

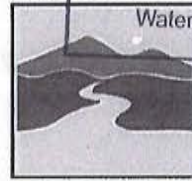
AUG 31 2015

Individual Permit Application

for a **Lake Encroachment Permit** under
 Chapter 11 of Title 29, § 401 *et seq.*

For Lake Encroachment Permitting Use Only

Application Number: **2015-036**



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

Submission of this application constitutes notice that the person in Section B intends to encroach beyond the mean water level of a lake or pond, and certifies that the project will comply with Chapter 11 of Title 29, § 401 *et seq.* All information required on this form must be provided, and the requisite fees (Section I) must be submitted made payable to the State of Vermont, to be deemed complete.

A. Project Information

1a. Physical Address (911 Address): **2714 Hathaway Point Road & Burton Island St. Albans VT**

1b. Municipality: **St. Albans Town** 1c. Zip: **05478** 2. SPAN*: **552-17413847** NA

3. Name of lake/pond: **Lake Champlain** 4. Is there an existing lake encroachment permit associated with this project location?
 Yes No Permit #: _____

B. Applicant Contact Information

1. Name: **State of Vermont, Dept of Forests Parks & Rec., Michael Snyder, Commissioner**

2a. Mailing Address: **1 National Life Drive, Davis 2**

2b. Municipality: **Montpelier** 2c. State: **VT** 2d. Zip: **05620-3801**

3. Phone: **(802)828-1534** 4. Email: **tracy.zeno@vermont.gov**

C. Application Preparer Contact Information

1. Name: **Kevin J. Camara, P.E., Green Mountain Engineering, Inc.**

2a. Mailing Address: **P.O. Box 159**

2b. Municipality: **Williston** 2c. State: **VT** 2d. Zip: **05495**

3. Phone: **(802)862-5590** 4. Email: **kcamara@gmeinc.biz**

D. Abutting Land Owners

Using the abutter addendum available on watershedmanagement.vt.gov/permits/html/pm_encroachment-application.htm, attach a list of land owners who abut the proposed project.

*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.

E. Project Description

1. Describe the proposed project including a description of the materials and mechanical equipment which may be used during construction and the anticipated work schedule. Identify whether or not the project includes placement or removal of fill and if so, specify the number of cubic yards of fill or dredged materials to be placed or removed beyond the shoreline at mean water level. On separate pages attach site plans with aerial and cross section views as well as any other relevant supporting documents:
 Removal of 155 CY existing sandy material and replacement with approximately 155 cy of rip rap below 95.5' elevation. Removal and replacement of approximately an additional 78 cubic yards of existing sandy material to bury cable at shorelines. Materials include electrical service line cable, 155 CY rip rap, barge to lay cable, barge to excavate, excavator, dump trucks, temporary silt booms and temporary silt fence.

2. Describe the purpose of the proposed project:

Replacement of the broken electrical service line from Kill Care State Park to Burton Island State Park.

3. Describe what less intrusive feasible alternatives have been considered and what measures are proposed to reduce adverse impacts on the waterbody:

The State considered installing solar power on Burton Island but it was concluded that it could not provide the peak demand and if net metering were used then the electric line would need to be installed anyways.

4. Describe the public benefits of the proposed project:

Electric power at Burton Island State Park for the restrooms, pump out, park office, store and marina. Burton Island provides the public with recreation.

F. Encroachment Effects (describe how the proposed project will affect the following)

1. Water quality:

There will be no effects on water quality. The rip rap will be used to limit erosion and the electrical line will be placed on the bottom of the lake beyond the shore. Silt fence and silt booms will be used during construction to protect water quality.

2. Fish and wildlife habitat:

Fish and wildlife habitat will not be effected as the project will be returned to its original conditions.

3. Aquatic and shoreline vegetation:

Aquatic and shoreline vegetation will not be effected as this is a replacement of existing line. The shoreline will be returned to the original conditions.

4. Consistency with natural surroundings:

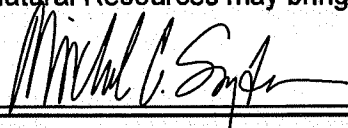
The plan is consistent with the natural surroundings. This is a replacement of the existing line.

5. Navigation, recreation, and other public uses:

There will be no change in navigation, recreation and other public uses. This is a replacement of the existing line. At the shoreline, the exlectrical service will be burried. Beyond the shoreline, it will be laid on the lake bottom.

G. Applicant 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 Chapter 11 of Title 29, § 401 et seq., 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: 8/28/15

H. 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: Kay Laman Date: 8/25/15

I. Permit Application Fees

1. Estimated project cost: Exempt

Select the most applicable permit description and requisite fee. If the proposed project involves more than one of the project types, multiple fees may apply. For example, a project involving structural erosion control and marina improvement will require both fees (3) and (4).

2. Non-structural erosion control project (e.g., rip rap):

Non-structural erosion control project: \$155.00		
Total:		\$ <u>Exempt</u>

3. Structural erosion control project (e.g., concrete wall replacement):

Structural erosion control project: \$250.00		
Total:		\$ <u>Exempt</u>

4. Other projects (e.g., marina improvements):

Other Project: \$300.00		
Project Cost Fee: 0.01 times project cost	Project cost (H1.) _____ x 0.01	
Total:		\$ <u>Exempt</u>

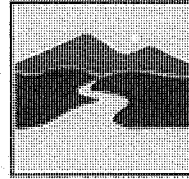
Submit this form and application fee, payable to:

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

Direct all correspondence or questions to Lake Encroachment Permitting at:
 ANR.WSMDShoreland@state.vt.us

For additional information visit: www.watershedmanagement.vt.gov

**Lake Encroachment
Application Addendum**
for a **Lake Encroachment Permit** under
Chapter 11 of Title 29, § 401 *et seq.*



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

For Lake Encroachment Permitting Use Only
Application Number: _____

This Abutting Land Owner Addendum is intended to accompany a completed *Lake Encroachment Permit Application* in instances of a proposed lake encroachment abutting land owners other than the applicant.

I. Abutting Land Owner Information	
1. Name:	Robert Hathaway, Hathaway Reality
Address:	31 Bobwhite Cirle, St. Albans Bay, VT 05481
2. Name:	
Address:	
3. Name:	
Address:	
4. Name:	
Address:	
5. Name:	
Address:	
6. Name:	
Address:	
7. Name:	
Address:	
8. Name:	
Address:	
9. Name:	
Address:	
10. Name:	
Address:	

Submit this form as an addendum to a complete Lake Encroachment Application to:

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

Direct all correspondence or questions to Lake Encroachment Permitting at:
ANR.WSMDShoreland@state.vt.us

For additional information visit: www.watershedmanagement.vt.gov



LAKE
CHAMPLAIN

UNDERWATER ELECTRIC CABLE

KILL KARE STATE PARK
SITE PLAN

KILL KARE
STATE PARK
ST. ALBANS, VT

BURTON ISLAND
SITE PLAN

BURTON
ISLAND

OVERALL MAP
SCALE: 1" = 150'

