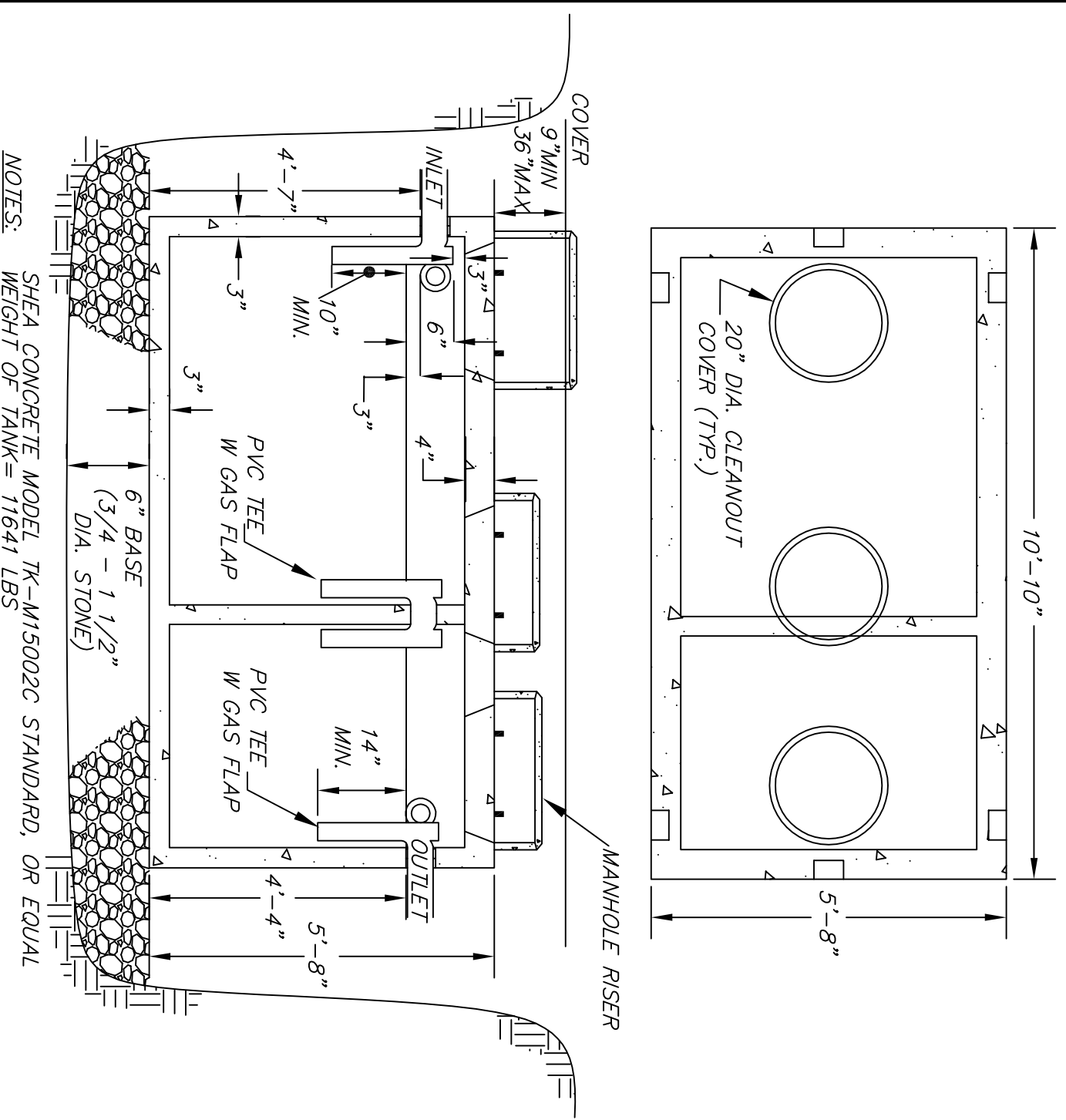
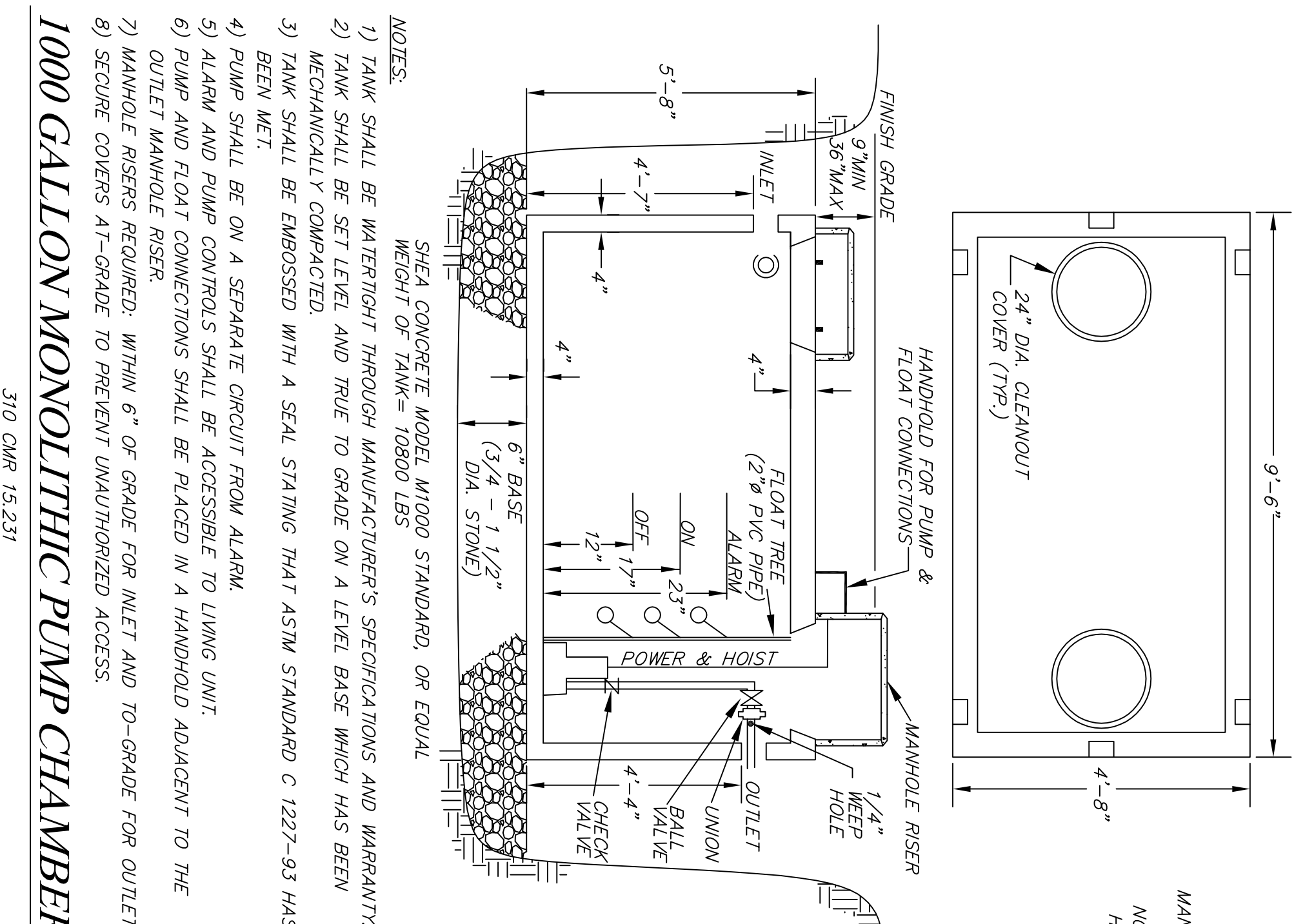


