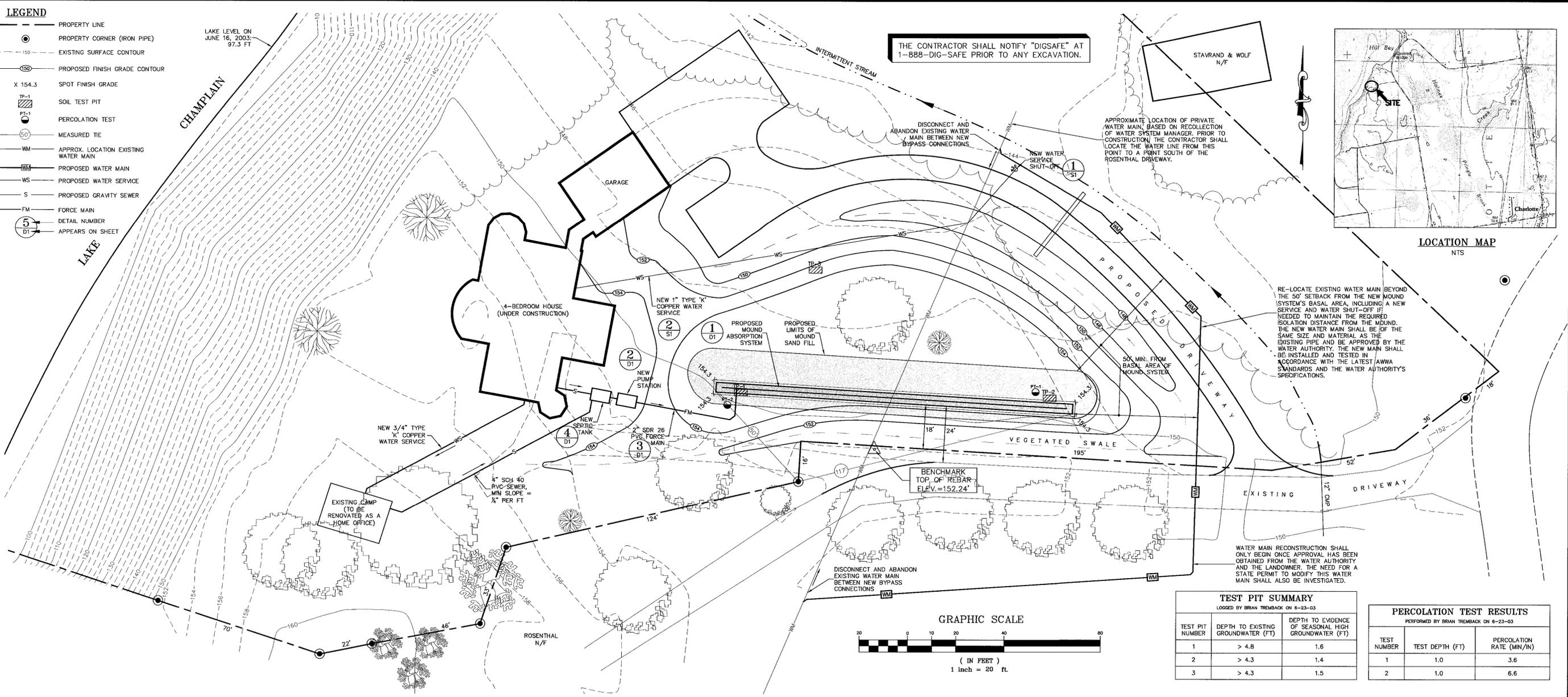


**LEGEND**

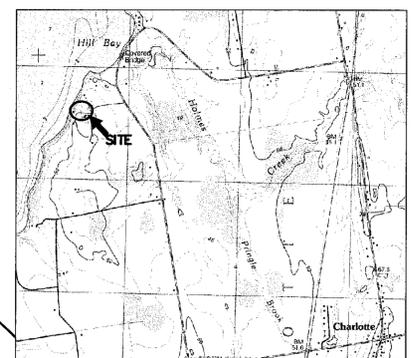
- PROPERTY LINE
- PROPERTY CORNER (IRON PIPE)
- - - EXISTING SURFACE CONTOUR
- - - PROPOSED FINISH GRADE CONTOUR
- X 154.3 SPOT FINISH GRADE
- TP-1 SOIL TEST PIT
- PT-1 PERCOLATION TEST
- MEASURED TIE
- WM APPROX. LOCATION EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- WS PROPOSED WATER SERVICE
- S PROPOSED GRAVITY SEWER
- FM FORCE MAIN
- 5 DT DETAIL NUMBER APPEARS ON SHEET

