

INFILTRATION CHAMBER SIZING:

1,400 S.F. ROOFTOP

ONE FOR WATER QUALITY SYSTEM (1") STORAGE

1,400 S.F. X 1" = 117 CUBIC FEET

USE (2) STORMTECH 5074 UNDERGROUND CHAMBERS

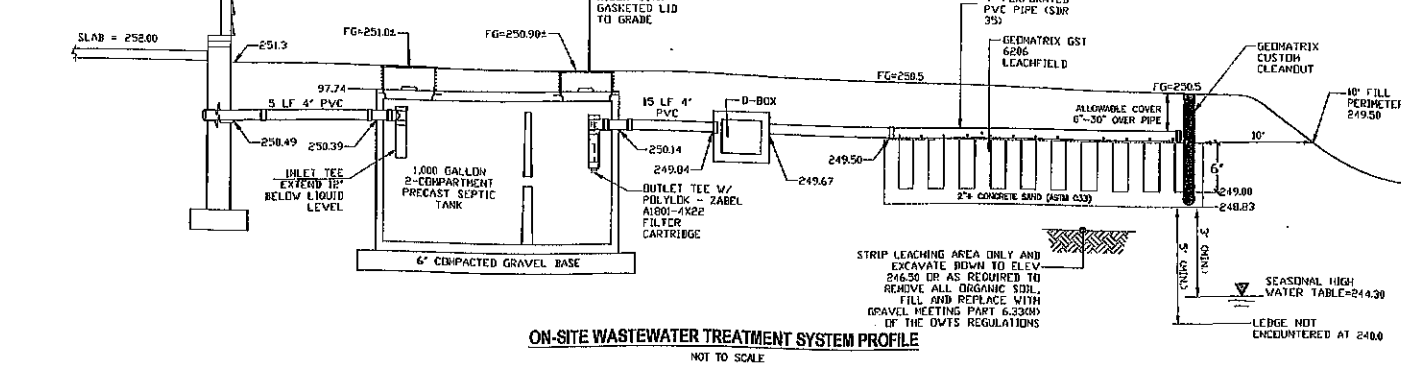
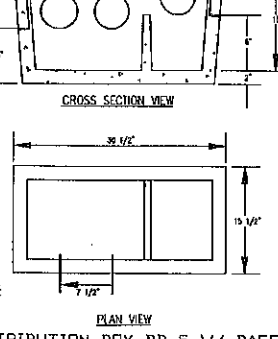
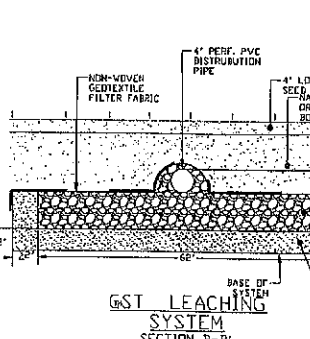
