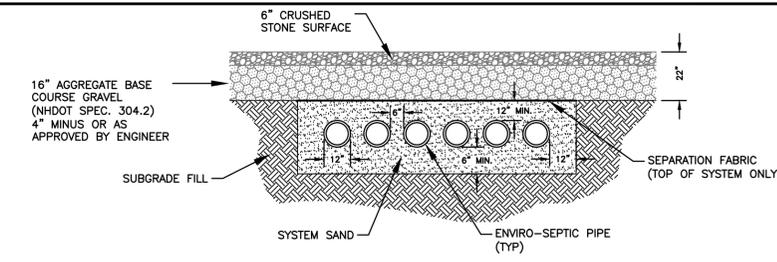


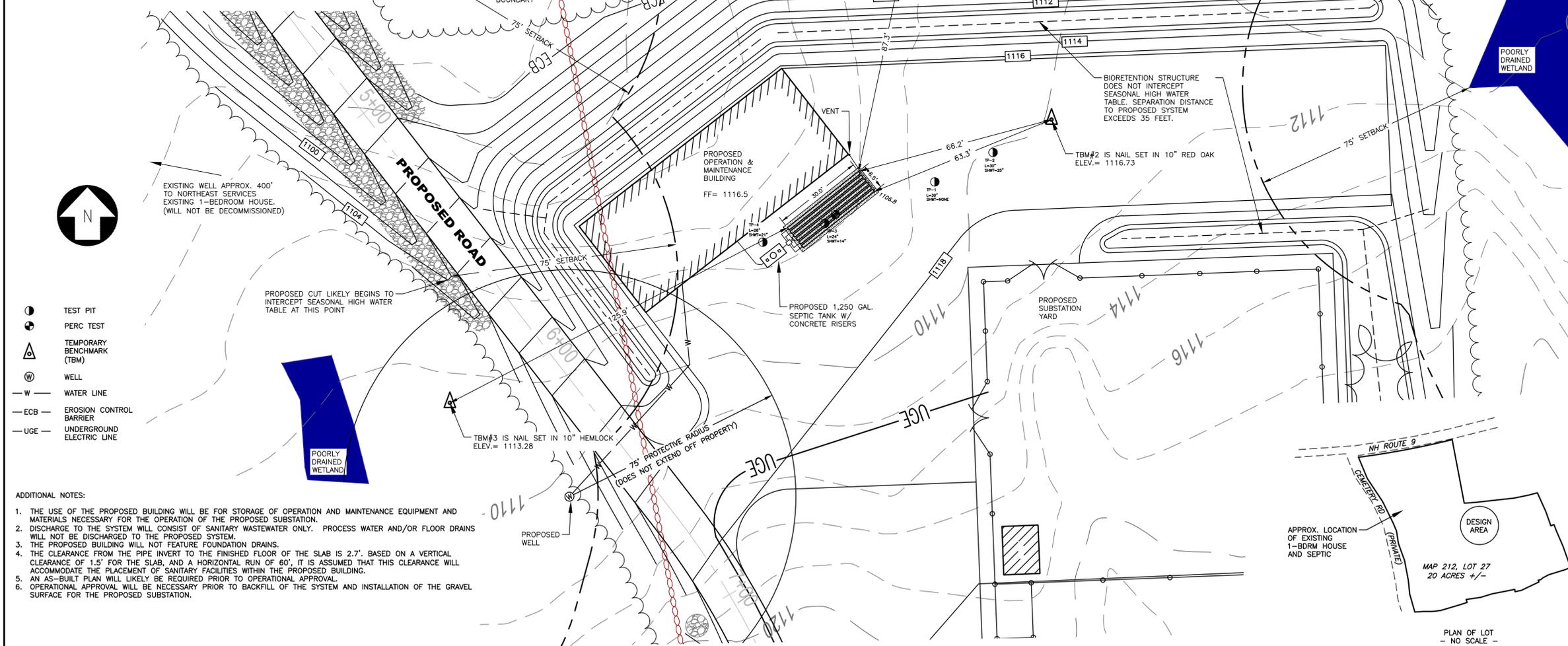
D-1 TYPICAL PROFILE OF PROPOSED SYSTEM
TRC NOT TO SCALE 1/11/2012



