

Appeal Period Expires 9/12/07  
 Zoning District AR

**Town of Essex, Vermont**  
**Application for Zoning Permit**  
 www.essex.org

Application Date 8/29/07  
 Permit Number 2007-126

All construction is to be completed in accordance with the Town of Essex Zoning Regulations and any/all federal or state regulations now in effect. You are required to post this permit in a conspicuous location on the property and it must remain posted throughout the construction period.

Any interested person may appeal the decision of the Zoning Administrator to the Zoning Board of Adjustment within fifteen (15) days of the permit's date of issuance. Commencing construction within this fifteen (15) day appeal period is prohibited by law. Occupancy of the premises shall not take place until a Certificate of Occupancy is obtained.

Approval is subject to accuracy of information provided by the applicant.

**A**

Parcel Account Num. (Map-Parcel-Lot) 2- 021-025-081  
 (found in Town Assessor's Office)  
 Property Address: 81 Weed Rd (Lot #1)  
 Owner: River Wood Partnership LLC  
 Owner Address: 4049 Williston Rd S. Burl. VT  
 Owner Phone: (work) 864-0600 (home) \_\_\_\_\_  
 (cell) \_\_\_\_\_ (Email) \_\_\_\_\_  
 Contractors name: Sterling Construction Phone: 864-0600  
 Cell: \_\_\_\_\_  
 Estimated Construction Dates: Start: 08/27/07 Completion: 01/11/08  
 Sq. Feet: 2356 Estimated Cost (labor & materials): \$ 260,000

**B**

Sewage Disposal (Please attach Sewer or Septic Application).  
 Public  Private  Connection Fee \$ (State) Date Paid: 1/1  
 Proposed New Bedrooms: 4 Existing Bedrooms \_\_\_\_\_

**C**

Water (Please attach Water Service Application).  
 Public  Private  Fee \$ \_\_\_\_\_ Date Paid: 1/1

**D**

Driveway (Please attach copy of approved Curbcut / Utility Application).  
 Date of approval Nov/09/06

**E**

Stormwater  
 Project disturbs an area greater than or equal to 1 acre – Erosion Control Permit Required. Attach completed permit application.  
 Project creates new or expands existing impervious surface greater than or equal to 1/2 acre – Erosion Control Permit and Stormwater Management Permit required. Attach completed permit application.

Diagram – Show a sketch of project on reverse of this application with property lines, building, and setbacks or attach separate sheet. (Instruction sheet available upon request.)

*Reference attachments  
 be constructed pursuant to  
 court decisions.*

**G**

Check box(es) which describe proposed use or construction (circle choice in parenthesis).  
 N = New A = Addition R = Remodel

	N	A	R
<b>Residential:</b>			
Single Family	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Two-family (duplex)(other)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-family	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Condominium / Townhouse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mobile home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Inclusions or Additions:</b>			
Garage (attached) (detached)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Porch (enclosed) (open)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pool (in) (above) ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Barn (residential) (agriculture)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Non-residential:</b>			
Commercial / Industrial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Stormwater:</b>			
Stormwater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Other:</b>			
Change in use	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renewal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

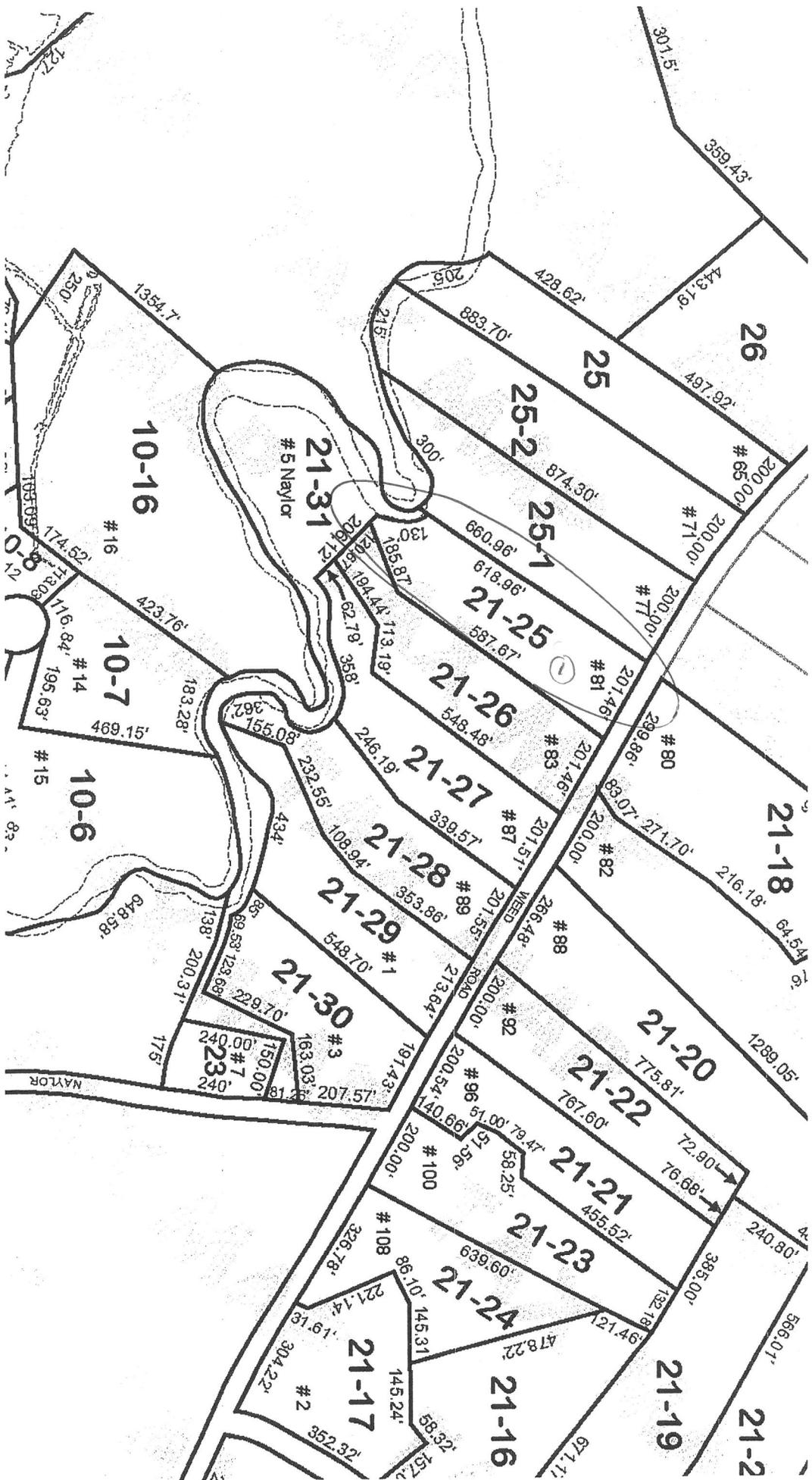
**Office Use Only**

Fees:	Type	Amount	Date Pd
	Permit	\$ <u>650</u>	<u>8/29/07</u>
	School	\$ <u>3252.75</u>	<u>8/29/07</u>
	Recreation	\$ <u>1004</u>	<u>1/1</u>
	Recording	\$ <u>1600</u>	<u>1/1</u>
	Other	\$ <u>75</u>	<u>1/1</u>

Building Permit  
 Approved  Rejected  Date 8/29/07  
 Issued to: River Wood Partnership LLC  
 Zoning Administrator: Ben Byr  
 Notes: SFD w/ Attached Garage  
Porch + Deck

C.O. Required Yes  No

**PERMIT VALID FOR TWELVE (12) MONTHS FROM DATE OF ISSUE**



127

250

10-16 #16

10-7 #14

10-6 #15

648.58'

