

5-22-96 Following W 2

No House Connection

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

# INDEXED

P 56545 A

A 41994

DISTRICT 4

DATE 4-8-96

DATE SYSTEM APPROVED 5/22/96

INSPECTOR [Signature]

#### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXXXX~~ 313-2640

South Carroll Backhoe, Inc.

IS PERMITTED TO INSTALL  ALTER

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

SUBDIVISION Choi Property LOT 31 ROAD 3252 Danmark Drive

PROPERTY OWNER Jerry & Lisa Geisler

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 2.5 feet below original grade. Bottom maximum depth 4.5 feet below original grade. Effective area begins at 2.5 feet below original grade. 2.0 feet of stone below distribution pipe.

LOCATION - Place the distribution box 460 feet down the right lot line and 50 feet off this same lot line as seen when facing the lot from Danmark Drive. Run trenches on contour in both directions.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. ok/ew

BLOG. PERMIT SIGNED

~~NOT RETURNED~~ 9-25-97

Serial # B010 P105

deck

PLANS APPROVED BY Donna K. Soe

DATE 3/30/95

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

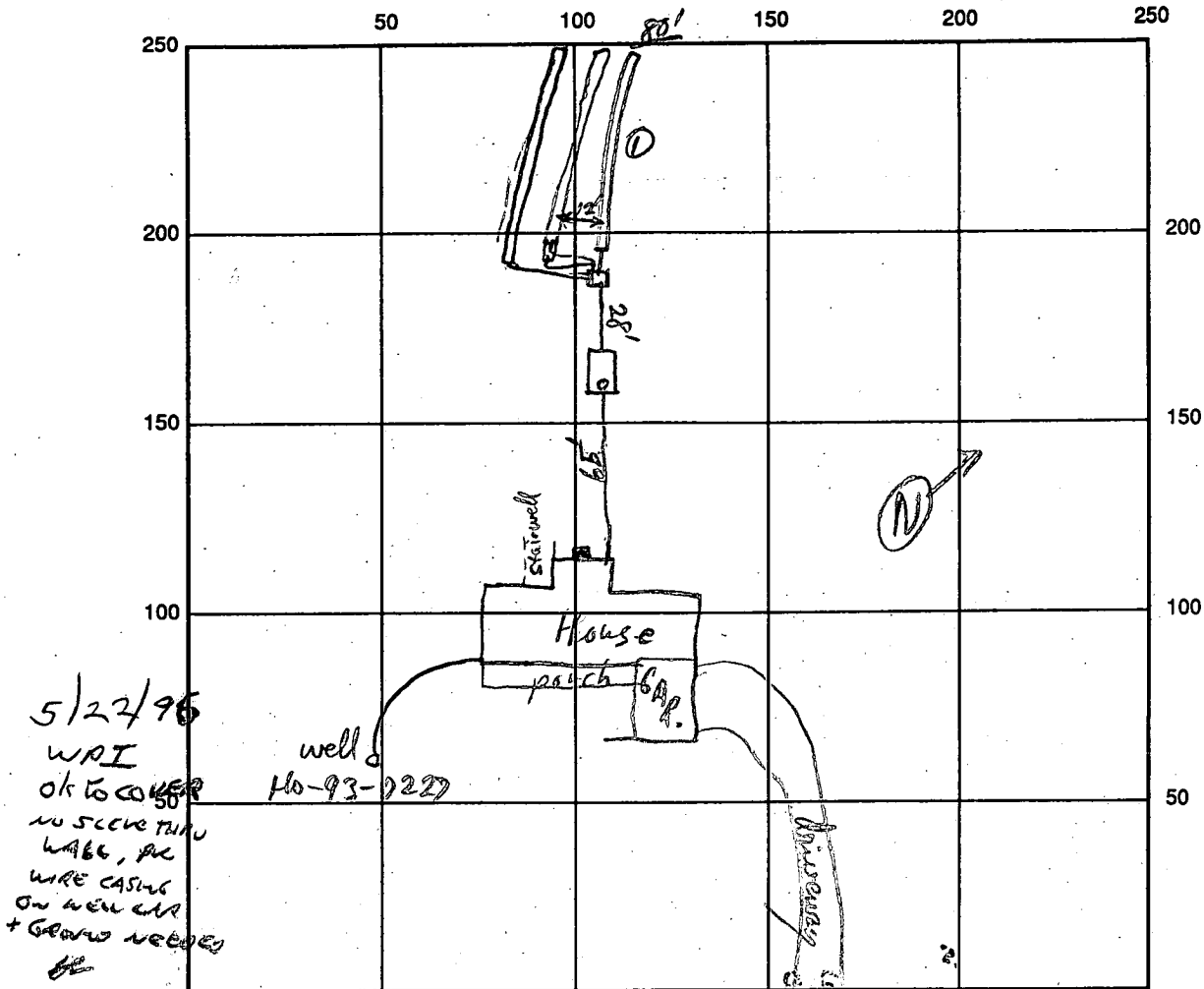
PERMIT VOID AFTER TWO YEARS

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 41994



Dan Mark Rd INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 1500 gal ✓ CLEANOUTS ST. ✓

DISTRIBUTION BOX LEVEL ✓ BAFLE IN

DRAIN FIELD/TITLE DEPTH 4 1/2 FT. TRENCH WIDTH 3 FT. INLET DEPTH 2 1/2 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 80/80/80 FT. = 240'

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA \_\_\_\_\_ SQ. FT.

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

ABSORBENT AREA \_\_\_\_\_ SQ. FT.

REMARKS: OK to cover supply line & ST to Dist Box. OK to cover first trench, leave ends of other 2 trenches open for later inspection. All 5/22/96

→ No House Connection, 5/22/96 FINAL TRENCHES COMPLETE

OK TO COVER EXCEPT HOUSE CONNECTION & 5/22/96

HOUSE CONNECTION OK. JL

DATE SYSTEM APPROVED 5/22/96 INSPECTOR W.H. Jones

# APPLICATION

PERCOLATION TESTING

A 41994

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 8100 Cooper Street, Alexandria, Va. 22309 PHONE (703) 239-7541

PROSPECTIVE BUYER Unknown

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Choi Property LOT NO. 31 / 31

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

TAX MAP 14 PARCEL # 106

SIZE OF LOT 3.00 Acre Minimum TYPE BLDG \_\_\_\_\_

BLDG. PERMIT SIGNED  
**AND RETURNED 3-20-96**  
Serial # 63768  
S.F.O. - 4 B Rms  
(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. Rook  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

