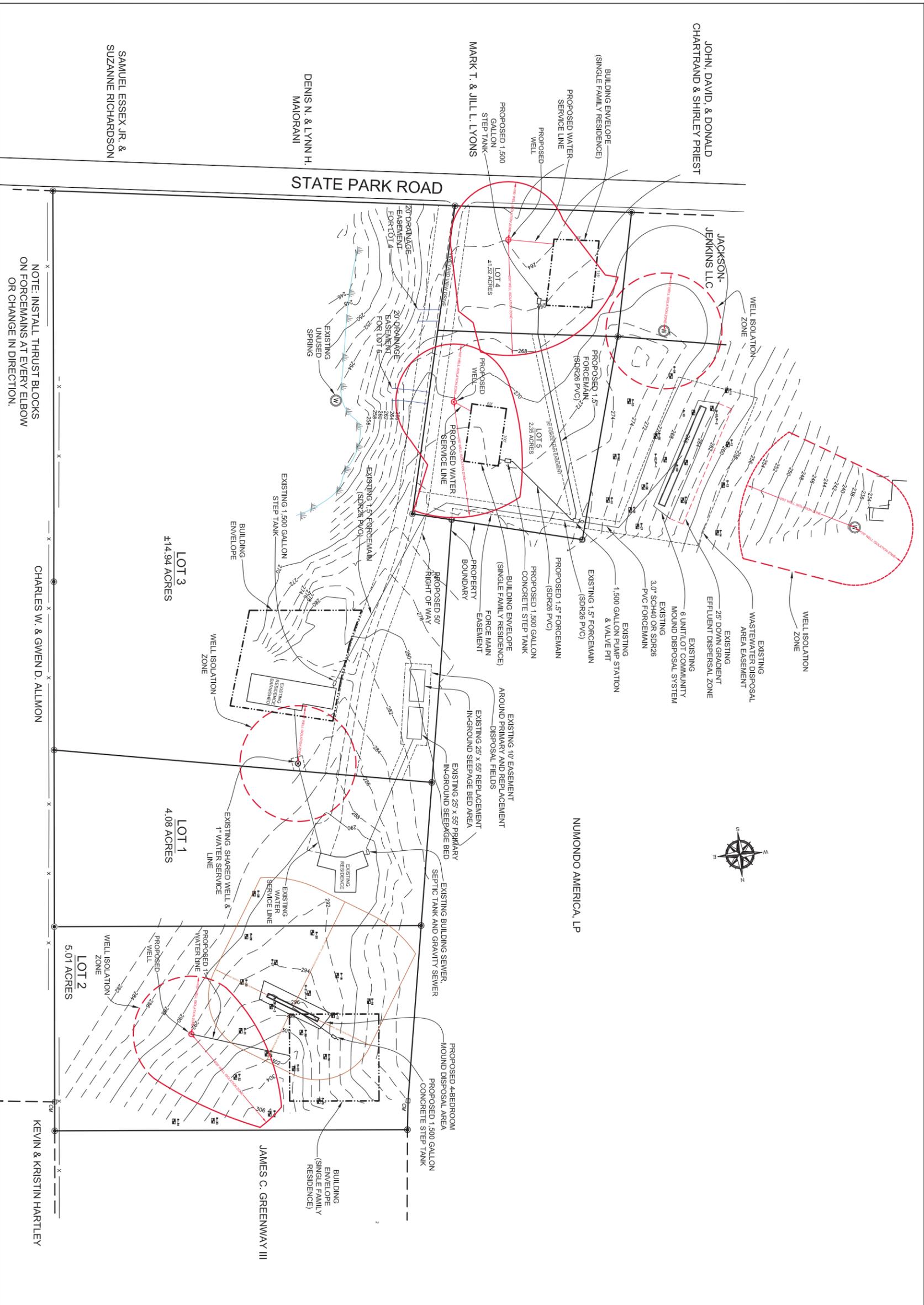


GENERAL LOCATION MAP  
SCALE: 1"=2,000'



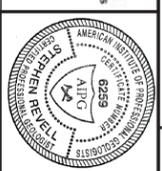
NOTE: INSTALL THRUST BLOCKS ON FORCEMAINS AT EVERY ELBOW OR CHANGE IN DIRECTION.

