

Report 6/27/97
Initial inspection between 10:30-11:00
(Need to cover that part by Noon)
Then later inspection in afternoon (P)

7-7-97 WPI

04-355040

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE INDEXED

P 58518

A 41970

DISTRICT 4th

DATE 6-13-97

DATE SYSTEM APPROVED 6-27-97

INSPECTOR JW

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~857-8938X~~ 313-2640

South Carroll Backhoe, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS 4410 Salem Bottom Road, Westminster, Maryland 21157 PHONE 410-875-4197

SUBDIVISION Choi Property LOT 7 ROAD 3317 Danmark Drive

PROPERTY OWNER Jacobsen Homes, LLC CHARLIE & MARY RIALI

ADDRESS _____

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 135

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 distribution box 180 feet from front (230.00') lot line and 100 feet from right (596.60') lot line as viewed from Danmark Drive. Install trenches on contour toward right 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 5/1/97 DKS

PLANS APPROVED BY Glen Savage/Ronald J. Pinkley DATE 4/30/97

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.

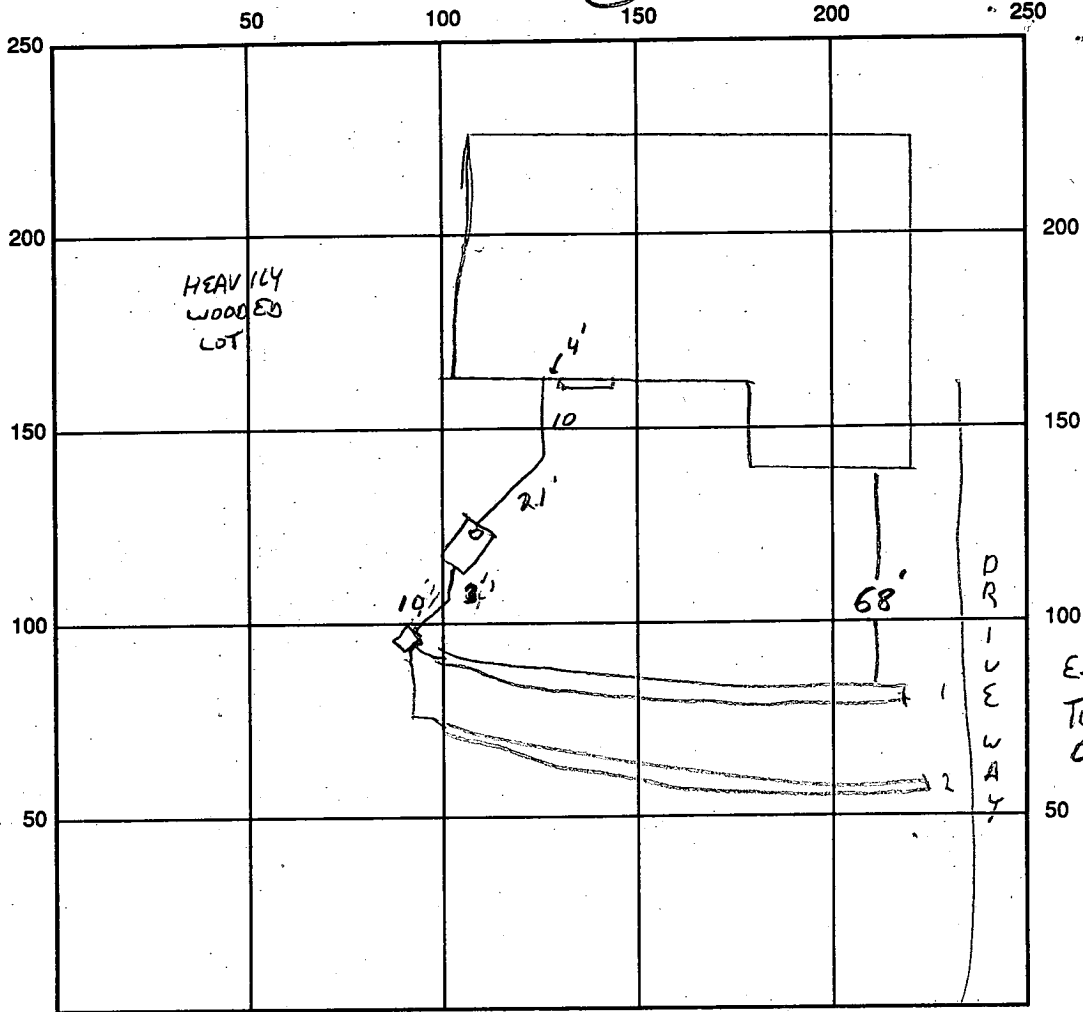
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

LOG. PERMIT SIGNED
AND RETURNED 4-14-99
Serial # 210 117300

dict

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

W HO-94-0246



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
DANMARK DRIVE

SEPTIC TANK LEVEL OK 1000 GAL CLEANOUTS 1 ON TANK

DISTRIBUTION BOX LEVEL OK

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

EFFECTIVE GRAVEL DEPTH 5 FT. TOTAL LENGTH 72 1/2 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 715 SQ. FT.

