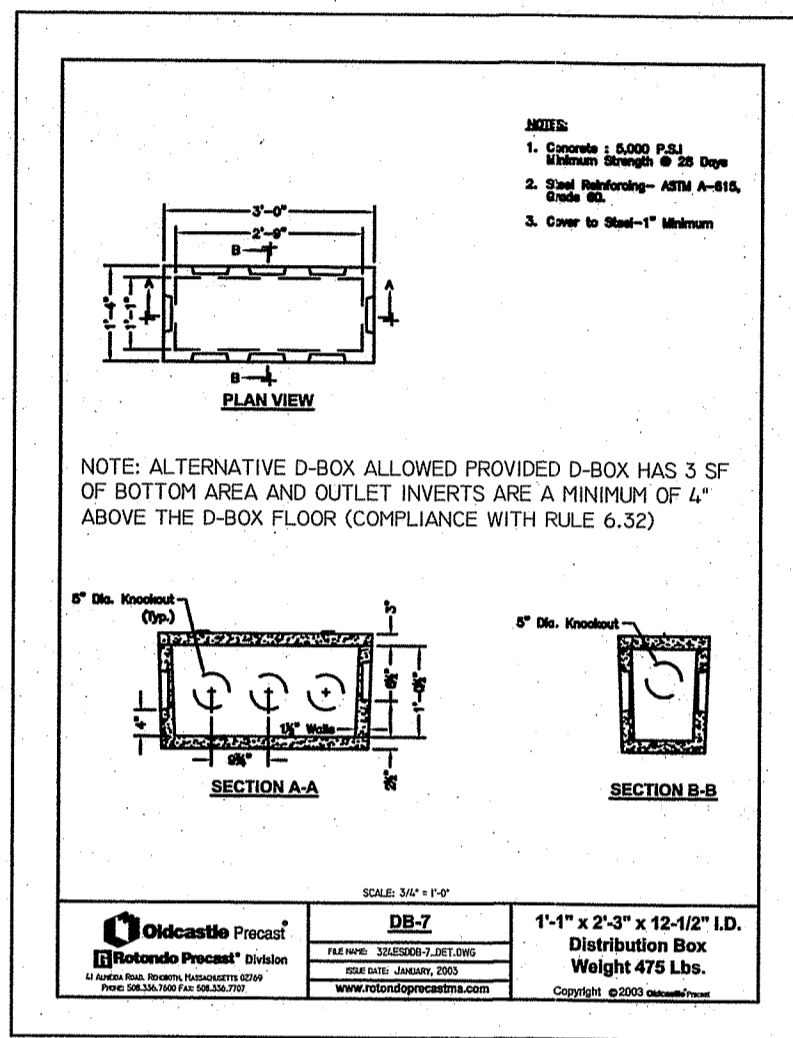
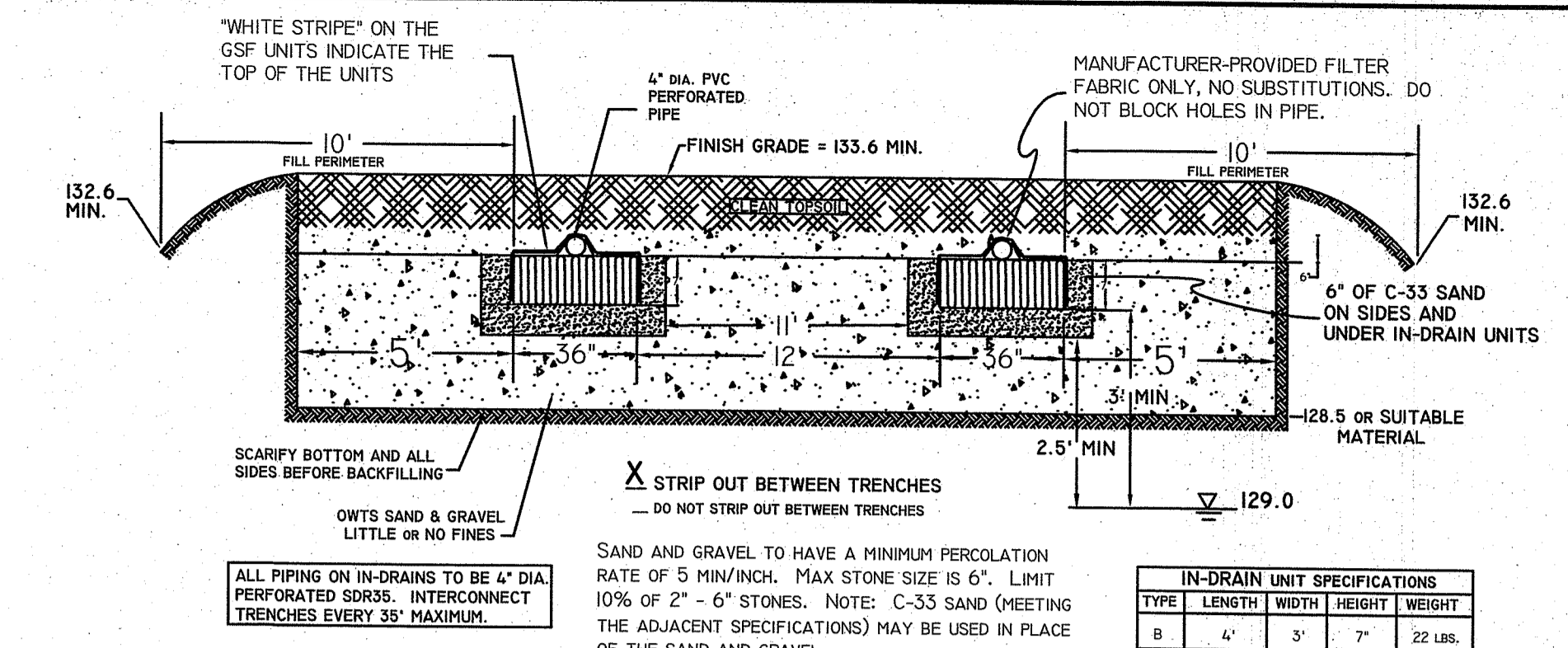