GRAPHIC SCALE  
(IN FEET)  
1"=80'



No.	REVISION	DATE
4	REPERINED LOTS 2 & 3	5/11/15
3	REPERINED LOTS 4 & 5	5/11/15
2	REMOVED LOT 3A SUBDIVISION LINE	5/11/15
1	CHANGED LOT 2 & 3 BUILDING ENVELOPES	1/26/11

I hereby certify that in the exercise of my reasonable professional judgment the design-related information contained herein was prepared by me or under my direct supervision and that the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules.  
 Stephen Kappel, CPE  
 Licensed Class B Designer #178  
 Date: 6-15-2015



**Couture, Anderson & Smith Properties**  
 Vineyard View Road  
 Charlotte, Vermont  
**Site Redevelopment Plan**  
 of  
**5-Lot Subdivision with**  
**Water and Wastewater Systems**

NO.	REVISION	DATE
1		6/09/11
		6/09/11
		6/09/11
		6/09/11
		6/09/11

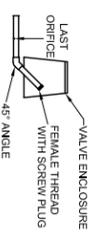
DATE: 6/09/11  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 SCALE: AS SHOWN  
 SHEET NO. 1

LEGEND  
 - - - - - EXISTING GROUND CONTOUR  
 - - - - - EXISTING WATER LINE  
 - - - - - FORCE MAIN EASEMENT  
 - - - - - EDGE OF PAVEMENT  
 - - - - - EDGE OF GRAVEL DRIVE  
 - - - - - EXISTING BUILDING ENVELOPES  
 - - - - - EXISTING PROPERTY LINE  
 - - - - - ISOLATION ZONE  
 - - - - - TEST PATTERNOLOGICAL TEST  
 - - - - - WELL - DRILLED  
 - - - - - PROPOSED WELL - DRILLED

CHARLES W. & GWEN D. ALLMON  
 JAMES C. GREENWAY III  
 JOHN, DAVID, & DONALD CHARTRAND & SHIRLEY PRIEST  
 MARK T. & JILL L. LYONS  
 DENIS N. & LYNN H. MAIORANI  
 SAMUEL ESSEX JR. & SUZANNE RICHARDSON