- NOTES:**
- THE DESIGN PROPOSES 6 ROWS OF ENVIRO-SEPTIC PIPES.
 - EACH LINE IS TO BE LAID LEVEL.
 - CENTER-TO-CENTER SPACING FOR ALL PIPES SHALL BE 18 INCHES.
 - A MINIMUM OF 6 INCHES OF SYSTEM SAND SHALL BE PLACED BELOW THE BOTTOM OF THE ENVIRO-SEPTIC PIPES.
 - SYSTEM SAND SHALL CONSIST OF MEDIUM TO COARSE SAND MEETING THE REQUIREMENTS OF THE ASTM C-33 SPECIFICATION, OR MATERIALS WITH AN EFFECTIVE SIZE OF 0.25 TO 2 MM, WITH NO GREATER THAN 2% PASSING THE NO. 200 SIEVE, AND NO PARTICLES LARGER THAN 3/4-INCH.
 - A TRACKED VEHICLE MAY BE USED TO SPREAD MATERIAL ON TOP OF THE SYSTEM AS LONG IT MAINTAINS 12 INCHES OF COVER OVER THE PIPES. FINAL COVER THICKNESS SHALL EXCEED 18 INCHES.
 - SEPARATION FABRIC SHALL BE PLACED ON THE TOP OF THE BED ONLY.
 - SOIL COMPACTION SHALL BE MINIMIZED BELOW THE BED.

D-2 TYPICAL CROSS SECTION
TRC NOT TO SCALE 1/11/2012

- NOTES:**
- INLET AND OUTLET TO SEPTIC TANK ARE TO BE SEALED WITH A NON-SHRINK MORTAR.
 - ALL INVERT ELEVATIONS AND GRADES ARE FROM ASSUMED DATUM.
 - SEPTIC TANK AND DISTRIBUTION BOX ARE TO BE SUPPLIED BY LAMARRE CONCRETE CORP., GREENVILLE, NH OR EQUAL.
 - SEPTIC TANK SIZE DOES NOT ANTICIPATE USE OF A GARBAGE GRINDER. IF A GARBAGE GRINDER IS INSTALLED, THE SEPTIC TANK SIZE SHALL BE INCREASED BY 50%.
 - ACCESS TO THE INTERIOR OF THE SEPTIC TANK SHALL CONFORM TO Env-Wq 1010.05.
 - INLET AND OUTLET BAFFLE ARE TO BE PLASTIC VENTED TEES THAT EXTEND ABOVE THE LIQUID LINE TO NOT LESS THAN 1 INCH FROM THE INTERIOR OF THE TOP OF THE SEPTIC TANK.
 - THE INLET BAFFLE SHALL DIVERT SEWAGE DOWNWARD AND EXTEND 8 INCHES BELOW THE LIQUID LEVEL. THE OUTLET BAFFLE SHALL EXTEND BELOW THE LIQUID LEVEL BY 40% OF THE LIQUID DEPTH.
 - SEPTIC TANK IS TO BE PUMPED AND CLEANED A MINIMUM OF EVERY THREE YEARS.
 - ENVIRO-SEPTIC PRODUCTS ARE TO BE SUPPLIED BY PRESBY ENVIRONMENTAL: 1-800-473-5298, WWW.PRESBYECO.COM
 - ALL TREES, TOPSOIL, ROOTS, AND ORGANIC MATTER SHALL BE REMOVED FROM THE SYSTEM AREA.
 - THIS SYSTEM IS NOT DESIGNED FOR DISCHARGES FROM WATER PURIFICATION SYSTEMS OR FLOOR DRAINS.
 - NO KNOWN BURIAL SITES OR CEMETERIES EXIST WITHIN 100 FEET OF ANY COMPONENT OF THE SYSTEM.



- TEST PIT
- ⊙ PERC TEST
- ▲ TEMPORARY BENCHMARK (TBM)
- ⊕ WELL
- W — WATER LINE
- ECB — EROSION CONTROL BARRIER
- UGE — UNDERGROUND ELECTRIC LINE

