

4/29/97
NOON 4:15 PM
Anytime
5/11/97
12:00-0.

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH
461-9933 313-2640

INDEXED
04-355075

P 58074

A 41973

DISTRICT _____

DATE 4-8-97

DATE SYSTEM APPROVED 5-1-97

INSPECTOR KM

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL X ALTER _____

ADDRESS 4410 Salem Bottom Road Westminster, MD 21157 PHONE 875-4197

SUBDIVISION Choi Property LOT 10 ROAD 3347 Danmark Drive

PROPERTY OWNER Jacobsen 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 3 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 - Place the distribution box 165 feet down the left lot line and 60 feet off this same lot line as seen when facing the lot from Danmark Drive. Run trenches on contour towards the left lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 4/29/97 DKS

PLANS APPROVED BY Donna K. Soe DATE 07/07/95

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

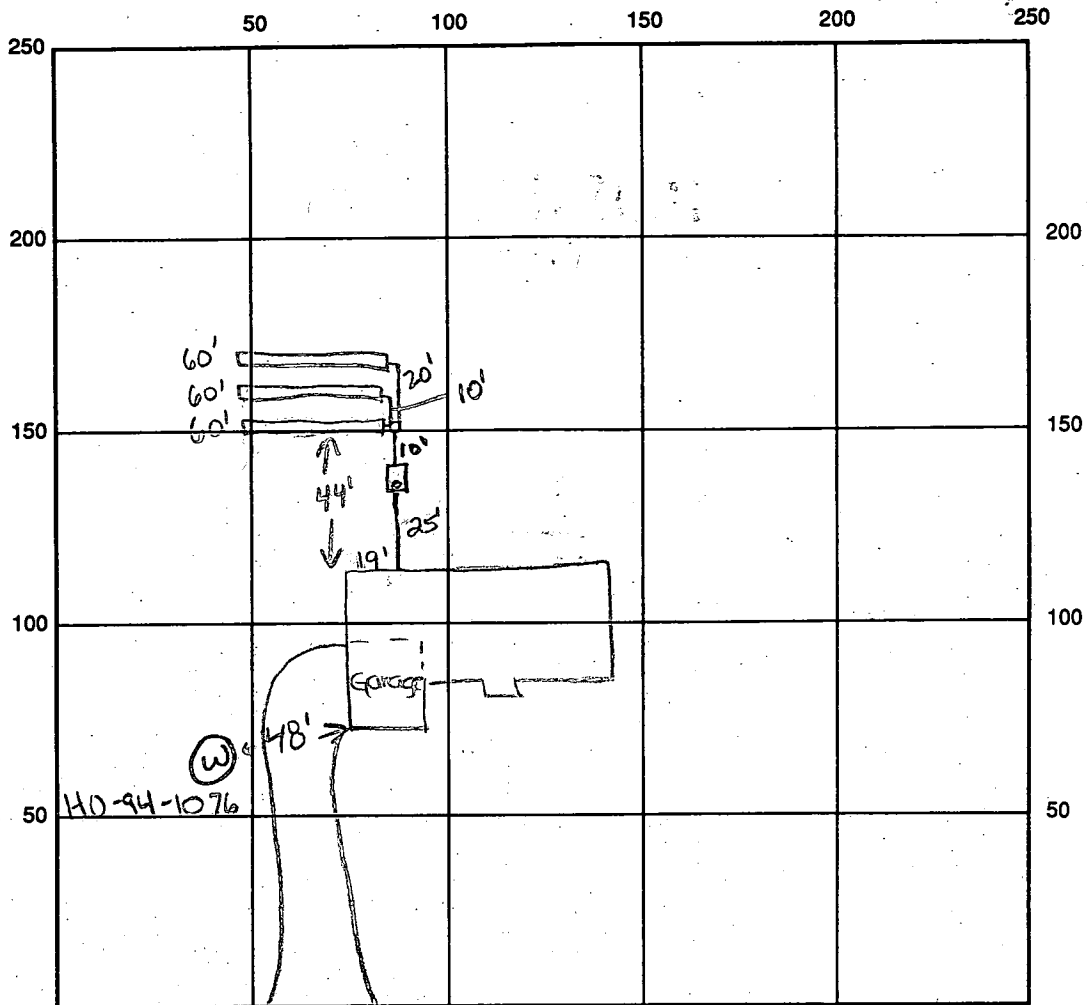
PERMIT VOID AFTER TWO YEARS

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 41973



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Danmark Drive

SEPTIC TANK LEVEL ok, 1250 gallons CLEANOUTS 1 on tank

DISTRIBUTION BOX LEVEL ok, baffle in