## CONSTRUCTION SPECIFICATIONS - MOUND

1. MOUND CONSTRUCTION PROCEDURES ARE JUST AS IMPORTANT AS THE MOUND DESIGN. GOOD DESIGN WITH POOR CONSTRUCTION WILL RESULT IN THE MOUND OPERATING POORLY AND MAY RESULT IN FAILURE. PROPER EQUIPMENT IS ESSENTIAL. SMALL TRACK TYPE EXCAVATORS WORK BEST. WHEEL TYPE EXCAVATORS ARE DIFFICULT TO MANEUVER IN THE MOUND. THE MOUND SHOULD BE CONSTRUCTED IN SECTIONS. THE MOUND WHICH HAS BEEN TRENCH AND ROVEN, OTHER TECHNIQUES COULD BE USED AS LONG AS THE BASIC PRINCIPLES OF MOUND DESIGN, OPERATION AND CONSTRUCTION ARE NOT VIOLATED.
2. SUBMIT A REPRESENTATIVE SAMPLE (ENOUGH TO FILL A 5 GALLON BUCKET) OF MOUND SAND FROM THE INTENDED SOURCE FOR TESTING ACCORDING TO ASTM D 2922 (KNOTH) AND VERMONT TESTING CANAL PERFORM THIS TEST). SUBMIT A COPY OF THE RESULTS TO THE DESIGNER PRIOR TO INITIATING CONSTRUCTION.
3. STAKE OUT THE MOUND ON THIS SITE SO THAT THE TRENCHES OR BED RUN PERPENDICULAR TO THE DIRECTION OF THE SLOPE. REFERENCE STAKES ARE RECOMMENDED IN CASE CORNER STAKES ARE DISTURBED. LINCOLN APPLIED GEOLOGY, INC. MUST STAKE OUT ON VERT THIS TASK.
4. STAKE OUT CORNERS OF THE BED AND DETERMINE THE BOTTOM ELEVATION OF THE BED.
5. DETERMINE WHERE THE FORCE MAIN FROM THE PUMP CHAMBER CONNECTS TO THE DISTRIBUTION SYSTEM IN THE MOUND.
6. TRENCH AND LAY THE FORCE MAIN FROM THE PUMP CHAMBER TO THE MOUND. LAY THE PIPE 6" BELOW THE GROUND SURFACE FOR FROST PROTECTION. WHERE THERE IS LESS THAN 9" OF COVER, INSTALL WITH 2" OF RIGID POLYSTYRENE INSULATION 4" WIDE @ EITHER SIDE OF THE PIPE. IN TWO LAYERS WITH STAGGERED JOINTS. CUT AND JOINT THE PIPE PERPENDICULAR TO THE DIRECTION OF FLOW. THE TRENCHES SHOULD BE 12" WIDE AND 18" DEEP. ALWAYS KEEP A MINIMUM OF 6" INCHES OF SAND BETWEEN TRACKS TO PREVENT COMPACTION OF THE NATURAL SOIL.
7. INSTALL THE CURTAIN DRAIN IF SHOWN ON PLANS.
8. CHECK THE MOISTURE CONTENT OF THE SOIL AT 7" - 8" DEEP. IF IT IS TOO WET (SWEAKING SOIL), MOISTURE CAN BE DETERMINED BY ROLLING A SOIL SAMPLE BETWEEN THE HANDS. IF IT ROLLS INTO A RIBBON, THE SITE IS TOO WET TO PREPARE. IF CRUMBLETS, SOIL PREPARATION CAN PROCEED.
9. CUT TREES TO GROUND LEVEL. REMOVE EXCESS VEGETATION BY MOWING. DO NOT REMOVE STUMPS. PREPARE THE SITE BY USING A MOLDBOARD PLOW TO OPEN A 10" CHISEL PLOWING MAY BE USED IF A MOLDBOARD PLOW IS NOT AVAILABLE. NOTOTILLING MUST NOT BE DONE ON HEAVY SOILS BUT CAN BE USED ON NON-STRUCTURAL SOILS SUCH AS SANDS. ALTERNATIVE PLOWING CAN BE DONE BY USING AN ESCALATOR BUCK TO PULL SURFACE MATS TO THE SURFACE. SURFACE MATS CAN BE USED TO PREPARE THE SURFACE. SURFACE MATS MUST LOCK AS THOUGH IT HAD BEEN PLOWED WITH A MOLDBOARD PLOW. AS OUTLINED ABOVE, IMMEDIATE CONSTRUCTION AFTER PLOWING IS NECESSARY. AVOID COMPACTED AREAS WITH VEHICULAR TRAFFIC. DESIGNER INSPECTION REQUIRED AT THIS POINT.
10. EXTEND THE EFFLUENT PIPE TO SEVERAL FEET ABOVE THE GROUND SURFACE.
11. PLACE THE APPROVED FILL MATERIAL AROUND THE EDGE OF THE PLOWED AREA. KEEP WHEELS OF TRACK OFF PLOWED AREAS. MINIMIZE TRAFFIC ON THE DOWN SLOPE SIDE OF THE MOUND. WORK FROM THE END AND UPSLOPE SIDE.
12. MOVE THE FILL MATERIAL INTO PLACE USING A SMALL TRACK TYPE TRACTOR WITH A BARGE. ALWAYS KEEP A MINIMUM OF 6" INCHES OF SAND BETWEEN TRACKS TO PREVENT COMPACTION OF THE NATURAL SOIL.
13. PLACE THE FILL MATERIAL TO THE REQUIRED DEPTH, WHICH IS THE TOP OF THE BENCHES OR BED. SHOVE SLIDES TO THE DESIRED DEPTH. INSPECTION REQUIRED AT THIS POINT.
14. WITH THE BLADE OF THE TRACTOR FROM THE BED OR TRENCHES, HAND LEVEL THE BOTTOM OF THE BED. MAKE SURE BOTTOMS AT THE SAME ELEVATION AND LEVEL.
15. PLACE THE COARSE AGGREGATE IN THE TRENCHES OR BED. IT SHOULD BE ¾ TO 1 ½" WASHED OR BARGE AGGREGATE (I.E. NOT LIMESTONE OR MARBLE). LEVEL AGGREGATE TO THE DESIGN DEPTH.
16. PLACE THE DISTRIBUTION SYSTEM ON THE AGGREGATE. CONNECT THE MAINFOLD TO SLIGHTLY TOWARD DISTRIBUTION LATERALS. LAY LATERALS LEVEL. REMOVE RISERS AND DISPS. PLACE ORIFICES UPWARDS. INSPECTION REQUIRED AT THIS POINT (TO OBSERVE DISCHARGE RATE AND PRESSURE TESTS).
17. PLACE SHIELDS ON ORIFICES AND PROPERLY CEMENT ALL COMPONENTS. PLACE 2" OF AGGREGATE OVER THE DISTRIBUTION PIPE.
18. PLACE A SYNTHETIC NONWOVEN FILTER FABRIC (MIRAFIL HAN OR EQUIVALENT) OVER THE ENTIRE STONE BED. OVERLAP JOINTS BY 12" MINIMUM. PLACE AN 8' X 8' MAT OF RIGID POLYSTYRENE INSULATION, 2" THICK, CENTERED OVER FORCE MAIN RISER. PLACE INSULATION IN TWO LAYERS (1" DOWN) AND STAGGER THE JOINT PATTERNS.
18. PLACE SOIL ON TOP OF THE BED OR TRENCH TO A DEPTH OF 1" IN CENTER AND 6" AT OUTER EDGE OF BED OR TRENCHES. THIS MAY BE A DISPOSAL OR TOPSOIL.
20. PLACE 6" OF GOOD QUALITY TOPSOIL OVER THE ENTIRE MOUND SURFACE. THIS WILL RAISE THE ELEVATION AT THE CENTER OF THE MOUND TO A MINIMUM OF 1.5' AND THE OUTER EDGES OF BED OR TRENCHES 1'. INSPECTION REQUIRED AT THIS POINT.
21. LANDSCAPE THE MOUND BY PLANTING GRASS. USING THE BEST VEGETATION ADAPTABLE TO THE AREA. A MIXTURE OF 50% BIRDSFOOT TREFOIL AND 50% TIMOTHY MAY BE USED. SEEDING AT A RATE OF 100 LBS PER ACRE. SEEDING SHOULD BE COMBINATION OF 60% BLUEGRASS, 30% CREeping RED FESCUE AND 10% ANNUAL RYE GRASS MAY BE THE DESIRED VEGETATIVE COVER. SHRUBS CAN BE PLANTED AROUND THE BASE AND UP THE MOUND. PLANTING SHOULD BE COMPLETED WITHIN 30 DAYS OF MOUND CONSTRUCTION. THE MOUND MAY BE SOMEWHAT MOST DURING VARIOUS TIMES OF THE YEAR. KEEP ALL TREES AND SHRUBS AWAY FROM THE TOP OF THE MOUND. AS ROOT SYSTEMS CAN DESTROY THE DISTRIBUTION NETWORK.
22. MOUND MAINTENANCE INVOLVES PLUMBING THE SEPTIC TANK AND PUMP CHAMBER EVERY 1 TO 2 YEARS TO AVOID OVERFLOW OF SOLIDS INTO THE MOUND. A GOOD WATER OUBERFLOW VALVE SHOULD BE INSTALLED ON THE PUMP CHAMBER. INSPECT PUMP CHAMBER AND OBSERVE FOR EXCESS TRAFFIC ON MOUND AND WHEELS ON MOUND. INSPECT PUMP CHAMBER SHOULD BE AVOIDED TO MINIMIZE FROST PENETRATION. INSPECT PUMP CHAMBER AND SEPTIC TANK EACH YEAR TO DETERMINE THE LEVEL OF SLUDGE ACCUMULATION. MOW THIS YEAR.
23. UTILITIES INFORMATION SHOWN ON THIS PLAN WAS OBTAINED FROM AVAILABLE SOURCES AND MAY NOT BE ENTIRELY ACCURATE OR COMPLETE. THE CONTRACTORS SHOULD VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN ON THIS PLAN, SHOULD BE REPORTED TO THE DESIGNER IMMEDIATELY.
24. ALL FILL AROUND THE STRUCTURES SHALL BE PLACED IN 12" LIFTS AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
25. THIS DESIGN MUST BE INSPECTED BY LINCOLN APPLIED GEOLOGY, INC., LINCOLN, VERMONT, PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM FAILURE TO FOLLOW SPECIFICATIONS, AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED BY THE CONTRACTOR FOR INSPECTIONS.



