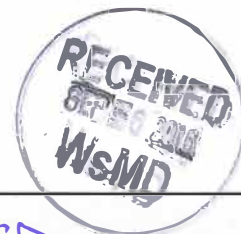


VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
 LAKES & PONDS PROGRAM

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



For Shoreland Permitting Use Only
 Application Number: **2171-SP**

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

Landowner's Name: **David and LINDA Schlatka**

2a. Physical Address (911 Address): **126 West Lake Road**

2b. Town - County: **Wilmington - Windham**

2c. Zip: **05363**

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) : **762-242-12869**

4. Phone: **617-680-6258**

5. Email: **Ben Schlatka<bschlatka@gmail.com>**

6. Name of Lake/Pond: **Raponda Lake - Wilmington**

7. Total Shore Frontage **135+** (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 <http://dec.vermont.gov/watershed/wetlands>

10. Have you ever applied for a permit with the Department of Environmental Conservation associated with this parcel?
 Yes No

11. What is the surface area of your parcel within the Protected Shoreland Area (PSA): **25795** (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: **4865** (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 are on your parcel within the PSA: **21995** (square feet)
 See the [Vermont Shoreland Protection Act - A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing](#)

B. Applicant Contact Information

1. Name: **Benjamin Schlatka**

2a. Mailing Address: **12 Steadman Road**

2b. Town: **Lexington**

2c. State: **MA**

2d. Zip: **02421**

3. Phone: **617-680-6258**

4. Email: **Ben Schlatka<bschlatka@gmail.com>**

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

1. Name: **Merrill Mundell, Jr.**

2a. Mailing Address: **P.O. Box 866**

2b. Town: **Wilmington**

2c. State: **VT**

2d. Zip: **05363**

3. Phone: **802-464-2042**

4. Email: **<mundlsam@sover.net>**

D. Project Description	
<p>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.</p> <p>The Schlatka family wishes to make a small addition (12' X 36') to the EXISTING HOUSE on the side directly away from the lake shore, shielded entirely by the existing house; AND a small addition to the back of the EXISTING GARAGE. The addition to the Garage will be (16' X 25'), the 16' projecting from the Garage into open lawn above the leach area, but into the protected area over 100' from the shoreline.</p> <p style="color: red; text-align: center;">The distance from the Mean Water Level to the expansion at the house is 72 feet; The distance from the Mean Water Level to the expansion at the Garage is 125 feet.</p>	
<p>2. For developed parcels, how far is the existing habitable structure from Mean Water Level <u>35</u> (feet), and how far will new cleared area or impervious surface be from MWL 62 <u>72</u> (feet)?</p> <p>OR</p> <p>For undeveloped parcels, how far will new cleared area or impervious surface be from MWL <u>NA</u> (feet)?</p> <p>See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix A – Estimating Mean Water Level</p>	
<p>3. Can all new cleared area or impervious surface be set back at least 100 feet from MWL? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If no, explain why below (attach support information as needed):</p> <p>The EXISTING HOUSE does not extend far enough so that any part of it approaches the 100' distance from the MWL. The Garage is set back more than 100 feet from MWL (see the plan for the 100' setback line).</p>	
<p>4a. What is the slope of the project site area: <u>2</u> %</p> <p>See The Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix B, Determining Slope</p>	<p>4b. Is the slope of the project area less than 20%?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, skip 4c.</p>
<p>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):</p>	
<p>5a. What is the surface area of new impervious surface associated with this project: <u>832.00</u> (Square Feet)</p> <p>See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix F, Calculating Percent Impervious Surface.</p>	<p>5b. What is the total resulting impervious surface after completion of the project and prior to implementation of best management practices: <u>5697</u> (Square Feet)</p> <p style="text-align: right; font-size: small;">For D5b, add A12 to D5a</p>
<p>5c. Is the total in 5b. 20% or less of the parcel area within the PSA? <input type="checkbox"/> Yes (if yes, skip 5d.) <input checked="" type="checkbox"/> No</p> <p>If 5a is 0, check the n/a box, otherwise divide D5b by A11 and multiply by 100 for percentage. Total percentage = <u>22.08</u> % <input type="checkbox"/> N/A</p>	
<p>5d. If no above (5c), describe the best management practices used to manage, treat, and control erosion from stormwater from the portion of impervious surface that exceeds 20% (attach support information as needed): We will employ "COREgrass" (or equal). "COREgrass" is an environmentally friendly, completely porous material used in parking areas and driveways to provide a pervious surface. We will use "COREgrass" in the entire parking area North of the garage resulting in 555 sq. ft. of impervious returned to the pervious category. The new percentage of impervious to lot area is 19.93%. (see spreadsheet; see "COREgrass" literature enclosed) North of the garage is approximately 125 feet from MWL</p>	

