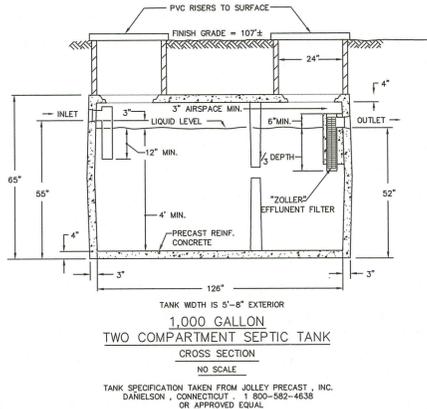


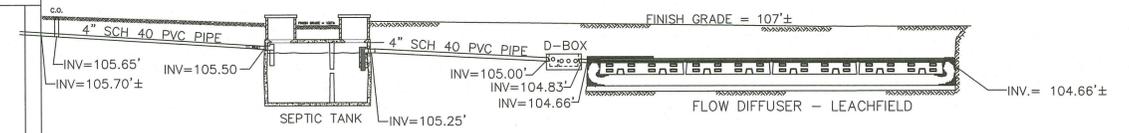


SCHEDULE OF INVERTS		
INVERT No.	LOCATION OF INVERT	INVERT ELEV.
1	BUILDING SEWER	105.70±
2	SEPTIC TANK INLET	105.50
3	SEPTIC TANK OUTLET	105.25
4	DISTRIBUTION BOX - INLET	105.00'
5	DISTRIBUTION BOX - OUTLET	104.83'
6	END LATERAL	104.66'

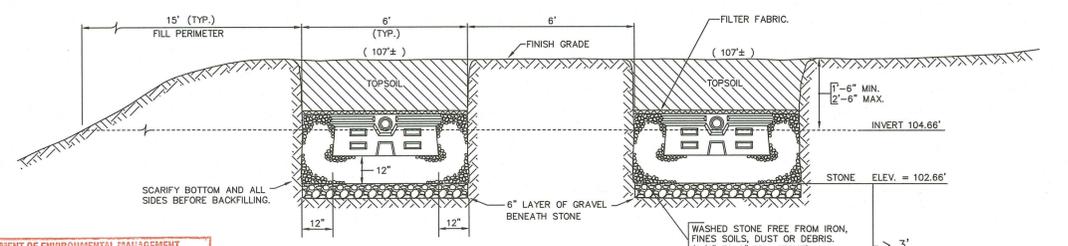
**SYSTEM DESIGN**  
 SOIL CATEGORY 6M  
 LOADING RATE per Table 32.2.2 = 0.70 gals/sqft/day  
 3 BEDROOM DWELLING  
 115 x 3 BEDROOMS = 345 Sq.Ft.  
 345 / 0.70 = 493 Sq. Ft.  
 USING CONCRETE FLOW DIFFUSOR'S WITH 12" OF STONE AROUND ALL UNITS AND 12" UNDER ALL UNITS.  
 EACH END UNIT = 78 Sq.ft.  
 EACH INTERIOR UNIT = 64 Sq.ft.  
 FOUR END UNITS = 312 Sq.Ft.  
 FOUR INTERIOR UNITS = 256 Sq.Ft.  
 HAVING A TOTAL OF 568 Sq.Ft. PROVIDED



LOCATION MAP  
NOT TO SCALE



PROFILE OF SYSTEM  
NO SCALE

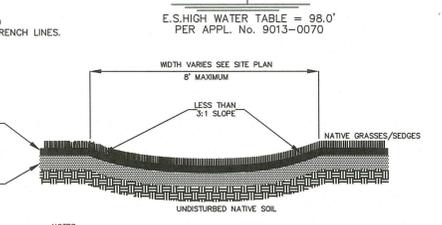


TYPICAL FLOWDIFFUSOR CROSS-SECTION  
NO SCALE

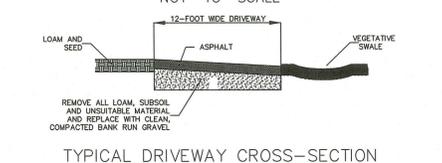
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 DIVISION OF WATER RESOURCES  
 DWTS & FRESHWATER WETLANDS  
 JOINT PERMIT APPROVAL  
 DWTS# 9013-0070 PWW# 21-0160  
 APPROVED: [Signature] DATE: 8/5/21  
 No Changes Allowed Without RIDEM Approval  
 Approved Plans/Permit Must Be Kept at Construction Site

