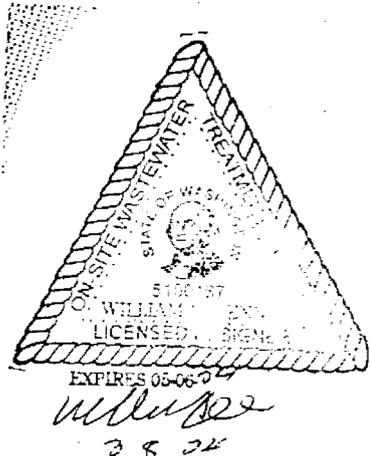
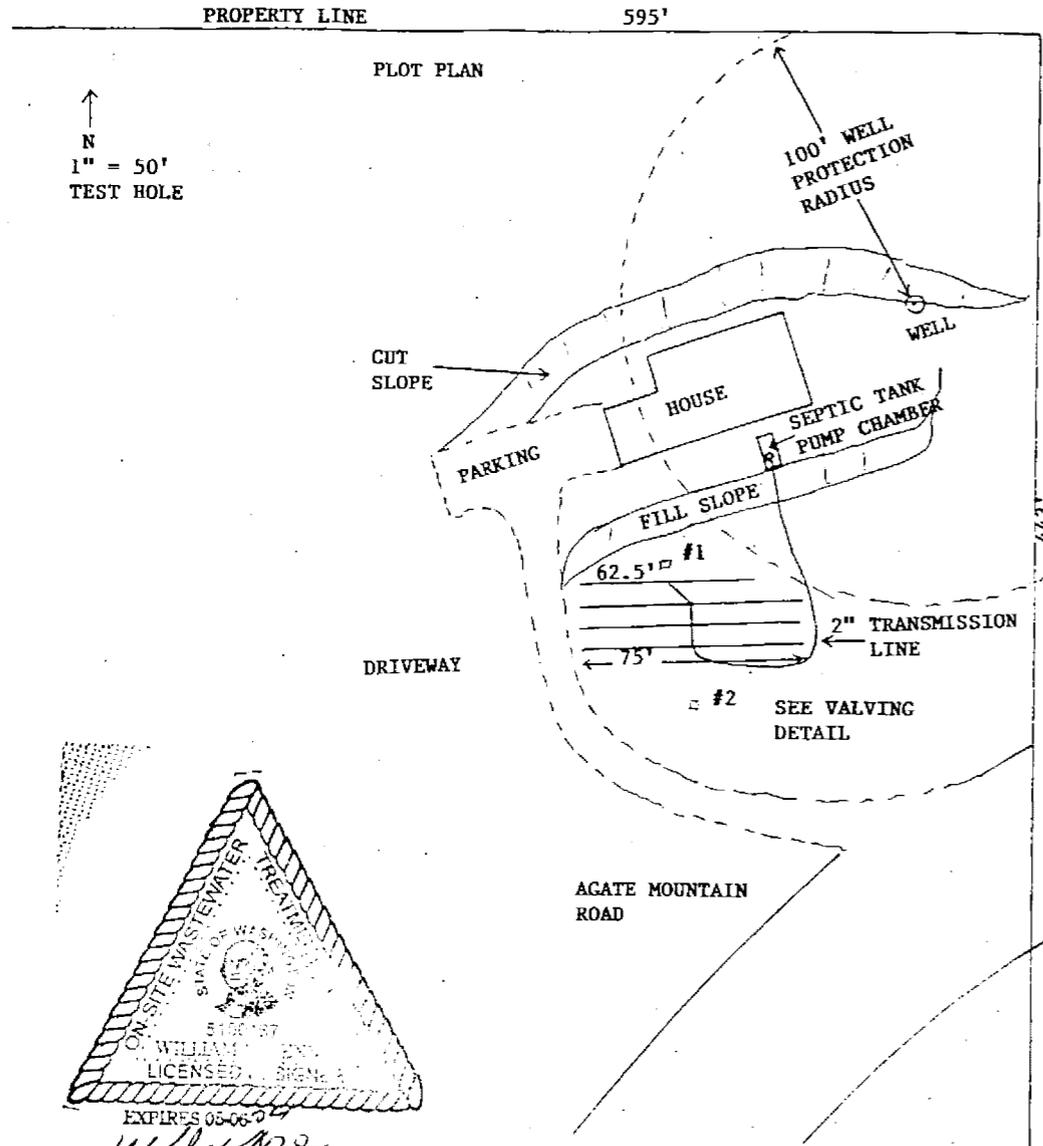
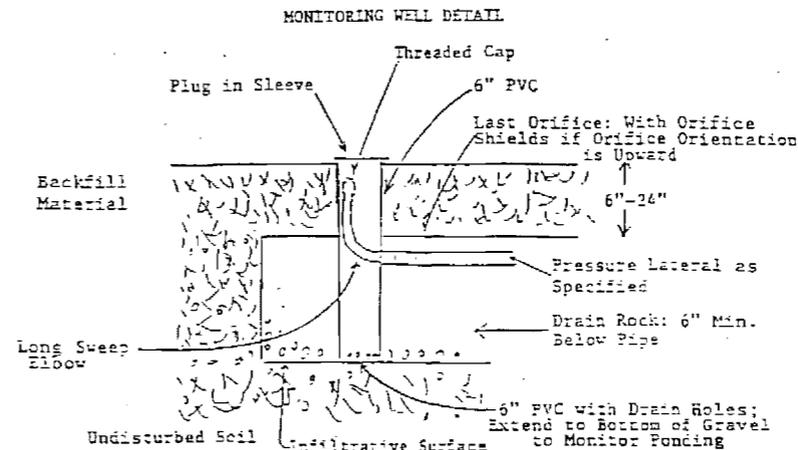