- 1) FIRST COMPARTMENT: 880 GALLONS
- 2) SECOND COMPARTMENT: 440 GALLONS
- 3) PROVIDED: 2 COMP 1000/500 GALLON MONOLITHIC SEPTIC TANK



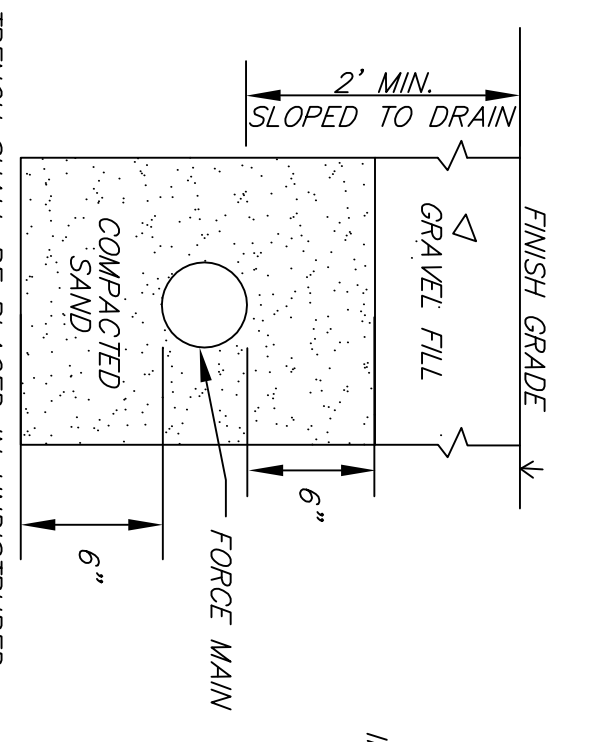
### 1500 GALLON MONOLITHIC SEPTIC TANK

310 CMR 15.223 - 15.228 (NOT TO SCALE)



