FIELD EVALUATION SHEET

PRELIMINARY EVALUATION DATE _____, FIELD EVALUATION DATE _____
PROPERTY OWNER: JOHN + DEBBIE WICKLAND PHONE _____
ADDRESS: _____ CITY,STATE,ZIP: _____
LEGAL DESCRIPTION: _____
PIN# 24-0-044301 SEC 23 T 46 R 26 TWP NAME NORDLAND
FIRE# _____ LAKE/RIVER MONSON LAKE CLASS N.E. OHWL _____ FT.

DESCRIPTION OF SOIL TREATMENT AREAS

	AREA #1	AREA #2
DISTURBED AREAS	YES ___ NO X	YES ___ NO ___
COMPACTED AREAS	YES ___ NO X	YES ___ NO ___
FLOODING	YES ___ NO X	YES ___ NO ___
RUN ON POTENTIAL	YES ___ NO X	YES ___ NO ___
SLOPE %	0	
DIRECTION OF SLOPE	—	
LANDSCAPE POSITION		
VEGETATION TYPES	WOODED / OPEN AREA	

REFERENCE BM ELEV. 100 FT
REFERENCE BM DESCRIPTION GROUND LEVEL WHERE TANK IS LOCATED

DEPTH TO STANDING WATER OR MOTTLED SOIL: BORING# 1 78"+, 1A 78"+, 2 _____, 2A _____

BOTTOM ELEVATION--FIRST TRENCH OR BOTTOM OF ROCK BED: #1 _____ FT., #2 _____ FT.

SOIL SIZING FACTOR: SITE # 1 1.27, SITE #2 _____

CONSTRUCTION RELATED ISSUES: 1000 GALLON SEPTIC TANK, GRAVITY INTO TRENCHES

LIC# 127 SITE EVALUATOR SIGNATURE: Larry Liljenquist

SITE EVALUATOR NAME: LARRY LILJENQUIST TELEPHONE# 218-820-8886

PLUG REVIEW _____ DATE _____

Comments: _____

SOIL BORING LOGS ON REVERSE SIDE

Form des 2/20/98

TRENCH AND BED WORKSHEET

1. AVERAGE DESIGN FLOW

A. Estimated 450 gpd *(see figure A-1)*
or measured ___ x 1.5 *(safety factor)* = ___ gpd
B. Septic tank capacity 1000 gal *(see figure C-1)*

A-1: Estimated Sewage Flows in Gallons per Day				
number of bedrooms	Class I	Class II	Class III	Class IV
2	300	225	180	60% of the values in the Class I, II, or III columns.
3	450	300	218	
4	600	375	256	
5	750	450	294	
6	900	525	332	
7	1050	600	370	
8	1200	675	408	

2. SOILS *(Site evaluation data)*

C. Depth to restricting layer = 6 1/2 ft
D. Max depth of system Item 2C - 3 ft = 6 1/2 ft - 3 ft = 3 1/2 ft
E. Texture SAND Percolation rate 6-15 MPI
F. Soil Sizing Factor (SSF) 1.27 sqft/gpd *(see figure D-15)*
G. % Land Slope 0 %

C-1: Septic Tank Capacities (in gallons)			
Number of Bedrooms	Minimum Liquid Capacity	Liquid capacity with garbage disposal	Liquid capacity with disposal& lift inside
2 or less	750	1125	1500
3 or 4	1000	1500	2000
5 or 6	1500	2250	3000
7, 8 or 9	2000	3000	4000

3. TRENCH or BED BOTTOM AREA

H. For trenches with 6 inches of rock below the pipe:
A x F = ___ gpd x ___ sqft/gpd = ___ sqft
I. For trenches with 12 inches of rock below the pipe:
A x F x 0.8 = 450 gpd x 1.27 sqft/gpd x 0.8 = 457 sqft
J. For trenches with 18 inches of rock below the pipe:
A x F x 0.66 = ___ gpd x ___ sqft/gpd x 0.66 = ___ sqft
K. For trenches with 24 inches of rock below the pipe:
A x F x 0.6 = ___ gpd x ___ sqft/gpd x 0.6 = ___ sqft
L. For gravity beds with 6 or 12 inches of rock below the pipe;
1.5 x A x F = 1.5 x ___ gpd x ___ sqft/gpd = ___ sqft
For pressure beds with 6 or 12 inches of rock below the pipe;
A x F = ___ gpd x ___ sqft/gpd = ___ sqft