## FLUSHING VALVE DETAIL

NOT TO SCALE



## ORIFICE SHIELD DETAILS

NOT TO SCALE

## STATE OF VERMONT MOUND SAND SPECIFICATIONS

**Fill Material:** The fill material from the natural soil plowed surface to the top of the trench or bed shall be sand and silt with one of the following sieve analyses:

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.500	85 - 100
40	0.850	25 - 75
60	0.250	0 - 30
100	0.149	0 - 10
200	0.074	0 - 5

Sieve Number	Opening (mm)	Percent Passing, by Weight
4	4.750	85 - 100
10	2.000	85 - 100
16	1.180	50 - 85
30	0.590	25 - 60
50	0.297	10 - 30
100	0.149	2 - 10

The material must meet specifications 1, 2, or 3. Interpolation of analyses is not permitted. **Fill material** 2 is ASTM Specification C-393 and is intended for manufactured material.

ITEM	LEACHFIELD	SEPTIC TANK	SEWER
DRILLED WELL	(0)	50	50
GRAVEL PACK WELL, SHALLOW WELL OR SPRING	(0)	75	75
LAKES, PONDS AND IMPOUNDMENTS	50	25	25
RIVER, STREAM	50	25	10
DRAINAGE SWALES, ROADWAY DITCHES	25	25	10
MAIN OR MUNICIPAL WATER LINES	50	50	(0)
SEWER SERVICE LINES	25	25	(0)
ROADWAYS, DRIVEWAYS, PARKING LOTS	10	5	(0)
TOP OF EMBANKMENT, OR SLOPE > 30%	25	10	-
PROPERTY LINE	25 <sup>1</sup>	10	10
TREES	10	10	10
OTHER DISPOSAL FIELD OR REPLACEMENT AREA	10 <sup>2</sup>	-	-
FOUNDATION, FOOTING DRAINS, CURTAIN DRAINS	35 <sup>3</sup>	10	-
PUBLIC COMMUNITY WATER SUPPLY (a)	(0)	(0)	(0)
PUBLIC COMMUNITY WATER SUPPLY (b)	100	50	50

THESE DISTANCES MAY BE REDUCED WHEN EVIDENT THAT THE DISTANCE IS NECESSARY TO PROTECT AN ITEM OR INCREASED IF NECESSARY TO PROVIDE ADOPTIVE PROTECTION.

