

**Shoreland Permit Application**for a **Shoreland Protection Permit** under  
Chapter 49A of Title 10, § 1441 *et seq.***For Shoreland Permitting Use Only**

Application Number:

273

VERMONT DEPARTMENT OF  
ENVIRONMENTAL CONSERVATION**WATERSHED  
MANAGEMENT DIVISION**

LAKES &amp; 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: William &amp; Diane Rossi

2a. Physical Address (911 Address): 1479 West Shore Road

2b. Town - County: Cabot - Washington

2c. Zip: 05647

3. 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) : 177-036-10683

4. Phone: 802-563-6088

5. Email: dmbrossi@aol.com

6. Name of lake/pond: Joes Pond - Danville

7. Total shore frontage: 100.00 (feet)

8. Was the parcel of land created before July 1, 2014?  Yes  No9. Are there wetlands associated with this parcel?  Yes  NoContact the Wetlands Program: (802) 828-1535 or [watershedmanagement.vt.gov/wetlands.htm](http://watershedmanagement.vt.gov/wetlands.htm).10. Have you ever applied for a permit with the Department of Environmental Conservation associated with this parcel?  
 Yes  No11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): 17,424 (square feet)  
See The Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix C, Determining Lakeside Zone & PSA12. What is the surface area of existing impervious surface on your parcel within the PSA: 6,340 (square feet)  
See The Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface13. What is the surface area of existing cleared area on your parcel within the PSA: 16,586 (square feet)  
See The Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing**B. Applicant Contact Information**

1. Name: William &amp; Diane Rossi

2a. Mailing Address: Post Office Box 228

2b. Municipality: Danville

2c. State: VT

2d. Zip: 05828

3. Phone: 802-563-6088

4. Email: wlrossi@aol.com

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

1. Name: John D. Grenier, PE- Grenier Engineering, PC

2a. Mailing Address: Post Office Box 445

2b. Municipality: Waterbury

2c. State: Vermont

2d. Zip: 05676

3. Phone: 1-802-244-6413

4. Email: john@grenierengineering.com

**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.

To construct a 10' x 23' addition on the existing residence at 1479 West Shore Road in Cabot. The project also includes a small covered entry on the north side of the residence. Including roof overhangs the project involves 290 sf of new impervious area. The roof run off will flow off the new roof structure and will be collected and treated on site by utilizing a flat shallow grass swale. The project does not involve any further clearing. The site is less than a 20% slope and contains more than 20% existing impervious surface.

2. For developed parcels, how far is the existing habitable structure from Mean Water Level 45 (feet), and How far will new cleared area or impervious surface be from MWL 78 (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):

The existing building is 45' +/- from MWL. The building addition is proposed away from the water side of the existing building, which is the furthest possible location from MWL to add to the existing building.

4a. What is the slope of the project site area: 4.00 %  
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):

Not Applicable

5a. What is the surface area of new impervious surface associated with this project: 290.00 (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: 6,630.00 (square feet)  
For D5b, add A12 to D5a

- 5c. Is the total in 5b. 20% or less of the parcel area within the PSA?  Yes If yes, skip 5d.  No  
If 5a is 0, check the n/a box, otherwise divide 5b by A11 and multiply by 100 for percentage. Total percentage = \_\_\_\_\_%  N/A

- 5d. If no above (5c), 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):

The roof run off will flow off the new roof structure and will be collected and treated on site by utilizing a flat shallow grass swale. Please see site plan for details.

vegetated (update via email on 4/12/2016 - MM)

6a. What is the surface area of new cleared area associated with this project: 0.00 (square feet)  
See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing

6b. What is the total resulting cleared area after completion of the project and prior to implementation of best management practices: 16,586.00 (square feet)  
For 6b, add A13 to D6a.

