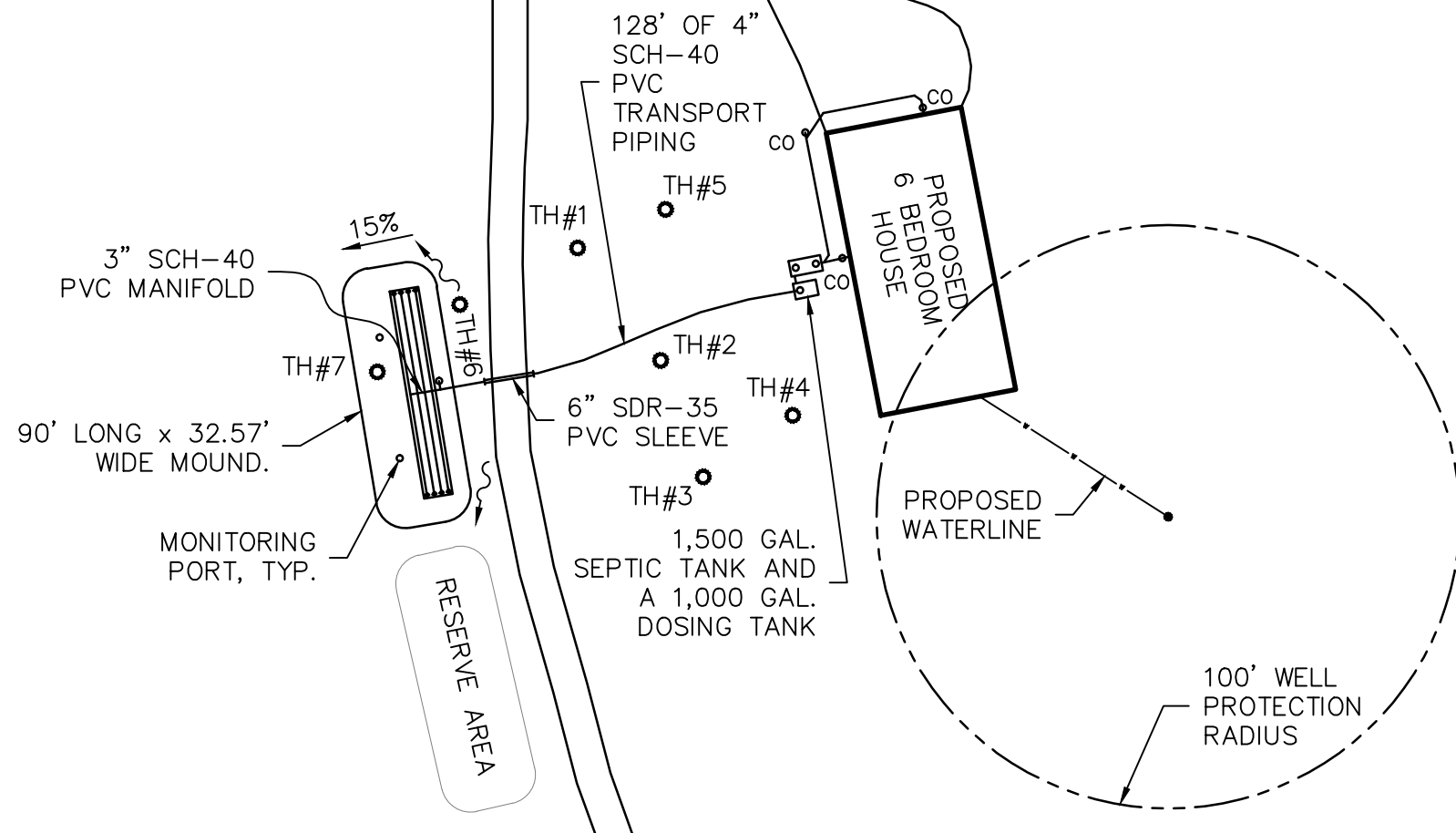
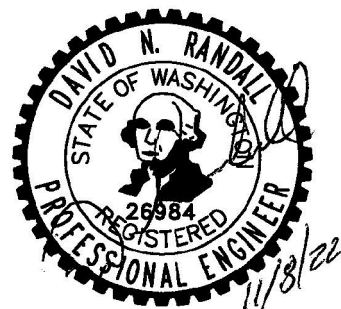
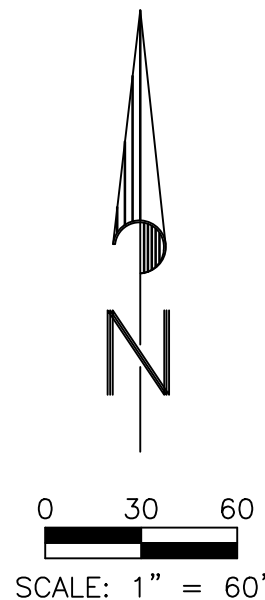


