

Mound Design Notes - Aitkin county

Property Owner: Jonathan McCorkle

Date: 10/21/2021

Site Address: 45477 256th Ln Aitkin Mn 56431

PID: 11-1-245600

Comments: Type I Pressure Bed / 3 bedroom

- 1 This is a type I Pressure Bed for a proposed 3 bedroom Future House.
Soil separation is at +84" with a NE slope of 8" across pressure bed area.
- 2 There is an existing Neighbor's deep well to the SE that will meet setbacks.
Proposed deep well will be near power meter posts. + 100' from tank and pressure bed.
- *3 Existing septic tank to be pumped and removed, existing drainfield to be abandon.
- 4 Bench Mark (Elv. = 100') is the nail on Oak Tree NW of proposed pressure bed.
- 5 The Pressure bed area will be 16 ft. wide and 36.1 ft. long. Approx. Bottom of rock Elv 98'.
The NE corner is the lowest corner, use the excavated soil to build the berm out from NE corner.
Elevation of the bottom of the rock bed should be approx. 98', Can be deeper
The area size of the rock bed is 16' x 36.1' .
Cover rock bed with fabric and 12" to 18" of soil.
- 6 Installer to double check bench mark. Installer should confirm bench mark height Elv. with inspector.
Installer should record bench mark Elv. and bottom of rockbed height on installation inspection form.
It is important that the soils do not get compacted, and area stays protected.
- 7 The Jacobson 1650 Combo tank will be gravity flow from Camper sites. Install the pump for 6 demand doses
Install Clean-out/dump station at each site, install clean-out at junction of 2nd site 4" pipe.
Install the pump for 6 demand doses per day
Approx. 80 gallons per dose, 6.3 inches of tank level. Install alarm at 3 inches from pump on level.
Install pump with 34 GPM and 19 Ft. head.
Install all manholes, inspection pipes and clean-outs to grade or above, including existing tank.
- 8 Install a 2" supply pipe from tank to end manifold in rock bed, install so pipe drains back to tank.
- 9 Install 1.5" laterals with 9" of rock under them. (Install Lateral clean-outs at far end of laterals. Recommended)
Drill 7/32" perf holes spaced 3 ft. apart.
Install 4" inspection pipe to bottom of rock bed, secure in rock bed and raise to above final grade.
- 10 Because of the steep slope that the sewer pipe must follow, high velocity sewage into the septic tank.
Install an Effluent filter with electric alarm on septic tank out-let. If tank septage is churned up it will help.
- 11 Owner is responsible to maintain protection of bed area through construction of house and septic system.
Owner is to protect Alternate Site B for future septic site if needed.

Designed to Aitkin Co. and MPCA recommendations and requirements.


Designer Signature

Brummer Septic LLC.
Design Company

L-1347
License#