

**LEACH BED NOTES:**

350' ADVANCED ENVIRO-SEPTIC leach pipe as supplied by Water Industries, Inc., Alton, NH. or equal.

7 rows (x50') of ADVANCED ENVIRO-SEPTIC pipe. Provided square feet is 500.'

ADVANCED ENVIRO-SEPTIC lines to be laid level.

Flow diffusers to be installed in 'D' boxes.

Installation to be in accordance with ADVANCED ENVIRO-SEPTIC, "New Hampshire Design and Installation Manual", dated JUNE 2019.

**LOT LOADING CALCULATION**

LOT SIZE: 70,567 SQ.FT.  
 DEDUCT AREA IN WELL RADIUS: 15,097 "  
 " WETLAND AREAS: 0 "  
 " SLOPES OVER 35%: 0 "

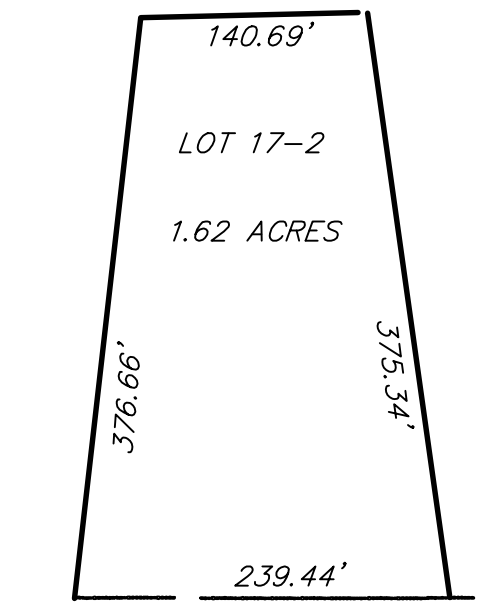
LAND BUILDABLE: 55,470 SQ.FT. = 1.27 ACRE  
 SOIL = GROUP 3, SLOPE = 0-8%  
 MAXIMUM SEPTIC LOADING ALLOWED/ACRE = 1,250 GPD  
 1.27 ACRE X 1,250 GAL/DAY/ACRE = 1,587 GPD ALLOWED

**DESIGN FLOW:**

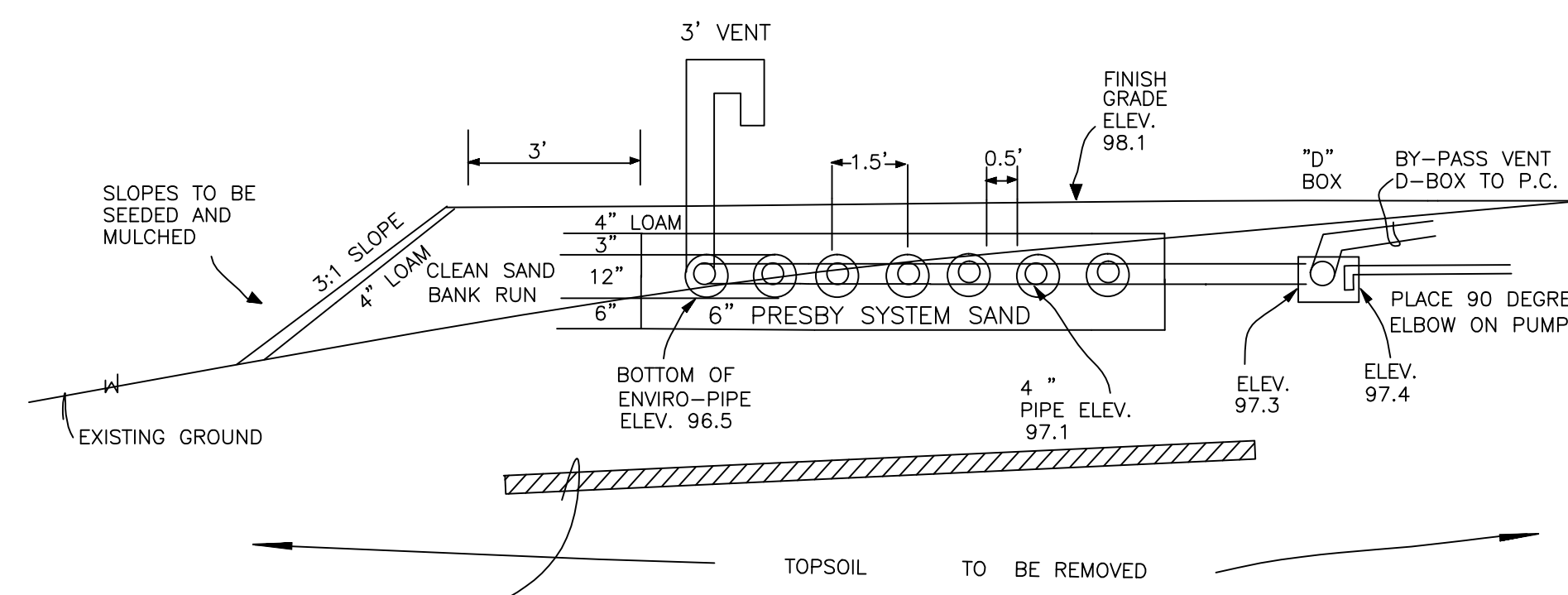
EXISTING 3 BEDROOM HOUSE = 450 GPD  
 PROPOSED 2 BEDROOM ADU = 300 GPD

