

**Shoreland Permit Application**

for a **Shoreland Protection Permit** under  
Chapter 49A of Title 10, § 1441 *et seq.*

**For Shoreland Permitting Use Only**

Application Number: 249



VERMONT DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION  
**WATERSHED  
MANAGEMENT DIVISION**  
LAKES & PONDS PROGRAM

**Public Notice:** At the same time this application is filed with Shoreland Permitting, a copy of this application must be provided to the municipal clerk for posting in the municipality in which the project is located.

Submission of this application constitutes notice that the person in Section A intends to create impervious surface and/or cleared area within the Protected Shoreland Area, and certifies that the project will comply with Chapter 49A of Title 10, § 1441 *et seq.* All information required on this form must be provided, and the requisite fees (Section G) must be submitted made payable to the State of Vermont, to be deemed complete. Refer to *The Vermont Shoreland Protection Act - A Handbook for Shoreland Development* and related instructions for guidance in completing this application.

**A. Parcel Information**

1. Landowner's Name:

2a. Physical Address (911 Address):

2b. Municipality:

2c. Zip:

3. SPAN\*:

4. Phone:

5. Email:

6. Name of lake/pond:

7. Total shore frontage: (feet)

8. Was the parcel of land created before July 1, 2014?  Yes  No

9. Are there wetlands associated with this parcel?  Yes  No

Contact the Wetlands Program: (802) 828-1535 or [www.anr.state.vt.us/dec/waterq/wetlands.htm](http://www.anr.state.vt.us/dec/waterq/wetlands.htm).

10. Is there a lake encroachment permit associated with this parcel?  Yes  No Permit #: \_\_\_\_\_

Contact Lake Encroachment Permitting: [www.anr.state.vt.us/dec/waterq/permits/html/pm\\_encroachment.htm](http://www.anr.state.vt.us/dec/waterq/permits/html/pm_encroachment.htm)

11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): (square feet)

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix C, Determining Lakeside Zone & PSA

12. What is the surface area of existing impervious surface on your parcel within the PSA: (square feet)

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface

13. What is the surface area of existing cleared area on your parcel within the PSA: (square feet)

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

**B. Applicant Contact Information**

1. Name:

2a. Mailing Address:

2b. Municipality:

2c. State:

2d. Zip:

3. Phone:

4. Email:

**C. Application Preparer Information** (If the individual preparing the application is not the landowner.)

1. Name:

2a. Mailing Address:

2b. Municipality:

2c. State:

2d. Zip:

3. Phone:

4. Email:

\*SPAN: The "School Parcel Account Number" is required for your application to be deemed complete. It can be obtained from your property tax bill. If you cannot locate your property tax bill, please obtain this information from your Town Clerk. SPAN is a unique identification number for each parcel of property in the State of Vermont consisting of eleven digits. The first three digits identify the town; the next three digits identify the school district; and the last five digits represent the unique parcel or property.

**D. Project Description**

1. Describe the proposed project. For this application to be considered administratively complete you must attach site plans that denote existing and proposed cleared areas and impervious surface and their distances from mean water level, no fewer than three photos of the project area, and dimensions and associated surface areas of cleared areas and impervious surfaces.

2. For developed parcels, how far is the existing habitable structure from Mean Water Level \_\_\_\_\_ (feet), **and** how far will new cleared area or impervious surface be from MWL \_\_\_\_\_ (feet)?

**OR**

For undeveloped parcels, how far will new cleared area or impervious surface be from MWL \_\_\_\_\_ (feet)?

See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix A – Estimating Mean Water Level

3. Can all new cleared area or impervious surface be set back at least 100 feet from MWL?  Yes  No  
If no, explain why below (attach support information as needed):

4a. What is the slope of the project site area: \_\_\_\_\_ %  
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix B, Determining Slope

4b. Is the slope of the project area less than 20%?  
 Yes  No If yes, skip 4c.

4c. If no above (4b), describe the measures taken to ensure the slope is stable, resulting in minimal erosion and impacts to water quality (attach support information as needed):

5a. What is the surface area of new impervious surface associated with this project: \_\_\_\_\_ (square feet)  
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F Calculating Percent Impervious Surface

5b. What is the total resulting impervious surface after completion of the project and prior to implementation of best management practices: \_\_\_\_\_ (square feet) **and** is that 20% or less of the parcel area within the PSA?  Yes  No  
If yes, skip 5c.

5c. If no above (5b), describe the best management practices used to manage, treat and control erosion from stormwater from the portion of impervious that exceeds 20% (attach support information as needed).

<p>6a. What is the surface area of new cleared area associated with this project: _____ (square feet) See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing</p>	<p>6b. What is the total resulting cleared area* after completion of the project and prior to implementation of best management practices: _____ (square feet) <b>and</b> is that 40% or less of the parcel area within the PSA? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, skip 6c. *Total cleared area includes impervious surface area.</p>
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6c. If no above (6b), describe the best management practices used to provide erosion control, bank stability, and wildlife habitat functionally equivalent to clearing less than 40% (attach support information as needed).

**E. Landowner Certification**  
As APPLICANT, I hereby certify that the statements presented on this application are true and accurate and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the Shoreland Protection Act, 10 V.S.A. Chapter 49A, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant/Landowner Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**F. Application Preparer Certification (if applicable)**  
As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**G. Permit Application Fees**

Administrative Fee: \$125.00		125.00
Impervious Area Fee: \$0.50 per square foot	New impervious area (5a.) _____ x 0.5	\$
<b>Total:</b>		\$

**Submit this form and application fee, payable to:**

**State of Vermont  
Vermont Department of Environmental Conservation  
Watershed Management Division  
Shoreland Permitting  
1 National Life Drive, Main 2  
Montpelier, VT 05620-3522**

Direct all correspondence or questions to Shoreland Permitting at:  
ANR.WSMDSshoreland@state.vt.us

For additional information visit: [www.watershedmanagement.vt.gov](http://www.watershedmanagement.vt.gov)



<p>6a. What is the surface area of new cleared area associated with this project: <u>0.00</u> (square feet) See The Vermont Shoreland Protection Act -- A Handbook for Shoreland Development, Appendix E: Calculating Percent Clearing</p>	<p>6b. What is the total resulting cleared area* after completion of the project and prior to implementation of best management practices: <u>13,050.00</u> (square feet) and is that 40% or less of the parcel area within the PSA? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, skip 6c. *Total cleared area includes impervious surface area.</p>
<p>6c. If no above (6b), describe the best management practices used to provide erosion control, bank stability, and wildlife habitat functionally equivalent to clearing less than 40% (attach support information as needed).</p>	

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As APPLICANT, I hereby certify that the statements presented on this application are true and accurate and recognize that by signing this application, I agree to complete all aspects of the project as authorized. I understand that failure to comply with the foregoing may result in violation of the Shoreland Protection Act, 10 V.S.A. Chapter 49A, and the Vermont Agency of Natural Resources may bring an enforcement action for violations of the Act pursuant to 10 V.S.A. chapter 201.