# PLANS AND SPECIFICATIONS FOR A PRESSURE INJECTION SEPTIC SYSTEM FOR A 3 BEDROOM HOME AT 218 AGATE MOUNTAIN ROAD SHEET 2 OF 3



- V. Pressurization System
- Septic Tank – compartments one and two of Sound Redi-Mix 3-compartment tank.
  - Pump Chamber – third compartment of Sound Redi-Mix 3-compartment tank.
  - Switch – Myers ASW-1 (or equivalent) set to dose when three hundred sixty (360) gallons accumulates above pump on switch (33" drawdown).
  - Pump – Grundfos EF-75 (or equivalent) providing 40 g/m at fifteen foot (15') head and meeting following requirements:
    - Shall be capable of passing a three-quarter inch (3/4") sphere.
    - Shall have a minimum one and one-half (1 1/2") diameter discharge.
    - Shall be equipped with a closed-frame motor and switches.
    - Pump may be oil-filled submersible or vertically mounted column pump.
    - Impellers to be cast iron, bronze, or other corrosion-resistant materials.
    - To be located at an elevation lower than or equal to the distribution line.
    - To be placed in one-eighth inch (1/8") mesh plastic basket. Basket shall be above the pump "on" switch.
- VI. Alarm – SJS Electro Pump Alert, or equivalent, audiovisual alarm.
- VII. Monitoring wells shall be placed at the ends of all drainfield lines.
- VIII. Inspection shall be performed by the designer at the expense of the owner at the completion of the construction. It shall be the responsibility of the owner or his contractor to schedule the inspection, including the pressure test and any inspection to be conducted by County.

NOTE: No changes are to be made in this design without prior written approval of the designer, which will not be given without County approval.



-SITE CHARACTERISTICS-

Topography: General Topographic Characteristics WEST FACING SLOPE  
 Drainage Characteristics: WELL DRAINED

Slopes: General 0 - 50 %; Proposed Drainfield Location 4 - 6 %

Geology: Type of Bedrock & Depth ANDESITE

Vegetation: CLEARED FOREST

Distance to, and type of, nearest surface water: NA  
 (If Less than 250 Feet)

Distance to nearby wells: 100'+  
 (If Less than 250 Feet)

Distance to public sewers: NA  
 (If Less than 250 Feet)

Other structures on property: NONE

-SOIL SERIES-

As mapped by U.S. Soil Conservation Service: OmB

Appears to be (if different from S.C.S. Classification): \_\_\_\_\_

-SOIL LOGS

| <u>Depth #1</u> | <u>Description</u>     | <u>Comments</u>        |
|-----------------|------------------------|------------------------|
| <u>0 - 38</u>   | <u>SILT LOAM</u>       | <u>WELL STRUCTURED</u> |
| <u>38 - 60</u>  | <u>SILTY CLAY LOAM</u> | <u>MOTTLED</u>         |
|                 |                        |                        |
|                 |                        |                        |
| <u>Depth #2</u> | <u>Description</u>     | <u>Comments</u>        |
| <u>0 - 39</u>   | <u>SILT LOAM</u>       | <u>WELL STRUCTURED</u> |
| <u>39 - 48</u>  | <u>SILT LOAM</u>       | <u>MOTTLED</u>         |
| <u>48 -</u>     | <u>SILTY CLAY LOAM</u> | <u>MOTTLED</u>         |
|                 |                        |                        |
| <u>Depth</u>    | <u>Description</u>     | <u>Comments</u>        |
|                 |                        |                        |
|                 |                        |                        |
|                 |                        |                        |

-MAXIMUM SEASONAL GROUNDWATER ELEVATION

Soil Mottling 38" - 39"  
 (Depth Found & Degree of Development)

COMMENTS: \_\_\_\_\_

Water Table NOT FOUND  
 (Depth to Standing Water)

5100167

WILLIAM G. DENNIS  
 LICENSED DESIGNER

EXPIRES 05-06-2004

STATE OF WASHINGTON  
 WASTE WATER TREATMENT

RECEIVED  
 FEB 19 2004  
 COWITZ COUNTY  
 ENGINEERING

*Handwritten signature and date: 2/19/04*