**STORMWATER MANAGEMENT PLAN:**  
 1. THE RUN-OFF FROM THE PROPOSED 12-FOOT GRAVEL DRIVEWAY IS TO BE SHEET (UNCONCENTRATED) FLOW TO PROPOSED VEGETATIVE SWALE #3.  
 2. THE PROPOSED DWELLING ROOF RUN-OFF IS TO BE DIRECTED TO VEGETATIVE SWALE #1.  
 3. THE PROPOSED GARAGE ROOF RUN-OFF SHALL BE DIRECTED TO VEGETATIVE SWALE #2.  
 4. REQUIRED SETBACKS FOR VEGETATIVE SWALES:  
 PRIVATE DRINKING WATER WELLS = 50 FEET  
 ON-SITE WASTEWATER TREATMENT SYSTEMS = 15 FEET  
 BUILDING STRUCTURES = 10 FEET  
 5. ANY CHANGES TO THE PROPOSED DWELLINGS AND DRIVEWAY ARE TO REQUIRE A NEW STORMWATER MANAGEMENT PLAN.

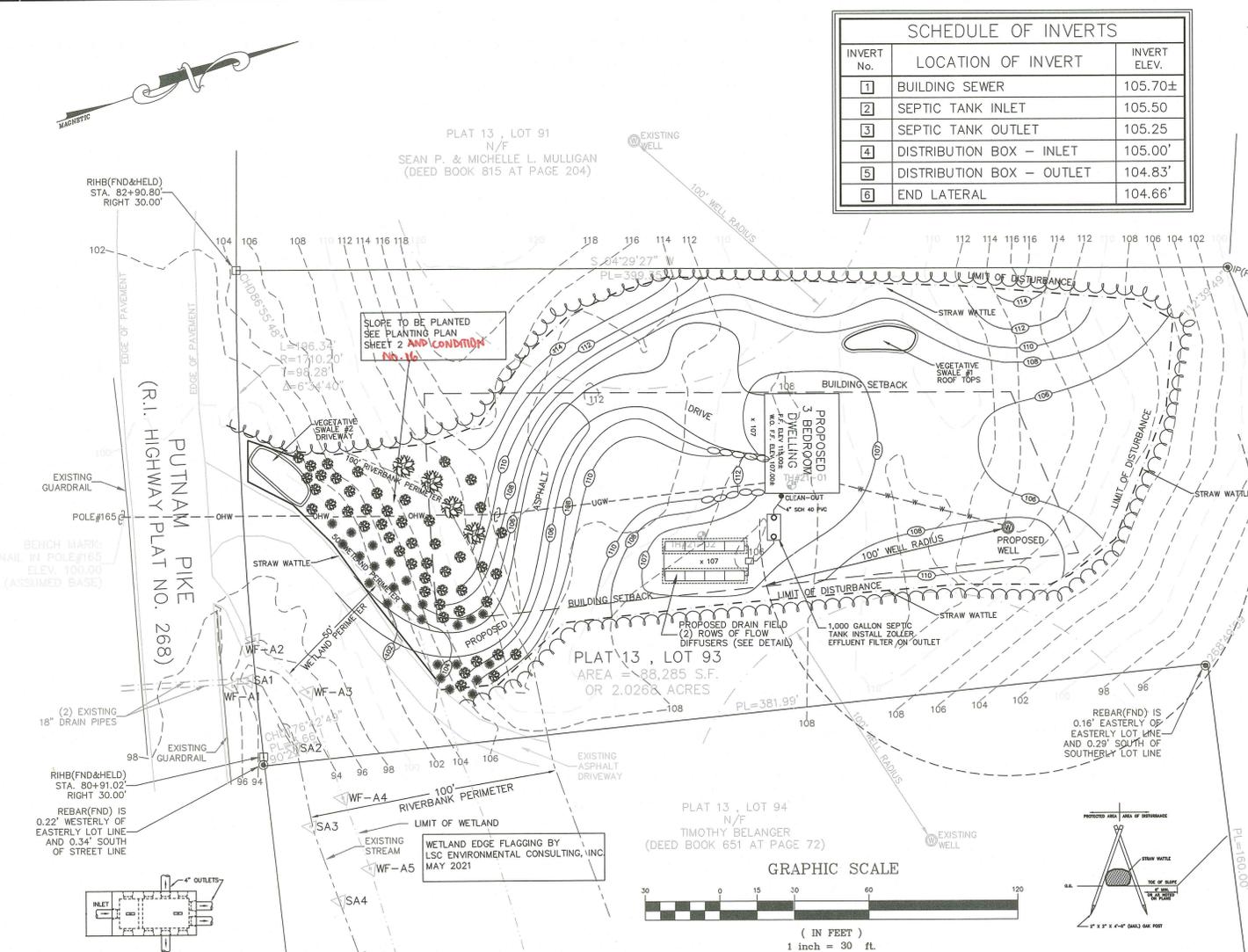
**MAINTENANCE PLAN FOR THE VEGETATIVE SWALES:**  
 1. THE OWNER IS RESPONSIBLE TO INSURE THAT THE STORMWATER MEASURES ON SITE ARE MAINTAINED PROPERLY AND FUNCTIONING AS DESIGNED.  
 2. THE STORMWATER MEASURES ON-SITE ARE TO BE INSPECTED ON AN ANNUAL BASIS OR AFTER ALL LARGE STORM EVENTS AND REPAIRED AS NEEDED.  
 3. THE INSPECTION OF THE STORMWATER MEASURES WILL INCLUDE:  