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

ABSORBENT AREA - SQ. FT.

REMARKS: 6/29/97 OK TO COVER TANK & TO HOUSE, CONTINUE TRENCHES

LEAVE CASE 10' OPEN TO BOTTOM OF TRENCH

7-7-97 P.A. 4.5' below grade, casing 1.0' above grade, needs 2 piece
Watertight cap, OK to cover (KM)

DATE SYSTEM APPROVED 6/27/97 INSPECTOR [Signature]

APPLICATION

PERCOLATION TESTING

A 41970

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

P _____

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. 7

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. Ruel
(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

B 1	5321	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER	H0-94-0296 <small>70 fill in this form completely 78</small>
------------	-------------	-------------------------------	---	---------------------	--

OWNER INFORMATION

Date Received (APA) **10 28 94**

JACOBSEN **CARK**
Last Name Owner First Name

8345 RESORVOIR RD
Street or RFD

FULTON **MD**
Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

HOWARD COUNTY

CHOI PROPERTY SUBDIVISION

SECTION **7** LOT **7**

GLEWOOD NEAREST TOWN

MILES FROM TOWN (enter 0 if in town) **1 MI**

DRILLER INFORMATION MSD/MGD/MWD

Joseph L. Wayne Driller's Name **24** License No. 80

Joseph L. Wayne Well Drilling Firm Name

5512 Ridge Rd. Mt. Airy, Md. 21771 Address

Joseph L. Wayne Signature **10/27/94** Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

NEAR WHAT ROAD **Danmark Dr.**

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

400 DISTANCE FROM ROAD ENTER FT OR MI **F 7**

TAX MAP: _____ BLK: _____ PARCEL _____

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500**

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)

T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER. HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME **A41970** COUNTY NO.

STATE SIGNATURE **Donald P. Riley** DATE ISSUED **11/14/99** INSERT S **41**

528000 NORTH GRID **0097000** EAST GRID

APPROXIMATE DEPTH OF WELL **260** FEET

APPROXIMATE DIAMETER OF WELL **6** 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 _____

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

7927 **528**

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

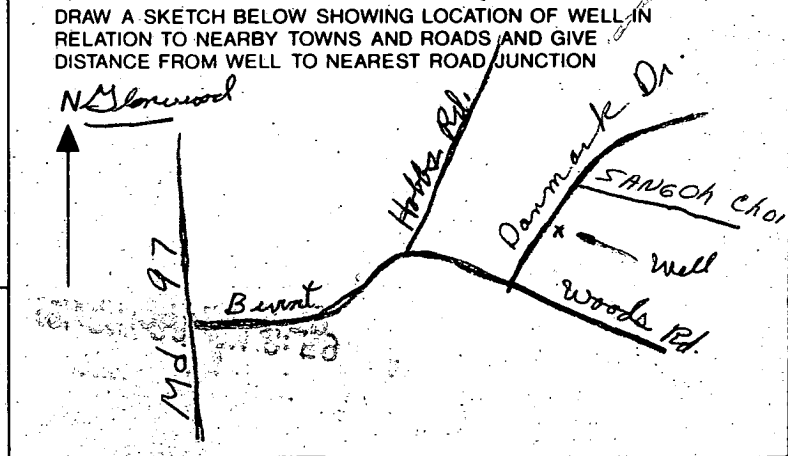
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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 - CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) _____



Not to be filled in by driller (OEP USE ONLY)

APPROX. PERMIT NUMBER **GAP**

FORCE **RA** WRITE INITIALS IN BOX PERMIT No. **H0-94-0296**

C1 5910

SEQUENCE NO. (DENV 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)

COUNTY NUMBER A41970

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE RECEIVED grid

DATE WELL COMPLETED 120194

DEPTH OF WELL 205

PERMIT NO. H0-94-0246

OWNER: Jacobsen (last name), Carl (first name); STREET OR RFD: Danmark Dr; TOWN: Glenwood; SUBDIVISION: Choi Property; SECTION: ; LOT: 7

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 entries for SAND (0-51) and GRAYMICA Rock (51-205).

GROUTING RECORD: WELL HAS BEEN GROUTED (Y); TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC); NO. OF BAGS: 15; NO. OF POUNDS: 7410; GALLONS OF WATER: 90; DEPTH OF GROUT SEAL: from 0 to 35 ft.

CASING RECORD: casing types insert appropriate code below. MAIN CASING TYPE: ST (STEEL), 6 inch diameter, 54 feet total depth.

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

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

IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY WHERE SATURATED FRACTURES WERE OBSERVED. WELL HYDROFRACTURED: YES (Y), NO (N).

CIRCLE APPROPRIATE LETTER: A (WELL ABANDONED AND SEALED), 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...