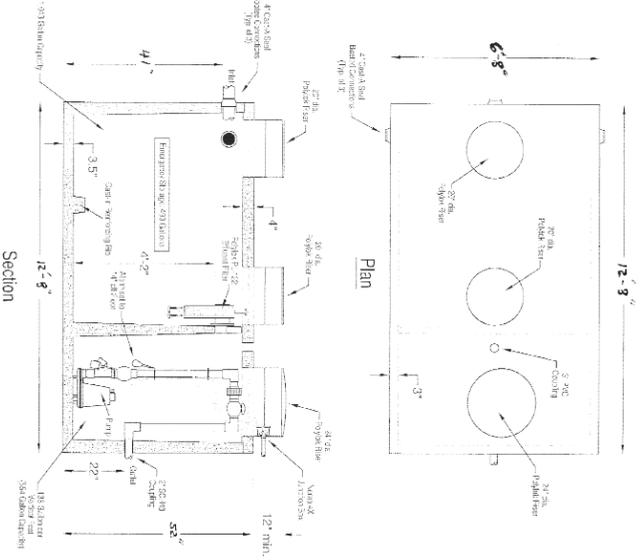
- (a) ISOLATION DISTANCES APPLY REGARDLESS OF PROPERTY LINE AND OWNERSHIP.
- (b) SEPARATION BETWEEN POTABLE WATER SUPPLIES AND LEACHFIELDS SHALL BE DETERMINED BY METHODS IN THE VERMONT WATER AND SUPPLY RULES, CHAPTER 2-14, PART 11, 11.4.
- (c) SEWERS UNDER ROADS, DRIVEWAYS OR PARKING LOTS MAY REQUIRE PROTECTIVE CONDUITS OR SLEEVES.
- (d) SEPARATION OF PRESSURE WATER LINES CONSIDERED AS SERVICE CONNECTIONS AND SEWER LINES CONSIDERED TO BE PART OF A PUBLIC WATER SYSTEM AS DEFINED BY THE VERMONT WATER SUPPLY RULES.
- (e) THIS REFERS TO PUBLIC COMMUNITY WATER SYSTEMS, AS DEFINED IN THE VERMONT WATER SUPPLY RULES.
- (f) CONTACT THE DEPARTMENT OF ENVIRONMENTAL CONSERVATIONS WATER SUPPLY DIVISION, 103 SOUTH MAIN STREET, WATERBURY, VERMONT FOR ISOLATION DISTANCES RELATIVE TO PUBLIC COMMUNITY WATER SUPPLY.

## WASTEWATER SYSTEM ISOLATION DISTANCES

## OPERATION & MAINTENANCE RECOMMENDATIONS

### SEPTIC TANK

1. THE SEPTIC TANK'S PURPOSE IS TO SETTLE OUT SOLIDS, CONTAIN THE SOLIDS AND PASS TREATED EFFLUENT. BACTERIA WITHIN THE SEPTIC TANK HELPS DECOMPOSE THE SOLIDS. SHOULD ANY SOLIDS PASS THROUGH THE SEPTIC TANK INTO THE SYSTEM, PRELIMINARY CLOSING OF THE SPRING STONE OR WITH THE SOIL BENEATH THE SYSTEM IS LIKELY TO OCCUR. THE SEPTIC TANK SHOULD BE INSPECTED AND CLEANED ANNUALLY. IT SHOULD BE CONSERVATIVE AND CLEANING AGENTS CANNOT ENTER THE SYSTEM, AS THEY KILL BACTERIA.
2. THE STATE FLOW FIGURES OF 140 GALLONS PER ROOM ARE BASED ON SHORT TERM PEAK USE PERIODS (I.E. DAILY EVENTS). ACTUAL FLOWS SHOULD AVERAGE 75-100 GALLONS PER DAY PER BEDROOMS.
3. ONCE PER YEAR, THE DEPTH OF SOIL AND SLUDGE IN THE SEPTIC TANK SHOULD BE MEASURED AND THE TANK SHALL BE PUMPED IF:
  - A. THE SLUDGE LEVEL IS WITHIN 12 INCHES OF THE BOTTOM OF THE TANK.
  - B. THE SOIL LAYER IS WITHIN 3 INCHES OF THE TOP OF THE TANK.
  - C. IF A OR B IS ANTICIPATED TO OCCUR PRIOR TO THE NEXT INSPECTION.
  - D. IN ANY CASE, THE TANK SHALL BE PUMPED AT A MAXIMUM 5 YEAR INTERVAL.
4. ONCE A YEAR, THE DISTRIBUTION BOX AND/OR PUMP STATION SHOULD BE INSPECTED AND ANY SETTLED SOLIDS REMOVED.
5. THE EFFLUENT FILTER SHOULD BE INSPECTED AND CLEANED ANNUALLY.
6. ABOVE ITEMS 1-4 ARE INTENDED TO PROLONG THE LIFE OF THE SYSTEM NOT GUARANTEE IT.