6c. Is the total in 6b. 40% or less of the parcel area within the PSA?  Yes If yes, skip 6d.  No  
If 6a is 0, check the n/a box, otherwise divide 6b by A11 and multiply by 100 for percentage. Total percentage = \_\_\_\_\_%  N/A

6d. If no above (6c), 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).  
Not Applicable.

### 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: Miane Rossi Date: 3/3/2016

### 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: [Signature] Date: 3/24/2016

### G. Additional Required Documentation (Please check to ensure you have completed the following)

- All sections of the application are complete (or otherwise indicate "not applicable")
- Application includes site plans denoting existing and proposed cleared area and impervious surface and distances from mean water level
- Application description includes dimensions and surface areas of cleared areas and impervious surfaces
- Application includes photos of project area

### H. Permit Application Fees

Administrative Fee: \$125.00		\$ 125.00
Impervious Area Fee: \$0.50 per square foot	Enter new impervious area as entered in item (5a.) <u>290.00</u> x .5	\$ 145.00
<b>Total:</b>		<b>\$ 270.00</b>

**Print Form**

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.WSMDSHoreland@vermont.gov](mailto:ANR.WSMDSHoreland@vermont.gov)





**GRENIER**  
ENGINEERING, PC

Mark Mitchell, Environmental Analyst  
VT DEC  
Watershed Management Division  
Shoreland Permitting  
1 National Life Drive, Main 2  
Montpelier, VT 05620-3522



March 24, 2016

RE: Building Addition for Existing Residence on Joe's Pond. William and Diane Rossi.  
1479 West Shore Road in Cabot.

Dear Mark,

Please find enclosed a Shoreland Permit Application, 2 copies of the site plan, a location map, and a fee check made payable to State of Vermont for \$270.00 to cover the fee.

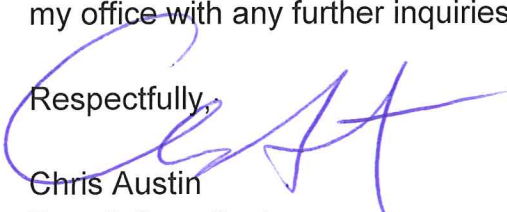
William and Diane Rossi are applying to construct a 10' x 23' addition to their existing residence at 1479 West Shore Road in Cabot. The existing lot is 0.4 +/- acres and is located within the shoreland protection area. The lot exceeds 20% of total existing impervious cover. The lot does not contain any steep slopes and averages approximately a 4% grade.

The building addition is proposed to the west side of the residence, away from the shoreline of Joe's Pond. The project also includes a small covered entry on the north side of the residence. No additional tree clearing is necessary for the project. The project results in an additional 290 square feet of impervious area (includes roof overhang).

The proposed site plan depicts treatment for the new impervious area associated with the building addition through collection of runoff via a drip edge gutter. The gutter will outlet to a proposed shallow grass swale. The native soils on site are a well drained Vershire-Dummerston complex which will help promote infiltration of runoff.

Thank you for your consideration of this matter. Please do not hesitate to contact my office with any further inquiries regarding this project.

Respectfully,

  
Chris Austin  
Permit Coordinator  
Grenier Engineering, PC

Enclosures

CC: William & Diane Rossi

**From:** John Grenier <john@grenierengineering.com>  
**Sent:** Tuesday, April 12, 2016 3:24 PM  
**To:** Mitchell, Mark  
**Subject:** Rossi Shoreline Permit Joe's Pond  
**Attachments:** DOC041216-04122016104352.pdf; (4-12-16 Revised) Rossi Site Plan.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Mark, attached is a revised site plan and worksheet for the Rossi shoreline permit. The worksheets indicate that we need 62 sf of grass channel bottom width and we have provided 120 sf. Let me know if I can provide more information.