DRILLERS IDENT. NO. 24; DRILLERS SIGNATURE: Joseph Mayne

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

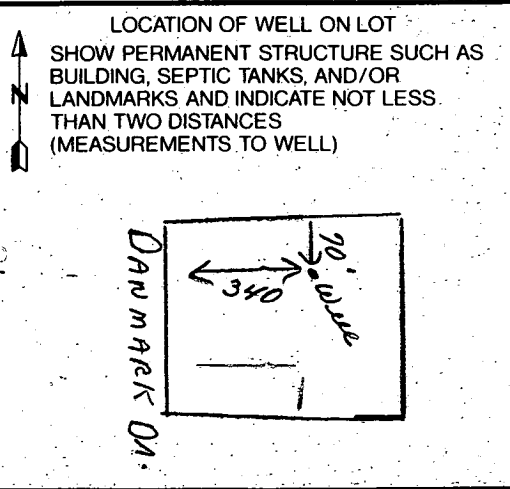
SCREEN RECORD (continued): E A C H S C R E E N DEPTH (nearest ft.) H0 53 205

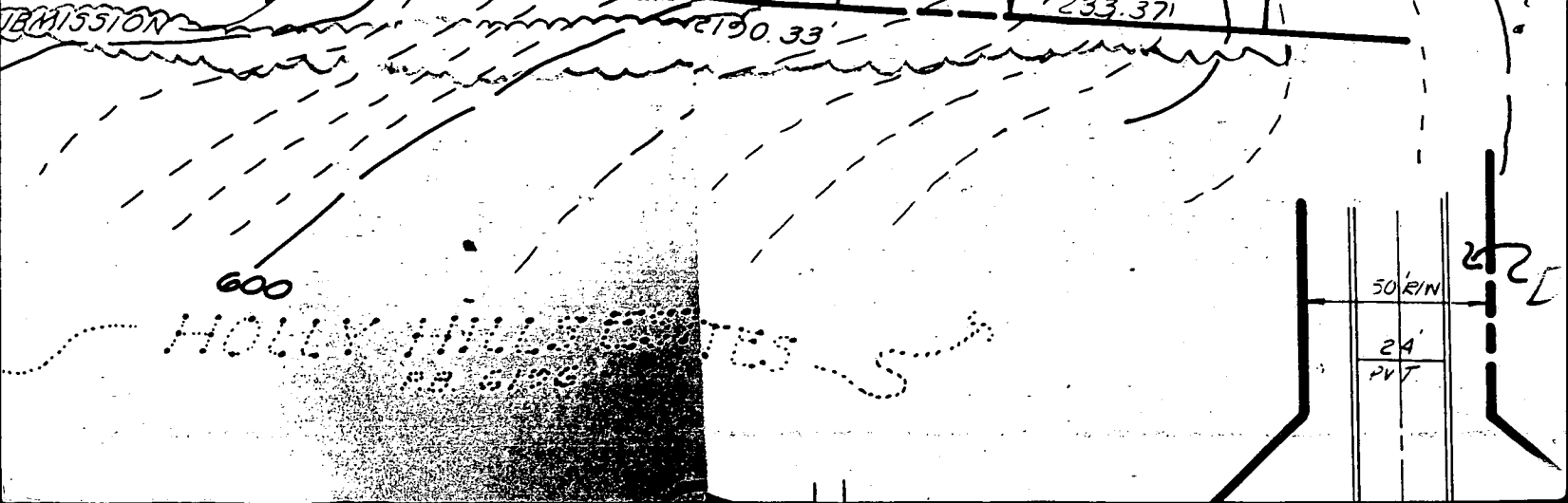
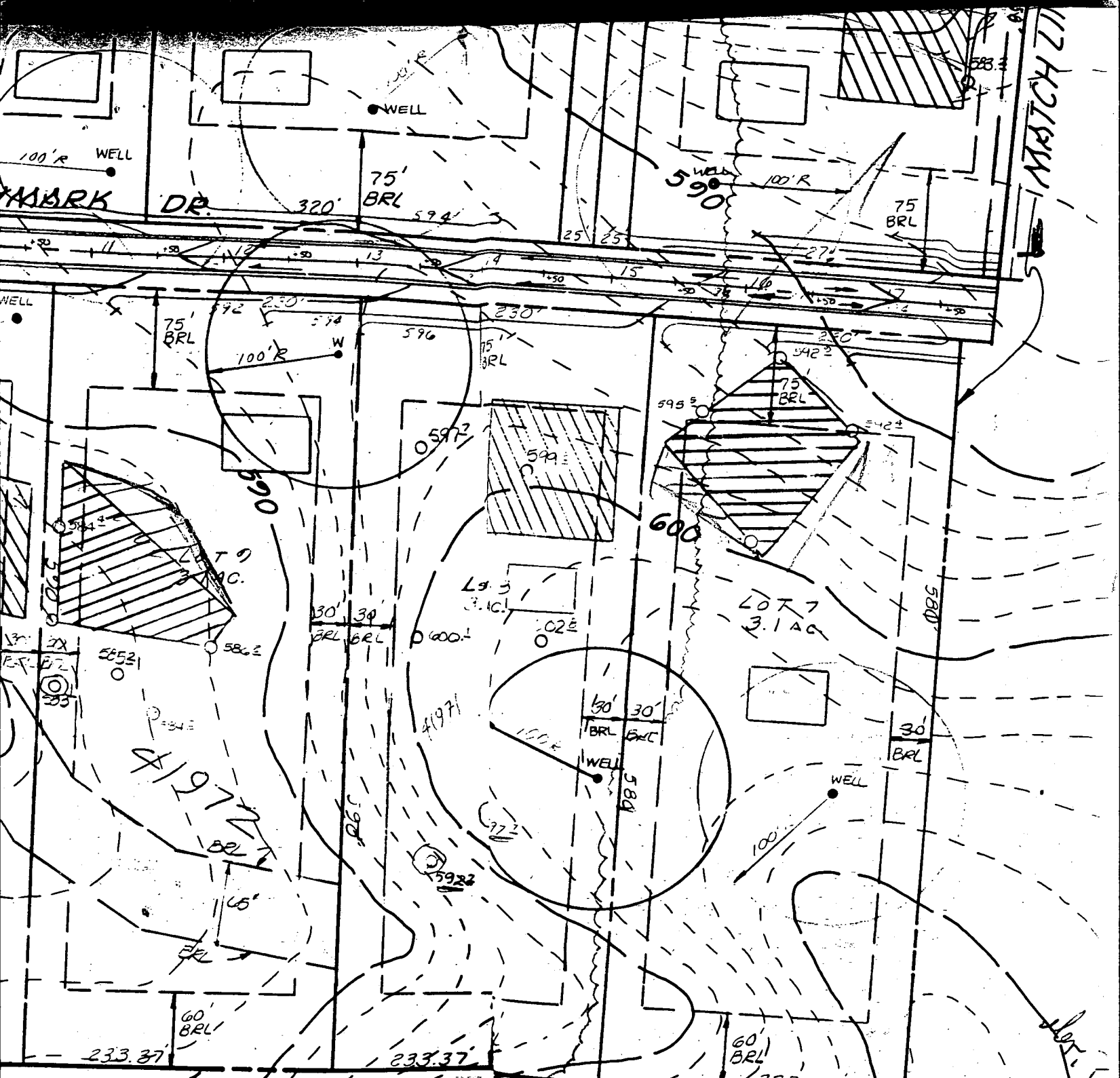
GRAVEL PACK: IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER): T (TELESCOPE CASING), (E.R.O.S.), WQ (LOG INDICATOR), OTHER DATA