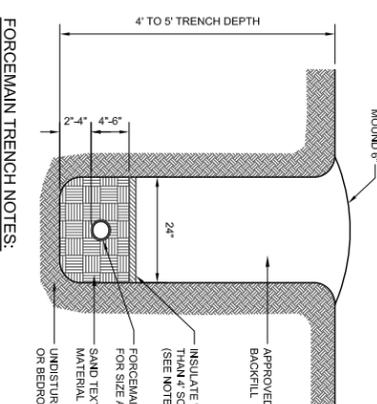
## 1,500 GALLON SIMPLIFIED STEP-TANK

NOT TO SCALE

### DESIGN NOTES:

1. 4000 PSI CONCRETE, 28 DAY STRENGTH.
2. LOW PRESSURE SEALS DESIGNED TO ACCEPT 4" CL OR PVC PIPE.
3. REQUIRES EFFLUENT PUMP CAPABLE OF PUMPING A MINIMUM OF (W) GPM VERSUS (X)TDH, AND A SUPER SINGLE PUMP SWITCH WITH A (Y)<sup>1</sup> SWING SETTING (X)TDH, AND A SUPER SET (Z) GALLONS SET 6" ABOVE THE BASE OF THE PUMP WITH HIGH LEVEL ALARM SET 6" ABOVE THE PUMP ON SETTING. IT SHOULD BE NOTED THAT ANY DEVIATION IN THE LOCATION OR ELEVATION OF THE SEPTIC TANK, PUMP STATION, OR THE DISPOSAL SYSTEM FROM THE DESIGNED LOCATION MAY REQUIRE A DIFFERENT SIZE PUMP.

LOT #	SPECIFICATIONS BY LOT		
	GPM (W)	TDH (X)	GALLONS (Z)
2	16.5	15.39	122.5
4	20.0	23.80	77.0
5	20.0	10.20	77.0

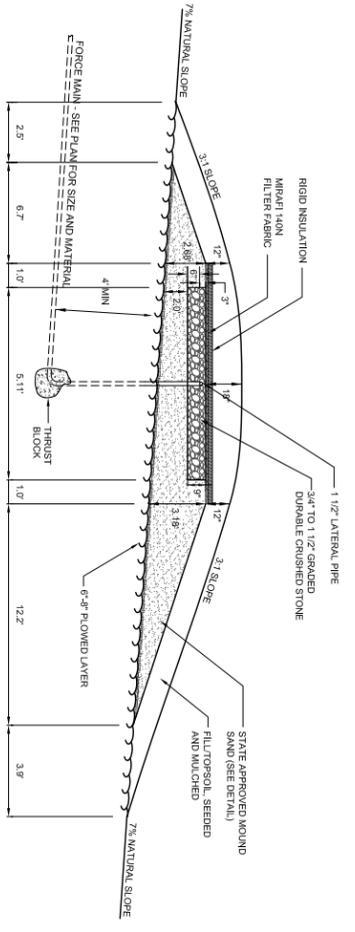


## FORCEMAIN TRENCH NOTES:

1. BACKFILL AND BEDDING SHALL BE PROPERLY COMPACTED.
2. BEDDING MATERIAL SHALL GENERALLY CONSIST OF WELL-GRADED SANDS AND SANDS WITH LESS THAN 5% SILT.
3. BACKFILL SHALL NOT CONTAIN:
  - ANY STONES MORE THAN 12" (1 1/2" MAXIMUM DIAMETER WITHIN 2' OF THE OUTSIDE OF THE PIPE) IN THE LARGEST DIMENSION.
  - BEDDING MORE THAN 50 POUNDS.
  - ORGANIC MATERIAL.
4. USE BEDDING MATERIAL OF 1/2" OR FORTIER FOOT LESS THAN 4".
5. FORCEMAIN MUST BE TESTED FOR LEAKAGE.
6. AT ANY CROSSING UNDER A ROAD OR DRIVE, FORCEMAIN IS TO BE ENCASED IN A 4" PVC SLEEVE. SAND SLEEVE IS TO EXTEND 8' IN EITHER DIRECTION FROM EDGE OF TRAVELLED WAY. THE TRENCHES 4' OR MORE IN DEPTH ENTERED BY PERSONNEL SHALL BE SHIELDED OR SLOPED TO THE ANGLE OF REPOSE AS DEFINED BY OSHA STANDARDS.