NOTE:
THESE MAPS WERE GENERATED USING DATA PROVIDED BY
THE VERMONT CENTER FOR GEOGRAPHICAL INFORMATION

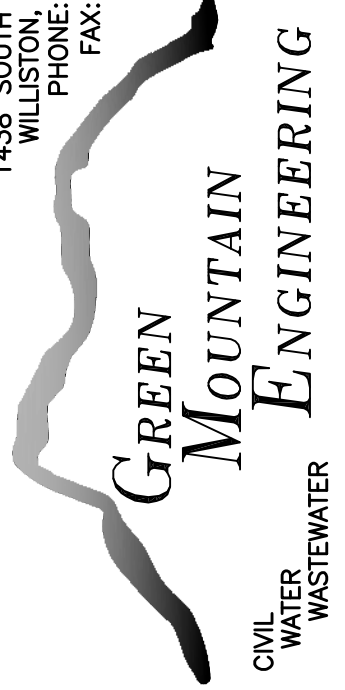
LEGEND

- PROPOSED ELECTRIC CABLE
- WATER DEPTH (FT)
- UTILITY POLE
- MOORING

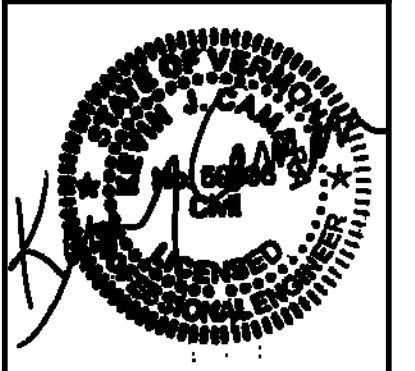


REV.	DATE	DESCRIPTION	BY

1438 SOUTH BROWNELL ROAD
WILLISTON, VERMONT 05495
PHONE: (802)862-5990
FAX: (802)862-7998

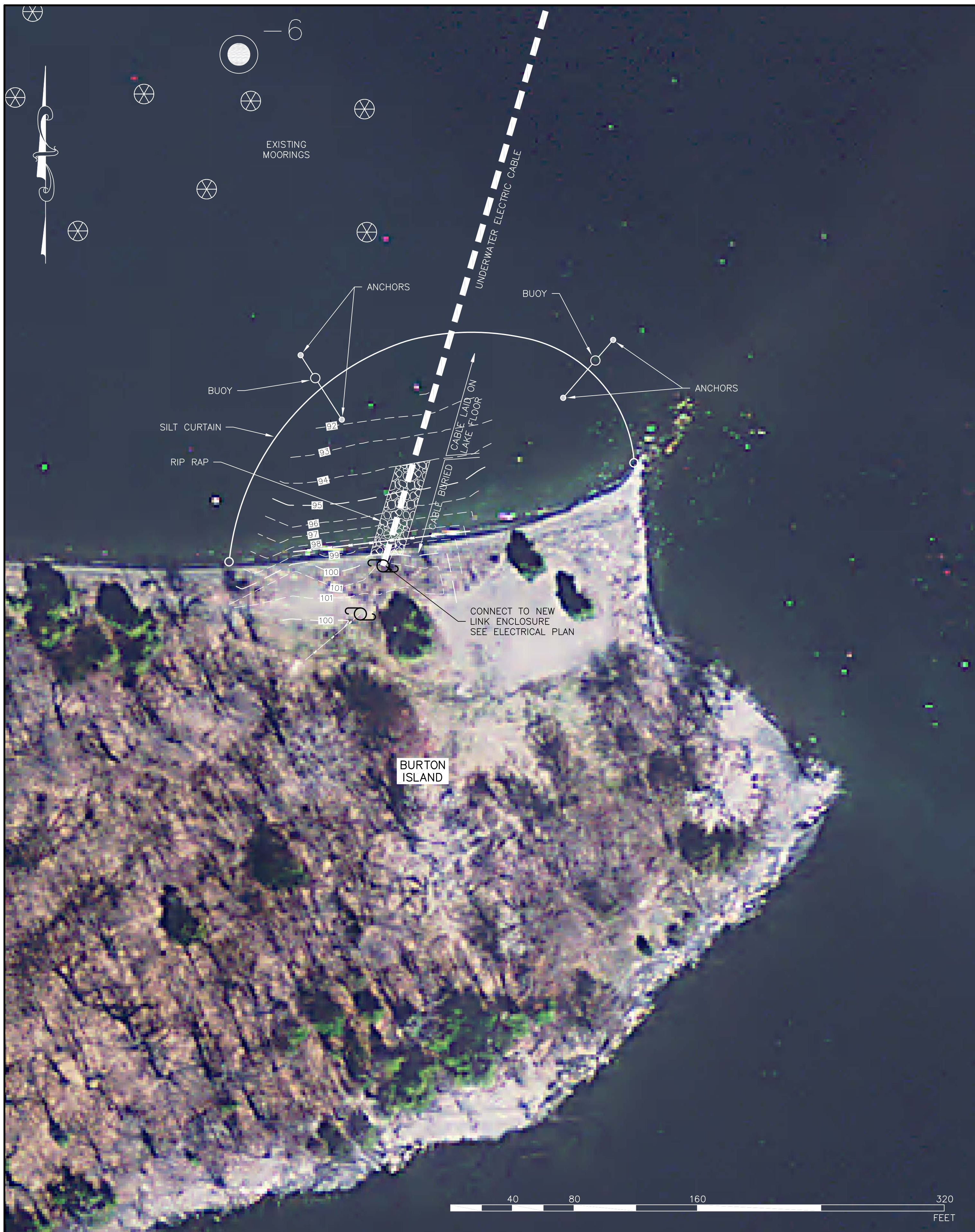


GREEN MOUNTAIN ENGINEERING
CIVIL WATER WASTEWATER



OVERALL MAP
PROJECT: BURTON ISLAND STATE PARK ELECTRICAL UPGRADE
CLIENT: KIRICK ENGINEERING ASSOCIATES, P.C.

DESIGNED: KJC	PLOT DATE: 08/04/15
DRAWN: RSO	SCALE: 1" = 150'
CHECKED: AH	DATE: AUG. 2015
PROJECT NO. 24-034	
DRAWING NO. 1	
SHEET 1 OF 3	



BURTON ISLAND SITE PLAN
SCALE: 1" = 40'

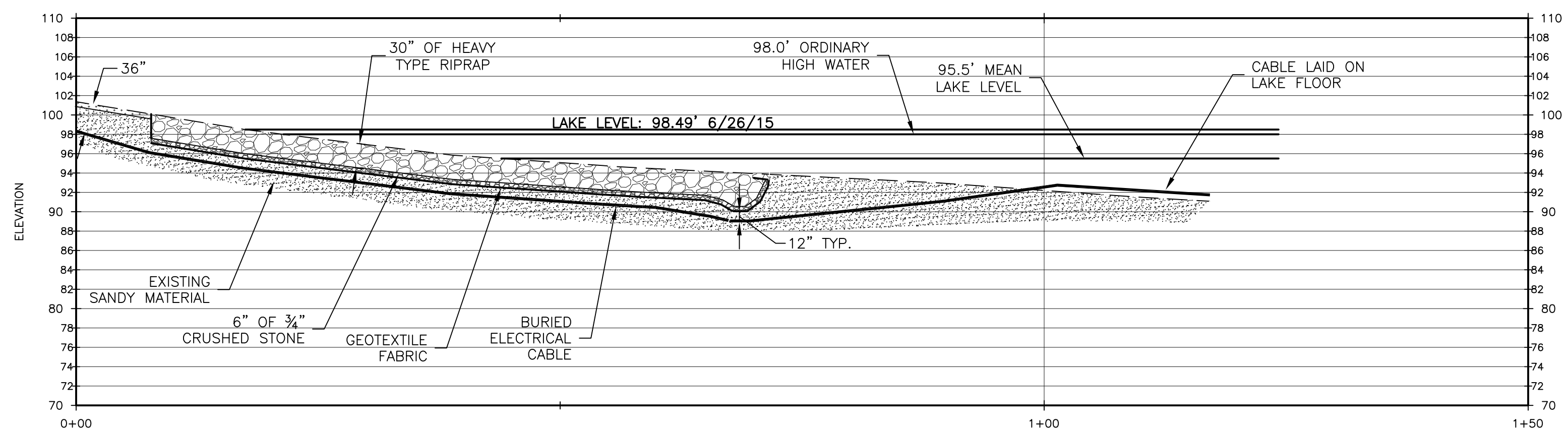


KILL KARE STATE PARK SITE PLAN
SCALE: 1" = 40'