Applicant/Landowner Signature: *Kimberly Phinney* Date: 01/20/2016

**F. Application Preparer Certification (if applicable)**

As APPLICATION PREPARER, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Application Preparer Signature: *Colin Swift* Date: 01/20/2016

**G. Permit Application Fees**

Administrative Fee \$125.00		125.00
Impervious Area Fee: \$0.50 per square foot	New impervious area (Sq. Ft.) <u>750.00</u> x 0.5	\$ 375.00
<b>Total:</b>		<b>\$ 500.00</b>

**Submit this form and application fee, payable to:**

State of Vermont  
Vermont Department of Environmental Conservation  
Watershed Management Division  
Shoreland Permitting  
1 National Life Drive, Main 2  
Montpelier, VT 05620-3522

Direct all correspondence or questions to Shoreland Permitting at  
ANR.WSMDSshoreland@state.vt.us

For additional information visit: [www.watershedmanagement.vt.gov](http://www.watershedmanagement.vt.gov)





Aprox. project site. House in background is neighboring structure, not to be involved in this project.





Aprox. project site.





Neighboring structure.



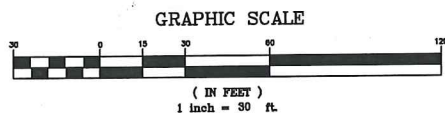
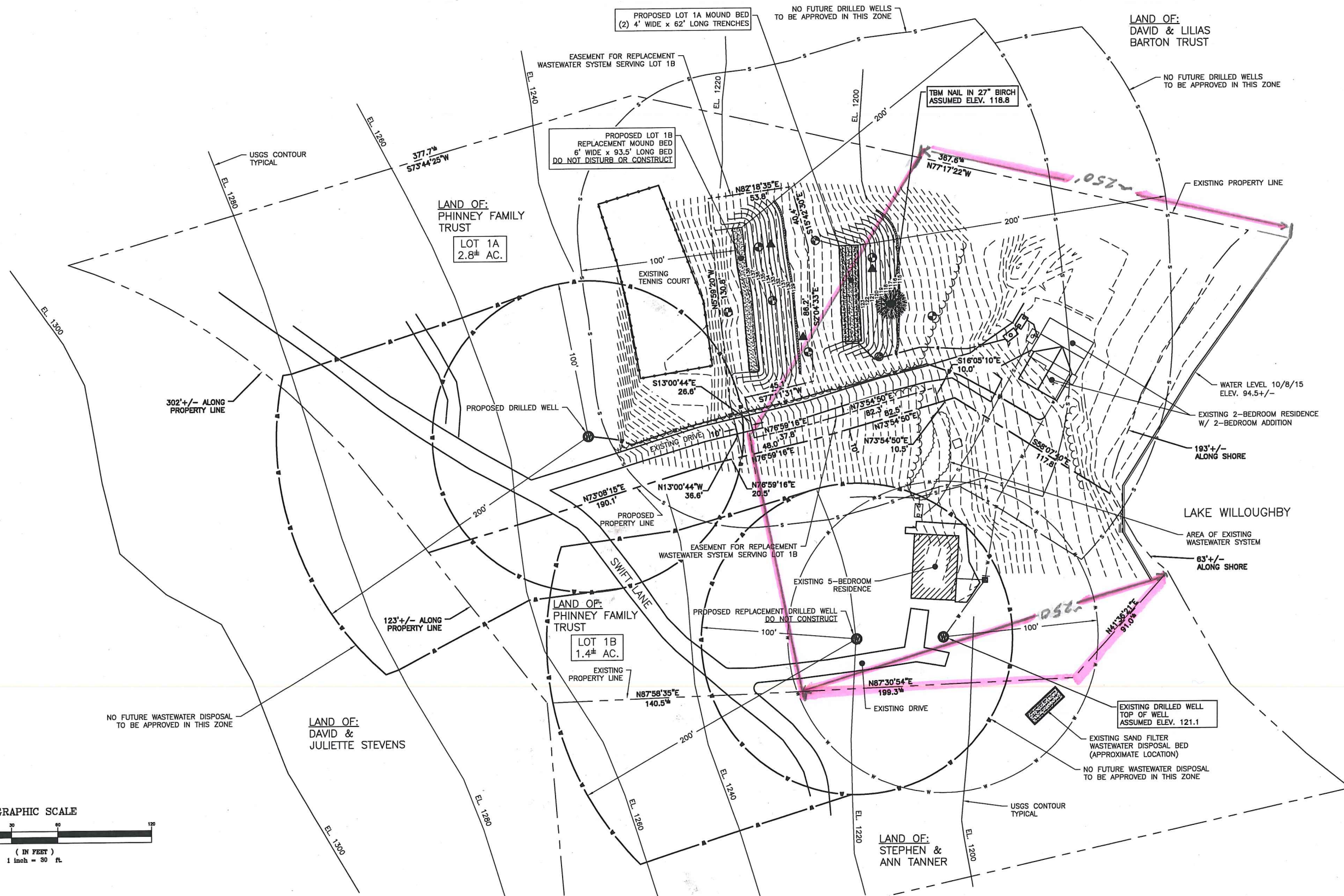


Lawn area between project site (on right) and neighboring house (on left).





MAGNETIC NORTH



PROPERTY LINE NOTE:  
EXISTING OVERALL LOT PERIMETER PROPERTY LINES OBTAINED FROM A PROGRESS SURVEY PLOT PREPARED BY TRULINE LAND SURVEYORS, DATED DECEMBER 4, 2003. LOT LINES & PERIMETER DIMENSIONS SUBJECT TO CLOSURE ADJUSTMENTS BY A VT. REGISTERED LAND SURVEYOR.

" THE PROPERTY LINES, EASEMENTS, AND OTHER REAL PROPERTY DESCRIPTIONS PROVIDED IN THIS PERMIT APPLICATION ARE FOR THE USE OF THE ANR ONLY. THEY DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. § 2502(4), AND SHALL NOT BE USED IN LIEU OF A SURVEY AS THE BASIS OF ANY LAND TRANSFER OR ESTABLISHMENT OF ANY PROPERTY RIGHT"

**PLAN**  
**OVERALL PROPERTY**  
SCALE: 1" = 30 FT.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**Lawes-Donato Engineering**  
 Act 250 \* Water/Wastewater \* Building Design  
 Site Planning \* Permitting \* Stormwater  
 968 Center St., P.O. Box 637 Lyndonville, Vermont 05851 802-626-0451  
 103 Church St. Barton, Vermont 802-525-4900

PREPARED FOR:  
**PHINNEY FAMILY TRUST**  
 PROPOSED 2-LOT SUBDIVISION  
 OVERALL SITE PLAN  
 WESTMORE, VERMONT

Date: 12-16-15  
 Scale: As Shown  
 Drawn By: F.D.  
 Checked By: D.A.L.  
 DRWG. NO. **CO**