6a. What is the surface area of new cleared area associated with this project: 0 (Square Feet) <small>See the Vermont Shoreland Protection Act – A Handbook for Shoreland Development, Appendix E, Calculating Percent Clearing.</small>	6b. What is the total resulting cleared area after completion of the project and prior to implementation of best management practices: 21995 (Square Feet) <small>For D6b, add A13 to D6a</small>
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6c. Is the total in 6b. 40% or less of the parcel area within the PSA? Yes (if yes, skip 6d.) No N/A
If 6a is 0, check the n/a box, otherwise divide D6b by A11 and multiply by 100 for percentage. Total percentage = 85.3 %

6d. If no above (6c), establishing vegetative cover (revegetation) is the only applicable best management practice. Please describe a revegetation plan that will be equal to or greater in surface area than the proposed new cleared area as identified in 6a. Identify the location on the parcel where the revegetation will occur and how far from mean water level it will be (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: [Signature] **Date:** 8/26/2016

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:** 8/26/2016

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 ft.	Enter new impervious area as entered in item (5a) 832.00 x 0.5	416.00
Total Fee due:		541.00

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

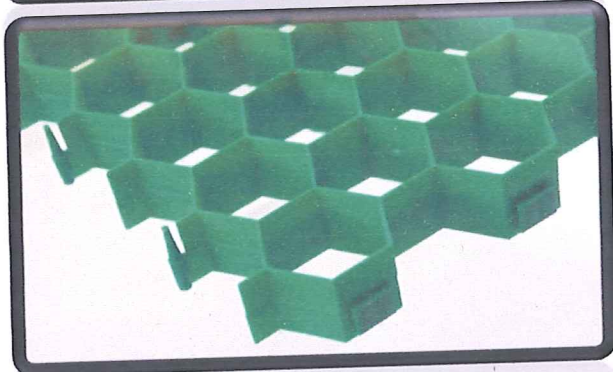
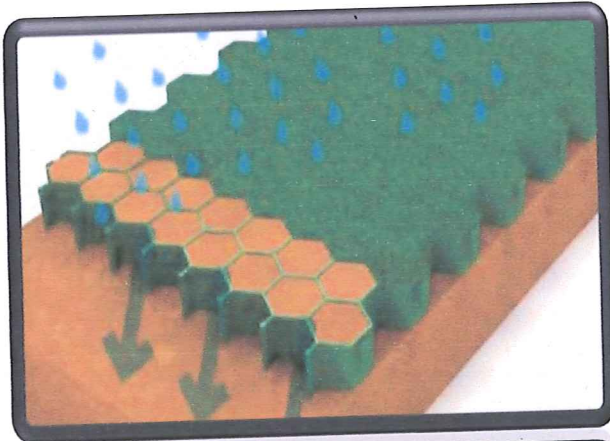
Direct all correspondence or questions to Shoreland Permitting at:
ANR.WSMDSshoreland@vermont.gov

For additional information visit:
<http://dec.vermont.gov/watershed/lakes-ponds>

COREgrass® 50-35MM / 60-40MM

Product Code: COREgrass 50-35mm ; COREgrass 60-40mm

The sheets should be laid on a suitable sub-base (see CBR sub-base guide table below) Alternatively they can be laid over existing; tarmac, concrete or gravel driveways as follows.



Environmentally Friendly: Completely porous and SUDS compliant (Sustainable Urban Drainage System).
Perfect For: Driveways, car parks, access roads, emergency access routes, hard-standings, bridleways and pathways.
Suitable For: Bicycles, Cars, 4x4s, Light Commercial Vehicles and fully DDA Compliant (Disability Discrimination Act).
Sustainability: Available in green 100% recycled Polypropylene.

