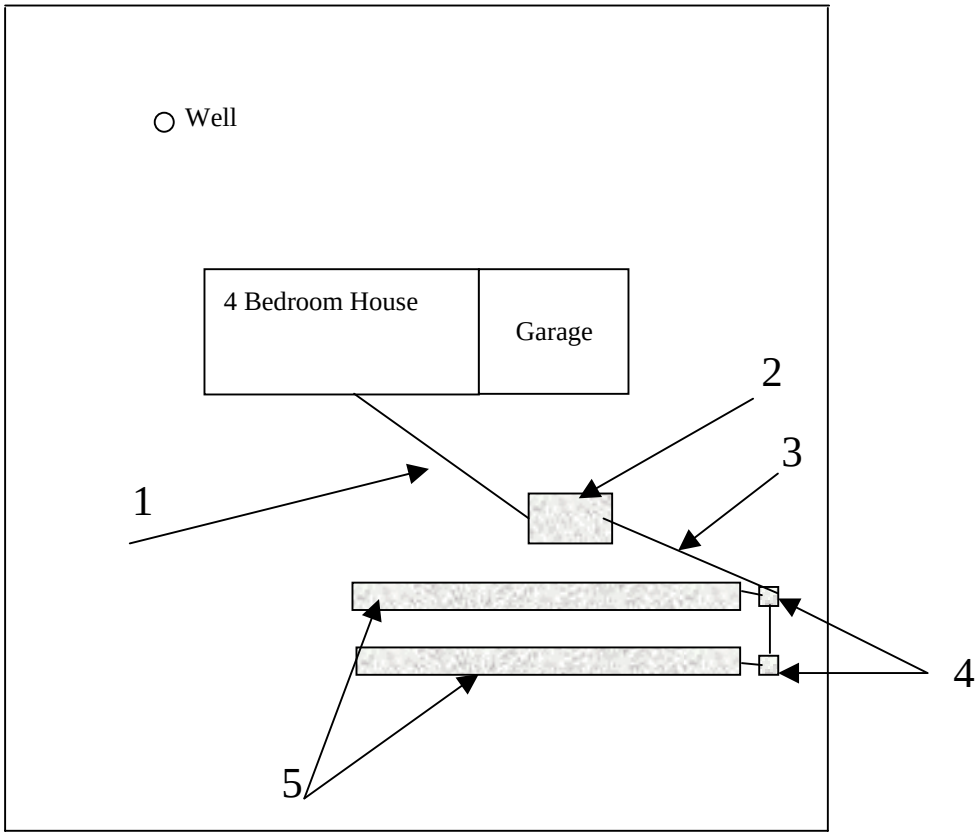
Name:_____

Classroom Exercise 1

SEPTIC SYSTEM COMPONENTS AND DISTANCES

1. Label the five different components of a septic system.
2. Indicate the minimum separation distances for:
    1. House (w/out drains)
    2. Garage (on slab, no rooms above)
    3. Well (withdraw rate of 7 GPM)
    4. Side Property line (no select fill)
    5. Utility Trench



Septic System Components	Separation Distances
1.	House: ft
2.	Garage: ft
3.	Well: ft
4.	Side Property Line: ft
5.	Utility Trench: ft

Classroom Exercise 2

Name:_____

FILL IN THE BLANKS

The proposed plan on ATTACHMENT A is for a 3 bedroom home. Answer the questions by referring directly to the drawing, as if you were actually reviewing the plan.

1. Is the well located properly per the Public Health Code? _____(yes or no) If no, why not? _____

2. Calculate the minimum drop required for the 4" diameter sewer pipe running between the foundation and the septic tank?
_____ (in inches); _____ (in feet)

3. How much effective leaching area is required for this proposal? _____ (SF)
4. How much effective leaching area is provided by this plan? _____ (SF)

