ROOM HOUSE

FOR 4 BEDROOM

- 80 GAL

4.59 FT² REQ'D
.F.

OF WATER SUPPLY (PUBLIC
ED SYSTEM LOCATION IN
AND GRAVEL PACKED PUBLIC
PROPOSED SYSTEM LOCATION
WELLS: AND WITHIN 150 FT
THE CASE OF PRIVATE WATE

VEGETATED WETLANDS WITHIN
ITION ARE SHOWN.

RE TO BE REMOVED FROM
G FIELD AS SHOWN (CROSS
RIAL PURSUANT TO

OF ALL UTILITIES PRIOR
ON.
44-7233

USE A SHEA 1000 GAL. SEPTIC TANK OR APPROVED EQUIVALENT.

PUMPING IS TO BE ACCOMPLISHED BY ONE F.E. MYERS CO. MODEL SR4MC (0.4 H.P.) PUMP 55 G.P.M. @ 7.89 FT. T.D.H.) WITH MERCURY SWITCH TILT BULB CONTROLS AND A NEMA 1 SIMPLEX CONTROL PANEL WHICH IS TO BE LOCATED WITHIN THE DWELLING.

THE CONTROLS ARE TO BE FIELD ADJUSTED TO DISCHARGE 440 LIQUID FT. OR 110 GALLONS PER CYCLE.
(CLASS 2 SOIL: 4 DOSE/DAY x 110 GAL./DOSE = 440 GAL./DAY)

THE HIGH WATER ALARM IS TO BE POWERED BY A CIRCUIT SEPARATE FROM THE PUMP CIRCUIT.

THE STORAGE (317 GAL.) AVAILABLE IN THE PUMP CHAMBER BETWEEN THE ELEVATION OF PUMP CHAMBER INLET AND THE HIGH WATER ALARM IS IN EXCESS OF THE 24 HOUR STORAGE (440 GAL.) REQUIRED.

TOTAL HEAD
VERTICAL HEIGHT = 7.63
FRICTION LOSS
4 FT. - 2" PVC SCH 40 PIPE
AT 55 G.P.M. = 5.5/100' x 4 = 0.22
ADD 20% OF FRICTION LOSS FOR
FITTINGS AND VALVES 0.2 x .22 = 0.04
TOTAL PUMP HEAD = 7.89

within for support. The ends of the pipe are to be sealed to prevent effluent

h. Rail systems for pumps greater than 1 horsepower shall consist of 2" stainless steel pipes

i. Wiring shall be continuous to the building without the use of a junction box in the pump chamber. This includes wiring for the pump and the floats.

j. For effluent pump systems, there shall be a drain hole to allow effluent to drain back from the force main. The drain hole shall be installed after the check valve

k. The maintenance of all pump systems, solid or effluent shall be explained to the homeowner by the installer and/or builder prior to occupancy.

8/13/98
DTH 1-98

elev: 197.8

A	SL 10YR 3/2	12"
EST. H.L.W.T.	LS 7.5 YR 5/6	24"
2'6" C_1	MED. SAND	30"
C_2	FINE SAND	42"
C_3	MED COARSE SAND	
5'6"	WATER	
	10% GRAVEL	80"

SOIL EVALUATOR - RUSS WILSON
B.O.H. AGENT - BERNIE SULLIVAN

PERC - 48" DEED
2 MIN/INCH

LOCAL
VARIANCE REQUESTED:
FROM REG. 4 (GROUNDWATER ELEVATION
BOTTOM OF LEACHFIELD OFFSET TO GROUND
OR MOTTLING)
5 FT REQUIRED
4 FT PROVIDED

n. of f. COMFORT HOMES (L19, 16)

DRAINAGE DITCH

LOT 11

EXISTING SYSTEM SHOWN IN DASHED LINE, TO BE REMOVED

SHED

PROPOSED 1000 GALLON PUMP CHAMBER IN = 196.45

PROPOSED D-BOX IN = 200.75 OUT = 200.55

3'-2" PVC SCH 40

PROPOSED CLAY BARRIER TOP = 201

4' 4' 4' 43.0 10' 10' 14' 3'

22'+

PROPOSED LEACH FIELD
43' x 14' (602 S.F.)
INV. ST LINES = 200.51
TOP PEASTONE = 201.0
INV. END OF LINES = 200.3
BOTTOM OF BED = 199.3

BENCHMARK
TOP MAIN IN 24" ASH
ELEV. 200.00 (ASSUMED)

PROPOSED 1500 GALLON SEPTIC TANK IN = 196.85 OUT = 196.60

24" DEAD TO BE REMOVED

PATIO (elev = 198.5)

SLAB

2.5' exposed block wall

EXISTING DWELLING
HOUSE NO. 46 (3 BEDROOM)
*NEW DESIGN FOR 4 BEDROOM
TOP FND = 202.56
BASE FLR = 198.66

OUTL = 197.14

24" PINE

24" MAPLE

18" PINE

139.42

n. of f. COMFORT (L19, 16)

n. of f. DUFFY (L19, 12)

L 13

4 BEDROOM EXISTING DWELLING

OUTL = 197.14

21'-4" PVC SCH 40 IN = 196.85

1500 GALLON SEPTIC TANK

14'-9" PVC SCH 40 OUT = 196.60 IN = 196.45

1000 GALLON PUMP CHAMBER

4"-2" DWV FORCE MAIN

D-BOX
IN = 200.75
OUT = 200.55

PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
PAUL A MCNULTY
SANITARY
NO 34013
REGISTERED

9/17/98

SEWAGE DISPOSA
46 RUSSELL