PSA



**CONSTRUCTION NOTES:**

- ABOVE GROUND VEGETATION SHALL BE CLOSELY CUT AND REMOVED FROM THE GROUND SURFACE THROUGHOUT THE AREA TO BE USED FOR THE PLACEMENT OF THE FILL MATERIAL. THE AREA SHALL BE PLOWED TO A DEPTH OF SEVEN (7) TO EIGHT (8) INCHES, PARALLEL TO THE GROUND CONTOUR WITH THE PLOW THROWING THE SOIL UPSLOPE TO PROVIDE A PROPER INTERFACE BETWEEN THE FILL AND THE NATURAL SOILS. TREE STUMPS SHOULD BE CUT FLUSH WITH THE SURFACE OF THE GROUND AND THE ROOTS SHOULD NOT BE PULLED. ONCE THE PLOWING IS COMPLETED, THE AREA SHOULD BE FENCED TO PREVENT VEHICLES AND EQUIPMENT FROM ENTERING THE PLOWED AREA, UNLESS THE FILL MATERIAL IS GOING TO BE IN PLACE WITHIN 24 HOURS OF THE PLOWING. IF THE SITE CANNOT BE PLOWED, A BACKHOE BUCKET FITTED WITH CHISEL TEETH MAY BE USED TO "MILL" THE SITE BY CREATING FURROWS THAT ARE PARALLEL TO GROUND CONTOUR. THE AREA SURROUNDING THE MOUND WASTEWATER DISPOSAL SYSTEM SHALL BE GRADED TO PROVIDE DIVERSION OF SURFACE RUN-OFF WATERS. CONSTRUCTION SHOULD BE IMMEDIATELY AFTER PREPARATION OF THE SOIL INTERFACE BY PLACING THE SAND FILL.
- TO PREVENT COMPACTION, CONSTRUCTION EQUIPMENT SHALL NOT BE MOVED ACROSS THE PLOWED SURFACE OR THE DOWNHILL EFFLUENT DISPERSAL AREA. HOWEVER, AFTER PLACEMENT OF A MINIMUM OF SIX (6) INCHES OF SAND FILL OVER THE PLOWED AREA, TRACK TYPE 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. IF A SAMPLE OF SOIL OBTAINED FROM APPROXIMATELY NINE (9) INCHES BELOW THE SURFACE CAN BE EASILY ROLLED INTO WIRE, THE SOIL MOISTURE CONTENT IS TOO HIGH FOR CONSTRUCTION PURPOSES.
- THE PRESSURE DISTRIBUTION PIPE SHALL BE PLACED IN CRUSHED STONE WITH THE ORIFICES UPWARD. THE HOLES SHALL BE COVERED WITH AN ORIFICE SHIELD. THE MATERIAL USED TO COVER THE TOP OF THE STONE SHALL BE ONE LAYER OF FILTER FABRIC. THE ENDS OF ALL DISTRIBUTION PIPES SHALL BE CAPPED. THE DISTRIBUTION PIPE SHALL BE CONSTRUCTED SO THAT THERE IS ACCESS TO THE PIPING SYSTEM FOR FLUSHING OF THE PIPING SYSTEM.
- AFTER CONSTRUCTION OF THE DISTRIBUTION SYSTEM, BUT PRIOR TO COVERING THE DISTRIBUTION SYSTEM, A DESIGNER SHALL DIRECT THE TESTING OF THE DISTRIBUTION SYSTEM. AFTER SUCCESSFUL TESTING OF THE DISTRIBUTION SYSTEM, FILTER FABRIC SHALL BE INSTALLED AND THE SYSTEM COMPLETE. THE WASTEWATER DISPOSAL SYSTEM IS TO BE COVERED WITH TOPSOIL NATIVE TO THE SITE, OR OF SIMILAR CHARACTERISTICS, TO SUPPORT VEGETATION FOUND IN THE AREA. THE INSTALLER SHALL CROWN THE ENTIRE MOUND WASTEWATER DISPOSAL SYSTEM WITH A COVER OF SOIL LESS PERMEABLE THAN THE MOUND FILL, COVERING WITH 12" ON THE SIDES OF THE MOUND. NATIVE SOIL FROM THE SITE IS NORMALLY SUITABLE FOR COVER MATERIAL, THOUGH THE TOP 2-4" OF THIS COVER MUST BE TOP SOIL. THE ENTIRE MOUND SHALL BE SEEDED OR SOODED TO ASSURE STABILITY OF THE INSTALLATION. THIS GRASS COVER SHALL BE MAINTAINED AND SHOULD BE MOWED ON AT LEAST AN ANNUAL BASIS.

**GENERAL NOTES**

- ALL WASTEWATER CONSTRUCTION SHALL BE ON ACCORDANCE WITH THE STATE OF VERMONT "ENVIRONMENTAL PROTECTION RULES AND RELATED STATUTES" EFFECTIVE SEPTEMBER 29, 2007.
- THE CONTRACTOR SHALL RECORD AS-BUILT DIMENSIONS, LOCATION AND ELEVATIONS AS REQUIRED TO LOCATE ENTIRE SYSTEM INSTALLATION IN THE FUTURE.
- THE GROUND SURFACE SURROUNDING DRILLED WELLS, MANHOLES AND THE TOP OF DISPOSAL FIELDS SHALL BE SLOPED TO DRAIN AWAY.
- TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS. REPEAT AS NECESSARY UNTIL GROWTH HAS BEEN EST.
- SEPTIC TANK MUST BE WATERTIGHT AND SET LEVEL. PROVIDE SEPTIC TANK WITH INTEGRAL BAFFLES. INSTALL ACCESS MANHOLES TO GRADE OVER ACCESS COVERS.
- PERFORM PRESSURE AND LEAKAGE TEST ON ALL PIPES AND TANKS AS REQUIRED BY THE "ENVIRONMENTAL PROTECTION RULES". (WELL & WATER PIPES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651).
- SEPTIC TANK AND/OR PUMP STATION LOCATION MAY BE FIELD ADJUSTED (BY THE ENGINEER ONLY) TO BEST FIT FINAL BUILDING AND SITE ARRANGEMENTS PROVIDED ALL ISOLATION DISTANCES ARE MET.
- SYSTEM WILL REQUIRE CONSTRUCTION CERTIFICATION AND INSPECTION. CONTACT ENGINEER PRIOR TO ANY CONSTRUCTION.

