

10/29/96  
8:00  
11/7/96  
WPI am  
1-16-97  
11:30 Septic  
pump

# PERMIT

## SEWAGE DISPOSAL SYSTEM

### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

05-382246

P 57357  
50075  
A ~~65179~~

DISTRICT 5th

DATE 10-28-96

#### HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXXXX~~ 313-2640

DATE SYSTEM APPROVED 1/16/97

INSPECTOR [Signature]

### INDEXED

Olen Ketterman IS PERMITTED TO INSTALL  ALTER

ADDRESS 14960 Route 144 Woodbine, MD 21797 PHONE 442-1336

SUBDIVISION Riverside Estates LOT 9 ROAD 10758 Judy Lane

PROPERTY OWNER Sovereign Custom Homes

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1250 GALLONS TOP SEAMED TANK **\*\*PUMP SYSTEM ONLY\*\***

NUMBER OF BEDROOMS 4 **\*TOP SEAMED TANK AND PUMP CHAMBER ONLY\***

210 SQUARE FEET PER BEDROOM **\*\*\*SEPTIC PUMP DETAIL TO BE PROVIDED BY SEPTIC CONTRACTOR PRIOR TO SEPTIC PERMIT ISSUANCE.\*\*\***

LINEAR FEET OF TRENCH REQUIRED 280

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Place distribution box 255 feet up the left (262.71') lot line and 30 feet off that same lot line as seen when facing the lot from Judy Lane. Run trenches on contour toward 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 7 people DKS

PLANS APPROVED BY Amy McMillen/Craig Williams DATE 5/04/96

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

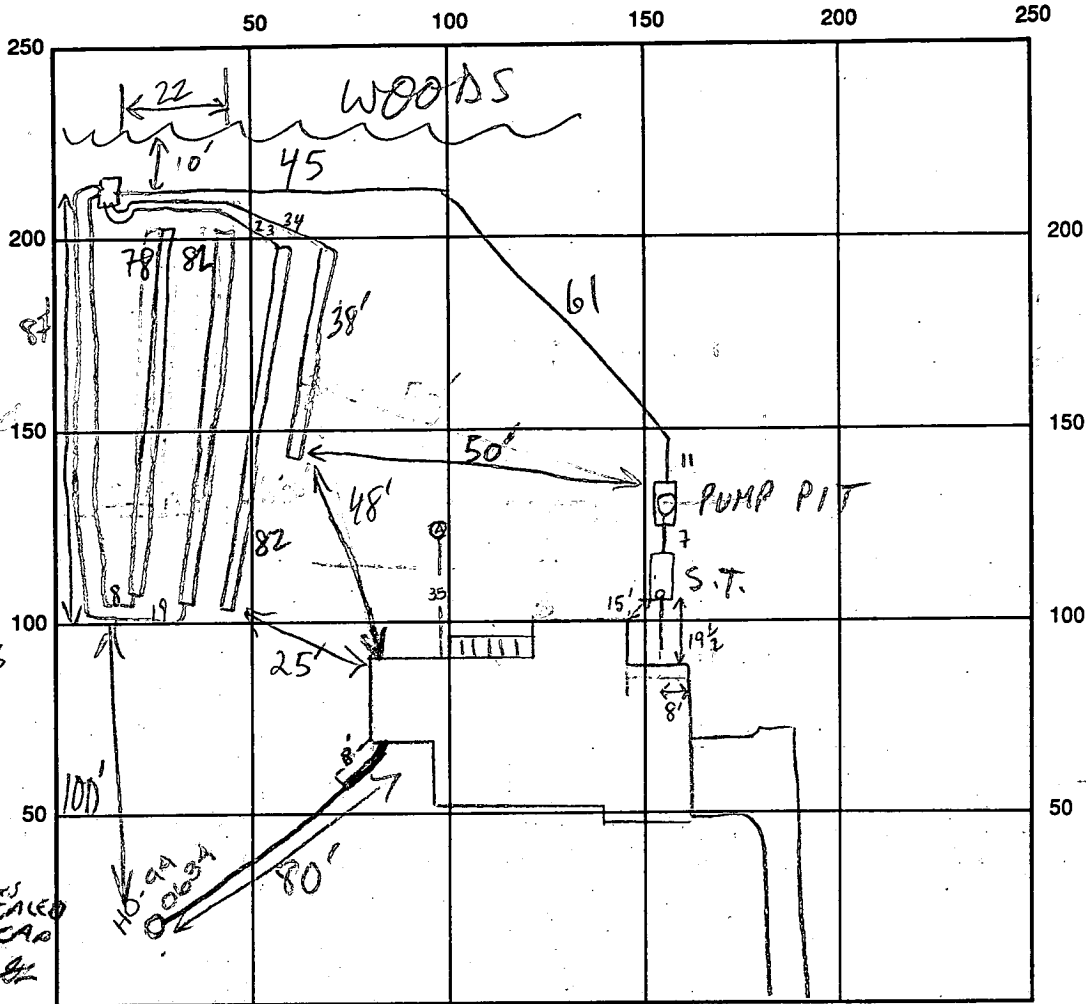
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED. SFD - 4/20/97

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

**OLD. PERMIT SIGNED AND RETURNED 5-30-97 Serial # 45179-**

A 50075



11-7-96  
WPE LINES SEALED  
GROUND IN CAP  
TO COVER

11/13/96  
Ground put in  
AL

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

1500 TOP SEALED S.T.  
SEPTIC TANK LEVEL 1000 TOP SEALED PUMP PIT CLEANOUTS S.T. - 8" - PUMP PIT - M44

DISTRIBUTION BOX LEVEL OK - BAFFLE IN

DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH ①78 ②82 ③82 ④38

NUMBER OF TRENCHES 4 ONE SIDEWALL BOTTOM AREA ①234 ②246 ③246 ④114 SQ. FT.

DRYWALL INSIDE DIAMETER \_\_\_\_\_ FT. EFFECTIVE DEPTH BELOW INLET \_\_\_\_\_ FT.

ABSORBENT AREA 840 SQ. FT.

REMARKS: 10/22/96 Test hole dug in lower portion of SBA to confirm soils - OK to

put short trenches in to save trees - leave 50' around trees for future trench installation

10/29/96 TRENCHES & TANKS OK TO COVER; HOLD FOR HOUSE

CONN & PUMP INSP MR

Septic Pump Test - OK, alarm OK 1/16/97

DATE SYSTEM APPROVED 1/16/97

INSPECTOR *[Signature]*

# APPLICATION

Page 1 of 2  
A 18753

## SEWAGE DISPOSAL TESTING

P \_\_\_\_\_

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-3000, EXT. 356

DISTRICT 5th

DATE July 12, 1973

Specs on separate sheet  
80  
9200

4/19/74  
No. more  
appointments  
NWZ

No test  
Water @ 9'  
Top 9' clay  
Relocate system

BLDG. PERMIT SIGNED  
AND RETURNED 5-30-76

Sewer TF 65179  
S.F.D - 4 BRM

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 Delores Investments (contract owner) Sovereign Custom Homes

ADDRESS 17512 Bowie Mill Rd., Derwood, Maryland PHONE 301-948-5115

PROPERTY LOCATION:

SUBDIVISION Riverside Estates - 10758 July 200 LOT NO. 9

ROAD AND ~~DESCRIPTION~~ Directions From Ellicott City South on Rt. 29 Approximately 1000 feet South of Rt. 32 to Vista Drive; West on Vista Drive to Long View

SIZE OF LOT Approximately one acre 43,700 sq TYPE BLDG. 4 Bedroom + NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT William J. Miller 948-5115

APPROVED BY J. Skinn FOR Drainfields DATE 4/29/82  
(KIND OF SYSTEM)

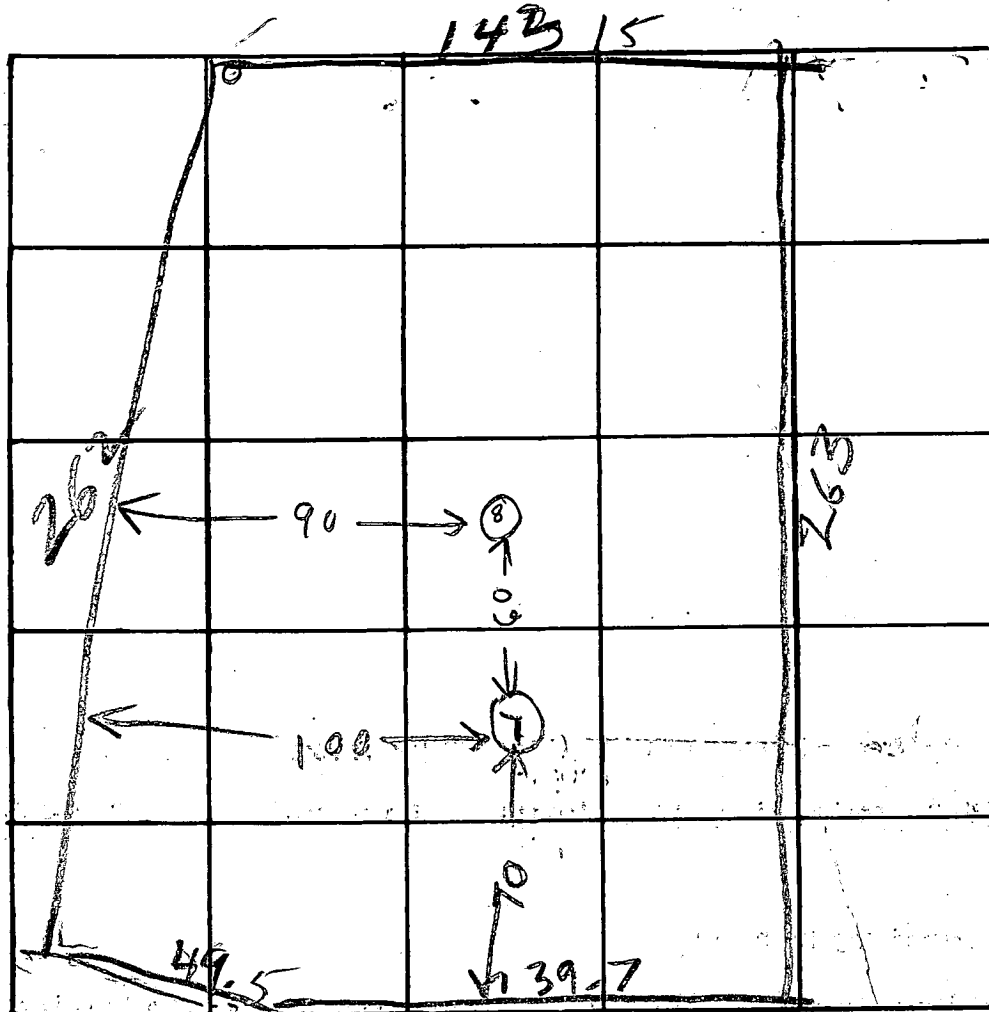
REJECTED BY W.W. Zepp FOR JW DATE 8/15/73  
(KIND OF SYSTEM) and drain fields DATE 4/19/74

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

REASONS FOR REJECTION OR HOLDING Water @ 9'; all clay to this in hole opened.

