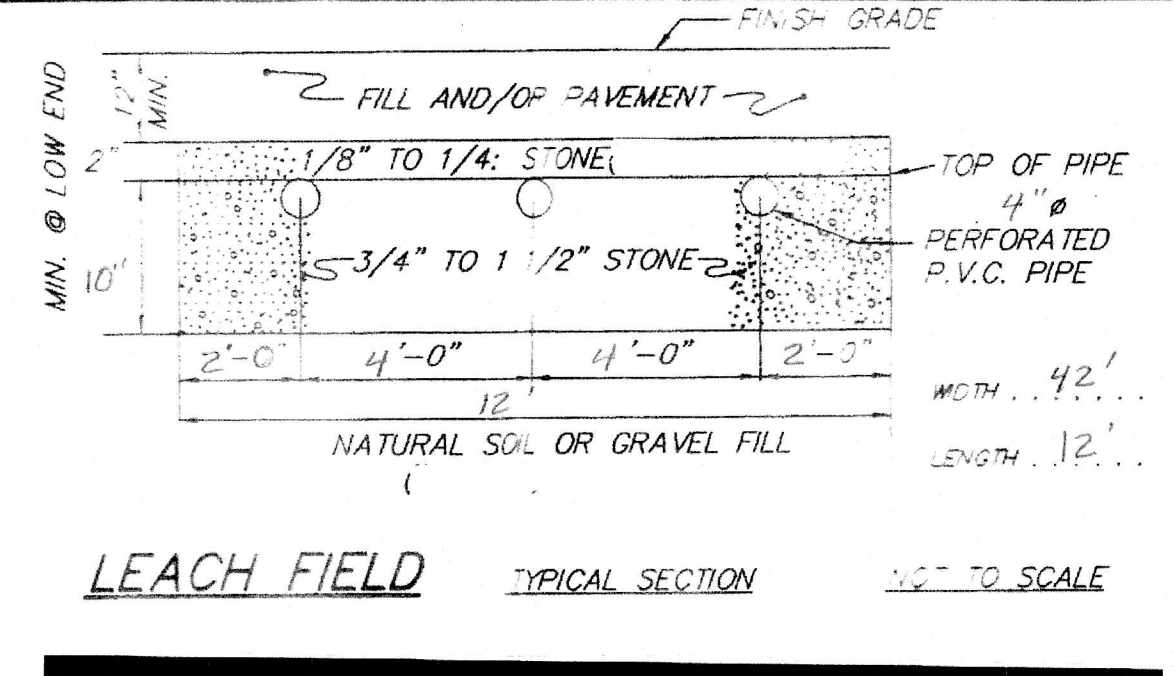
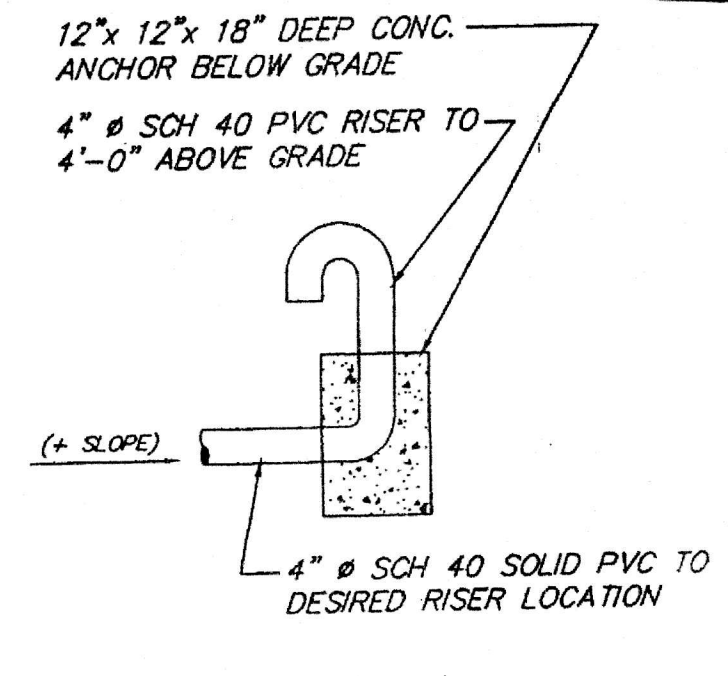