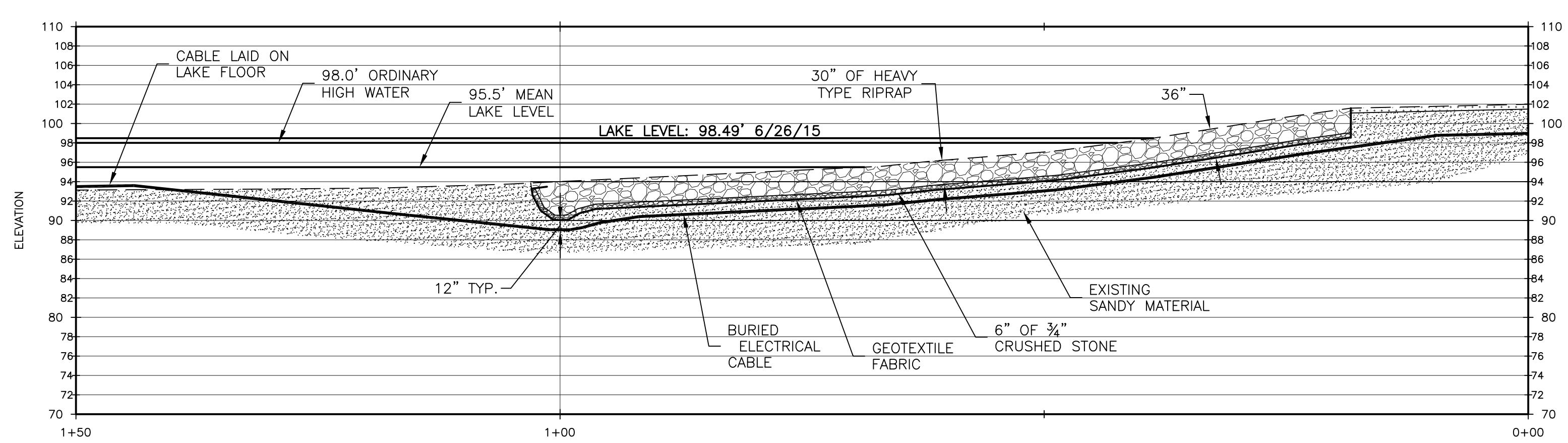
NOTE:
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DATA PROVIDED BY THE VERMONT CENTER
FOR GEOGRAPHICAL INFORMATION

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CHECKED: AH		DATE: AUG. 2015	
PROJECT NO. 24-034			
DRAWING NO. 2			
SHEET 2 OF 3			

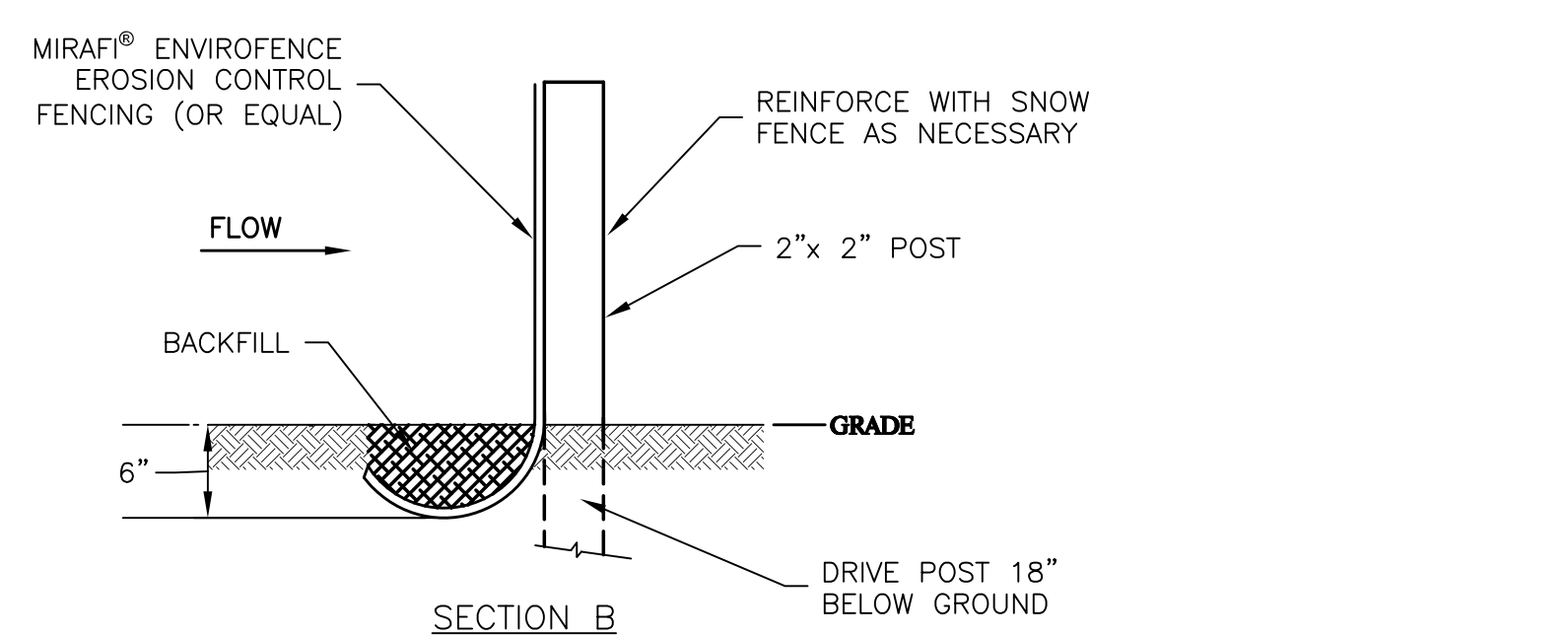
1438 SOUTH BROWNELL ROAD WILLISTON, VERMONT 05495 PHONE: (802)862-5990 FAX: (802)862-7998	 GREEN MOUNTAIN ENGINEERING CIVIL WATER WASTEWATER	REV.	DATE	DESCRIPTION	BY



