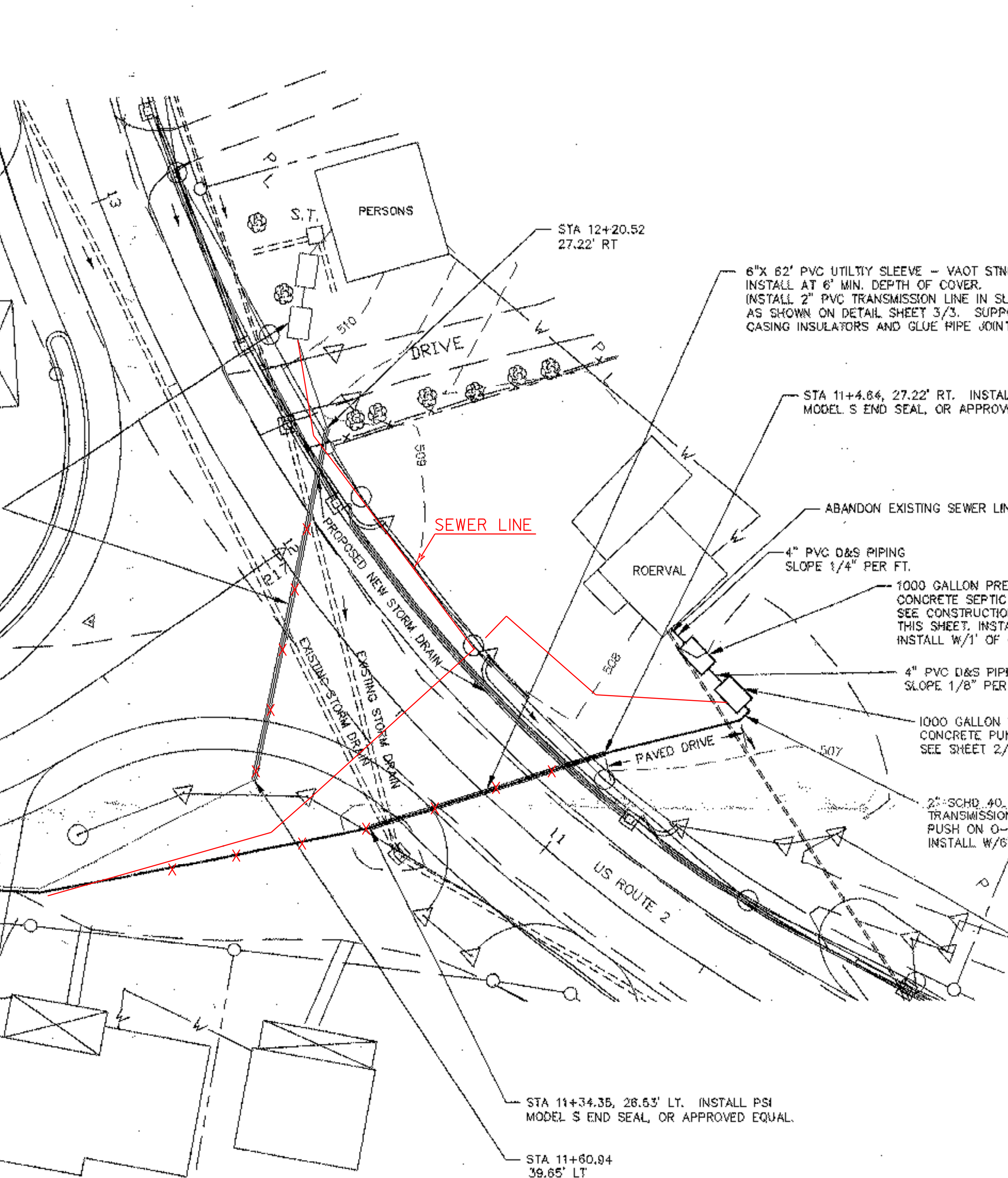
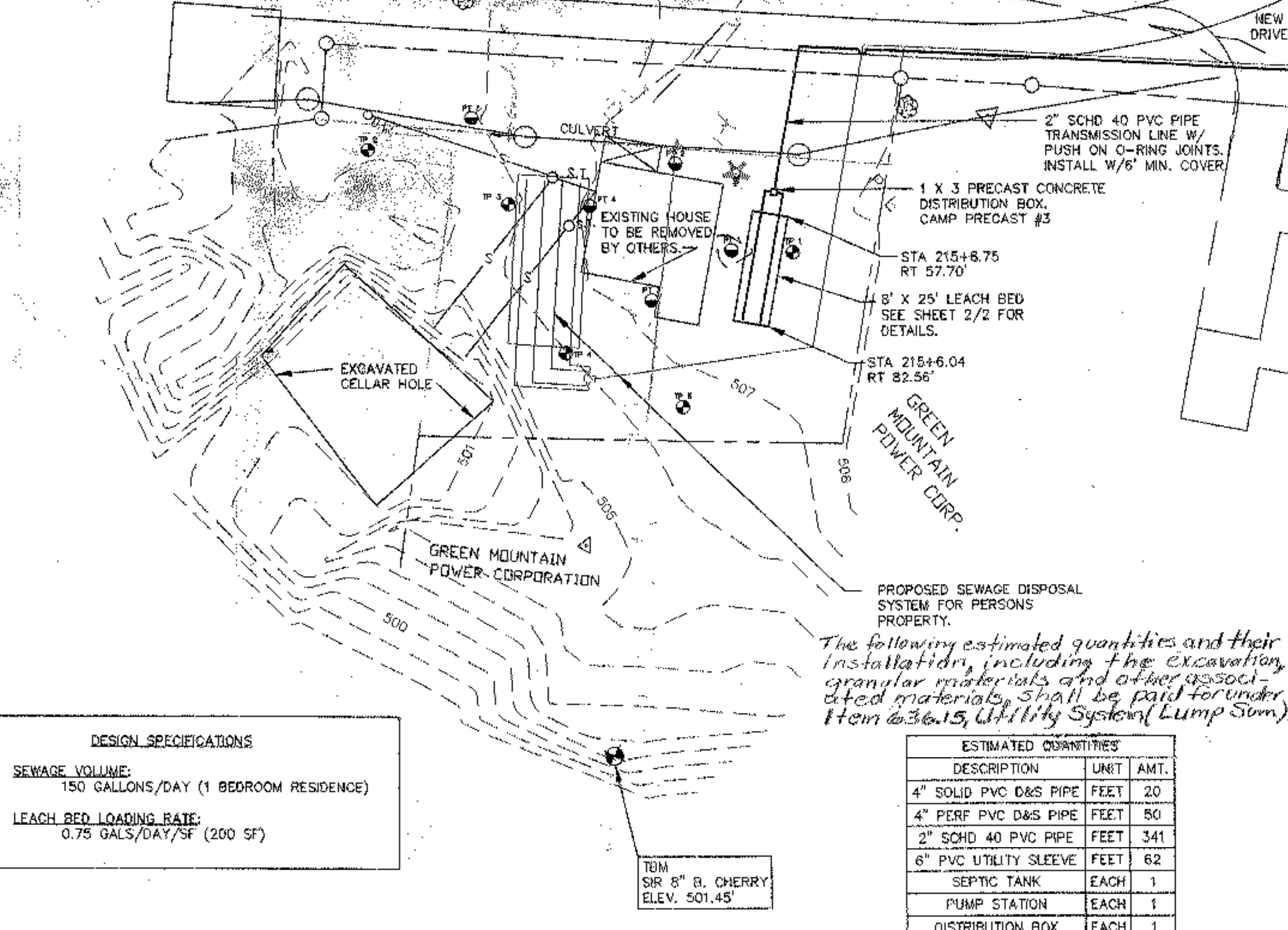