LAKE LEVEL ON JUNE 16, 2003: 97.3 FT



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

STAVRAND & WOLF N/F



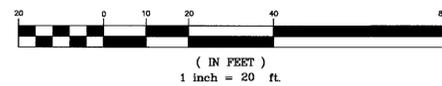
LOCATION MAP NTS

RE-LOCATE EXISTING WATER MAIN BEYOND THE 50' SETBACK FROM THE NEW MOUND SYSTEM'S BASAL AREA, INCLUDING A NEW SERVICE AND WATER SHUT-OFF IF NEEDED TO MAINTAIN THE REQUIRED ISOLATION DISTANCE FROM THE MOUND. THE NEW WATER MAIN SHALL BE OF THE SAME SIZE AND MATERIAL AS THE EXISTING PIPE AND BE APPROVED BY THE WATER AUTHORITY. THE NEW MAIN SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND THE WATER AUTHORITY'S SPECIFICATIONS.

WATER MAIN RECONSTRUCTION SHALL ONLY BEGIN ONCE APPROVAL HAS BEEN OBTAINED FROM THE WATER AUTHORITY AND THE LANDOWNER. THE NEED FOR A STATE PERMIT TO MODIFY THIS WATER MAIN SHALL ALSO BE INVESTIGATED.

DISCONNECT AND ABANDON EXISTING WATER MAIN BETWEEN NEW BYPASS CONNECTIONS

**GRAPHIC SCALE**



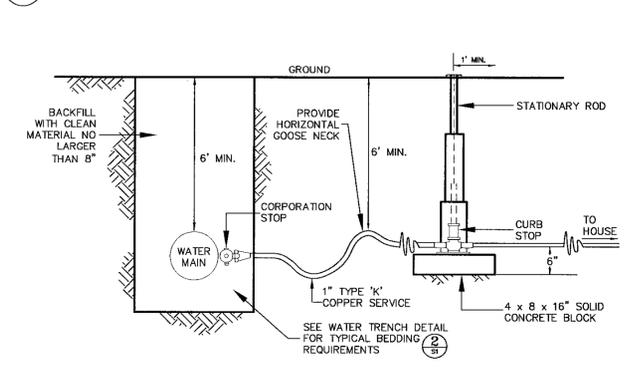
**TEST PIT SUMMARY**  
LOGGED BY BRIAN TREMBACK ON 8-23-03

TEST PIT NUMBER	DEPTH TO EXISTING GROUNDWATER (FT)	DEPTH TO EVIDENCE OF SEASONAL HIGH GROUNDWATER (FT)
1	> 4.8	1.6
2	> 4.3	1.4
3	> 4.3	1.5

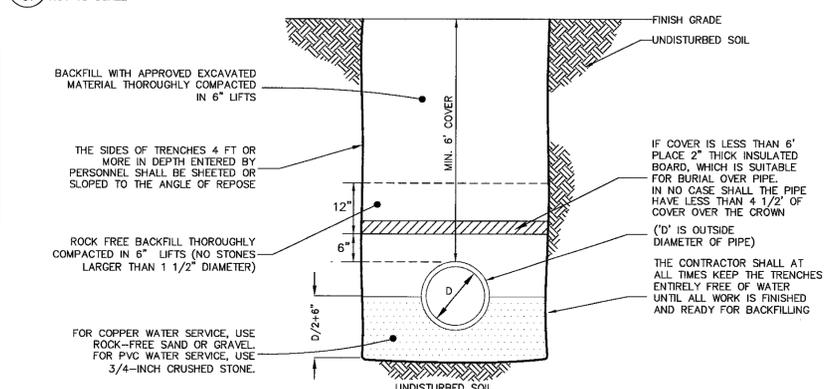
**PERCOLATION TEST RESULTS**  
PERFORMED BY BRIAN TREMBACK ON 8-23-03

TEST NUMBER	TEST DEPTH (FT)	PERCOLATION RATE (MIN/IN)
1	1.0	3.6
2	1.0	6.6

**1 WATER SERVICE**  
S1 NOT TO SCALE



**2 WATER TRENCH**  
S1 NOT TO SCALE



**NOTES:**

1) THE WASTEWATER REPLACEMENT SYSTEM IS SHOWN ON A BASE PLAN CREATED FROM A TOPOGRAPHIC SURVEY OF THE SUBJECT PROPERTY. LAMOUREUX & DICKINSON DID NOT PERFORM DEED RESEARCH OR A BOUNDARY SURVEY AND THEREFORE CANNOT PROVIDE DEFINITIVE BOUNDARY INFORMATION. THE PROPERTY LINES DEPICTED ARE BASED ON DEED DESCRIPTIONS, A BOUNDARY ADJUSTMENT SURVEY ENTITLED "ROSENTHAL-PRIES, PREPARED BY CIVIL ENGINEERING ASSOCIATES, INC., DATED SEPT. 30, 1968, RECORDED IN MAP BOOK 8, PAGE 48, AND PHYSICAL EVIDENCE FOUND.