Load Bearing:
COREgrass 50-35 = 150 tons p/m² empty and 250 tons p/m² full (approximately 20 tons of axle weight).
COREgrass 60-40 = 200 tons p/m² empty and 300 tons p/m² full (approximately 25 tons of axel weight)

Summary

- Easy to self-install.
- Easy to manage sheet size or large sheets for quicker install time on larger projects.
- Easy to cut using small angle grinder or disc cutter.
- The sheets are highly flexible, allowing them to bend slightly and follow the contour of the ground.



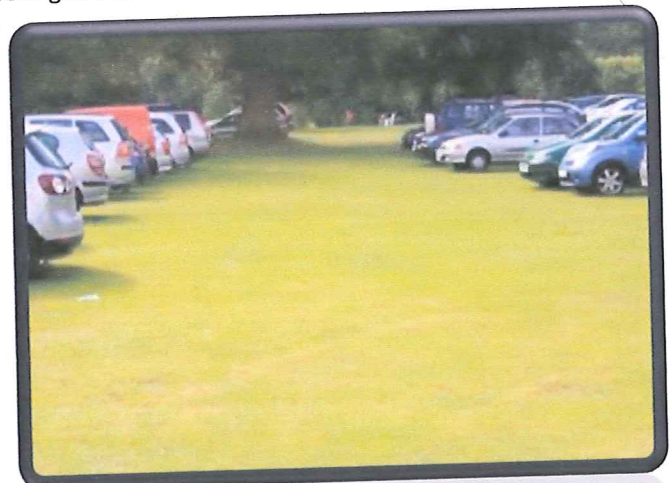
Brief Install Guide

Existing suitable surfaces: blind over existing surface with sharp sand to form a continuous smooth base level, lay grid and clip together to form one continuous matrix. Fill with structural soil (as per Core Systems recipe) then damp down with water to allow soil to settle into cells, this forms a soil/loam mix. Surface dress the cells and cover by approximately 10-15mm, seed the area and water thoroughly. **Laying COREgrass with required excavation work:** excavate to required sub base depth, lay 100-350mm of suitable sub-base material (crushed type 1 or washed aggregate) and follow steps from install guide above.

Coverage:

COREgrass 50-35 = 0.86m² per 1200x720mm sheet.

COREgrass 60-40 = 1.15m² per 1150x1000mm sheet.



COREgrass[®] Technical Data

CBR Sub-base Guide

Application Load	CBR (%) Strength of Subgrade soil (see chart below)	DoT Sub-base Thickness (mm)
Fire Engine and occasional HGV access	≥6	100
	=4 <6	120
	=2 <4	190
	=1 <2	380
Light vehicle access and overspill parking	≥6	100
	=4 <6	100
	=2 <4	135
	=1 <2	260

The above table showing sub-base thicknesses is intended as a general guide in accordance with BS7533. For further details on permeable paving design refer to BS7533 Part 13; for installation refer to BS7533 Part 3. The design for pavements should satisfy two parts – to support the traffic load and to manage surface water. To determine CBR (California Bearing Ratio) of site ground please refer to the table below.