DRAIN FIELD/TITLE DEPTH 7 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 60x3 FT. → 180

NUMBER OF TRENCHES 3 ONE SIDEWALL BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER / FT. EFFECTIVE DEPTH BELOW INLET / FT.

ABSORBENT AREA / SQ. FT.

REMARKS: 4/29/97 tank set. no other work done. DKS

4-30-97 house connection made, no other work done KM (am)

4-30-97 (pm) ok to continue KM

5-1-97 ok to cover all work KM

DATE SYSTEM APPROVED 5-1-97

INSPECTOR Kimberly Maisto

APPLICATION

PERCOLATION TESTING

A 41973

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE. 461-9933

DISTRICT 4TH

DATE March 10, 1988

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 Sang Ho Company, Inc.

ADDRESS 8106 Cooper Street, Alexandria, Va. 22309 PHONE (703) 239-7541

PROSPECTIVE BUYER Unknown

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Orsi Property LOT NO. 10

ROAD AND DESCRIPTION North side of Burrowswood Rd., 1890' East of Hedges Road.

TAX MAP 14 PARCEL # 106

SIZE OF LOT 3.00 Acre Minimum TYPE BLDG S.F.O.
(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.

Dennis M. Bush
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

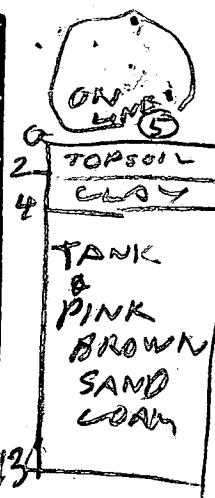
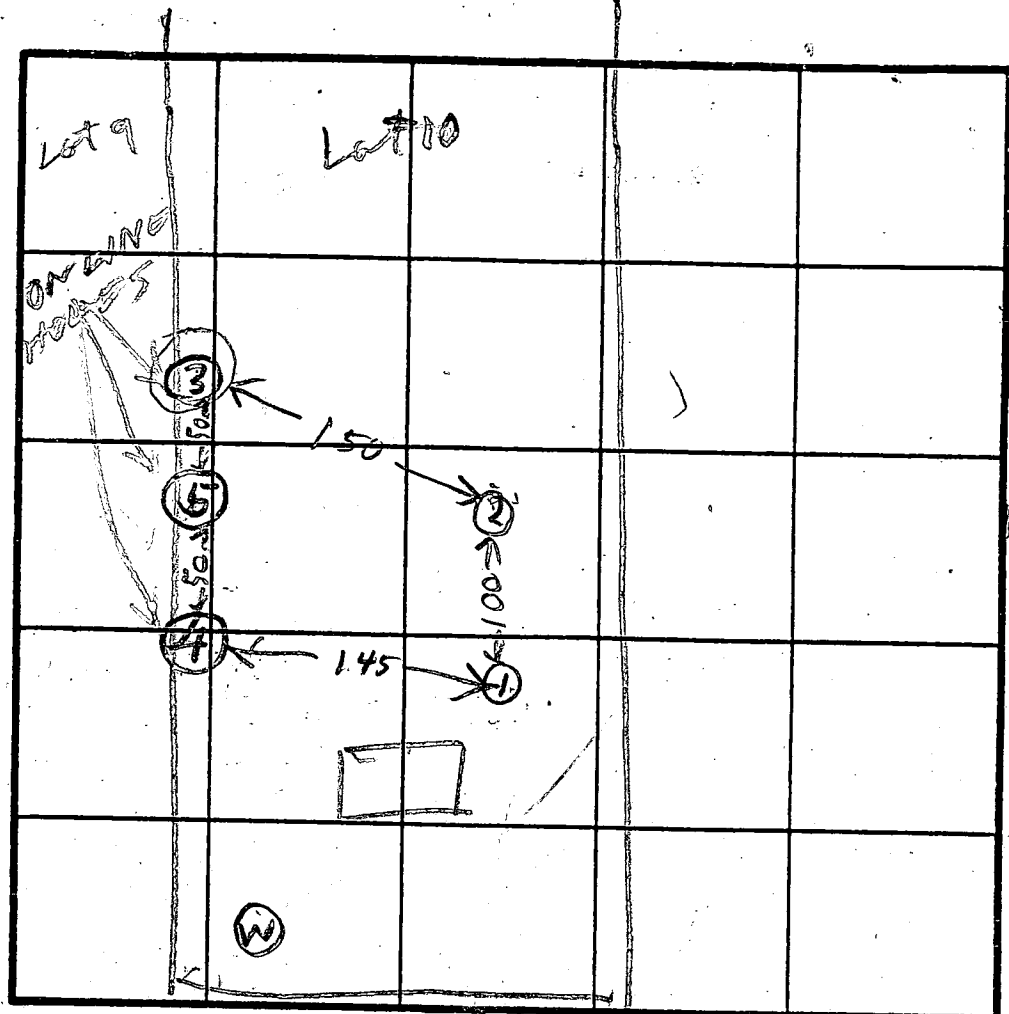
HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