2) LANDSCAPE GRADING CONTOURS AND PROPOSED DRIVEWAY LOCATION WAS BASED ON A CONCEPT PLAN PREPARED BY DISTINCTIVE LANDSCAPING OF CHARLOTTE, VERMONT.

6-18-04	NOTES, UTILITIES TO HOME OFFICE	BJT
6-12-04	ADD NEW HOUSE LOCATION, RESIZE WW SYSTEM	BJT
date	description	by

REVISIONS		# OF SHEETS
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input type="checkbox"/> SKETCH/CONCEPT		
<input type="checkbox"/> PRELIMINARY		
<input checked="" type="checkbox"/> FINAL		2
<input type="checkbox"/> RECORD DRAWING		

**LINGER PROPERTY**  
HOLMES ROAD  
CHARLOTTE, VERMONT

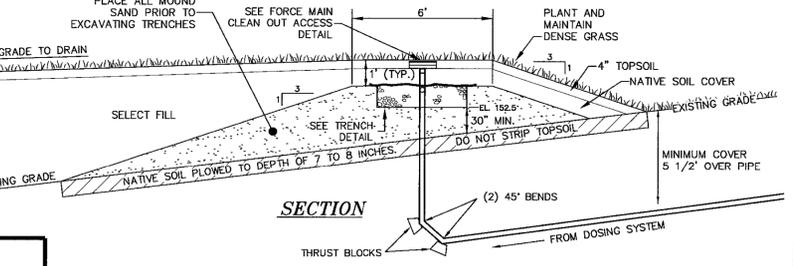
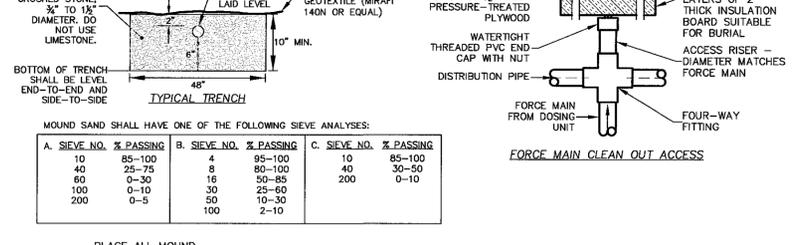
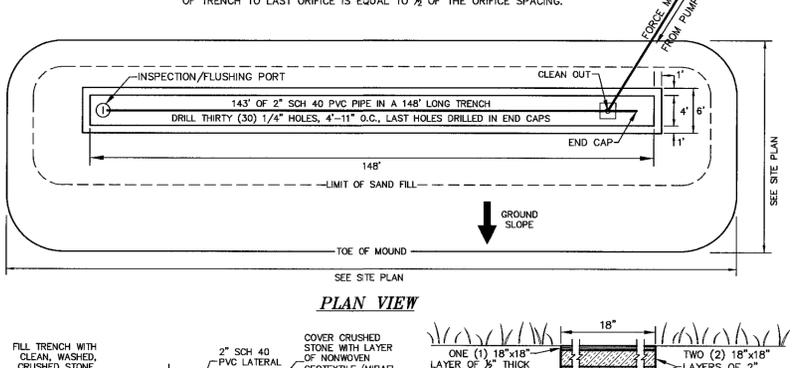
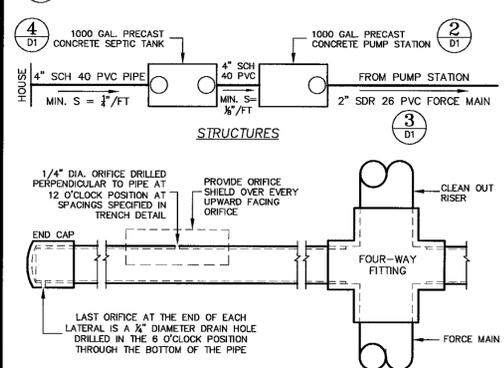
**WASTEWATER SYSTEM DESIGN**

**LAMOUREUX & DICKINSON**  
Consulting Engineers, Inc.  
14 Morse Drive  
Essex Junction, VT 05452 (802) 878-4450

proj. no. 03054  
survey L&D  
design BJT  
drawn BJT  
checked DJG  
date 7-31-03  
scale 1"=20'  
sh. no. S1