 \* BUILDING GUTTERS AND DOWN SPOUTS  
 \* ERODED SLOPES AND BOTTOMS  
 \* ACCUMULATED SEDIMENT  
 \* ANY OTHER ITEMS THAT DO NOT ALLOW THE STORMWATER SYSTEMS TO OPERATE PROPERLY.  
 4. THE STORMWATER MEASURES ARE TO BE REPAIRED IF THE FOLLOWING IS ENCOUNTERED DURING THE INSPECTION PROCESS:  
 \* CLOGGED GUTTERS AND/OR DOWN SPOUTS ARE TO BE CLEANED.  
 \* IF THE SURFACE OF THE SWALE BECOMES CLOGGED TO THE POINT THAT STANDING WATER IS OBSERVED ON THE SURFACE 48 HOURS AFTER PRECIPITATION EVENTS, THE BOTTOM SHALL BE ROTO-TILLED OR CULTIVATED TO BREAK UP ANY HARD-PAKED SEDIMENT, AND THEN RESEED.  
 \* ALL OTHER ISSUES THAT WILL NOT ALLOW THE STORMWATER SYSTEMS TO OPERATE PROPERLY ARE TO BE REPAIRED AS NEEDED.  
 5. GENERALLY, VEGETATIVE SWALES SHALL BE MOWED AS REQUIRED TO MAINTAIN MINIMUM GRASS HEIGHTS IN THE 4-8 INCH RANGE.  
 \* EVERY FIVE YEARS, THE CHANNEL BOTTOM OF DRY SWALES SHOULD BE SCRAPED TO REMOVE SEDIMENT AND TO RESTORE ORIGINAL CROSS SECTION AND INFILTRATION RATE, AND SHOULD BE SEED TO RESTORE GROUND COVER, WHERE NECESSARY.