APPLICATION NO. 22-18483

TAX PARCEL #54303.9023

SEWER SYSTEM CALCULATIONS

BASAL SOILS ARE: SILT LOAM
BASAL SLR: 0.40 GAL/SF/DAY
DESIGN FLOW: 720 GAL/DAY (6 BEDROOMS)
ASTM C-33 SLR: 1.0 GAL/SF/DAY
REQUIRED BED SIZE: 720 SF
REQUIRED BASAL AREA: 1800 SF
PROVIDED BASAL AREA: 1898 SF



CONSTRUCTION NOTES:

1. PROVIDE A MINIMUM DISTANCE OF 5' FROM THE SEPTIC TANK AND DOSE TANK TO THE HOUSE.
2. PROVIDE A MINIMUM SEPARATION OF 10' BETWEEN ALL WATER AND SEWER LINES.
3. THE MOUND AREA SHALL BE PROTECTED FROM LARGE HOOVED ANIMALS.
4. PROVIDE A MINIMUM SETBACK OF 5' FROM THE TOE OF THE MOUND TO PROPERTY LINES AND DRIVEWAYS.
5. PROVIDE A MINIMUM OF 10' OF SEPARATION BETWEEN THE TOE OF THE MOUND AND ANY BUILDING FOUNDATION OR WATERLINE.

LEGEND

TH #3 ○ = CENTER OF TEST PIT

NOTE: THIS IS NOT A SURVEY. THE PROPERTY LINE DIMENSIONS SHOWN WERE OBTAINED FROM ASSESSORS MAPPING.

SEPTIC TANK AND DRAINFIELD PLAN

SCALE: 1" = 60'

NOTE: ELEVATIONS ARE BASED ON AN ASSUMED ELEVATION OF 100.00' AT THE HOME FINISHED FLOOR.