PUMPING TEST: HOURS PUMPED (nearest hour) 3; PUMPING RATE (gal. per min. to nearest gal.) 15; METHOD USED TO MEASURE PUMPING RATE: Bucket; WATER LEVEL (distance from land surface) BEFORE PUMPING: 48; WHEN PUMPING: 194; TYPE OF PUMP USED (for test): S (submersible)

PUMP INSTALLED: DRILLER WILL INSTALL PUMP YES (NO); TYPE OF PUMP INSTALLED: PLACE (A,C,J,P,R,S,T,O); CAPACITY: GALLONS PER MINUTE (to nearest gallon); PUMP HORSE POWER; PUMP COLUMN LENGTH (nearest ft.); CASING HEIGHT (circle appropriate box and enter casing height); LAND SURFACE (nearest foot)





100' R WELL

MARK DR.

DR.

75' BRL

590

75 BRL

MATCH

75 BRL

100' R

596

75 BRL

75 BRL

595

600

LOT 7
3.1 AC

LOT 6
3.1 AC

LOT 9
3.1 AC

WELL

WELL

41972

41971

41972

41973

100' R

60' BRL

233.37

233.37

60' BRL

233.37

EMISSION

600

HOLLYHOCK

50' R/W

24 PVT

24

LOT 6

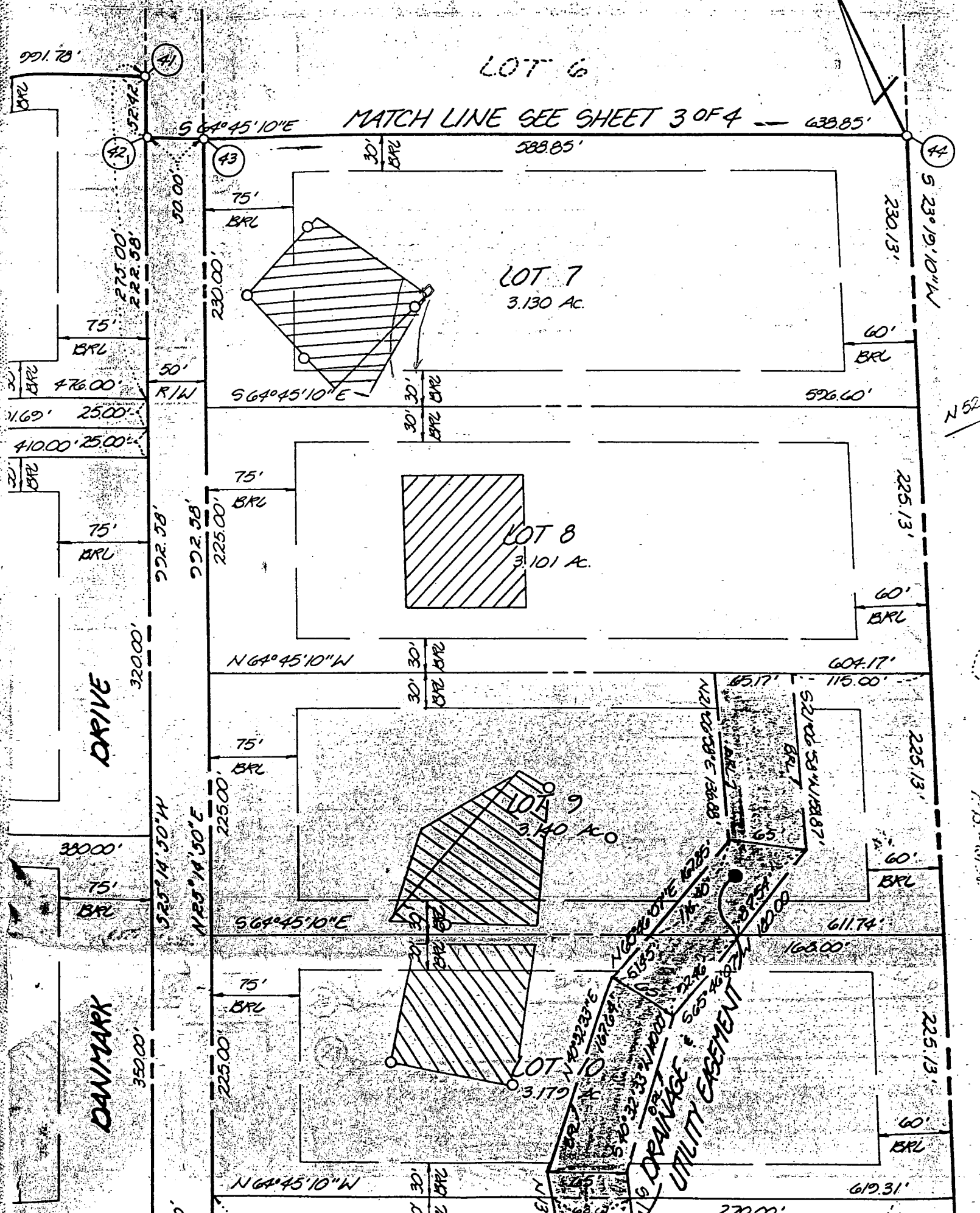
MATCH LINE SEE SHEET 3 OF 4

LOT 7
3.130 AC.

LOT 8
3.101 AC.

LOT 9
3.140 AC.

LOT 10
3.179 AC.



DRIVE

DANMARK

DRAINAGE
UTILITY EASEMENT

N 52°

N 73° - 01' 30\"/>

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: *[Signature]* DATE: 1/25/97

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 DEMED 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, 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 THERETO.
- 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, DICES, 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), SOO (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	5.13	ACRES
AREA TO BE ROOFED OR PAVED	0.35	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.24	ACRES
TOTAL CUT	1000	CUBIC YDS.
TOTAL FILL	1000	CUBIC YDS.

 OFFSITE WASTE/BORROW AREA LOCATION: _____ CUBIC 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 BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

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 @ LBS./1000 SQ. FT.)

SEEDING

FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 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 15, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS (07 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 SOO.

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 GALL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 6 FEET OR HIGHER, USE 348 GALLONS PER ACRE (6 GALL./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.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 38-0-0 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./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, PROTECT 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 SOO; OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.

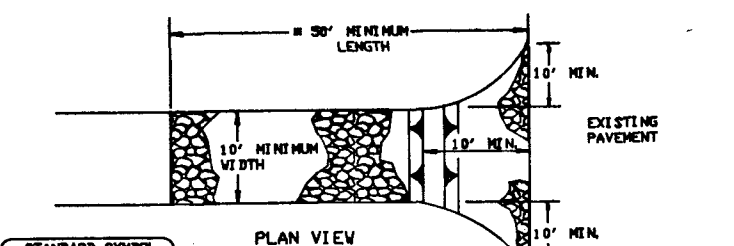
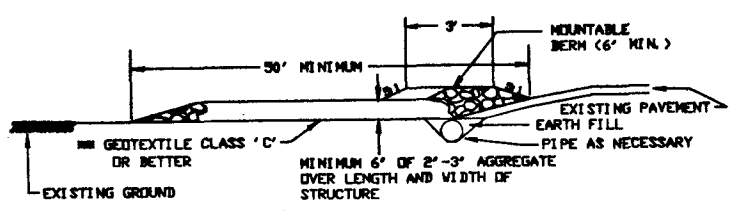
MULCHING

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 200 GALLONS PER ACRE (5 GALL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 6 FEET OR HIGHER USE 348 GALLONS PER ACRE (6 GALL./1000 SQ.FT.) FOR ANCHORING.