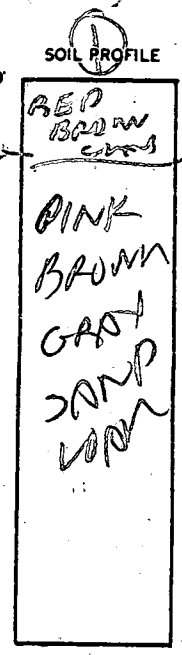
HD-216

THIS IS NOT A PERMIT

LOT 10
A 41973



1.5 MIN
180 #/BR
INLET 3'
BOTTOM 7'



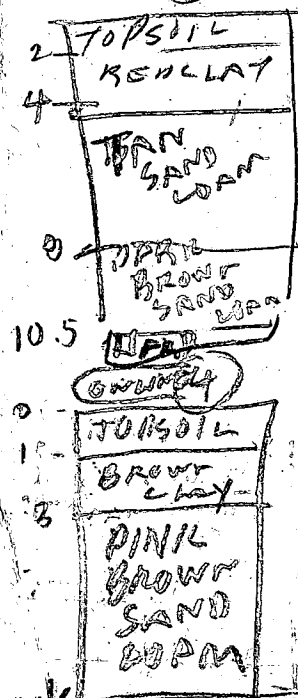
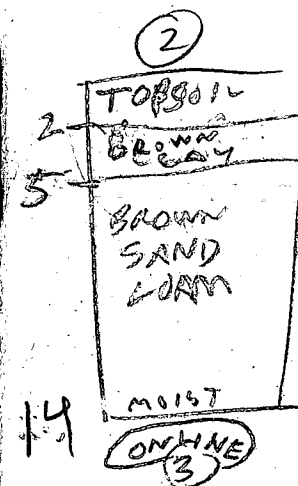
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DANMARK RD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/30/88	1D	6	1126	1130	1130	1134	4
	1S	3	1127	1130	1130	1134	4
8/30/88	IV	11	OK				
	2S	5.5	1030	1042	1042	1052	20
	2V	14	OK				
	(3.5)	4.5	1146	1218	1218	1252	39
8/30/88	(2)	10.5	UNSAT		CLAY		
	(4)	11.5	OK				
	5-S	4.5	126	124	124	127	3
	5-V	13	OK				

52
13
39

ON LINE HOLE LOT 9 & 10
ON LINE LOT 9 & 10
ON LINE HOLE



REMARKS All Holes Dug different from Surveyor Stake but Hole 1 in Close

TYPE OF SOIL

TESTED BY B. Hodge

ALSO PRESENT WILLY SKIP OF F-40K

C 1 **6393** SEQUENCE NO. (MDE USE ONLY)