- ADDITIONAL NOTES:**
- THE USE OF THE PROPOSED BUILDING WILL BE FOR STORAGE OF OPERATION AND MAINTENANCE EQUIPMENT AND MATERIALS NECESSARY FOR THE OPERATION OF THE PROPOSED SUBSTATION.
 - DISCHARGE TO THE SYSTEM WILL CONSIST OF SANITARY WASTEWATER ONLY. PROCESS WATER AND/OR FLOOR DRAINS WILL NOT BE DISCHARGED TO THE PROPOSED SYSTEM.
 - THE PROPOSED BUILDING WILL NOT FEATURE FOUNDATION DRAINS.
 - THE CLEARANCE FROM THE PIPE INVERT TO THE FINISHED FLOOR OF THE SLAB IS 2.7'. BASED ON A VERTICAL CLEARANCE OF 1.5' FOR THE SLAB AND A HORIZONTAL RUN OF 60', IT IS ASSUMED THAT THIS CLEARANCE WILL ACCOMMODATE THE PLACEMENT OF SANITARY FACILITIES WITHIN THE PROPOSED BUILDING.
 - AN AS-BUILT PLAN WILL BE REQUIRED PRIOR TO OPERATIONAL APPROVAL.
 - OPERATIONAL APPROVAL WILL BE NECESSARY PRIOR TO BACKFILL OF THE SYSTEM AND INSTALLATION OF THE GRAVEL SURFACE FOR THE PROPOSED SUBSTATION.

THIS PLAN HAS BEEN PREPARED FOR SEWAGE DISPOSAL SYSTEM DESIGN PURPOSES ONLY. IT IS NOT A BOUNDARY SURVEY. LOT LINE LOCATION SHOULD BE VERIFIED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES, CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM THIS PLAN FOR ANY PURPOSE OTHER THAN THE CONSTRUCTION OF THE SEWAGE DISPOSAL SYSTEM SHALL BE AT THE USER'S RISK.

ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS ARE APPROVED BY THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES AS AN INNOVATIVE/ALTERNATIVE TECHNOLOGY IN ACCORDANCE WITH Env-Wq 1024. THE PROPOSED SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS:

- "ENVIRO-SEPTIC & SIMPLE SEPTIC LEACHING SYSTEMS DESIGN AND INSTALLATION MANUAL"
- "ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEMS DESIGN AND INSTALLATION MANUAL NEW HAMPSHIRE STATE ATTACHMENT"

WETLAND CERTIFICATION

WETLANDS WERE DELINEATED IN AUGUST AND SEPTEMBER, 2011 IN ACCORDANCE WITH Env-Wq 1014.03 BY ALEXANDER FINAMORE, NEW HAMPSHIRE CERTIFIED WETLAND SCIENTIST, OF TRC ENVIRONMENTAL CORPORATION.

ARTICLE XI OF THE ANTRIM ZONING ORDINANCE STATES: "NO SEPTIC TANK OR LEACH FIELD MAY BE CONSTRUCTED, REPAIRED, OR ENLARGED CLOSER THAN SEVENTY-FIVE (75) FEET TO ANY WETLAND."

THERE ARE NO POORLY OR VERY POORLY DRAINED WETLANDS WITHIN 75 FEET OF THE SEPTIC TANK OR LEACHFIELD. NO PORTION OF MAP 212 LOT 27 IS WITHIN THE PROTECTED SHORELAND.

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NO.	REVISION	DATE	BY	CK	P.E. STAMPED BY	P.E. No.
A	INITIAL SUBMISSION	1/18/12				

CLIENT APPROVAL APPROVED BY _____ COMPANY _____ DATE _____	TRC/DMP DESIGNED TRC/DMP DRAWN TRC/PWM CHECKED APPROVED REVIEWED
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PROPOSED SEPTIC SYSTEM

ANTRIM WIND ENERGY, LLC
ANTRIM WINDPARK
ANTRIM NEW HAMPSHIRE

249 WESTERN AVENUE
AUGUSTA, ME 04330
PROJECT NO: 186317
DATE: 1-18-12

SCALE: 1" = 20'

REV. A

TEST PIT DATA

TP-3 1/16/12

1-0"	ORGANIC MATTER	
0-14"	10YR 3/2 VERY DK. GRAYISH BROWN FINE SANDY LOAM GRANULAR, FRIABLE	
14-24"	2.5Y 6/8 OLIVE YELLOW SANDY LOAM GRANULAR, FRIABLE	7.5YR 4/6 STRONG BROWN COMMON, MEDIUM, & DISTINCT (REDOXIMPORHIC FEATURES)
LEDGE: 24" (BOULDERS)		PERC. TEST: 12 MIN./IN. AT 12" S.H.W.T.: 14" (1/16/12)
HARDPAN: NONE		