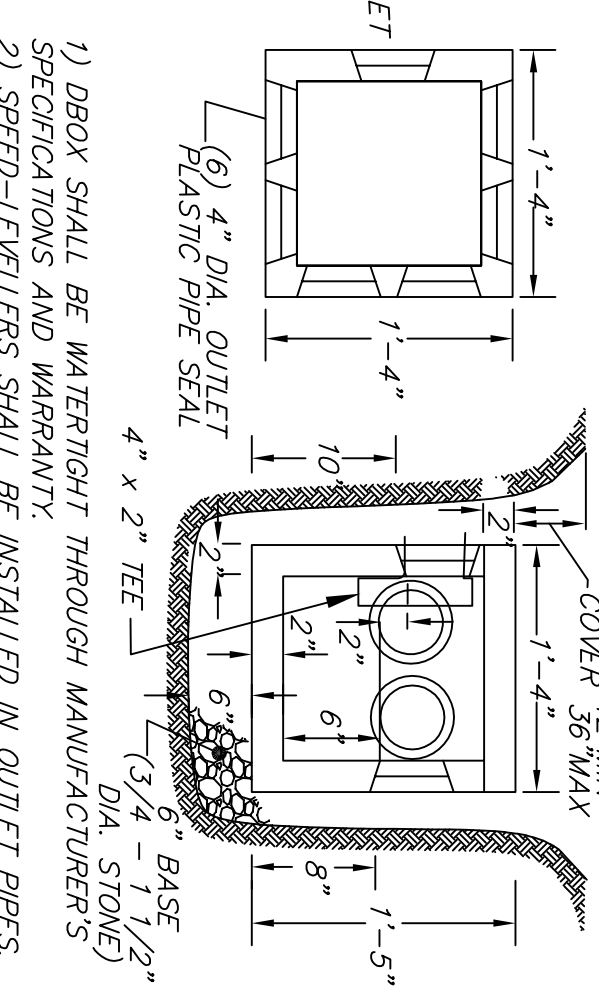
### 1000 GALLON MONOLITHIC PUMP CHAMBER

310 CMR 15.231 (NOT TO SCALE)



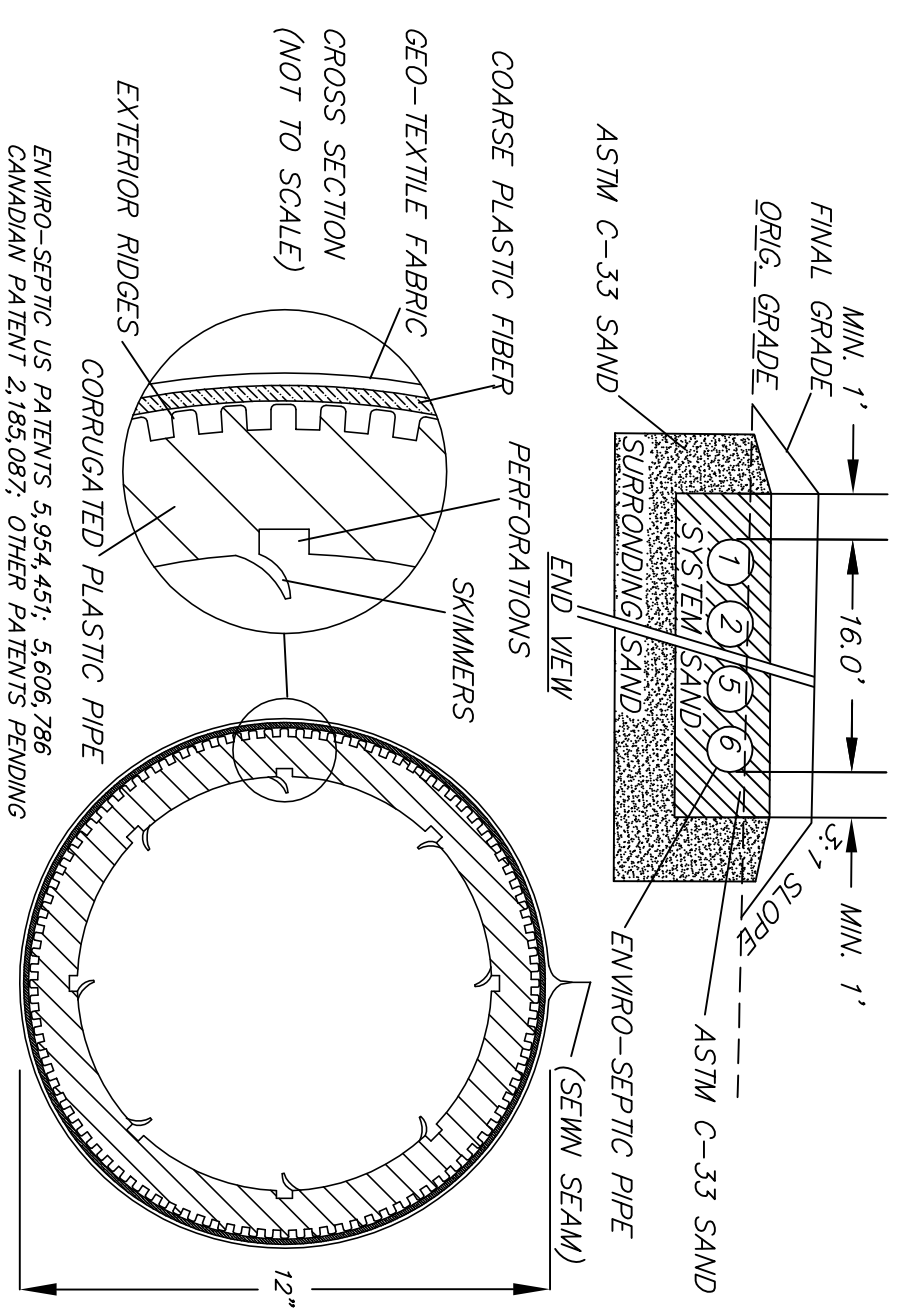
### FORCE MAIN TRENCH

310 CMR 15.221(6) (NOT TO SCALE)



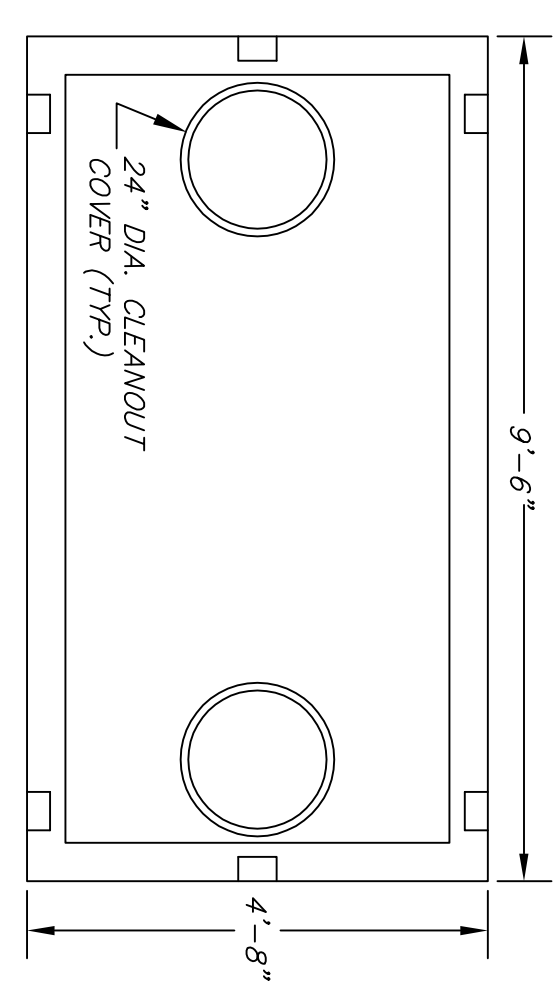
### DISTRIBUTION BOX (6-OUTLET)