5. What is the average slope of the ground in the sewage disposal area (two arrows shown on the plan)? _____ (%)

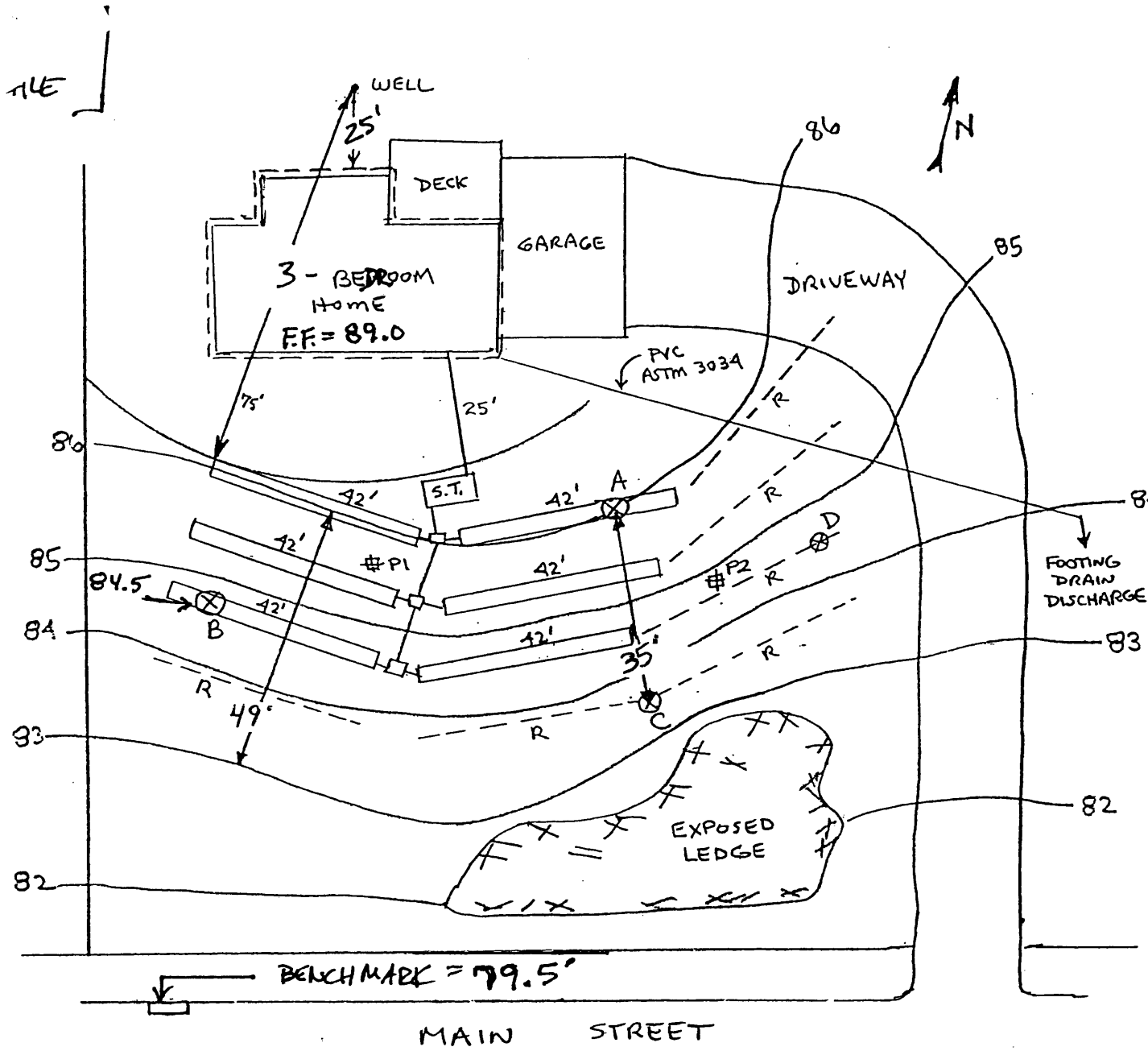
6. What is the Minimum Leaching System Spread (MLSS) required for this application?
MLSS= _____ (HF) X _____ (FF) X _____ (PF) = _____ (feet)

7. What is the general direction of the hydraulic gradient (slope) of the property? (north, south, east or west)_____

8. Based on the soil results from Test Pit B, how many inches above original grade will the minimum finish grade be for this system in the area of Test Hole B?
_____ (inches)

9. Has a suitable reserve area been provided? _____ (yes or no), if no, give reasons why not:
_____
_____

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM FOR A NEW RESIDENTIAL HOME