4/19/74 Discussed w Mr. Wone  
4/21/82 VISUAL HOLES DUG MUST DISCUSS WITH FR&FS

# THIS IS NOT A PERMIT



INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

JUDY LANE

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/20/82	7S	3 1/2	326	314	ONE EIGHTH INCH		FAIL
	7M	5	344	357	" "	" "	FAIL
	7V	11	CLAY	U4 SAND MIX			DRY
	8S	4 1/2	354	359	359		
4/20/81	8V	6	TOP	4 CLAYISH			
			BOT	2 SANDY			DRY

OPEN

REMARKS FROMM BLT  
HODGES

Miller  
BARTH BACKHOE

TYPE OF SOIL

CURB IS 1 1/2 FT FROM FRONT LINE

# APPLICATION

Page 2 of 2  
A 18753

## SEWAGE DISPOSAL TESTING

P \_\_\_\_\_

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-8000, EXT. 356

DISTRICT 5th  
DATE July 12, 1973

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 Dolores Investments (contract owner)

ADDRESS 17512 Bowie Mill Rd., Derwood, Maryland PHONE 301-948-5115

### PROPERTY LOCATION:

SUBDIVISION Riverside Estates LOT NO. 9

ROAD AND ~~DESCRIPTION~~ directions From Ellicott City South on Rt. 29 Approximately 1000 feet South of Rt. 32 to Vista Drive; West on Vista Drive to Long View *Judy Lane*

SIZE OF LOT Approximately one acre 43,700 sq TYPE BLDG. 4 Bedroom + -  
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT *William J. Miller*

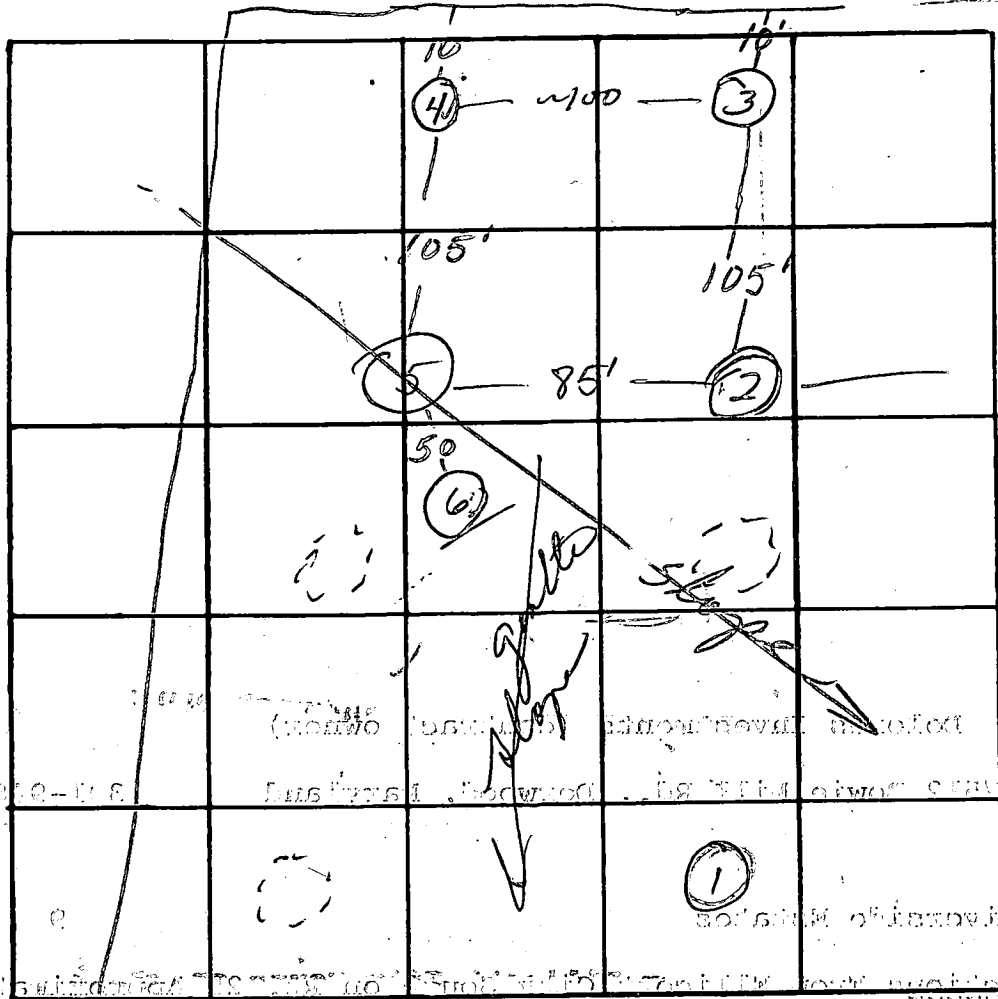
APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

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

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

# THIS IS NOT A PERMIT



2000  
84

Lot 9

INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME		
			START	STOP	START	STOP			
8/10/73	①	9'	Water; all clay to this						
11/18/74	2	4'	10:54	11:00	11:00	11:17	17	lowest	
	3	5 1/2'	10:35	10:36	10:36	10:38	2		
	(good grad. @ 3') 4	5'	10:43	10:46	10:46	10:52	6	} equal elevation	
	5	4'	10:56	11:00	11:00	11:09	9		
	6	12 1/2'	Visual; water came in @ 10 1/2'						
			after ~ 1 hr.						
			Difference in elevation; high to low						
			holes is ~ 5 1/2'						
			#6 ~ 2' lower than #5						

REMARKS

TYPE OF SOIL

Water @ 9' #2 - dug to 9'; water coming in @ 7 1/2'

Clay

# APPLICATION

A 20380

P \_\_\_\_\_

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES

DISTRICT 5

DATE 6/28/74

NO. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

4/20/82  
2:00 p.m.

*Preparation  
Received*  
1950?  
*Plot 6  
July 28*

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 RESIDENTIAL DEVELOPERS, INC.

ADDRESS P.O. Box 700, SEABROOK, MD. 20801 PHONE 531-5225

PROPERTY LOCATION:

SUBDIVISION RIVERSIDE ESTATES LOT NO. LOT 9, BLOCK 8

ROAD AND DESCRIPTION JUDY LANE

SIZE OF LOT 40,000 Sq. Ft. + TYPE BLDG. 3-4  
NUMBER OF BEDROOMS

IF NOT SINGLE RESIDENCE DESCRIBE N/A

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE

SIGNATURE OF APPLICANT [Signature]

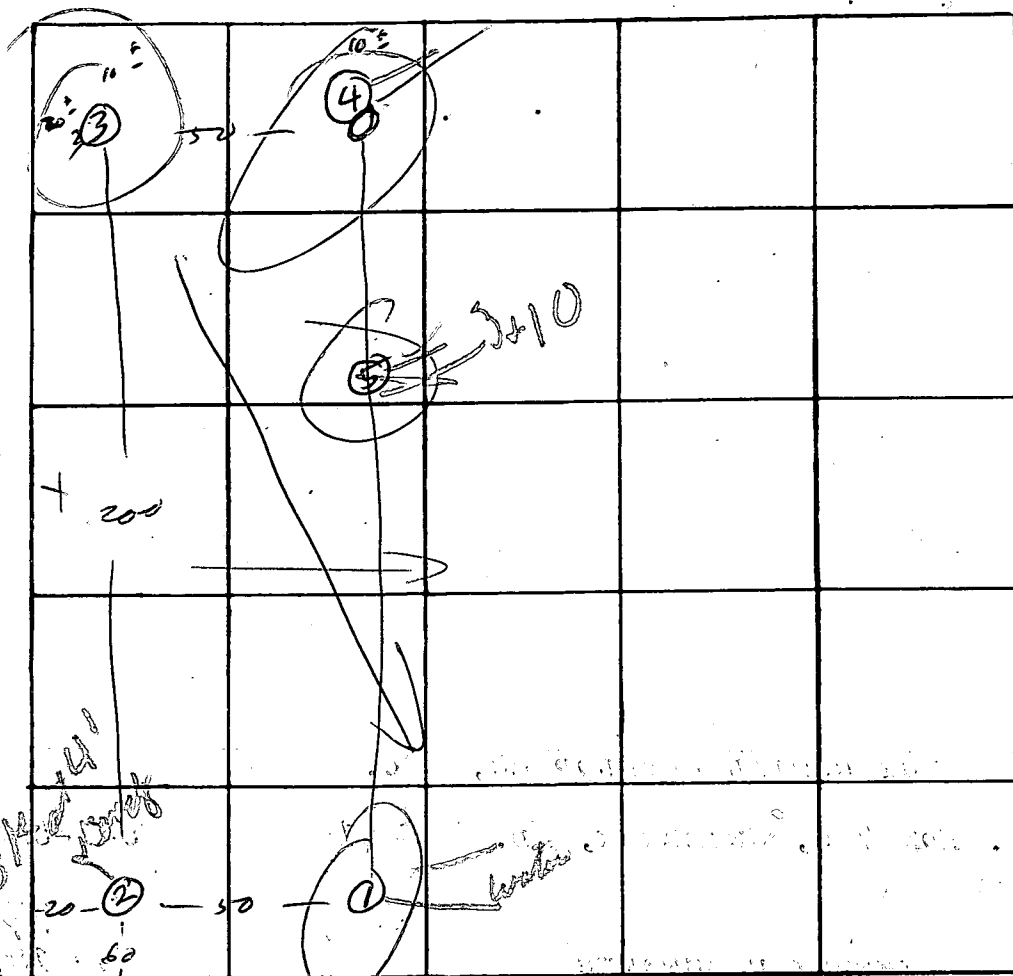
APPROVED BY Robert J. Moorefield FOR Drainfield DATE JUL 27 1974  
(KIND OF SYSTEM)

REJECTED BY T.S. FOR any DATE \_\_\_\_\_  
(KIND OF SYSTEM)

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

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

# THIS IS NOT A PERMIT



Lot 9 B

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

← Road →

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5/13	1	3					
	1A	7					
	<del>1B</del>	10	9" water				
	2A	4	11:06	11:07	11:07	11:09	2
	<del>2B</del>	11	11:07		NO PERK		
	2C						
	3A		11:26	11:28	11:28	11:30	2
	3B		11:27	11:28	11:28	11:29	1
	3C						
	4A						
<del>4B</del>			9" water				
4C							
5A							
<del>5B</del>			water 8 1/2"				
5C							
3D	10						
2D	10		U 15		dry		Sandy
5D	13						
REMARKS	5E	10	1021	1022	1022	1027	5 moist
	5F	3	1021	1023	1023	1027	4

