



- NOTES**
- SYSTEM INSTALLATION TO BE SUPERVISED BY THE DESIGNER.
 - ALL TREES AND/OR STUMPS WITHIN 100 FEET OF PROPOSED SYSTEM TO BE CLEARED.
 - NO WELL EXISTS WITHIN 100' OF THE PROPOSED LEACHING SYSTEM.
 - 5 FEET FROM SAND FILTER NOT TO BE LOWER THAN ELEVATION 96.50.
 - ANY PRIVATE WELLS EXISTING & PROPOSED, WITHIN 200' OF ISDS ARE SHOWN.
 - ANY PUBLIC WELLS, EXISTING AND PROPOSED, WITHIN 500' OF ISDS ARE SHOWN.
 - SEPTIC TANK TO BE A MINIMUM OF 75' FROM ALL WELLS.
 - NO DRAINS OF ANY KIND SHALL BE WITHIN 25' UPGRADIENT OR 50' DOWNGRADIENT OF THE LEACHING SYSTEM.
 - ALL SOIL AT LEAST 6" BELOW EXISTING GRADE AT BOTTOMLESS SAND FILTER SHALL BE STRIPPED AND BACKFILLED WITH FILTER SAND.
 - THE SEPTIC TANK SHALL BE A WATER-TIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. RISERS SHALL BE A WATER-TIGHT, 1,500 GALLON 2-COMPARTMENT TANK WITH 24" DIAMETER INLET AND OUTLET ACCESS RISERS. TANK SHALL BE VACUUM TESTED (VAC/CRIP/TEST) OR WATER TESTED/VACUUM TESTED ON SITE PRIOR TO ACCEPTANCE FROM THE ENGINEER.
 - THE ADVANTEX TREATMENT SYSTEM CONTAINS A PACKED BED FILTER THAT USES SPECIALLY DESIGNED TEXTILE MATERIALS WITHIN A PRE-ASSEMBLED FILTER UNIT.
 - 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.
 - 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.
 - ALL MEDIA WITHIN THE ENCLOSURE AND BELOW THE COVER STONE SHALL HAVE AN EFFECTIVE SIZE (D₅₀) OF 0.33 mm (+/-) AND UNIFORMITY COEFFICIENT (D₈₅/D₅₀) 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 & FINE CONTENT SPECIFIED ABOVE; THE SAND MEDIA SHALL MEET OTHER ASTM C-33 SAND SPECIFICATIONS.
 - 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.
 - THE DESIGNER IS NOT RESPONSIBLE FOR ANY OMISSION OF AN ISDS USER, INCLUDING BUT NOT LIMITED TO, FUTURE PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE SYSTEM.
 - LOCAL SUPPLIER OF OSI EQUIPMENT: ATLANTIC SOLUTIONS, 2417 EAST MAIN ROAD, PORTSMOUTH, RI 02871. TEL: (401) 885-2222.
 - 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. MAINTENANCE ACCESS PORTS OR MANHOLES SHALL BE REQUIRED FOR SEQUENCING VALVES AND SHALL BE SUFFICIENTLY SIZED TO FACILITATE.
 - SEWER SETTING SHALL BE CHECKED AT EVERY ESTABLISHED MAINTENANCE AND INSPECTION VISIT AND WHEN HOME OCCUPANCY CHANGES AND ADJUSTED AS NEEDED.
 - THE PANEL BOX MUST BE WITHIN VIEW OF THE SYSTEM LOCATION TO HELP FACILITATE OPERATION AND MAINTENANCE.
 - 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.
 - SHEEP ELBOWS SHALL BE ATTACHED TO THE DISTAL END OF EACH LATERAL TO FACILITATE MAINTENANCE AND INSPECTION.
 - REFER TO OPERATION & MAINTENANCE AGREEMENT FOR PROPER MAINTENANCE OF ALL SYSTEM COMPONENTS.
 - THE LOCATION OF ALL STRUCTURES, EXISTING OWIS'S, AND WATER LINES WITHIN 100' OF PROPERTY LINES ARE SHOWN OR DELETED. KNOWN CROSSINGS ARE LABELED AS SUCH.
 - THE SITE IS LOCATED WITHIN A DRINKING WATER SUPPLY WATERSHED CRITICAL RESOURCE AREA.

PROPOSED ONSITE WASTEWATER TREATMENT SYSTEM & WETLANDS PLAN for PETER GRUNDY
PLAT 23, LOT 7
18 KINGS ROW, CUMBERLAND, RHODE ISLAND
SEPTEMBER, 2021
SCALE 1" = 30'
REVISED: 5-31-22
GRAPHIC SCALE

SYSTEM SIZING:
4 BEDROOMS: 115 GPD x 4 = 460 GPD
SOIL CATEGORY: 1
APPLICATION RATE: 2.3 GPD/SF
AREA REQUIRED: 460/2.3 = 200 SF

TIMER INFO:
SET ADVANTEX TIMER TO 24 DOSES/DAY
460 GPD/24 DOSES/DAY = 19.16 GAL/DOSE
19.16/2.31 GPM = .83 MIN.
TOTAL PUMP RUN TIME = 19.92 MIN./DAY
TOTAL PUMP OFF TIME = 1380.83 MIN./DAY
TIME OFF PER CYCLE = 59.17 MIN.
TIME ON PER CYCLE = 0.83 MIN.

DOSING RATE:
19.16 GAL/DOSE
PUMP CHAMBER CAPACITY = 23.5 GAL/FT OR 1.96 GAL/INCH
PUMP CHAMBER DEPTH @ 19.16 GAL = .81 FEET
DOSE PER ORIFICE = 460 GPD/(24 DOSES/DAY)/84 ORIFICES = .23 GAL/ORIFICE/DOSE

CERTIFICATION
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:
LIMITED CONTENT BOUNDARY SURVEY, CLASS IV
TOPOGRAPHIC ACCURACY: T4

STATEMENT OF PURPOSE
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND THE PREPARATION OF THE PLAN IS AS FOLLOWS: PROPOSED HOUSE

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PROFESSIONAL LAND SURVEYOR
No. 1797

SHEET NUMBER
1 of 1

JOB NUMBER
19-132