MAINTENANCE

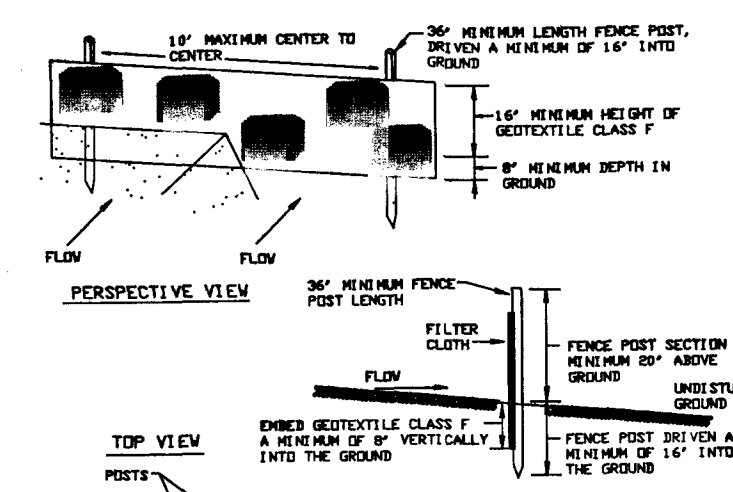
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVETCH 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.



STABILIZED CONSTRUCTION ENTRANCE - 2

- Length - minimum of 50' (40' for single residence lots).
- Width - 10' minimum, should be placed at the existing road to provide a turning radius.
- Geotextile fabric (11' or 12' wide) shall be placed over the existing ground prior to placing stone. After the plan approval, a permit may not be required for residential uses to use geotextile.
- Stone - crushed aggregate (2" to 3") or red or black 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, and installed on pipe over drainage. Pipe installed through the stabilized entrance shall be protected with a nailable berm at the entrance and a minimum of 6" of stone over the pipe. Pipe to be sized according to the drainage. When the S.O.E. 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. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

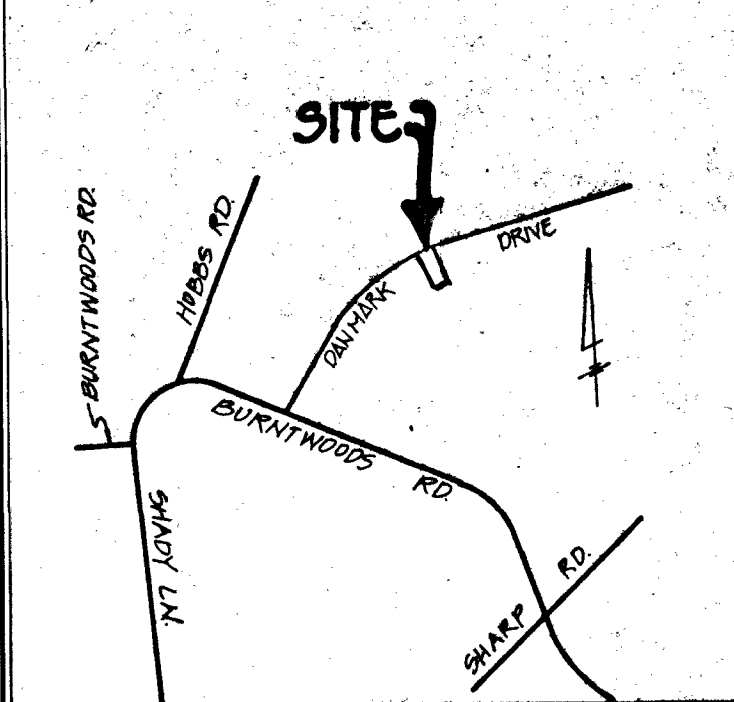
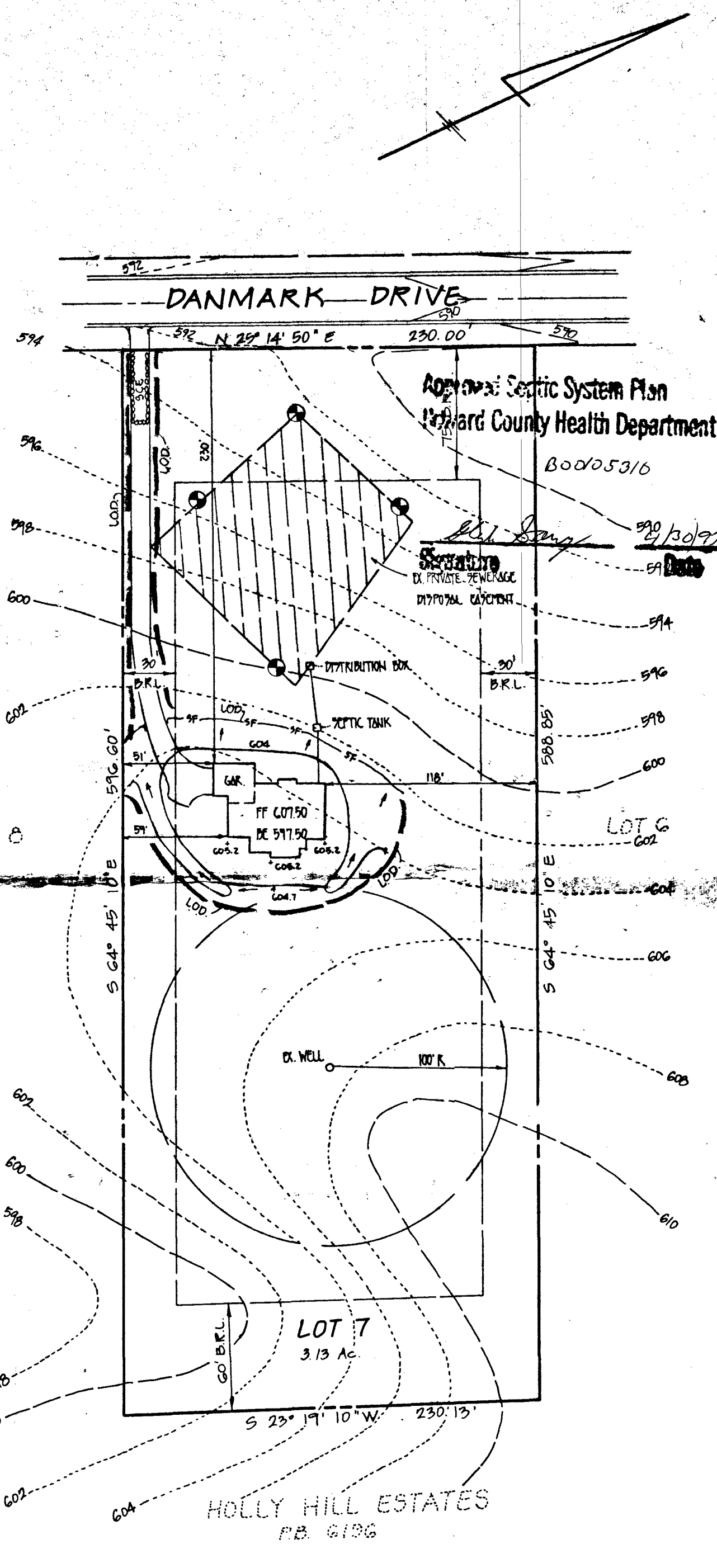