TYPE OF SOIL

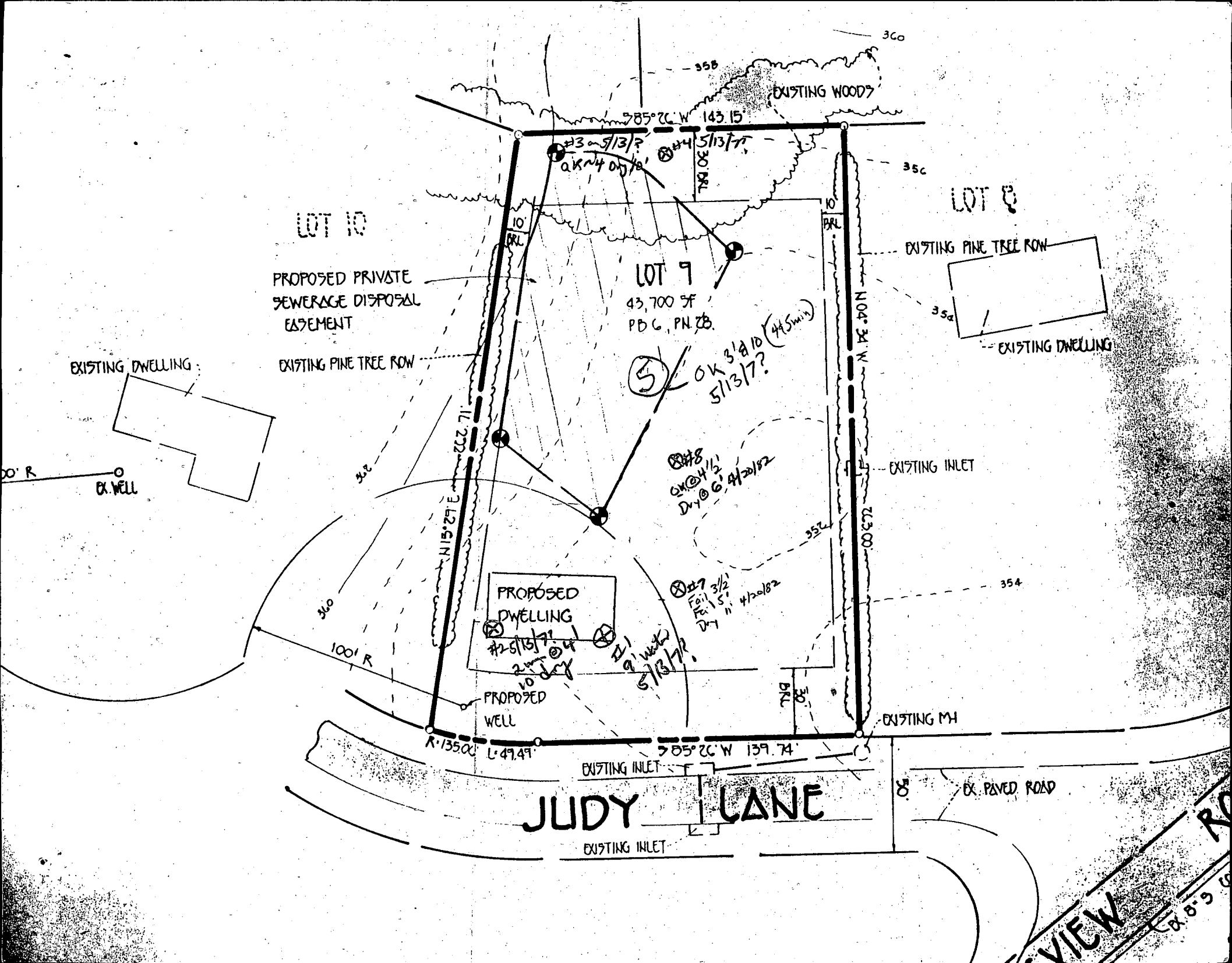
TESTED BY

R.B.; R.M.

ALSO PRESENT:

Barth

clay  
2  
sandy clay  
4  
sand  
wet



LOT 10

PROPOSED PRIVATE SEWERAGE DISPOSAL EASEMENT

LOT 9

43,700 SF  
P.D.G., P.N.Z.B.

LOT 8

EXISTING PINE TREE ROW

EXISTING DWELLING

EXISTING PINE TREE ROW

OK 3/8/10 (44.5 min)  
5/13/77

EXISTING INLET

EX. WELL

PROPOSED DWELLING

#2-5/13/77  
2" Jct  
10' Jct

PROPOSED WELL

OK 4/1/82  
D.Y. 6" 4/20/82

OK 3/2/82  
Foil 1 1/2" 4/20/82  
2 1/2" "

EXISTING MH

JUDY LANE

EX. PAVED ROAD

VIEW ROAD

8-8-9

# APPLICATION

CHECK FOR #225 MADE  
PAYABLE TO DIRECTOR OF FINANCE

ONE PRINT.

PERCOLATION TESTING

A 50675

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE 4-27-95

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER PAT DAVIS

ADDRESS 9150 BALTIMORE NATIONAL PIKE PHONE 410-461-7100

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

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

PROPERTY LOCATION:

SUBDIVISION RIVERSIDE ESTATES LOT NO. LOT 9

ROAD AND DESCRIPTION 100 FEET WEST OF THE INTERSECTION OF  
JUDY LANE AND LONGVIEW ROAD.

TAX MAP 41 PARCEL # 174

SIZE OF LOT 43,700 S.F. TYPE BLDG. SINGLE FAMILY DWELLING  
(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. William K. Fralic  
(SIGNATURE OF APPLICANT) 461-2855

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

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

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

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT



# APPLICATION

*River's Edge  
Municipality*

## PERCOLATION TESTING

A \_\_\_\_\_

P \_\_\_\_\_

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 313-2640

DISTRICT \_\_\_\_\_

DATE \_\_\_\_\_

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER \_\_\_\_\_

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

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

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

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION \_\_\_\_\_

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ TYPE BLDG. \_\_\_\_\_  
(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.

(SIGNATURE OF APPLICANT)

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

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

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

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

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

A50675

COUNTY #

SOIL PROFILE

0' **A**  
 dark  
 brn  
 SiClm

3'6"  
 4' black  
 patch sand  
 mottled  
 from H<sub>2</sub>O  
 Sand  
 yellow;  
 white

8' very  
 coarse  
 sand  
 micaceous  
 dark  
 grey brn

11' water

**B**  
 dark  
 brn  
 SiClm

2.5' orange  
 red  
 SalM  
 very  
 coarse  
 micaceous

9' greyish  
 tan  
 coarse  
 sand  
 possible  
 H<sub>2</sub>O  
 table  
 (color)

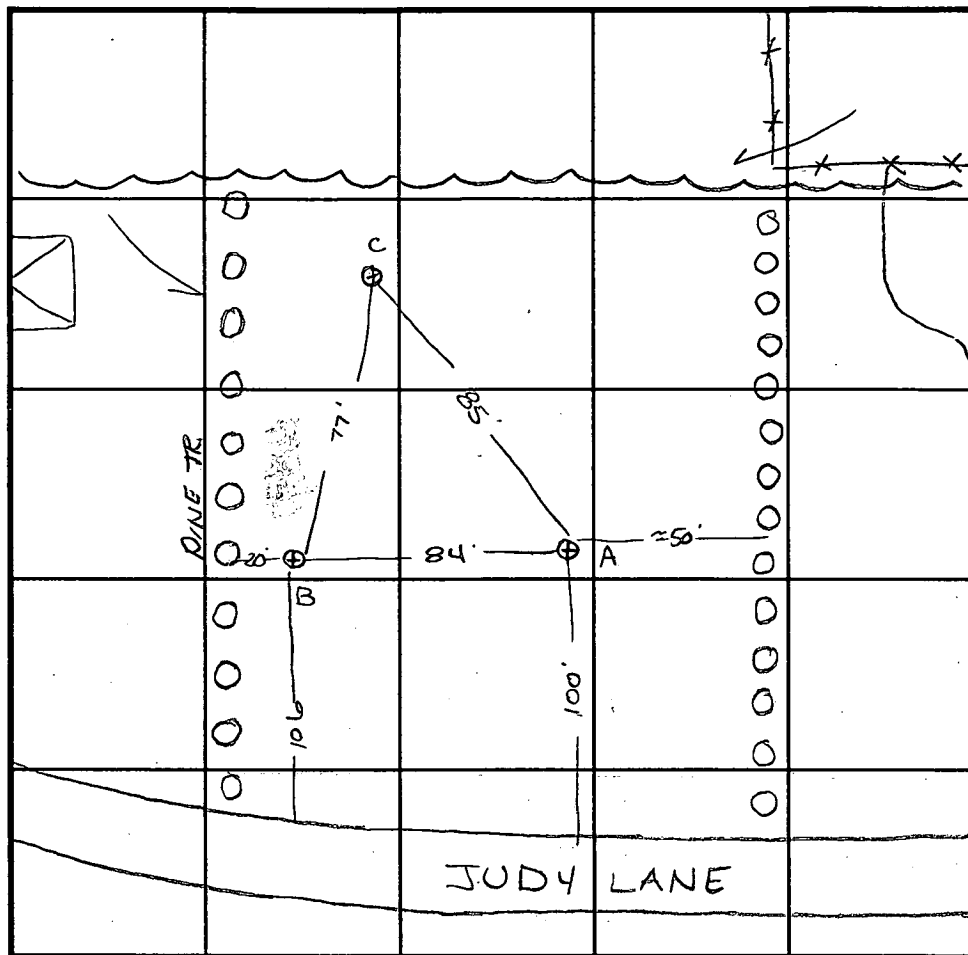
13'

**C**  
 orange  
 tan  
 SiClm  
 gravelly  
 micaceous

4' orange  
 tan  
 SalM  
 gravelly  
 1/8" dia  
 stones

8' greyish  
 tan sand  
 w/ black  
 granules  
 of  
 sand  
 50% sand/rock  
 water

12 1/2'



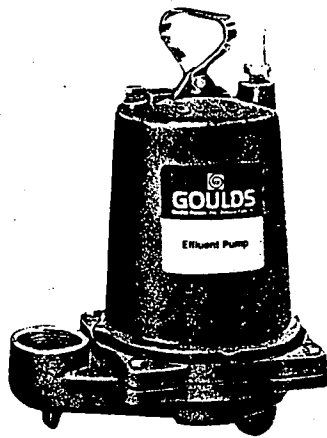
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-3-95	A	Visual to 11'	will perc at	4'	-	OK	
	B	Visual to 13'	will perc at	2.5'	-	OK	
	C	Visual to 12.5'	will perc at	4'	-	OK	

REMARKS Holes open > 2 hrs pump system most likely necessary

TYPE OF SOIL \_\_\_\_\_  
 TESTED BY Amy McMullen ALSO PRESENT Olan Ketterman  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 9 min TRENCH WIDTH 3  
 INLET DEPTH 3' MAXIMUM BOTTOM DEPTH 55' SQ. FT./BEDROOM 210 ft<sup>2</sup>

FROM OLD TEST TIMES



# Goulds Submersible Effluent Pump

MODEL

## 3885

CANADIAN STANDARD ASSOCIATION



### APPLICATIONS

Specifically designed for the following uses:

- Homes
- Farms
- Trailer courts
- Motels
- Schools
- Hospitals
- Industry
- Effluent systems

### SPECIFICATIONS

#### Pump:

- Solids handling capabilities: 3/4" maximum.
- Discharge size: 2" NPT.
- Capacities: up to 128 GPM.
- Total heads: up to 123 feet TDH.
- Mechanical seal: silicon carbide-rotary seat/silicon carbide-stationary seat, 300 series stainless steel metal parts, BUNA-N elastomers.
- Temperature: 104°F (40°C) continuous, 140°F (60°C) intermittent.
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

#### Motor:

- Single phase: 1/3 HP, 115 or 230 V 60 Hz, 1750 RPM; 1/2 HP, 115 V, 60 Hz, 3500 RPM; 1/2 HP - 1 1/2 HP, 230 V, 60 Hz, 3500 RPM.
- Built-in overload with automatic reset.
- Class B insulation.

- Three phase: 1/2 HP - 1 1/2 HP 200/230/460 V, 60 Hz, 3500 RPM. Class B insulation, overload protection must be provided in starter unit.
- Shaft: threaded, 400 series stainless steel.
- Bearings: ball bearings upper and lower.
- Power cord: 20 foot standard length (optional lengths available).
- Single phase: 1/3 and 1/2 HP - 16/3 SJTO with three prong plug. 3/4-1 1/2 HP - 14/3 STO with bare leads.
- Three phase: 1/2-1 1/2 HP - 14/4 STO with bare leads. On CSA listed models - 20 foot length SJTW and STW are standard.

### FEATURES

**Impeller:** Cast iron, semi-open, non-clog with pump-out vanes for mechanical seal protection. Balanced for smooth operation. Silicon bronze impeller available as an option.

**Casing:** Cast iron volute type for maximum efficiency. 2" NPT discharge adaptable for slide rail systems.

**Mechanical Seal:** Silicon carbide vs. silicon carbide sealing faces. Stainless steel metal parts, BUNA-N elastomers.

**Shaft:** Corrosion-resistant stainless steel. Threaded design. Locknut on three phase models to guard against component damage on accidental reverse rotation.

