

# Pressure Bed Design

contact Troy Johnson at  
www.SepticResource.com  
for questions or comments

Property Owner: Jonathan McCorkle Date: 10/21/2021

Site Address: 45477 256th Ln Aitkin Mn 56431 PID: 11-1-245600

Comments: \_\_\_\_\_

instructions:  = req'd input  = input or default  = calculated field \*\*\* = installer info

- 1)  bedroom Type  Residential System
- 2)  GPD design flow
- 3)  Garbage disposal or pumped to septic See note on Effluent filter  
Install Jacobson 1650 Compartment tank
- 4) \*\*\*  Gallon septic tank (minimum) Tank options:
- 5)  GPD/ft<sup>2</sup> Soil Loading Rate  ft<sup>2</sup> bed req'd, or  ft<sup>2</sup> LUG minimum  
(must match soil boring log)
- 6) \*\*\*  ft desired bed width, leads to a  ft bed length  
(25' maximum)
- 7) \*\*\*  ft lateral spacing  ft perforation spacing (maximum 3 for both)  
 manifold connection
- 8) \*\*\*  laterals  feet long  perfs / lateral  perfs total  
(1/2 perf means the first perf starts at the middle feed manifold)
- 9) \*\*\*  inch perfs at  feet residual head gives  gpm flow rate per perforation  
( If bed has > 1' of cover, increase residual head for cleanout req's)  
for this perf size & spacing, & pipe size on line 12, max perfs/lateral = , line #8 must be less --> OK
- 10)  doses per day ( 4 minimum)
- 11)  gallons per dose (treatment volume)
- 12) 1.25 inch diameter laterals (or smaller) will meet "5x pipe volume"  
\*\*\*  inch diameter laterals (or smaller) must be used to meet "4x pipe volume" requirement  
2.00 inch diameter laterals (or smaller) will meet "3x pipe volume"
- 13) \*\*\*  feet of  inch supply line leads to  gallons of drainback volume  
("top feed" to control the drainback)
- 14)  gallons TOTAL pump out volume (treatment + drainback)
- 15)  feet vertical lift from pump to dispersal area, leads to a
- 16) \*\*\*  GPM @  feet of head, Pump requirement  
( >50 gpm may require additional 3-6' head allowance for discharge assy)