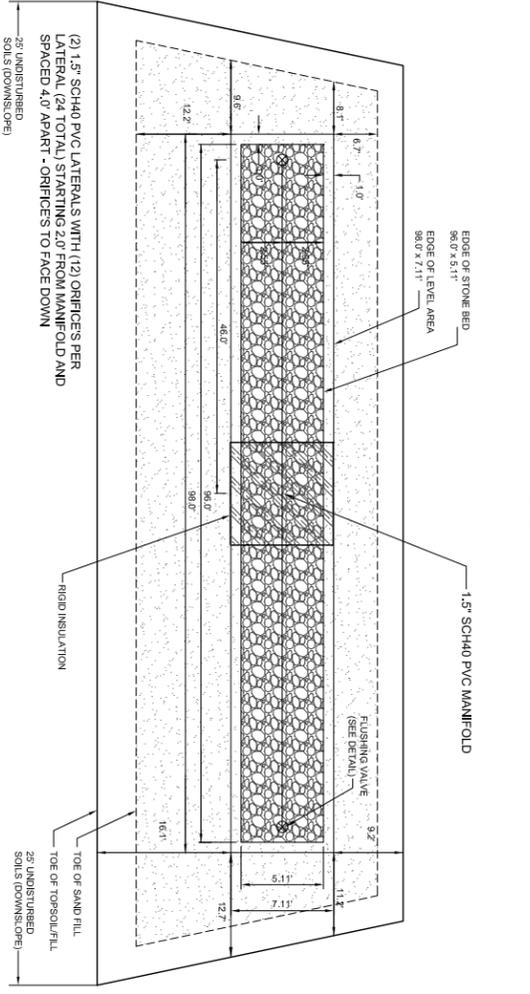
## FORCEMAIN TRENCH DETAIL

NOT TO SCALE



## LOT 2 - MOUND DISPOSAL SYSTEM - SECTION VIEW

NOT TO SCALE



## LOT 2 - MOUND DISPOSAL SYSTEM - PLAN VIEW

NOT TO SCALE

## Couture, Anderson & Smith Properties

Vineyard View Road  
Charlotte, Vermont

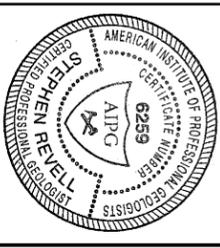
## Lots 2, 4 & 5 Wastewater Disposal System Details

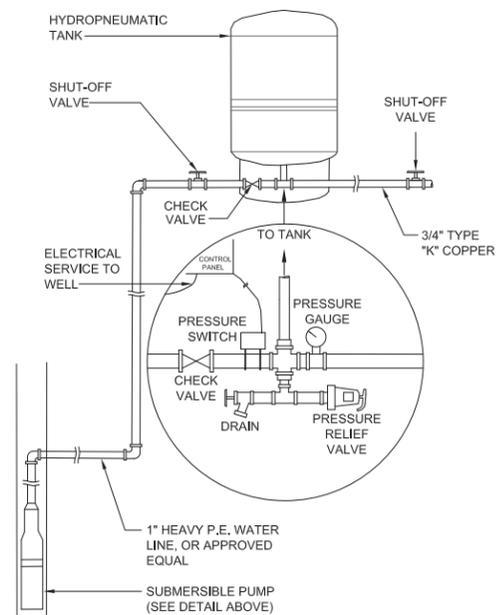
LOG PROJECT #	08901.1
DATE	June 5, 2015
SUPVISORS	ST. MATHOW
DRAWN	TAMM
Figure #	2

"I hereby certify that in the exercise of my reasonable professional judgment the design-related information submitted with this application is true and correct, and that the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules."