D-15: Soil Characteristics and Soil Sizing Factor (SSF) (> 3' separation)		
Percolation Rate minutes per inch (mpi)	Soil Texture	Soil Sizing Factor square feet/gallon per day(sqft/gpd)
faster than 0.1*	Coarse sand	0.83
0.1 to 5*	Medium sand	0.83
	Loamy sand	
0.1 to 5**	Fine sand	1.67
6 to 15	Sandy loam	1.27
16 to 30	Loam	1.67
31 to 45	Silt loam	2.00
	Silt	
46 to 60	Clay loam	2.20
	Sandy clay	
	Silty clay	
over 61 to 120***	Clay	4.20
	Sandy clay	
slower than 120****	Silty clay	

*Use systems for rapidly permeable soils: pressure distribution or serial distribution with no trench >25% of the total system.
**Soil having 50% or more fine sand plus very fine sand
***A mound must be used.
****An other or performance system must be used

4. DISTRIBUTION *(Check all that apply)*

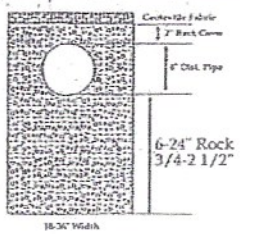
___ Bed (< 6% slope) X Drop boxes (any slope) X Rock
X Trenches ___ Distribution box (< 3%) ___ Chamber
___ Pressure ___ Gravity ___ Gravelless

D-9: Soil Characteristics and Soil sizing factors (SSF) for Gravelless Pipe		
percolation rate (minutes/inch)	soil texture	lineal feet/ gallon/day
Faster than 0.1 *	Coarse Sand	---
0.1 to 5	Medium Sand	0.28
	Loamy Sand	
0.1 to 5	Fine Sand **	0.6
6 to 15	Sandy Loam	0.42
16 to 30	Loam	0.56
31 to 45	Silt Loam	0.67
	Silt	
46 to 60	Clay Loam (CL)	0.74
	Sandy CL	
	Silty CL	
slower than 60***	Clay	---
	Sandy Clay	
	Silty Clay	

*Soil too coarse for sewage treatment. Use systems for rapidly permeable soils.
**Soil having 50% or more fine sand + very fine sand.
***Soil with too high a percentage of clay for installation of a standard inground system.

5. SYSTEM WIDTH, LENGTH and VOLUME

M. Select trench width = 3 ft
N. If using rock, divide bottom area by width: (H, I, J,K or L) ÷ M =
457 sqft ÷ 3 ft = 152 lineal feet
Rock depth below distribution pipe plus 0.5 foot times bottom area:
Rock depth in feet + 0.5 feet x Area (H,I,J,K, or L)
(1 ft + 0.5 ft) x 457 sqft = 685 cuft
Volume in cubic yards = cuft ÷27
685 cuft ÷ 27 = 25 cuyds
Weight of rock in tons = cubic yds x 1.4
25 cuyds x 1.4 = 35 tons
O. If using 10" Gravelless Pipe, Flow (A) x Gravelless SSF*(see figure D-9)*
___ gpd x ___ lineal feet/gpd = ___ lineal feet
P. If using Chambers, H,I,J, or K(based on hieght of chamber slats) ÷ width of chamber in feet(M)
___ sqft ÷ ___ ft = ___ lineal ft