Thank you,

John Grenier, PE

President  
Grenier Engineering, PC  
P.O. Box 445  
Waterbury, VT 05676  
802-244-6413  
[www.grenierengineering.com](http://www.grenierengineering.com)

-----Original Message-----

**From:** [susan@grenierengineering.com](mailto:susan@grenierengineering.com) [<mailto:susan@grenierengineering.com>]  
**Sent:** Tuesday, April 12, 2016 1:44 PM  
**To:** John Grenier  
**Subject:** Scanned Document from Grenier Engineering 04/12/2016 10:43

Scanned from MFP07339383  
Date:04/12/2016 10:43  
Pages:2  
Resolution:200x200 DPI  
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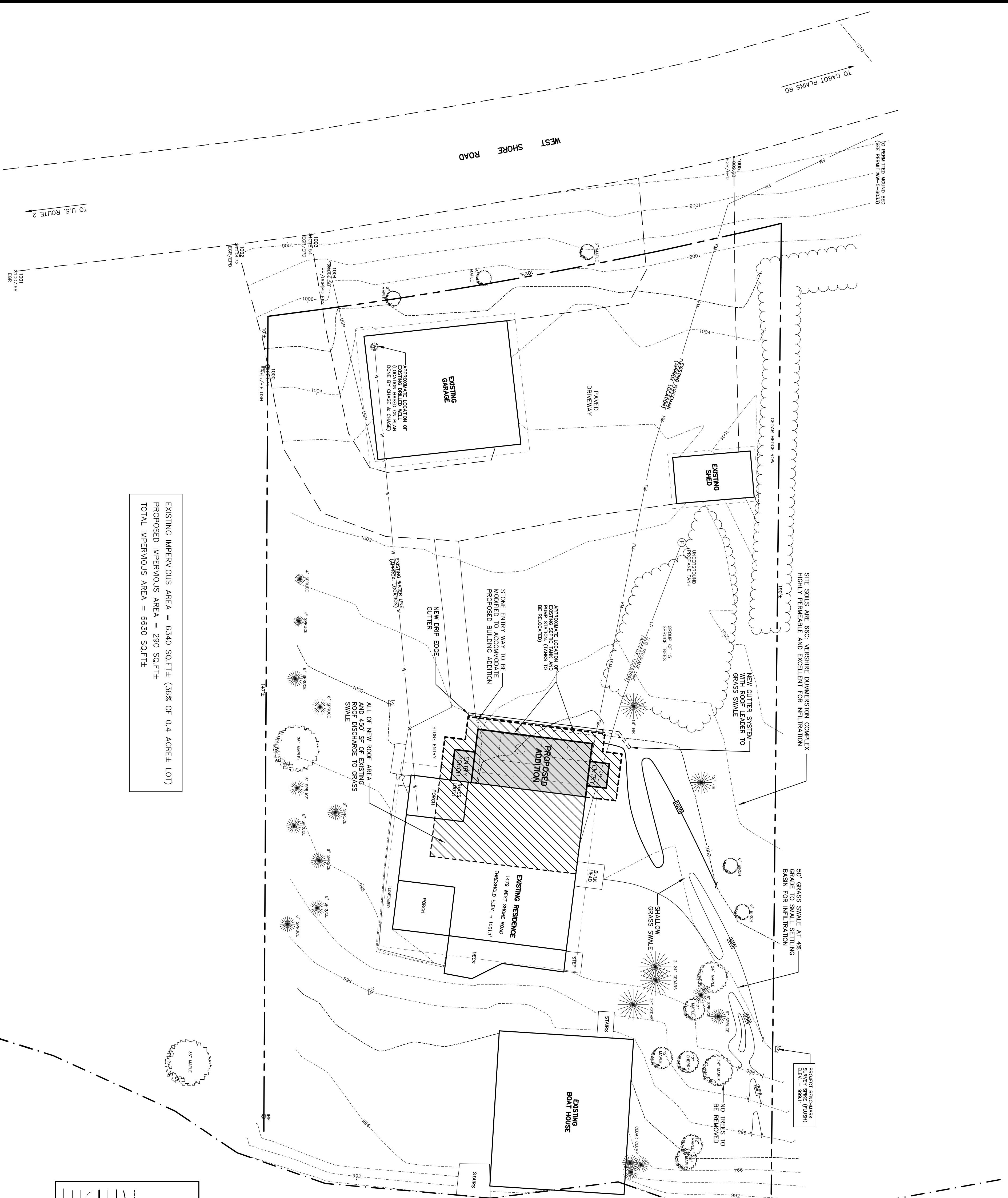
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No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)  
Version: 2015.0.6189 / Virus Database: 4540/11785 - Release Date: 03/09/16 Internal Virus Database is out of date.