NOVEMBER 8, 2022

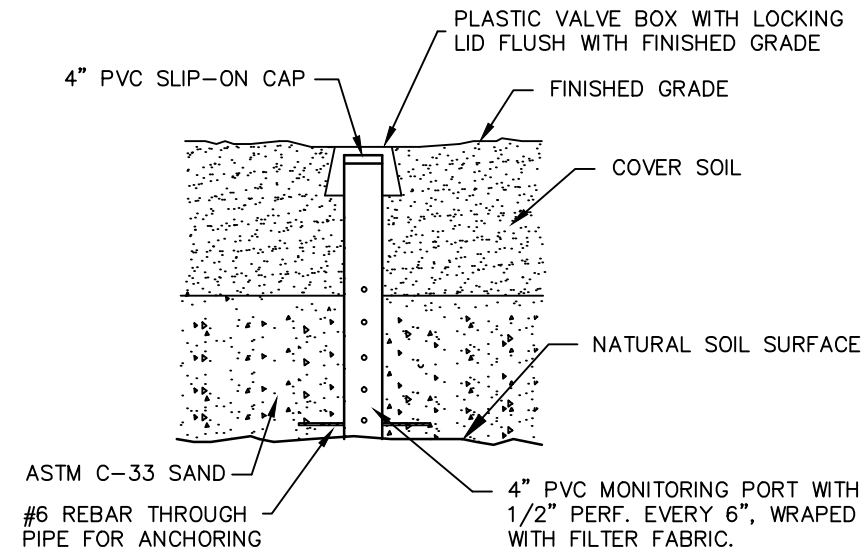
David N. Randall, Civil Engineer

521 W. Cameron Road, Spangle, Washington 99031
Cell: (509) 951-7411 Fax: (509) 357-1812

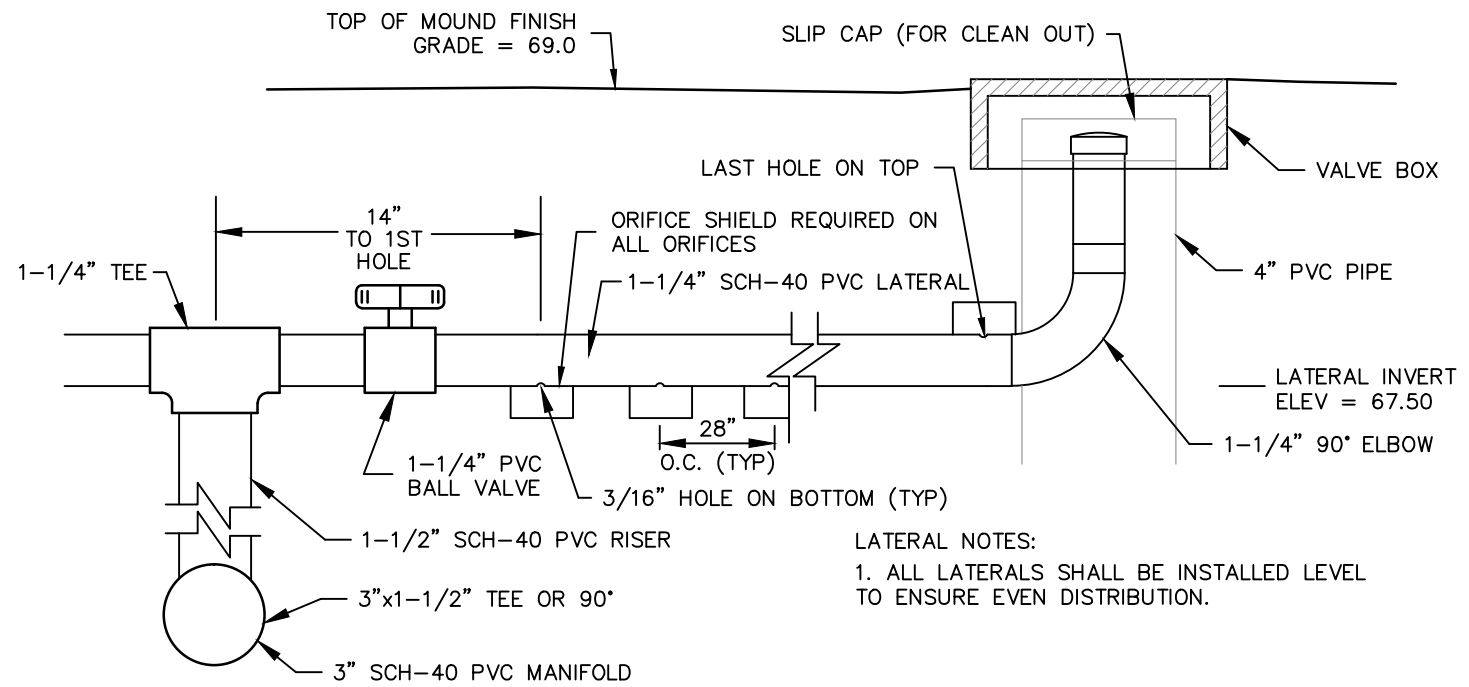
PROPOSED ON-SITE SEWER SYSTEM PLAN
MICHAEL STRATTE
E. WASHINGTON AVENUE - APN #54303.9023
VALLEYFORD, WASHINGTON