NAYLOR

175'

240.00'

240.00'

1354.7'

423.76'

183.28'

232.55'

229.70'

150.00'

150.00'

#5 Naylor

21-31

21-27

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301.5'

359.43'

443.19'

497.92'

200.00'

200.00'

200.00'

428.62'

883.70'

874.30'

660.96'

618.96'

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# NEED ROAD



RIVERWOOD PARTNERSHIP, LLC

4049 Williston Road, Suite 8

South Burlington, VT 05403

www.sterlingconstructioninc.com

J & L TUMILDWILZ

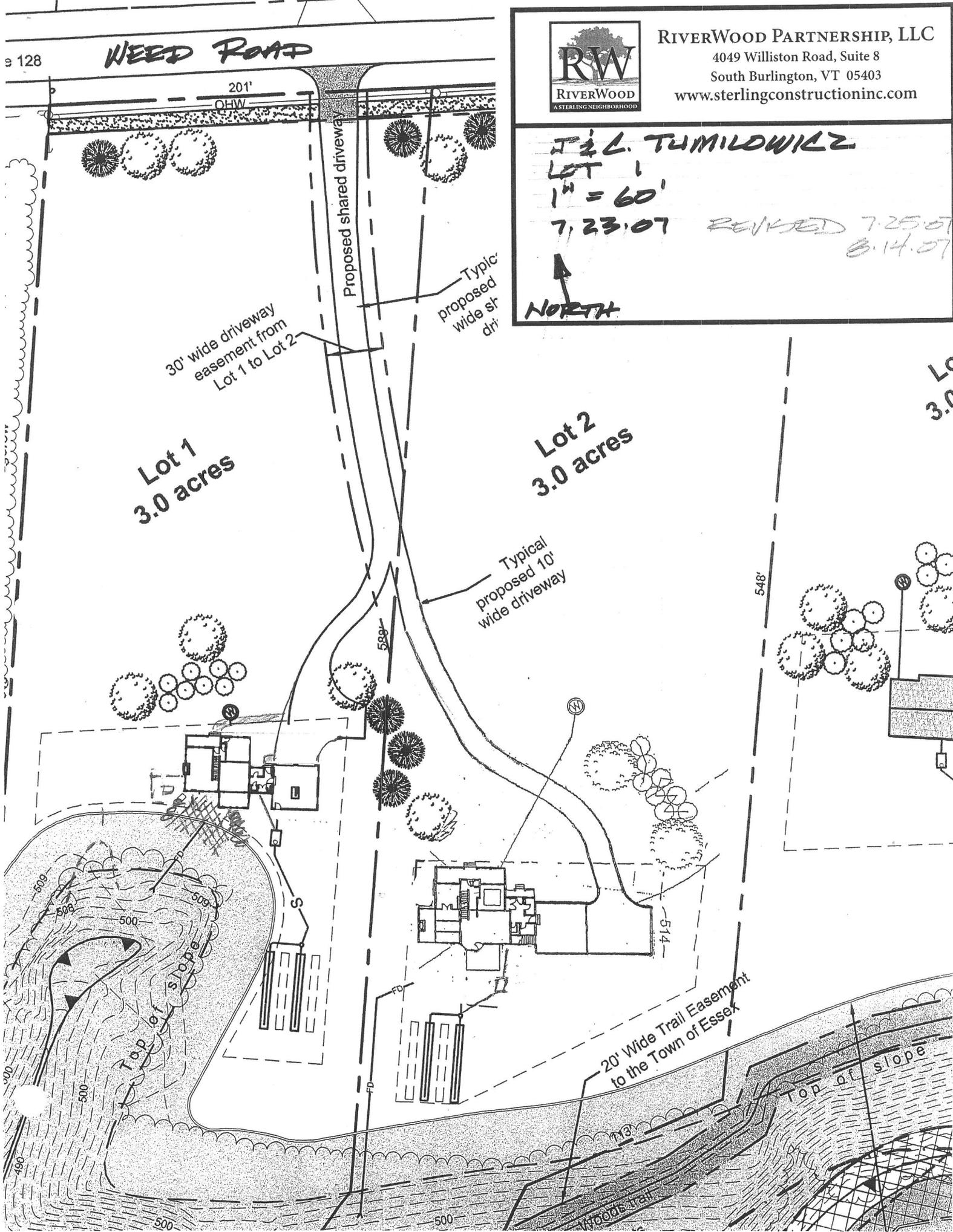
LOT 1

1<sup>st</sup> = 60'

7,23,07

REVISED 7.25.07

8.14.07



Lot 1  
3.0 acres

Lot 2  
3.0 acres

30' wide driveway easement from Lot 1 to Lot 2

Proposed shared driveway

Typical proposed wide sr dri

Typical proposed 10' wide driveway

20' Wide Trail Easement to the Town of Essex

Top of slope

Woods trail

548'

514'

588'

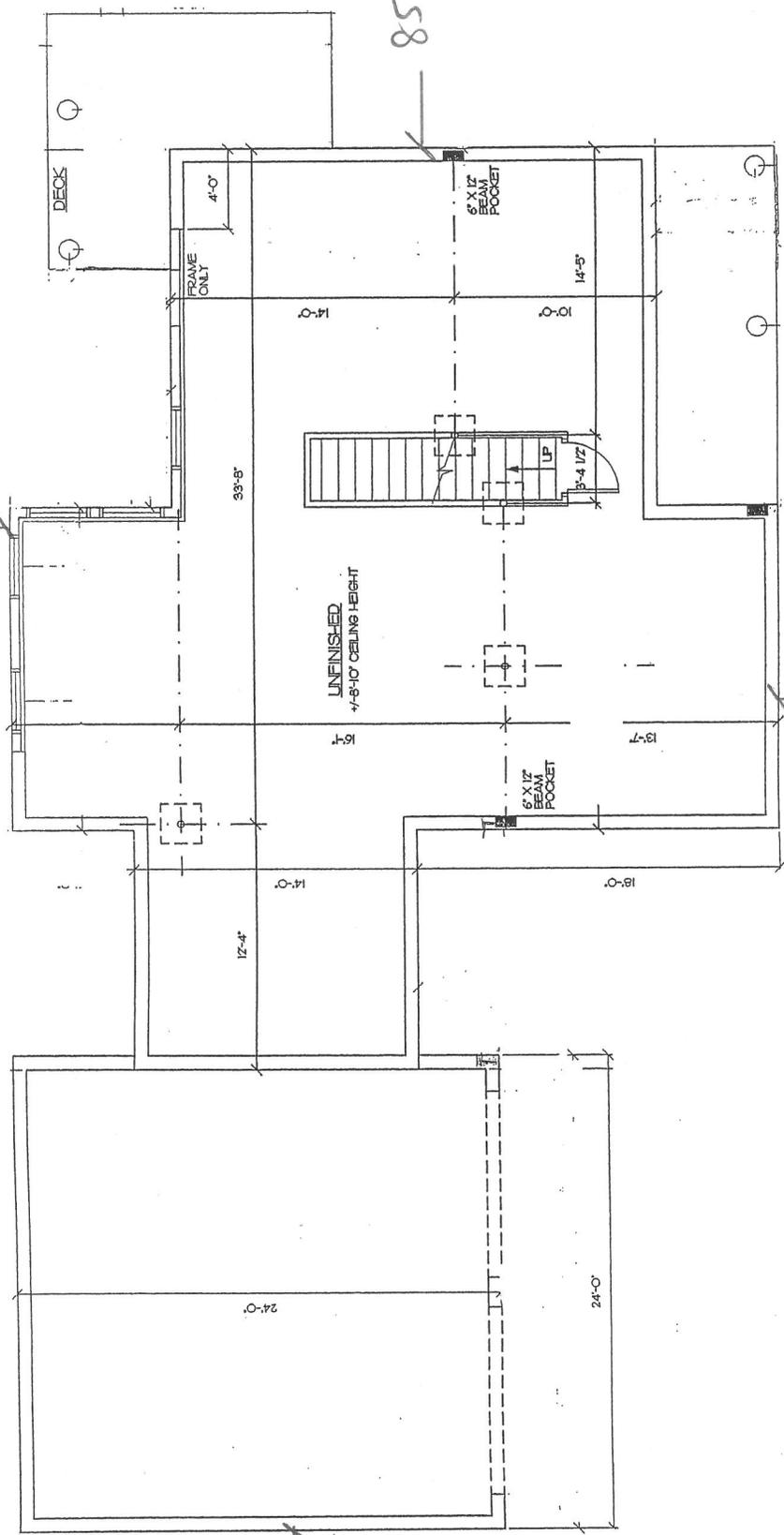
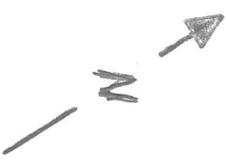
201'