**Mound Sand Gradation Options**

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.500	85 - 100
40	0.420	25 - 75
60	0.240	0 - 30
100	0.149	0 - 10
200	0.074	0 - 5

Sieve Number	Opening (mm)	Percent Passing, by Weight
4	4.750	95 - 100
8	2.380	80 - 100
16	1.190	50 - 85
30	0.590	25 - 60
50	0.297	10 - 30
100	0.149	2 - 10

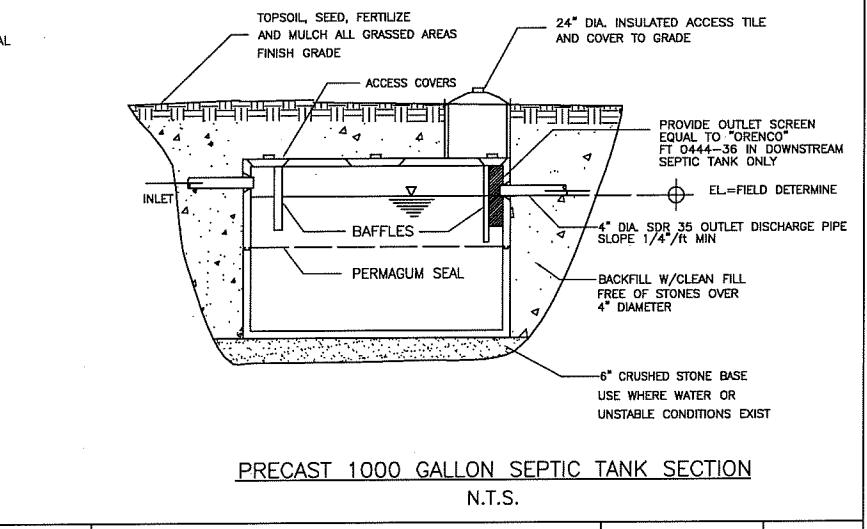