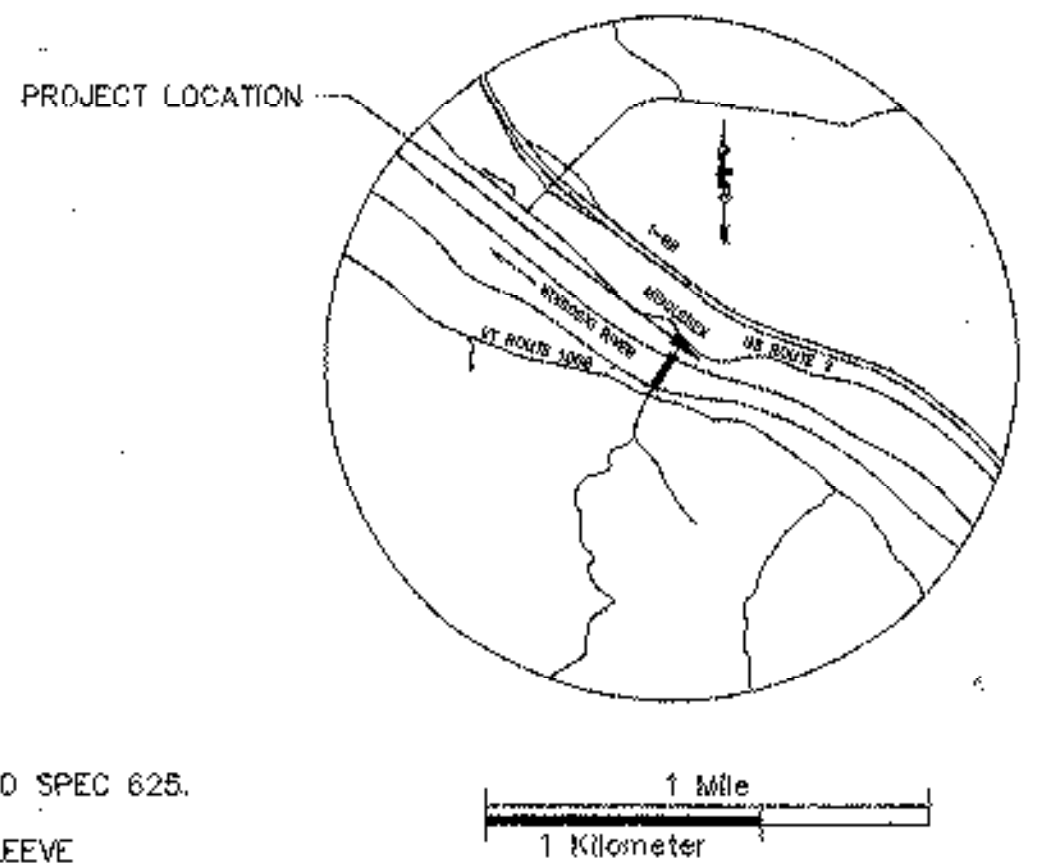