SYSTEM PROFILE
NOT TO SCALE

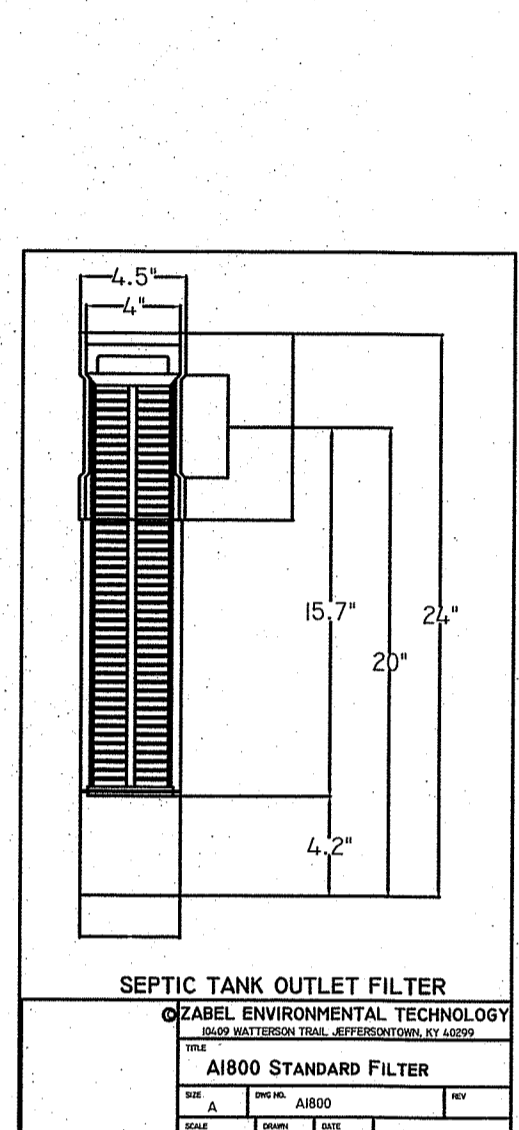
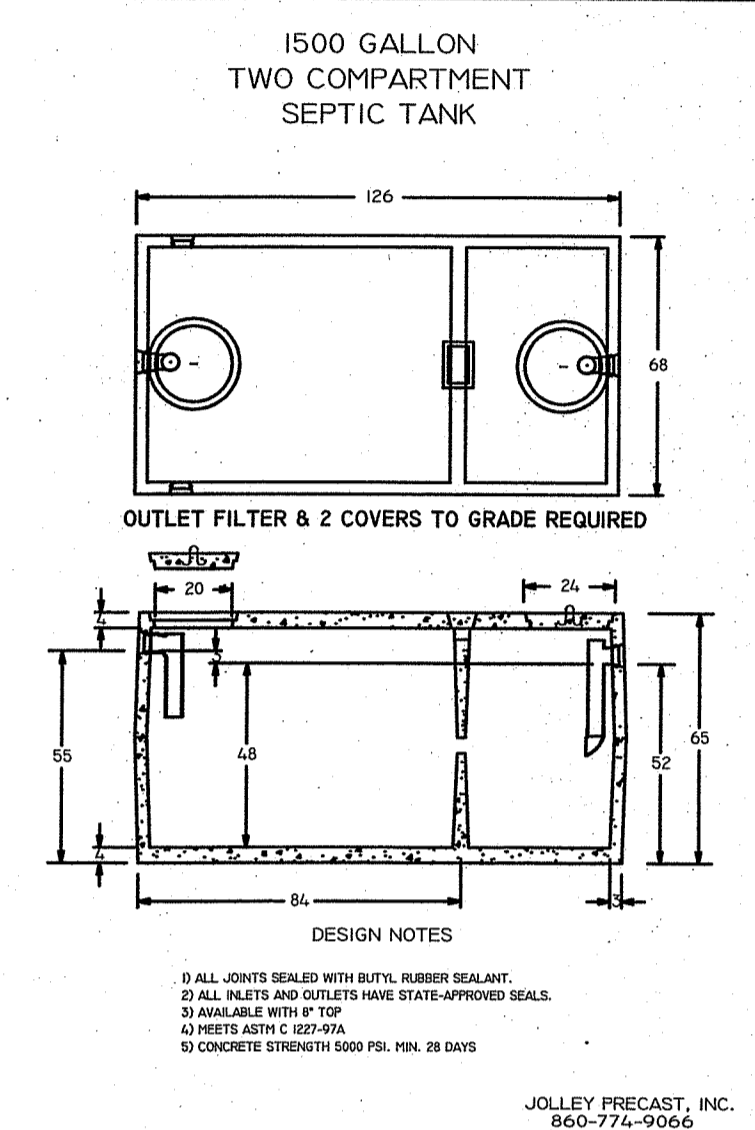