6. LAWN AREA

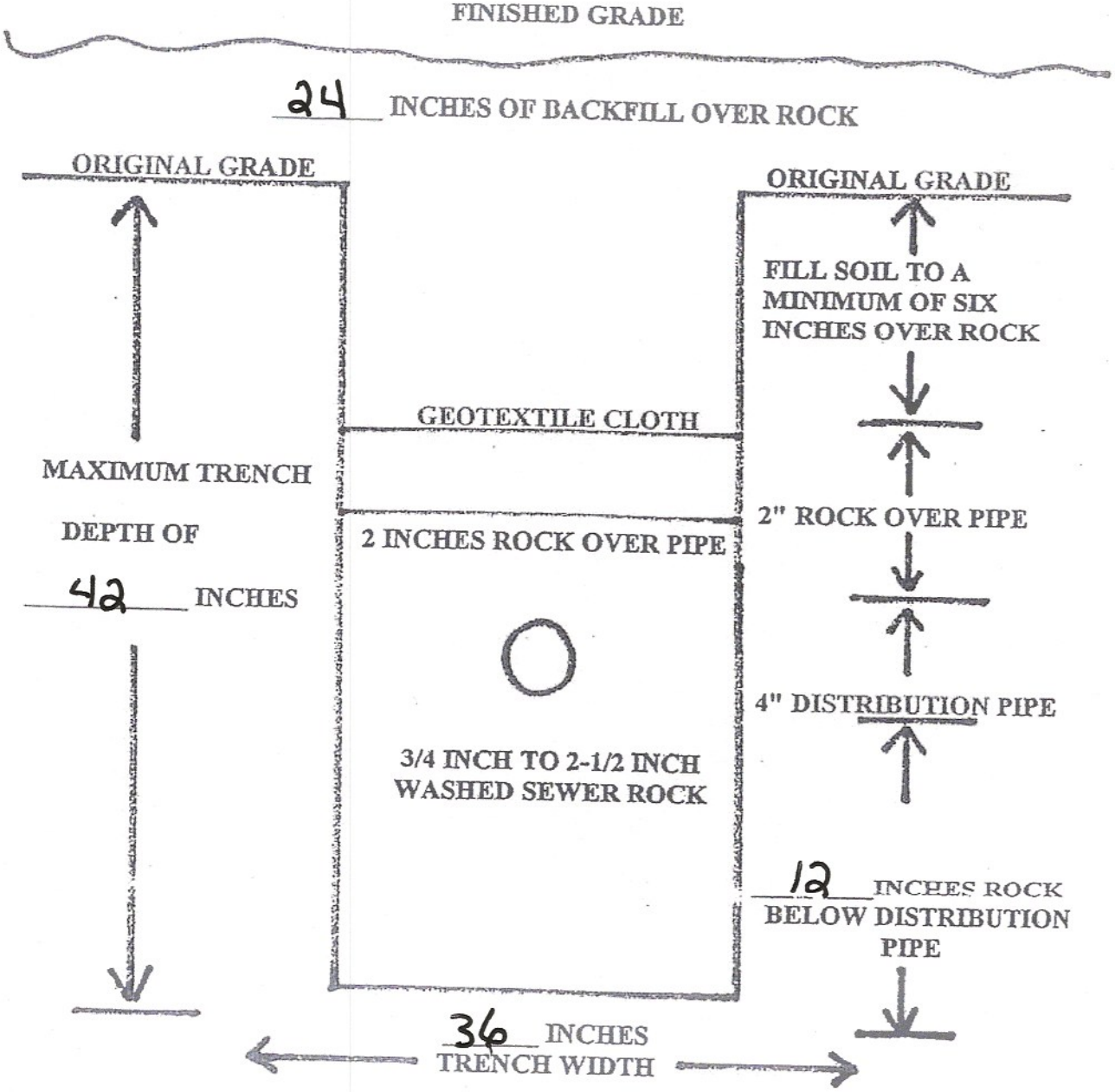
Q. Select trench spacing, center to center = 6 feet
R. Multiply trench spacing by lineal feet R x Q = sqft of lawn area
6 ft x 152 ft = 912 sqft

7. Include a drawing with scale (one inch = ___ ft). Show pertinent boundaries, right of way, easements, location of house, garage, driveway, all other imporvements, existing or proposed soil treatment system, well and dimensions of all elevations, setbacks and separation distances.

I hereby certify that I have completed this work in accordance with applicable ordinances, rules and laws.

Larry Hymgius (signature) 127 (license #) 9-21-19 (date)

TRENCH CROSS-SECTION



SOILS CHARTS FOR BOTH PROPOSED AND ALTERNATE SITES

1 (PROPOSED) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-48	SAND LOOSE STRUCTURE	10 YR 4/4
48-78	SAND GRAVEL	10 YR 4/6

NO MOTTLING

2 (PROPOSED) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR
0-6	TOPSOIL	
6-48	SAND LOOSE STRUCTURE	10 YR 4/4
48-78	SAND GRAVEL	10 YR 4/6

NO MOTTLING

1 (ALTERNATE) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR

2 (ALTERNATE) SOILS DATA

DEPTH (INCHES)	TEXTURE	MUNSELL COLOR

ADDITIONAL SOIL BORINGS MAY BE REQUIRED

1" = 40'

JOHN + DEBBIE WICKLAND