**STATE OF MARYLAND
WELL COMPLETION REPORT**

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER **A41973**

ST/CO USE ONLY
DATE RECEIVED
MM **3** DP **25** YR **97**
8 13

DATE WELL COMPLETED
MM **3** DD **20** YY **97**
15 20
Depth of Well
22 **240** 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HO-94-1076
28 29 30 31 32 33 34 35 36 37

OWNER Jacobsen Homes
STREET OR RFD Danmark Drive TOWN Glenwood
SUBDIVISION Choi Property SECTION _____ LOT 10

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 Stone	0	63	
Gray Mica Rock	63	240	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) **Y** **N**
TYPE OF GROUTING MATERIAL (Circle one)
CEMENT **CM** BENTONITE CLAY **BC**
NO. OF BAGS **21** NO. OF POUNDS **1974**
GALLONS OF WATER **126**
DEPTH OF GROUT SEAL (to nearest foot)
from **0** ft. to **60** 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
St **6** **67**
Nominal diameter top (main) casing (nearest inch)!
Total depth of main casing (nearest foot)

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

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

C 2 DEPTH (nearest ft.)
1 2
E **HO** **65** **240**
A 8 9 11 15 17 21
C 23 24 26 30 32 36
S 3
R 38 39 41 45 47 51
E
E 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**
PUMPING RATE (gal. per min.) **5**
METHOD USED TO MEASURE PUMPING RATE **Bucket**
WATER LEVEL (distance from land surface)
BEFORE PUMPING **48** ft.
WHEN PUMPING **111** 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 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
- below } **2** (nearest foot)

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)

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.: **MSD024**
DRILLERS SIGNATURE Joseph R. Maysne
LIC. NO.: **MSD024**
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

5/11/97 AM
4103132648

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3525-W Ellicott Mills Drive
Ellicott City, MD, 21043
461-9933

5697
P.A. 4.5' below grade
Casing 1.5' above grade
has 2 piece watertight cap
(KM)

410 313 2640

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
Replacement

Receipt # _____
Date _____

Name of Installer Ben Lewis Inc

Telephone 3014883900 X139

License Number 11202

Certified Well Pump Installer _____ Well Driller _____ Registered Plumber

Name of Property Owner Openheim Trust Co Telephone _____

Subdivision Buckport Lot # 10 Well Tag # _____

Site Address 3347 Darnall Dr

Pump

- 1. Type
 - a. Deep well jet _____
 - b. Shallow well jet _____
 - c. Submersible
- 2. Make Grundfos 55505402
- 3. Model # _____
- 4. Capacity _____ 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 _____

Motor

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

Pitless Adapter

- 1. Make _____
- 2. Model # _____
- 3. Depth 42"

Tank

- 1. Capacity 180
- 2. Pressure relief valve? yes

Piping

- 1. Type 160 BK
- 2. Size 1"
- 3. NSF and/or BOCA Code approved yes
- 4. Depth of supply line _____

Well data

- 1. Depth 238 ft.
- 2. Yield _____ GPM
- 3. Static water level 30' ft.
- 4. Will water supply be disinfected by installer? yes