TP-4 1/16/12

1-0"	ORGANIC MATTER	
0-10"	10YR 3/2 VERY DK. GRAYISH BROWN FINE SANDY LOAM GRANULAR, FRIABLE	
10-21"	10YR 4/4 DK. YELLOWISH BROWN SANDY LOAM GRANULAR, FRIABLE	
21-28"	2.5Y 6/8 OLIVE YELLOW SANDY LOAM GRANULAR, FRIABLE	10YR 4/6 D. YELLOWISH BROWN COMMON, MEDIUM, & DISTINCT (REDOXIMPORHIC FEATURES)
LEDGE: 28" (BOULDERS)		
HARDPAN: NONE		

SOIL DATA: 160B, TUNBRIDGE-LYMAN MONADNOCK COMPLEX, STONY, 3-8% SLOPES

DESIGN DATA

DESIGN INTENT: THE PROPOSED BUILDING WILL BE USED TO STORE OPERATION AND MAINTENANCE EQUIPMENT FOR THE ANTRIM WIND PARK SUBSTATION. IN ACCORDANCE WITH Env-Wq 1008.03, TABLE 1008-1, THE OCCUPATION AND USE QUALIFIES AS FACTORY WAREHOUSE EXCLUSIVE OF INDUSTRIAL WASTE. UP TO TWO FULL-TIME OCCUPANTS WILL UTILIZE THE BUILDING DURING NORMAL WORKING HOURS ON A WEEKLY BASIS:

20 GPD/PERSON x 2 PERSONS = 40 GALLONS PER DAY

IN ACCORDANCE WITH Env-Wq 1008.02(e), THE SYSTEM IS DESIGNED TO ACCOMMODATE A MINIMUM SEWAGE FLOW OF 300 GALLONS PER DAY.

PROPOSED ARE 6 ROWS OF 30 LINEAR FEET, PROVIDING A TOTAL OF 180 LINEAR FEET OF ENVIRO-SEPTIC PIPES.

DUE TO SHWT AT 14 INCHES, THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT 1112.1 FEET ELEVATION. THIS IS APPROXIMATELY 5.3 FEET ABOVE ORIGINAL GROUND ON THE HIGH CONTOUR OF THE EFFLUENT DISPOSAL AREA.

THE LEACHFIELD WILL MAINTAIN 3 FEET OR GREATER TO THE SEASONAL HIGH WATER TABLE. THE LEACHFIELD IS TO BE REBUILT IN PLACE IF REPLACEMENT BECOMES NECESSARY.

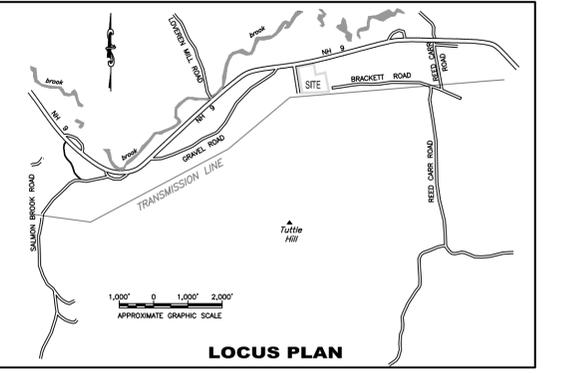
SITE LOADING

AVAILABLE LAND: 19.2 ACRES (20 ACRES LESS TWO PROTECTIVE WELL RADII)

TYPE 3 SOILS AT "A/B" SLOPE: $2,000 \text{ GPD/ACRE} = 1,250 \text{ GPD}$

AVAILABLE LOADING: $1,250 \text{ GPD/ACRE} \times 19.2 \text{ ACRES} = 24,000 \text{ GPD}$

PROPOSED LOADING: $300 \text{ GPD (EXISTING 1 BEDROOM HOUSE)} + 300 \text{ GPD (PROPOSED O&M BUILDING)} = 600 \text{ GPD (TOTAL)}$



MAP 212, LOT 27 ANTRIM, NEW HAMPSHIRE

PROPERTY OWNER: MICHAEL OTT, BK 7685 PG 0864 HCRD
STATE SUBDIVISION APPROVAL NO.: >5 ACRES
PREVIOUS CONSTRUCTION APPROVAL NO.: N/A