OHW

Lot 3.0

F Diagram – Provide diagram here and include all setbacks

40'



RIVERWOOD  
LOT 1 TUMLOWICZ - FLOOR

DATE
SCALE 3/8" = 1'-0"
PROJECT NO. 1000000000
CONSTRUCTION INC.
1000 WILSON RD. S. BRIDGEMAN NY 12
1000 WILSON RD. S. BRIDGEMAN NY 12

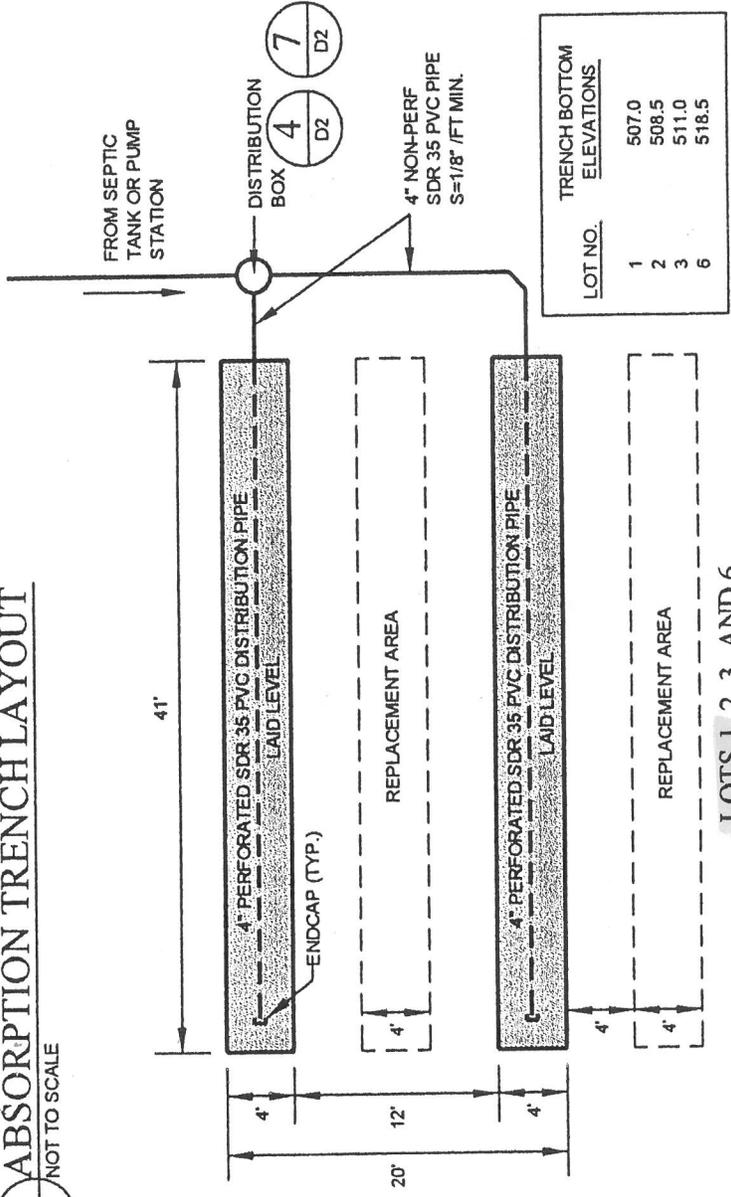


3. EA  
F V R V  
4. ST  
V D S E  
5. TR Y

9 ST NOT  
S1

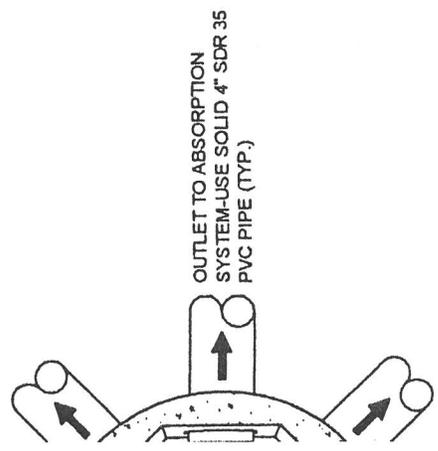
**8 ABSORPTION TRENCH LAYOUT**

S2 NOT TO SCALE

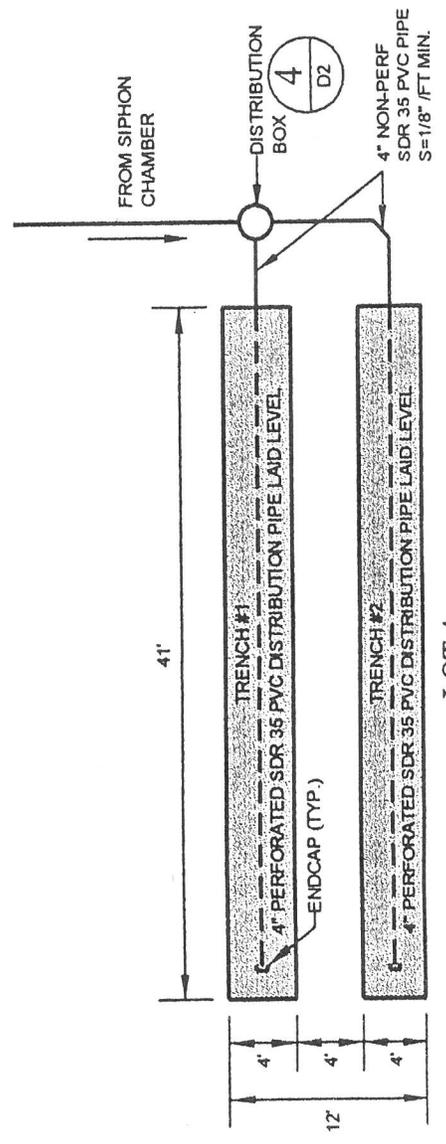
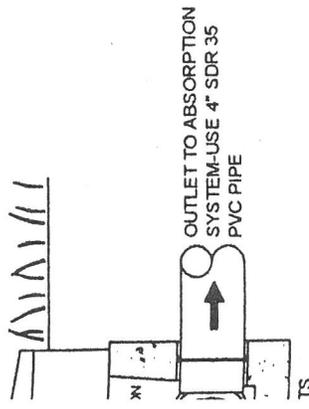


