

34130 Whiffle Tree Trail, Routt County, Colorado, OWTS Notes

1. Septic tank to be approved heavy duty reinforced polymer, minimum 1250 gallon capacity, with 2 chambers and effluent filter (3 chambers & no filter recommended), with risers from each chamber to finished grade and with a sealed lid on each riser.
2. Recommend foam insulation over at least the top surface of the tank.
3. Distribution box to be reinforced polymer with individually adjustable outlet ports. Outlet ports to be set at equal elevations using a laser level.
4. All sewer and effluent lines to be run in 4 inch diameter D-3034 (aka SDR-35) PVC pipe with either glued or bell and spigot gasketed joint connections.
5. Bed and cover all sewer and effluent lines with select granular material.
6. Run all sewer and effluent lines with a minimum slope of 1%, with no dips or humps.
7. Cut drainage swales to divert surface water drainage around absorption field.
8. If any livestock are likely to be present on the site, fence them off of the absorption field.
9. Absorption trenches shall have a gravel bed and a 4 inch diameter dispersal line, installed per the typical trench section shown on the drawing.
10. Each absorption trench shall be center fed using a splitter Tee fitting and shall be fitted with a vertical inspection port consisting of 4 inch diameter PVC pipe rising to a cap above the finished grade at each end of each trench.
11. All sewer and effluent lines shall be provided with clean-outs spaced no more than 100 feet apart along the lines and shall be run at no less than 1% slope.
12. All system components to be installed in reasonable proximity to the locations shown on the drawing.

1250 gal
2 + Filter
or 3 no filter

Distro w/
Polymer

A circular professional engineer seal for the State of Colorado, with the number 17225 visible. Overlaid on the seal is a handwritten signature in blue ink.

34130 Whiffle Tree Trail, Routt County, Colorado, OWTS Calculations

Proposed Residence:

3 Bedrooms = 6 persons @ 75 Gallons/ day/ person = 450 Gal./day design flow

Minimum tank size = 1,250 Gallons, with 2 chambers and an approved effluent filter.

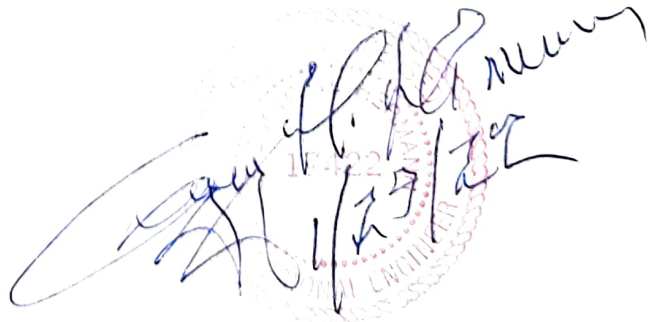
Absorption Field Sizing : Using conventional gravel bedded absorption trenches.

Long Term Acceptance Rate (LTAR) = 0.35 Gal./ sq. ft. / day (per Bear Valley Design, Ltd., letter, dated 1/29/22)

450 Gal./day / (0.35 Gal./day/ sq. ft) = 1286 sq. ft. (required absorption area)

System design using conventional gravel bedded trenches:

1286 sq. ft. / 3 sq. ft./lin. ft. of trench = 427 lin. ft. of trenches required (3 trenches 110 ft. long & 1 trench 100 ft. long, all center fed)

A handwritten signature in blue ink is written over a circular red stamp. The date "1/29/22" is written in blue ink below the signature. The stamp contains the text "Routt County, Colorado" and "1/29/22".