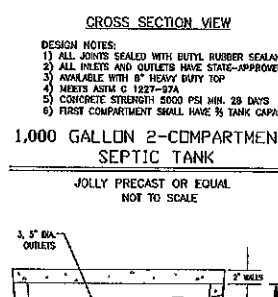
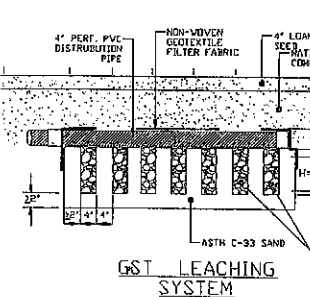
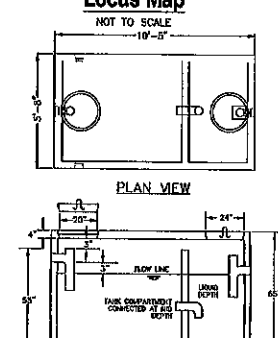
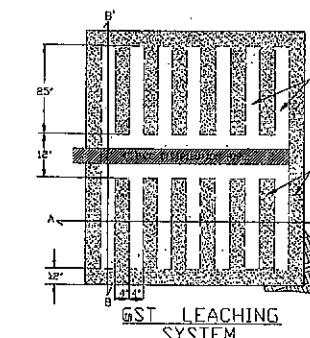
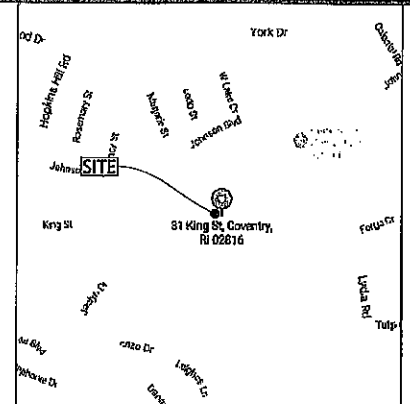
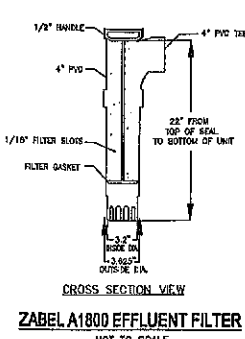
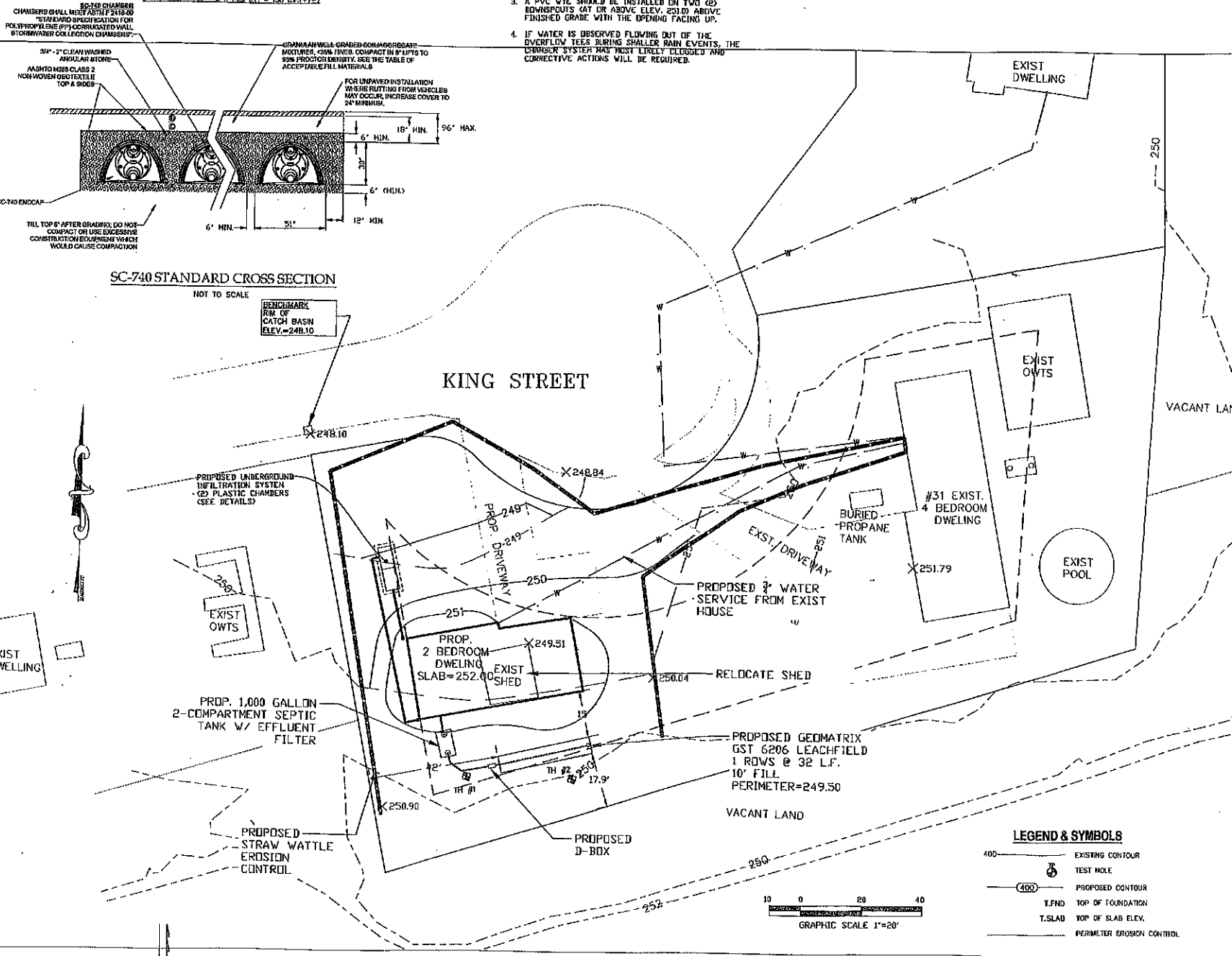
WITH 6" STONE BELOW AND ABOVE AND 12" AROUND

