

- NOTES & SPECIFICATIONS:**
- 1) SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
  - 2) ALL TREES AND/OR STUMPS WITHIN 10 FEET OF PROPOSED SYSTEM TO BE CLEARED.
  - 3) NO WELLS EXIST WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
  - 4) 5 FEET FROM SAND FILTER NOT TO BE LOWER THAN ELEVATION 449.00.
  - 5) ANY PRIVATE WELLS, EXISTING & PROPOSED, WITHIN 200' OF OWTS ARE SHOWN.
  - 6) ANY PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF OWTS ARE SHOWN.
  - 7) SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
  - 8) NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UPGRADIENT OR SIDE GRADIENT OR 50' DOWNGRADIENT OF THE LEACHING SYSTEM.
  - 9) ALL SOIL AT LEAST 6" BELOW EXISTING GRADE AT BOTTOMLESS SAND FILTER SHALL BE STRIPPED AND BACKFILLED WITH FILTER SAND.
  - 10) THE SEPTIC TANK SHALL BE A WATERTIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE PVC WITH SECURE FIBERGLASS LIDS. IF CONCRETE TANK IS USED, ABS TANK ADAPTER SHALL BE CAST IN PLACE. TANK SHALL BE VACUUM TESTED WHEN CONSTRUCTED (W/CERTIFICATE) OR WATER TESTED/VACUUM TESTED ON SITE PRIOR TO ACCEPTANCE FROM THE ENGINEER.
  - 11) THE ADVANTEX-AX TREATMENT SYSTEM CONTAINS A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED FILTER UNIT.
  - 12) ALL PUMPS SHALL BE EQUIPPED WITH A HIGH WATER LEVEL VISIBLE AND AUDIBLE ALARM POWERED BY A CIRCUIT SEPARATE FROM THE PUMP POWER. THE ALARM SHALL BE LOCATED IN A NORMALLY OCCUPIED AREA OF THE DWELLING OR SHALL BE INSTALLED AT A LOCATION TO BE DESIGNATED BY THE HOMEOWNER.
  - 13) THE SEPTIC TANK SHALL BE PROVIDED WITH A PVC INLET TEE AND SCREENING PUMP VAULT IN THE OUTLET END. AN ACCESS RISER SHALL BE INSTALLED DIRECTLY ABOVE THE SCREENED PUMP VAULT AND INLET TEE.
  - 14) ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D<sub>10</sub>) OF 0.33 mm (+/-) AND UNIFORMITY COEFFICIENT (D<sub>60</sub>/D<sub>10</sub>) OF 3.0 TO 4.0. THE MAXIMUM ALLOWABLE PERCENTAGE OF FINES PASSING THROUGH A NUMBER 200 SIEVE SHALL BE 1% OTHER THAN THE GRADATION AND FINE CONTENT SPECIFIED ABOVE, THE SAND MEDIA SHALL MEET OTHER ASTM C-33 SAND SPECIFICATIONS.
  - 15) IF CONTRACTOR ENCOUNTERS ANY CONDITIONS DURING CONSTRUCTION WHICH INDICATE THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, OR FIND CONFLICTING INFORMATION ON THE PLAN, CONSTRUCTION SHALL CEASE AND DESIGNER BE NOTIFIED.
  - 16) THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF AN ISDS USER, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE SYSTEM.
  - 17) NO STRUCTURES, PERMANENT FEATURES OR LARGE, HEAVY OR NUMEROUS DECORATIONS SHALL BE PLACED ON TOP OF THE BOTTOMLESS SAND FILTER THAT WOULD OBSTRUCT, PREVENT OR HINDER OPERATION AND MAINTENANCE OR ACCESS TO THE BSF.
  - 18) ACCESS PORTS OR MANHOLES SHALL BE REQUIRED FOR SEQUENCING VALVES AND SHALL BE SUFFICIENTLY SIZED TO FACILITATE MAINTENANCE.
  - 19) TIMER SETTINGS SHALL BE CHECKED AT EVERY ESTABLISHED MAINTENANCE AND INSPECTION VISIT AND WHEN HOME OCCUPANCY CHANGES AND ADJUSTED AS NEEDED.
  - 20) THE PANEL BOX MUST BE WITHIN VIEW OF THE SYSTEM LOCATION TO HELP FACILITATE OPERATION AND MAINTENANCE.
  - 21) THE SPACE FROM THE ENDS OF THE LATERALS TO THE LINER SHALL BE CLOSE TO HALF THE ORIFICE SPACING AND BE ABLE TO ACCOMMODATE THE FITTINGS AND HAVE SUFFICIENT SPACE FOR MAINTENANCE ACTIVITIES.
  - 22) SWEEP ELBOWS SHALL BE ATTACHED TO THE DISTAL END OF EACH LATERAL TO FACILITATE MAINTENANCE AND INSPECTION.
  - 23) REFER TO OPERATION & MAINTENANCE AGREEMENT FOR PROPER MAINTENANCE OF ALL SYSTEM COMPONENTS.