TOTAL USE = 750 GPD

Presby Environmental System Sand Specifications		
System Sand contains...	PEI Specs % (by weight)	Sieve #
GRAVEL (up to 3/4 in.)	0-35%	Passes 3/4 in. Retained #10
SAND (coarse & very coarse)	40-90% (the more, the better)	Passes #10 Retained #35
FINES (silt/clay)	No more than 3% (CRITICAL)	Passes #200

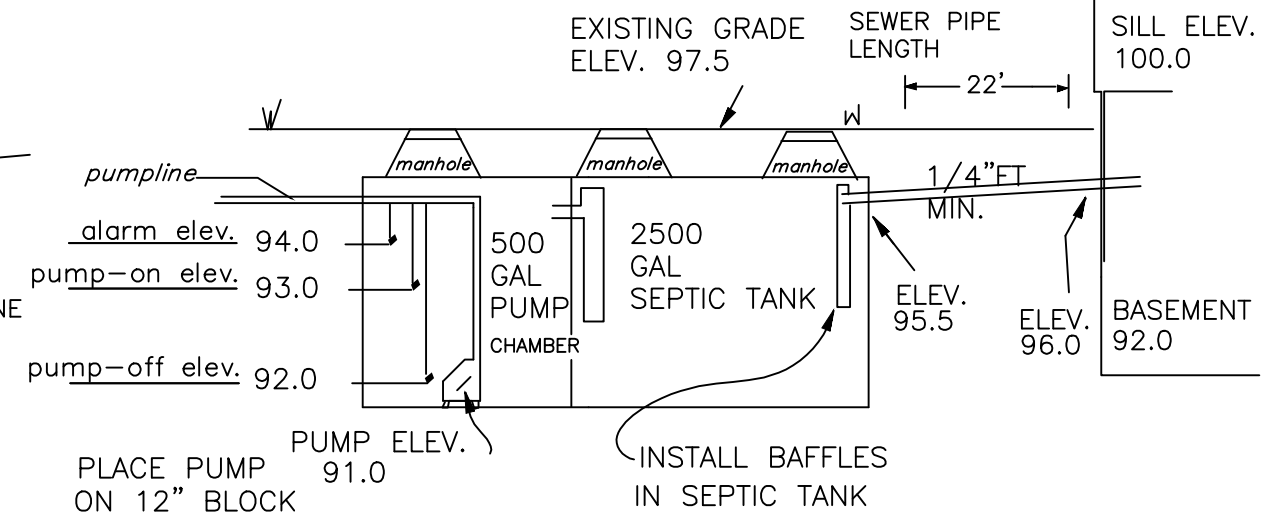


SECOND CROWN POINT ROAD  
**PLOT PLAN**  
 JOHN AND DORIS RILEY SUBDIVISION  
 1998  
 SA1998000701



**ELEVATION PROFILE**

OLD EDA TO BE REMOVED APPROX. 24-30" BELOW EXISTING GRADE



**SEPTIC TANK/ PUMP CHAMBER DETAIL**

**PUMP NOTES:**

Sewer pump to be MYERS ME3H (20.0 gpm minimum at 7.8' total dynamic head) or equal.  
 Pumpline to be 1 1/2" black plastic, PVC 125 psi minimum, pipe.  
 Pumpline to have checkvalve and union at pump chamber.  
 Set pump on-off float switches to be 12" apart.  
 Float switches to be mechanical.

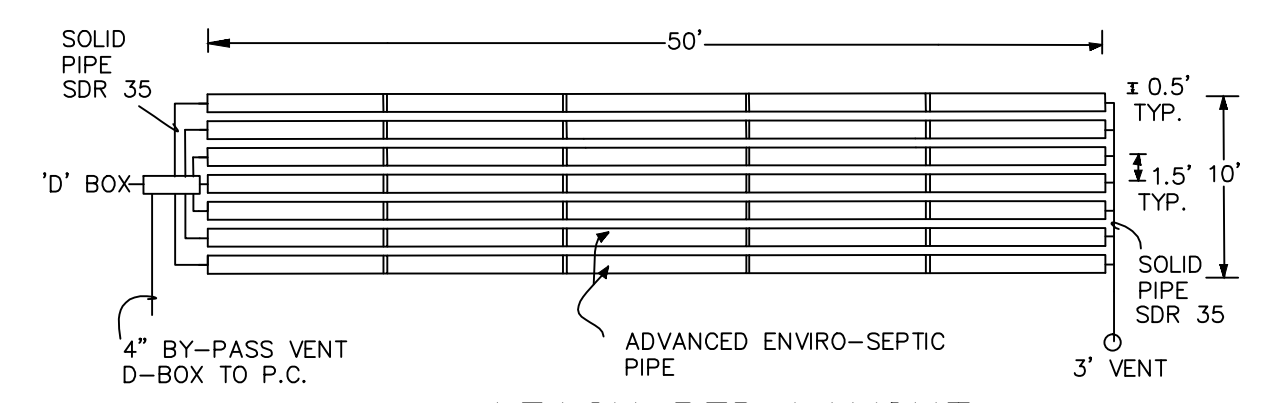