Subgrade Field Assessment

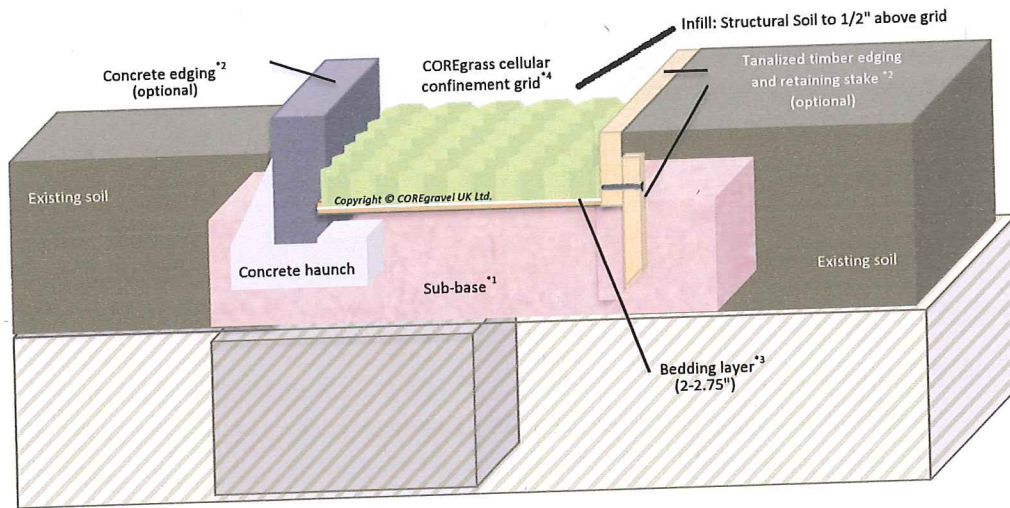
Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test) SPT	CBR %	CU kN/m ²
Very Soft	Hand sample squeezes through fingers	Man standing will sink >75mm	<2	<1	<25
Soft	Easily moulded by finger pressure	Man walking sinks 50-70mm	2-4	Around 1	Around 25
Medium	Moulded by moderate finger pressure	Man walking sinks 25mm	4-8	1-2	25-40
Firm	Moulded by strong finger pressure	Utility truck ruts 10-25mm	8-15	2-4	40-75
Stiff	Cannot be moulded but can be indented by thumb	Loaded construction vehicle ruts by 25mm	15-30	4-6	75-150

Product Data

Description	Data		Description	Data	
Product	50-35	60-40	UV Resistance	High	
Cell Diameter/Depth	50mm/35mm	60mm/40mm	General Use	Car/4x4/Transit Van/Fire Engine/HGV	
Chemical Resistance	Excellent		Small Sheet Size/Area	1200x720mm/0.86m ²	1150x1000mm/1.15m ²
Cell Wall Thickness	2.3mm	2.5mm	Large Sheet Size/Area	2160x1200mm/2.58m ²	2300x1000mm/2.3m ²
Max Weight (Filled)	250 tons	300 tons	Max Weight (Empty)	150 tons	200 tons
Material	100% recycled green Polypropylene		Interlock Mechanism	Overlapping Slot/Pin and Socket Connection	

COREgrass® Install Guide

Technical install Diagram



Sub-base^{*1} = Once the CBR has been established lay the sub-base at the required depth for the intended traffic load. **Standard sube base** could be DoT type 1; scalplings; crushed limestone; firm existing surface i.e. old gravel driveway, asphalt or concrete. Sharp sand or road crush should be laid (10-20mm) to form a bedding layer and iron out any minor deformities in the sub base. **SUDS compliant sub-base** should contain no fines (nothing smaller than 2mm). This prevents the base from binding together; allowing water to penetrate freely i.e. clean angular gravel or clean crushed aggregate. The smaller aggregate should be laid to form a bedding layer on top of the larger aggregate, when compacted this will form a suitable surface on which the grid system can be laid.

Edging^{*2} = The choice of edge restraint is partly dependant on the intended application and the intended traffic load. Concrete, timber, metal and recycled plastic are all suitable.

Bedding Layer^{*3} = Sharp sand (not recommended for extreme cold weather environments) or road crush should be used for non SUDS compliant installs. 3-6mm clean crushed aggregate should be used for a truly SUDS compliant install.

Specific advice on the use of COREdrive on steep slopes, drainage sustainability and Sustainable Urban Drainage Systems (SUDS) applications can be obtained from CORE systems.

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CORE SYSTEMS :: P.O. Box 1545 Comox, BC Canada V9M 8A2
Toll-Free :: +1.855.777.2673 (CORE) Email :: info@coregravel.ca Website :: www.coregravel.ca











Ventilation grille in the gable.

Window with blue shutters.

Decorative ornament below the window.

TRANSIT van logo.