**SYSTEM SIZING:**

3 BEDROOMS: 115 GPD x 3 = 345 GPD  
SOIL CATEGORY: 6  
APPLICATION RATE: 2.3 GPD/SF  
AREA REQUIRED: 345/2.3 = 150 SF  
AREA PROVIDED: 7.75' x 20' = 155 SF

**TIMER INFO:**

SET ADVANTEX TIMER TO 24 DOSES/DAY  
345 GPD/24 DOSES/DAY = 14.38 GAL/DOSE  
14.38/36.5 GPM = .39 MIN.  
TOTAL PUMP RUN TIME = 9.36 MIN./DAY  
TIME OFF PER CYCLE = 1430.64 MIN./DAY  
TIME ON PER CYCLE = 59.61 MIN.  
TIME ON PER CYCLE = 0.39 MIN.

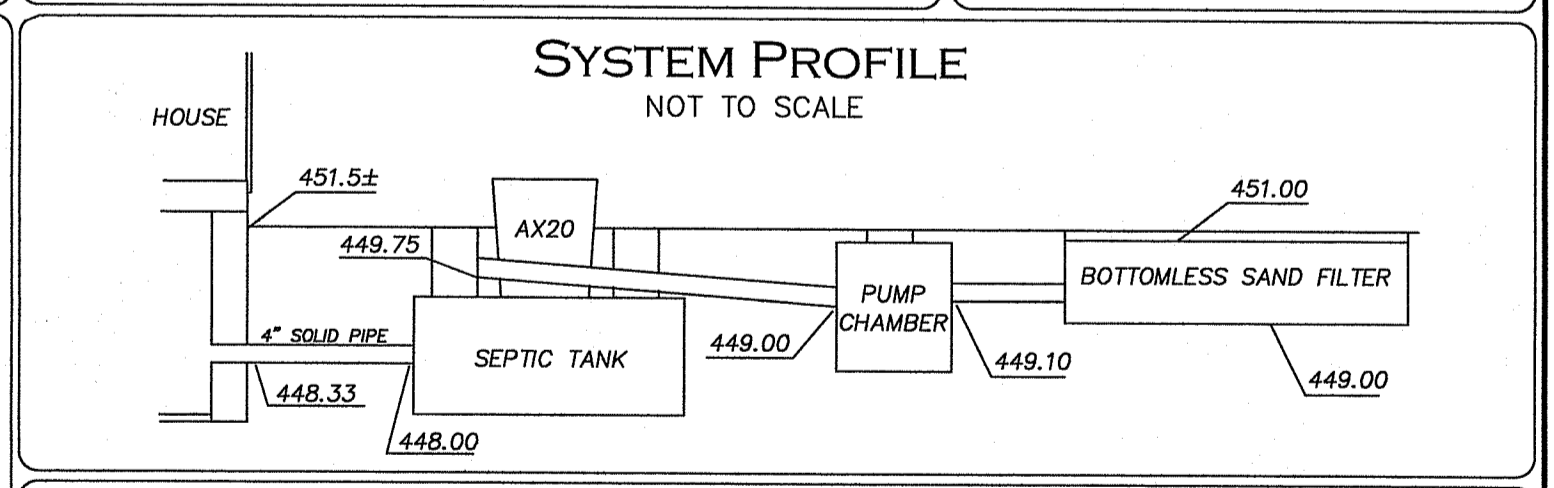
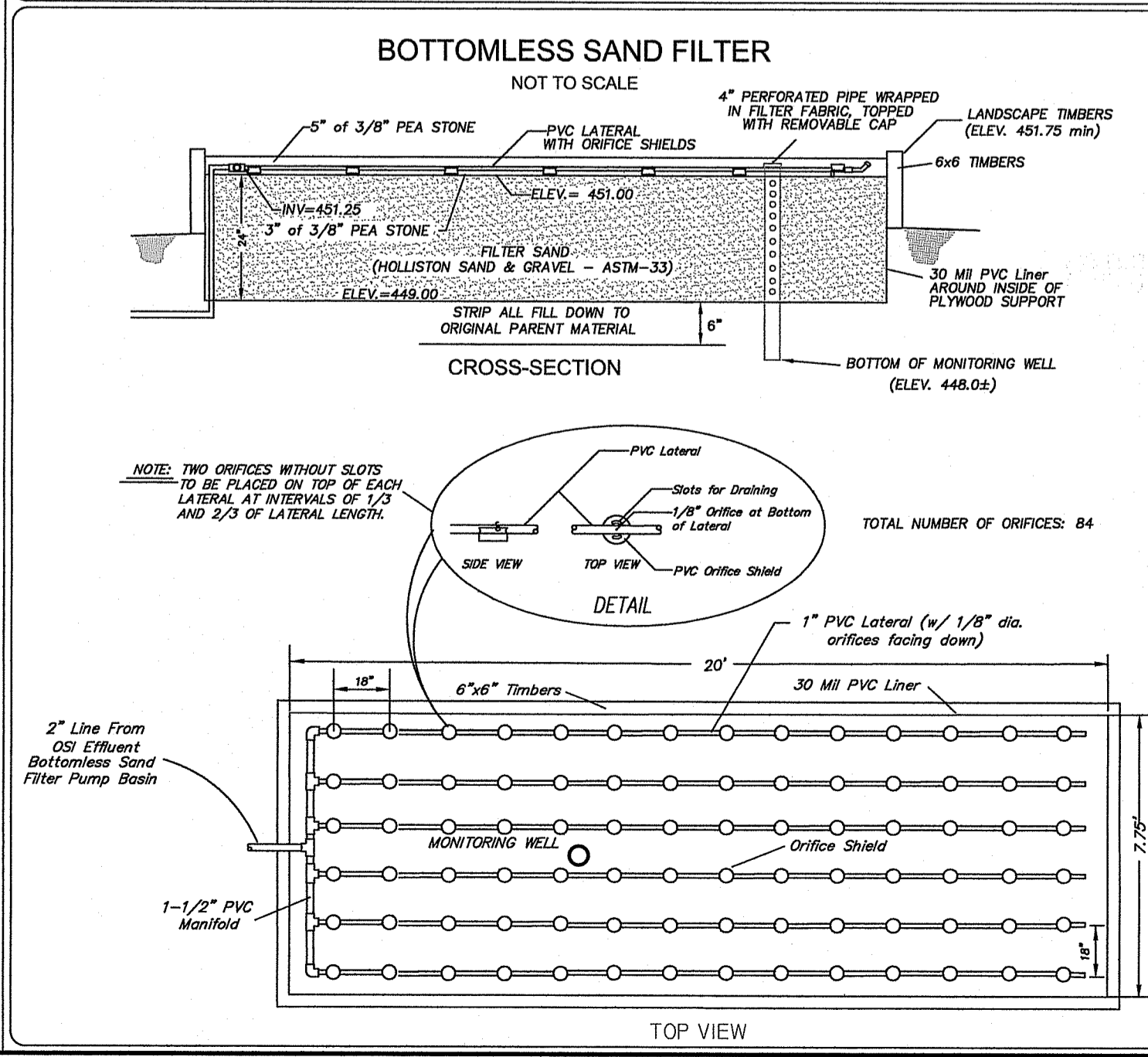
**DOSE RATE:**