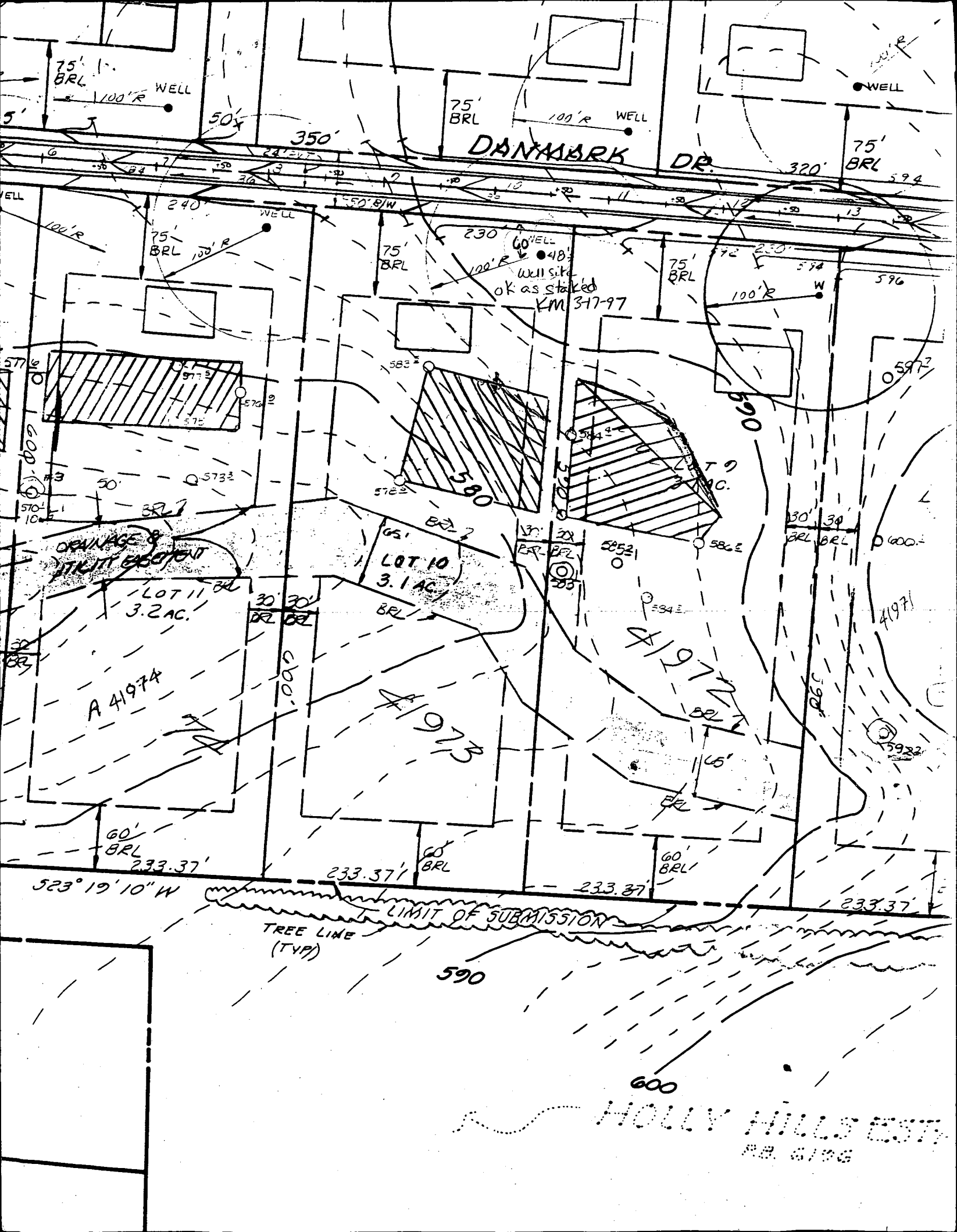
I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

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

Signature of Applicant: [Signature]

Date: 5/11/97

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



DANMARK DR.

50' B/W

WELL
48'
Well site
OK as stacked
KM 317-97

LOT 10
3.1 AC

LOT 11
3.2 AC

LIMIT OF SUBMISSION

TREE LINE
(TYP)