**LOTS 1, 2, 3, AND 6**

**IN BOX (FORCE MAIN) - LOT 6**

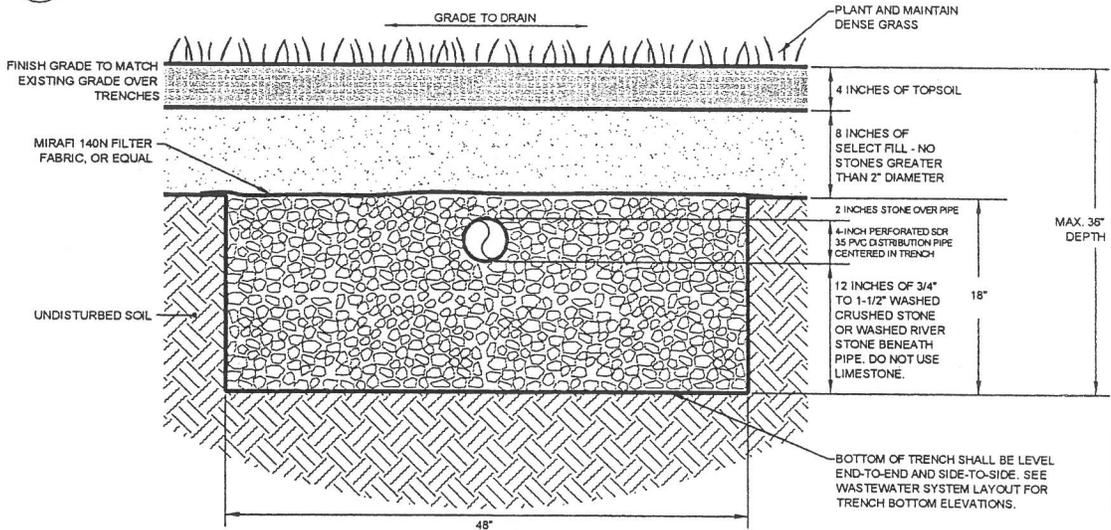


PROVIDE SURFACE ACCESS WITH INSULATION SUFFICIENT TO PREVENT FREEZING



**LOT 4**

**3 ABSORPTION TRENCH CROSS-SECTION - LOTS 1-4, and 6**  
 S1.D1 NOT TO SCALE



**ABSORPTION TRENCH SPECIFICATIONS**

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR STAKE OUT OF THE ABSORPTION SYSTEM.
2. 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.
3. ABOVE-GROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE THROUGHOUT THE ABSORPTION AREA. ONCE CLEARING OF THE LAND IS COMPLETED, THE AREA SHALL BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM DRIVING ON THE SOIL.
4. THE TRENCHES SHALL BE EXCAVATED AS SHOWN IN THE DETAIL. THE BOTTOM OF THE TRENCHES SHALL BE ABSOLUTELY LEVEL END-TO-END AND SIDE-TO-SIDE.
5. IMMEDIATELY BEFORE PLACEMENT OF CRUSHED STONE IN THE TRENCHES, THE SIDES AND BOTTOM SHALL BE RAKED TO REMOVE ANY SMEARED OR COMPACTED SOIL SURFACES.
6. 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).
7. THE PERFORATED 4" SDR 35 DISTRIBUTION PIPE SHALL BE LAID LEVEL ON TWELVE (12) INCHES OF 3/4 TO 1-1/2 INCH WASHED CRUSHED STONE. LIMESTONE SHALL NOT BE USED.
8. **TESTING:** THE ENGINEER MUST OBSERVE A TEST OF THE DISTRIBUTION BOX TO VERIFY THAT EFFLUENT IS BEING EQUALLY DIVIDED BETWEEN THE TRENCHES.
9. AFTER COMPLETION AND TESTING OF THE DISTRIBUTION BOX AND PIPES, THE PIPES SHALL COVERED WITH TWO (2) INCHES OF 3/4 TO 1-1/2 INCH CLEAN CRUSHED STONE. NONWOVEN GEOTEXTILE (MIRAFI 140N FABRIC, OR EQUAL) SHALL BE PLACED TO ENTIRELY COVER THE STONE. THE AREA SHALL BE COVERED WITH TWELVE (12) INCHES OF SELECT FILL, THE UPPER FOUR (4) INCHES OF WHICH SHALL BE TOPSOIL. THE AREA OVER AND AROUND THE WASTEWATER SYSTEM SHALL BE GRADED SUCH THAT THERE ARE NO AREAS CAPABLE OF PONDING WATER AND SUCH THAT THERE IS SUFFICIENT SLOPE TO ENSURE DRAINAGE.
10. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT INFORMATION AND CERTIFICATION THAT THE SYSTEM WAS INSTALLED IN ACCORDANCE WITH THE PLANS AND ALL PERTINENT APPROVALS AND PERMITS ISSUED FOR THE PROJECT.

**GENERAL CONSTRUCTION SPECIFICATIONS**

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE TOWN OF MILTON PUBLIC WORKS AND ZONING REGULATION REQUIREMENTS AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.
3. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING SOILS, VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THIS PROJECT UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS 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 SHALL BE REQUIRED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER, APPLY CALCIUM CHLORIDE OR SWEEP ASPHALT ROADS WITH A POWER BROOM AS DUST CONTROL.
6. ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
7. THE DESIGN ON THESE PLANS SHALL BE INSPECTED, AND THE BUILDINGS SHALL BE STAKED OUT BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS, INC., ESSEX JUNCTION, VERMONT, TO ENSURE COMPLIANCE WITH THE PLANS AND REQUIREMENTS. LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THESE PLANS AND SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED TO INSPECT THE WORKS AND TESTS IN PROGRESS.
8. FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC WILL BE REQUIRED AT NIGHT, DURING PEAK-HOURS, AND WHENEVER POSSIBLE DURING ACTUAL CONSTRUCTION ACTIVITIES. UNIFORMED TRAFFIC CONTROL OFFICERS SHALL DIRECT TRAFFIC DURING PEAK HOURS WHEN THERE IS ONE-WAY TRAFFIC OR WHEN DEEMED NECESSARY BY THE TOWN OR STATE. TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE ERECTED BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND TOWN STANDARDS.
9. TO ASSURE COMPLIANCE WITH THE PLAN(S), THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, COMMENCEMENT OF CONSTRUCTION OF BUILDINGS, BEGINNING INSTALLATION OF ANY UTILITIES, BRINGING IN ANY NEW GRAVEL FOR THE NEW PAVED AREAS, PAVING, AND FINAL INSPECTION.
10. THE HORIZONTAL AND VERTICAL SEPARATION FOR SEWER AND WATER LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE "TEN STATE STANDARDS - RECOMMENDED STANDARDS FOR WATER."
11. TOPSOIL SHALL BE STOCKPILED, SEEDED, AND MULCHED UNTIL REUSED. HAY BALES SHALL BE PLACED AND STAKED CONTINUOUSLY AROUND THE BOTTOM OF THE TOPSOIL PILES.
12. HEALTHY EXISTING TREES AS SHOWN ON THE SITE PLAN TO BE SAVED SHALL BE PROTECTED BY THE CONTRACTOR.
13. OPEN CUT AREAS SHALL BE MULCHED OUTSIDE OF ACTUAL WORK AREAS, AND HAY BALES SHALL BE EMPLOYED TO CONFINE SHEET WASH AND RUNOFF TO THE IMMEDIATE OPEN AREA AS ORDERED BY THE ENGINEER.
14. AT COMPLETION OF GRADING, SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
15. ALL FILL 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, UNLESS OTHERWISE SPECIFIED.
16. THE CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS NEEDED TO PREVENT SEDIMENTATION. THE HAYBALE DAMS, SILT FENCES, DITCHES, AND OTHER EROSION CONTROL DEVICES, SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR AFTER EVERY RAINFALL OF 1/2 INCH OR MORE UNTIL ALL DISTURBED AREAS HAVE BEEN GRASSED AND APPROVED BY THE ENGINEER. THE MAINTENANCE OF THE EROSION CONTROL DEVICES WILL INCLUDE REMOVAL OF ANY ACCUMULATED SEDIMENTATION.