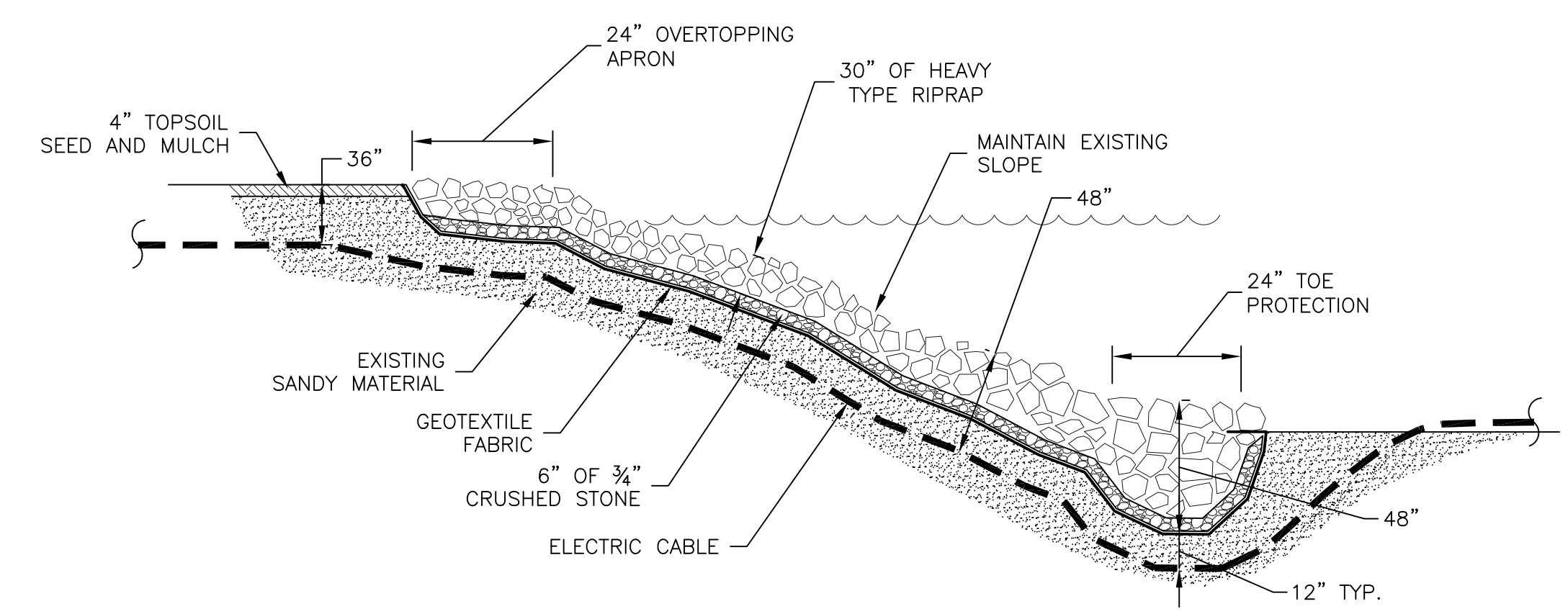
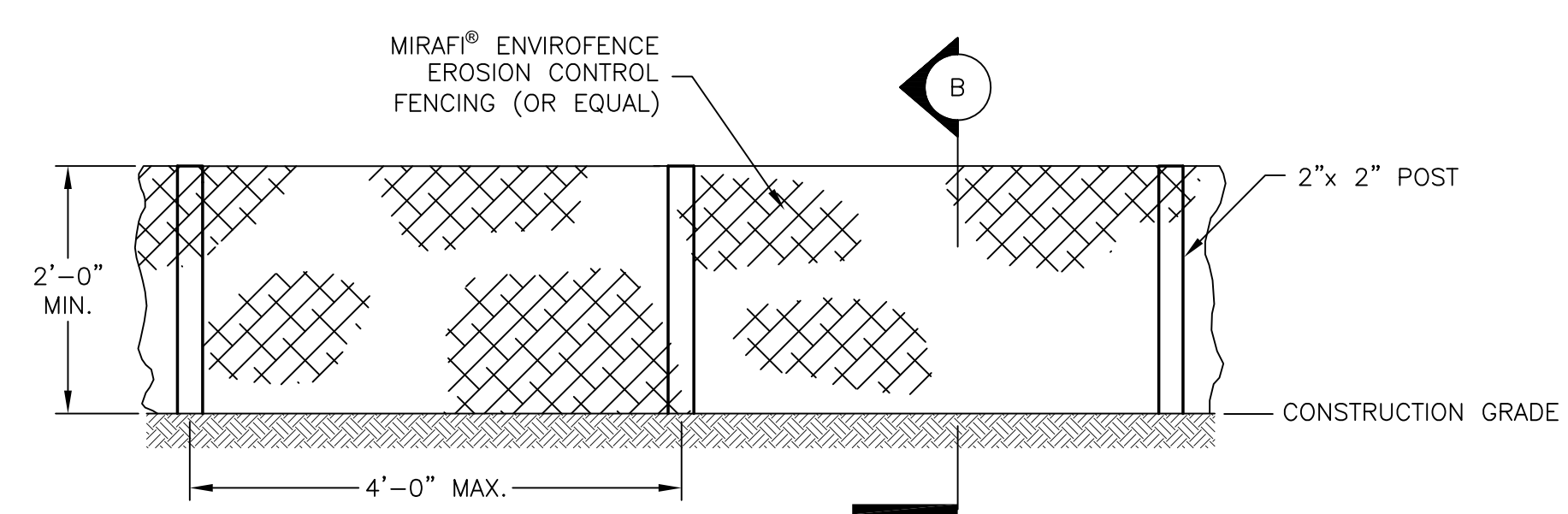
BURTON ISLAND PROFILE
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'



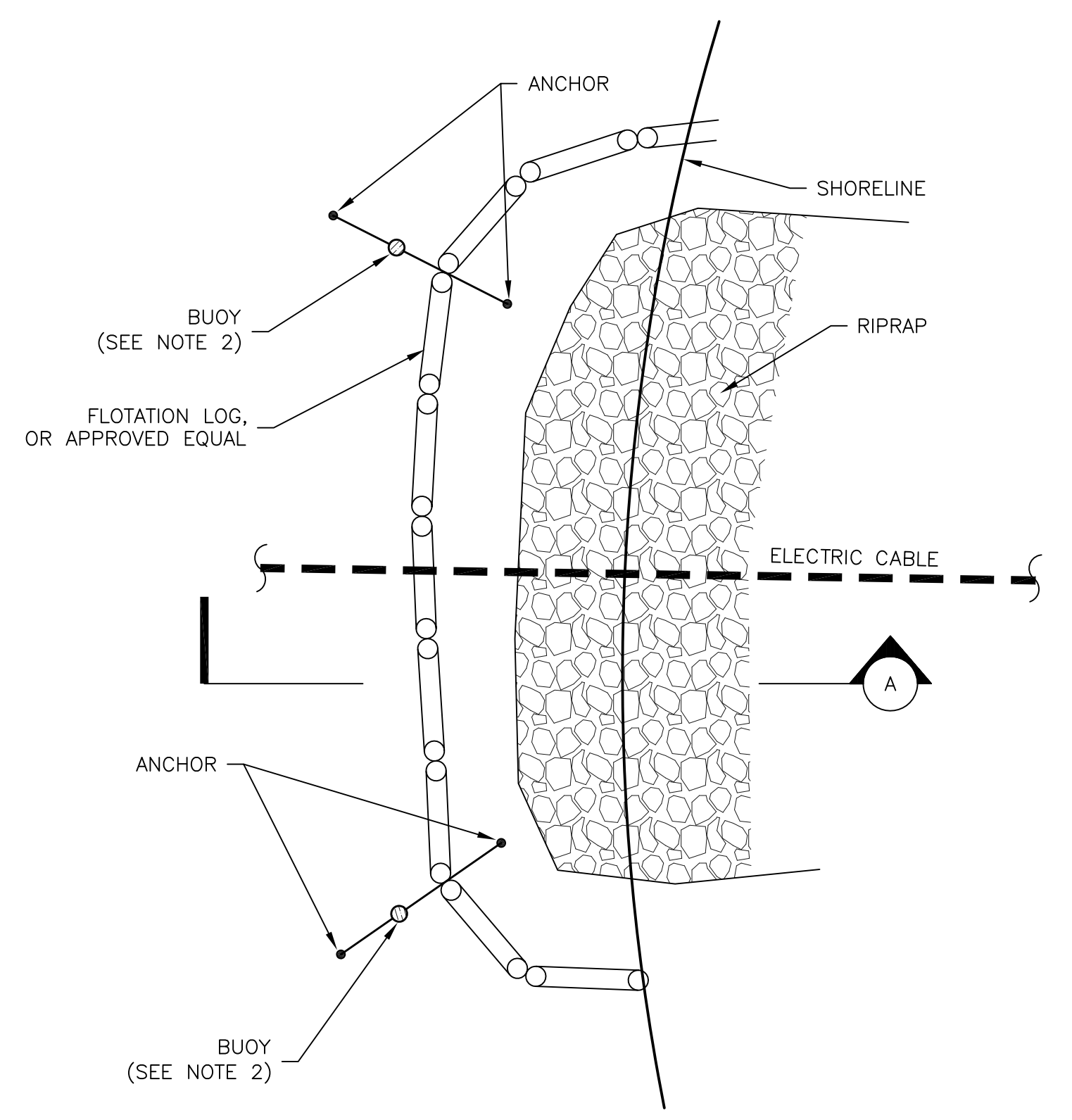
KILL KARE S.P. PROFILE
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'