VEGETATIVE SWALE  
TYPICAL CROSS SECTION  
NOT TO SCALE



TYPICAL DRIVEWAY CROSS-SECTION  
NOT TO SCALE



**SOIL DATA**  
 Test Hole "16-01"  
 Grade @ T.H. = 108'  
 0' - 6" - (A) - 10YR 3/6 FINE SANDY LOAM (granular, very friable)  
 6" - 16" (BW1) - 10YR 4/6, SANDY LOAM (subangular blocky, very friable)  
 16" - 26" (BW2) - 10YR 5/6, GRAVELLY LOAMY SAND (subangular blocky, friable)  
 26" - 120" - (C) - 2.5" Y 5/4 GRAVELLY LOAMY SAND (massive, friable)  
 COBBLES

**SOIL DATA**  
 Test Hole "16-02"  
 Grade @ T.H. = 101'  
 0' - 8" - (A) - 10YR 3/6 FINE SANDY LOAM (granular, very friable)  
 10" - 20" (BW1) - 10YR 4/6, SANDY LOAM (subangular blocky, very friable)  
 20" - 32" (BW2) - 10YR 5/6, COARSE LOAMY SAND (subangular blocky, friable)  
 32" - 120" - (C) - 2.5" Y 5/4 GRAVELLY LOAMY SAND (massive, friable)  
 COBBLES

March 25, 2021 By: Susan Capasso Lic.# D4028 Appl.# 9013-0070  
 ESTIMATED SEASONAL HIGH WATER TABLE 10' FROM ORIGINAL GRADE