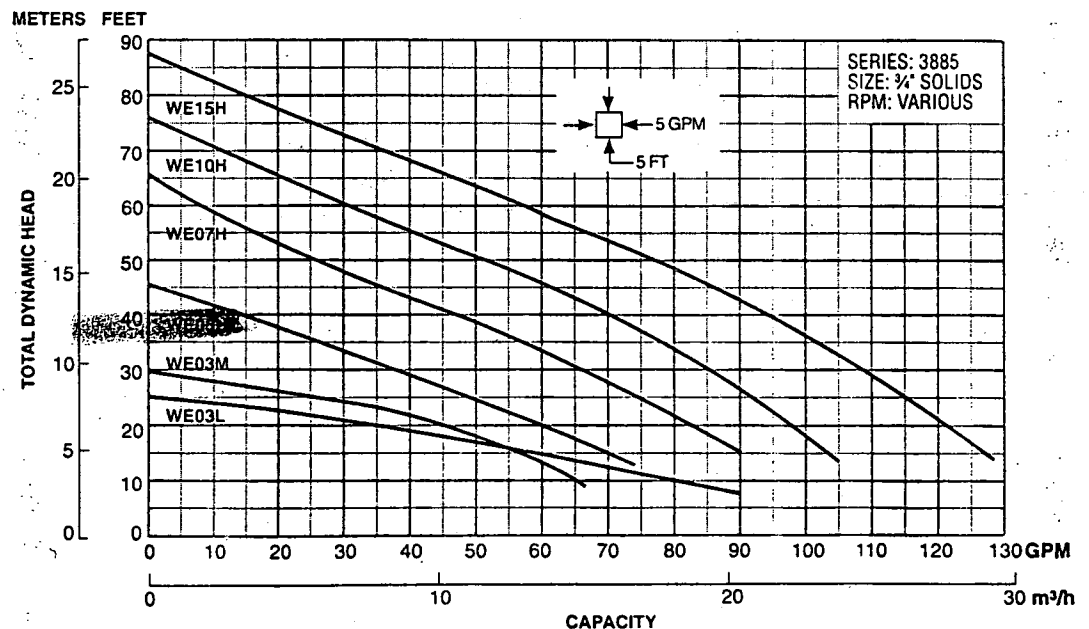
**Motor:** Fully submerged in high-grade turbine oil for lubrication and efficient heat transfer.

**Designed for Continuous Operation:** Pump ratings are within the motor manufacturer's recommended working limits, can be operated continuously without damage.

**Bearings:** Upper and lower heavy duty ball bearing construction.

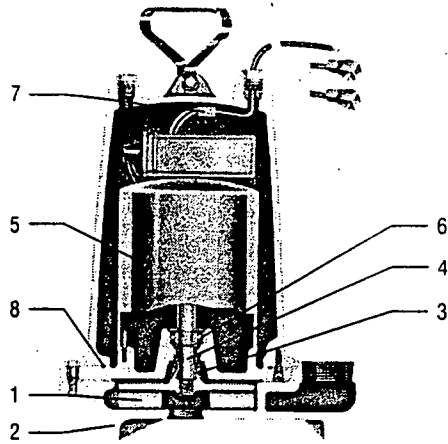
**Power Cable:** Severe duty rated, oil and water resistant. Epoxy seal on motor end provides secondary moisture barrier in case of outer jacket damage and to prevent oil wicking.

**O-ring:** Assures positive sealing against contaminants and oil leakage.



**PARTS**

Item No.	Description
1	Impeller
2	Casing
3	Mechanical seal
4	Shaft
5	Motor
6	Bearings - upper and lower
7	Power cable
8	O-ring



Goulds  
**Submersible Effluent Pump**

**MODEL**

**3885 RECEIVED**

OCT 28 1996

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH

**MODELS**

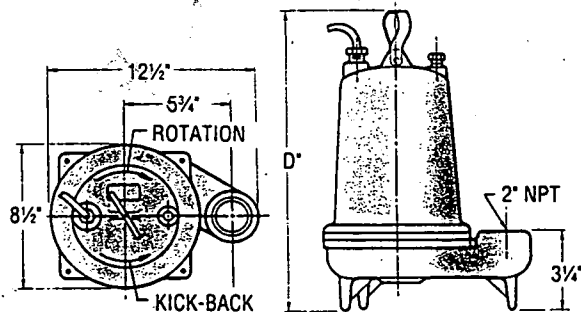
Order No.	HP	Volts	Phase	Max. Amp.	RPM	Solids Wt. (lbs.)
WE0311L	1/5	115		9.4	1750	56
WE0312L	2/3	230		4.7		
WE0311M	1/5	115		9.4		
WE0312M	2/3	230	1	4.7		
WE0511H	1/5	115		13.0	1750	60
WE0512H	2/3	230		6.5		
WE0538H	200	200		3.9		
WE0532H	230	230	3	3.4		
WE0534H	460	460		1.7		
WE0511HH	1/5	115	1	13.0	1750	60
WE0512HH	230	230		6.5		
WE0538HH	200	200		3.8		
WE0532HH	230	230	3	3.3		
WE0534HH	460	460		1.65		
WE0712H	230	230	1	10.0	3500	3/4"
WE0738H	200	200		6.2		
WE0732H	208-230	208-230	3	5.4		
WE0734H	460	460		2.7		
WE1012H	230	230	1	12.5	3500	70
WE1038H	200	200		8.1		
WE1032H	208-230	208-230	3	7.0		
WE1034H	460	460		3.5		
WE1512H	230	230	1	15.0	3500	80
WE1538H	200	200		10.6		
WE1532H	208-230	208-230	3	9.2		
WE1534H	460	460		4.6		
WE1512HH	230	230	1	15.0	3500	80
WE1538HH	200	200		10.6		
WE1532HH	208-230	208-230	3	9.2		
WE1534HH	460	460		4.6		

**PERFORMANCE RATINGS** (gallons per minute)

Order No.	WE0311H		WE0511H		WE0511HH		WE1512H		WE1512HH	
	WE0311L	WE0311M	WE0532H	WE0732H	WE1032H	WE1532H	WE0532HH	WE1532HH	WE0534H	WE1534H
HP	1/5	1/5	2/3	3/4	1	1 1/2	1/2	1 1/2	1/2	1 1/2
RPM	1750	1750	3500	3500	3500	3500	3500	3500	3500	3500
5	-	-	-	-	-	-	60	-	-	-
10	80	65	-	-	-	-	56	84	-	-
15	60	57	69	90	104	128	53	82	-	-
20	36	45	60	83	98	122	48	77	-	-
25	-	25	50	76	92	116	45	75	-	-
30	-	-	38	67	85	109	40	72	-	-
35	-	-	26	58	78	102	35	70	-	-
40	-	-	15	47	70	94	30	67	-	-
45	-	-	-	36	62	86	25	64	-	-
50	-	-	-	25	52	77	18	60	-	-
55	-	-	-	17	42	67	12	58	-	-
60	-	-	-	8	32	56	3	54	-	-
65	-	-	-	-	21	46	-	51	-	-
70	-	-	-	-	11	35	-	47	-	-
75	-	-	-	-	-	25	-	43	-	-
80	-	-	-	-	-	15	-	40	-	-
90	-	-	-	-	-	-	-	33	-	-
100	-	-	-	-	-	-	-	24	-	-
110	-	-	-	-	-	-	-	15	-	-
120	-	-	-	-	-	-	-	5	-	-

**DIMENSIONS**

(All dimensions are in inches. Do not use for construction purposes.)  
D\* 1/5, 1/2, 3/4 and 1 HP = 15"  
except for model WE0712H and WE1012H = 18"; 1 1/2 HP = 18"

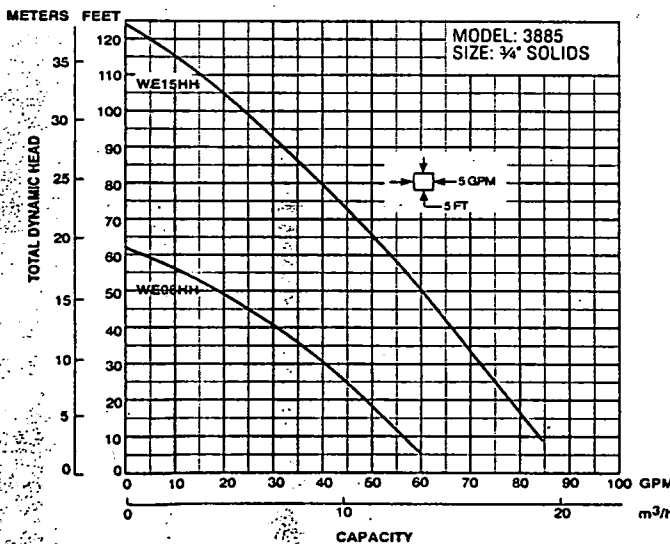


**EFFLUENT EJECTOR SYSTEM**

Effluent ejector system offers ease of ordering and installation. A single ordering number specifies a complete system designed for most residential and commercial sump and effluent pump applications.



**Package Includes:**  
Submersible Effluent Pump WE0311L, 12L or WE0311M, 12M, WE0511H, 12H  
Mercury Level Control Switch A2-5 (115V), A2-6 (230V)  
Basin A7-1801S, Basin Cover A8-1822  
Check Valve A9-2P  
Order No.: SWE0311L, SWE0312L, SWE0311M, SWE0312M, SWE0511H, SWE0512H.



SITE

IS GRANTED FROM  
SEDIMENT CONTROLS  
REAS.

DISTURBED

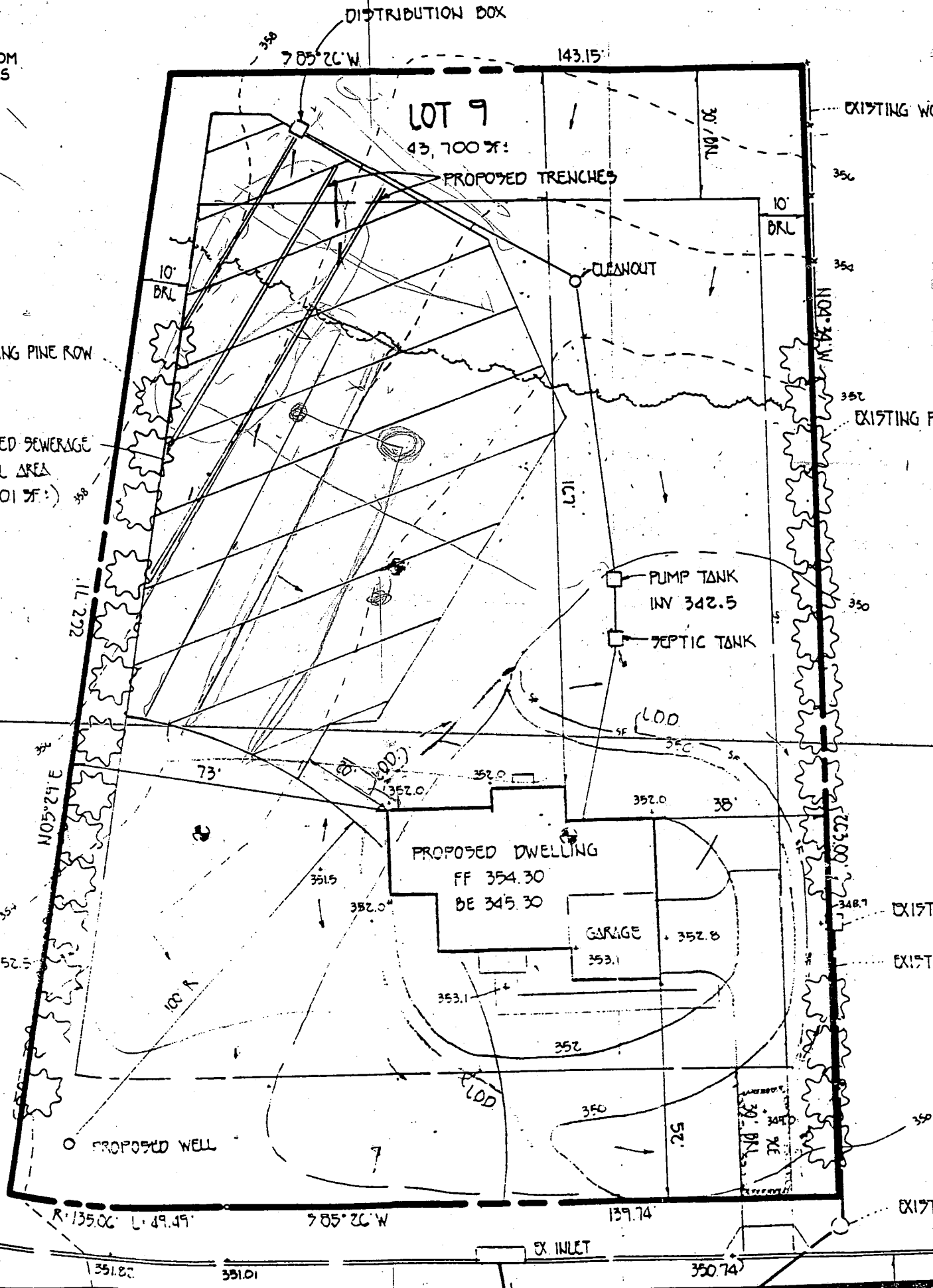
000 SQ. FT.)