JOINING TWO ADJACENT SILT FENCE SECTIONS

- 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 (4" minimum) cut, or 1 3/4" diameter (4" minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section on weightings 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	30 (lbs./ft. (lin.))	Tests	MSMT 309
Tensile Holdup	20 (lbs./ft. (lin.))	Tests	MSMT 309
Flow Rate	0.3 gal. per 15 minutes (max.)	Tests	MSMT 302
Filtering Efficiency	75% (min.)	Tests	MSMT 302
- 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 on reached 50% of the fabric height.

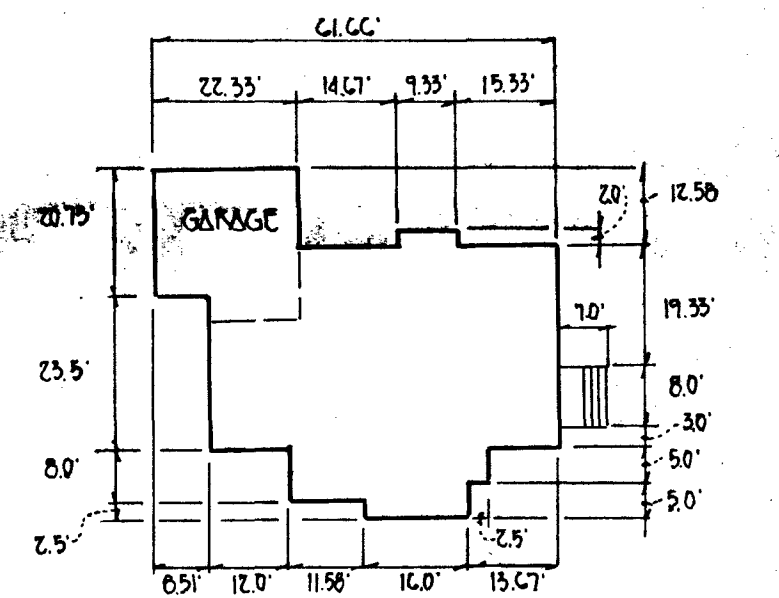
SILT FENCE NOT TO SCALE



VICINITY MAP SCALE: 1"=2000'

GENERAL NOTES

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No. 1000, PER Building 4/30/97
- PROPOSED 1600 GALLON SEPTIC TANK
- FIRST FLOOR ELEVATION: 607.50
- BASEMENT ELEVATION: 597.50
- INVERT OF SEPTIC SYSTEM AT SEPTIC TANK: 596.00
- INVERT IN AT SEPTIC TANK: 596.00
- INVERT OUT AT SEPTIC TANK: 597.76
- PROPOSED GRADE OVER SEPTIC TANK: 602.
- INVERT AT DISTRIBUTION BOX: 597.00
- EXISTING GROUND OVER DISTRIBUTION BOX: 600.
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.