Stephen Revell, CPG  
Licensee Class B Designer #178

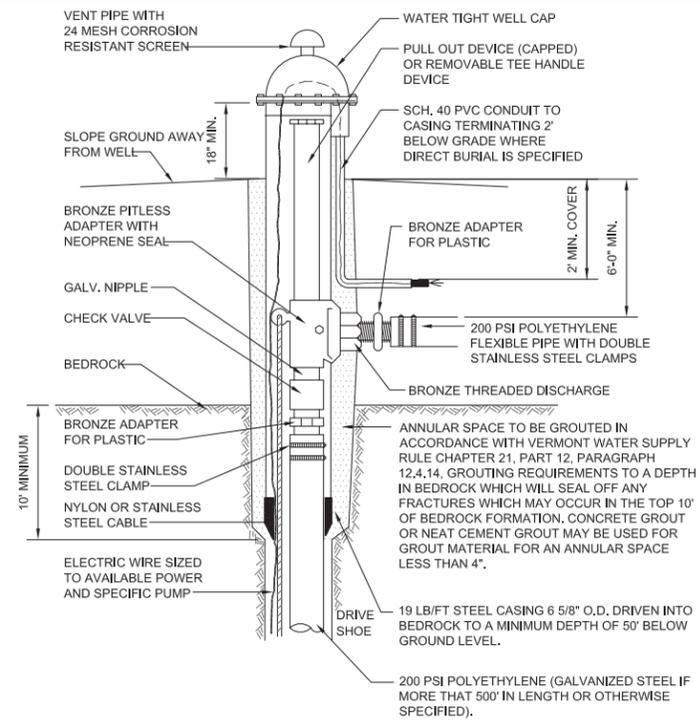
6-15-2015





**TYPICAL INDIVIDUAL WATER SYSTEM**

NOT TO SCALE

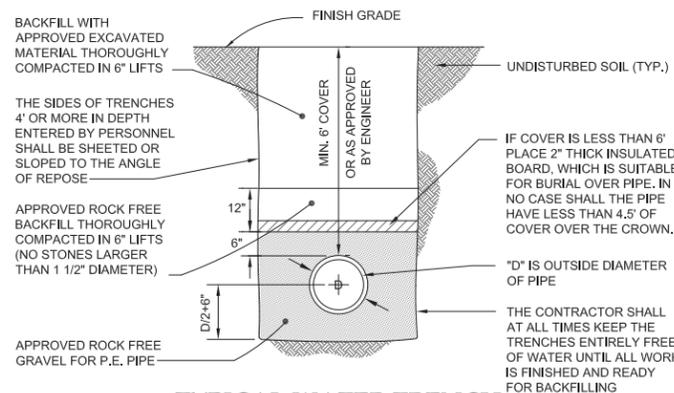


**TYPICAL INDIVIDUAL DRILLED WELL**

NOT TO SCALE

**INDIVIDUAL DRILLED WELL NOTE:**

1. THE SUBMERSIBLE PUMP MODEL AND DEPTH OF SETTING TO BE SPECIFIED BY THE ENGINEER AFTER THE WELL IS DRILLED AND YIELD TESTED (PIPE AND ADAPTOR SIZE TO SUIT ALSO).



**TYPICAL WATER TRENCH**

NOT TO SCALE

**INDIVIDUAL DRILLED WELL DESIGN DATA**

1. THE DRILLED WELL(S) CONSTRUCTION, LOCATION, DISINFECTION, AND TESTING SHALL BE IN ACCORDANCE WITH THE STATE OF VERMONT - WATER SUPPLY RULES.

2. THE BASIS OF DESIGN FOR EACH DRILLED WELL IS:

- A. AVERAGE DAY DEMAND: 4 BEDROOMS = 490 GPD.
- B. MAXIMUM DAILY DEMAND: (490 GPD)/720 MIN/DAY = 0.68 GPM (4 BEDROOM)
- C. OPERATING PRESSURE RANGE: 40-60 PSI AT PRESSURE SWITCH
- D. INSTANTANEOUS PEAK DEMAND = 5 GPM.

POTENTIAL SOURCE OF CONTAMINATION AND OTHER SITING LIMITATIONS	SEPARATION DISTANCE
Roadway, Parking Lot (outer edge of shoulder)	25 Feet
Driveway (Fewer than 3 residences)	15 Feet
Sewage System Disposal Fields	(See a.)
Subsurface Wastewater Piping and Related Tanks	50 Feet
Property Line	10 Feet (See b.)
Limit of Herbicide Application on utility R.O.W.	100 Feet (See c.)
Surface Water	10 Feet (See d.)
Buildings	10 Feet
Concentrated Livestock Holding Areas and Manure Storage Systems	200 Feet
Hazardous or Solid Waste Disposal Site	(See f.)
Non-sewage Wastewater Disposal Fields	(See f.)

**DRILLED WELL ISOLATION DISTANCES**

- a. See Table a11-2.
- b. Increased to 50' when adjacent to agricultural cropland.
- c. Applies to rights-of-way (ROW) where herbicides have been applied in the past 12 months or may be applied in the future. This distance may be increased to 200' depending on the active ingredient in the herbicide according to Vermont Regulations for Control of Pesticides.
- d. For Public water sources, see appendix A, Part 3, Subpart 3.4.
- e. Water sources shall not be located in a flood way.
- f. If a water source is potentially downgradient of a source of contamination, then the Secretary shall apply criteria in Appendix A Subpart 11.4.2.2.

"I hereby certify that in the exercise of my reasonable professional judgment the design-related information submitted with this application is true and correct, and that the design included in this application for a permit complies with the Vermont Wastewater System and Potable Water Supply Rules and the Vermont Water Supply Rules."

*Stephen Revell* 6-15-2015  
 Stephen Revell, CPG Date  
 Licensed Class B Designer #178



**Couture, Anderson & Smith Properties**

Vineyard View Road  
Charlotte, Vermont

**Lots 2, 4 & 5  
Water System Details**

LAG PROJECT #	08091.1
DATE	June 5, 2015
SURVEYORS	S. Morrow
DRAWN	TAM
Figure #	3