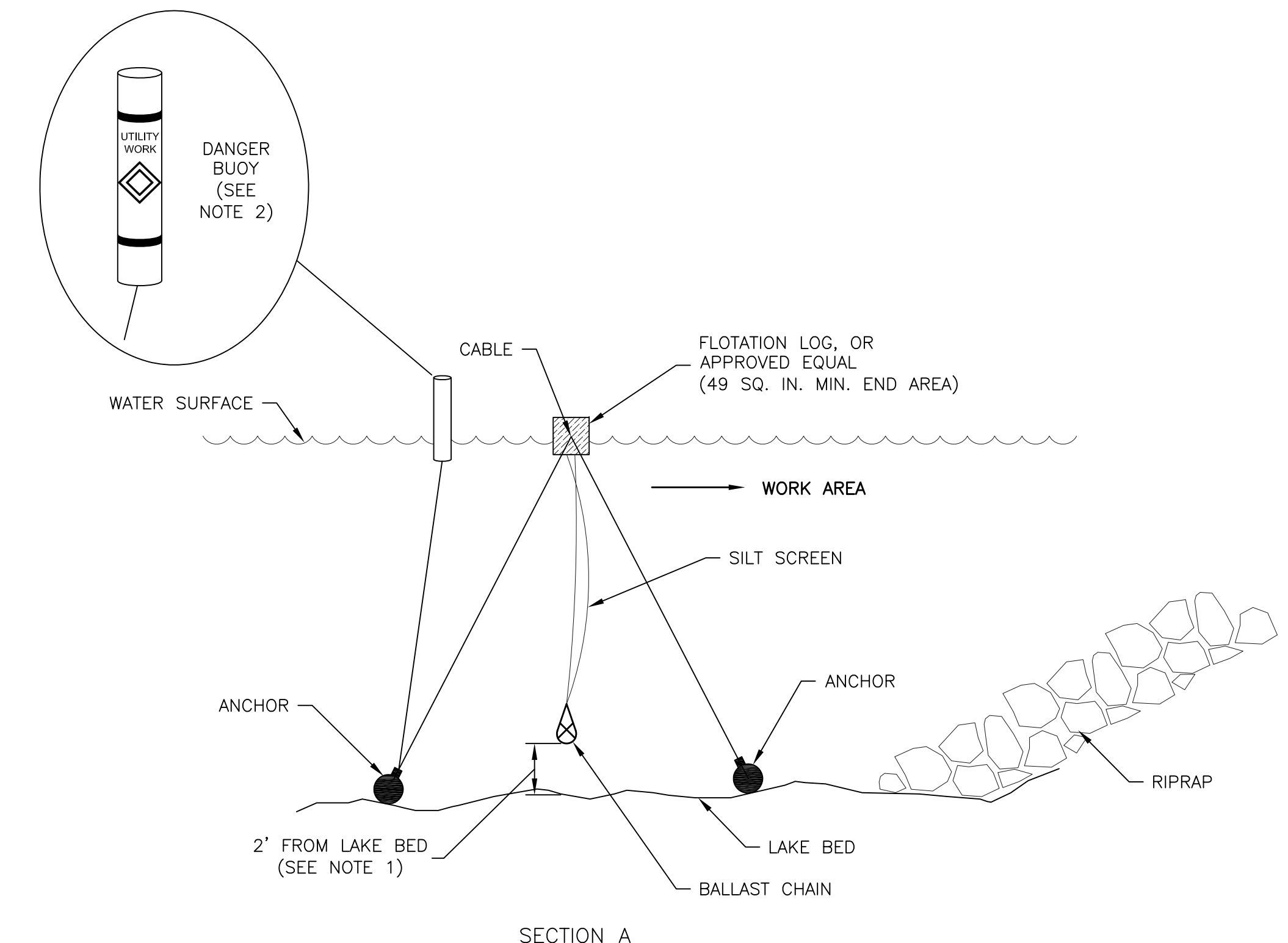
TEMPORARY EROSION CONTROL FENCE DETAIL
 SCALE: NONE



TYPICAL RIPRAP DETAIL
 SCALE: NONE



SILT CURTAIN PLACEMENT DETAIL
 SCALE: NONE



SECTION A

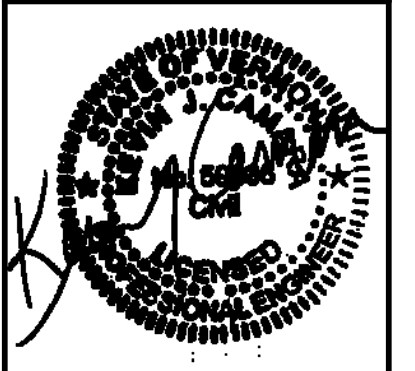
NOTES:

- 2' CLEARANCE BETWEEN BALLAST CHAIN AND LAKE BED SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.
- USE BUOY AS DIRECTED BY COAST GUARD OR U.S. ARMY CORPS OF ENGINEERS PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.

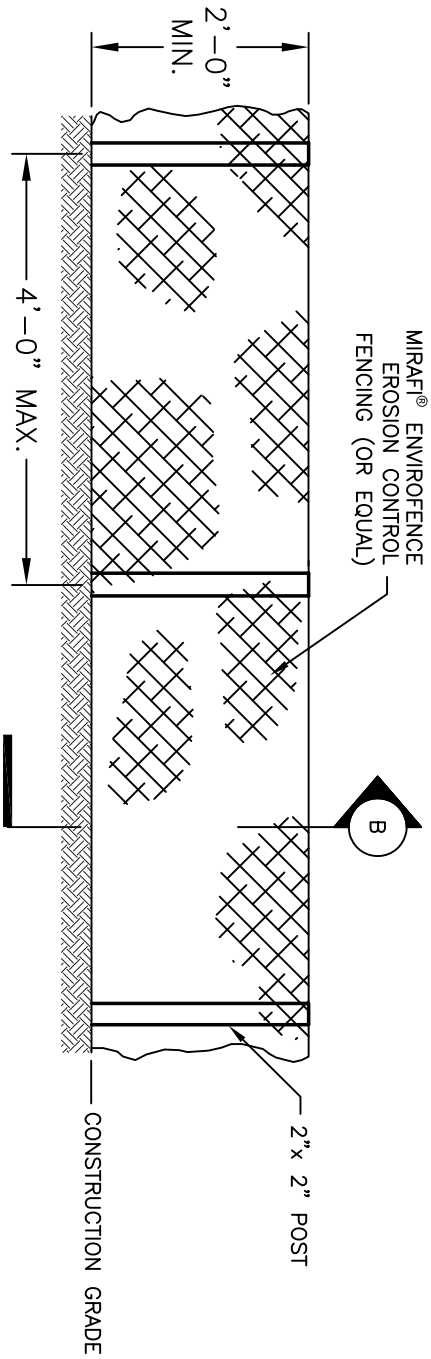
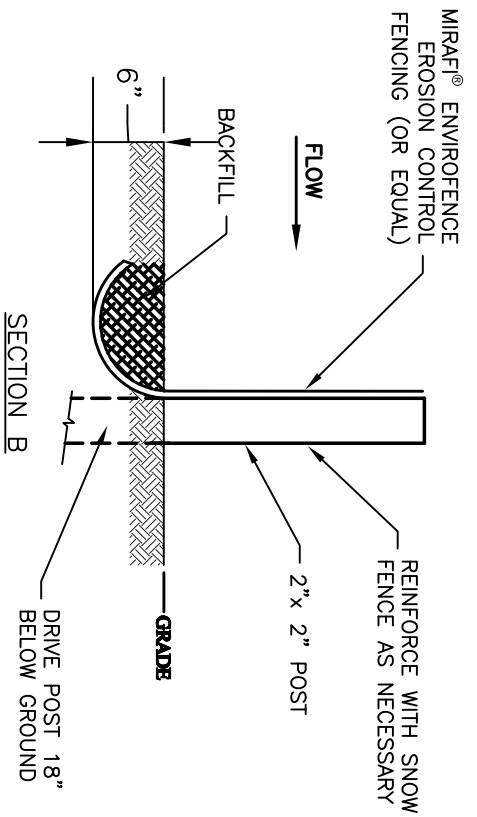
REV.	DATE	DESCRIPTION	BY