**10 SHRUB PLANTING**  
 S1 NOT TO SCALE



**SILT FENCE SPECIFICATIONS**

URING OF CONSTRUCTION OR EARTHMOVING, ALL INSTALL A CONTINUOUS SILT FENCE AT THE E AS SHOWN ON THESE PLANS.

R FUNCTION, THE SILT FENCE SHALL BE 3. THIS INCLUDES DRIVING THE POSTS TO A KEYING THE SILT FENCE FABRIC 8 INCHES INTO IMPACTING THE SOIL OVER THE KEYED-IN RIC. USE ONLY MANUAL METHODS OF WETLANDS AND BUFFER ZONES.

ALL BE MAINTAINED THROUGHOUT THE HE PROJECT AND UNTIL ESTABLISHMENT OF ENT TO PREVENT SOIL EROSION. AFTER WORK E DISTURBED SOIL HAS BEEN STABILIZED, THE REMOVE ALL SILT FENCE FROM THE SITE.

E MAINTENANCE SHALL INCLUDE INSPECTIONS LS AND AFTER EVERY HEAVY RAINFALL TO ARE NO BROKEN POSTS, FABRIC TEARS, OTTOM EDGE OF THE FABRIC, OR EXCESSIVE TION. ANY DAMAGE OR DEFECTS SHALL BE ILY. SEDIMENT ACCUMULATION OF MORE THAN IGH OF THE FABRIC SHALL BE REMOVED AND RRIATE AREA OUTSIDE WETLANDS AND BUFFER

SHALL INSTALL SILT FENCE AT OTHER ID.

ES TO ARRIVE FROM NURSERY 1/2 METERS BETWEEN THE GRADE AND THE FIRST TREE O NOT PRUNE THE TREE AT

SE TRUNK

MULCH A MINIMUM OF 6" FROM TRUNK TO FOOT DIAMETER FROM TREE TRUNK

REMOVE WIRE MESH BASKET. CUT AND OPE AND/OR BURLAP WRAP FROM TOP 2/3 OF AFTER PLACEMENT IN TREE PIT. LOOSEN 1 BURLAP TO ALLOW FOR ROOT ENT

WRT EDGE OF EXCAVATION W/SHOVEL AND NT MIX WITH EXISTING SOIL TO PROVIDE BITION

IRE TREE AND REMOVE ALL NURSERY TAGS, I, ROPE, STRING AND SURVEYOR TAPE PRIOR IS TO PREVENT GIRDLING.

L BE NO WATERING BERM INSTALLED AROUND

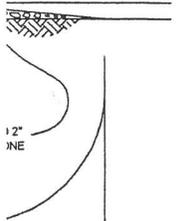
HALL CONSIST OF THE FOLLOMNG RATIO: 3 ITING SOIL, 1 PART TOPSOIL.

LL BE 3 TIMES AS WIDE AS ROOT BALL

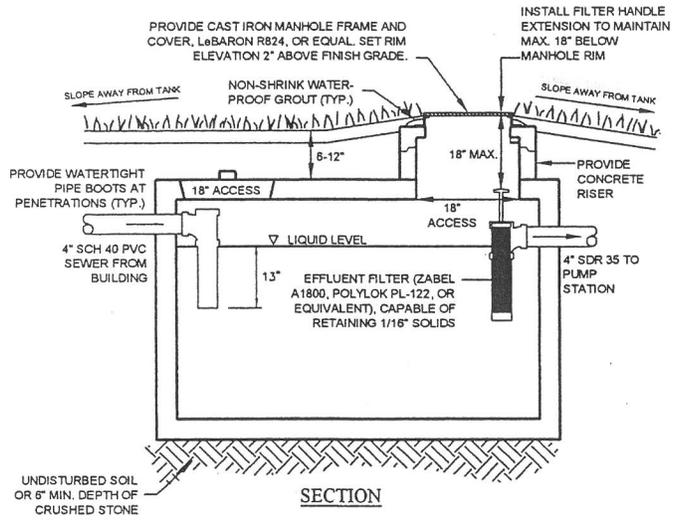
Y DEAD OR CRUSHED ROOTS AND DEAD OR ANCHES.

**HARED DRIVEWAYS**

PUBLIC RIGHT-OF-WAY



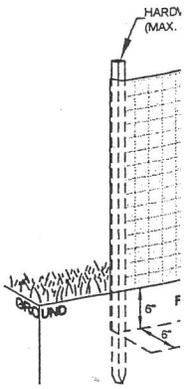
**1 1,000 GAL. PRECAST CONCRETE SEPTIC TANK**  
S2 NOT TO SCALE



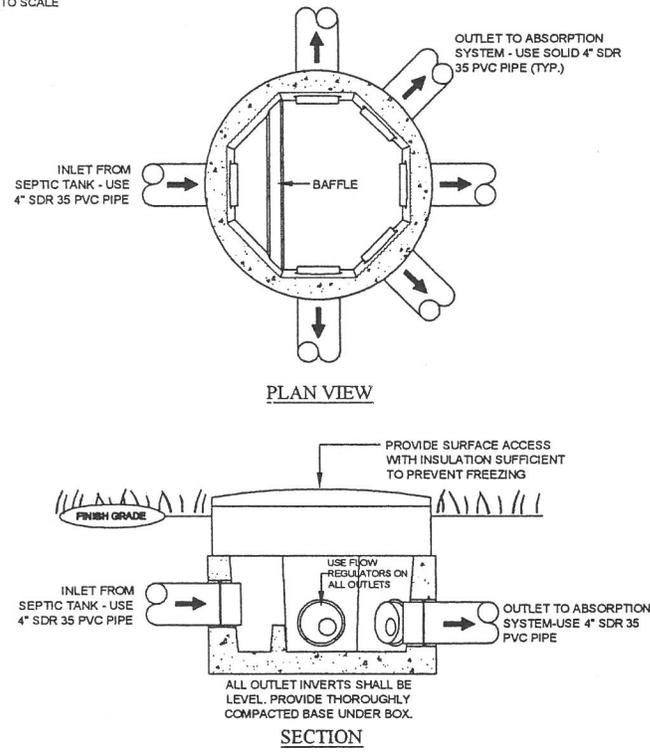
**SEPTIC TANK SPECIFICATIONS**

- DESIGN DATA: DESIGN FLOW = 490 GPD. USE A 1,000-GALLON SEPTIC TANK FOR FLOWS LESS THAN 667 GPD.
- LAMOUREUX & DICKINSON RECOMMENDS THE USE OF A WATERTIGHT, HEAVY-DUTY REINFORCED PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED BY S.T. GRISWOLD, CAMP PRECAST, OR APPROVED EQUAL, WITH ONE (1) 18" COVER AT THE OUTLET; 4,000 PSI CONCRETE, AND SET ON THOROUGHLY COMPACTED SUB-BASE. HOWEVER, THE OWNER MAY, AT HIS/HER OWN DISCRETION CHOOSE TO INSTALL AN ALTERNATIVE STRUCTURE THAT MEETS THE REQUIREMENTS OF APPENDIX 1-A, SECTION A-06 OF THE VERMONT ENVIRONMENTAL PROTECTION RULES-CHAPTER 1. THE TANK SHALL BE FITTED WITH AN EFFLUENT FILTER CAPABLE OF RETAINING 1/16" SOLIDS. SURFACE ACCESS SHALL BE PROVIDED FOR MAINTENANCE OF THE EFFLUENT FILTER AND PUMPING OF TANK. THE SURFACE ACCESS RISER AND LID SHALL PREVENT INFILTRATION BY SURFACE OR GROUND WATER.
- THE EXCAVATION MUST BE AT LEAST 12" WIDER AND LONGER THAN THE TANK DIMENSIONS.
- PROVIDE WATERTIGHT 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 STRUCTURE 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.