TEST PIT LOGS		
TP	DEPTH	DESCRIPTION
1	0 - 6"	Sod/topsoil.
	6" - 6'	Fill - silty loam w/black streaks, few stones.
2	6' - 7'	Native material - medium-fine gray sand.
	0 - 4"	Sod/topsoil.
	4" - 7'	Fill - silty sand w/stones.
3	7' - 7'	Native material - fine gray sand.
	0 - 4"	Sod/topsoil.
	4" - 6'	Fill - silty sand w/ashes.
4	6' - 7'	Native material - fine gray sand w/brown bands.
	0 - 4"	Sod/topsoil.
	4" - 5.5'	Fill - brown silty sand w/broken shale @ 2.5' - 3'.
5	5.5' - 7'	Native material - fine gray sand.
	0 - 4"	Sod/topsoil.
	4" - 3.5'	Fill - brown silty sand w/stones @ 1' - 2'.

PERC TESTS	
PERC HOLE	PERC RATE (min/inch)
1	4.7
2	0.5
3	0.4
4	3.9
5	8.2



DESIGN SPECIFICATIONS
 SEWAGE VOLUME:
 150 GALLONS/DAY (1 BEDROOM RESIDENCE)
 LEACH BED LOADING RATE:
 0.75 GALS./DAY/SF (200 SF)

The following estimated quantities and their installation, including the excavation, granular materials and other associated materials shall be paid for under Item #36.15, Utility System (Lump Sum).