JUST  
ANNUAL  
UGUST 14,  
/1000SQ.FT.)  
ECT SITE BY  
MULCH AND

SQ.FT.)  
EEDING  
MULCH  
00 SQ.FT.)  
EST OR HIGHER,  
ANCHORING.

ATION FOR SOIL  
S NOT COVERED.

DISTRIBUTION BOX



EXISTING W...

350

10' BRL

350

350

EXISTING P...

350

EXIST

EXIST

EXIST

N05°24'E

352.5

PROPOSED WELL

R 135.00' L 49.49'

785.20' W

EX INLET

351.80

351.01

350.74

**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 \_\_\_\_\_

**SEQUENCE OF CONSTRUCTION**

1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN.
3. PERFORM NECESSARY GRADING AND STABILIZE THE SITE.
4. 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 (32 LBS./1000 SQ. FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS (07 LBS./1000 SQ. FT.) FOR THE PERIOD NOVEMBER 15 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 SOG.

**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 210 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 500 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 30-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ. FT.) AND 500 LBS. PER ACRE (115 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 (14 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 SOG; 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 (90 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**

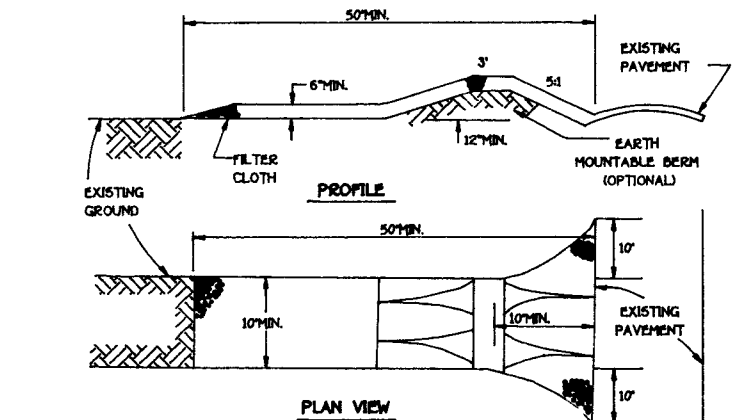
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

\* FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWN VETCH 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.

**SEDIMENT 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 (1992-2437).
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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: (a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL GREATER THAN 3:1; (b) 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 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 50 SOD (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.
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	1.003 ACRES
AREA DISTURBED	0.21 ACRES
AREA TO BE ROOFED OR PAVED	0.08 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.13 ACRES
TOTAL CUT	CU.YDS.
TOTAL FILL	CU.YDS.
OFFSITE WASTE/BORROW AREA LOCATION	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 DPW SEDIMENT CONTROL INSPECTOR. 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.



**CONSTRUCTION SPECIFICATIONS**

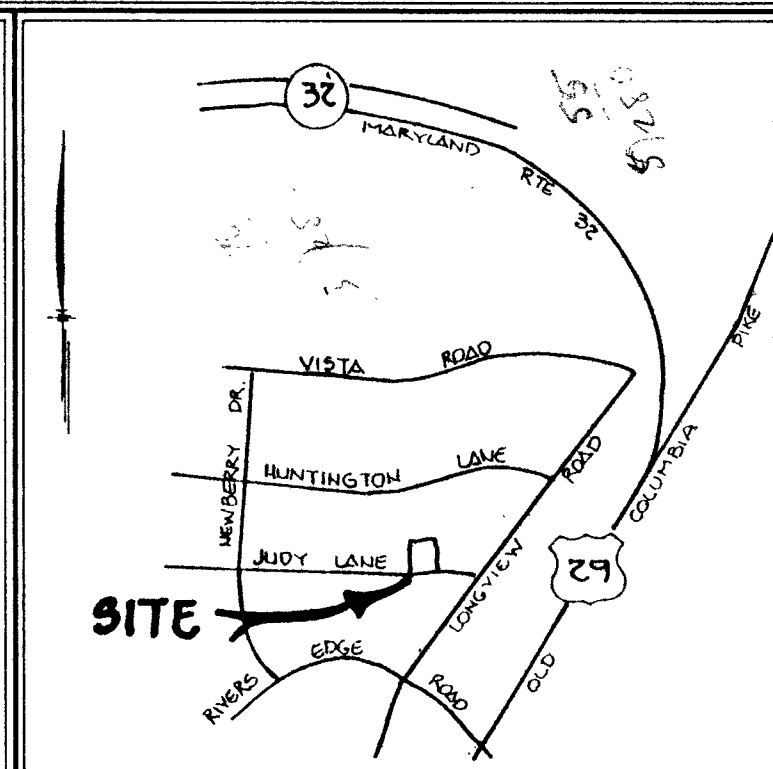
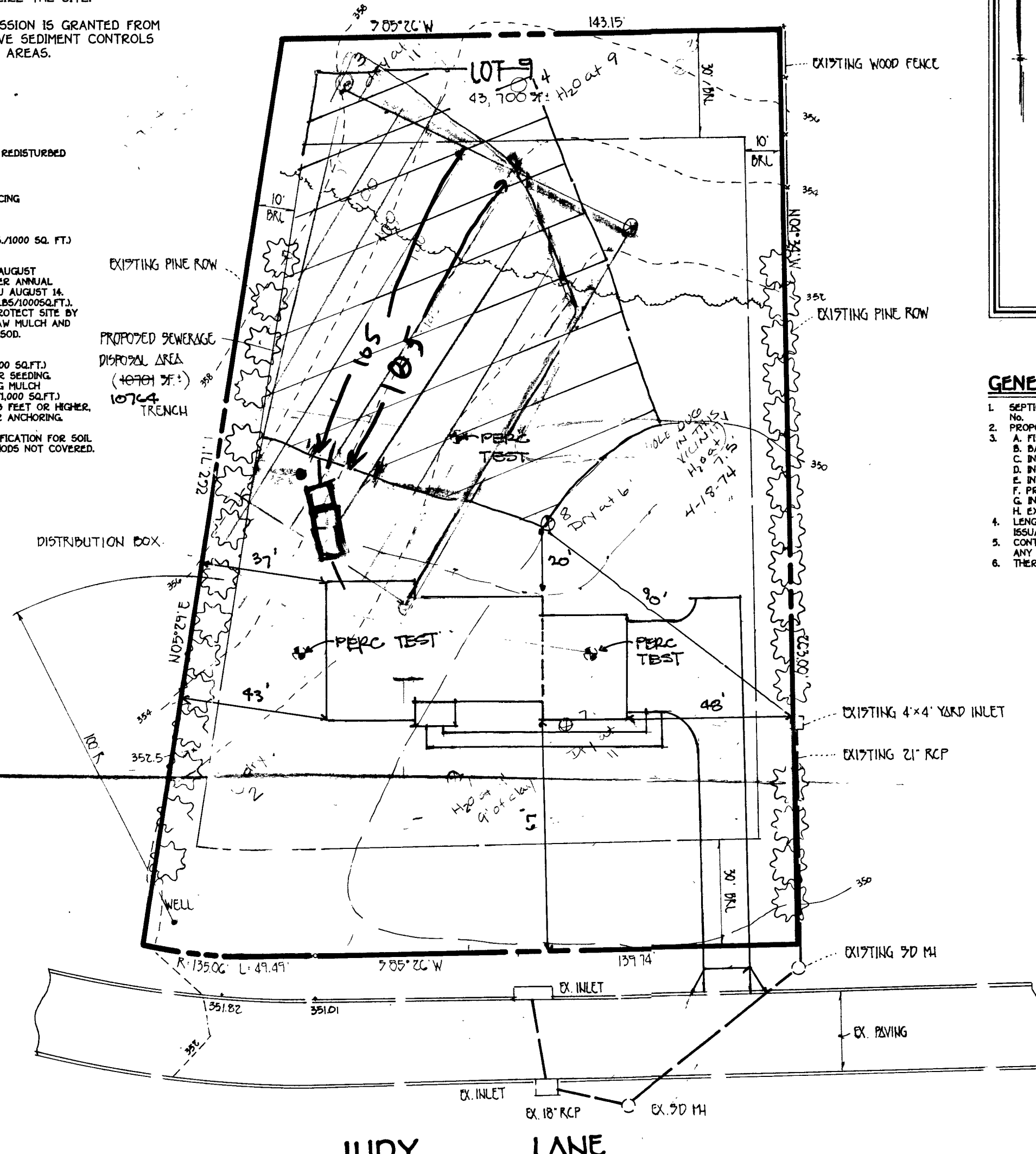
1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THICKNESS - NOT LESS THE SIX (6) INCHES.
4. WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE 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 ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BESH 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 EACH RAIN.

**STABILIZED CONSTRUCTION ENTRANCE - 2**  
NOT TO SCALE

**SILT FENCE**  
NOT TO SCALE

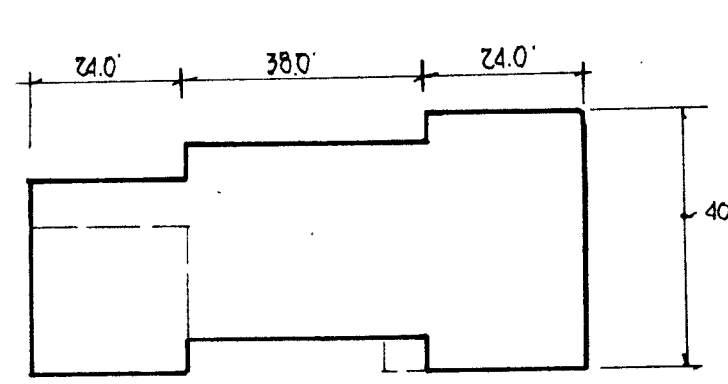
- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OF STAPLES.
  2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- STANDARD SYMBOL**
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
- FILTER CLOTH: FILTER X, HERRIT 100K, STABILUMKA TH ON OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOPAR, ENVIRONMENTAL, OR APPROVED EQUAL

**SILT FENCE**  
NOT TO SCALE



- GENERAL NOTES**
1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
  2. PROPOSED 1500 GALLON SEPTIC TANK.
  3. A. FIRST FLOOR ELEVATION: 355.00  
B. BASEMENT ELEVATION: 346.00  
C. INVERT OF SEPTIC SYSTEM AT HOUSE: 351.9  
D. INVERT IN AT SEPTIC TANK: 351.6  
E. INVERT OUT AT SEPTIC TANK: 351.3  
F. PROPOSED GRADE OVER SEPTIC TANK: 353.0  
G. INVERT AT DISTRIBUTION BOX: 351.0  
H. EXISTING GROUND OVER DISTRIBUTION BOX: 354.5
  4. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
  6. THERE IS NO BASEMENT SERVICE TO SEPTIC SYSTEM.