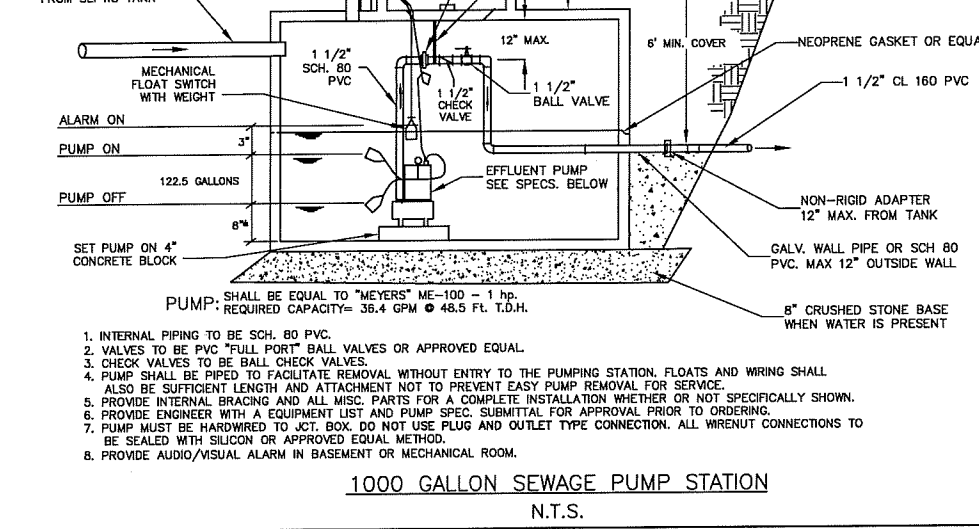
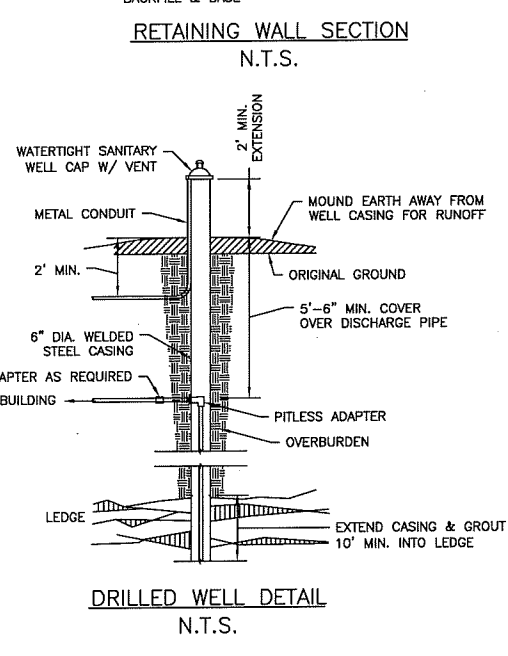
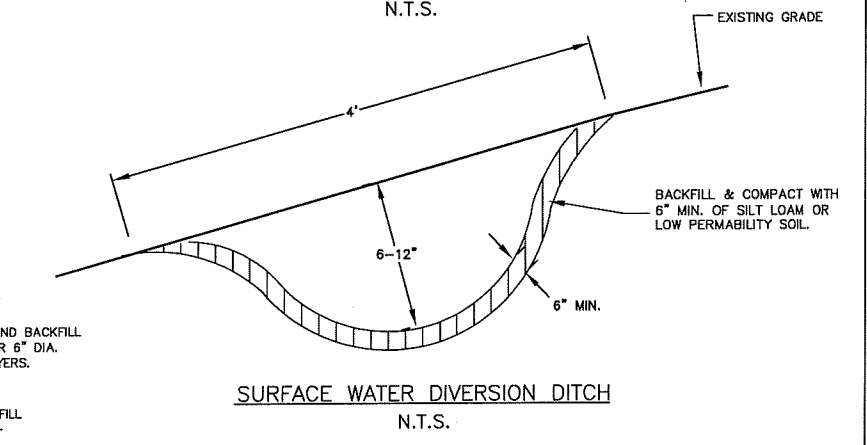
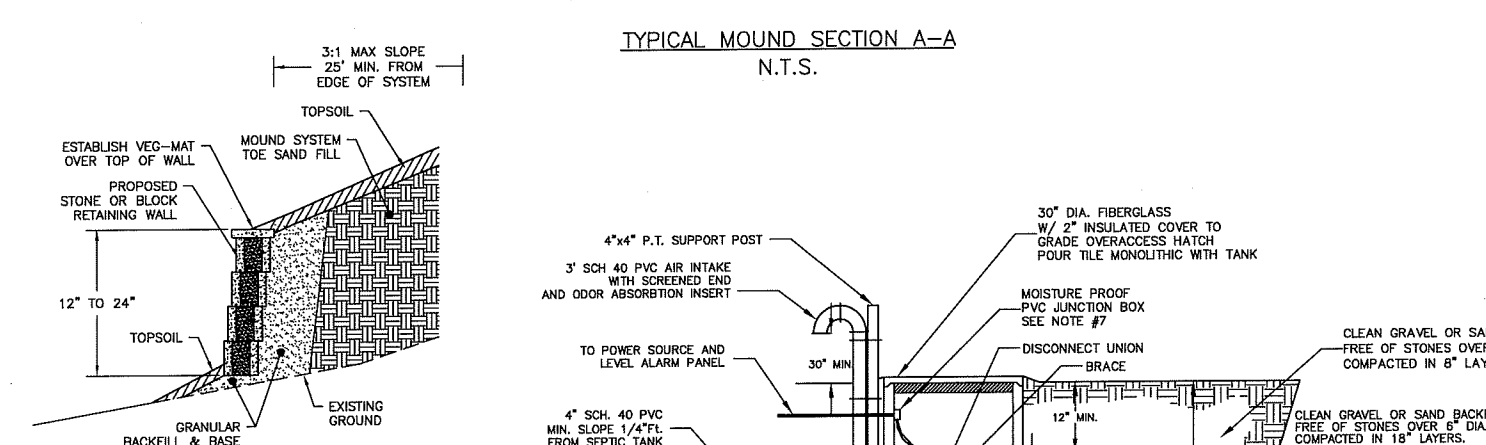
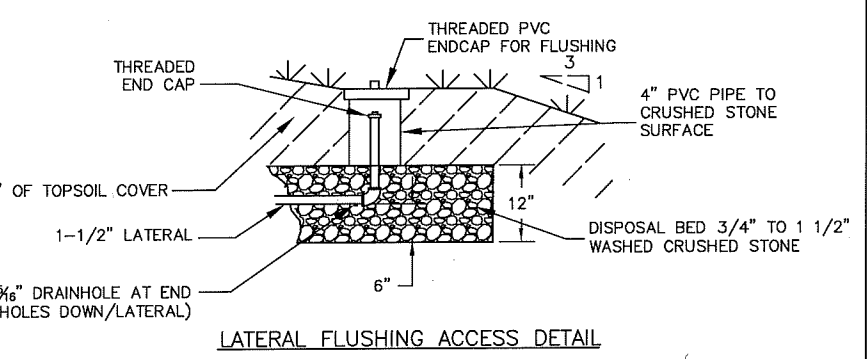
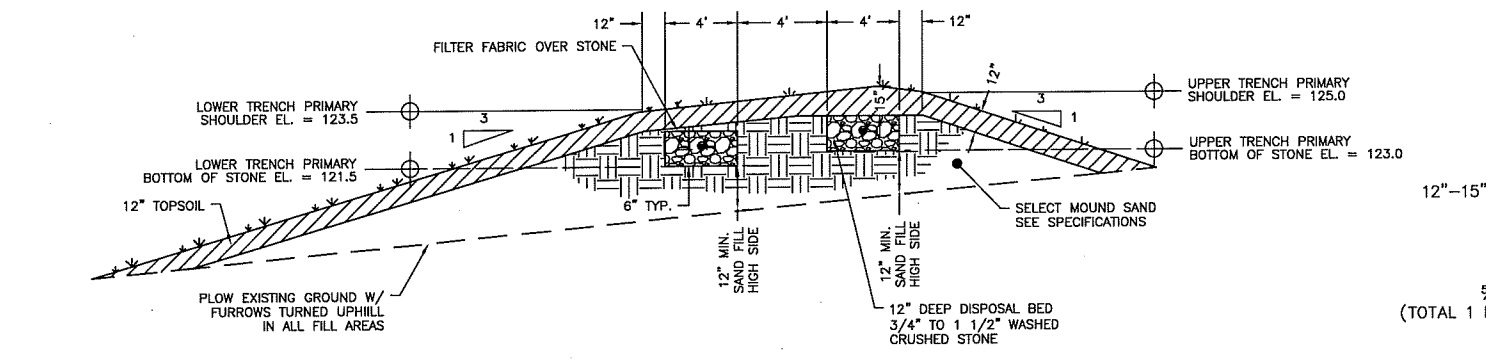
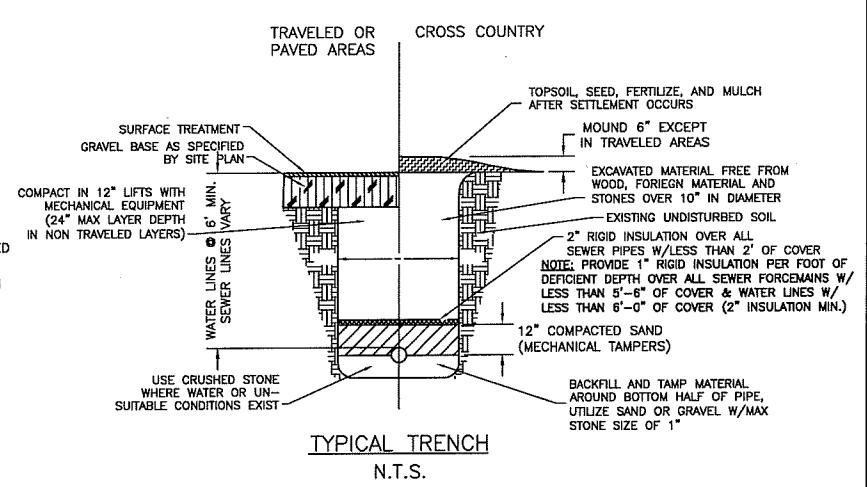
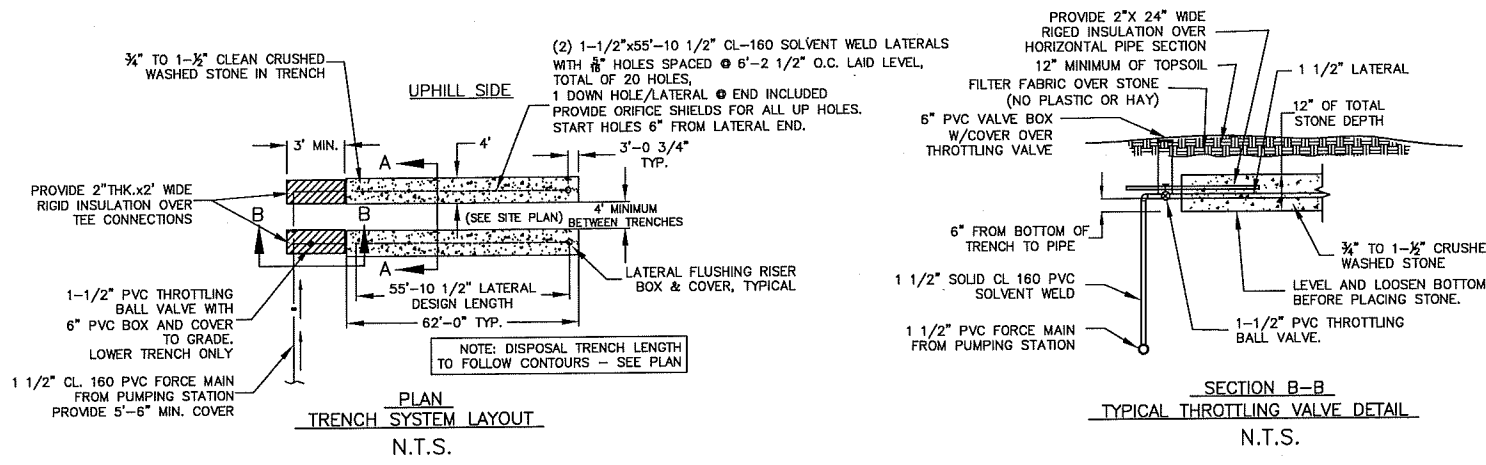
  