310 CMR 15.232 (NOT TO SCALE)

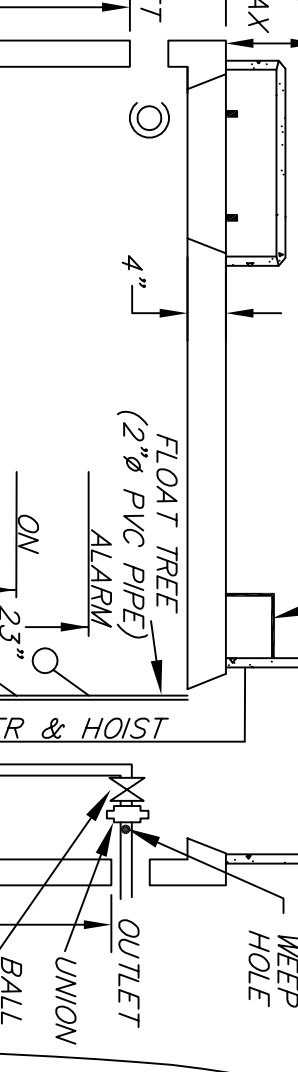


### PRESSBY ENVIRO-SEPTIC LEACH FIELD DETAIL

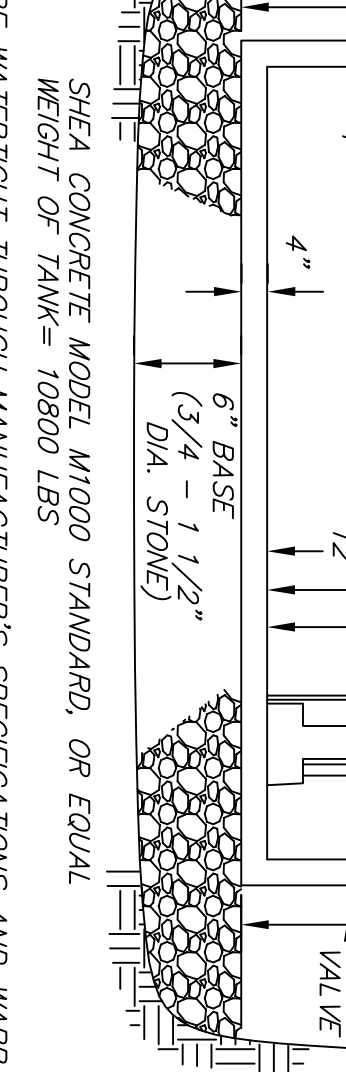
310 CMR 15.231(6) (NOT TO SCALE)



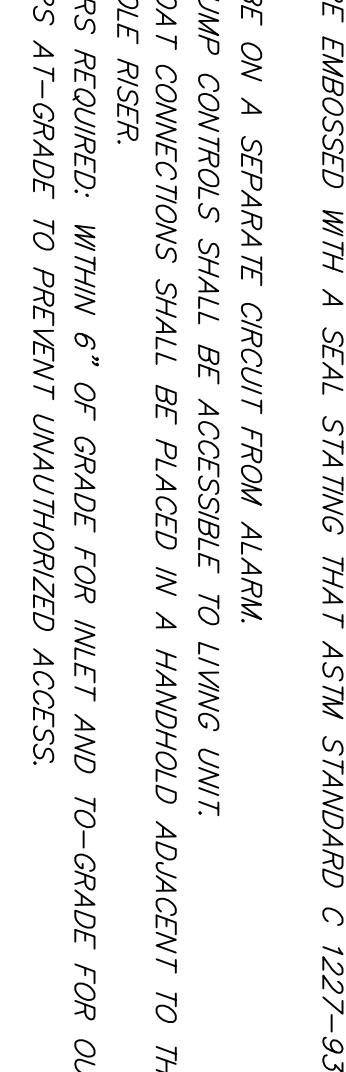
### PUMP ACCESSORIES



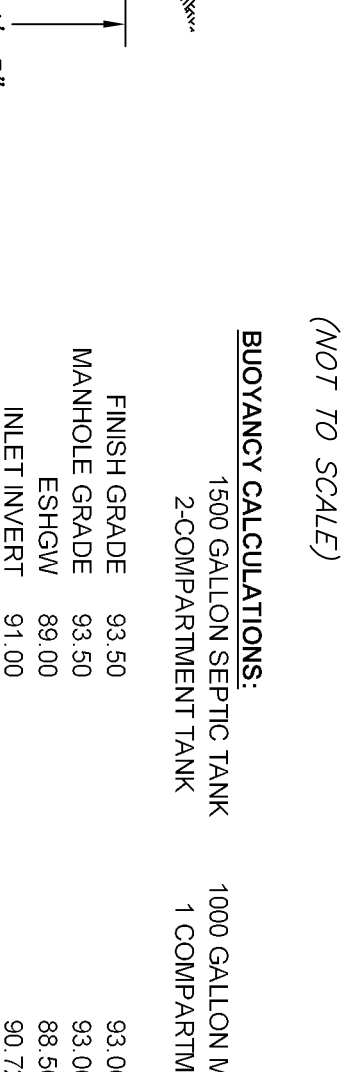
### HANDHOLD FOR PUMP & FLOAT CONNECTIONS