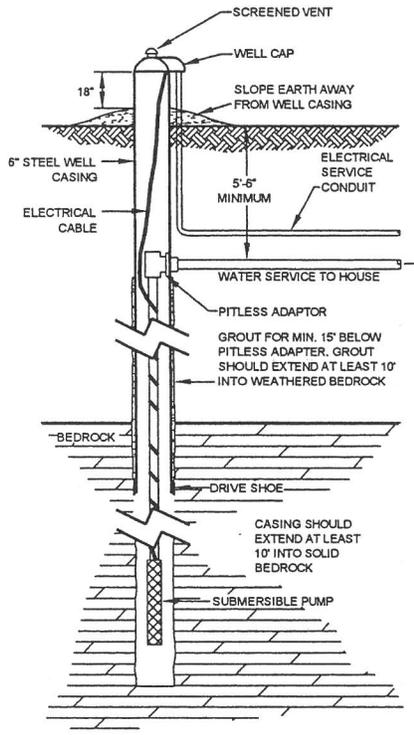
**2 TEMPORARY**  
S2 NOT TO SCALE



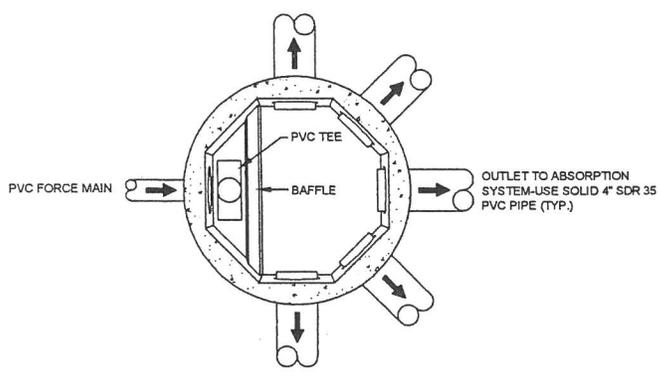
**4 PRECAST CONCRETE DISTRIBUTION BOX (GRAVITY) - LOTS 1-4**  
S2 NOT TO SCALE



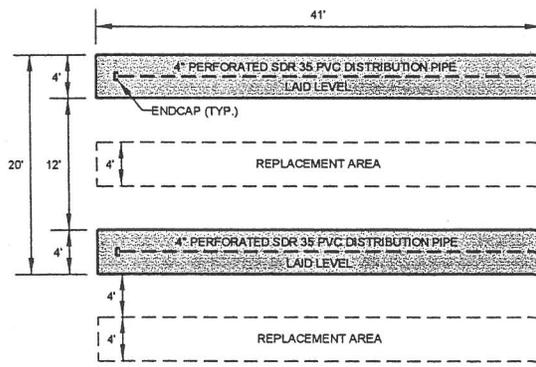
**5 TYPICAL DRILLED WELL**  
S2 NOT TO SCALE



**7 PRECAST CONCRETE DISTRIBUTION BOX (FORCE MAIN) - LOT 6**  
S2 NOT TO SCALE



**8 ABSORPTION TRENCH LAYOUT**  
S2 NOT TO SCALE



TO ACCOMMODATE THE REQUIRED EMERGENCY STORAGE VOLUME.

TIGHT, STEEL-REINFORCED, 4,000 PSI, 10 H-20 WHEEL LOADING, HOWEVER, THE STRUCTURE IN CONFORMANCE

ACCOMMODATE THE SPECIFIED TANK, THE STRUCTURE RECOMMENDATIONS.

RISK OF FREEZING OF EFFLUENT IN ORDER TO PROVIDING A DRAIN HOLE TO

LL BACKFILL MATERIAL AROUND THE TRENCH TO 95% OF MAXIMUM DRY DENSITY AS

THE NATIONAL ELECTRIC CODE AND

WITH THE PUMP STATION:

3. MINIMUM CAPACITY: 27 GPM @ 14 FT HEAD (EITHER 137, OR EQUAL).

PRESENT DURING START-UP. THE CONTRACTOR SHALL MAINTAIN A FULL OPERATIONAL CHECK OF THE PUMP AND INDICATOR LIGHTS. THE PUMP SHALL BE MAINTAINED AS PER THE PROJECT REQUIREMENTS.

**CONSTRUCTION SPECIFICATIONS**

THE TRENCH SHALL BE KEPT OFF THE AREA TO BE USED AS MUCH AS POSSIBLE TO PREVENT DAMAGE TO THE SOILS.

THE TRENCH SHALL BE CLOSELY CUT AND REMOVED FROM THE SURFACE THROUGHOUT THE SEWAGE DISPOSAL AREA. THE TRENCH SHALL BE PLOWED TO A DEPTH OF SEVEN (7) FEET BELOW THE LAND CONTOUR WITH THE PLOW TO PROVIDE A PROPER INTERFACE BETWEEN THE PLOWED SURFACE AND THE NATURAL SOIL. ONCE THE PLOWING OF THE TRENCH IS COMPLETE, THE TRENCH SHALL BE FENCED TO PREVENT VEHICLES FROM ENTERING THE TRENCH.

CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED ON THE PLOWED SURFACE. HOWEVER, AFTER PLACEMENT OF A 3 INCH SAND FILL OVER THE PLOWED AREA, LOW SPEED CONSTRUCTION EQUIPMENT MAY BE DRIVEN OVER TO EXPEDITE CONSTRUCTION. CONSTRUCTION SHALL BE INITIATED WHEN THE SOIL MOISTURE

IS AT LEAST 10% SAND SHALL BE PLOWED TO A DEPTH OF SEVEN (7) FEET BELOW THE LAND CONTOUR AND MOUND SAND. THE MOUND SAND SHALL BE PLACED AS SHOWN IN THE DETAIL. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL FURNISH A CURRENT SIEVE ANALYSIS OF THE SAND TO BE USED, SUBJECT TO APPROVAL BY THE TOWN ENGINEER.

THE TRENCHES SHALL BE ABSOLUTELY VERTICAL AND 5-TO-SIDE.

THE SIDES OF EXCAVATIONS ENTERED BY PERSONNEL SHOULD BE SHEETED OR SLOPED TO THE ANGLE OF REPOSE (SEE ITEM 2 OF GENERAL SPECIFICATIONS).

CONSTRUCTION SHALL BE INITIATED IMMEDIATELY AFTER TRENCH EXCAVATION IS COMPLETE. THIS WILL REQUIRE THAT THE ENGINEER BE NOTIFIED PRIOR TO COMPLETION OF TRENCH EXCAVATION (SEE ITEM 3).

THE FORCE MAIN SHALL BE RIGID PLASTIC PIPE, AS SPECIFIED. THE PIPE SHALL HAVE A 2 INCH SLOPE UPWARD (WITH THE EXCEPTION OF THE FORCE MAIN DISTRIBUTION PIPE WHICH WILL BE DIRECTED TO THE TRENCH AT THE END OF THE PIPE. THE SIZE AND ALL BE AS INDICATED IN THE DETAIL. ALL JOINTS AND CONNECTIONS SHALL BE LAID LEVEL. ALL JOINTS AND CONNECTIONS SHALL BE LAID LEVEL.

**DESIGN DATA**

1. IT IS THE OPINION OF THE ENGINEER THAT SOIL CONDITIONS WITHIN THE PROPOSED SEWAGE DISPOSAL AREAS MEET THE REQUIREMENTS OF THE VERMONT ENVIRONMENTAL PROTECTION RULES-CHAPTER 1 FOR AN ON-SITE WASTEWATER SYSTEMS.