Sieve Number	Opening (mm)	Percent Passing, by Weight
3/8	9.500	85 - 100
40	0.420	30 - 50
200	0.074	0 - 5

4. The fill material must meet the specifications (1), (2), or (3) above.

**WATER SUPPLY NOTE:**

- WELL MUST HAVE MINIMUM WELL DRILLER'S ESTIMATED CAPACITY OF 0.75 GPM. INTERNAL STORAGE MAY BE REQUIRED IF TESTED WELL CAPACITY OUTPUT IS LESS THAN 5 GPM.
- PROVIDE PNEUMATIC TANK WITHDRAWAL CAPACITY OF 5 GALLONS @ 30-50 PSI OPERATING RANGE.
- CONTACT ENGINEER PRIOR TO DRILLING WELL FOR INSTRUCTIONS DURING WELL DEVELOPMENT PROCESS.



REVISIONS			
NO.	DESCRIPTION	DATE	BY

**Lawes-Donato Engineering**  
 Act 250 \* Water/Wastewater \* Building Design  
 Site Planning \* Permitting \* Stormwater

968 Center St., P.O. Box 637  
 Londondrille, Vermont 05851  
 802-626-0451

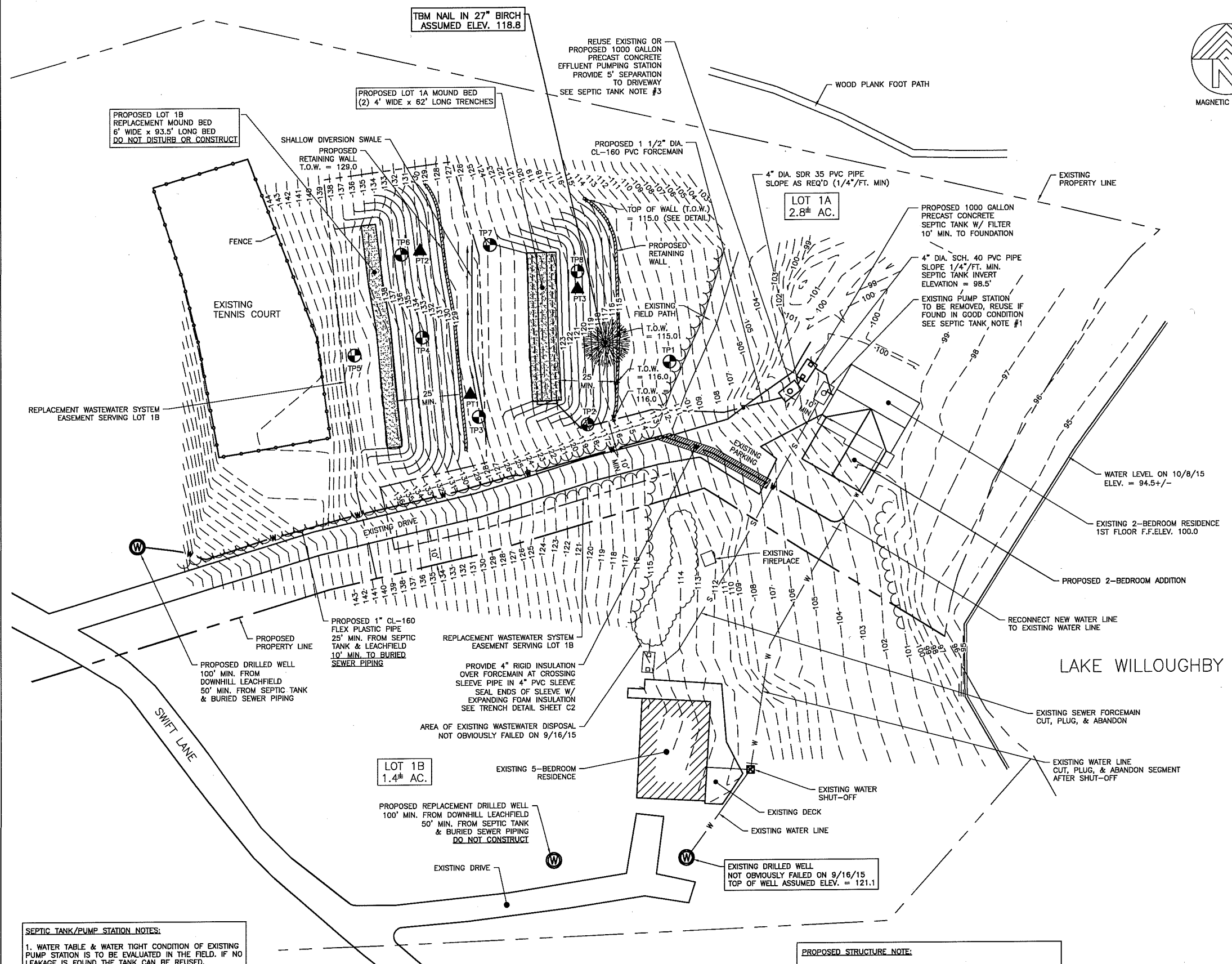
103 Church St.  
 Barton, Vermont  
 802-525-4900

PREPARED FOR:  
**PHINNEY FAMILY TRUST**  
 PROPOSED 2-LOT SUBDIVISION  
 LOT 1A WATER & WASTEWATER SECTIONS AND DETAILS  
 WESTMORE, VERMONT

Date: 12-16-15  
 Scale: As Shown  
 Drawn By: F.D.  
 Checked By: D.A.L.

DRWG. NO.  
**C2**





**Lot 1-A**

**I. Design Wastewater Flows:**  
 3 bedrooms x 140 gpd/bedroom = 420 gpd  
 1 Additional bedroom x 70 gpd/bedroom = 70 gpd  
 Total: 4 bedrooms = 490 gpd

**II. Septic Tank:**  
 Required capacity = 1000 gpd  
 Provide (1)-1000 gallon pre-cast concrete septic tank with filter and baffles as required.

**III. Disposal bed design: (see plans and details)**  
 The soils on this site qualify for a prescriptive mound system design.  
**a. Disposal bed design**  
 1. Maximum design application rate of 1.0 gal./ft./day is used for mound systems. The design application rate is: 1.00 gal./sq. ft./day.  
 Disposal area required = 490 sq. ft.  
 Proposed (2) 4' wide x 62' long disposal trenches.  
 Disposal area provided = 496 sq. ft.  
 The disposal beds will utilize pressure distribution based on 1/2" diameter orifices flowing at 1.82 gallons/minute.

**1. System piping arrangement.**  
 Mound systems require a minimum of 1 hole/25 sq. ft.  
 496 sq. ft. / 25 = 20 holes. (provide 20 holes)  
 Provide (2) - 65'-10 1/2' long lateral with 1/2" holes spaced 6'-2 1/2" on center.  
 Total holes = 20  
 Provide and feed.

**b. Design Pump Flow Rate:**  
 Minimum flow rate required = 2 laterals x 10 holes/lateral x 1.82 gals./min./hole = 36.4 gallons/minute

**c. Lateral Selection:**  
 From sizing charts - 1 1/2" lateral is sufficient.

**d. Manifold Selection:** manifold is 1 1/2" with equal flow to 2 laterals

**IV. Design/Emergency Storage volumes:**  
**a. System dose volume:**  
 The minimum required dose volume ratio is 5 times the volume of the distribution system.  
 The system distribution pipe volume is calculated as follows:  
 112 ft. of 1 1/2" p.v.c. @ .992 gal./ft. = 103.3 gallons  
 5 times the lateral volume = 52 gallons  
 Therefore the minimum bed dose volume should be 52 gallons for uniform distribution.