ELEVATION SCHEDULE

FOUNDATION SLAB.....	141.1	
INVERT AT FOUNDATION.....	138.05	(existing)
INVERT INTO SEPTIC TANK.....	135.33	
INVERT OUT OF SEPTIC TANK.....	135.08	
ELEVATION OF WATER TABLE.....	134.0	(24" below 12" of Fill)
EXIST. GRADE AT TANK.....	137.0	
INVERT INTO D-BOX.....	132.92	
INVERT OUT OF D-BOX.....	132.75	
INVERT AT BEGINNING OF TRENCH.....	132.58	
INVERT AT END OF TRENCH.....	132.58	
BOTTOM OF IN-DRAIN.....	132.00	
BOTTOM OF C-33 SAND.....	131.50	(OR SUITABLE MATERIAL)
BOTTOM OF OWTS SAND & GRAVEL.....	128.50	(24" below 12" to 30" of Fill)
ELEVATION OF WATER TABLE.....	129.0	
EXIST. HIGH GRADE AT OWTS.....	132.0	



TYPICAL IN-DRAIN SECTION
NOT TO SCALE



SEPTIC TANK BUOYANCY CALCULATION:
Tank type: 1500 Gallon H-10 Tank Wt: 12,400 lbs.
Weight of Earth Cover (min. of 10" of soil on tank - risers area): 4,703 lbs. - 497 lbs = 4,206 lbs
Weight of risers / covers: 52 lbs
Upward lift (neglecting soil friction): 10.5' (length) x 5.66' (width) x 3.2' (max. submerged depth) x 62.4 lbs/c.f. = 11,867 lbs.
Safety factor: $\frac{12,400 + 4,206 + 52}{11,867} = 1.14$