THE RAILL RESIDENCE

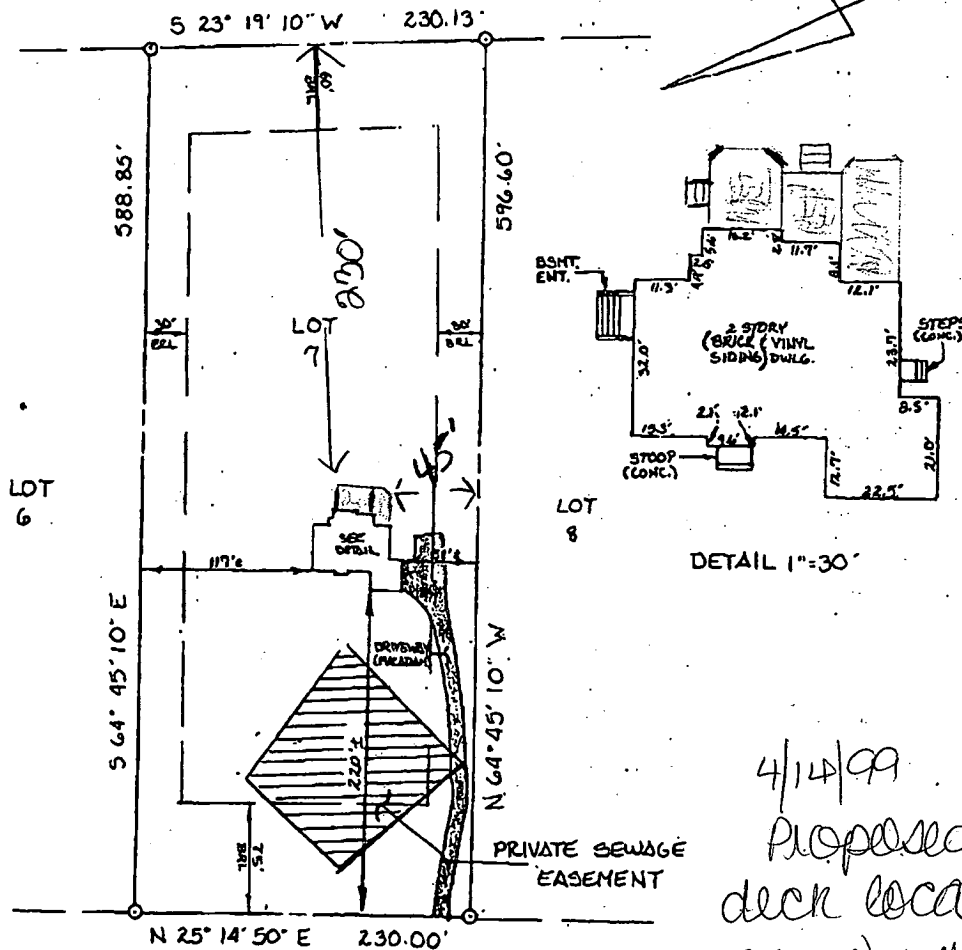
PLAN TO ACCOMPANY BUILDING PERMIT APPLICATION
 CHOI PROPERTY
 LOT 7
 TAX MAP NO. 14 PARCEL NO. 106
 4TH ELECTION DISTRICT HOWARD CO., MD.
 SCALE: 1"=60' DATE: APRIL, 1997



GENERAL NOTES:

- 1) THIS PLAT IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR RE-FINANCING. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS PLAT DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINE, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C IN THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL NO. 2-10024-00192, EFFECTIVE DATE DEC. 9, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF .1' PLUS OR MINUS (0.1).

HOLLY HILL ESTATES
P.B. 6196



DETAIL 1"=30'

4/14/99
 Proposed
 deck location
 or as shown
[Signature]

DANMARK DRIVE
(50' R/W)

TOP OF WALL = 605.6 ±

LOT 7
 CHOI PROPERTY
 LOTS 1-32
 4TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 PLAT REFERENCE: 10632

Rec'd. 9/29/97 *[Signature]*

FENSE, COLLINS & CURTIS, INC.
 THE ARCHITECTS, ENGINEERS & LAND SURVEYORS
 1000 GREENBELT SQUARE, SUITE 200 • GREENBELT, MARYLAND 20878
 (301) 441-1100

STATE OF MARYLAND
 CHARLES J. CROWLEY, JR.
 No. 10763
 REGISTERED
 PROFESSIONAL LAND SURVEYOR

[Signature]
 PROFESSIONAL LAND SURVEYOR
 REG. - 10763

9/18/97
 DATE

**HOUSE LOCATION
DRAWING**

FOUNDATION LOCATION: 5/20/97
 FINAL LOCATION: 9/18/97
 BOUNDARY SURVEY:

SCALE: 1"=100'
 DATE: 9/19/97
 DRAWN BY: JEL
 CHECKED BY: MLL
 PROJECT No.: 60838