2. THE FOLLOWING MINIMUM ISOLATION DISTANCES SHALL BE MAINTAINED FROM THE DISPOSAL AREA TO:

DRILLED WELL (UP-SLOPE)	100 FT
DRILLED WELL (DOWNSLOPE)	200 FT
WATER MAIN	50 FT
PROPERTY LINE	25 FT
BUILDING (DOWNSLOPE, WITH FOOTING DRAIN)	75 FT
BUILDING (UP-SLOPE, WITH FOOTING DRAIN)	20 FT
DRIVEWAYS	10 FT
SLOPES STEEPER THAN 30%	25 FT

(REFER TO SECTION 1-503 OF THE VERMONT ENVIRONMENTAL PROTECTION RULES-CHAPTER 1 FOR A COMPLETE LIST OF REQUIRED ISOLATION DISTANCES).

**3. BASIS OF DESIGN**

**LOTS 1, 2, 3, 4, AND 6**

SEWAGE FLOWS, 4 BEDROOMS =	490 GPD
LOADING RATE, Q =	1.5 GPD PER SQ FT
ABSORPTION AREA REQUIRED: 490/1.5 =	327 SQ FT

USE AN ABSORPTION TRENCH SYSTEM WITH TWO (2) 4' WIDE BY 41' LOT TRENCHES; 328 SQ FT OF ABSORPTION AREA PROVIDED.

**LOT 5**

SEWAGE FLOWS, 4 BEDROOMS =	490 GPD
LOADING RATE, Q =	1.0 GPD PER SQ FT
ABSORPTION AREA REQUIRED: 490/1.0 =	490 SQ FT

USE A MOUND SYSTEM WITH THREE (3) 4' WIDE BY 41' LONG ABSORPTION TRENCHES; 492 SQ FT OF ABSORPTION AREA PROVIDED; BASAL AREA PROVIDED IS 1,728 SQ FT.

4. SUBMITTALS BY CONTRACTOR REQUIRED: MEASURED TIES TO THE CORNERS OF THE ABSORPTION TRENCHES AND BENDS IN THE SEWER FORCE MAIN.

**INSPECTION**

1. THIS DESIGN MUST BE INSPECTED BY LAMOUREUX & DICKINSON CONSULTING ENGINEERS, INC., ESSEX JUNCTION, VERMONT TO ENSURE COMPLIANCE WITH THESE PLANS. LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND THE DESIGN INTENT THAT THE PLANS CONVEY, AND FROM FAILURE TO HAVE BEEN NOTIFIED BY THE CONTRACTOR TO INSPECT THE WORKS AND TESTS IN PROGRESS.

2. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR NOTIFYING THE ENGINEER AND THE TOWN FOR INSPECTION OF THE WASTEWATER SYSTEM AT APPROPRIATE STAGES OF CONSTRUCTION. THE REQUIREMENTS FOR CONTACTING THE ENGINEER ARE LISTED BELOW. THE CONTRACTOR SHALL ALSO DETERMINE THE TOWN'S REQUIREMENTS FOR INSPECTION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER AND THE TOWN FOR INSPECTION OF THE WASTEWATER SYSTEM AT THE APPROPRIATE STAGES OF CONSTRUCTION. THE REQUIREMENTS FOR CONTACTING THE ENGINEER ARE LISTED BELOW. THE CONTRACTOR SHALL ALSO DETERMINE THE TOWN'S REQUIREMENTS FOR INSPECTION.

4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS IN ADVANCE FOR INSPECTION OF EACH OF THE FOLLOWING ITEMS:

**LOTS 1, 2, 3, 4, AND 6**

- THE EXCAVATED TRENCHES BEFORE PLACING STONE AND PIPE
- THE WASTEWATER SYSTEM COMPONENTS BEFORE COVERING
- ON LOT 6, THE FUNCTION OF THE PUMP STATION
- FINAL GRADING OVER THE WASTEWATER SYSTEM COMPONENTS

**LOTS 4 AND 6**

- THE PLOWED SURFACE PRIOR TO PLACING MOUND SAND
- THE FORCE MAIN PRESSURE TEST
- THE CONSTRUCTION OF THE MOUND SYSTEM, AND FUNCTION OF THE PUMP STATION AND DISTRIBUTION NETWORK
- FINAL GRADING OVER THE WASTEWATER SYSTEM COMPONENTS

**GENERAL SPECIFICATIONS**

1. 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 LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON.

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

3. 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; AND IN ANY CASE, THE CONTRACTOR SHOULD WORK IN STRICT COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STANDARDS.

4. 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.

5. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS 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.

6. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND SHALL BE IMMEDIATELY SEEDED AND MULCHED/MATTED AFTER COMPLETION OF GRADING. 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 REMULCHED OR REMATTED AS SOON AS WEATHER PERMITS IN THE SPRING.

7. ALL SLOPES, DITCHES, AND DISTURBED AREAS SHALL BE GRADED SMOOTH AND BE FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.

8. ALL FILL OR BACKFILL SHALL BE PLACED IN 6 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D698 STANDARD PROCTOR.

**MAINTENANCE**

1. 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 DEPTH OF SLUDGE IS GREATER THAN 6 INCHES OR THE DEPTH OF SCUM IS GREATER THAN 3 INCHES.

2. ONCE EVERY 6 MONTHS, OR MORE OFTEN AS NEEDED, THE EFFLUENT FILTER SHALL BE CLEANED BY HOISING IT OFF INTO THE SEPTIC TANK.

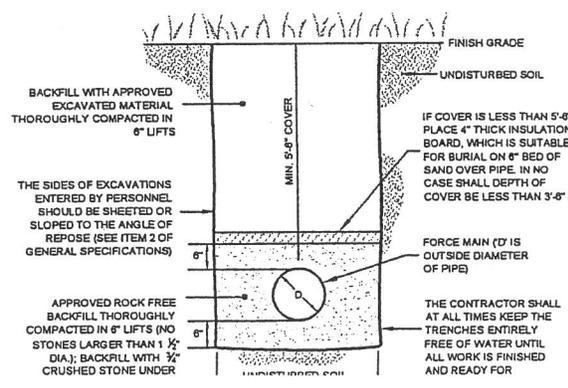
3. ONCE PER YEAR, THE PUMP STATION AND ABSORPTION FIELD SHALL BE INSPECTED BY A QUALIFIED PERSON. THE PROPER FUNCTIONING OF THE SYSTEM COMPONENTS SHALL BE VERIFIED AND ANY NECESSARY REPAIRS, CLEANING, OR OTHER MAINTENANCE SHALL BE DONE.

4. 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, FEMININE NAPKINS AND TAMPONS, CONDOMS, FATS AND OILS, PESTICIDES, DISINFECTANTS, STRONG ACIDS AND BASES, PAINTS, SOLVENTS, SOIL, AND SALTS. DO NOT USE GARBAGE DISPOSALS.

5. 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. INSTALL AND MAINTAIN WATER-CONSERVING FIXTURES (TOILETS WITH MAX. 1.6 GALLON FLUSH AND SHOWERHEAD AND FAUCET AERATORS WITH MAX. 2 GALLON PER MINUTE FLOW).

6. THIS WASTEWATER SYSTEM DESIGN INCLUDES ONE OR MORE STRUCTURES THAT MEET THE DEFINITION OF A "CONFINED SPACE". UNDER NO CIRCUMSTANCES SHALL A CONFINED SPACE BE ENTERED EXCEPT IN STRICT CONFORMANCE WITH OSHA REQUIREMENTS.