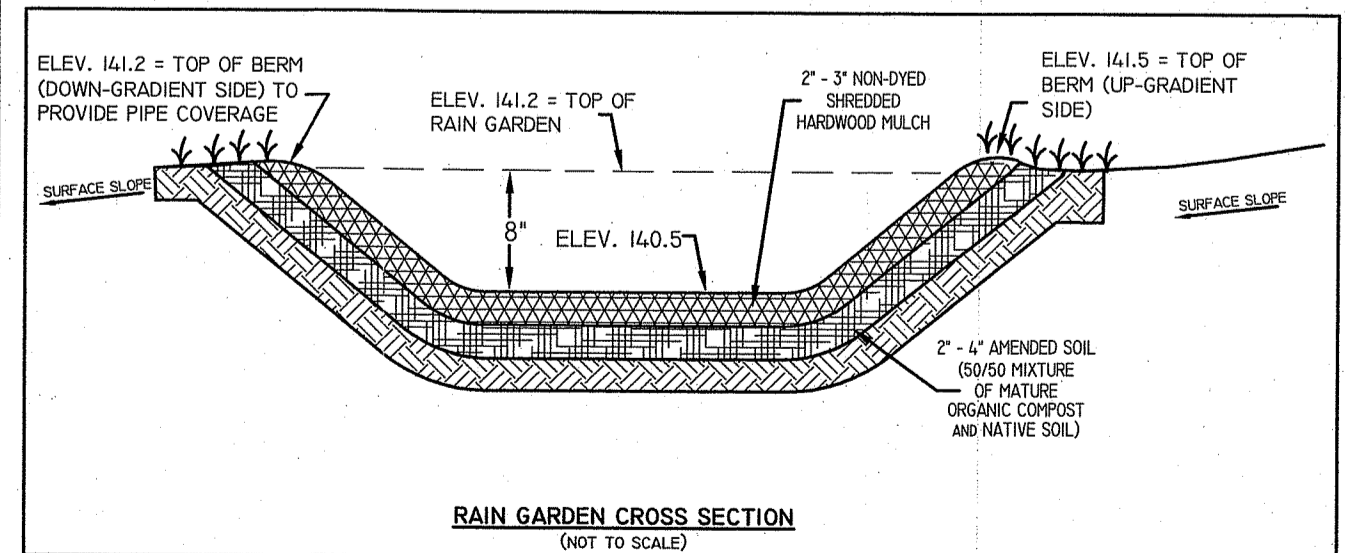
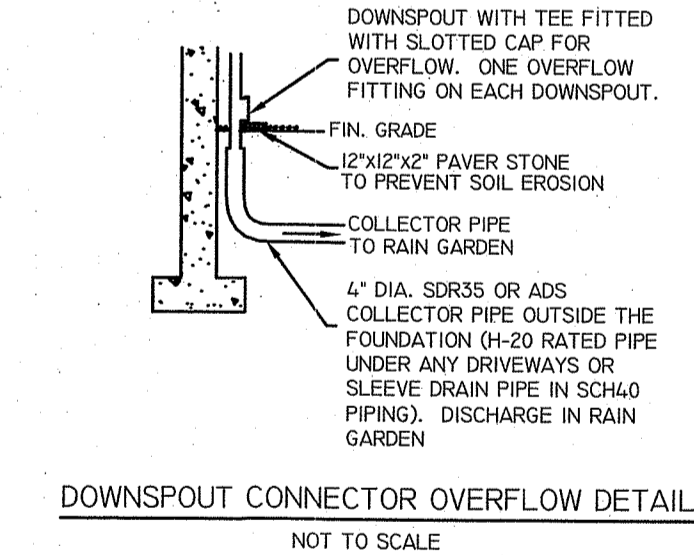
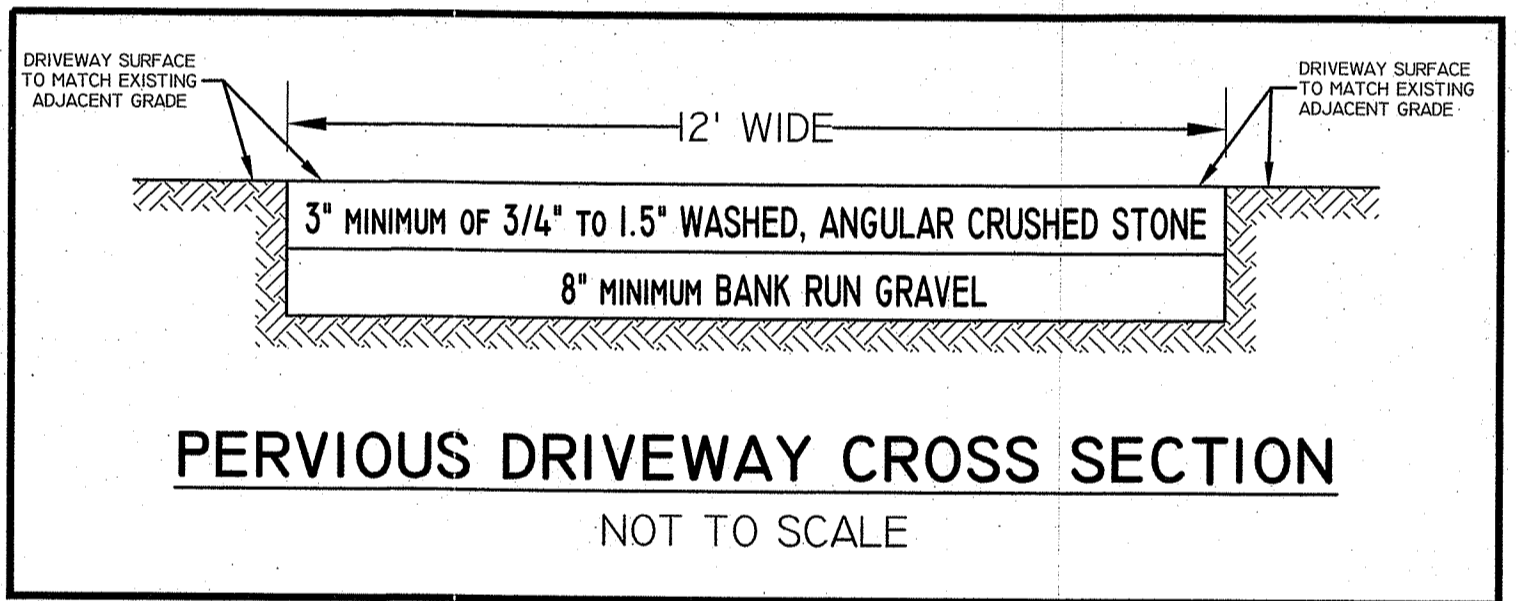
