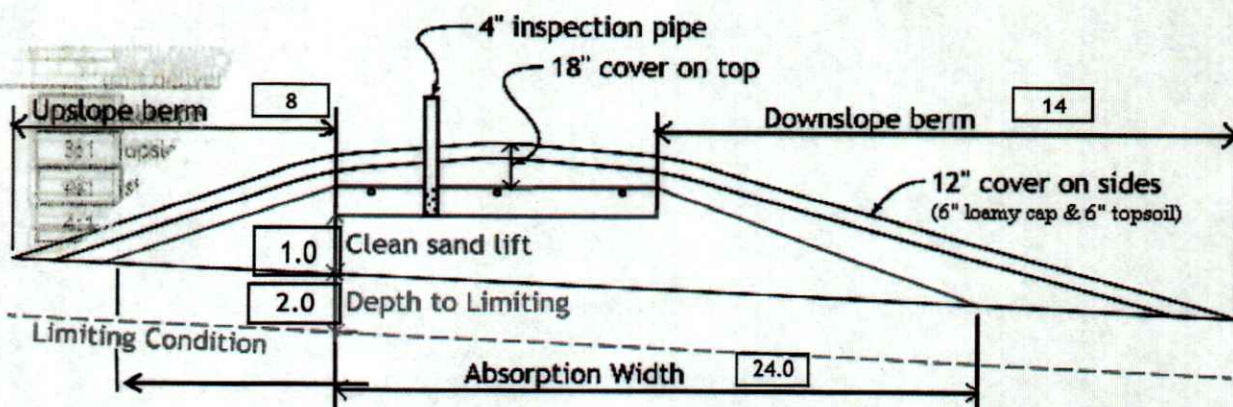


- 23) 0.78 gpd/ft² Absorption area Soil Loading Rate, which gives a mound ratio of 1.5 (minimum)
(this must match the soil boring log) desired mound ratio 1.5
- 24) 2 percent site slope (0-20% range) 2 (% downslope site slope, if different than upslope)
- 25) 24 inches, or 2.0 ft. to Redox or other limiting condition (need at least 12" to be a Type I)
Treatment zone contains 0 inches of 0% soil credit, and 0 inches of 50% soil credit. Giving a:
- 26) 12 inch, or 1.0 ft. Sand Lift Mound **CRITICAL FOR FUTURE CERTIFICATIONS!!!**
- 27) 15.0 ft. base absorption width (with sand beyond rockbed as follows):
24.0 greater of: absorption width OR sand slope
- 28) 0.0 ft. upslope and sideslope sand upslope 5.0
5.0 ft. Downslope sand down slope 9.0
- Individual slope ratios give BERM widths (topsoil beyond rockbed) of:
- 29) 3:1 upslope ratio 8 ft. upslope berm
- 30) 4:1 sideslope 13 ft. West sideslope berm East Sideslope Berm 3:1 or 10 feet wide
- 31) 4:1 downslope 14 ft. downslope berm
- 32) Overall Dimensions: 10.0 ft. wide by 25.0 ft. long Rock bed
32 ft. wide by 51 ft. long Mound footprint



Note:

For 0 to 1% slopes, *Absorption Width* is measured from the *Bed* equally in both directions.
For slopes >1%, *Absorption Width* is measured downhill from the upslope edge of the *Bed*.

- 33) Rock Bed: 10.0 ft. by 25.0 ft. by 9 inches under pipe, plus 20% gives 12 yd³ or *1.4= 17 ton
- 34) Mound Sand: (note: volume is based on 3:1/4:1 slope from top of rockbed, Exchange sand for loamy cap if desired)
9.4 up + 16.8 downslope + 7.2 ends + 10.2 under rock = 52 yd³ or *1.4= 73 ton
plus 20%
- 35) Loamy Cap:
28 ft. by 47 ft. 6" deep, plus 20% gives 30 yd³ or *1.4= 42 ton
- 36) Topsoil:
32 ft. by 51 ft. 6" deep, plus 20% gives 37 yd³ or *1.4= 52 ton

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

Signature: [Signature] Brummer Septic LLC. L-1347 10/20/2022
Designer Date
Company License#

Aitkin Co Operating Permit Required
Event Counter on pump controller or water meter on household water