14.38 GAL/DOSE  
PUMP CHAMBER CAPACITY = 23.5 GAL./FT OR 1.96 GAL./INCH  
PUMP CHAMBER DEPTH @ 14.38 GAL. = .61 FEET  
DOSE PER ORIFICE: 345 GPD/(24 DOSES/DAY)/84 ORIFICES = .17 GAL./ORIFICE/DOSE

**TEST HOLE DATA**  
DATE: 5/26/22

TH 1 0'-40" Bw, SL, 10YR 6/8 40"-48" C, CB, SL, 2.5YR 5/3 ESHW: 48" LEDGE AT 48"	TH 3 0'-20" Bw, SL, 10YR 4/8 20"-30" Bw2, SL, 2.5YR 4/4 30"-84" C, SL, 5YR 5/3 ESHW: 84" LEDGE AT 84"
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**ZONING: F5**  
MINIMUM SETBACKS:  
FRONT - 40'  
SIDE - 15'  
REAR - 40'



**ONSITE WASTEWATER TREATMENT ALTERATION & WETLANDS PLAN**

PAUL D. CARLSON  
No. 7142  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL

A.P. 227 LOT 72  
346 CAMP DIXIE ROAD, BURRILLVILLE, RHODE ISLAND

PREPARED FOR: NORMAN LESPERANCE  
576 SOUTH MAIN STREET, WOONSOCKET, RI 02895

JOB # 22-035  
SCALE: 1" = 20'  
DRAWN BY: LMB  
DATE: JUNE, 2022

REVISED:

PROFESSIONAL SEAL

**INSITE** Engineering Services, LLC  
PROFESSIONAL ENGINEERS | LAND SURVEYORS  
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