**1 MOUND ABSORPTION SYSTEM** (NOT TO SCALE)      **2 EFFLUENT PUMP STATION** (NOT TO SCALE)      **3 FORCE MAIN TRENCH** (NOT TO SCALE)      **4 1,000 GAL. PRECAST CONCRETE SEPTIC TANK** (NOT TO SCALE)



**MOUND SAND SHALL HAVE ONE OF THE FOLLOWING SIEVE ANALYSES:**

A. SIEVE NO.	% PASSING	B. SIEVE NO.	% PASSING	C. SIEVE NO.	% PASSING
10	85-100	4	95-100	10	85-100
40	25-75	8	80-100	40	30-50
60	0-30	16	50-85	200	0-10
100	0-10	30	25-60		
200	0-5	50	10-30		
		100	2-10		

**DESIGN DATA**

- THE PURPOSE OF THIS DESIGN IS TO PROVIDE A WASTEWATER SYSTEM FOR A NEW HOUSE THAT REPLACES AN EXISTING HOUSE. IT IS THE OPINION OF THE ENGINEER THAT SOIL AND SITE CONDITIONS WITHIN THE PROPOSED SEWAGE DISPOSAL AREA MEET THE REQUIREMENTS OF THE VERMONT ENVIRONMENTAL PROTECTION RULES - CHAPTER 1, (602.02) FOR ON-SITE SEWAGE DISPOSAL.
- BASIS OF DESIGN**  
SEWAGE FLOWS (4 BDRMS) = 600 GPD  
WITH 10% WATER CONSERVING FIXTURE REDUCTION = 540 GPD  
PERCOLATION RATE = 3.6 MIN/IN  
APPLICATION RATE = 1.00 GPD/SQ FT  
ABSORPTION AREA REQUIRED (540/1.0) = 540 SQ FT  
BASAL AREA REQUIRED (540/.74) = 730 SQ FT
- SUBMITTALS BY CONTRACTOR REQUIRED:**  
- MEASURED TIES TO THE SEPTIC TANK, PUMP STATION, FORCE MAIN, AND CORNERS OF THE ABSORPTION TRENCH WITHIN THE MOUND  
- REPRESENTATIVE SIEVE ANALYSIS FOR MOUND SAND  
- MANUFACTURER'S SPECS FOR PUMP STATION TANK, PUMP, FLOATS, AND CONTROLS