**b. Minimum dosing cycles/emergency storage volumes per day.**  
 Dose volume: The current EPR's require that dosing systems active at least 4 times/day for mound type systems.  
 Minimum dose volume at 4 doses/day = 490 gals./4 = 122.5 gallons  
 Therefore a dose volume of 122.5 gallons will be utilized for design purposes.  
 pump run time = 122.5 gallons gals./36.4 gpm = 3.4 minutes

**c. Emergency storage volume:**  
 1 day's emergency storage is required.  
 Emergency storage volume required = 490 gallons  
 Minimum dose volume = 122.5 gallons  
 Total Volume = 612.5 gallons  
 Provide (1) 1000 gallon precast concrete pumping station.

**V. Pump sizing/design head conditions:**  
 Pump will provide 36.4 gpm through a 1 1/2" force main. Velocity = 5.6 ft./sec.  
 HL = 6.0/100'

**Head Conditions:**  
**1. Static Head**  
 Lateral elev. = 123.5  
 Estimated pump station shut-off elev. = 96.0  
 Difference = 27.5 ft

**2. Dynamic Head**  
 Estimated force main length of 105'  
 Force main head loss = 105' x 0.080 ft/ft = 8.5 ft

**3. Residual Head** = 2.5 ft

**4. Misc. Losses - Estimate** = 10.0 ft

**Total Dynamic Head (T.D.H.)** = 48.5 ft.

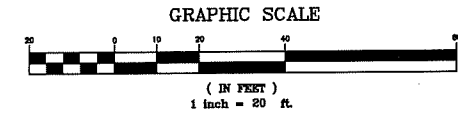
Therefore, the effluent pump shall be capable of at least 36.4 gallons/minute at 48.5 ft of T.D.H.  
 (Pump shall be equal to MYERS ME-100 1 HP)

**Lot 1A Mound Wastewater System Elevations**

Soil Type	Loamy Very Fine Sand
Design Slope/Design Flow/Req'd Area	19%/490 gpd/490 s.f.
Selected Size	(2) 4' x 62' Mound Trenches
Upper Trench	
High Ground Elevation	122.00
Seasonal H2O (high) Elevation	Elev. 122.00 - (24/12) = 120.00
H2O High Side Bottom Elevation	120.00 + 2 + 1 = 123.00
Top System Elevation	123.00 + 2 = 125.00
Lower Trench	
High Ground Elevation	120.50
Seasonal H2O (high) Elevation	Elev. 120.50 - (24/12) = 118.50
H2O High Side Bottom Elevation	118.50 + 2 + 1 = 121.50
Top System Elevation	121.50 + 2 = 123.50

**SEPTIC TANK/PUMP STATION NOTES:**

1. WATER TABLE & WATER TIGHT CONDITION OF EXISTING PUMP STATION IS TO BE EVALUATED IN THE FIELD. IF NO LEAKAGE IS FOUND THE TANK CAN BE REUSED. OTHERWISE, THE EXISTING PUMP TANK IS TO BE REPAIRED OR REPLACED WITH A NEW 1000 GALLON PRECAST CONCRETE PUMP STATION (THE EXISTING PUMP TANK MAY BE PUMPED, INFILLED, & ABANDONED). IF EXISTING PUMP STATION IS REUSED, PROVIDE NEW EFFLUENT PUMP PER PLAN SPECIFICATIONS & RISER TO GRADE W/ COVER.
2. CONTRACTOR TO ENSURE THAT THE GROUND AROUND THE SEPTIC TANK & PUMP STATION SLOPES AWAY.
3. MAINTAIN 5 FEET OF SEPARATION BETWEEN SEPTIC/PUMP TANKS & DRIVEWAY. USE POSTS OR EQUAL FOR MARKING.



**SITE PLAN**  
 SCALE: 1" = 20 FT.

**PROPOSED STRUCTURE NOTE:**  
 PROPOSED HOUSE ADDITION SHOWN IS FOR WATER/WASTEWATER PERMITTING PURPOSES ONLY. FUTURE LOT DEVELOPERS ARE RESPONSIBLE FOR OBTAINING LOCAL ZONING BUILDING PERMITS. EXACT SIZES & DIMENSIONS ARE TO BE DETERMINED & SHALL MEET ALL APPLICABLE ZONING REQUIREMENTS.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

**Lawes-Donato Engineering**  
 Act 250 \* Water/Wastewater \* Building Design  
 Site Planning \* Permitting \* Stormwater

968 Center St., P.O. Box 637  
 Lyndonville, Vermont 05851  
 802-626-0451

103 Church St.  
 Barton, Vermont  
 802-525-4900

PREPARED FOR:  
**PHINNEY FAMILY TRUST**  
 PROPOSED 2-LOT SUBDIVISION  
 LOTS 1A & 1B WATER & WASTEWATER SITE PLAN  
 WESTMORE, VERMONT

Date: 12-16-15  
 Scale: As Shown  
 Drawn By: F.D.  
 Checked By: D.A.L.