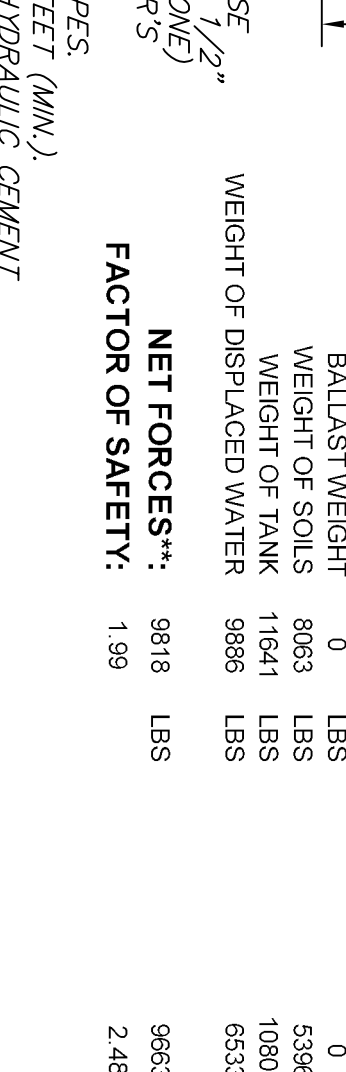
### MANHOLE RISER



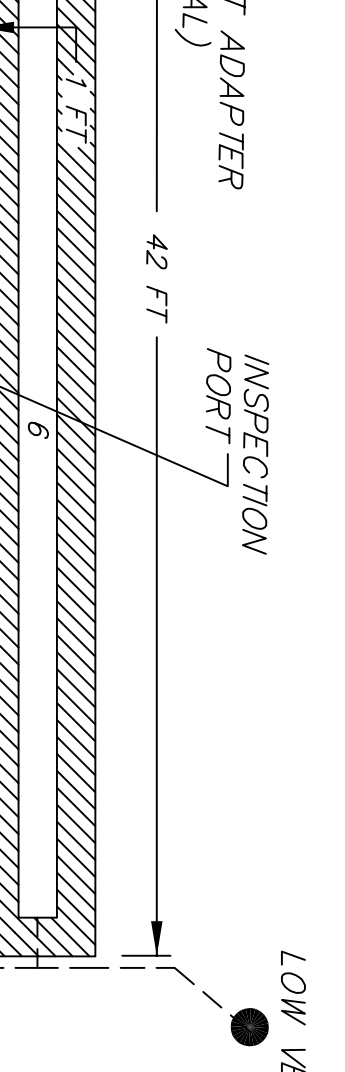
### FORCE MAIN



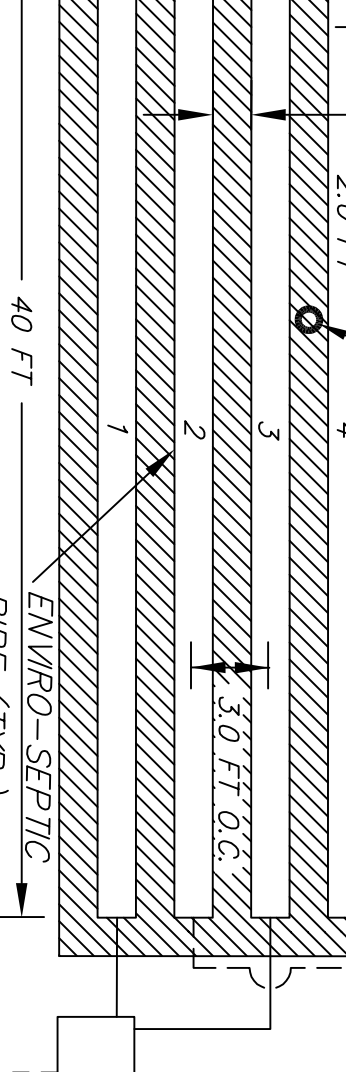
### DISTRIBUTION BOX (6-OUTLET)



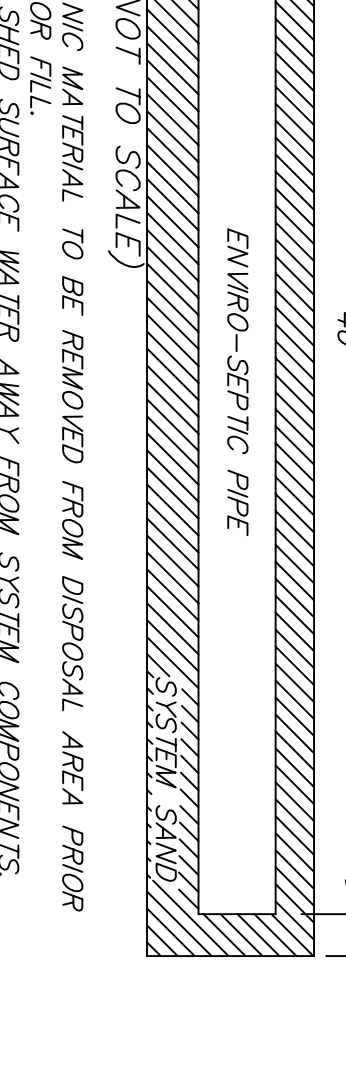
### FORCE MAIN TRENCH



### FORCE MAIN TRENCH



### FORCE MAIN TRENCH



### FORCE MAIN TRENCH

**PUMP SPECIFICATIONS:**

MANUFACTURER: LIBERTY PUMPS  
MODEL #: LE4M  
NO. REQUIRED: ONE (1)  
HORSEPOWER: 0.4  
PHASE: 1  
FULL AMPS: 12  
DISCHARGE: 2"