5-30-95  
proposal to move easement unacceptable  
- SDA must be on highest portion of lot  
- need to stay 25' off centerline of grade



PROPOSED ONE STORY, FOUR BEDROOM DWELLING

PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT  
**RIVERSIDE ESTATES**

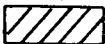
LOT 9  
ZONED R-20  
PARCEL 174  
HOWARD COUNTY, MARYLAND  
DATE: \_\_\_\_\_, 1995  
TAX MAP 41  
FIFTH ELECTION DIST.  
SCALE: 1" = 30'

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
9171 BALTIMORE NATIONAL PIKE, SUITE 100  
ELLICOTT CITY, MARYLAND 21042  
(410) 461-2855



NOTE:

EXISTING DWELLING

1.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT AS REQUIRED BY MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTILL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
2. ALL WATER WELLS ARE SHOWN WITHIN 100 FT. OF SEPTIC AREA.
3. THIS PROPERTY IS NOT IN THE METROPOLITAN DISTRICT.
4. TOPOGRAPHY IS REPRODUCED FROM HOWARD COUNTY GEODETIC CONTROL SURVEY AND TOPOGRAPHIC MAPPING, GENERAL COUNTY PROJECT C-4-0119, MAP 223-39.
5. CONTRACTOR TO VERIFY TOPOGRAPHIC ELEVATION BEFORE BEGINNING ANY CONSTRUCTION.
6. THIS PROPERTY IS CURRENTLY ZONED R-20 AND IS SUBJECT TO SECTION 10B OF THE HOWARD COUNTY, MARYLAND ZONING REGULATIONS.
7. FOUR (4) BEDROOM HOUSE WILL REQUIRE 840LF OF TRENCH.
8. LENGTH OF TRENCH PROVIDED = 840 LF.
9. PROPOSED HOUSE SITE WILL LIKELY REQUIRE PUMP SEPTIC SYSTEM TO REACH HIGH PORTION OF SEPTIC EASEMENT.
10. PERC TEST LOCATIONS FIELD LOCATED
11. LOT WAS PREVIOUSLY TESTED AND APPROVED 4/29/82. PURPOSE OF PLAT IS TO DEFINE SEWAGE DISPOSAL EASEMENT AS CONFIRMED BY RETEST OF 5/2/95

PERC CERTIFICATION PLAN

RIVERSIDE ESTATES

LOT 9





C1 2792 SEQUENCE NO. (MDÉ USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER A 50675

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM 'PERMIT TO DRILL WELL'

OWNER Timothy Dye STREET OR RD Judy Lane TOWN Simpsonville SUBDIVISION Riverside Estates SECTION LOT 9

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. Rows include Overburden, Soft Sand, Gray Rock, and water encountered at 280'.

NUMBER OF UNSUCCESSFUL WELLS: 0

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...

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 399

DRILLERS SIGNATURE: Paul M. [Signature]

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. MSD017

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

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES (Y) NO (N)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT (CM) BENTONITE CLAY (BC)

NO. OF BAGS 20 NO. OF POUNDS 2000

GALLONS OF WATER 120

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 60 ft.

CASING RECORD

MAIN CASING TYPE: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER)

Nominal diameter top (main) casing (nearest inch): 6

Total depth of main casing (nearest foot): 60

OTHER CASING (if used)

Table for other casing with columns for diameter (inch) and depth (feet).

SCREEN RECORD

screen type or open hole: ST (STEEL), BR (BRASS BRONZE), PL (PLASTIC), HO (OPEN HOLE), OT (OTHER)

C2 DEPTH (nearest ft.)

Table for depth measurements with columns for depth (nearest ft.) and rows for casing height (above/below land surface).

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

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

MDÉ 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) 3

PUMPING RATE (gal. per min.) 40

METHOD USED TO MEASURE PUMPING RATE: Submersible

WATER LEVEL (distance from land surface) BEFORE PUMPING 18 ft.

WHEN PUMPING 260 ft.

TYPE OF PUMP USED (for test): A (air), P (piston), T (turbine), C (centrifugal), R (rotary), O (other), J (jet), S (submersible)

PUMP INSTALLED: DRILLER WILL INSTALL PUMP (YES or NO) YES (Y) NO (N)

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)

PUMP HORSE POWER

PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height)

LAND SURFACE (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)

NA



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

Date: 5-4-95

Name: Pat Davis

Address: 9150 Baltimore National Pike

RE: PERCOLATION TEST RESULTS

APPLICATION #(s) A50675

PROPOSED USE: Existing Lot

[Subdivision, Recorded Lot, Adjustment to Recorded Sewage Easement]

PROPERTY ID: Riverside Est.

Lot 9 Tax Map 41 Pct. 174  
Audy Lane

Dear Pat Davis:

Percolation testing conducted 5-3-95 on the above referenced property indicated [unsatisfactory / limited satisfactory / satisfactory] soil conditions.

Evidence of a seasonally fluctuating water table was encountered during testing in all test holes.

Because of this A pumped septic system would be necessary to reach the highest part of the septic easement.

Copies of the percolation test results are enclosed.

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Further review is contingent upon submission by a registered engineer of a percolation certification plat showing actual locations and elevations of all excavated test holes and a suitable house and well site. The plat should also include the location of all existing wells and septic systems on the property as well as the location of any other relevant features such as streams, swales, or existing structures. A note must be included certifying that all wells and septic systems within 100' of property boundaries have been shown.

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This should be submitted within sixty (60) days to allow field verification if necessary. [If the proposal is for subdivision, a Groundwater Appropriations Permit must be approved prior to any plat approvals.] If you have any questions regarding this matter, please feel free to contact me at the above address or by calling 313-2640.

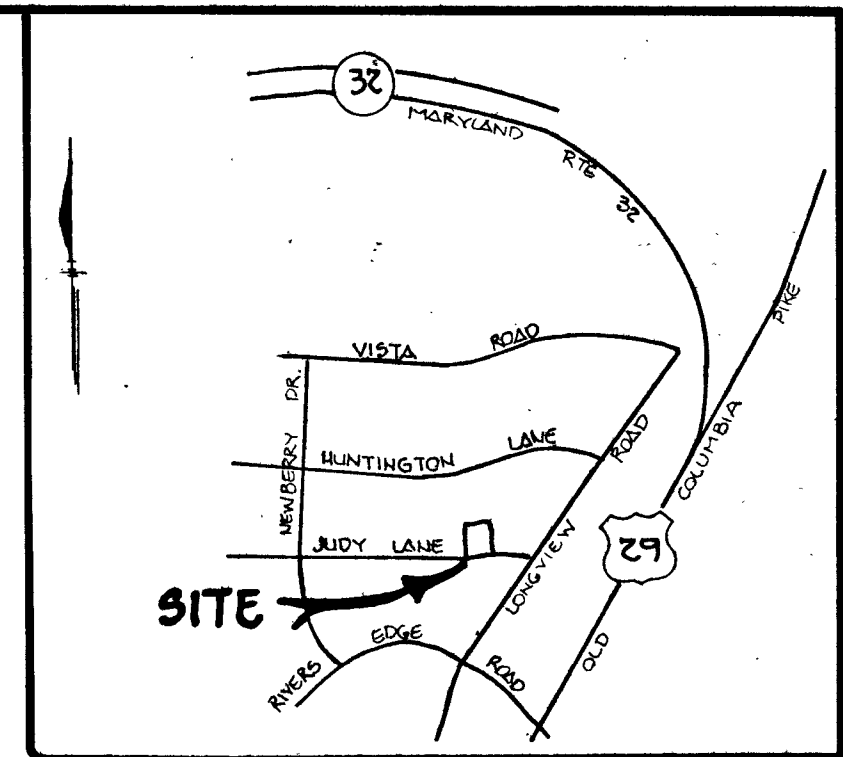
Very truly yours,

*Amy McMillan*  
Sanitarian  
Water and Sewerage Program

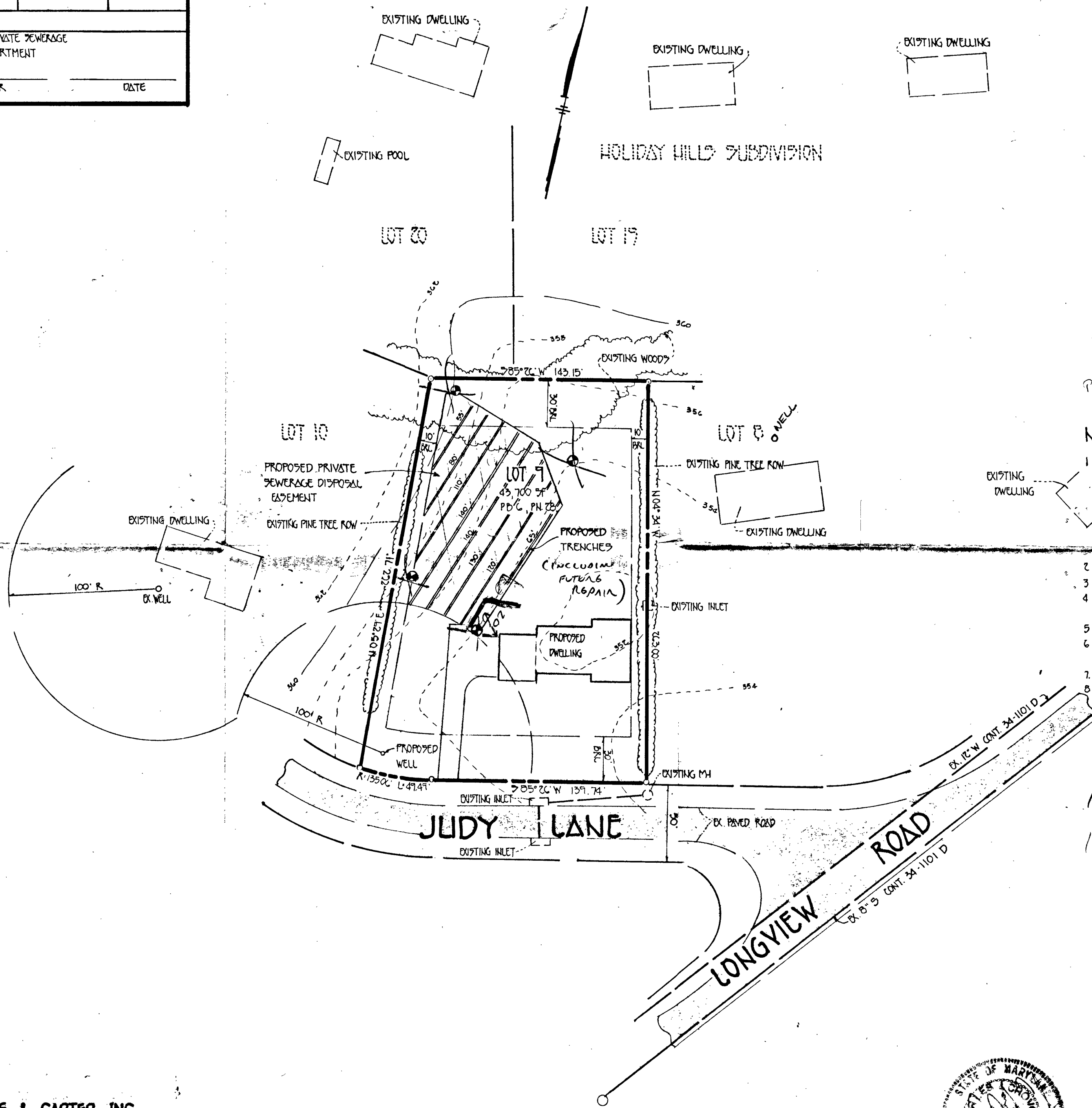
:dc  
Enclosures  
cc: ~~Tax Assessment Office~~  
Engineer  
Owner  
File