- NOTES:**
- ALL OTHER DESIGN, CONSTRUCTION AND MAINTENANCE REQUIREMENTS WHETHER NOTED HEREON, OR NOT, SHALL BE IN CONFORMANCE WITH RULES & REGULATIONS ESTABLISHING MINIMUM STANDARDS RELATING TO LOCATION, DESIGN, CONSTRUCTION AND MAINTENANCE OF ON-SITE WASTEWATER TREATMENT SYSTEMS, DATED: NOVEMBER 25, 2018
  - A 1,000 GALLON TWO COMPARTMENT SEPTIC TANK IS REQUIRED, AND A CONCRETE DISTRIBUTION BOX IS REQUIRED AND MUST BE CAPABLE OF WITHSTANDING H-20 WHEEL LOADS.
  - ALL SEWER PIPES A GRAVITY AND SHALL BE 4" DIAMETER, SCH 40 FROM HOUSE TO TANK AND TANK TO D-BOX. ALL OTHER PIPING SHALL BE SDSS UNLESS NOTED OTHERWISE.
  - THE SEPTIC TANK SHALL HAVE TWO WATER TIGHT MANHOLES BROUGHT TO GRADE.
  - A SEPTIC EFFLUENT FILTER IS REQUIRED AND SHALL BE PLACED IN THE SEPTIC TANK OUTLET TEE.
  - PROPOSED LEACHFIELD SYSTEM IS DESIGNED USING 8 CONCRETE FLOW DIFFUSERS. ALL UNITS SHALL HAVE 12" OF STONE AROUND ALL SIDES AND 12" UNDER ALL UNITS. THE LEACHFIELD AREA SHALL BE STRIPPED OF TOPSOIL AND SANDY LOAM LAYER TO A DEPTH OF 26"-30" AND BACKFILL WITH GRAVEL THAT MEETS THE REQUIREMENTS OF R.C. 32.12
  - THE OWNER SHALL BE AWARE THAT SEPTIC SYSTEMS REQUIRE MAINTENANCE AND IT IS RECOMMENDED THAT A SYSTEM INSPECTION BE PERFORMED AT LEAST EVERY THREE YEARS TO ASSESS THE OPERATION AND INTEGRITY OF THE SYSTEM AND TO DETERMINE A SEPTIC PUMPING SCHEDULE.
  - THE SEPTIC TANK EFFLUENT FILTER SHOULD BE CLEANED ANNUALLY BY THE HOME OWNER OR A SEPTIC INSPECTOR CONTRACTOR.
  - THE PROPOSED STRUCTURE AS SHOWN IS A THREE BEDROOM DWELLING WITH A WALK-OUT FOUNDATION
  - DEM REQUIRED CLEARING OF ALL TREES AND STUMPS WITHIN 10' OF SYSTEM.
  - THERE SHALL BE NO SUBSURFACE, FOUNDATION OR STORM DRAINS WITHIN 25' OF THE SYSTEM. BUILDING SEWER BETWEEN THE FOUNDATION AND TANK MUST BE SLEEVED ACROSS THE FOUNDATION DRAM.
  - UNLESS SHOWN THERE ARE NO KNOWN DRAINS WITHIN 200' OF THE PROPOSED LEACH FIELD.
  - PROPOSED WELL AREA AS SHOWN IS AT LEAST 50' OFF THE EDGE OF PAVEMENT. PROPOSED SERVICE LINE MUST MAINTAIN A MINIMUM OF 25' FROM PROPOSED SYSTEM.
  - THERE ARE NO EXISTING OR PROPOSED PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED O.W.T.S. EXCEPT AS SHOWN ON THIS SITE PLAN.
  - THERE ARE NO KNOWN PUBLIC DRINKING WELLS WITHIN 500' OF PROPOSED ISDS.
  - THE CONTRACTOR MUST FOLLOW ALL ITEMS CIRCLED IN THE LOWER RIGHT HAND AREA OF THE ISDS APPLICATION LABELS—IMPORTANT AND NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
  - THE CONTRACTOR MUST NOTIFY LICENSED DESIGNER 48 HOURS PRIOR TO START OF CONSTRUCTION WITH VALID INSTALLERS LICENSE NUMBER. DESIGNER MUST NOTIFY DEM 24 HOURS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH SD 27.00 (g).
  - IF CONTRACTOR ENCOUNTERS UNANTICIPATED CONDITIONS DURING CONSTRUCTION WHICH INDICATED THAT THE SYSTEM CANNOT BE INSTALLED IN ACCORDANCE WITH THE APPROVED DESIGN, INSTALLER SHALL STOP CONSTRUCTION AND NOTIFY THE LICENSED DESIGNER RESPONSIBLE FOR WITNESSING AND INSPECTING THE INSTALLATION IN ACCORDANCE WITH SD 27.00 (c).
  - THE LICENSED DESIGNER SHALL WITNESS AND INSPECT ALL ASPECTS OF THE INSTALLATION, KEEP RECORDS, AND PREPARE THE CERTIFICATE OF COMPLETION.
  - THE DESIGNER IS NOT RESPONSIBLE FOR ANY NEGLIGENT ACT OF OMISSION OF A USER OF AN OWTS, INCLUDING BUT NOT LIMITED TO, FAILURE TO PROPERLY USE AND MAINTAIN THE SYSTEM, WHICH CAUSES DAMAGE TO THE ISDS.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO NOTIFY ENGINEER DURING THE DIFFERENT STAGES OF CONSTRUCTION TO ALLOW THE ENGINEER TO OBSERVE COMPLIANCE WITH THE APPROVED PLANS (AS REQUIRED BY DEM).
  - THE CONTRACTOR SHALL PROVIDE DESIGNER WITH MATERIAL RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLAN ON-SITE AT ALL TIMES.
  - LOT AREA : 2.03 AC.
  - PROPERTY LINE DATA WAS OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS PLAN FOR CRAIG SHEA" PREPARED BY DARVEAU ASSOCIATES DATED APRIL 13, 2021
  - WETLANDS DETERMINED BY USA S. CALEDONIA, LSC ENVIRONMENTAL CONSULTING INC. MAY 2021
  - SYSTEM ELEVATION OF 104.66' MUST BE MAINTAINED FOR 10' AROUND THE SEPTIC SYSTEM.

DESIGNERS LIC. D2104  
 MICHAEL C. GRAY  
 PROFESSIONAL ENGINEER  
 CIVIL  
 [Signature]  
 SCALE: AS SHOWN

TITLE: *PROPOSED SITE PLAN*  
 PROJECT: CRAIG SHEA  
 A.P. 13, LOT 93  
 PUTNAM PIKE  
 GLOCESTER, R.I.  
 MICHAEL C. GRAY, PE  
 146 DOUGLAS HOOK ROAD  
 CHEPACHET, RI 02814

PROJ. NO: 21-6  
 DATE: MAY 2021  
 REV: JULY 2021  
 1/2