**GREEN STORMWATER INFRASTRUCTURE SIMPLIFIED SIZING TOOL FOR SMALL PROJECTS  
PROJECT INFORMATION SUMMARY**

<b>Project Name/Number</b>	Rossi - Joe's Pond
<b>Application Submittal Date</b>	3/24/2016
<b>Name of Owner or Developer</b>	William and Diane Rossi
<b>Name of Applicant (if different from Owner)</b>	
<b>Primary Contact Phone Number</b>	802-563-6088
<b>Primary Contact E-mail Address</b>	dmbrossi@aol.com
<b>Project Location</b>	1479 West Shore Road
[e]911 Address, or intersection or parcel ID No.	
<b>Project Description</b>	290 s.f. Addition to existing residence.
[Examples: "Single Family Residence," "Parking Lot Addition," "Retail and Parking"]	
<b>Total Project Site Area (acres)</b>	0.4
<b>Total Earth Disturbance (square feet)</b>	1100
[Sum of currently pervious areas that will be cleared, graded, or otherwise disturbed during construction]	
<b>Total New Impervious Surface Area (square feet)</b>	290
[Sum of currently pervious areas that will be covered with new impervious surfaces]	
<b>Total Redeveloped or Replaced Impervious Surface Area (square feet)</b>	0
[Sum of currently impervious areas that will be covered with new impervious surfaces.]	
<b>Total Pre-Project Impervious Surface Area (square ft.)</b>	6340
<b>Total Post-Project Impervious Surface Area (square ft.)</b>	6630
<b>Green Stormwater Infrastructure Practices Selected</b>	<b>Total Area Treated Using Selected Practices (sq. ft.)</b>
[Check one or more, include sizing detail sheets for each practice selected]	[Enter the total surface area treated using each selected practice on the lines below]
Post-Construction Soil Depth and Quality (required)	<input checked="" type="checkbox"/> 0
Tree retention and planting	<input type="checkbox"/> 0
Cisterns and rain barrels	<input type="checkbox"/> 0
Rooftop disconnection	<input type="checkbox"/> 0
Non-rooftop disconnection	<input type="checkbox"/> 0
Drywell	<input type="checkbox"/> 0
Rain garden / bioretention	<input type="checkbox"/> 0
Vegetated swale	<input checked="" type="checkbox"/> 740
Infiltration trench	<input type="checkbox"/> 0
Permeable pavers	<input type="checkbox"/> 0
<b>Site Plan Attached?</b>	<input checked="" type="checkbox"/>







EXISTING IMPERVIOUS AREA = 6340 SQ.FT. (36% OF 0.4 ACRES LOT)  
 PROPOSED IMPERVIOUS AREA = 290 SQ.FT.  
 TOTAL IMPERVIOUS AREA = 6630 SQ.FT.