STORAGE PROVIDED = 2 X 74.0 C.F. = 148 C.F. (+/-)

STORMWATER OPERATION & MAINTENANCE

1. THE HOMEOWNER WILL HAVE THE RESPONSIBILITY TO MAINTAIN THE FUNCTIONALITY OF GRADING AND DRAINAGE MEASURES SHOWN ON THIS PLAN.
2. ANY PONDING OBSERVED AFTER 48 HOURS MUST BE INSPECTED AND CORRECTED TO RE-ESTABLISH INFILTRATION.
3. A PVC WYE SHOULD BE INSTALLED ON TWO (2) DOWNSPUTS (AT OR ABOVE ELEV. 251.0) ABOVE FINISHED GRADE WITH THE OPENING FACING UP.
4. IF WATER IS OBSERVED FLOWING OUT OF THE OVERFLOW TEES DURING SHALLER RAIN EVENTS, THE CHAMBER SYSTEM HAS MOST LIKELY CLOGGED AND CORRECTIVE ACTIONS WILL BE REQUIRED.

SOIL EROSION & SEDIMENT CONTROL NOTE:
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 UNUSUAL GRADING, EXCESSIVE RAIN EVENTS, AND/OR GRADING CONDITIONS ON ADJACENT LOTS THAT DO NOT MATCH THE GRADING PLAN.



LEACHFIELD DESIGN CALCULATION

- 2 BEDROOMS X 115 GALLONS PER BED/DAY = 230 GALLONS PER DAY
- DESIGN LOADING RATE, SOIL CATEGORY = 0.20 GAL/SF/DAY
- 230 GPD / 0.20 GAL/SF/DAY = 320 SF. LEACHING AREA REQUIRED
- DESIGN GEOMATRIX GST 6206 LEACHFIELD
- 320 SF. / 10.3 SF. PER L.F. OF GST 6206 = 31.9 LF. REQUIRED
- 32 LF. PROVIDED
- 32 X 10.3 SF. PER L.F. = 330 SF. LEACHING AREA PROVIDED
- MATERIAL QUANTITIES:
- 3/4" STONE = 0.2 X 32 = 7 CUBIC YARDS
- ASTM C-33 CONCRETE SAND = 0.25 X 32 = 8 CUBIC YARDS

INSTALLATION NOTES:

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2'-3" DEEP X 3' WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT THE SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ADJUT.
3. SECURE THE WATTLE WITH 18" X 24" STAKES EVERY 3' - 4' WITH A STAKE IN EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLES LEAVING AT LEAST 6" - 8" OF STAKE EXTENDING ABOVE. THE WATTLE STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.

STRAW WATTLE EROSION CONTROL

NOT TO SCALE

General Notes

1. CONTRACTOR SHALL NOTIFY BIG-SAFE 72 HOURS PRIOR TO START OF CONSTRUCTION.
2. PROPER EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBING ACTIVITIES.
3. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE TO COORDINATE AND OBTAIN ALL PERMITS FOR CONSTRUCTION.

OnSite Wastewater Treatment System Notes

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE REQUIREMENTS, WHETHER NOTED HEREIN 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, EFFECTIVE NOVEMBER 25, 2018 AND ALL AMENDMENTS, BY THE RHODE ISLAND DEPT. OF ENVIRONMENTAL MANAGEMENT.
2. STRIP LEACHING AREA OUT 5 FEET AROUND PERIMETER AND EXCAVATE DOWN TO ELEVATION 246.30 OR AS REQUIRED UPON INSPECTIONS AND REPLACE WITH GRAVEL AS SPECIFIED IN RICH REGULATIONS IF BELOW SYSTEM BOTTOM.
3. INSTALLER MUST ASSURE THAT BOTTOM AND SIDES OF EXCAVATION FOR THE LEACHFIELD ARE NOT COMPACTED OR SHEARED.
4. ALL TREES, STUMPS, AND BRUSH SHALL BE REMOVED WITHIN 10 FEET OF THE SYSTEM.
5. MAINTAIN INVERT ELEVATION OF 249.50 FOR 10 FEET AROUND SYSTEM.
6. THERE ARE NO KNOWN PRIVATE WELLS OR DRAINS EXIST OR PROPOSED LOCATED WITHIN 200 FEET OF THE DWTS EXCEPT AS SHOWN AND NO KNOWN PUBLIC WELLS (EXIST. & PROP.) LOCATED WITHIN 500 FEET OF THE PROPOSED DWTS.
7. THERE ARE NO KNOWN SUBSURFACE DRAINS, EXISTING OR PROPOSED, WITHIN 50 FEET OF THE PROPOSED DWTS.
8. ALL PVC PIPE SHALL BE 4" DIA. SDR 35 OR EQUIVALENT, UNLESS NOTED OTHERWISE.
9. THE SEPTIC TANK SHALL HAVE TEES ON BOTH THE INLET AND OUTLET AND SHALL BE A TWO (2) COMPARTMENT TANK WITH THE 1ST COMPARTMENT CONSISTING OF 2/3 TANK CAPACITY.
10. THE DISTRIBUTION BOX SHALL HAVE A MINIMUM BOTTOM AREA OF 3 SQUARE FEET.
11. NO VEHICULAR TRAFFIC IS ALLOWED OVER THE LEACHFIELD.
12. THE INSTALLER SHALL CONTACT THE DESIGN OF RECORD AT LEAST 24 HOURS PRIOR TO START OF CONSTRUCTION.

Advanced Civil Design, Inc.

CIVIL ENGINEERS
89 PEPPERTON ROAD
SCITUATE, RI 02857
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ADU-Single-Family Residence

A.P. 41 LOT
31 KING STREET
CONVENTRY, RI 02816
OWNER/APPLICANT:
ANNE MARIE THERIAULT
31 KING STREET
CONVENTRY, RI 02816

ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) PLAN & DETAILS

DATE: APRIL 2024	DESIGNED BY: N.J.P.
SCALE: 1"=20'	CHECKED BY: C.S.R.
DRAWING NO. C-1	