**5 FORCE MAIN TRENCH**  
S2 NOT TO SCALE



September 26, 2007

Mr. Ernest Christianson  
Regional Engineer  
Wastewater Management Division  
111 West Street  
Essex Junction, VT 05452

RE: RiverWood (formerly Rozzi Real Estate), Weed Road, Essex, Vermont  
Wastewater System and Potable Water Supply Permit #WW-4-2478  
Lot #1 construction statement

Dear Ernie:

We are writing on behalf of Sterling Construction regarding the construction of a new primary wastewater system and drilled well on Lot #1 of the above-referenced project located on Weed Road in Essex. Based on our observations on September 25 and 26, 2007, we found the wastewater system and well location to be installed substantially in accordance with the approved plans and offer the following statement as required by Condition 10 of the above referenced permit:

"I hereby certify that, in the exercise of my reasonable professional judgment, the installation-related information submitted is true and correct and the potable water supply and wastewater system were installed in accordance with the permitted design and all permit conditions, were inspected, were property tested, and have successfully met those performance tests."

If you have any questions or need additional information, please don't hesitate to contact me.

Sincerely,



Doug Goulette  
*Professional Engineer*  
*Licensed Designer Class 1*

cc: Collin Frisbie  
Brian Bigelow, Town of Essex Zoning Administrator

file 2007-126

TOWN OF ESSEX, VERMONT  
APPLICATION FOR CURB CUT / UTILITY PERMIT

Pursuant to Title 19 V.S.A. Section 43. Application for Curb Cut and Utility Installation in Town Right-of-Way.

All applications for curb cuts and utility installations shall be submitted to the Director of Public Works/Town Engineer for review. Applicants shall submit the information requested on this form and any additional information requested by the Director of Public Works /Town Engineer for a clear understanding of this application. The permit is issued under authority of the Town Manager in accordance with Section 601 of the Town Charter and 24 V.S.A. paragraph 1236 (2)

Application No. 1 Date \_\_\_\_\_

Property Address: 81 AND 83 WEEB ROAD  
Owner Address: 4049 WILLISTON ROAD  
50. BARRINGTON, VT. 05403

Owner Name: RIVERWOOD PARTNERSHIP LLC.  
Phone Number - (w) 802-864-0600 (h) \_\_\_\_\_

Town Tax Map # 021-025-081 Parcel # 021-026-083

Application is for: (check one)

A) New Curb Cut  B) Utility Installation: Overhead \_\_\_\_\_ Underground \_\_\_\_\_

Please use attached diagram to describe location and type of installation.

Comments by Director of Public Works/Town Engineer:

Culvert: Yes \_\_\_\_\_ No  NA  
Culvert Size: \_\_\_\_\_  
Diameter  
(18 inch minimum)

Water Bar(s): Yes \_\_\_\_\_ No   
Total Length of Culvert: \_\_\_\_\_  
(30 foot minimum)

\*\*\*\* FOR OFFICE USE ONLY \*\*\*\*

Signature of Owner

*[Handwritten Signature]*

Fee Paid NA

Approved:  Rejected: \_\_\_\_\_ Date 9 Nov 06

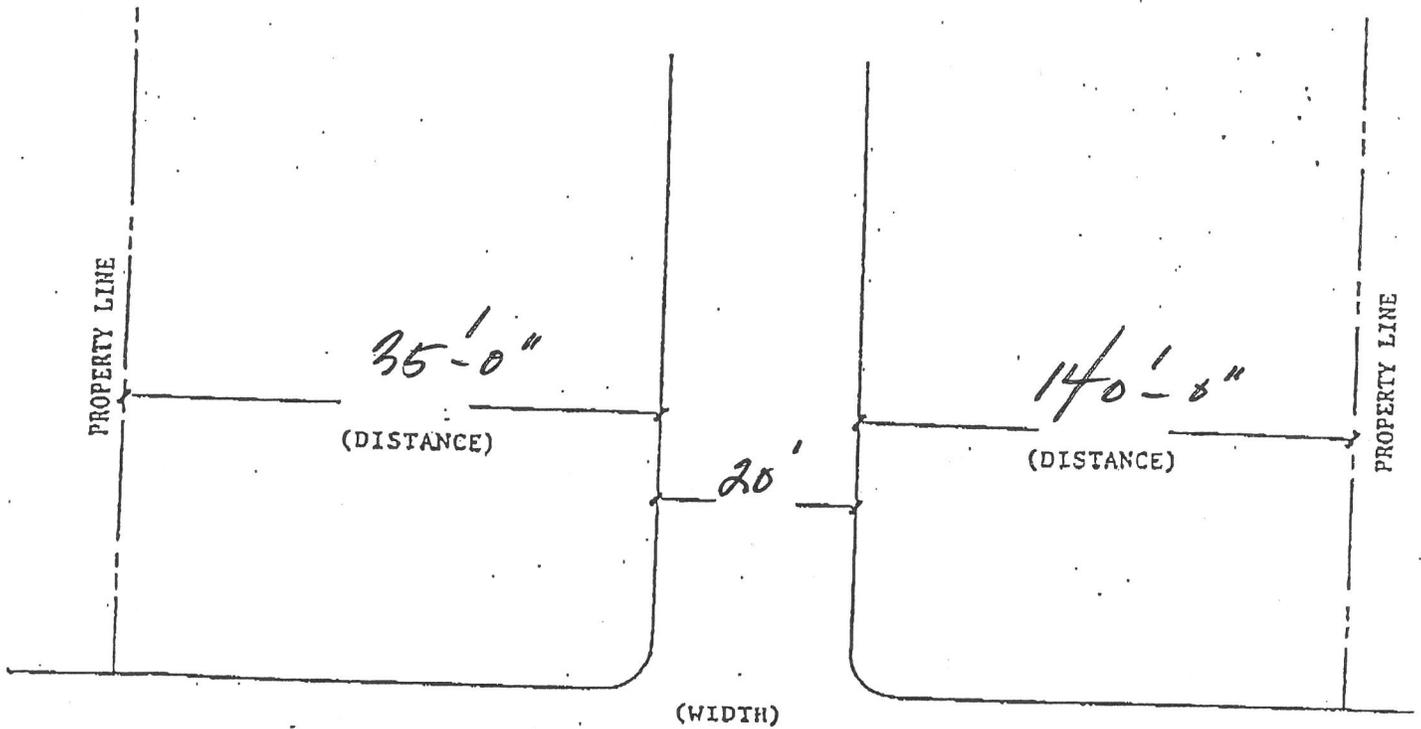
*[Handwritten Signature]*

Per Authority of the Town Manager by the  
Director of Public Works/Town Engineer

*See notes on pg 2*

1. Culvert must be HIGH DENSITY POLYETHYLENE (HDPE) PIPE
2. Culvert will be purchased by Applicant
3. Culvert will be purchased and installed by the applicant. The Town of Essex Department of Public Works will inspect.

Note: A MINIMUM OF 24-HOURS NOTICE IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN 24 HOURS OF COMPLETION, THE APPLICANT IS REQUIRED TO NOTIFY THE DIRECTOR OF PUBLIC WORKS/TOWN ENGINEER FOR INSPECTION PURPOSES.



WEEKS ROAD  
STREET NAME

Comments and / or special instructions from Director of Public Works / Town Engineer:

- (1) ~~the~~ shared driveway to be constructed at the location shown on the approved Shedmen Site Plan, sheet S1 and in conformance with the standard plans & details shown on the approved plans.
- (2) Special attention is directed to the construction standard on sheet D2

NOTE: A MINIMUM OF 24 HOURS IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHIN 24 HOURS OF COMPLETION, THE APPLICANT IS REQUIRED TO NOTIFY THE DIRECTOR OF PUBLIC WORKS / TOWN ENGINEER FOR INSPECTION PURPOSES.