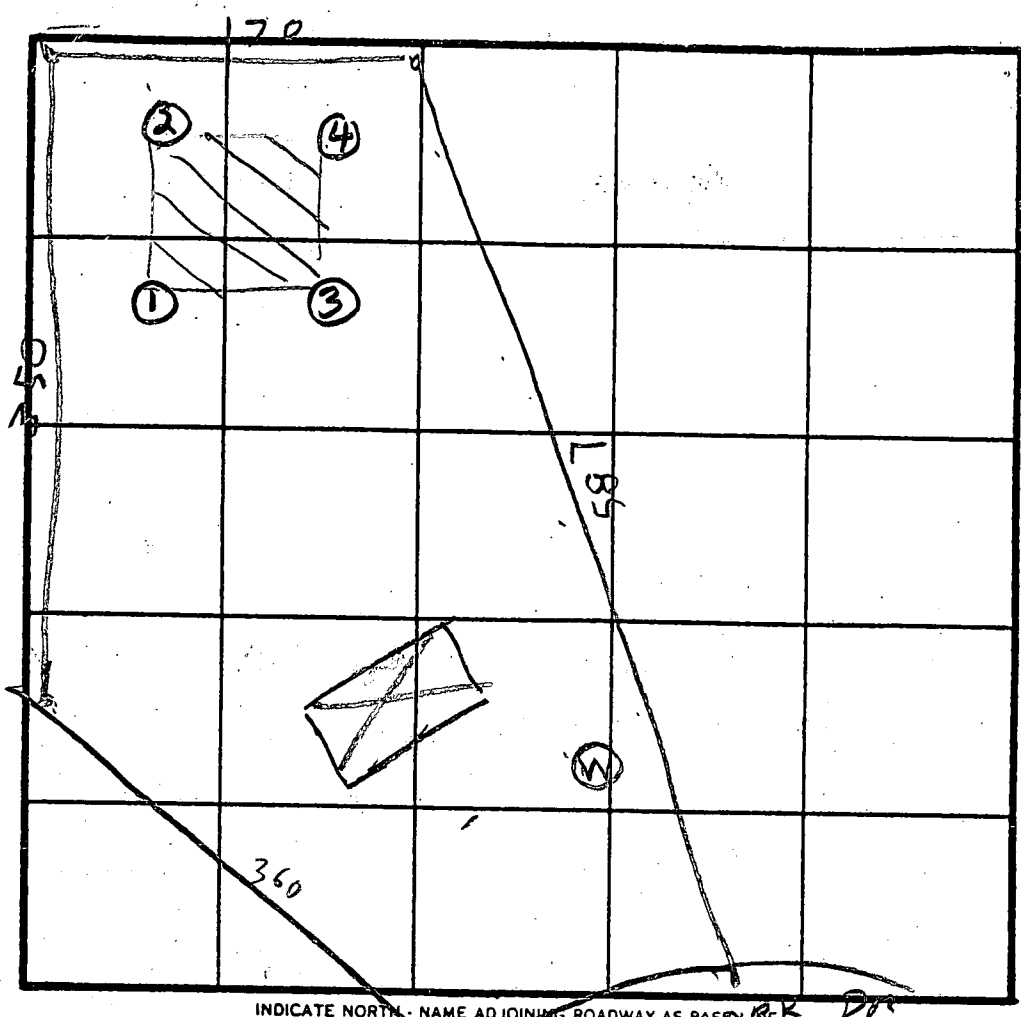
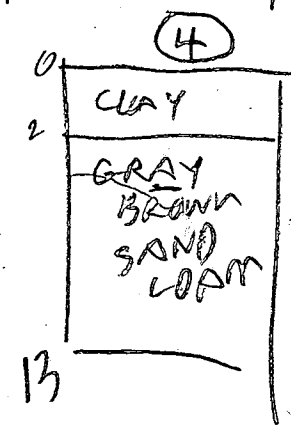
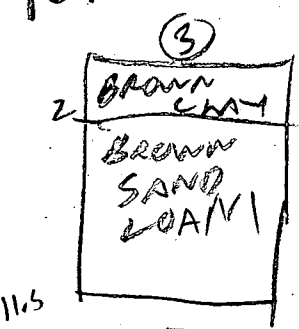
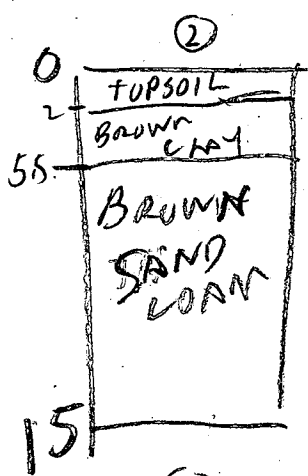
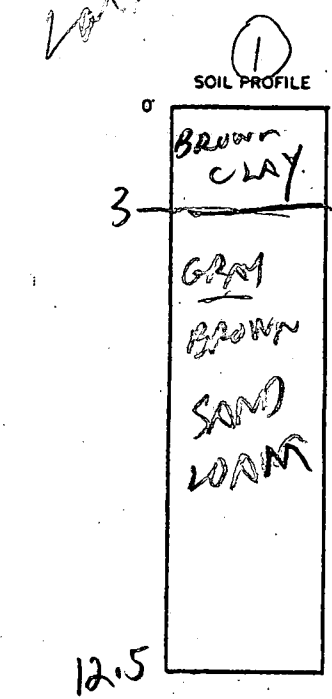
HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

HD-216

# THIS IS NOT A PERMIT

Lot 31  
A 41994  
Lot next 28



X 3 MIN  
180 R/B  
INLET 2 1/2  
BOTTOM 4'  
SHALLOW SYSTEM

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
9/14/88	1G	4	933	935	935	938	2
	1V	12.5	OK				
	2S	1	941	943	943	946	3
	2V	15	OK				
	3S	3.5	945	951	951	953	2
	3V	6.5	945	951	951	953	2
	4V	11.5	OK				
		13	OK				

REMARKS: Holes Dug Per Survey for Test Plot #1 +  
TYPE OF SOIL: \_\_\_\_\_  
TESTED BY: R. HODGES  
ALSO PRESENT: WOODRISKIP OR FROCK

C1 0168 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER A 41994

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

8 13

012596

22 200 26 (TO NEAREST FOOT)

HC 93 0227

OWNER JACOBSEN HOMES STREET OR RFD DANMARK DRIVE SUBDIVISION CHOI PROPERTY SECTION TOWN GLENWOOD LOT 31

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 (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes handwritten entries: Sand (0-44), Gray Mica Rock (44-200).

GROUTING RECORD (yes) (no) WELL HAS BEEN GROUTED (Y) (N)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 22 NO. OF POUNDS 2068

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

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch)! Total depth of main casing (nearest foot) SH 6 48

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 BRONZE), PL (PLASTIC), HO (OPEN HOLE), OT (OTHER)

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.

