

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREON OR NOT, SHALL BE IN CONFORMANCE WITH RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS* NOVEMBER 25, 2018 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
3. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST. OR PROPOSED LOCATED WITHIN 200 FEET OF THE OWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 500 FEET OF THE PROPOSED ISDS.
4. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED OWTS.
5. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
6. NO FOUNDATION DRAINS ARE ALLOWED.

- PEAK FLOW = 2 BEDROOMS @ 115 GALLONS PER DAY / BEDROOM = 230 GPD
- CATEGORY 1 SYSTEM SOIL CAT 4 USE 3.1 GAL/SF/DAY LOADING RATE
- SIZE A BOTTOMLESS SAND FILTER:
 - 230 GPD / 3.1 GAL/SF/DAY = 74.2 S.F.
 - USE A 8' X 12' BOTTOMLESS SAND FILTER 96 S.F.

OUT OF DWELLING	EL. 97.10
DESIGN G.W.T. BSF/TANK	EL. 97.50
SEPTIC TANK IN	EL. 97.00
T.O.P OF SEPTIC TANK	EL. 97.92
R.S.V. TO PUMP CHAMBER	EL. 97.00
AX20 FILTER POD INLET	EL. 99.10
TOP OF ADVANTEX FILTER	EL. 99.60
PUMP CHAMBER INLET	EL. 97.50
PUMP CHAMBER OUT	EL. 98.00
BOTTOM OF SAND	EL. 98.50
BOTTOM OF PEA GRAVEL	EL. 100.50
FLUSHING VALVE	EL. 101.00
BSF MANIFOLD	EL. 101.00
TOP OF PEA GRAVEL	EL. 101.20

TOM OF CHAMBER	EL. 95.50
UNDANT OFF	EL. 96.30
P ON	EL. 97.00
WATER ALARM	EL. 97.30

SYSTEM FLOAT LEVELS	
ER ALARM	E
E TIMER ON/OFF	E
ER ALARM/REDUNDANT OFF	E

1. SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
3. PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOL MATERIAL, STONES, ROOTS, LUMBS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATIONS, AS AMENDED.
4. THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	LBS./ACRE
KENTUCKY BLUE FESCUE	75
ORCHARD BLUE GRASS	15
COLONIAL BENT GRASS	15
PERENNIAL RUE GRASS	5
5. EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZER AS REQUIRED BY SOIL TESTING COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE SEEDING AND PLANTING WITH APPROPRIATE INOCULUM FOR EACH VARIETY. THE RECOMMENDED SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 30TH.
6. TEMPORARY TREATMENTS SHALL CONSIST OF NORTH AMERICAN GREEN S150 SEDIMENT CONTROL BLANKET OR EQUIVALENT TO BE APPLIED WITHIN 14 DAYS OF THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
7. APPROPRIATE EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL AS ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
8. ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
9. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR ANY WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED OR STABILIZED.
10. THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND SUPERVISOR. CONTRACTOR WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF SIX (6) MONTHS AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
11. MAXIMUM GRADED SLOPE TO BE 3:1 UNLESS NOTED OTHERWISE ON THE PLANS.
12. REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY USDA, SOIL CONSERVATION SERVICE AS A GUIDE.



NOT TO SCALE

1. THE OWTS INSTALLER SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES DEPICTED ON THIS PLAN.
2. THE INSTALLER SHALL NOTIFY THIS DESIGNER 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
3. THE DESIGNER SHALL BE CONTACTED IF ANY DISCREPANCIES ARE FOUND IN THE FIELD.
4. THE INSTALLER SHALL CONTACT THE DESIGNER AT LEAST 24 HOURS IN ADVANCE FOR BOTTOM AND COVER INSPECTIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING DURING EXCAVATION OF ALL COMPONENTS OF THE OWTS.

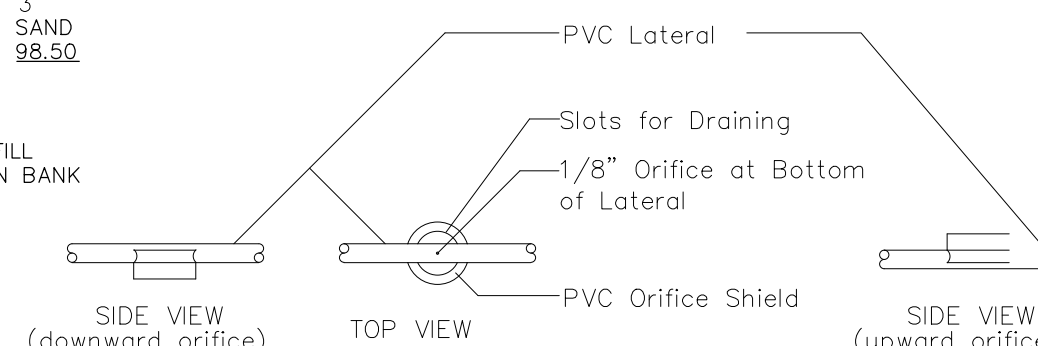


BUILDING TO SEPTIC TANK	→	4" SCH 35 OR GREATER
SEPTIC TANK TO TEXTILE FILTER	→	1" CLASS 200
TEXTILE FILTER MANIFOLD	→	1" CLASS 200
TEXTILE FILTER LATERALS	→	3/4" CLASS 200
TEXTILE FILTER TO PUMP BASIN	→	3" SCH 35 OR GREATER
PUMP BASIN TO DRAINFIELD	→	2" CLASS 200
DRAINFIELD MANIFOLD	→	1 1/4" CLASS 200
DRAINFIELD LATERALS	→	3/4" CLASS 200

28 ORIFICE * 0.24 GAL PER ORIFICE = 6.72 GALLONS
52 LF 2" TRANSPORT LINE VOLUME = 9.8 GALLONS
TOTAL DOSED = 16.52 GALLONS PER DOSE
PUMP BASIN DRAWDOWN:
16.52 GAL PER DOSE / 2 GAL PER INCH = 8.62" = 0.70'
230 GAL PER DAY / 16.52 GAL PER DOSE = 14 DOSES PER DAY



NOT TO SCALE



THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT EROSION CONTROLS SHOWN ON THIS PLAN ARE MINIMUM REQUIRED BASED ON THE FINAL GRADING CONDITIONS. DURING CONSTRUCTION ADDITIONAL CONTROLS MAY BE REQUIRED DUE TO TEMPORARY GRADING, EXCESSIVE RAIN EVENTS, AND/OR GRADING CONDITIONS ON ADJACENT LOTS THAT DO NOT MATCH THE SUBDIVISION PLAN.



ADVANCING

EST. 2001

EST. 2007

REGISTERED
PROFESSIONAL ENGINEER

1857

DATE: APRIL, 2025

SCALE: AS NOTED

DESIGN/CHECK BY BY: D.P.J./N.

SHEET NO.

References

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1. **Introduction**

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