1438 SOUTH BROWNELL ROAD
 WILLISTON, VERMONT 05495
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GREEN MOUNTAIN ENGINEERING
 CIVIL WATER WASTEWATER




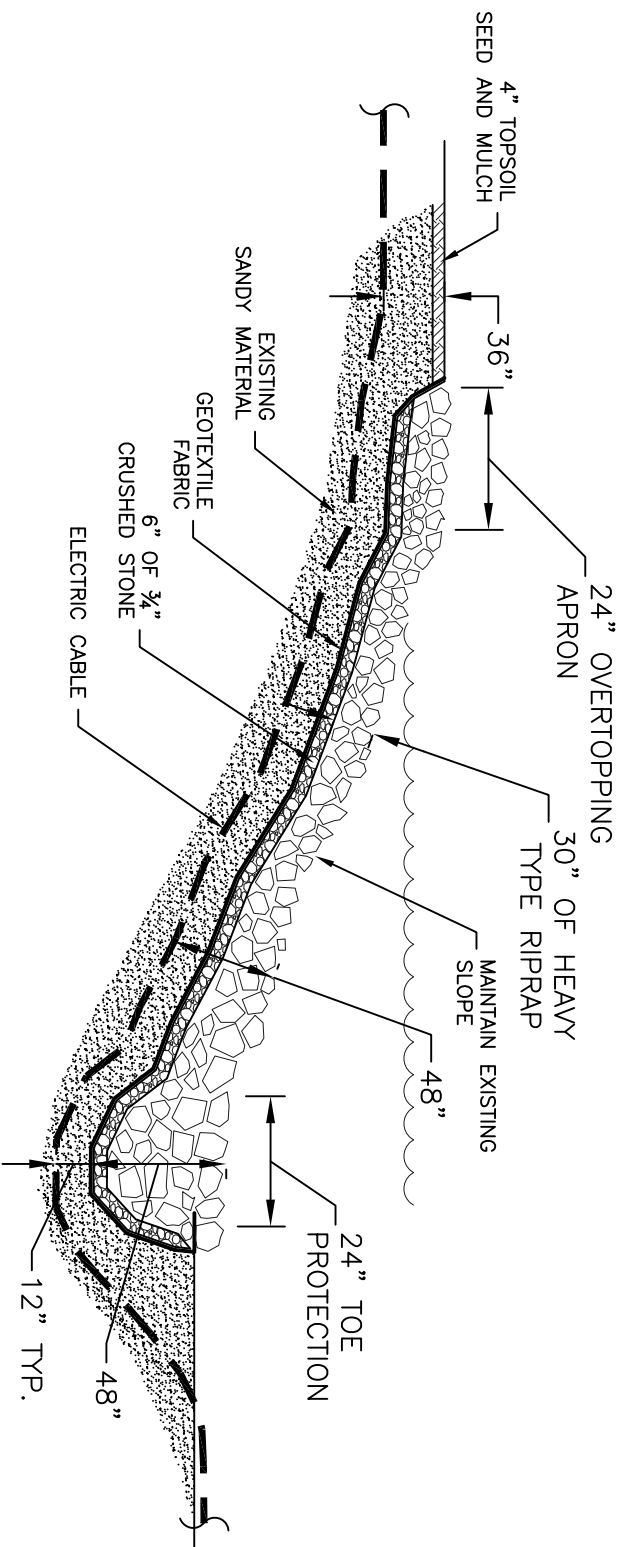
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SITE DETAILS AND PROFILES		08/04/15	
PROJECT		SCALE	
BURTON ISLAND STATE PARK ELECTRICAL UPGRADE		AS SHOWN	
CLIENT		DATE	
KIRICK ENGINEERING ASSOCIATES, P.C.		AUG. 2015	
PROJECT NO.			
24-034			
DRAWING NO.			
3			
SHEET 3 OF 3			



TEMPORARY EROSION CONTROL FENCE DETAIL

SCALE: NONE

 <p>GREEN MOUNTAIN ENGINEERING</p> <p>1436 SOUTH BROWNELL ROAD WILLISTON, VERMONT 05495 PHONE: (802)962-5590 FAX: (802)962-7596</p> <p>CIVIL WATER WASTEWATER</p>		<p>FILE: PROFILE DETAILS 06-19-15.dwg</p>	
<p>DRAWING TITLE</p> <p>SITE DETAILS</p>		<p>DESIGNED</p> <p>JLS</p>	
<p>PROJECT</p> <p>BURTON ISLAND STATE PARK ELECTRICAL UPGRADE</p>		<p>DRAWN</p> <p>RSO</p>	
<p>CLIENT</p> <p>KRICK ENGINEERING ASSOCIATES, P.C.</p>		<p>CHECKED</p> <p>AH</p>	
<p>SCALE</p> <p>NONE</p>		<p>PLOT DATE</p> <p>03/04/14</p>	
<p>DATE</p> <p>MAR 2014</p>		<p>PROJECT NO.</p> <p>24-034</p>	
<p>DRAWING NO.</p> <p>4</p>		<p>SHEET 4 OF 8</p>	