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 24

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 27

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

DEPTH (nearest ft.) H0 46 200

Table with columns: A, C, H, S, C, R, E, N and rows for depth measurements.

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

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

C 3 PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 20

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface) BEFORE PUMPING 37 ft.

WHEN PUMPING 37 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

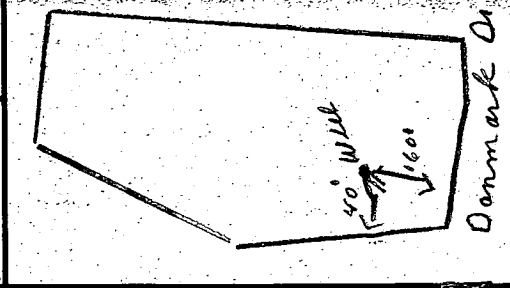
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) (+) above (-) below LAND SURFACE 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)





Lab No. Date Received

C303150 425 8

WATER ANALYSIS

Do not write above this line.

S  
A  
M  
P  
L  
E  
I  
D

Bottle Number HO-2608 Name JACOBSEN HOMES County HOWARD County Code 13

Source PRIVATE WELL CHOI PROPERTY / LOT 31 Date Category Code 4F

Collected: Date 1/25/96 Time 10:10 AM Collector & Phone K. SYKES (410) 313-2640 Submitter Code

CHECK (one per box)

<input checked="" type="checkbox"/> Drinking Water	<input type="checkbox"/> Community	<input checked="" type="checkbox"/> Source (raw water)	<input type="checkbox"/> Emergency
<input type="checkbox"/> Landfill	<input type="checkbox"/> Non-community	<input type="checkbox"/> Distribution (treated)	<input checked="" type="checkbox"/> Routine
<input type="checkbox"/> Stream	<input type="checkbox"/> Private	<input type="checkbox"/> MCL	<input type="checkbox"/> Recheck
<input type="checkbox"/> Other	<input type="checkbox"/> Other		<input type="checkbox"/> Special

Federal Project 3

F  
I  
E  
L  
D

Plant No.  Sampling Station  Preservation: Iced  Acid  Type of Acid H2SO4

pH  Chlorine: Free  Total  Specific Conductance

Notes to Lab/Remarks:

TESTS	CODES	ERROR CODE	G/L	RESULTS	DATE ANALYZED	ANALYST INITIALS
Alkalinity (Total)	00410					
Alkalinity, Ca-CO <sub>3</sub> Sat.	74023					
Ammonia - N	00608					
Chloride	00940					
Color*	00081					
Conductance*, spec.	00095					
Dissolved Solids	70300					
Hardness	00900					
Fluoride	00951					
Nitrite, N	00615					
Nitrate - Nitrate, N	00630			4.5	01-26-96	BK
pH*, Ca-CO <sub>3</sub> SAT	70311					
Sulfate	00945					
Total Solids	00500					
Turbidity*	00076					
Other:						

\* Results reported in Units, all others in milligrams per liter (ppm)

Number of Tests Requested 01

Section Chief Asoka I. Katumuluwa

Date Reported JAN 29 1996

96 FEB -5 AM 8:19

Partial List of Submitter Codes

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
1-30	County Codes	53	Chesapeake Bay & Special Projects
41	Individual Septics & Wells Program	59	Standard & Certification Program
42	Water Supply Program	63	Division of Food Control
43	Recreational Sanitation & Migrant Camps, DHMH	64	Engineering & Maintenance, DHMH
44	STP Inspection Division	65	Division of Community Services
45	Hazardous & Solid Waste Admin. (Landfill Samples)	66	Office of Attorney General
46	Pre-Treatment Enforcement Division	67	Dept. of General Services
48	Licensing and Certification, DHMH	77	E.P.A.
52	Water Quality Monitoring Program	91	State Highway Administration
		96	L.U.S.T./U.S.T./CERCLA
		99	Unknown

Codes for Federally Funded Projects (leave box blank if not federal)

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
S	Safe Drinking Water Act (SDWA)	N	National Pollution Discharge Elimination System (NPDES)
R	Resource Conservation and Recovery Act (RCRA)	M	Miscellaneous (Other)