- LEGEND:**
- | EXISTING | PROPOSED | DESCRIPTION |
|-----------|----------|--------------------------------|
| -72- | 72.3 | SURFACE CONTOUR |
| 72.3 | 71.7 | SPOT ELEVATION |
| ⊕ | | DEEP SOIL OBSERVATION TEST |
| ⊗ | | PERCOLATION TEST |
| ○ 10" OAK | | PROMINENT TREE, DIA. & SPECIES |
| B.M. #3 ▲ | | ELEVATION BENCH MARK & NO. |
| WS | | WATER SERVICE |



TUF-TITE 7-Hole Distribution Box 7HD2

Injection molded. Exceptionally strong. Dimpled lid is ribbed for exceptional strength. Patented snap-in pipe seals simplify installation.

Notes: 1. Concrete: 4,000 PSI MINIMUM AFTER 28 DAYS. 2. CONSTRUCTION OF SEPTIC TANK CONFORMS WITH 310 CMR, SECTION 15.00 DEP TITLE 5 RECS. 3. ALL REINFORCEMENT PER ASTM C1227. 4. Baffle wall optional for two compartment tanks. 5. TEES AND GAS Baffle SOLD SEPARATELY. 6. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN. 7. IF COVER EXCEEDS 4 FEET, HEAVY DUTY TANK REQUIRED. ALSO AVAILABLE IN ASHITO HS-20 LOADING.