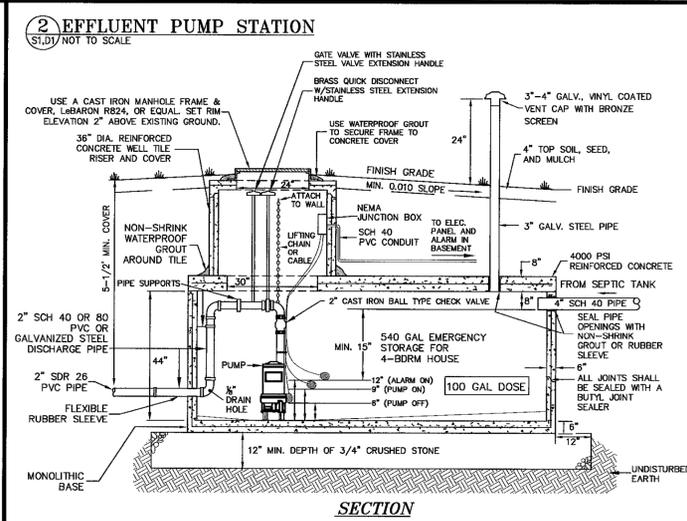
**MOUND CONSTRUCTION SPECIFICATIONS**

- UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM THE BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.
- PRIOR TO CONSTRUCTION, ALL MATERIALS SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL BE KEPT OFF THE AREA TO BE USED FOR EFFLUENT ABSORPTION AS MUCH AS POSSIBLE TO PREVENT UNDESIRABLE COMPACTION OF THE SOILS.
- ABOVE-GROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE THROUGHOUT THE SEWAGE DISPOSAL AREA. THE AREA TO RECEIVE SAND FILL SHALL BE PLOWED TO A DEPTH OF SEVEN (7) TO EIGHT (8) INCHES, PARALLEL TO THE LAND CONTOUR WITH THE PLOW THROWING THE SOIL UP-SLOPE TO PROVIDE A PROPER INTERFACE BETWEEN THE FILL AND THE NATURAL SOIL. ONCE THE PLOWING OF THE LAND IS COMPLETED, THE AREA SHALL BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM DRIVING ON THE PREPARED SOIL.
- TO PREVENT COMPACTION, CONSTRUCTION EQUIPMENT SHALL NOT BE MOVED ACROSS THE PLOWED SURFACE. HOWEVER, AFTER PLACEMENT OF A MINIMUM OF SIX (6) INCHES OF SAND FILL OVER THE PLOWED AREA, LOW GROUND PRESSURE CONSTRUCTION EQUIPMENT MAY BE DRIVEN OVER THE PROTECTED SURFACE TO EXPEDITE CONSTRUCTION. CONSTRUCTION AND/OR PLOWING SHALL NOT BE INITIATED WHEN THE SOIL MOISTURE CONTENT IS HIGH.
- THE AREA TO RECEIVE MOUND SAND SHALL BE PLOWED TO A DEPTH OF SEVEN (7) TO EIGHT (8) INCHES TO PROVIDE A PROPER INTERFACE BETWEEN THE NATIVE SOIL AND MOUND SAND. THE MOUND SAND SHALL HAVE A PARTICLE SIZE GRADATION AS SHOWN IN THE DETAIL. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FURNISH A CURRENT SIEVE ANALYSIS REPORT ON THE SAND TO BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.
- THE TRENCHES SHALL BE EXCAVATED INTO THE MOUND SAND AS SHOWN IN THE DETAIL. THE BOTTOM OF THE TRENCHES SHALL BE ABSOLUTELY LEVEL END-TO-END AND SIDE-TO-SIDE.
- IMMEDIATELY BEFORE PLACEMENT OF CRUSHED STONE IN THE TRENCHES, THE SIDES AND BOTTOM SHALL BE RAKED TO REMOVE ANY SMEARED OR COMPACTED SOIL SURFACES.
- PLACEMENT OF STONE SHALL BE INITIATED IMMEDIATELY AFTER TRENCH PREPARATION IS COMPLETED. THIS WILL REQUIRE THAT THE ENGINEER BE PRESENT AT THE TIME OF COMPLETION OF TRENCH EXCAVATION (SEE INSPECTION SPECIFICATIONS).

**WASTEWATER SYSTEM TESTING**

THE CONTRACTOR SHALL FURNISH ALL FACILITIES AND PERSONNEL FOR CONDUCTING THE FOLLOWING TESTS:

- SEPTIC TANK/PUMP STATION TEST:** AFTER INSTALLATION, THE TANKS SHALL BE WATER-TIGHT. EACH TANK SHALL BE TESTED BY FILLING TO A POINT AT LEAST TWO (2) INCHES, BUT NOT MORE THAN THREE (3) INCHES ABOVE THE POINT OF RISER CONNECTION TO THE TOP OF THE TANK. IT WILL BE NECESSARY TO PLUG THE INLET AND OUTLET OF ANY PRE-EXISTING SEPTIC TANK AND SEAL ADDITIONAL ACCESS PORTS. A STABILIZATION PERIOD OF ONE (1) HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THE STABILIZATION PERIOD, THE STRUCTURE SHALL BE REFILLED IF NECESSARY. THE TEST OF TWENTY-FOUR (24) HOURS SHALL THEN BEGIN. DURING THE TEST, THE STRUCTURE'S ACCESS PORTS SHALL BE COVERED TO PROTECT FROM RAIN AND INFILTRATION. AT THE END OF THE TEST, THERE SHALL BE NO VISIBLE OR MEASURABLE EXPIRATION OR INFILTRATION OR THE TEST SHALL BE CONSIDERED FAILED. IF THE TEST FAILS, THE CONTRACTOR SHALL REPAIR OR REPLACE THE STRUCTURE AND RE-TEST AT NO EXTRA EXPENSE TO THE OWNER.
- FORCE MAIN PRESSURE TEST:** THE PVC FORCE MAIN SHALL BE FILLED WITH WATER AND TESTED BY THE CONTRACTOR TO A MINIMUM PRESSURE OF 50 PSI AT THE HIGHEST POINT ALONG THE FORCE MAIN FOR TWO HOURS AND THE PRESSURE SHALL NOT VARY MORE THAN 5 PSI. THE NEW LINES SHALL NOT BE ACCEPTED IF THE LEAKAGE DURING THE TWO-HOUR TEST IS GREATER THAN THAT DETERMINED BY THE FOLLOWING FORMULA:  
$$L = \frac{ND\sqrt{P}}{7400}$$
WHERE L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR  
N = THE NUMBER OF JOINTS IN THE LENGTH OF PIPELINE TESTED  
D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES  
P = THE AVERAGE TEST PRESSURE DURING THE LEAKAGE MEASURED IN POUNDS PER SQUARE INCH  
LEAKAGE IS DEFINED AS THE QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE NEWLY LAID PIPE TO MAINTAIN THE PRESSURE OF 50 PSI. THE CONTRACTOR SHALL AT ONCE LOCATE ANY LEAKS AND ACHIEVE THE ACCEPTABLE LIMIT AT NO EXTRA CHARGE TO THE OWNER.
- PUMP STATION:** THE CONTRACTOR AND THE ENGINEER SHALL BE PRESENT DURING START-UP. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO PERFORM A FULL OPERATIONAL CHECK OF THE PUMP STATION, INCLUDING ALL FLOAT FUNCTIONS, ALARMS, AND INDICATOR LIGHTS. THE PUMP SHALL BE FIELD-TESTED TO INSURE THE PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.