Partial List of Data Category Codes

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
1F	Sediment Samples	2F	Innovative Disposal
2A	Industrial Effluents/Compliance	5A	Solid Waste/Landfills
2B	Industrial Grab	5B	Kidney Dialysis
2C	Municipal Compliance	5C	Commercial Bottled Waters
2D	Municipal Grab	5D	Misc. Wastewaters
4A	MCL Surveys	5E	Misc. River/Stream
4B	Routine Monitoring & Other Communities	5F	Misc. Drinking Water
4D	Potable - County Community	5G	Swimming Pools
4E	Potable - Non Community	5H	Marine or Estuarine Natural Bathing Areas
4F	Potable - Private Wells		
4G	Real Estate Trans./Charge Samples		

Partial List of Error Codes

<u>Code</u>	<u>Description</u>	<u>Code</u>	<u>Description</u>
A	Laboratory Accident	J	Wrong sample type
C	Mechanical/Materials failure	RR	No sample received
D	Insufficient Sample	X	Improper preservation
E	Sample past holding time	LL	Mislabeled sample

LIMIT OF SUBM...

5

7

570

N041°39'30"E

564.74

41993

Failed 5.3  
hand bottom 11'

41992

all except highest  
thick gray material

41994

LOT 26  
3.5 AC.

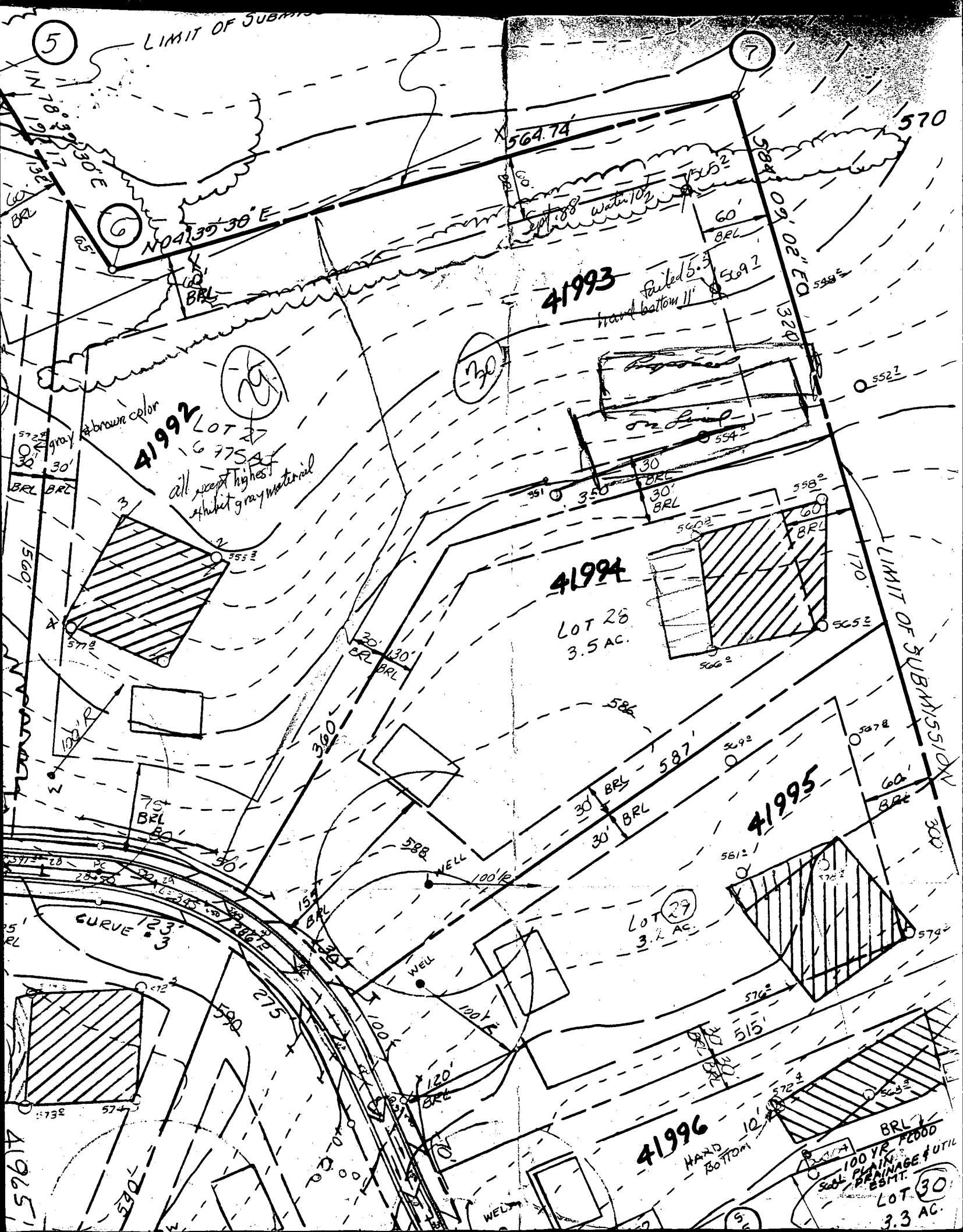
41995

LOT 27  
3.2 AC.