INSTALLATION IS JUST THIS SIMPLE

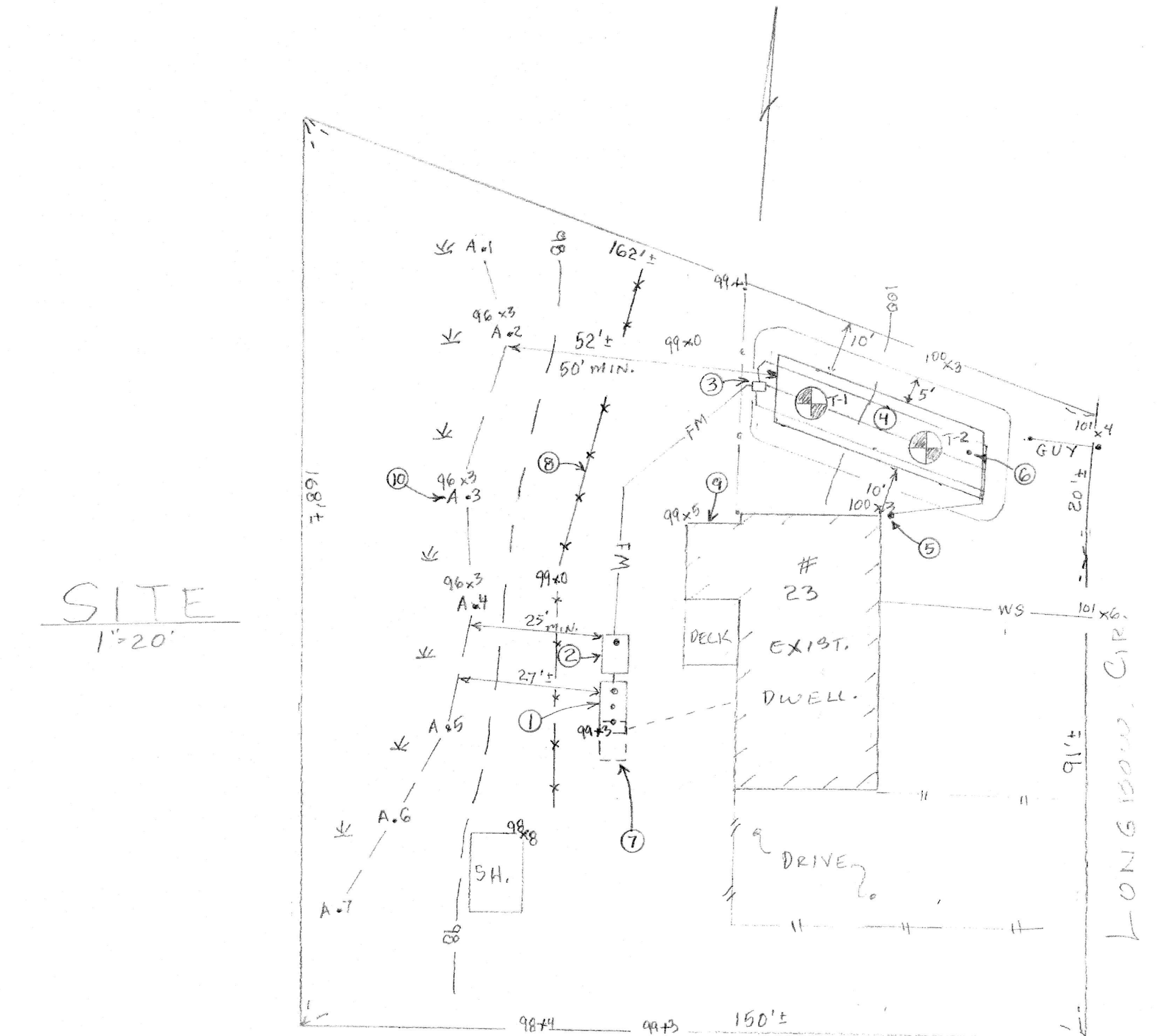
- Position the Distribution Box on level virgin soil. Do not place box on a concrete slab.
- Install the inlet pipe and outlet pipes. Be sure the bottoms of all pipes rest on virgin soil.
- Level the Distribution Box and all pipes as needed.
- Backfill the pipes to within two feet of the Distribution Box. Check the level of the box, then backfill up to the top lid ridge.
- Install and adjust Tuf-Tite Speed Levelers.
- Place lid on the Distribution Box and finish backfilling.

Choice of Fittings: S-35 Pipe Seal, S-35 Seal, S-40 Seal, P-10 Plug.

SHEA 1500 GALLON SEPTIC TANK MONOLITHIC 3" WALL

Notes: 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS. 2. CONSTRUCTION OF SEPTIC TANK CONFORMS WITH 310 CMR, SECTION 15.00 DEP TITLE 5 RECS. 3. ALL REINFORCEMENT PER ASTM C1227. 4. Baffle wall optional for two compartment tanks. 5. TEES AND GAS Baffle SOLD SEPARATELY. 6. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN. 7. IF COVER EXCEEDS 4 FEET, HEAVY DUTY TANK REQUIRED. ALSO AVAILABLE IN ASHITO HS-20 LOADING.