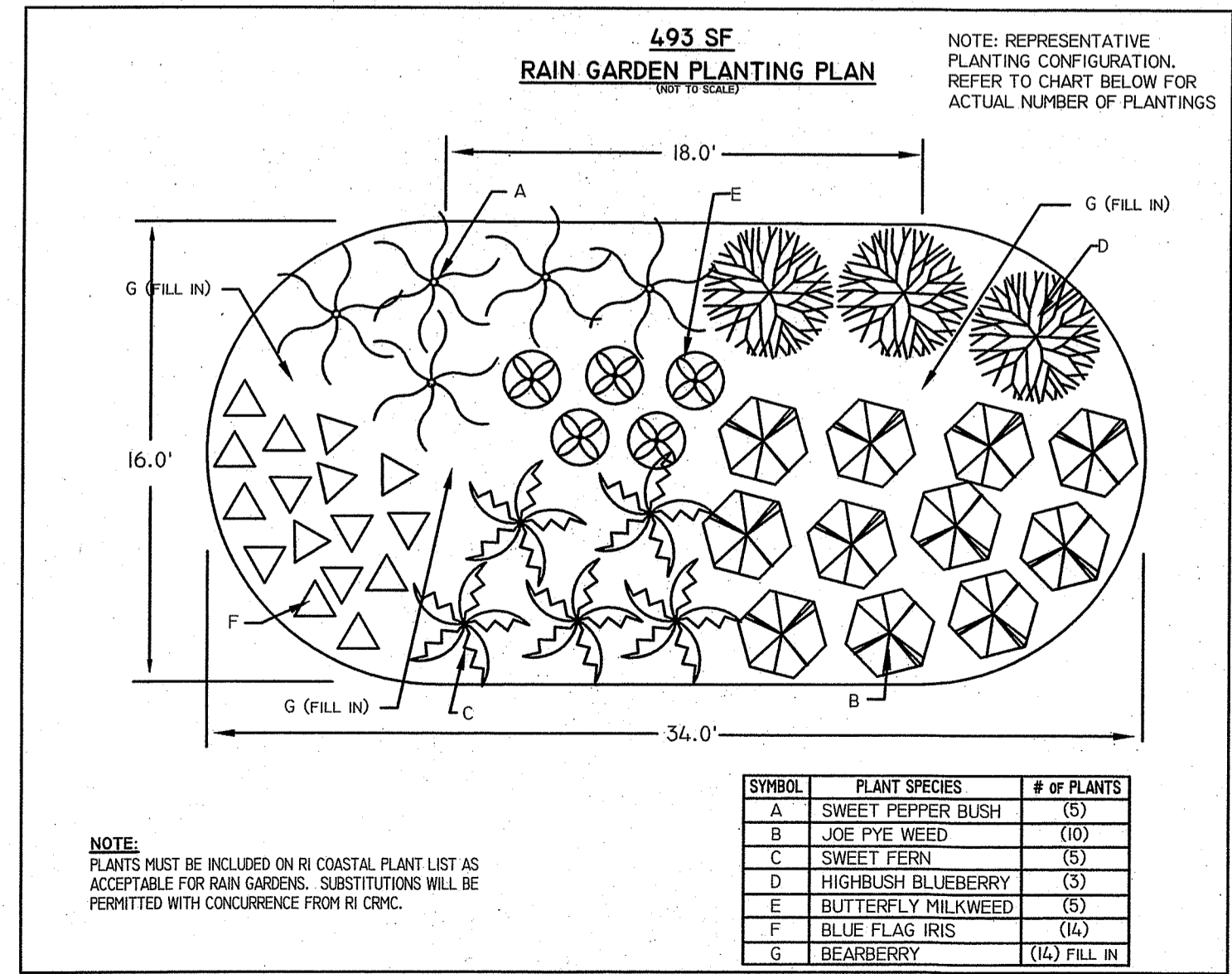
PROPOSED IMPERVIOUS COVERAGE:
1,500 SF EXISTING DWELLING (UNDER CONSTRUCTION)
1,466 SF PROPOSED COVERED WALKWAY & GARAGE