GENERAL NOTES

1. The septic tank shall be as shown on the plans, a double-compartment septic tank as manufactured by Wilbert Precast, Inc. with 24" diameter PVC risers and 24" fiberglass bolt down covers.
2. The dosing tank shall be a single compartment tank as shown on the plans, and shall be supplied with a 24" fiberglass riser and a 24" fiberglass bolt down cover.
3. Tanks shall be fitted with Kor-N-Seal boot connections at the inlet and outlet, or an approved equal.
4. The tanks shall be installed at the location shown on the plans and at the appropriate depth to receive flow from the home.
5. The sewer system mound shall be excavated in the area shown on the plans. The existing ground surface shall be prepared as directed in note #18 below. Pressure distribution sewer piping shall be installed on top of the sand bed as detailed.
6. ASTM C-33 sand shall be placed as detailed in this design. Prior to inspection and testing of the system, flush it to insure no debris remains within the piping. After testing of the system the mound shall be backfilled in accordance with the plan. The surface shall be carefully smoothed and seeded with an appropriate vegetative material to allow removal of some of the fluids by evapotranspiration.
7. The dosing siphon shall be that called for on the plan or shall be an approved equivalent. The contractor shall construct a complete and workable system, including any items not necessarily shown on the plans to provide for satisfactory operation. A dose counter shall be installed and activated by a float switch.
8. Prior to backfilling the mound and piping trenches, the system must be inspected and tested to assure uniform distribution throughout the drainfield and to determine if obstructions exist within the laterals that could effect proper operation of the system. Testing shall be performed in the presence of the design engineer. Testing of the system will involve the measuring of the residual squirt heights from the laterals. To test the system, the dosing tank shall be filled with fresh water, until the siphon is activated. The residual head will then be measured and regulated for uniformity throughout the system.
9. All construction materials and methods shall be in conformance with the latest edition of STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, by the Washington State DOT and APWA, Washington State Chapter.
10. All electrical work shall conform to the latest applicable Washington State Electrical Code.
11. The transport piping shall have a minimum burial depth of two (2) feet.
12. Provide cleanouts at approximate locations shown on the plans.
13. Install an OSI effluent filter on the outlet tee of the septic tank according to manufacturer's specifications. The effluent filter shall be installed such that it will be convenient to inspect and clean.
14. The engineer shall be notified of any changes made by the contractor/owner that require design modifications. The contractor shall not continue construction without an updated drawing showing all design revisions.
15. The contractor shall not proceed with construction without having obtained a permit from the Spokane Regional Health District.
16. The mound system shall be installed in the vicinity of the test holes as shown on the site plan.
17. All references to OSI refer to Orenco Systems Inc. located in Sutherlin, Oregon. Their phone number is (503) 459-4449. Equipment shall be as specified with no equal.
18. Prior to placing the ASTM C-33 Certified Sand, the top soil within the area proposed for the installation of the mound system shall be plowed with a chisel tooth plow as detailed within the attached Mound Construction Requirements (the engineer shall review the plowed area prior to placing any sand). The use of backhoe bucket ripper teeth is not allowed. ASTM C-33 sand shall be placed upon the freshly plowed surface with bucket equipment and spread into place with the blade of a crawler tractor. No wheel tractors shall be allowed on or around the mound site.
19. All mound fill material shall be loosely placed with no compactive effort.
20. Vehicle and animal traffic shall not be allowed on or adjacent to the completed sewer system mound. The area located downslope of the proposed mound site shall be protected from vehicle traffic as noted within the attached Mound Construction Requirements and as detailed on this plan.