- NOTES:**
- UNLESS OTHERWISE SPECIFIED, SYSTEM CONSTRUCTION SHALL CONFORM TO TITLE 5 OF THE STATE ENVIRONMENTAL CODE OR LOCAL BOARD OF HEALTH REGULATIONS, WHICHEVER IS MORE STRINGENT.
 - ALL WORK ON LINES, GRADES AND DETAILS SHALL BE DONE BY A LICENSED DISPOSAL WORKS INSTALLER.
 - ANY INTENDED REVISION OF PROPOSED ELEVATIONS AND/OR HORIZONTAL LOCATIONS AS SHOWN SHALL BE APPROVED BY THE ENGINEER AND HEALTH AGENT PRIOR TO IMPLEMENTATION.
 - PROPERTY LINES SHOWN ARE APPROXIMATE. REFERENCE PLAN IS 19113-2, LOT 235.
 - THE CONTRACTOR SHALL NOTIFY THE PROPER INSPECTORS AND ALLOW SUCH TIME AS REQUIRED FOR INSPECTIONS.
 - SAFETY MEASURES, DAY-TO-DAY CONTROL OF WORK AND CONSTRUCTION METHODS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE ISSUANCE OF A PERMIT TO CONSTRUCT OR A CERTIFICATE OF COMPLIANCE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE DISPOSAL SYSTEM WILL FUNCTION SATISFACTORILY.
 - THE CONTRACTOR SHALL NOTIFY "DIG-SAFE" AT 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - ALL PIPE JOINTS SHALL BE MADE WATERTIGHT PER 222(3) & (4).
 - THE BUILDING SEWER SHALL BE LAID ON A COMPACTED FIRM BASE PER 222(5). THE BUILDING SEWER SHALL BE LAID ON A CONTINUOUS GRADE IN A STRAIGHT LINE PER 222(7).
 - A 24" CHILDPROOF RISER/MANHOLE WITHIN 6" OF FINAL GRADE SHALL BE PLACED OVER THE OUTLET END OF THE SEPTIC TANK.
 - IF PLACED IN FILL PROPER COMPACTION IS REQUIRED UNDER COMPONENTS PER 221(2). A SIX INCH CRUSHED STONE BASE IS TO BE PLACED UNDER COMPONENTS.
 - SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL BE WATERTIGHT PER 221(1).
 - SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX SHALL HAVE A MINIMUM 9" AND MAXIMUM 36" OF COVER PER 221(7) AND 228(1).
 - ALL OUTLETS FROM THE DISTRIBUTION BOX ARE TO BE CONSTRUCTED AT THE SAME ELEVATION PER 232(3)(B), AND LAID LEVEL FOR THE FIRST TWO FEET PER 232(3)(B).
 - FILL MATERIAL SHALL BE COMPRISED OF CLEAN, GRANULAR SAND, FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES PER 255(3). MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOILS SHALL NOT BE USED.
 - PROVIDE MINIMUM 0.027/FT GRADE SLOPE OVER LEACH SYSTEM PER 240(10).
 - THERE SHALL BE A 3" SPACE BETWEEN TOPS OF TEES AND INSIDE OF TANK PER 227(4). TEES MUST EXTEND 6" ABOVE FLOWLINE PER 227(1). INLET TEE MUST EXTEND 10" BELOW FLOWLINE PER 227(6). OUTLET TEE MUST EXTEND 34" BELOW FLOWLINE PER 227(6). INSTALL ZABE OUTLET FILTER OR EQUIVALENT ON OUTLET TEE. ANNUAL MAINTENANCE OF THE FILTER IS REQUIRED. TEES MUST EXTEND TO CENTER OF ACCESS PORTS.
 - PROVIDE 6 INCH CRUSHED STONE BASE BENEATH SEPTIC TANK, PUMP CHAMBER AND DISTRIBUTION BOX.
 - MAGNETIC MARKING TAPE IS TO BE PROVIDED OVER SYSTEM COMPONENTS.
 - THIS PLAN IS DESIGNED IN CONFORMANCE WITH 310CMR 15.00 (TITLE 5).
 - SYSTEM DOES NOT APPEAR TO LIE WITHIN A NITROGEN SENSITIVE AREA AS DESIGNATED BY 310CMR 15.215.
 - THERE ARE NO SURFACE WATER SUPPLIES WITHIN 400'. NO PUBLIC WELLS WITHIN 400', AND NO PRIVATE DOMESTIC WELLS WITHIN 125' OF SEPTIC SYSTEM BASED ON VISUAL INSPECTION.
 - THE EXISTING DWELLING IS ASSESSED AS THREE BEDROOMS. THE DESIGN IS FOR THREE BEDROOMS.
 - PUMP ALARM SHALL BE ON A SEPARATE CIRCUIT.