ESTIMATED QUANTITIES		
DESCRIPTION	UNIT	AMT.
4" SOLID PVC D&S PIPE	FEET	20
4" PERF PVC D&S PIPE	FEET	50
2" SCHD 40 PVC PIPE	FEET	341
6" PVC UTILITY SLEEVE	FEET	62
SEPTIC TANK	EACH	1
PUMP STATION	EACH	1
DISTRIBUTION BOX	EACH	1
LEACH BED	EACH	1

CONSTRUCTION SPECIFICATIONS

THE PROJECT:
 Provide, construct, test, and set operating a complete sewage disposal system including septic tank, pump station, leach bed, interconnecting piping, utility sleeve, pump, power and controls, high-water alarm, all as shown on the Plans, specified herein, and directed by the Engineer. Abandon the existing sewer line for which this system is replacing. Fill the excavated cellar hole.

MATERIALS AND EQUIPMENT:

- Crushed Stone Bedding for leach bed: 1-1/2" Stone, VDOT 704.02 COARSE AGGREGATE FOR CONCRETE.
 Sieve Designation: 1-3/4" 1-1/2" 1" 3/4" 3/8"
 % Passing: 100 90-100 20-55 0-15 0-5
- Sand Borrow for leach bed:
 Sieve Designation: 10 40 200
 % Passing: 85 30-50 5-10
- Septic Tank:
 1000 gallon, 4000 psi precast concrete, two compartment; Camp Precast 1000 Standard or approved equal. Frost holes shall be properly plugged with grout prior to installation. "Ledge tank" may be substituted with Engineers approval.
- Pump Station:
 1. Vault - 1000 gallon precast, seamless concrete; Camp Precast or approved equal. Frost holes shall be properly plugged with grout prior to installation.
 2. Pump - Hydromatic OSP33 Effluent Pump or approved equal, 40 gpm @ 16 ft TDH.
 3. Pump Controls - Model JSD, S.J. Electro Systems mercury tilt switch, or approved equal. Control set for a 70 gallon pumped volume per cycle. Control level settings given on the Pump Station Detail of the drawings are for this pump station only. Contractor is responsible for settings if he substitutes another pump station.
 4. High Water Alarm - Model LB-50, Ohio Electric Control, INC., or approved equal. Audio & visual alarm installed in the house at the owner's location.

J. E. Allen
 STATE OF VERMONT
 JON E. ALLEN
 No. 3334
 REGISTERED PROFESSIONAL ENGINEER

REV. NO.	DATE	DESCRIPTION	MADE BY	CHECKED BY	APPROVED BY
8	8/26/98	CHANGED NOTES	JEA	DAK	
7	6/28/98	CHANGED QUANTITY ESTIMATE	JEA	DAK	
6	5/28/98	CHANGED PIPELINE ROUTES	JEA	DAK	
5	1/15/98	CHANGED QUANTITY ESTIMATE	JEA	DAK	
4	1/15/98	CHANGED SCOPE OF WORK	JEA	DAK	
3	1/15/98	CHANGED PIPELINE ROUTES	JEA	DAK	

ROERVAL PROPERTY
 MIDDLESEX, VERMONT

SEWAGE DISPOSAL SYSTEM
 PLANS

JUN 8 9 1995

SURVEYED VSE	DESIGNED JEA	SCALE 1" = 20'
DRAWN VSE	CHECKED VSE	PROJECT NO. 13194
TRACED	DATE 1/9/95	DRAWING NO. 1/3
CHECKED	SUBMITTED JON E. ALLEN	