MONITORING PORT DETAIL
NOT TO SCALE

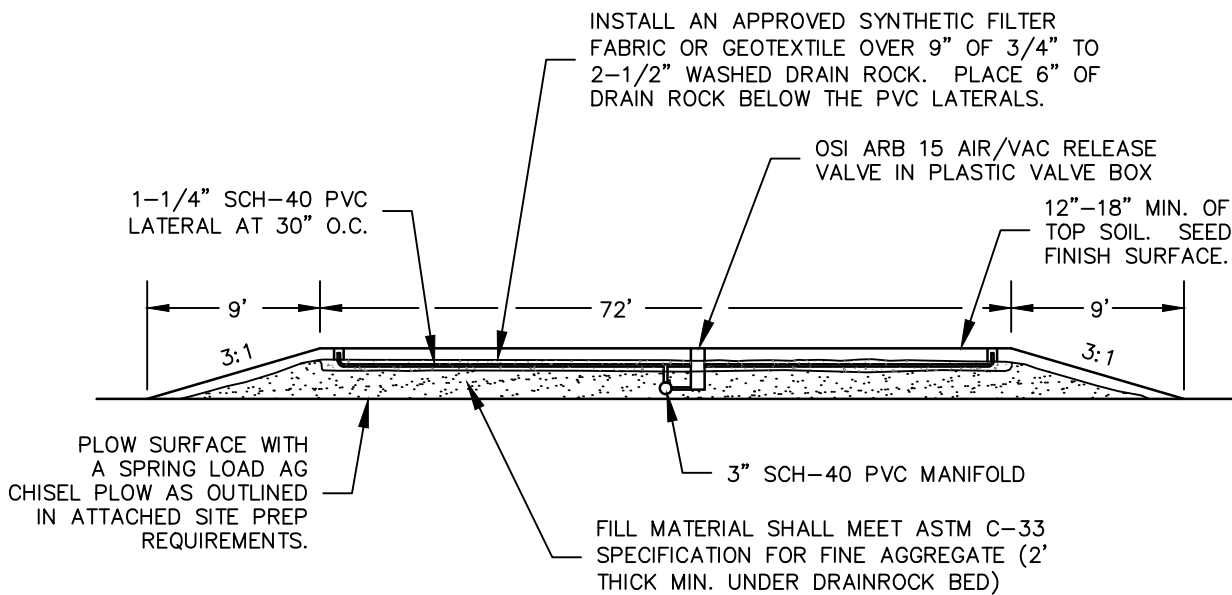


LATERAL DETAIL
NOT TO SCALE

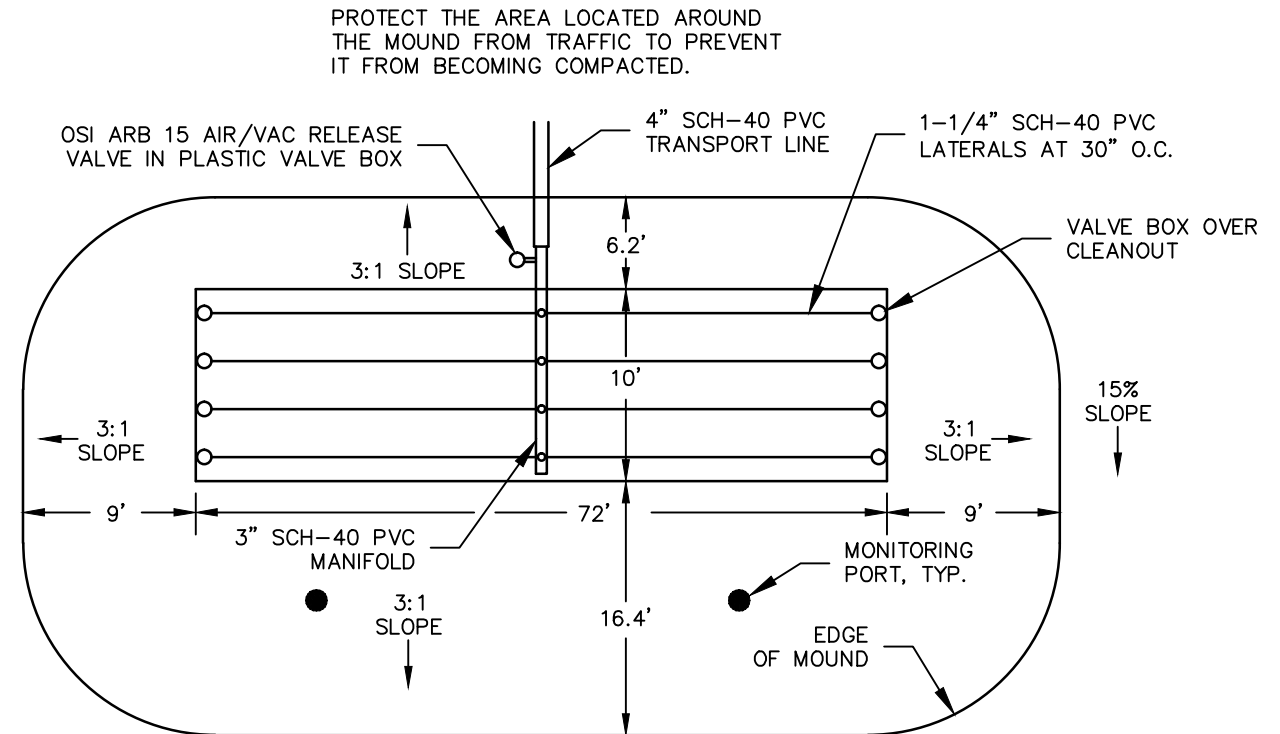
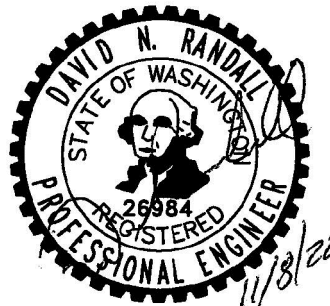
LATERAL NOTES:
1. ALL LATERALS SHALL BE INSTALLED LEVEL TO ENSURE EVEN DISTRIBUTION.