Program Supervisor's Review \_\_\_\_\_

LOT NUMBER	PREVIOUS LOT NUMBER	AVERAGE PERC TIME IN MINUTES PER SECOND INCH	MAX. DEPTH PERMITTED FOR EFFLUENT PIPE TO ENTER SEWAGE DISPOSAL AREA AT ITS HIGHEST ELEVATION WITH REFERENCE TO EXISTING GRADE AT TIME OF PERCOLATION TEST	
			INLET DEPTH (FT)	COUNTY NUMBER
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT				
COUNTY HEALTH OFFICER			DATE	



VICINITY MAP  
SCALE: 1" = 1000'



LOT WAS PREVIOUSLY TESTED AND APPROVED 4/29/82  
PURPOSE OF PLAT IS TO DEFINE SEWAGE DISPOSAL EASEMENT  
AS CONFIRMED BY RETEST OF 5/3/95

NOTE:

1. THIS AREA DESIGNATED A PRIVATE SEWERAGE EASEMENT ~~60,000~~ 50 FT. AS REQUIRED BY MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENT. RECORDED OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
2. ALL WATER WELLS ARE SHOWN WITHIN 100 FT. OF SEPTIC AREA.
3. THIS PROPERTY IS NOT IN THE METROPOLITAN DISTRICT.
4. TOPOGRAPHY IS REPRODUCED FROM HOWARD COUNTY GEODETIC CONTROL SURVEY AND TOPOGRAPHIC MAPPING, GENERAL COUNTY PROJECT C-4-0119, MAP 223-39.
5. CONTRACTOR TO VERIFY TOPOGRAPHIC ELEVATION BEFORE BEGINNING ANY CONSTRUCTION.
6. THIS PROPERTY IS CURRENTLY ZONED R-20 AND IS SUBJECT TO SECTION 100 OF THE HOWARD COUNTY, MARYLAND ZONING REGULATIONS.
7. FOUR (4) BEDROOM HOUSE WILL REQUIRE 840 LF OF TRENCH.
8. LENGTH OF TRENCH PROVIDED = 840 LF.

9. PROPOSED HOUSE SITE WOULD REQUIRE PUMPED SEPTIC SYSTEM TO REACH HIGH POSITION OF SEPTIC EASEMENT.
10. PERC TEST LOCATIONS FIELD LOCATED (perc locations shown are not the locations which were tested - 5-3-95)

PERC CERTIFICATION PLAN  
RIVERSIDE ESTATES

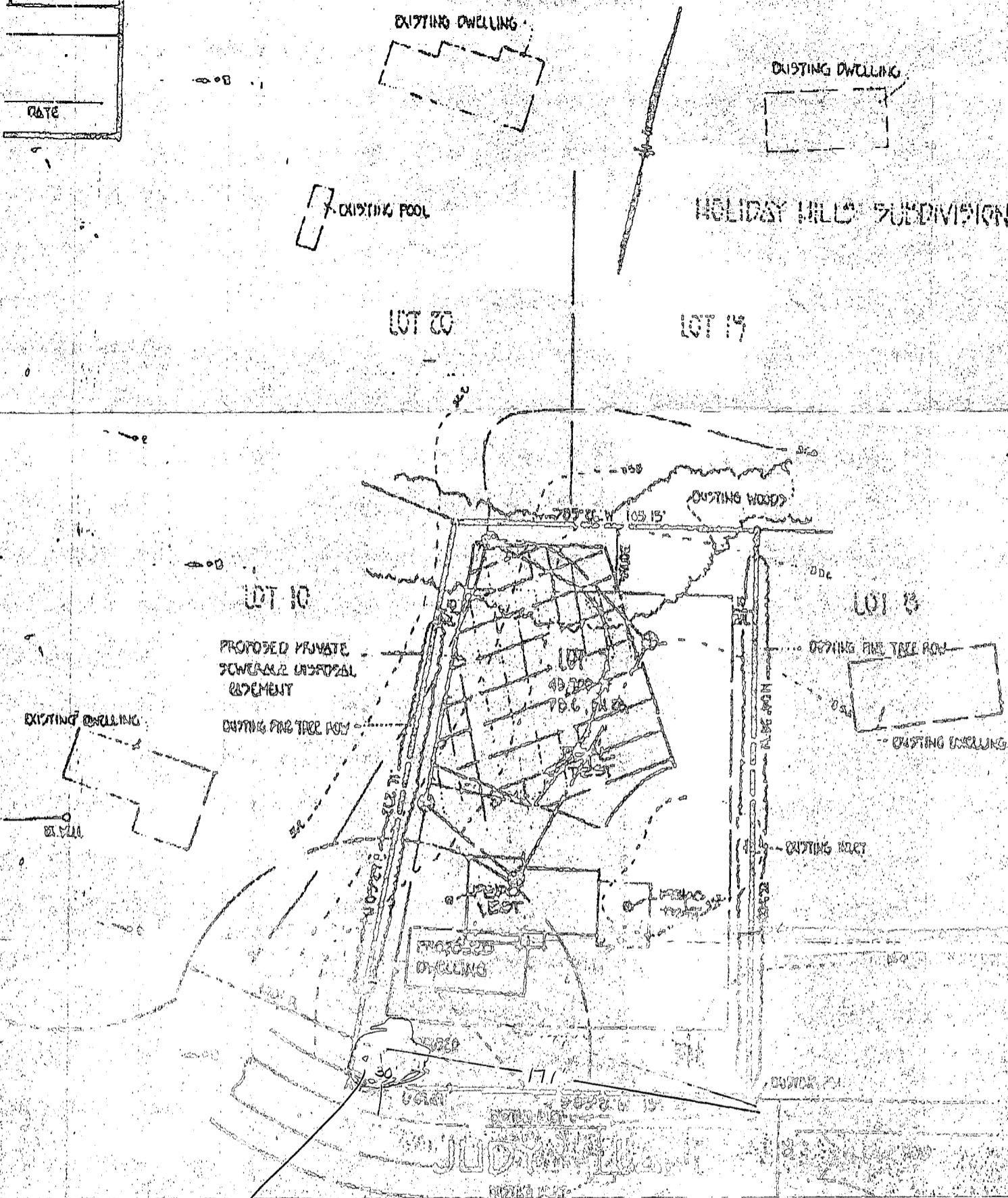
LOT 9

TAX MAP 41      ZONED R-20      PARCEL 174  
FIFTH ELECTION DIST      HOWARD COUNTY, MARYLAND  
SCALE: 1" = 50'      DATE: APRIL 25, 1995



FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
9171 BALTIMORE NATIONAL PIKE, SUITE 100  
ELLICOTT CITY, MARYLAND 21042  
(301) 481-2855

COUNTY NUMBER
DATE



7-27-95

Proposed well site

IS OK

Am

- yellow line is approvable area  
 - 3 bedroom house only -  
 for shown house site  
 4 bedroom home requires  
 moving house up to  
 front 20'  
 We start system here  
 using a 1500 gal  
 for 3-4 bedrooms  
 can get gray

INC.

**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: 5/19/96

**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. APPROVED:

DISTRICT HOWARD SOIL CONSERVATION DIST. \_\_\_\_\_ DATE: \_\_\_\_\_

**SEQUENCE OF CONSTRUCTION**

1. OBTAIN GRADING PERMIT.
2. INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN.
3. PERFORM NECESSARY GRADING AND STABILIZE THE SITE.
4. 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 (07 LBS./1000SQ.FT.) FOR THE PERIOD NOVEMBER 15 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 50D.

**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 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, 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 800 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 50 LBS./ACRE (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 15 THROUGH FEBRUARY 28, PROTECT SITE BY TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) - USE 50D, OPTION (3) - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEDED.

**MULCHING**

APPLY 1 1/2 TO 2 TONS PER ACRE (60 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 340 GALLONS PER ACRE (6 GAL./1000 SQ.FT.) FOR ANCHORING.

**MAINTENANCE**

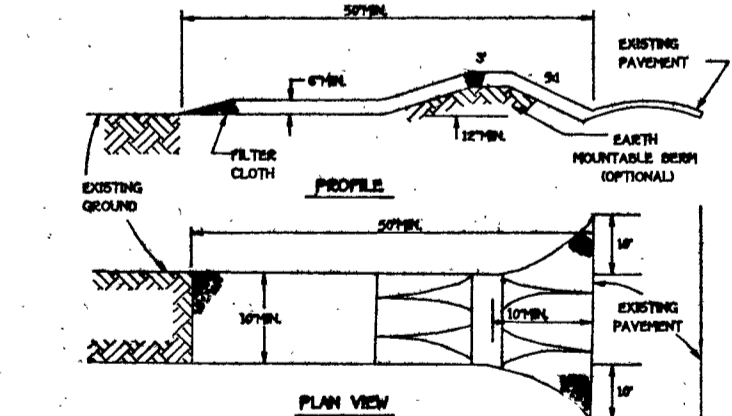
INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.

• FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWWEATCH 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.

**SEDIMENT CONTROL NOTES**

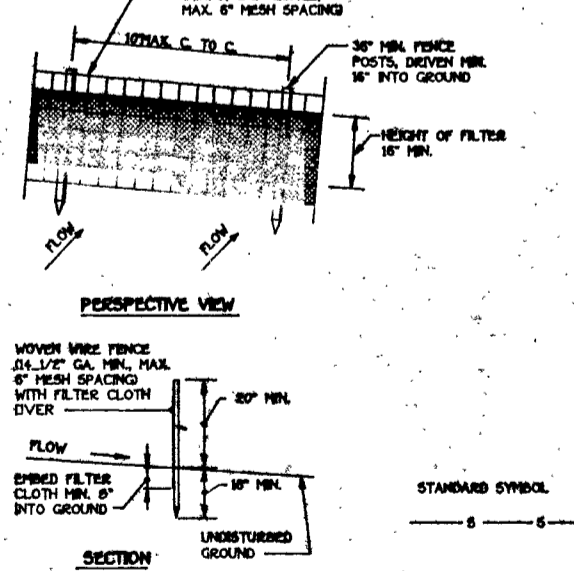
1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERMETER SEDIMENT CONTROL STRUCTURES, DICES, PERMETER SLOPES AND ALL GREATER THAN 3% TO 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS OF 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 HANDBOOK, STORM DRAINAGE. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 50 50D (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.
4. 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.
5. SITE ANALYSIS:
 

TOTAL AREA OF SITE	1.003 ACRES
AREA DISTURBED	0.19 ACRES
AREA TO BE ROOFED OR PAVED	0.07 ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.12 ACRES
TOTAL CUT	C.U.Y.DS.
TOTAL FILL	C.U.Y.DS.
6. OFFSITE WASTE/BORROW AREA LOCATION: C.U.Y.DS.
7. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GOING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
8. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
9. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERMETER 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.