2,966 SF TOTAL IMPERVIOUS COVERAGE PROPOSED (DRIVEWAY TO BE PERVIOUS GRAVEL)

PER RI STORMWATER MANAGEMENT GUIDELINES FOR INDIVIDUAL SINGLE FAMILY RESIDENTIAL LOT DEVELOPMENT, TABLES 7 AND 8, RAIN GARDEN SIZING;

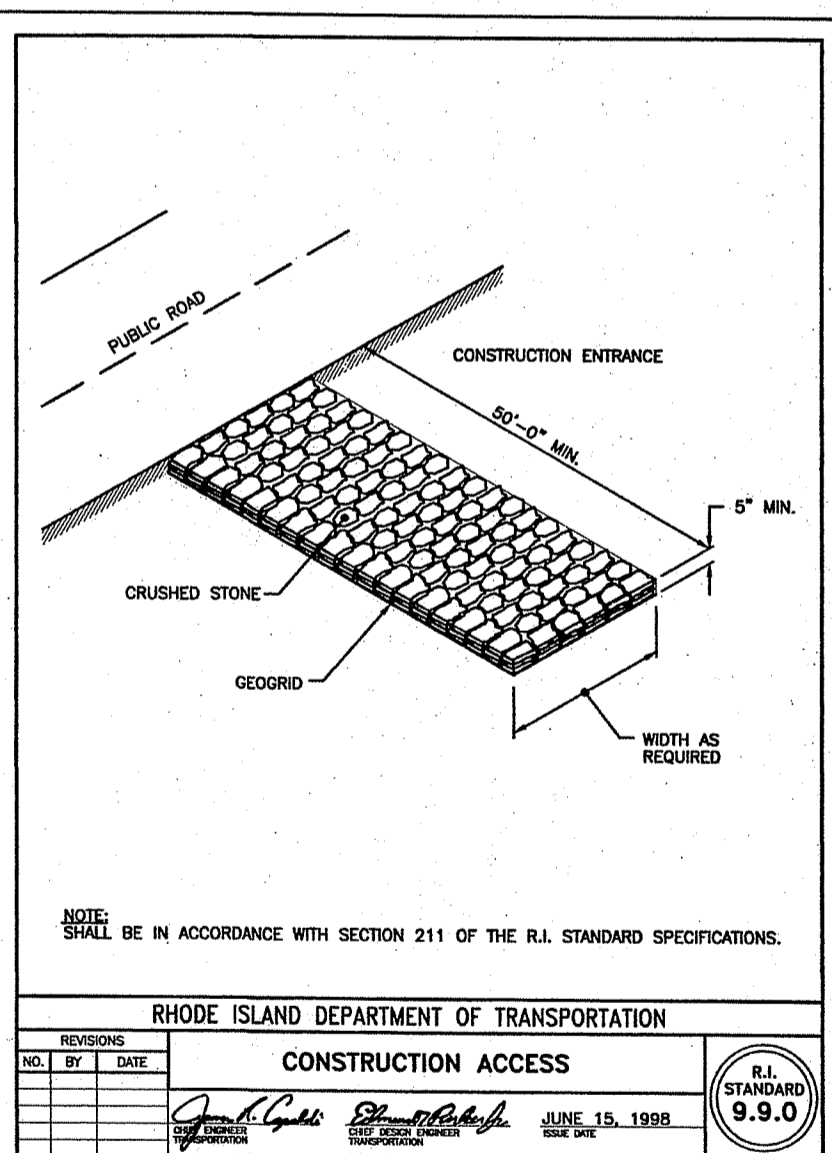
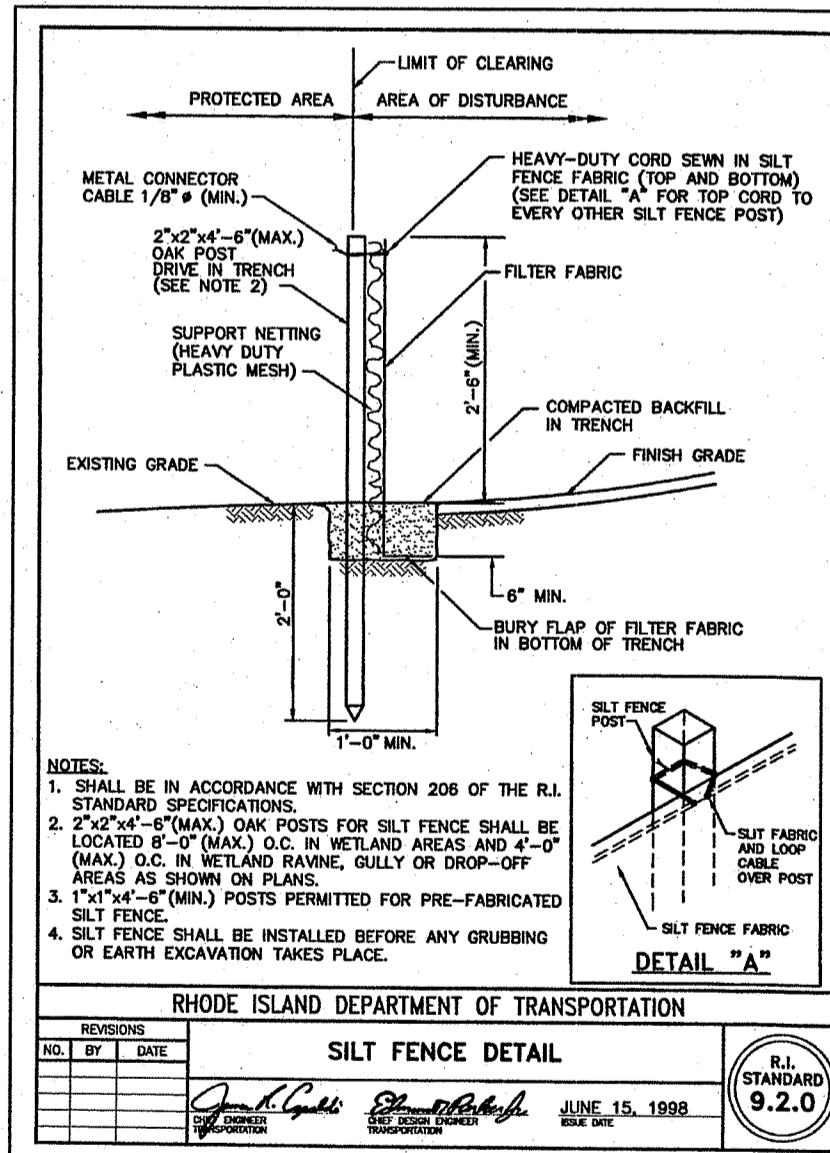
2,966 SF OF DRAINAGE AREA IN SILTY SOILS REQUIRES 475 SF OF RAIN GARDEN AT 8" DEEP
[60 (sf/1000 sf) x 2,966 = 660 sf REQ'D]