- Proposed 1,500 gal. 2-comp. septic tank
- Proposed 1,000 gal. chamber
- Proposed 6-outlet distribution box w/tee
- Proposed leach field, 12' wide by 42' long, w/5' soil repl.
- Proposed vent
- Proposed inspection port
- Pump and fill existing system
- Proposed erosion control
- Benchmark: bottom of siding, el.-100.0'
- Wetland flags by Julie Vondrak (typ.)

TUF-TITE Drainage and Septic Products

Liberty Pumps Pump Specifications

LF40 Series 4/10 HP Submersible Sewage Pump

Notes: 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS. 2. CONSTRUCTION OF PUMP CHAMBER CONFORMS WITH DEP TITLE 5 RECS. 310 CMR, SECTION 15.226. 3. ALL REINFORCEMENT PER ASTM C1227. 4. JOINT SEALED WITH BUTYL RESIN. 5. DESIGNED FOR ASHITO HS-20 LOADING, COVER 1 TO 5 FEET. 6. PUMPS, FLOATS AND PIPE INSTALLED IN CHAMBER. FLOAT ELEVATIONS SET UPON REQUEST. 7. SUPPLIED WITH PUMP CONTROL PANEL W/ALARM. 8. ADDITIONAL PUMPS & DUPLEX CONFIGURATION AVAILABLE.

SHEA 1000 GAL PUMP CHAMBER SIMPLEX PUMP PACKAGE

Notes: 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS. 2. CONSTRUCTION OF PUMP CHAMBER CONFORMS WITH DEP TITLE 5 RECS. 310 CMR, SECTION 15.226. 3. ALL REINFORCEMENT PER ASTM C1227. 4. JOINT SEALED WITH BUTYL RESIN. 5. DESIGNED FOR ASHITO HS-20 LOADING, COVER 1 TO 5 FEET. 6. PUMPS, FLOATS AND PIPE INSTALLED IN CHAMBER. FLOAT ELEVATIONS SET UPON REQUEST. 7. SUPPLIED WITH PUMP CONTROL PANEL W/ALARM. 8. ADDITIONAL PUMPS & DUPLEX CONFIGURATION AVAILABLE.

DESIGN CRITERIA

Building Use: single family dwelling
 Number of Bedrooms: 3 Design No. of People: 6
 Design Flow: 110 gpd/bdrm. Total Daily Flow: 330 gals.
 No Garbage Grinder Allowed
 Design Percolation Rate: sieve analysis
 Leach Area Requirements: 0.66gals/sf
 Total Area Required: 500 S.F.
 Total Area Provided: 504 S.F.
 12' x 42' = 504 S.F.

Soil Data
 9/14/22
 Witness: Leo Cormier
 By: Joseph J. Serwatka, P.E.