SITE SOILS ARE 66C, MESSURE DUMMESTON COMPLEX  
 HIGHLY PENETRABLE AND EXCELLENT FOR INFILTRATION

50' GRASS SWALE AT 4%  
 GRADE TO SMALL SETTLING  
 BASIN FOR INFILTRATION

PROJECT BENCHMARK  
 EXIST. SPOT (TUSN)  
 ELEV. = 1001.1

STONE ENTRY WAY TO BE  
 MODIFIED TO ACCOMMODATE  
 PROPOSED BUILDING ADDITION

ALL OF NEW ROOF AREA  
 AND 450' SF OF EXISTING  
 ROOF DISCHARGE TO GRASS  
 SWALE

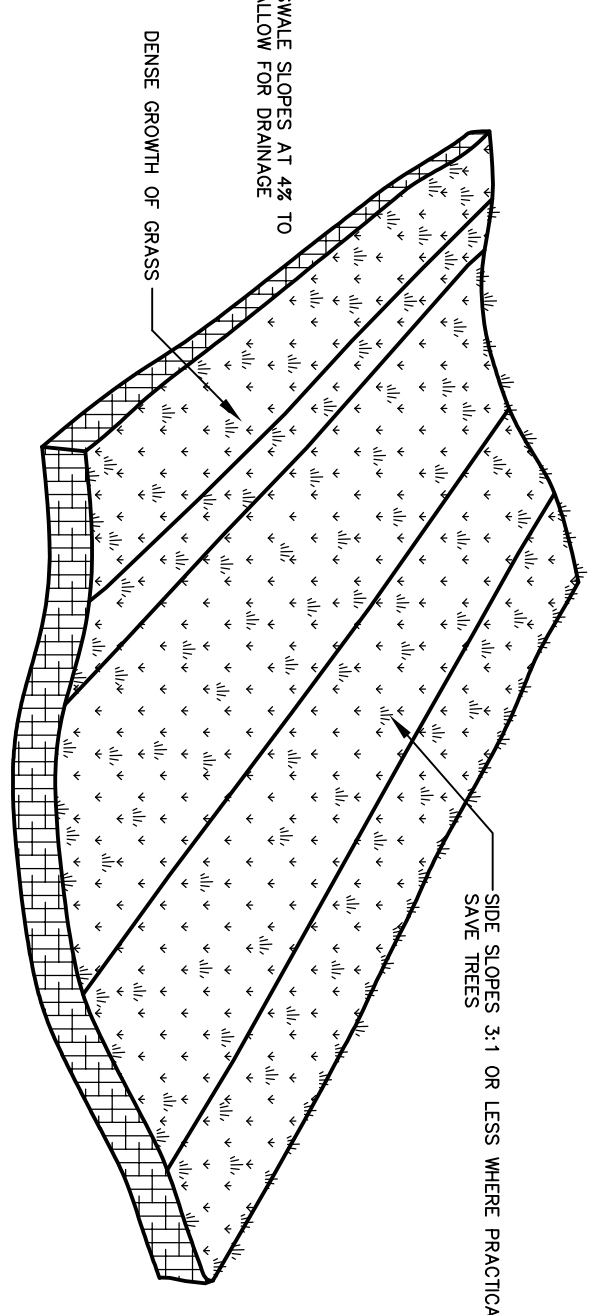
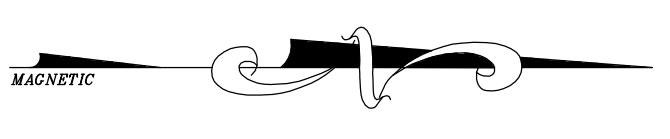
APPROXIMATE LOCATION OF  
 EXISTING BUILDING WITH NEW  
 ROOF DISCHARGE (CHASE & CHASE)

APPROXIMATE LOCATION OF  
 EXISTING STAINLESS TANK AND  
 PUMP STATION (TANKS TO  
 BE REMOVED)