DRWG. NO.  
**C1**

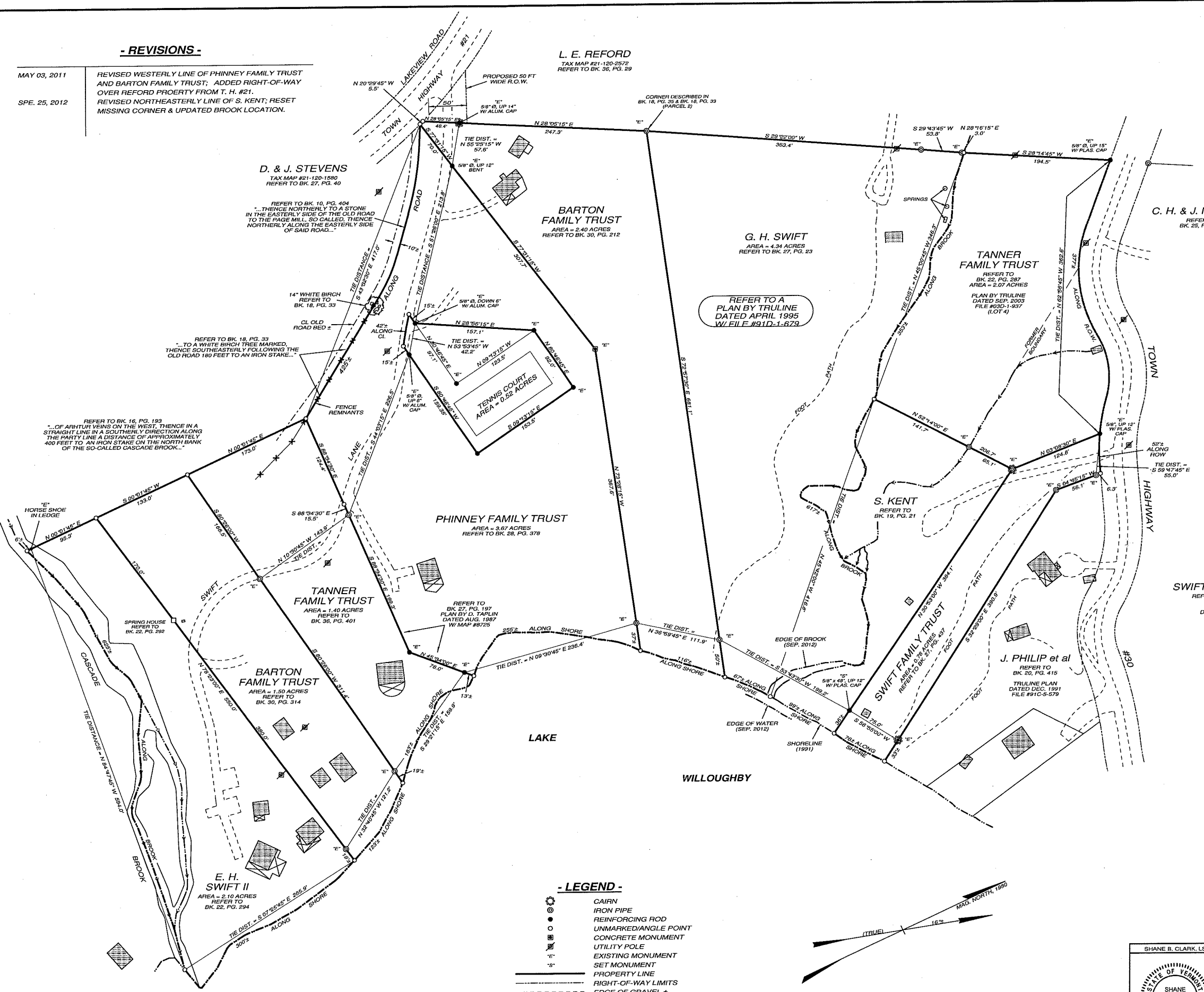
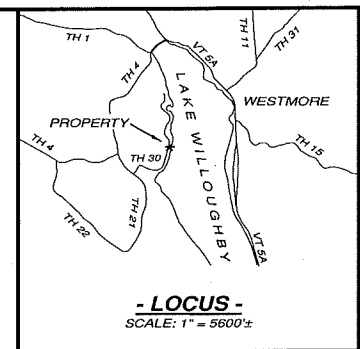


ORIGINAL INK ON MYLAR

**- REVISIONS -**

MAY 03, 2011  
REVISED WESTERLY LINE OF PHINNEY FAMILY TRUST AND BARTON FAMILY TRUST; ADDED RIGHT-OF-WAY OVER REFORD PROPERTY FROM T. H. #21.

SPE. 25, 2012  
REVISED NORTHEASTERLY LINE OF S. KENT; RESET MISSING CORNER & UPDATED BROOK LOCATION.



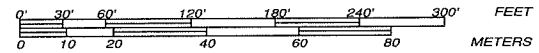
**- NOTES -**

1. THIS PLAT IS PREPARED FOR THE EXCLUSIVE USE OF THE SWIFT FAMILY TRUST AND NO REPRESENTATIONS ARE MADE TO, OR ANY RELIANCE JUSTIFIED BY, ANY OTHER INDIVIDUAL OR ENTITY.
2. THE BEARINGS SHOWN ARE BASED ON MAGNETIC OBSERVATIONS ON THE ORIGINAL TRAVERSE AND SERVE ONLY TO DEFINE THE ANGULAR RELATIONSHIP OF ADJOINING COURSES.
3. THE METES AND BOUNDS SHOWN ARE BASED ON A CLOSED TRAVERSE OF AN ELECTRONIC MEASUREMENT SYSTEM SURVEY WITH A DEGREE OF PRECISION OF 1 IN 20,000 OR BETTER.
4. ALL EXISTING MONUMENTS AND SET MONUMENTS SHOWN ARE STABLE AND PLUMB UNLESS OTHERWISE NOTED.
5. THE AREA SHOWN HAS BEEN CALCULATED TO THE RIGHT-OF-WAY LIMITS OF TOWN HIGHWAY #30 WHICH ARE ASSUMED TO BE 24.75 FEET (1 1/2 RODS) FROM THE EXISTING CENTERLINE.
6. NO ATTEMPT WAS MADE TO IDENTIFY OR LOCATE ANY UNRECORDED OR OBTUSCED EASEMENTS AND/OR RIGHTS, OTHER THAN SHOWN, DURING THE COURSE OF THIS SURVEY.
7. THIS IS A CERTIFIED PLAT WHEN ACCOMPANIED BY AN ORIGINAL SIGNATURE, DATE AND REGISTERED SURVEYOR'S STAMP OF A TRULINE REPRESENTATIVE.

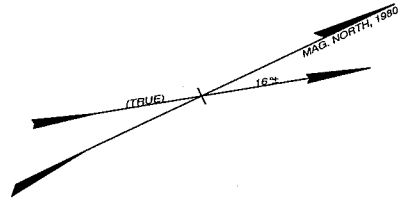
**- CERTIFICATION -**

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ARE BASED ON AND ARE CONSISTENT WITH THE DEED REFERENCES LISTED (EXCEPT WHERE NOTED) AND/OR OTHER DOCUMENTS REFERRED TO HEREON AS WELL AS EXISTING MONUMENTATION AND OTHER EVIDENCE OBSERVED ON THE PROPERTY, AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AS OF SEPTEMBER 25, 2012. THIS PLAT CONFORMS WITH THE REQUIREMENTS OF V.S.A. TITLE 27 §1403. (SEE NOTES.)

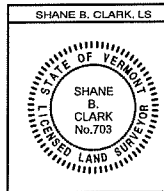
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



- LEGEND -**
- CAIRN
  - ⊕ IRON PIPE
  - ⊙ REINFORCING ROD
  - ⊙ UNMARKED/ANGLE POINT
  - ⊙ CONCRETE MONUMENT
  - ⊙ UTILITY POLE
  - ⊙ EXISTING MONUMENT
  - ⊙ SET MONUMENT
  - PROPERTY LINE
  - - - RIGHT-OF-WAY LIMITS
  - - - EDGE OF GRAVEL ±
  - ✕✕✕ BARBED WIRE FENCE



THIS PLAN HAS BEEN REDUCED FOR FILING.



PLAN PREPARED FOR  
**SWIFT FAMILY TRUST**  
SWIFT LANE & OLD COTTAGE ROAD  
LAKE WILLOUGHBY - WESTMORE, VT

LAND SURVEYORS	LAND PLANNERS	SCALE: 1" = 60'
Truline Land Surveyors, Inc.		SURVEY DATE: JUN 1991 / SEP. 2008
448 SUMMER ST., STE. 102 ST. JOHNSBURY, VT. 05819 Phone / Fax: (802) 749-3946 truline448@gmail.com		SURVEYED BY: P.E.M. / S.D.L.
DRAFTED BY: S.B.C.		CHECKED BY: S.B.C.
PLOT DATE: 09/25/12		REVISED SEPTEMBER 2012
FILE NO.: 08D-1-1204		

SWIFTRD.DWG