LEGEND

- CONCRETE MONUMENT
- ANGLE POINT
- BUILDING LINE
- EXISTING CONTOUR
- TEST HOLE
- PERC HOLE
- PROPOSED CONTOUR
- STAKED HAYBALES OR FILTER FABRIC

PERC RATE DATA:

PERC TEST 1
DEPTH 33" – PRESOAKED 10:05 AM – 6/27/91

TIME	READING	Δ READING
11:30	16-1/2	
11:35	17-1/4	6-3/4
11:40	20-1/4	3
11:45	22-1/2	2-1/4
11:50	24-1/4	1-3/4
11:55	25-3/4	1-1/2
12:00	27	1-1/4
12:05	28	1
12:10	29-1/8	1-1/8

PERC RATE = 4 MIN./INCH

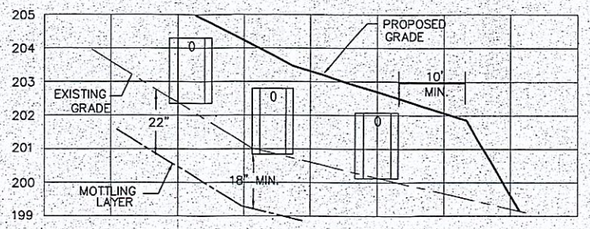
TEST HOLE DATA:

CONDUCTED MAY 30, 1991

TEST HOLE #1
0–8" TOPSOIL
8–48" RED SANDY LOAM
48–84" LIGHT BROWN FINE SAND
NO MOTTLING
NO LEDGE
NO WATER

TEST HOLE #2
0–8" TOPSOIL
8–36" RED SANDY LOAM
36–78" BROWN FINE SAND
MOTTLING @ 22"
WATER @ 78"
ROCK @ 78"

TEST HOLE #3
0–8" TOPSOIL
8–30" BROWN SILTY LOAM
30–76" FINE BROWN SAND
MOTTLING @ 30"
WATER @ 60"
NO LEDGE



SEPTIC CROSS-SECTION A–A
SCALE: HORZ. – 1"=10', VERT. – 1"=2'

GENERAL NOTES

1. REFERENCE IS MADE TO A MAP ENTITLED: BOUNDARY SURVEY, LAND OF DOROTHY B. FOLEY, EAST SHORE DRIVE, EAST HADDAM – CONNECTCIUT, SCALE: 1"=20' DATED JUNE 3, 1986BY JOEL M. FULLER, L.S.
2. THIS IS NOT A BOUNDARY SURVEY; REFER TO REFERENCE MAPS.
3. NO FUEL OIL TANKS TO BE BURIED WITHIN 75' OF ANY WELL.
4. DO NOT SCALE THIS DRAWING. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE.

SEPTIC NOTES

1. ALL DISTURBED AREAS TO BE STABILIZED.
2. IT IS THE RESPONSIBILITY OF THE INSTALLER (LIC. SEPTIC CONTRACTOR) TO CONSTRUCT THE SANITARY SYSTEM AS SHOWN ON THE FINAL APPROVED PLAN WITHOUT REVISIONS UNLESS PRIOR APPROVAL IS OBTAINED FROM BOTH THE DESIGNING ENGINEER AND LOCAL SANITARIAN.
3. IF THE INSTALLER FINDS CONDITIONS WORSE THAN THOSE SHOWN ON THIS PLAN, ALL WORK SHALL BE STOPPED IMMEDIATELY AND THE SANITARIAN AND ENGINEER CONTACTED FOR REVISIONS.
4. THE CONSTRUCTION OF THE SANITARY DISPOSAL SYSTEM AND ITS COMPONENTS SHALL COMPLY IN ALL RESPECTS WITH THE LATEST REVISION OF SECTION 19-13-B103A THROUGH 19-13-B103F OF "THE PUBLIC HEALTH CODE OF THE STATE OF CONNECTICUT AND OTHER DEPARTMENT REGULATIONS", AND THE DEPARTMENT OF HEALTH SERVICES, "TECHNICAL STANDARDS FOR DESIGN AND CONSTRUCTION OF SUBSURFACE SEWAGE DISPOSAL SYSTEMS".
5. PIPE FROM THE HOUSE TO THE SEPTIC TANK AND PIPE WITHIN 25' OF ANY UNDERDRAIN OR FOOTING DRAIN SHALL BE 4" PVC SCHEDULE 40 (ASTM D1785), UNLESS OTHERWISE NOTED. SOLID DISTRIBUTION PIPE AFTER SEPTIC TANK AND BETWEEN D-BOXES TO BE SDR-35 OR EQUAL; PERFORATED LEACHING PIPE TO BE IN ACCORDANCE WITH TABLE 5 OF THE CONNECTICUT PUBLIC HEALTH CODE.
6. ALL DEAD END PIPES SHALL BE CAPPED.
7. THE AREA OF THE LEACHING SYSTEM SHALL BE STRIPPED OF ALL TOPSOIL AND REPLACED WITH CLEAN BANK RUN GRAVEL COMPACTED IN 6" LIFTS. REMOVAL OF TOPSOIL AND PLACEMENT OF FILL SHALL EXTEND A MINIMUM OF 5' BEYOND THE LEACHING FIELD LIMITS.
8. SELECT FILL SHALL BE COMPRISED OF CLEAN SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES, MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHOULD NOT BE USED. THE FILL MATERIAL SHOULD NOT CONTAIN ANY MATERIAL LARGER THAN 3 INCHES. A SIEVE ANALYSIS SHOULD BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL UP TO 45% BY WEIGHT OF THE FILL MAY BE RETAINED ON A #4 SIEVE. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN DRIED AND REWEIGHED AND THE SIEVE ANALYSIS STARTED. THE SIEVE ANALYSIS MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE FOLLOWING SPECIFICATIONS:

SIEVE SIZE	% THAT MUST PASS SIEVE
#4	100%
#40	0–50%
#100	0–20%
#200	0–5%

ON-SITE FILL THAT DOES NOT VISUALLY APPEAR TO MEET THESE SPECIFICATIONS WILL REQUIRE A SIEVE ANALYSIS. IF THE SIEVE ANALYSIS INDICATES THAT THE FILL DOES NOT MEET THE STATED SPECIFICATIONS, THE ENGINEER WILL BE CONTACTED FOR FURTHER ASSSISTANCE.

9. NO WELLS EXIST IN THE VICINITY OF THE PROPOSED SEPTIC AREA UNLESS SHOWN ON THE PLAN.
10. THE FLOWLINE OF THE SEWER PIPE LEAVING A "HIGH-LEVEL OVERFLOW" BOX SHALL BE 6" HIGHER THAN THE INCOMING TRENCH.
11. BROKEN STONE IS NOT TO BE LESS THAN 3/4" AND NOT LARGER THAN 2". IT ALSO MUST BE FREE OF SILT, DIRT OR DEBRIS AND APPROVED BY THE LOCAL HEALTH OFFICIAL.
12. SEPTIC SYSTEM IS NOT DESIGNED FOR A KITCHEN GARBAGE DISPOSAL SYSTEM. THE HOMEOWNER SHOULD NOT, UNDER ANY CIRCUMSTANCES, INSTALL A BACKWASH LINE FROM A WATER TREATMENT UNIT OR A GARBAGE DISPOSAL SYSTEM TO THIS SEPTIC SYSTEM.
13. IT IS RECOMMENDED TO HAVE THE SEPTIC TANK PUMPED AND INSPECTED EVERY 3 TO 5 YEARS.
14. SYSTEM TO BE STAKED BY ENGINEER/SURVEYOR PRIOR TO START OF CONSTRUCTION.

DETAIL SILT FENCE
NTS

SEPTIC SYSTEM INVERTS

BASEMENT FLOOR	=	212.00	
MIN. INV. AT FOUNDATION	=	209.00	
INV. INTO TANK	=	205.25	
INV. OUT OF TANK	=	205.00	
TOP GALLERY ROW #1	=	204.67	
BOTTOM GALLERY ROW #1	=	202.67	EXIST. GRADE = 202.50
TOP GALLERY ROW #2	=	203.17	
BOTTOM GALLERY ROW #2	=	201.17	EXIST. GRADE = 201.00
TOP GALLERY ROW #3	=	202.42	
BOTTOM GALLERY ROW #3	=	200.42	EXIST. GRADE = 200.25

DEPTH OF RESTRICTIVE LAYER = 22"
THE BOTTOM OF THE LEACHING TRENCH NOT TO BE INSTALLED MORE THAN 4" INTO EXISTING GRADE

SECTION – LEACHING GALLERY
NOT TO SCALE

BASIS OF DESIGN:

DESIGN IS BASED ON CONNECTICUT PUBLIC HEALTH CODE, REGULATIONS AND TECHNICAL STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL SYSTEMS REVISED JANUARY 1, 1997.

THE SEPTIC SYSTEM SHOWN ON THIS PLAN IS BASED ON A 3 BEDROOM HOUSE WITH SOIL HAVING A PERCOLATION RATE OF 4 MINUTES PER 1 INCH. THE ABOVE CRITERIA REQUIRES A LEACHING AREA OF 495 SQUARE FEET. THIS SYSTEM REQUIRES A 1000 GALLON SEPTIC TANK.

MLSS REQUIRED = 28 (HF) X 1.5 (FF) X 1.0 (PF) = 42 LINEAR FEET
MLSS PROVIDED = 26' (HYDRAULIC ANALYSIS MAY BE REQUIRED)

PROVIDE 72 LINEAR FEET OF 24" HIGH CONCRETE GALLERIES, AS SHOWN IN DETAIL. THIS PROVIDES 530 SQUARE FEET OF EFFECTIVE LEACHING AREA.

LOT NO. 417

ASSESSOR'S MAP 80
EAST SHORE DRIVE
EAST HADDAM, CONNECTICUT

THIS DRAWING IS NOT TO BE DUPLICATED OR USED IN PART OR WHOLE FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF JESS J. McMINN SURVEYING.

GRAPHIC SCALE
0' 20' 40' 60'
(IN FEET)
1 inch = 20 ft.

THIS DRAWING IS INVALID UNLESS IT BEARS THE IMPRESSION SEAL AND ORIGINAL SIGNATURE OF THE PROFESSIONAL ENGINEER/SURVEYOR.

CERTIFIED SUBSTANTIALLY CORRECT:
FRANKLIN G. GRUSSY, P.E. 11659

NO.	DATE	DESCRIPTION
		REVISIONS

(860)537-5552
LAND SURVEYING
JESS J. McMINN
P.O. BOX 15 – COLCHESTER, CT.

PLOT PLAN
SCALE: 1" = 20'
DATE: AUGUST 18, 1999

–PREPARED FOR–
WILLIAM & DOROTHY FOLEY
22 OAK DRIVE
MARLBOROUGH, CONNECTICUT

SHEET 1/1
JOB # 91-075PP

D:\1991\91-075\91-075PP.dwg