License plate: 2411637

License plate: 99F S77

License plate: 1W234



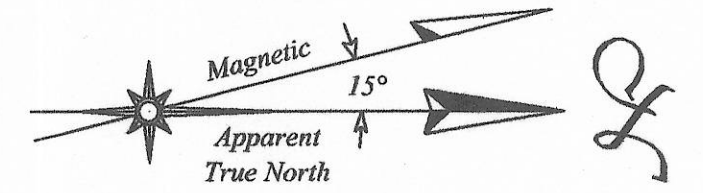


EROSION CONTROL MEASURES:

1. All disturbed areas still open, or newly disturbed after October 1st shall be seeded, fertilized, limed, and covered with an erosion control blanket (Geotextile fabric, jute matting, or straw/hay). All open or newly disturbed earthwork shall be mulched at the end of each day.
2. Earthwork shall only take place during suitable conditions; i.e. there shall be NO earthwork during times of rain.
3. Topsoil stock piles shall have the exposed soil completely mulched and shall have siltation checks around the base of the mound.
4. All stumps shall be disposed of above the seasonal high water table on site, or at a State-Approved Landfill.
5. All culverts shall have level spreaders at outlet end and concrete or stone headers at both ends.
6. All ditch/swale slopes and ditches less than 6% shall be seeded, fertilized, limed, and covered with an erosion control blanket (Geotextile fabric, jute matting, or straw/hay).
7. Place silt fence below all construction areas before any earth disturbance and remove after one year.
8. The guidebook "Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites" is an incorporated document.

Note: Be sure to use appropriate erosion control measures during the construction of the building additions.

Note: Minimize earth disturbance within the wetland & wetland buffer as much as practically possible.



LEGEND	
+	Point of Intersection
●	Iron pipe found
○	Rebar pin found
△	Instrument set up point
—	10 ft. contour line
- - -	2 ft. contour line
— S —	Solid sewer pipe
- - - S - - -	Highway Right-of-way (+/-)
— P —	Property line (+/-)
— R —	Runoff Ditch
— W —	Proposed Water line
— U —	Utility pole
— L —	Utility lines
— S —	Lake Shoreline
- - -	Edge of Wetlands
- - -	Wetlands Buffer line
- - -	Edge of Drive or Road
- - -	Edge of Woods
—	Stone Retaining Wall
- - -	Zoning Setback line

PERMANENTLY DISTURBED BUFFER AREA
Total Area = 400 sq.ft.

N/F
ALP Properties, LLC
Book 317, Pages 332 - 334
3/23/2015 ; 3/25/2015

Lot #23
(North Half)
Parcel ID #022 - 21 - 009,0

BENCH MARK
Elevation @ 1859.1' (Assumed from USGS map)
Top of Drilled Well Cap

Parcel ID #022 - 21 - 010,0

Note: Existing gravel to be removed and replaced with COREgrass (or equal). COREgrass is an environmentally friendly, completely porous material used in parking areas and driveways to provide a pervious surface.