TEST RESULTS
MARCH 2, 1992

P1 = PERC RATE = 21 min/inch @ 24" DEPTH
P2 = PERC RATE = 26 min/inch @ 23" DEPTH

TH A
0-8" TOP SOIL
8"-36" L.B. MED TO FINE SAND
36"-63" MOTTLED MOD COMPACT FINE SAND
63" LEDGE
WATER SEEPAGE 36"

TH B
0-6" TOP SOIL
6"-24" R.B. MED TO FINE SAND
24"-48" MOTTLED MOD COMP. FINE SAND
48" LEDGE
SEEPAGE 30"

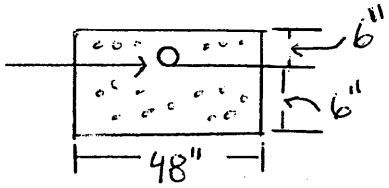
TH C
0-4" TOP SOIL
4"-12" REDDISH GRAY FINE SAND + SILT
12"-36" GRAY SAND
36" LEDGE
WATER SEEPAGE 24"
MOTTLING AT 24"

TH D
0-6" TOP SOIL
6"-30" RB FINE SANDS
30"-60" MOTTLED MOD. COMP. FINE SANDS
60" LEDGE
WATER SEEPAGE 36"

LEACHING SYSTEM

12" HIGH STONE TRENCHES

PIPE INVERT



252 L.F. OF PRIMARY SYSTE

ATTACHMENT A

Name:_____

Classroom Exercise 3

FILL IN THE BLANKS

The proposed plan on ATTACHMENT B is for a 85 seat restaurant serving lunch and dinner w/ restrooms.

1. What would be the design flow for this proposal? _____ (GPD)

2. What would be the minimum effective leaching area required for this proposal? _____ (SF)

3. What is the effective leaching area being provided on this plan? _____(SF)

4. What percentage of the minimum effective leaching area is being provided on this plan?_____(%)

5. What would be the minimum drop required for a 6-inch sewer line running between the building and the grease trap? _____(inches)

6. What minimum size septic tank is required by code for this application? _____ gallons

7. Is the grease trap size and configuration being provided on the plan acceptable per the PHC? (answer yes/no and provide an explanation)