PROPOSED: 493 SF OF RAIN GARDEN, 8" DEEP (MINIMUM)



RAIN GARDEN DETAILS FOR ROOF RUNOFF
NOT TO SCALE

COMPOST FILTER (SILT) SOCK MAY BE UTILIZED IN PLACE OF SILT FENCING
COMPOST FILTER SOCK SPECIFICATIONS:
COMPOST FILTER SOCK SHALL COMPLY WITH SECTION 206.01.44, 206.02.04, AND 206.03.04 OF THE RI DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED 2013 WITH ALL REVISIONS, AS FOLLOWS:
COMPOST FILTER SOCK MATERIAL SHALL BE IN ACCORDANCE WITH AASHTO DESIGNATION MP 9-06 (2007 OR LATER EDITION). COMPOST MATERIAL SHALL ALSO MEET ALL APPLICABLE FEDERAL AND STATE REGULATIONS. FOR COMPOST FILTER SOCKS 18 INCHES OR LESS IN DIAMETER, WOODEN STAKES SHALL BE 1 INCH BY 1 INCH AT 10 FOOT INTERVALS ON CENTER, AND OF A LENGTH THAT SHALL PROJECT INTO THE SOIL 1 FOOT LEAVING 3 INCHES TO 4 INCHES PROTRUDING ABOVE THE FILTER SOCK.