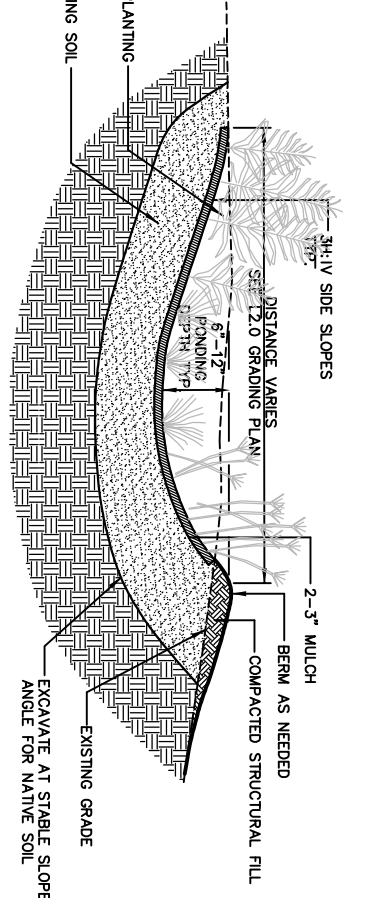
EXISTING RESIDENCE  
 1479 WEST SHORE ROAD  
 THRESHOLD ELEV. = 1001.7

EXISTING BOAT HOUSE

JOE'S POND



GRASSED TREATMENT SWALE (G.T.S.)  
 M/S



VEGETATED SWALE W/SOIL MIX  
 M/S

MANAGED PLANTING SOIL AND GROWTH REQUIREMENTS

1. MANAGED PLANTING SOIL AND GROWTH REQUIREMENTS
2. SOIL TYPE: SANDY LOAM TO SANDY CLAY LOAM
3. SOIL PH: 6.0 TO 7.5
4. SOIL NUTRIENT LEVELS: NITROGEN (NO3-N) 10-20 PPM, PHOSPHORUS (PO4-P) 10-20 PPM, POTASSIUM (K) 100-200 PPM
5. SOIL ORGANIC MATTER: 2-5%
6. SOIL DRAINAGE: WELL DRAINING
7. SOIL TEMPERATURE: 50-60°F
8. SOIL MOISTURE: 10-20%
9. SOIL pH: 6.0-7.5
10. SOIL SALINITY: < 4 dS/m
11. SOIL TOXICITY: NONE
12. SOIL BULK DENSITY: 1.2-1.4 g/cm³
13. SOIL PORE SIZE DISTRIBUTION: 10-20% micropores, 30-40% macropores
14. SOIL WATER POTENTIAL: -10 to -150 kPa
15. SOIL AIR CAPACITY: 10-20%
16. SOIL FIELD CAPACITY: 20-30%
17. SOIL PERMEABILITY: 1-2 cm/hr
18. SOIL SHEAR STRENGTH: 10-20 kPa
19. SOIL COMPACTION: NONE
20. SOIL EROSION: NONE

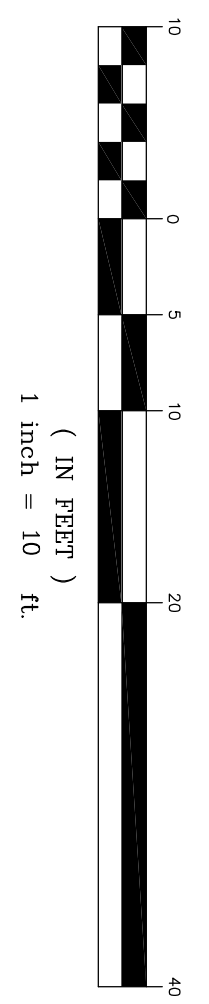
INFLTRATION BASIN DESIGN WITH PLANTING SOIL NOTES:

1. DESIGN NOTES: PLANTS PER LANDSCAPE ARCHITECT'S PLAN. PLANTING SOIL PER LANDSCAPE ARCHITECT'S PLAN. PLANTING SOIL PER LANDSCAPE ARCHITECT'S PLAN.
2. SOIL TYPE: SANDY LOAM TO SANDY CLAY LOAM.
3. SOIL PH: 6.0 TO 7.5.
4. SOIL NUTRIENT LEVELS: NITROGEN (NO3-N) 10-20 PPM, PHOSPHORUS (PO4-P) 10-20 PPM, POTASSIUM (K) 100-200 PPM.
5. SOIL ORGANIC MATTER: 2-5%.
6. SOIL DRAINAGE: WELL DRAINING.
7. SOIL TEMPERATURE: 50-60°F.
8. SOIL MOISTURE: 10-20%.
9. SOIL pH: 6.0-7.5.
10. SOIL SALINITY: < 4 dS/m.
11. SOIL TOXICITY: NONE.
12. SOIL BULK DENSITY: 1.2-1.4 g/cm³.
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17. SOIL PERMEABILITY: 1-2 cm/hr.
18. SOIL SHEAR STRENGTH: 10-20 kPa.
19. SOIL COMPACTION: NONE.
20. SOIL EROSION: NONE.

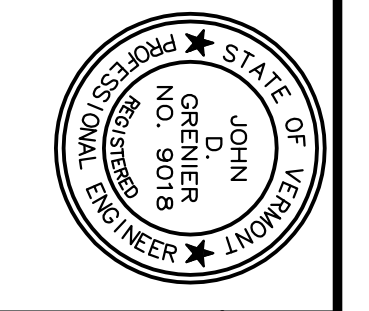
LEGEND

- ▲ SURVEY CONTROL POINT
- IRON ROD
- UTILITY POLE
- DRILLED WELL
- FINISHED CONTIGRONS
- PROPERTY LINE
- EDGE OF GRAVEL ROAD
- EDGE OF WATER
- EXISTING TREELINE
- UNDERGROUND POWER
- EXISTING WATERLINE
- EXISTING FORCEWALL

GRAPHIC SCALE



No.	Date	Revision	By
1	4.12.16	ADDED VEGETATED SWALE DETAIL & NOTES	TJM



**WILLIAM & DIANE ROSSI**  
 1479 WEST SHORE ROAD  
**CABOT**

**GRENIER**  
 ENGINEERING, P.C.

P.O. Box 445  
 Waterbury, VT 05676  
 TEL. (802) 244-6413  
 FAX. (802) 244-1972  
 Dwg Name: ROSSISP  
 Date: 3.24.16  
 Dwn By: ALLTJM  
 Scale: 1"=10'  
 Sheet No: 1 of 1  
 Dwg Name: ROSSISP  
 File No: XXX

**From:** John Grenier <john@grenierengineering.com>  
**Sent:** Monday, April 18, 2016 10:12 AM  
**To:** Mitchell, Mark  
**Subject:** Rossi, Joes Pond  
**Attachments:** IMG\_0663.JPG; ATT00031.txt; IMG\_0665.JPG; ATT00034.txt; IMG\_0667.JPG; ATT00037.txt

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Mark, attached are three photos of the Rossi building. The first is looking at the camp from the road, and second is looking at the camp from the water, and the third is the left side of the camp, looking towards the water.

Thank you,

John Grenier, PE

President  
Grenier Engineering, PC  
P.O. Box 445  
Waterbury, VT 05676  
802-244-6413  
[www.grenierengineering.com](http://www.grenierengineering.com)

-----Original Message-----

From: Chris Austin [<mailto:chris@grenierengineering.com>]  
Sent: Monday, April 18, 2016 9:30 AM  
To: John Grenier  
Subject: FW:

Rossi house pictures. Will these do for what they need?

Chris Austin  
Permit Coordinator  
Grenier Engineering, PC  
Post Office Box 445  
Waterbury, Vermont 05676  
Phone (802) 244-6413 Fax- (802) 244-1572

-----Original Message-----

From: Chris Austin [<mailto:chris@grenierengineering.com>]  
Sent: Monday, April 18, 2016 9:24 AM  
To: [chris@grenierengineering.com](mailto:chris@grenierengineering.com)  
Subject:

-----  
No virus found in this message.  
Checked by AVG - [www.avg.com](http://www.avg.com)