41996

HAND  
BOTTOM

100 YR. FLOOD  
SOIL PLAIN  
SEAL PLAINAGE UTIL  
ESMT.  
LOT 30  
3.3 AC.





**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/WE 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 \_\_\_\_\_

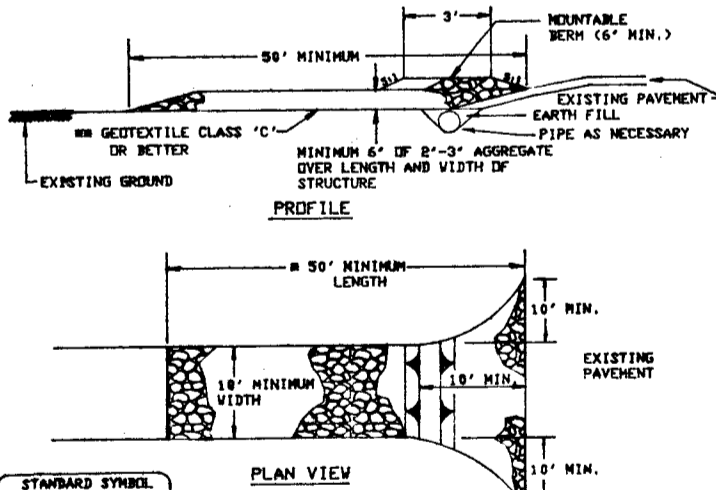
THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
APPROVED:

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, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (33-1855).
- 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. 1, 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. 50), 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	3.017	ACRES
AREA DISTURBED	0.79	ACRES
AREA TO BE ROOFED OR PAVED	0.12	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.17	ACRES
TOTAL CU		CU.YDS.
TOTAL FILL		CU.YDS.
- OFFSITE WASTE/BORROW AREA LOCATION: CU.YDS.
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING OR 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 BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



Construction Specifications

- Length - minimum of 50' (40' for single residence lots).
- Width - 18' minimum, should be placed at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2' to 3") or reclaimed 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 diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 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 traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

**STABILIZED CONSTRUCTION ENTRANCE - 2**

NOT TO SCALE

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

10000 SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855

**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. IF NOT PREVIOUSLY LOOSENED.

**SOIL AMENDMENTS**

APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (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./1000SQ.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 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 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 (4 LBS./1000 SQ.FT.) THROUGH SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 36-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (1.5 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./ACRE (1.4 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 SOD; OPTION (3) - SEED WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDER.

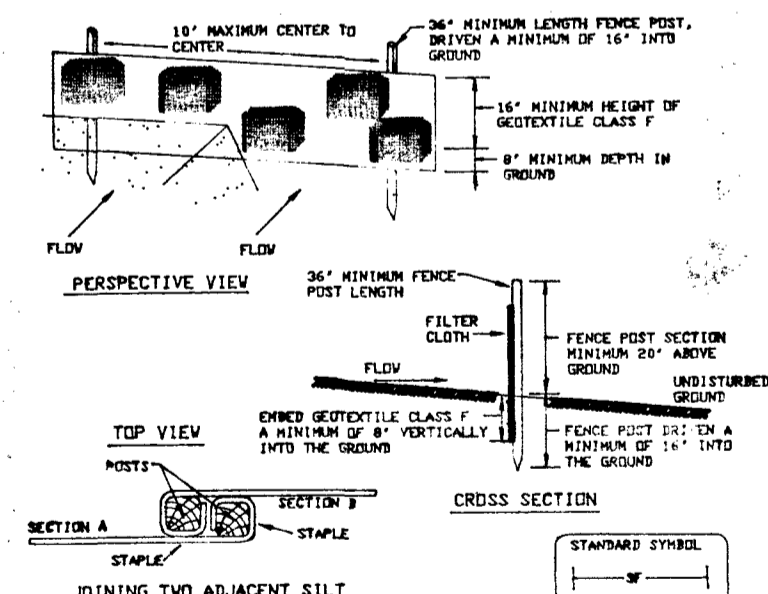
**MULCHING**

APPLY 1 1/2 TO 2 TONS PER ACRE (80 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE**

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

- FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWMETCH 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.