Alarm system to be installed at pump chamber.  
 Pump chamber to have manhole to provide access.  
 Septic tank, Pump chamber and all pipe connections to these to be sealed.  
 Total length of pumpline is 15'.  
 Pipeline to be buried 4' minimum underground or insulated with rigid foam board.  
 Pipeline to be buried 5' minimum under drive and sleeved in a conduit.

**PUMP CALCULATIONS:**

Design flow = 750 gals/day  
 use 100 gals/dose  
 pump chamber capacity = 500 gal  
 100/500 x 62" pump chamber height = 12"  
 Set floats 12" apart.  
**HEAD:**  
 STATIC = 6.4'  
 DYNAMIC = 0.4'  
 FITTINGS = 1.0'  
**TOTAL = 7.8'**

**TEST PIT DATA:**

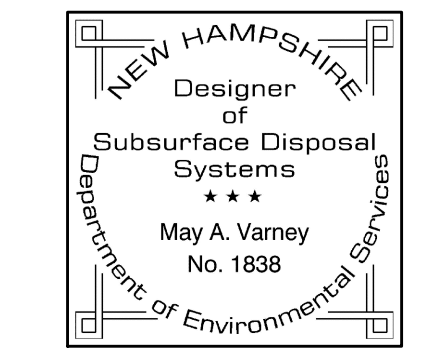
TEST PIT 2/12/24  
 SEASONAL HIGH 42"  
 WATER TABLE  
 PERCOLATION RATE 1" / 10 MIN. 2/12/24  
 SOIL TYPE: HcB Hollis-Charlton  
 Web Soil Survey  
<http://websoilsurvey.nrcs.usda.gov/Accessed February 12, 2024>