**DALY FLOW:**  
1. MIN. 4  
2. MAX. 4  
3. SOL. TYPE  
4. VOL. UMBREGE

**FORCE MAIN:**  
(INSIDE DIMENSIONS)  
LENGTH: 83 FT  
EFF. DEPTH: 4.08 FT  
SUMP: 80.74  
ON: 87.64  
ALARM: 88.96

**STATIC HEAD:**  
87.64 PUMP OFF  
98.02 DBOX

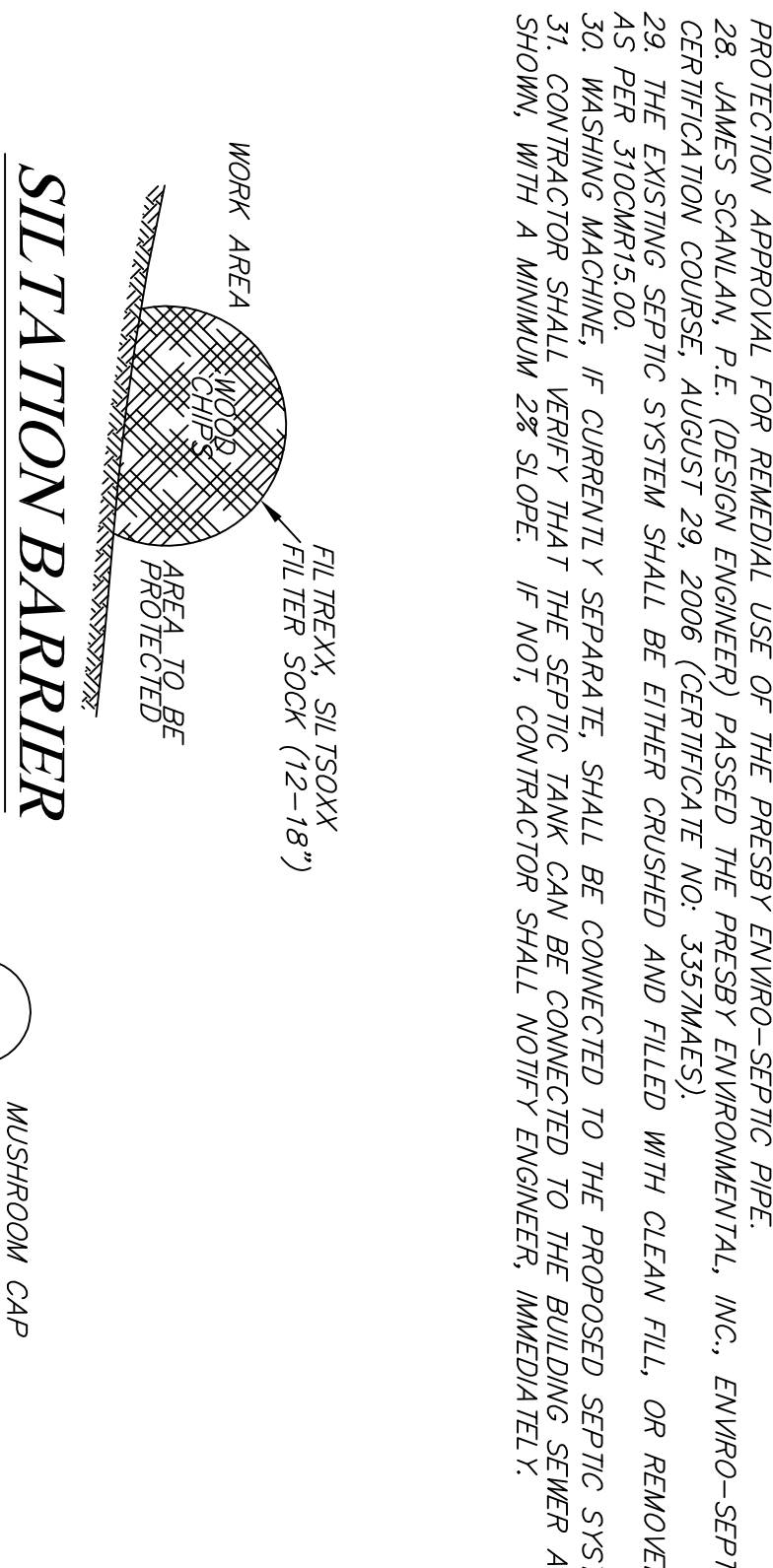
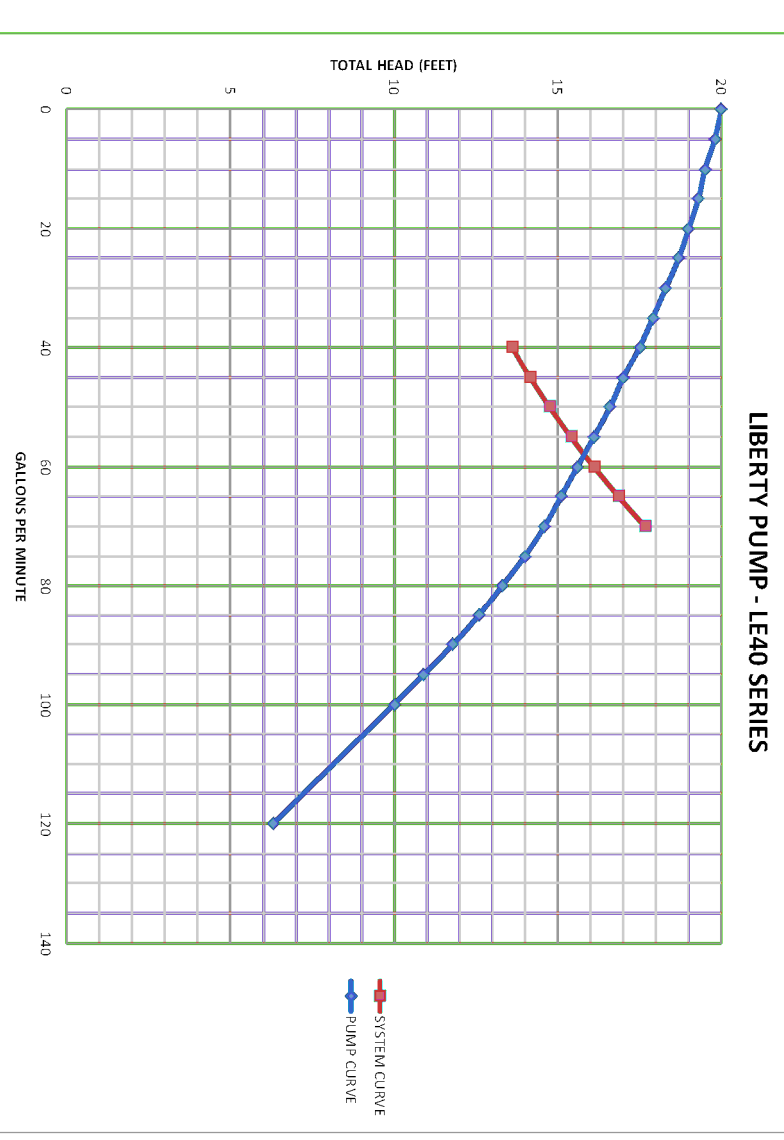
**EQUIVALENT LENGTH:**  
PUMP CHAMBER: 2.00 SOH-40 PVC PIPE  
1.00 PUMP CHAMBER  
1.00 CHECK VALVE  
1.00 CHECK VALVE  
TOTAL: 20.2