**SECTION**

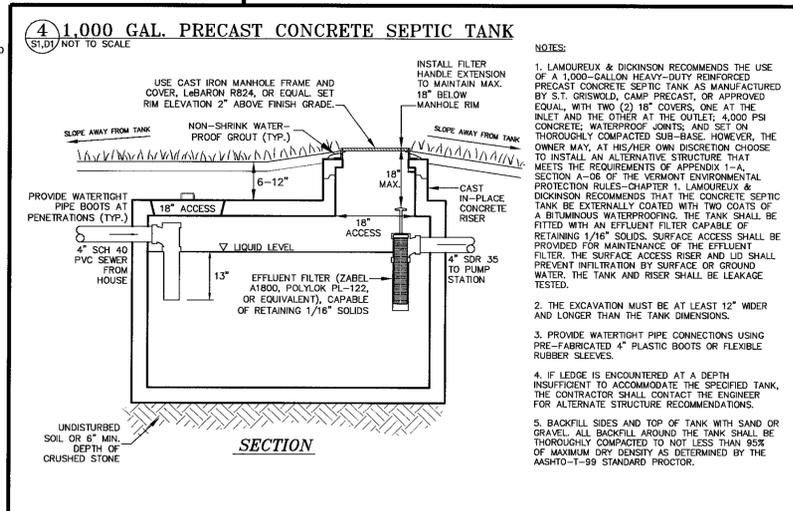
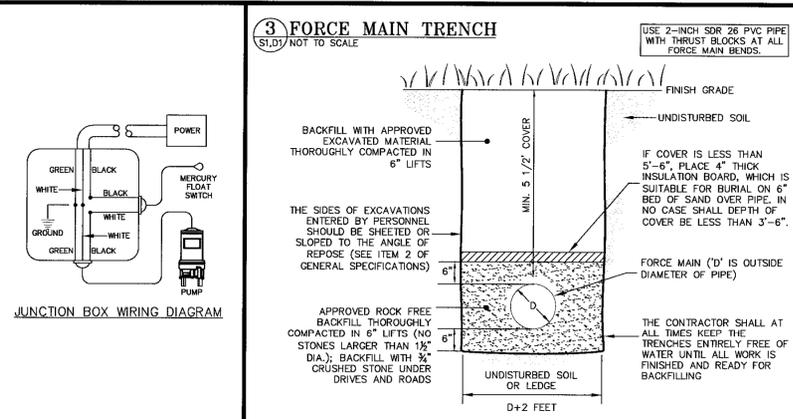
- THE PUMP STATION TANK SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE THE REQUIRED PUMP, THE SPECIFIED DOSE VOLUME, AND THE NECESSARY EMERGENCY STORAGE VOLUME.
- LAMOUREUX & DICKINSON RECOMMENDS THE USE OF A STEEL-REINFORCED, 4,000 PSI CONCRETE TANK CONSTRUCTED TO WITHSTAND H=20 WHEEL LOADING. HOWEVER, THE OWNER, AT HIS/HER OWN DISCRETION, MAY USE AN ALTERNATIVE STRUCTURE IN CONFORMANCE WITH THE VERMONT ENVIRONMENTAL PROTECTION RULES.
- THE TANK SHALL HAVE SUFFICIENT CAPACITY FOR THE SPECIFIED DOSE AND EMERGENCY STORAGE VOLUMES.
- THE TANK AND ITS RISER(S) SHALL BE WATER-TIGHT (SEE TESTING SPECIFICATIONS). THE CONTRACTOR SHALL FURNISH ALL FACILITIES AND PERSONNEL FOR CONDUCTING THE FOLLOWING TEST: THE PUMP STATION TANK SHALL BE TESTED BY FILLING TO A POINT AT LEAST TWO (2) INCHES, BUT NOT MORE THAN THREE (3) INCHES ABOVE THE POINT OF RISER CONNECTION TO THE TOP OF THE TANK. IT WILL BE NECESSARY TO PLUG THE INLET AND OUTLET IF THESE ARE NOT STILL SEALED. A STABILIZATION PERIOD OF ONE (1) HOUR SHALL BE PROVIDED TO ALLOW FOR ABSORPTION. AT THE END OF THE STABILIZATION PERIOD, THE STRUCTURE SHALL BE REFILLED IF NECESSARY. THE TEST OF TWENTY-FOUR (24) HOURS SHALL THEN BEGIN. DURING THE TEST, THE STRUCTURE'S ACCESS PORT(S) SHALL BE COVERED TO PROTECT FROM RAIN AND INFILTRATION. AT THE END OF THE TEST, THERE SHALL BE NO VISIBLE OR MEASURABLE EXPIRATION OR INFILTRATION OR THE TEST SHALL BE CONSIDERED FAILED. IF THE TEST FAILS, THE CONTRACTOR SHALL REPAIR OR REPLACE THE STRUCTURE AND RE-TEST AT NO EXTRA EXPENSE TO THE OWNER.
- THE PUMP STATION TANK SHALL BE CONSTRUCTED TO MINIMIZE THE RISK OF FREEZING OF EFFLUENT IN THE PIPES OR STRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO PROVIDING A DRAIN HOLE TO ALLOW THE FORCE MAIN TO DRAIN BETWEEN DOSES.
- BACKFILL SIDES AND TOP OF TANK WITH SAND OR GRAVEL. ALL BACKFILL MATERIAL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.
- ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND MATERIALS SHALL MEET U.L. APPROVAL.
- AT A MINIMUM, THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE PUMP STATION:  
-ALARM, FLOATS, CONTROLS  
-NEMA 4 JUNCTION BOX  
-LIGHT AND AUDIBLE ALARMS  
-MAIN DISCONNECT SWITCH  
-LIGHTNING PROTECTION
- PUMP SPECIFICATIONS**  
HEAD LOSSES:  
2" SCH 40 PVC @ 34 GPM = 1.1 FT  
55' OF FORCE MAIN @ 5.0 FT STATIC LIFT (155'-145') = 5.0 FT  
VALVES AND FITTINGS = 3.7 FT  
MINIMUM IN-LINE PRESSURE = 2.5 FT  
TOTAL HEAD LOSS = 12.1 FT  
MIN. DISCHARGE RATE = 34 GPM
- USE ONE (1) PUMP, SINGLE PHASE, 230 VOLTS, MINIMUM CAPACITY: 25 GPM @ 14 FT TDH, CAPABLE OF PASSING 1/2" SOLID (HYDROMATIC SP90, ZOEHLER 161/4161, OR EQUAL).
- THE CONTRACTOR AND THE ENGINEER SHALL BE PRESENT DURING START-UP. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO PERFORM A FULL OPERATIONAL CHECK OF THE PUMP STATION, INCLUDING ALL FLOAT FUNCTIONS, ALARMS, AND INDICATOR LIGHTS. THE PUMP SHALL BE FIELD-TESTED TO INSURE THE PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.