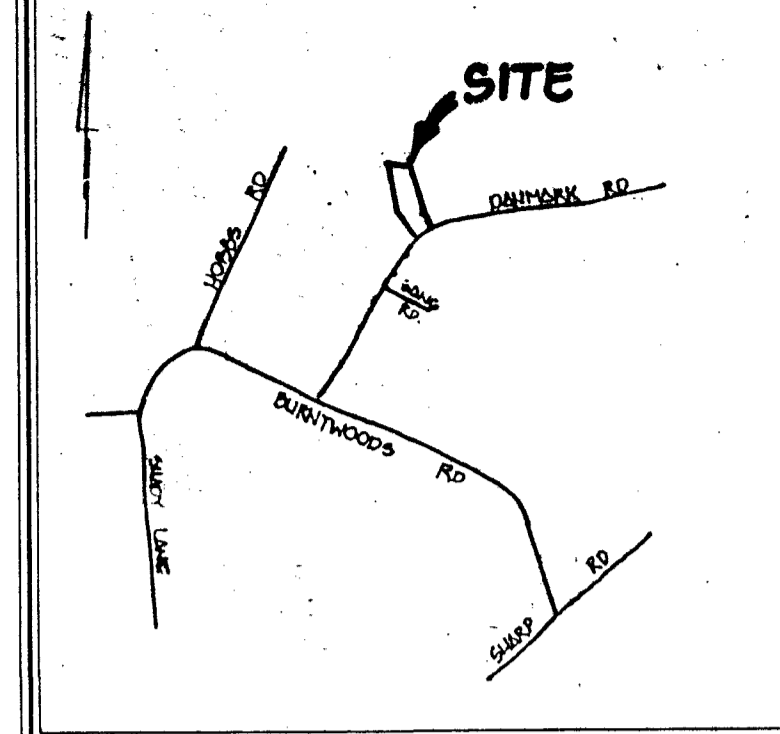
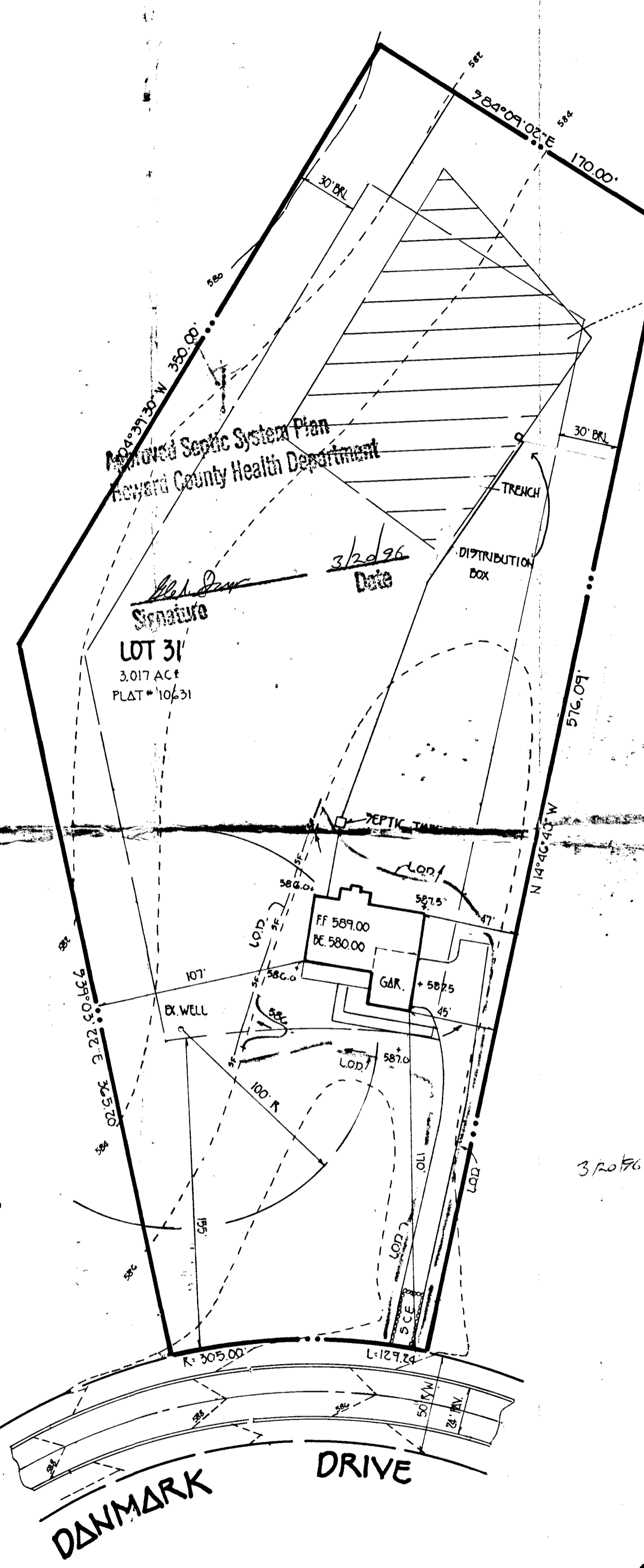
Construction Specifications