TYPICAL RIPRAP DETAIL
SCALE: NONE

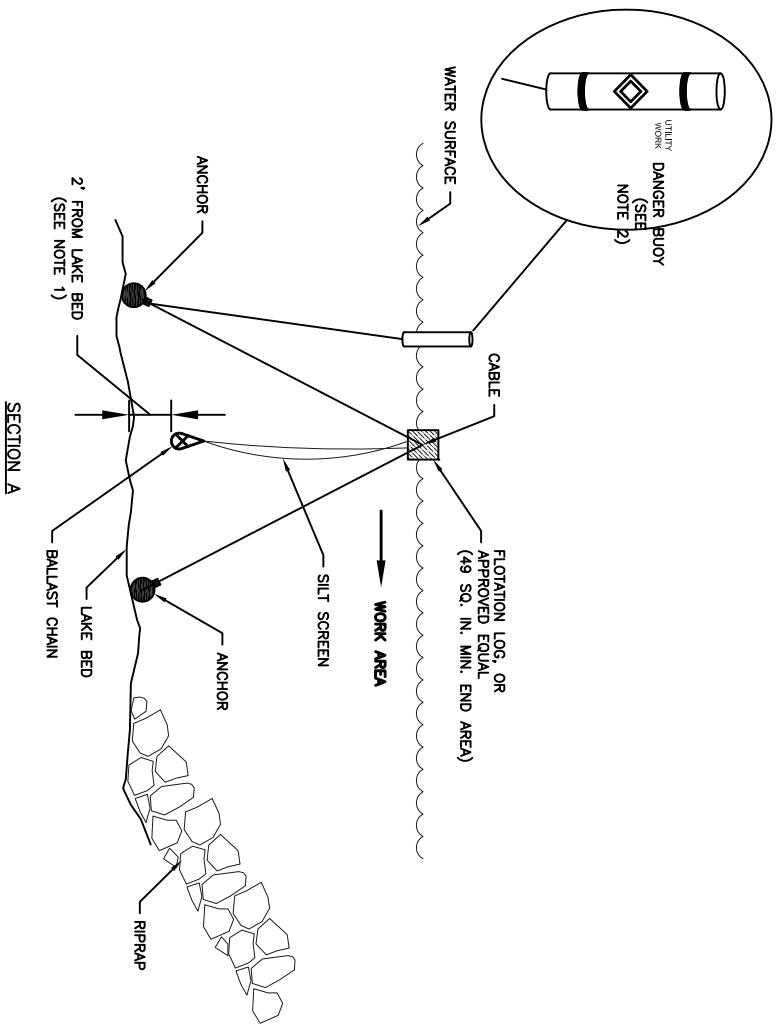
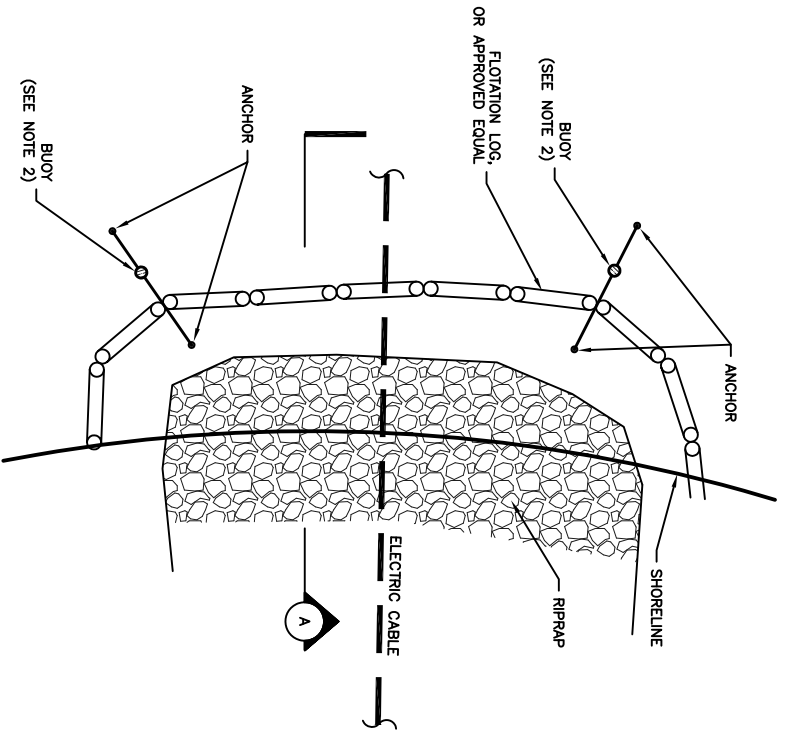
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WILLISTON, VERMONT 05495
PHONE: (802)962-5590
FAX: (802)962-7596

GREEN MOUNTAIN ENGINEERING

CIVIL
WATER
WASTEWATER


FILE: PROFILE DETAILS 08-19-15.dwg

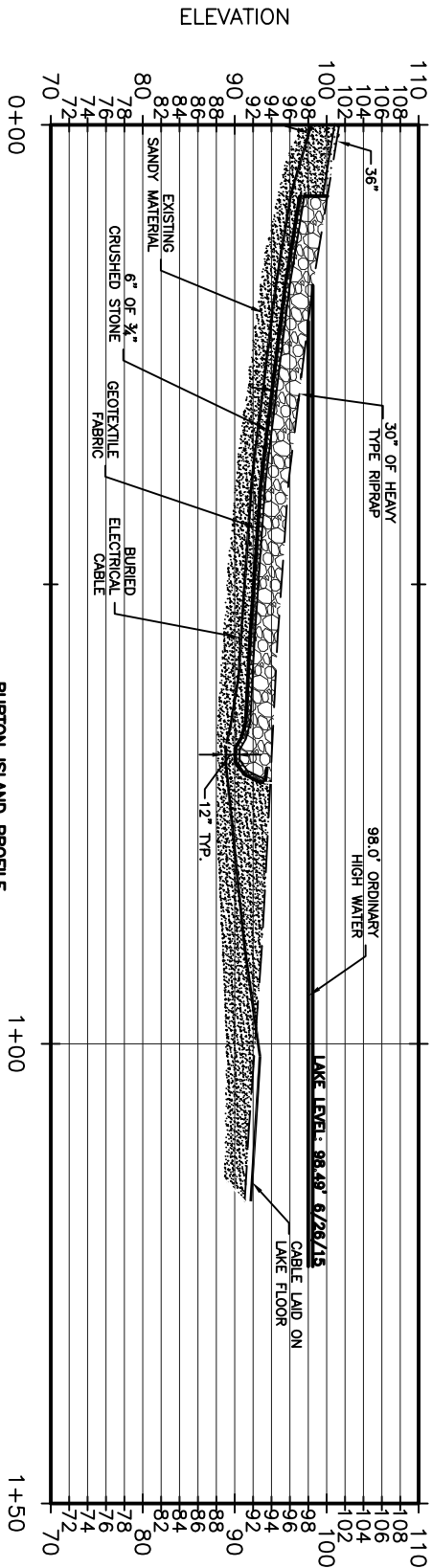
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SITE DETAILS		JLS		24-034	
PROJECT		DRAWN		DRAWING NO.	
BURTON ISLAND STATE PARK ELECTRICAL UPGRADE		RSO		5	
CLIENT		CHECKED		SHEET 5 OF 8	
KRICK ENGINEERING ASSOCIATES, P.C.		AH			
		PLOT DATE			
		03/04/14			
		SCALE			
		NONE			
		DATE			
		MAR, 2014			



- NOTES:**
1. 2' CLEARANCE BETWEEN BALLAST CHAIN AND LAKE BED SHALL BE MAINTAINED DURING CONSTRUCTION PERIOD.
 2. USE BUOY AS DIRECTED BY COAST GUARD OR U.S. ARMY CORPS OF ENGINEERS PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.


SILT CURTAIN PLACEMENT DETAIL
SCALE: NONE

 <p>GREEN MOUNTAIN ENGINEERING</p> <p>1436 SOUTH BROWNELL ROAD WILLISTON, VERMONT 05495 PHONE: (802)962-5590 FAX: (802)962-7596</p> <p>CIVIL WATER WASTEWATER</p>		<p>FILE: PROFILE DETAILS 08-19-15.dwg</p>	
<p>DRAWING TITLE</p> <p>SITE DETAILS</p>		<p>DESIGNED: JLS</p> <p>DRAWN: RSO</p> <p>CHECKED: AH</p> <p>DATE: MAR 2014</p>	
<p>PROJECT: BURTON ISLAND STATE PARK ELECTRICAL UPGRADE</p> <p>CLIENT: KRICK ENGINEERING ASSOCIATES, P.C.</p>		<p>PROJECT NO. 24-034</p> <p>DRAWING NO. 6</p> <p>SHEET 6 OF 8</p>	



BURTON ISLAND PROFILE
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'