**PIPE RUN:**  
2.00 DEGREE BENDS  
0.45 DEGREE BENDS  
0 CHECK VALVE  
0 LENGTH OF PIPE  
ADDITIONAL LENGTH: 64  
TOTAL: 64

**SYSTEM CURVE:**

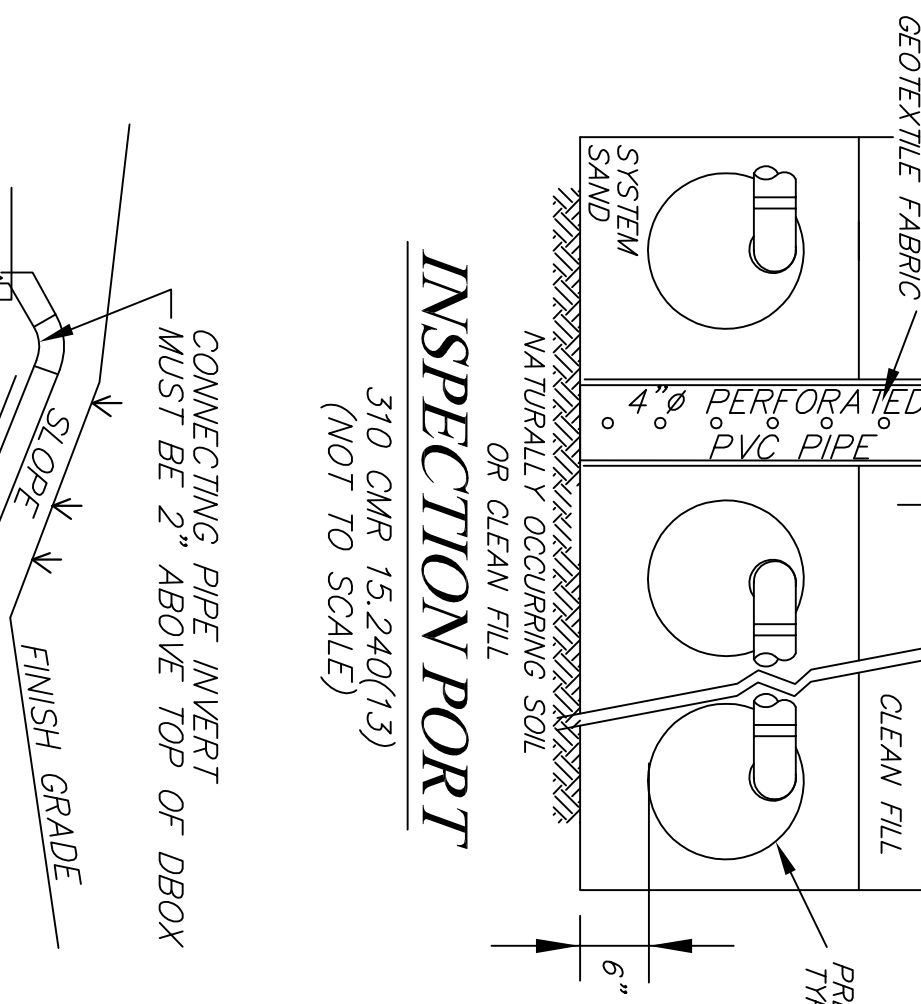
Q	V	H	H <sub>T</sub>	TOT
40	3.01	2.02	11.38	13.61
50	4.51	3.08	11.38	14.75
60	4.96	4.73	11.38	15.40
80	5.41	5.55	11.38	16.10
65	5.86	6.44	11.38	16.85
70	6.31	7.39	11.38	17.66