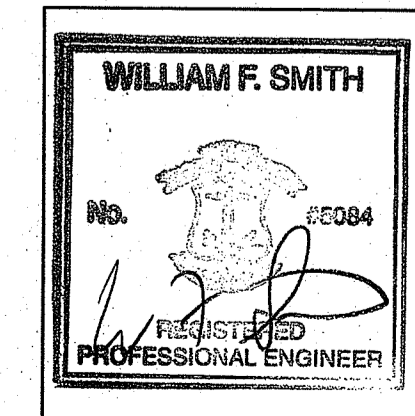
NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS DEPARTMENT OF ENVIRONMENTAL MANAGEMENT - RULES AND REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ONSITE WASTEWATER TREATMENT SYSTEMS AS MOST RECENTLY AMENDED.
- ALL WORK SHALL BE DONE IN A WORKMANLIKE MANNER WITH LINES LAID AS STRAIGHT AS POSSIBLE AND JOINTS MADE WATER TIGHT. ALL WORK TO BE DONE BY AN INSTALLER LICENSED IN THE STATE OF RHODE ISLAND.
- SEPTIC TANK TO BE JOLLEY PRECAST 1500 GALLON TWO COMPARTMENT SEPTIC TANK. TWO SEPTIC TANK COVERS TO BE BROUGHT TO FINISH GRADE. OUTLET FILTER REQUIRED.
- DISTRIBUTION BOX TO BE JOLLEY PRECAST DB-5 (MIN.) D-BOX OR APPROVED EQUALS CONFORMING TO RULE 5. ALL DISTRIBUTION LINES EXTENDING ONE FOOT FROM D-BOX (TO START OF TRENCH) TO BE SOLID SDR35 OR SCH40. A DROP OF 2" IS REQUIRED FROM THE D-BOX TO THE START OF THE TRENCHES. Baffles or Inlet Tee Required in D-Box.
- INSTALLATION OF THE ELJEN IN-DRAIN (GSF) SYSTEM SHALL CONFORM TO THE "GEOTEXTILE SAND FILTER, RHODE ISLAND DESIGN & INSTALLATION MANUAL" AS MOST RECENTLY AMENDED.
- 6" MINIMUM LAYER OF C-33 WASHED SAND REQUIRED UNDER, BETWEEN ROWS, AND AROUND THE PERIMETER. C-33 SAND SHALL HAVE LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE.
- LEACHING AREA EXCAVATION SHALL BE LEVEL AND SCARIFIED. EXCAVATION SHALL BE STRIPPED OF ALL BRUSH, TREES, TOPSOIL, SUBSOIL, AND OTHER UNDESIRABLE MATERIAL AND BACKFILLED WITH CLEAN COARSE SAND, GRAVEL OR STONE, AS DESIGNATED ON THE PLAN. SAND AND GRAVEL TO HAVE A MINIMUM PERCOLATION RATE OF 5 MIN/INCH. MAX STONE SIZE IS 6". LIMIT 10% OF 2" - 6" STONES. NOTE: C-33 SAND (MEETING THE ABOVE SPECIFICATION) MAY BE USED IN PLACE OF THE SAND AND GRAVEL.
- ALL BACKFILL MATERIAL PLACED OVER THE SEPTIC SYSTEM SHALL BE FREE OF LARGE STONES, RUBBISH, OR OTHER DELETERIOUS MATERIALS. HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO RUN OVER THE LEACHING AREA.
- THE SYSTEM IS NOT DESIGNED TO ACCOMMODATE A GARBAGE GRINDER, WATER SOFTENER, OR JACUZZI.
- FOR PROPER OPERATION, THE SEPTIC TANK SHALL BE INSPECTED ANNUALLY AND PUMPED AT NO GREATER THAN 2 YEAR INTERVALS. OUTLET FILTER TO BE INSPECTED AND CLEANED SEMI-ANNUALLY.
- NO PARKING IS PERMITTED IN THE VICINITY OF THE OWTS.
- DIG SAFE NOTIFICATION IS REQUIRED PRIOR TO ANY EXCAVATION.
- CONTRACTOR TO INSTALL 12" MINIMUM COVER OVER THE IN-DRAIN UNITS. CONTRACTOR IS TO INSURE 6" LOAM AND SEED OVER ALL DISTURBED AREAS UNLESS OTHER ARRANGEMENTS HAVE BEEN MADE FOR FINISH LANDSCAPING.
- PROPERTY LINES AS DEPICTED ON THIS PLAN ARE APPROXIMATE ONLY AND ARE NOT BASED ON A BOUNDARY SURVEY.
- CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFETY AND BUILDING CODES ARE FOLLOWED.
- DESIGNER TO BE NOTIFIED 72 HOURS (5 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS TO INSURE THAT DESIGNER IS NOTIFIED 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTION SO PROPER NOTIFICATION TO RIDEM CAN BE MADE. FAILURE TO PROVIDE ADVANCE NOTICE WILL RESULT IN DELAYS TO THE CONTRACTOR. WORK SHALL NOT CONTINUE UNTIL THE PREVIOUS STAGE IS APPROVED.

***NOTIFY DESIGNER OF ANY DISCREPANCIES PRIOR TO ANY WORK.
SITE IS SERVICED BY PRIVATE WELL.
NO OBSERVED EXISTING (OR KNOWN PROPOSED) WELLS WITHIN 200' OF PROPOSED OWTS.
NO OBSERVED EXISTING (OR KNOWN PROPOSED) PUBLIC WELLS WITHIN 500' OF PROPOSED OWTS.
NO UPGRADIENT DRAINS ALLOWED WITHIN 25' OF PROPOSED OWTS UNLESS RULE 6.23 B (7), (8), AND/OR (9) IS COMPLIED WITH.
NO DOWNGRADE DRAINS ALLOWED WITHIN 50' OF PROPOSED OWTS UNLESS RULE 6.23 B (7), (8), AND/OR (9) IS COMPLIED WITH.
BRING SEPTIC TANK COVERS TO GRADE. COVERS TO BE AS SPECIFIED ON ADJACENT DETAILS.
BRING SEPTIC TANK COVERS TO GRADE. COVERS TO BE AS SPECIFIED ON ADJACENT DETAILS.
ALL OWTS PIPE TO BE 4" DIAMETER, SDR35 (MIN) PVC PERFORATED OR SOLID AS REQUIRED.
BUILDING SEWERS TO BE 4" SCH40 PVC WITH GLUED, WATER TIGHT JOINTS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 3/4/2021 FILE # 21-0004
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy Freeman

EXISTING DWELLING SIZE IS UNCHANGED FROM ORIGINAL BUILDING PERMIT AND IS LOCATED AS SHOWN HEREON. BREEZEWAY AND GARAGE ARE PROPOSED TO BE ADDED.



REVISIONS:
#3: 02/05/20: ADD PERVIOUS DRIVEWAY DETAIL.
#2: 10/28/20: NO REVISIONS THIS SHEET
#1: 08/25/20: PER DPW REVIEW COMMENTS

PROPOSED OWTS NEW CONSTRUCTION PLAN
PREPARED FOR
AWASHONKS REALTY, INC.
PLAT 614 LOT 136
204 SAXONY AVENUE
TIVERTON, RHODE ISLAND

SCALE: NONE DATE: JULY 9, 2020

Civil Engineering Concepts, Inc.
34A MAIN STREET
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SHEET 2 OF 2