David N. Randall, Civil Engineer
521 W. Cameron Road, Spangle, Washington 99031
Cell: (509) 951-7411 Fax: (509) 357-1812

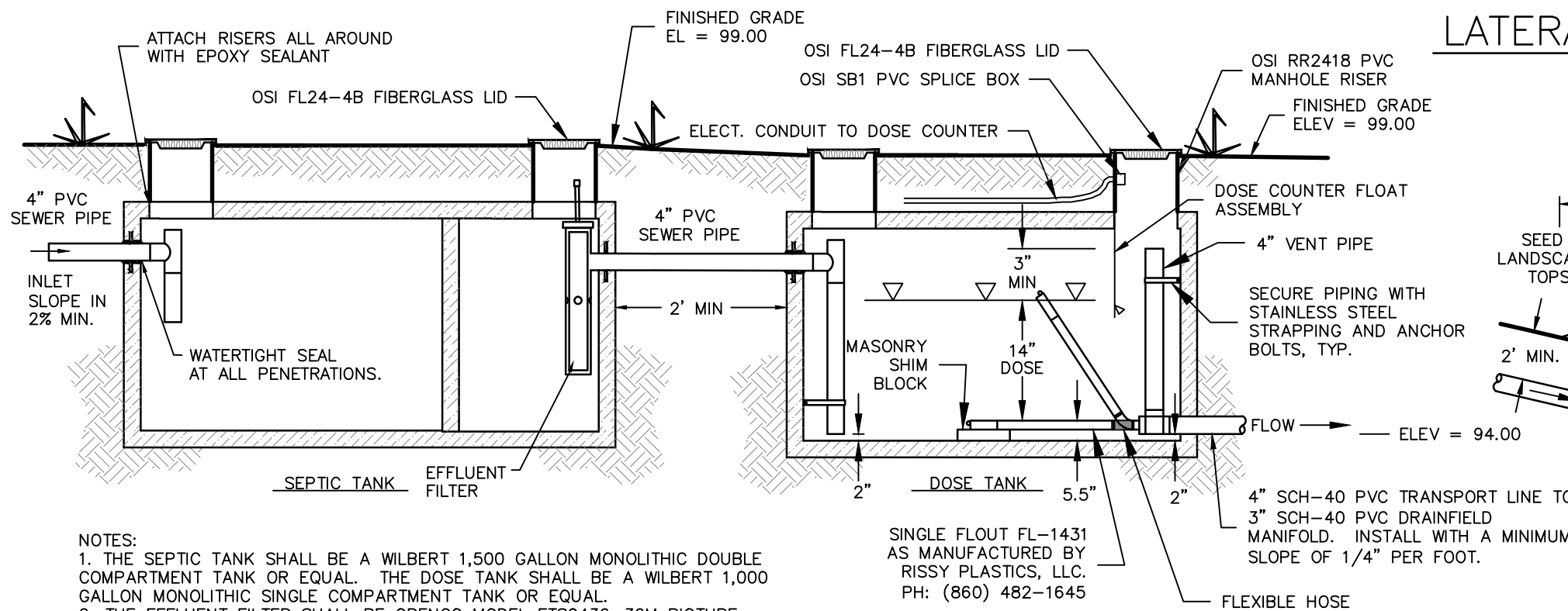
PROPOSED ON-SITE SEWER SYSTEM DETAILS
MICHAEL STRATTE
E. WASHINGTON AVENUE - APN #54303.9023
VALLEYFORD, WASHINGTON