CIVIL WATER WASTEWATER



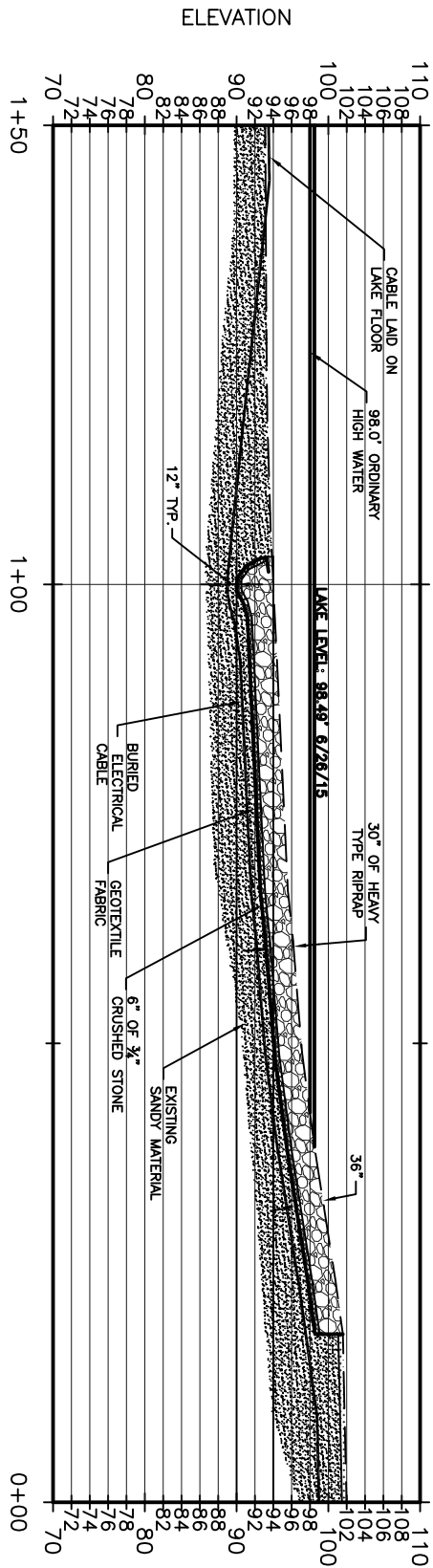
GREEN MOUNTAIN ENGINEERING

1436 SOUTH BROWNELL ROAD
 WILLISTON, VERMONT 05495
 PHONE: (802)962-5590
 FAX: (802)962-7596

FILE: PROFILE DETAILS 06-19-15.dwg

DRAWING TITLE	
SITE PROFILE	
PROJECT	BURTON ISLAND STATE PARK ELECTRICAL UPGRADE
CLIENT	KIRICK ENGINEERING ASSOCIATES, P.C.

DESIGNED	JLS	PROJECT NO.	24-034
DRAWN	RSO	DRAWING NO.	7
CHECKED	AH	SHEET	7 OF 8
DATE	MAR. 2014		



KILL KARE S.P. PROFILE
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'

GREEN MOUNTAIN ENGINEERING

1436 SOUTH BROWNELL ROAD
 WILLISTON, VERMONT 05495
 PHONE: (802)962-5590
 FAX: (802)962-7596

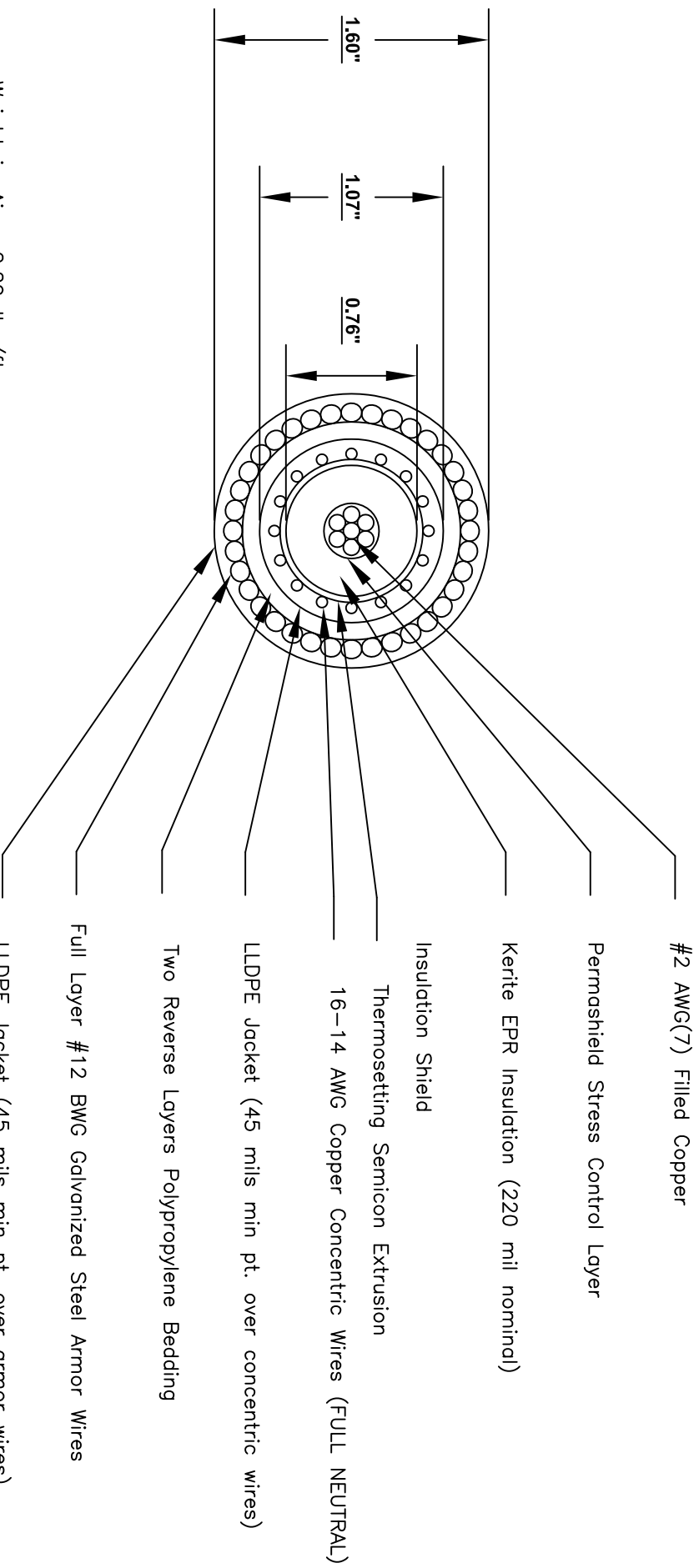
CIVIL
 WATER
 WASTEWATER

FILE: PROFILE DETAILS 08-19-15.dwg

DRAWING TITLE		DESIGNED	
SITE PROFILE		JLS	
		RSO	
PROJECT		CHECKED	
BURTON ISLAND STATE PARK ELECTRICAL UPGRADE		AH	
CLIENT		PLOT DATE	
KRICK ENGINEERING ASSOCIATES, P.C.		03/04/14	
		SCALE	
		AS SHOWN	
		DATE	
		MAR. 2014	

PROJECT NO.	24-034
DRAWING NO.	8
	SHEET 8 OF 8

KERITE CATALOG NO. 102G15 - K110G

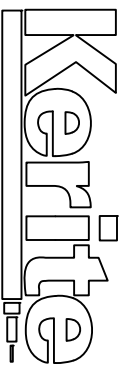


Approx. Weight in Air: 2.29 lbs/ft

Approx. Weight in Fresh Water: 1.42 lbs/ft

Approx. Weight in Salt Water: 1.40 lbs/ft

Note: All dimensional data subject to manufacturing tolerances.



#2 AWG(7) FILLED CU 15KV SPS 133%, 220 MIL KERITE(EP), EXTRUDED SEMICON, 16-#14 AWG CU CONC WIRES, AND 50 MIL BLACK LLDPE JACKET, FULL LAYER #12 BWG GALV. ST. ARMOR WIRES, 50 MIL LLDPE JACKET OVERALL

Drawing:	102G15-K110G
Drawn By:	<i>M&J</i>
Scale:	NONE
Appr:	Date: 10/20/15