HOLLY HILLS EST.
PB. 6106

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

SIGNATURE OF ENGINEER _____ DATE _____

DEVELOPER'S CERTIFICATE

I/AWE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

SIGNATURE OF DEVELOPER _____ DATE _____

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

U.S. SOIL CONSERVATION DISTRICT _____ DATE _____

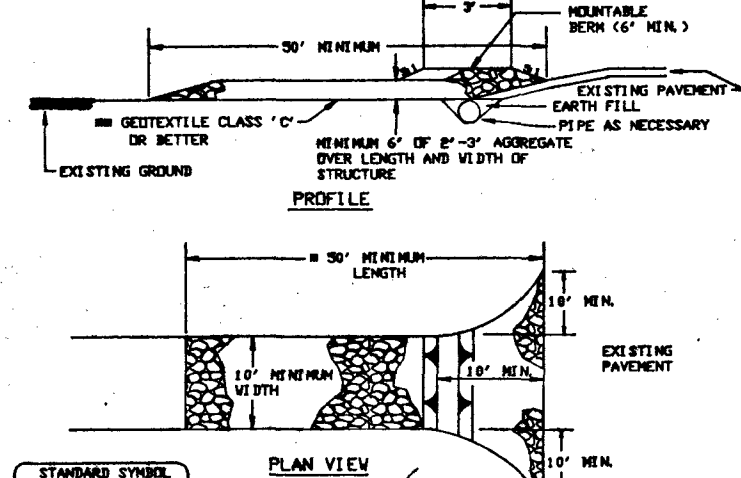
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

DISTRICT HOWARD SOIL CONSERVATION DIST. _____ DATE _____

SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. I, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 51), 500 (SEC. 54), TEMPORARY SEEDING (SEC. 50), AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 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.
- SITE ANALYSIS:

TOTAL AREA OF SITE	3.173	ACRES
AREA DISTURBED	0.25	ACRES
AREA TO BE ROOFED OR PAVED	0.06	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.10	ACRES
TOTAL CUT	0.00	CU.YDS.
TOTAL FILL	0.00	CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY, BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE CONSTRUCTED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



- Length - minimum of 30' (300' for straight road ends).
- Width - 10' minimum, should be placed at the side of road to provide a turning radius.
- Geotextile fabric (F11 or F15) shall be placed over the existing ground prior to placing stone. With the approval of the inspector, may not require a fabric F11 or F15 to be used.
- Stone - crushed aggregate (2" to 3") or natural rock or recycled concrete equivalent shall be placed at least 6' deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or from the construction entrance shall be piped through the entrance, and shall be piped to the drainage. Pipe installed through the stabilized construction entrance shall be protected with a portable berm of 3" to 4" aggregate or 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction or traffic enters or leaves a construction site. When a stabilized entrance is to be used, the entire length of the stabilized construction entrance.

STABILIZED CONSTRUCTION ENTRANCE - 2

NOT TO SCALE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 481-2855

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN.
- PERFORM NECESSARY GRADING AND STABILIZE THE SITE.
- AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDING PREPARATION

LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS

APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (1/4 LBS./1000 SQ. FT.)

SEEDING

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS (0.7 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 500.

MULCHING

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (6 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1986 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

PERMANENT SEEDING NOTES

ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:

SEEDING PREPARATION

LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS

APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (0.4 LBS./1000 SQ.FT.) BEFORE SEEDING HARROW OR DISC. INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ.FT.) OF 10-20-20 FERTILIZER.

SEEDING

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. PER ACRE (0.4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROJECT SITE BY OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 500; OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDING.

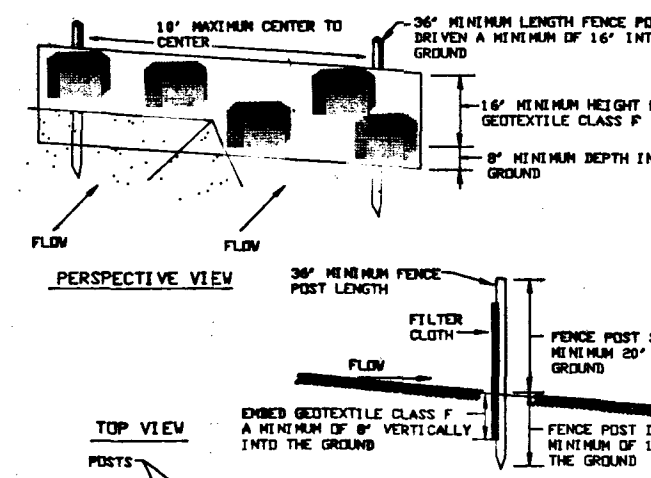
MULCHING

APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FEET OR HIGHER USE 340 GALLONS PER ACRE (6 GAL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE

INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

FOR PUBLIC PONDS SUBSTITUTE CHEMICAL CROWWEEDER AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

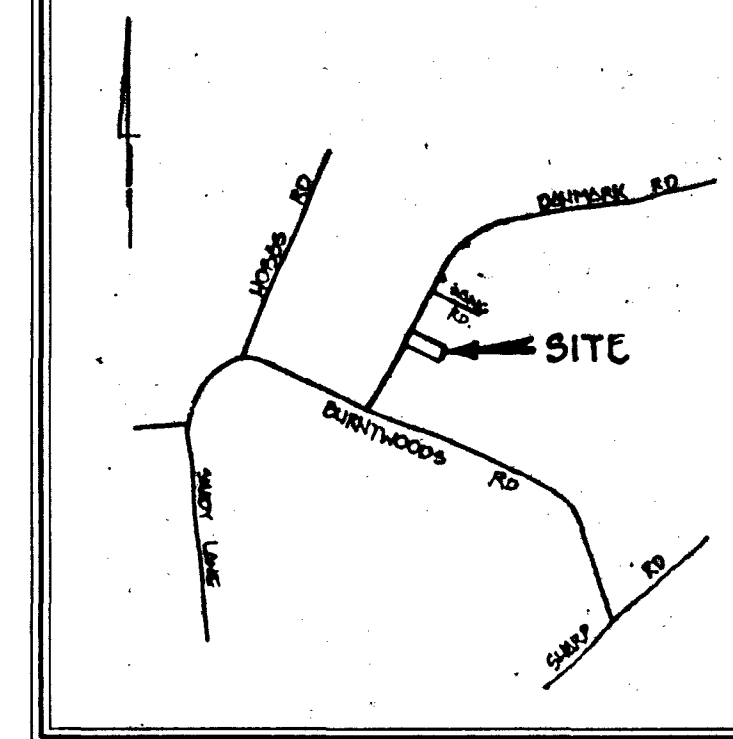
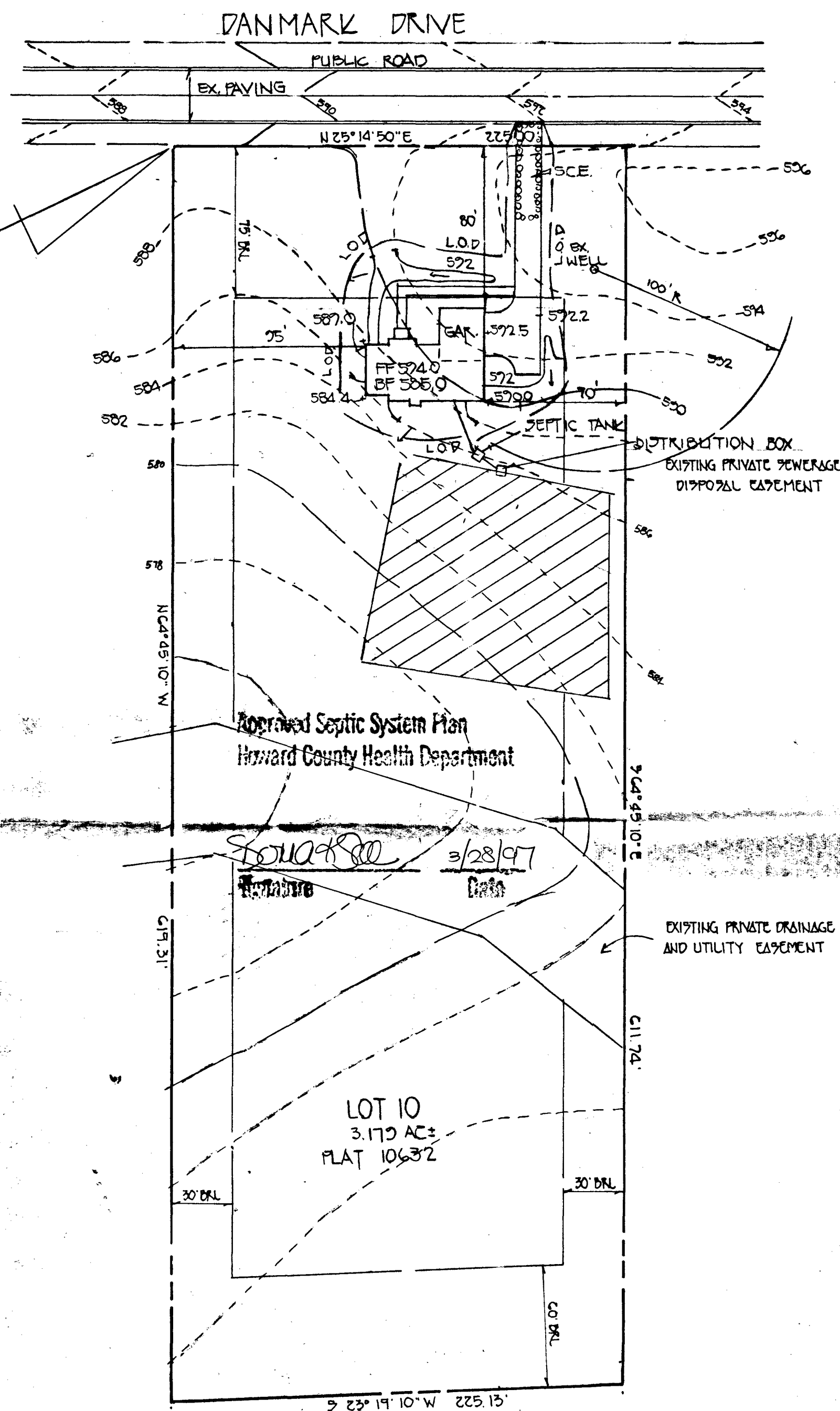


- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (40 minimum) or 1 3/4" x 1 3/4" square (40 minimum) round and shall be of annual quality hardwood. Steel posts will be standard T or U section with a minimum of 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	30 lbs/in (min.)	Tests: MSHT 209
Tensile Modulus	20 lbs/in (min.)	Tests: MSHT 209
Flow Rate	0.2 gal/45" min (max.)	Tests: MSHT 202
Filtering Efficiency	75% (min.)	Tests: MSHT 202
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and repaired when damage occurs or when sediment accumulation reaches 50% of the fabric height.

SILT FENCE

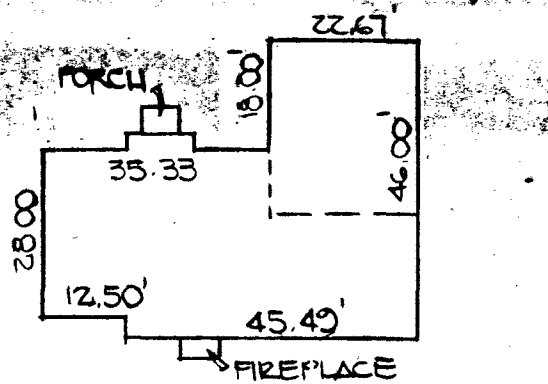
NOT TO SCALE



VICINITY MAP
SCALE: 1"=2000'

GENERAL NOTES

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
- PROPOSED 1500 GALLON SEPTIC TANK.
- A. FIRST FLOOR ELEVATION 504.0
- B. BASEMENT ELEVATION 503.6
- C. INVERT OF SEPTIC SYSTEM AT HOUSE 503.6
- D. INVERT IN AT SEPTIC TANK 503.0
- E. INVERT OUT AT SEPTIC TANK 502.7
- F. PROPOSED GRADE OVER SEPTIC TANK 502.5
- G. INVERT AT DISTRIBUTION BOX 502.5
- H. EXISTING GROUND OVER DISTRIBUTION BOX 506.0
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.



MILLER RESIDENCE
NOT TO SCALE

PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT

CHOI PROPERTY

LOT 10
TAX MAP 14- EX. ZONING - R PARCEL 10G
4TH ELECTION DIST. HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: MARCH 20, 1997