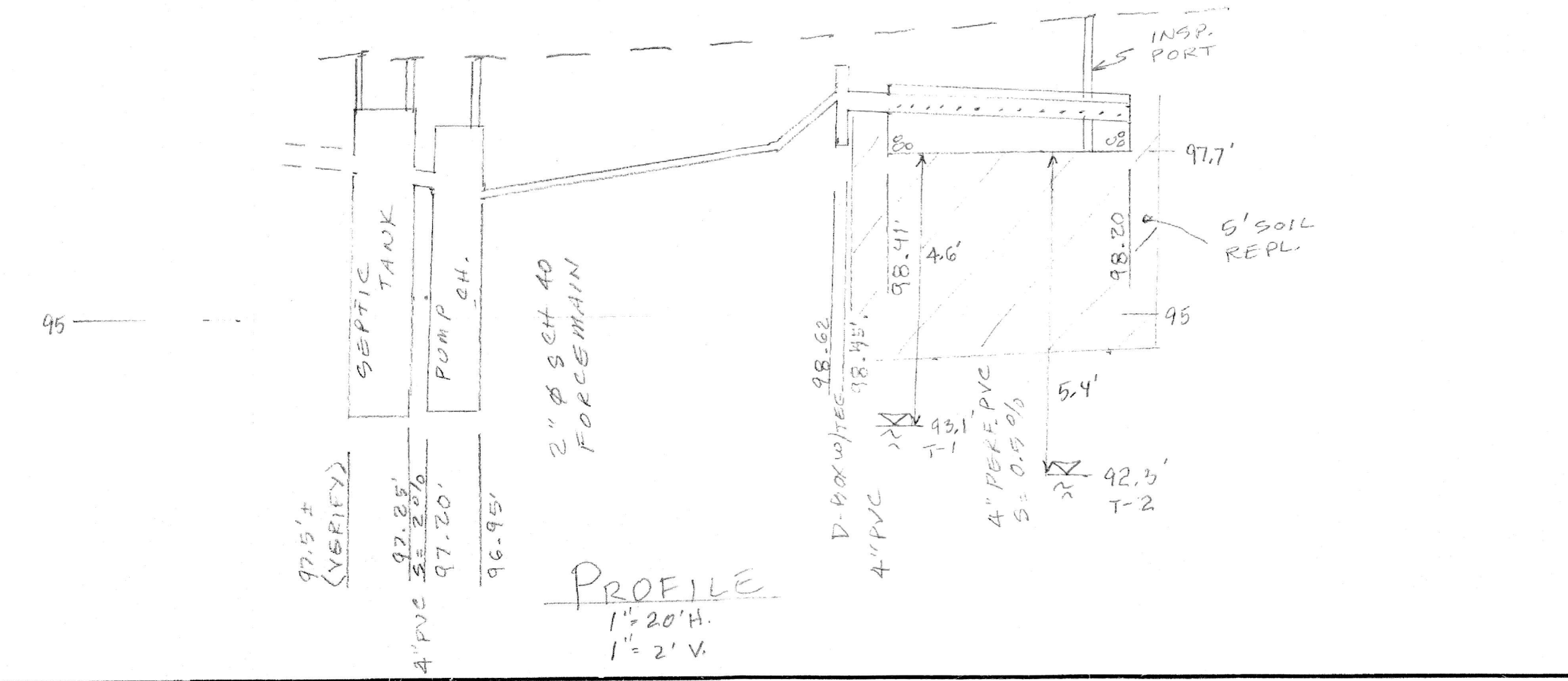
T-1 (99.8') 0-50", fill	T-2 (100.3') 0-52", fill
50-58", Ab, fs, 10YR3/2	52-60", Ab, fs, 10YR3/2
58-65", Bw, fs, 10YR5/8	60-68", Bw, fs, 10YR5/8
65-80", C1, fsand, 2.5Y5/4	68-127", C, fsand, 2.5Y5/4
80-115", C2, fsand, 10YR5/6	e.s.h.w.t. - 96"

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Joseph J. Serwatka, P.E.
 Post Office Box 1016
 North Andover, MA 01845
 978-314-8731



JonWhyman@Icloud.com



I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated on the attached soil evaluation form, are accurate and in accordance with 310 CMR 15.000 through 15.107.

Certified Soil Evaluator: *[Signature]*

Date: 9-20-22

NO.	BY	APP.	DATE	REVISION DESCRIPTION

SEWAGE DISPOSAL SYSTEM SITE PLAN AND PROFILE

23 LONGBOW CIRCLE (map 42, lot 2726)
 LYNNFIELD, MA

DESIGN: _____
 DRAWN: _____
 CHECKED: _____
 SCALE: AS SHOWN
 DATE: _____

PREPARED FOR: PUPPO

SHEET 1 OF 1
 JOB NO. _____