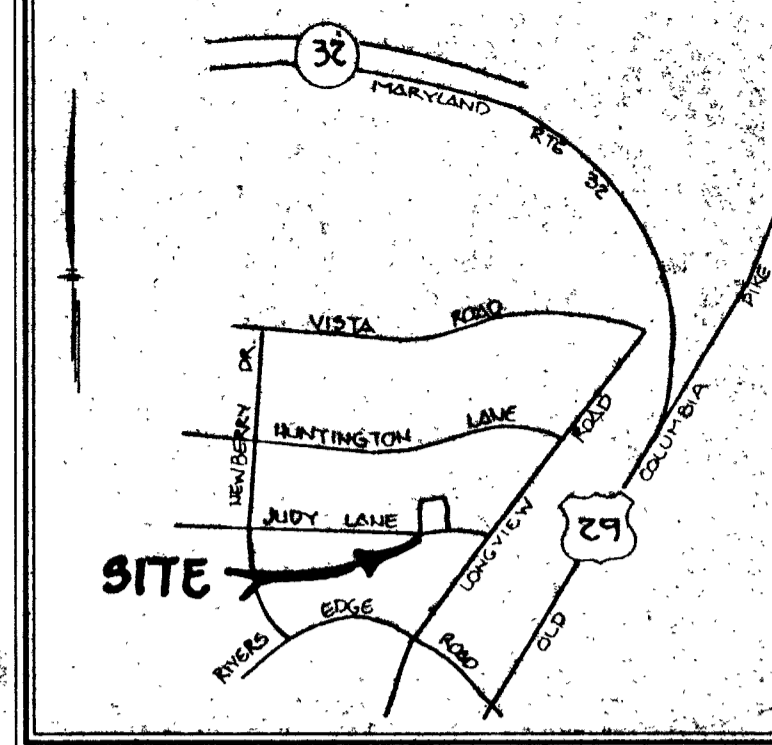
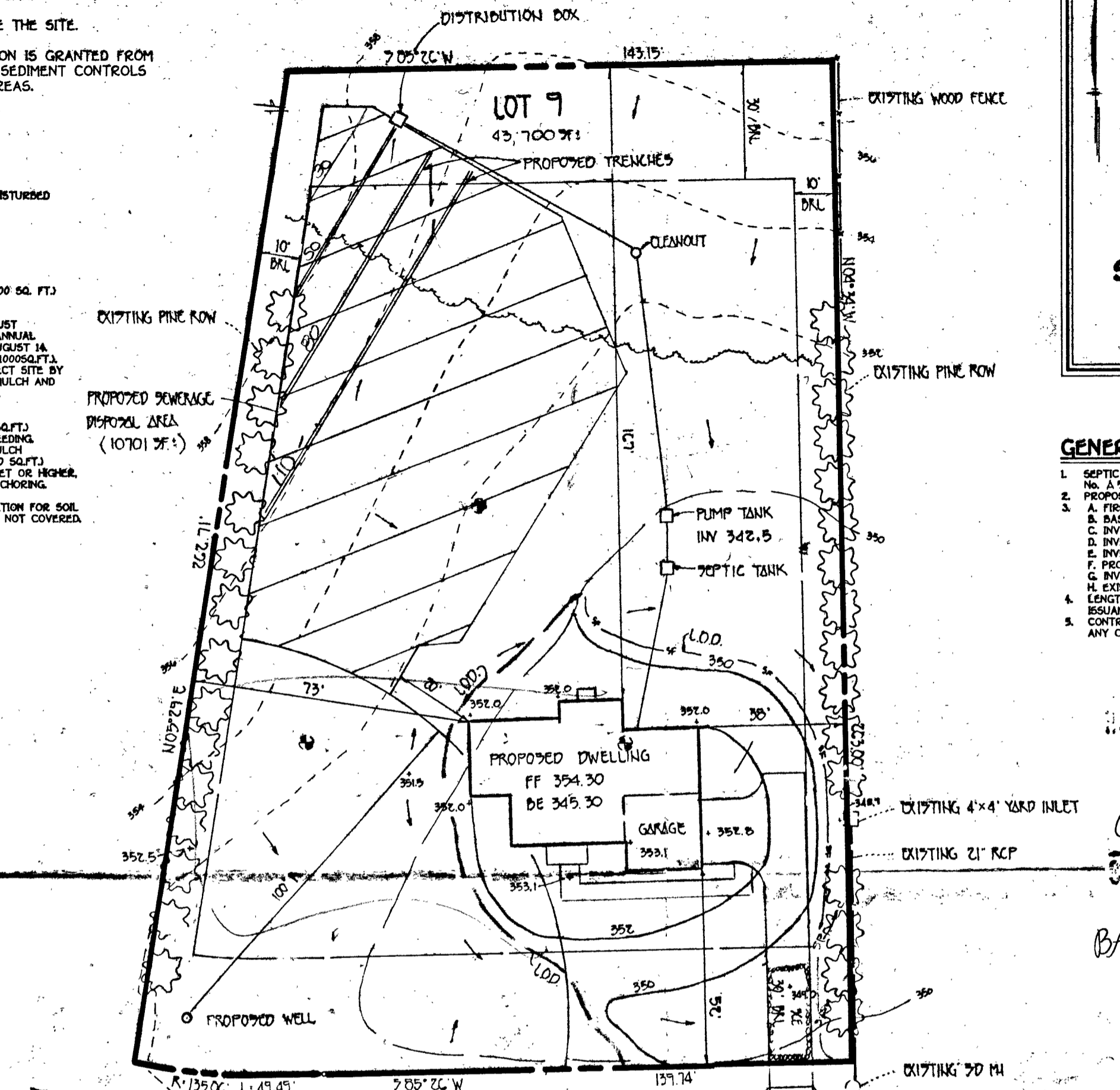
- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE - USE #1 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
  3. THICKNESS - NOT LESS THAN 60 INCHES.
  4. WIDTH - TEN 60 FOOT 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 ENTRANCES SHALL BE RIPPED ACROSS THE ENTRANCE. IF RIPPING IS IMPRACTICAL, A MOUNTABLE BEAM WITH 5% 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.

**STABILIZED CONSTRUCTION ENTRANCE - 2**  
NOT TO SCALE



- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "MUDS" DEVELOP IN THE SILT FENCE.
- STANDARD SYMBOLS**
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
  - FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING
  - FILTER CLOTH: FILTER #1, 19RAV1 SOIL STABILIZER TX ON OR APPROVED EQUAL
  - FABRICATED: UNFD, GEOTAF, GEOTREX, OR APPROVED EQUAL

**SILT FENCE**  
NOT TO SCALE



**VICINITY MAP**  
SCALE: 1"=200'

- GENERAL NOTES**
1. SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No. A 506-75
  2. PROPOSED 1500 GALLON SEPTIC TANK
  3. A. FIRST FLOOR ELEVATION 354.3  
B. BASEMENT ELEVATION 345.3  
C. DIVERT OF SEPTIC SYSTEM AT HOUSE 349.8  
D. INVERT IN AT SEPTIC TANK 345.0  
E. INVERT OUT AT SEPTIC TANK 346.7  
F. PROPOSED GRADE OVER SEPTIC TANK 349.0  
G. INVERT AT DISTRIBUTION BOX 354.0  
H. EXISTING GROUND OVER DISTRIBUTION BOX 357.0  
I. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
  5. CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.

Septic System Plan  
Howard County Health Department  
*[Signature]* 5/30/96  
Date



PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT  
**RIVERSIDE ESTATES**

LOT 9  
ZONED R-20  
TAX MAP 41  
FIFTH ELECTION DIST.  
SCALE: 1" = 30'

5/30/96  
PARCEL #4  
HOWARD COUNTY, MARYLAND  
DATE: APRIL 24, 1996

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
971 BALTIMORE NATIONAL PIKE, SUITE 100  
ELLICOTT CITY, MARYLAND 20848  
(410) 461-2855

Keith Fralich  
FROM FFIC

6-6-95

3 bedroom only

document will say such

~~show~~ ~~sew pump~~

1500 gal top sealed chambered

4 bedroom must move house

6-14-95

Chuck Crovo - FFIC

Wants a 4 bdrm house

Discussion - CROVO will

- show initial system: 2 repairs (4 bdrm = 840 total linear ft)
- possibly flip house so driveway and garage are on left
- if this is case - pump system regardless -

A. M. Miller

IS GRANTED FROM  
SEDIMENT CONTROLS  
REAS.

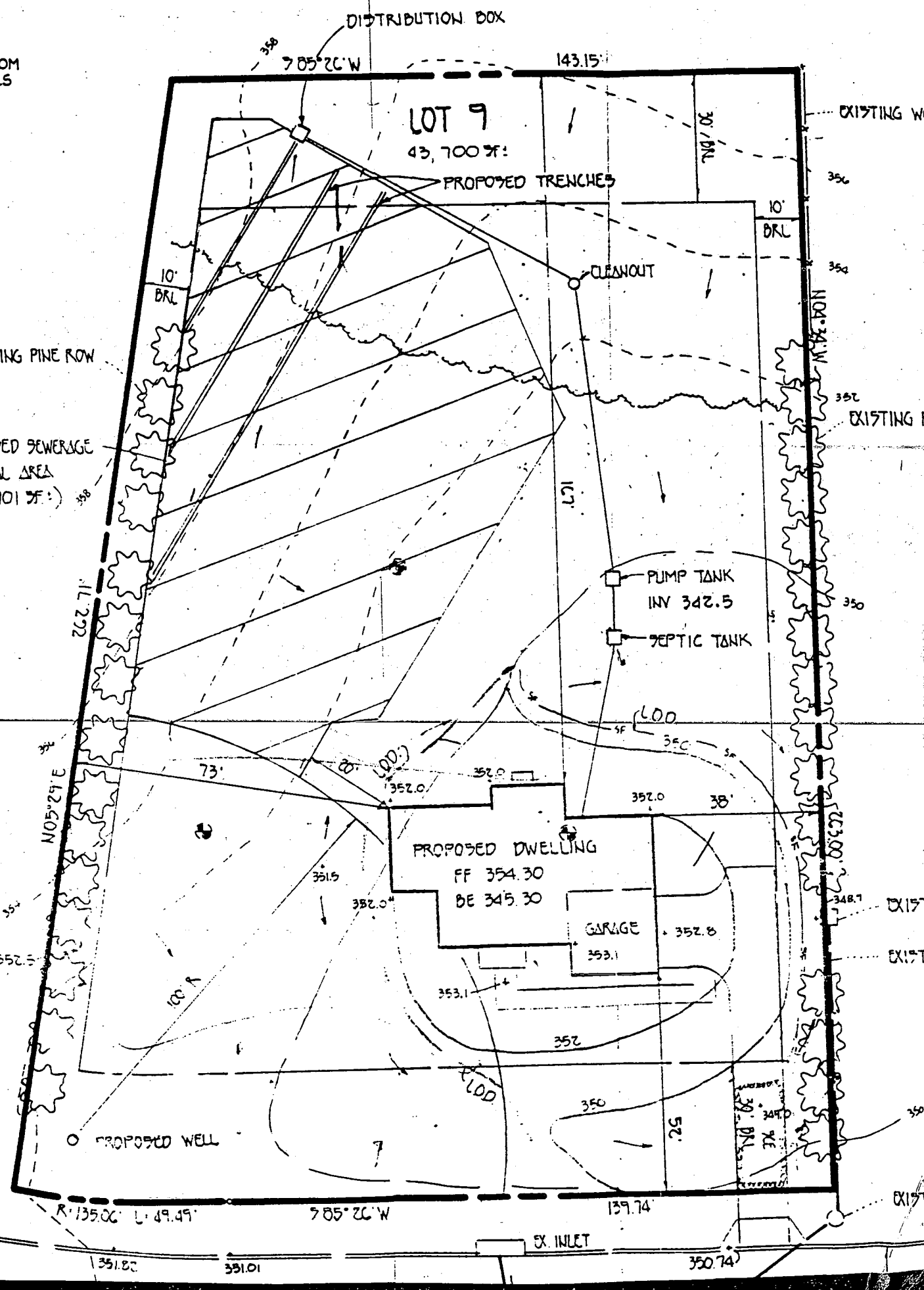
DISTURBED

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EXISTING WO

356

350

352

EXISTING P

350

EXIST

EXIST

EXIST

R 135.06' L 49.49'

W 785°26' W

EX. INLET

351.82

351.01

350.74