_____

_____

_____

8. What is the average slope across the proposed leaching area? _____ (%)

9. What is the minimum center-to-center spacing required between each leaching system row?_____(feet)

10. The Minimum Leaching System Spread required for this application would be:

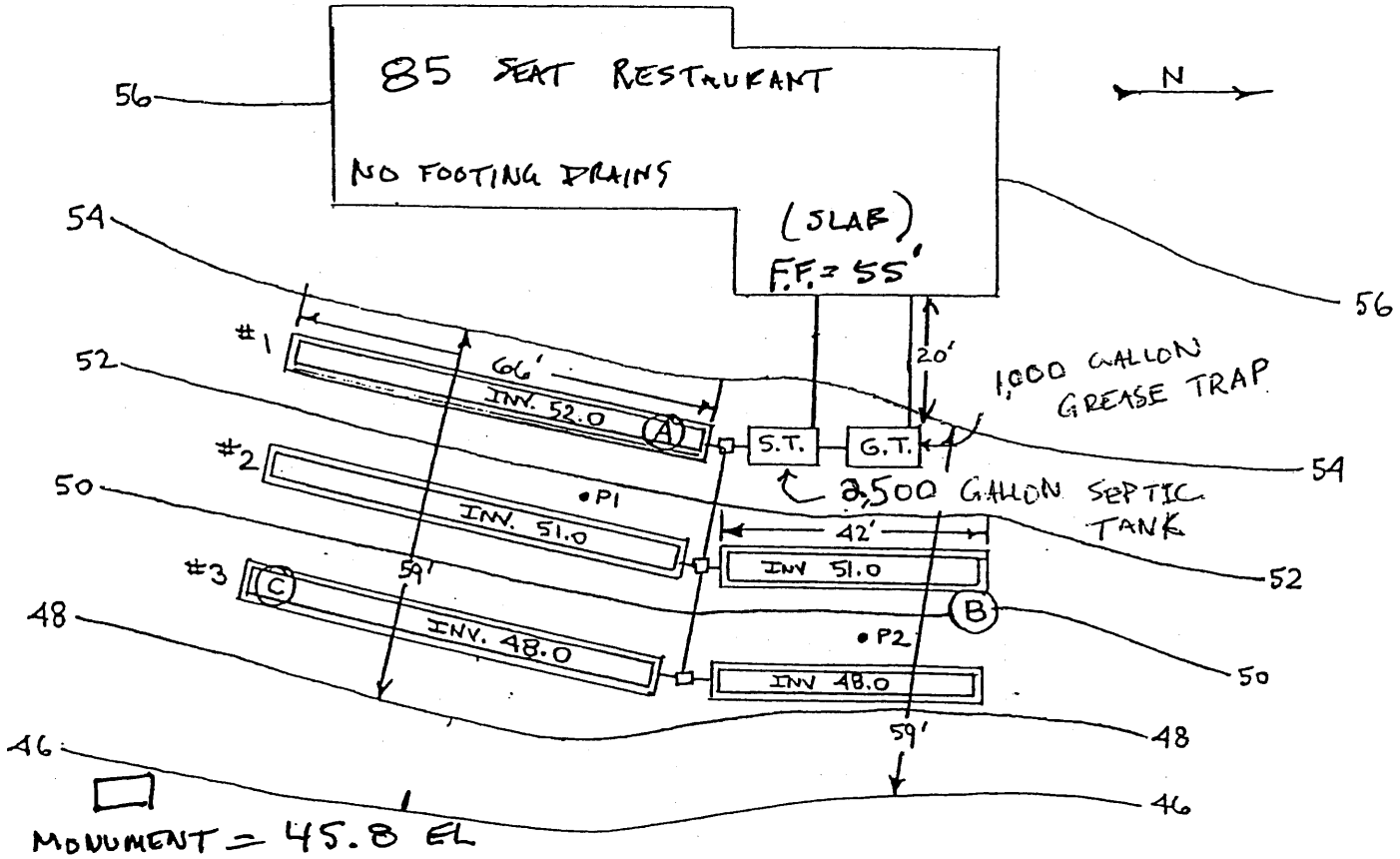
MLSS= _____ (HF) X _____ (FF) X _____ (PF) = _____ (feet)

11. What is the general direction of the hydraulic gradient (slope) of the property? (north, south, east or west)_____

12. Does this plan have to be sent to the State Dept. of Public Health for review and approval? _____ (yes or no)

PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM FOR A FAMILY RESTAURANT

[NOT TO SCALE]

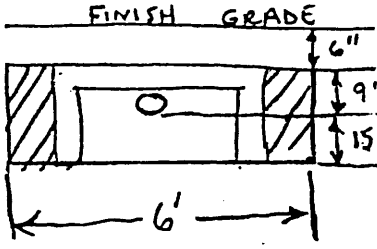


TESTED JUNE 1, 1994

TP A	TP B	TP C
0-8" TOP SOIL	0-6" TOP SOIL	0-5" TOP SOIL
8"-26" R.B. FINE SANDY LOAM	6"-20" R.B. FINE SANDY LOAM	5"-24" R.B. FINE SANDY LOAM
26"-54" LIGHT BROWN SANDS	20"-30" L.B. SANDS	24"-30" L.B. SANDS
54"-82" GRAY MOTTLED SILTY SAND	30"-48" GRAY MOTTLED FINE SAND + SILT	30"-42" GRAY MOTTLED SILTY SAND
WATER SEEPAGE 60"	WATER SEEPAGE 36"	42"-72" COMPACT SILT
MOTTLING AT 54"	MOTTLING AT 30"	WATER SEEPAGE 42"
LEDGE AT 82"	LEDGE AT 48"	MOTTLING AT 30"
		LEDGE AT 72"

PROPOSED LEACHING SYSTEM

24" HIGH GALLERIES



P1 = 19 MI @ 24" D
P2 = 24 MI @ 22" D
perc tests

282 L.F. OF 24" HIGH GALLERIES

NOTE: PUBLIC SEWERS WILL BE EXTENDED WITHIN 5 YEAR PERIOD.

ATTACHMENT B