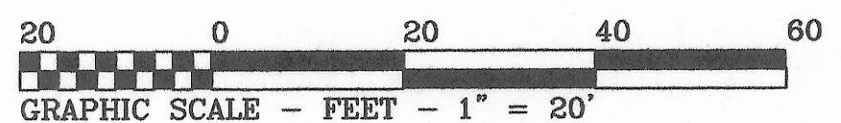
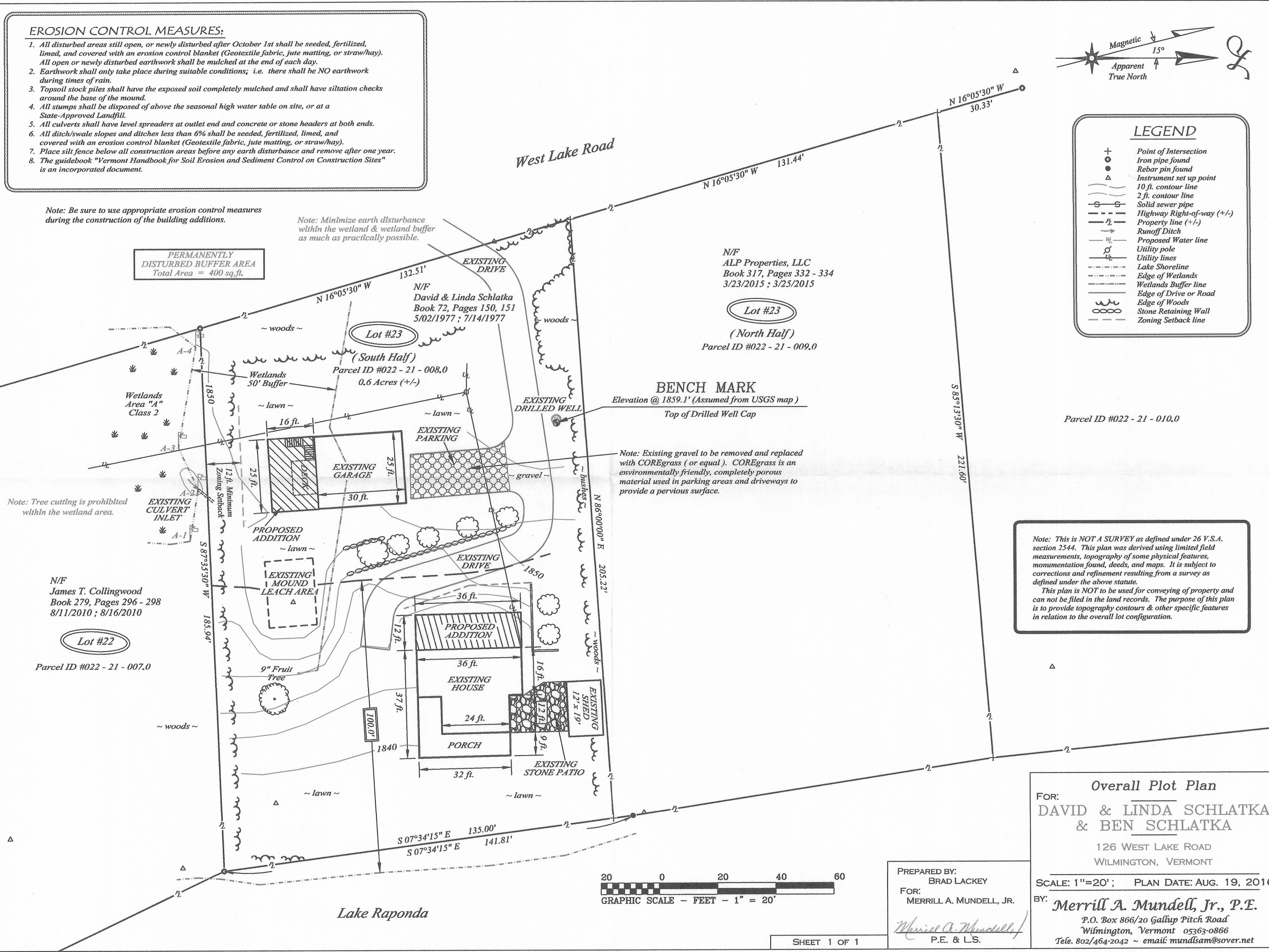
Note: This is NOT A SURVEY as defined under 26 V.S.A. section 2544. This plan was derived using limited field measurements, topography of some physical features, monumentation found, deeds, and maps. It is subject to corrections and refinement resulting from a survey as defined under the above statute.
This plan is NOT to be used for conveying of property and can not be filed in the land records. The purpose of this plan is to provide topography contours & other specific features in relation to the overall lot configuration.

Note: Tree cutting is prohibited within the wetland area.

N/F
James T. Collingwood
Book 279, Pages 296 - 298
8/11/2010 ; 8/16/2010

Lot #22

Parcel ID #022 - 21 - 007,0



PREPARED BY:
BRAD LACKEY
FOR:
MERRILL A. MUNDELL, JR.
Merrill A. Mundell, Jr.
P.E. & L.S.

Overall Plot Plan
FOR:
**DAVID & LINDA SCHLATKA
& BEN SCHLATKA**
126 WEST LAKE ROAD
WILMINGTON, VERMONT
SCALE: 1"=20'; PLAN DATE: AUG. 19, 2016
BY: **Merrill A. Mundell, Jr., P.E.**
P.O. Box 866/20 Gallup Pitch Road
Wilmington, Vermont 05363-0866
Tele. 802/464-2042 ~ email: mundellam@sover.net