**MAINTENANCE**

- ONCE PER YEAR, THE SEPTIC TANK SHALL BE INSPECTED BY A QUALIFIED PERSON FOR THE ACCUMULATION OF SLUDGE AND SCUM. THE TANK SHALL BE PUMPED IF THE FUNCTION OF THE TANK IS COMPROMISED, OR EXPECTED TO BE COMPROMISED, BEFORE THE NEXT ANNUAL INSPECTION. THE EFFLUENT FILTER SHALL ALSO BE CLEANED AT THIS TIME.
- ONCE PER YEAR, THE PUMP STATION AND ABSORPTION FIELD SHALL BE INSPECTED BY A QUALIFIED PERSON. THE PROPER FUNCTIONING OF THE SYSTEM COMPONENTS SHALL BE VERIFIED AND ANY NECESSARY REPAIRS, CLEANING, OR OTHER MAINTENANCE SHALL BE DONE.
- DO NOT FLUSH OR DISCHARGE TO THE SEWAGE DISPOSAL SYSTEM ANY MATERIALS THAT ARE NON-BIODEGRADABLE OR SLOW TO DECOMPOSE, SUBSTANCES THAT CAN SLOW OR HALT BIOLOGICAL ACTIVITY, OR MATERIALS THAT CAN OVERLOAD THE TREATMENT CAPACITY OF THE SYSTEM. THIS INCLUDES, FOR EXAMPLE: FOOD WASTE, HIGH-STRENGTH PAPER TOWELS, FEMINE NAPKINS AND TAMPONS, CONDOMS, FATS AND OILS, PESTICIDES, DISINFECTANTS, STRONG ACIDS AND BASES, PAINTS, SOLVENTS, SOIL, AND SALTS. DO NOT USE GARAGE DISPOSALS.
- EXCESS WATER USAGE WILL SIGNIFICANTLY REDUCE THE LIFE OF ANY SEWAGE DISPOSAL SYSTEM. WATER FIXTURES SHALL BE REGULARLY INSPECTED FOR LEAKS AND PROMPTLY REPAIRED IF NECESSARY.
- WATER TREATMENT SYSTEM BACKWASH, IF ANY, SHALL NOT BE DISCHARGED INTO THE SEWAGE DISPOSAL SYSTEM.
- THE SOIL COVERING THE MOUND SYSTEM SHALL BE WELL-VEGETATED BUT MAINTAINED FREE OF TREES AND SHRUBS.
- THE SEWAGE DISPOSAL SYSTEM SHALL NOT BE SUBJECT TO VEHICULAR TRAFFIC, HEAVY EQUIPMENT, EXCESSIVE FOOT TRAFFIC, EXCAVATION, TILLING, OR OTHER POTENTIALLY DAMAGING ACTIVITY.

**GENERAL SPECIFICATIONS**

- THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.
- LAMOUREUX & DICKINSON DOES NOT UNDERTAKE OR ASSUME ANY RESPONSIBILITY FOR SAFETY ON THE CONSTRUCTION SITE BUT DOES REMIND THE CONTRACTOR THAT THE SIDES OF EXCAVATIONS ENTERED BY PERSONNEL SHOULD BE SHEETED OR SLOPED TO THE ANGLE OF REPOSE. IN ANY CASE, THE CONTRACTOR SHOULD WORK IN STRICT COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO DEVELOP THIS PROPERTY UNLESS OTHERWISE NOTED ON THESE PLANS. CONTRACTOR SHALL REMOVE ALL TRASH FROM SITE UPON COMPLETION OF CONSTRUCTION.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF NATURAL RESOURCES STANDARDS, 10-STATE STANDARDS, AWWA STANDARDS, AND THESE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OR HER OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD, WHERE AND WHEN DEEMED NECESSARY BY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER, APPLY CALCIUM CHLORIDE, OR SWEEP THE ROADWAY WITH A POWER BROOM AS DUST CONTROL.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND SHALL BE STABILIZED WITH SEEDING AND MULCHING WITHIN 15 DAYS. ANY WORK PERFORMED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR MATTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND RE-MULCHED AS SOON AS WEATHER PERMITS IN THE SPRING.
- ALL SLOPES, DITCHES, AND DISTURBED AREAS SHALL BE GRADED SMOOTH AND BE FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
- ALL STRUCTURAL BACKFILL SHALL BE PLACED IN 6-INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.
- ALL NON-PERFORATED PIPE TRENCH BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.



**SECTION**

- INSTALL FILTER EXTENSION HANDLE TO MAINTAIN MAX. 18" BELOW RIM MANHOLE RIM.
- THE EXCAVATION MUST BE AT LEAST 12" WIDER AND LONGER THAN THE TANK DIMENSIONS.
- PROVIDE WATER-TIGHT PIPE CONNECTIONS USING PRE-FABRICATED 4" PLASTIC BOOTS OR FLEXIBLE RUBBER SLEEVES.
- IF LEDGE IS ENCOUNTERED AT A DEPTH INSUFFICIENT TO ACCOMMODATE THE SPECIFIED TANK, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATE SITE RECOMMENDATIONS.
- BACKFILL SIDES AND TOP OF TANK WITH SAND OR GRAVEL. ALL BACKFILL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.

**REVISIONS**

date	description	by	# OF SHEETS
6-12-04	MOUND SYSTEM DESIGN	BJT	

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

SKETCH/CONCEPT  
 PRELIMINARY  
 FINAL  
 RECORD DRAWING

**LINGER PROPERTY**  
HOLMES ROAD  
CHARLOTTE, VERMONT

**WASTEWATER SYSTEM**  
DETAILS AND  
SPECIFICATIONS

proj. no. 03054  
survey TB/IMG  
design BJT  
drawn BJT  
checked D/J,GAL  
date 7-31-03  
scale NOT TO SCALE  
sheet no. D1

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Essex Junction, VT 05452 (802) 878-4450