**OPERATING POINT:**  
FLOW: 18.8 GPM  
HEAD: 15.8 FT  
TIME ON: 2.0 MINUTES



### SILTATION BARRIER

310 CMR 15.240(13) (NOT TO SCALE)



### INSPECTION PORT

310 CMR 15.240(13) (NOT TO SCALE)



### REMOTE VENTING

310 CMR 15.241 (NOT TO SCALE)

- NOTES:**
1. THIS PLAN IS INTENDED ONLY FOR THE CONSTRUCTION OF A SEPTIC SYSTEM TO SERVE THE SITE. NO OTHER USE OF THIS PLAN IS AUTHORIZED. PROPERTY LINES SHOWN HERE-ON ARE APPROXIMATE AND INTENDED ONLY TO SHOW THAT MINIMUM SETBACKS HAVE BEEN MET. NO BOUNDARY SURVEY WAS CONDUCTED IN PREPARATION OF THIS PLAN.
  2. CONTRACTOR SHALL NOTIFY DISAGE AT 1-888-DIG-SAFE (888-231-7233) AT LEAST 72 HOURS BEFORE COMMENCING WORK.
  3. CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL CONSTRUCTION REQUIREMENTS ASSOCIATED WITH THE JOB.
  4. ANY AND ALL REVISIONS TO THE APPROVED PLAN SHALL BE APPROVED BY THE DESIGN ENGINEER AND THE APPROPRIATE TOWN REPRESENTATIVE.
  5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT WITH RESPECT TO SAFETY METHODS. CONSTRUCTION METHODS AND SUPERVISION OF WORKERS FOR THE PROJECT AND SHALL BE A LICENSED PROFESSIONAL ENGINEER IN THE TOWN IN WHICH THE SEPTIC SYSTEM IS BEING INSTALLED.
  7. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF BENCHMARKS PRIOR TO CONSTRUCTION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES IN THE BENCHMARK ELEVATIONS.
  8. CONTRACTOR SHALL CONFORM THAT THE DESIGN PLAN DETAILS ARE CONSISTENT WITH THE CURRENT MANUFACTURER'S SPECIFICATIONS.
  9. APPROVAL OF THE SEPTIC DESIGN, ISSUANCE OF A DISPOSAL SYSTEM CONSTRUCTION PERMIT AND SEPTIC SYSTEM INSTALLATION SHALL NOT BE CONSIDERED AS A GUARANTEE THAT THE SEPTIC SYSTEM WILL FUNCTION SATISFACTORILY.
  10. BACKWASH FROM A WATER SOFTENER SHALL NOT BE DISCHARGED INTO A SEPTIC SYSTEM.
  11. ALL WORK SHALL COMPLY WITH 310CMR15.000 AND LOCAL BOARD OF HEALTH REGULATION, UNLESS VARIANCES/VAIERS HAVE BEEN APPROVED.
  12. ALL WORK OUTSIDE OF THE BUILDING THAT IS LESS THAN 10 FEET FROM THE OUTSIDE FACE OF THE FOUNDATION SHALL CONFORM TO ADEQUATELY THE STATE PLUMBING CODE.
  13. ALL PIPING SHALL BE INSTALLED TO ADEQUATELY THE STATE PLUMBING CODE.
  14. THERE ARE NO KNOWN WELLS WITHIN 150 FEET OF THE SOIL ABSORPTION SYSTEM OR WITHIN 50 FEET OF ANY SEPTIC COMPONENTS.
  15. THERE ARE FRESHWATER WETLANDS WITHIN 100 FEET OF THE SEPTIC SYSTEM. THIS PLAN SHALL ACCOMPANY A NOTICE OF INTENT FILED WITH THE LOCAL CONSERVATION COMMISSION AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
  16. SITE COMPLETION SHALL BE COMPLETED BY 10/31/2017.
  17. FILL MATERIAL FOR SYSTEMS CONSTRUCTED IN FILL SHALL CONSIST OF ASTM C-33 SAND AND SHALL CONFORM TO 310CMR15.259(3).
  19. CONTRACTOR SHALL REMOVE A & B SOIL HORIZON(S) AND OTHER DELETERIOUS MATERIAL WITHIN 5 FT OF SOIL ABSORPTION SYSTEM AND REPLACE WITH ASTM C-33 SAND UP TO TOP OF LINER ELEVATION.
  20. COMPONENTS SHALL NOT BE BACKFILLED WITHOUT INSPECTION BY THE BOARD OF HEALTH AND A VERIFICATION REPORT SHALL BE SUBMITTED TO THE BOARD OF HEALTH.
  21. OVERLAPPING OF MATERIALS AND STORAGE OF EQUIPMENT OVER LEACHING AREA IS PROHIBITED.
  22. ALL SEPTIC COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED.
  23. BALL VALVE IN PUMP CHAMBER SHALL BE ADJUSTED TO REGULATE FLOW INTO DBOX TO MEET THE FLOW RATE THROUGH THE SPEED LEVELERS INTO THE STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS APPROVED FOR REMEDIAL USE REVISED FEBRUARY 3, 2016 AND THE PRESBY REMEDIAL USE APPROVAL REVISED SEPTEMBER 26, 2014. A COPY OF EACH SHALL BE KEPT ON-SITE.
  25. SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS, FOR PRODUCT INFORMATION, OR THE NEAREST DEALER CONTRACT PRESBY ENVIRONMENTAL, INC. 143 AIRPORT ROAD, WHITEFIELD, NH 03598 PHONE: 1-800-473-5298 WEB: WWW.PRESBYENVIRONMENTAL.COM
  26. INSTALLER MUST HAVE BEEN TRAINED AND BE CERTIFIED BY PRESBY ENVIRONMENTAL, INC., AS AN ENVIRO-SEPTIC INSTALLER.
  27. APPROVAL OF THE PRESBY ENVIRO-SEPTIC PIPE REQUIRES A NOTICE DISCLOSURE THE EXISTENCE OF THE ALTERNATIVE SEPTIC SYSTEM SUBJECT TO THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION APPROVAL FOR REMEDIAL USE OF THE PRESBY ENVIRO-SEPTIC PIPE.
  28. JAMES SCANLAW, P.E. (DESIGN ENGINEER) PASSED THE PRESBY ENVIRONMENTAL, INC., ENVIRO-SEPTIC CERTIFICATION COURSE AUGUST 29, 2006 (CERTIFICATE NO. 3357MAKES).
  29. THE EXISTING SEPTIC SYSTEM SHALL BE EITHER CRUSHED AND FILLED WITH CLEAN FILL OR REMOVED, AS PER 310CMR15.00.
  30. WASHING MACHINE, IF CURRENTLY SEPARATE, SHALL BE CONNECTED TO THE PROPOSED SEPTIC SYSTEM.
  31. CONTRACTOR SHALL VERIFY THAT THE SEPTIC TANK CAN BE CONNECTED TO THE BUILDING SEWER AS SHOWN, WITH A MINIMUM 2% SLOPE. IF NOT, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

**SUBSURFACE SEWAGE DISPOSAL SYSTEM UPGRADE**

17 TOWNNE ROAD  
BOXFORD, MA 01921

REGISTRY INFORMATION:  
DEED:  
BOOK NO.: 9177  
PAGE NO.: 287

ASSESSORS INFORMATION:  
MAP: 32  
BLOCK: 3  
LOT: 1

PREPARED FOR:  
PETER CLARK  
17 TOWNNE ROAD  
BOXFORD, MA 01921

SCANLAW ENGINEERING LLC  
FO BOX 906-GERMERTOWN, MA 01833  
PHONE: (978) 372-3440  
FAX: (978) 891-3888  
EMAIL: info@scanlawengineering.com  
WEB: www.scanlawengineering.com

# BY DATE REVISIONS TO PLANS

DATE: OCTOBER 18, 2017  
DESIGN BY: JBS  
DRAWN BY: JBS

DETAILS & NOTES

SHEET 2 OF 2 SCALE: 1" = 20'  
PROJECT # 0810