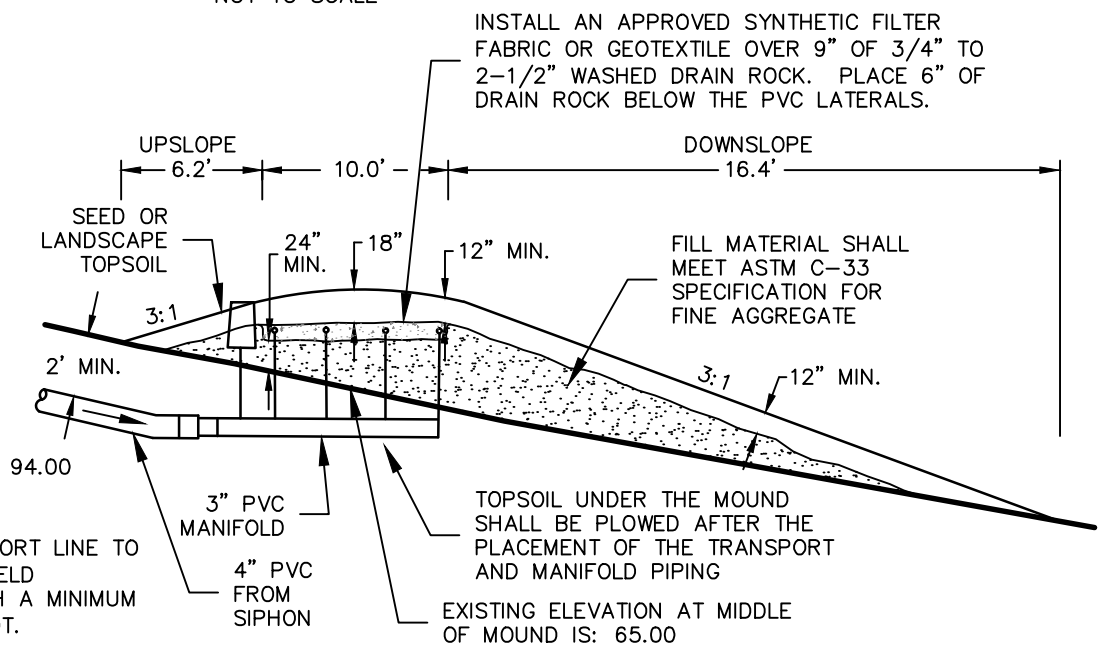
SANDFILTER SECTION
NOT TO SCALE



LATERAL LAYOUT DETAIL
NOT TO SCALE



TANK PROFILE AND MOUND SECTION
NOT TO SCALE



- NOTES:
1. THE SEPTIC TANK SHALL BE A WILBERT 1,500 GALLON MONOLITHIC DOUBLE COMPARTMENT TANK OR EQUAL. THE DOSE TANK SHALL BE A WILBERT 1,000 GALLON MONOLITHIC SINGLE COMPARTMENT TANK OR EQUAL.
 2. THE EFFLUENT FILTER SHALL BE ORENCO MODEL FTS0436-36M BIOTUBE.
 3. INSTALL AN OSI AMSSI SIPHON SITTER I DOSE COUNTER ON THE EXTERIOR OF THE HOME. CONNECT TO DOSE COUNTER FLOAT IN THE DOSE TANK.

SINGLE FLOUT FL-1431
AS MANUFACTURED BY
RISSY PLASTICS, LLC.
PH: (860) 482-1645