- 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 (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 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	50 lbs/in (min.)	Test: MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 509
Flow Rate	0.3 gal ft <sup>2</sup> /minute (max.)	Test: MSMT 382
Filtering Efficiency	75% (min.)	Test: MSMT 382
- 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 maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

**SILT FENCE**

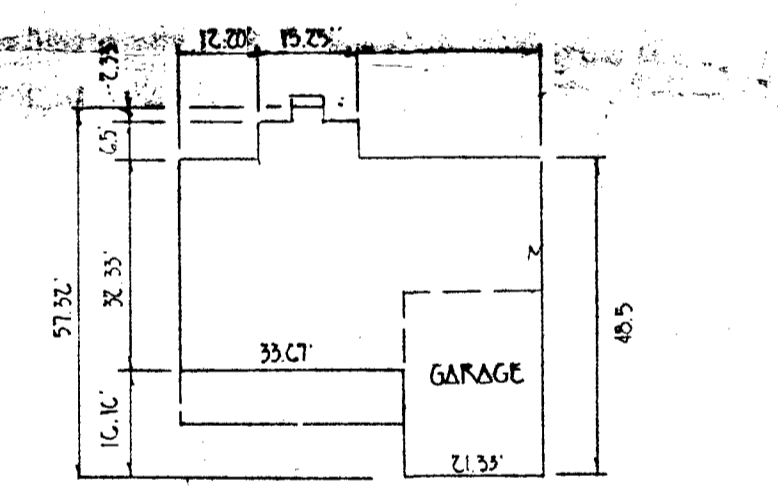
NOT TO SCALE



**VICINITY MAP**  
SCALE: 1"=2000'

**GENERAL NOTES**

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
  - PROPOSED 1500 GALLON SEPTIC TANK, 12.50 REQUIRED FOR BUILDING PERMIT
  - A. FIRST FLOOR ELEVATION: 589.00  
B. BASEMENT ELEVATION: 589.00  
C. INVERT OF SEPTIC SYSTEM AT HOUSE: 584.5 FT.  
D. INVERT IN AT SEPTIC TANK: 583.5 FT.  
E. INVERT OUT AT SEPTIC TANK: 587.5 FT.  
F. PROPOSED GRADE OVER SEPTIC TANK: 586.5 FT.  
G. INVERT AT DISTRIBUTION BOX: 586.0 FT.  
H. EXISTING GROUND OVER DISTRIBUTION BOX: 585.0 FT.
  - LENGTH OF TRENCH TO BE DETERMINED AT THE TIME OF SEPTIC PERMIT ISSUANCE.
  - CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  - THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.
- SKETCH INVERT TO BE HIGHER TO ACCOUNT FOR DISTRIBUTION BOX LOCATION



**PROPOSED RESIDENCE**  
NOT TO SCALE

PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT

**CHOI PROPERTY**

LOT 31  
EX. ZONING: R PARCEL 10G  
TAX MAP 14- 4TH ELECTION DIST. HOWARD COUNTY, MARYLAND  
SCALE: 1"=50' DATE: MARCH 4, 1996

ROVER MILL  
ESTATES RR 3516

(100) ONE HUNDRED YEAR  
FLOODPLAIN, DRAINAGE  
UTILITY EASEMENT (1.1814) DA

Lot 31 - Geisler's  
a/25/97  
Shown deck  
location will  
have no impact  
to existing well  
& septic OK to  
proceed  
ALM