**LEACH BED LAYOUT**

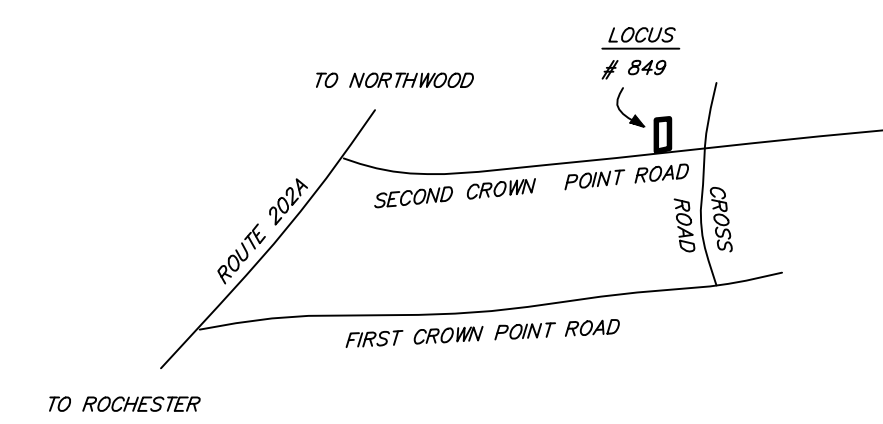
**GENERAL NOTES:**

Septic tank/pump chamber to be 2500/500 gal precast concrete from A.J. Foss or equal.  
 Septic tank to be coated with a sealant to prevent infiltration/exfiltration (if located less than 75' to the well).  
 10 outlet distribution box from A.J. Foss or equal.  
 4" SDR 26 PVC from house to septic tank (less than 75' to well).  
 4" SDR 35 effluent pipe from septic tank to d-box.  
 4" SDR 35 effluent pipe from d-box to leach lines.  
 Topsoil to be removed under leach bed and fill area exiting from the septic tank shall be sealed with a watertight, flexible joint connector.  
 Alternate leach bed same as proposed.  
 Design intent: There are approx. 1.0 FOOT BELOW original ground on the high contour of the designed effluent disposal area.  
 The bottom of the effluent disposal area shall be constructed at elevation 96.5  
 NHDES Subdivision Approval # SA1998000701 (John & Doris Riley)  
 This plan is to add a 2 bedroom ADU in the existing garage.  
 Existing septic tank to be pumped out and removed.  
 Existing leach bed to be removed.  
 There are no wetlands within 75' of proposed septic system, per Env-Wq 1014.06  
 There are no cemeteries within 100' of the septic system.  
 Deed book 4620 page 0362



**DESIGNER:**  
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 Alton, N.H. 03809  
 603-875-7110

**OWNER:**  
 Jeffrey & Emily Thornton  
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 Strafford, NH 03884  
 603-973-7548



**LOCATION MAP**

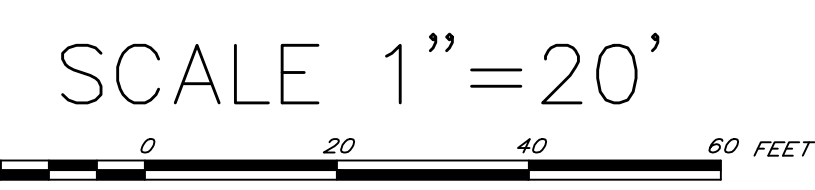
**SEPTIC SYSTEM DESIGN**

LAND OF  
**JEFFREY THORNTON**  
 TAX MAP 19, LOT 17-2  
 849 SECOND CROWN POINT ROAD  
**STRAFFORD, NH**



FEBRUARY 22, 2024 FEBRUARY 14, 2024

**REVIEWED AND APPROVED**  
 IN ACCORDANCE WITH THE  
 REQUIREMENTS OF THE  
 NH DEPT OF ENVIRONMENTAL SERVICES  
 WATER DIVISION  
 Date: 2/22/2024  
 #eCA2024022208



THIS IS NOT A SURVEY PLAN DONE BY A LICENSED LAND SURVEYOR