

# Land Design Solutions

Land Planning, Site Planning and Landscape Architecture

## Transmittal Letter

**To:** Mr. David Cherry, Project Manager  
Maine Department of Environmental Protection  
Portland, Maine

**Date:** December 1, 2014

**From:** Peter Biegel

**Project:** Slope Stabilization Project - 60 Sullivan Street, Portland

**CC:** City of Portland  
Army Corps of Engineers  
Carl Cullenberg, General Contractor

Letter                       For Submission                       Mailed  
 Application                       For Review                       Delivered  
 Plans                       For Your Records  
 Proposal                       As Requested

Drawing Number	Revision Number	No. of Copies	Description
-	-	2	NRPA Individual Permit Application & Supporting Documentation
-	-	-	Application Fee of \$474 (check)
-	-	2	Existing Conditions Plan
C-101	A	2	Site Plan & Details
C-102	A	2	Stabilization Sections Plan

Please notify our office should you have any questions or require additional information.

Thank you,  
Peter

**Natural Resource Protection Act  
Individual Permit Application**

**Project:**

*Coastal Shoreline Stabilization*

*60 Sullivan Street  
Portland, Maine*

**Owner & Applicant:**

John M. Woodhead  
1276 N Wayne Street #707  
Arlington, VA 22201

**November 28, 2014**

Prepared By:

**Land Design Solutions  
P.O. Box 316, 160 Longwoods Road  
Cumberland, Maine 04021**

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# APPLICATION FOR A NATURAL RESOURCES PROTECTION ACT PERMIT

→ PLEASE TYPE OR PRINT IN **BLACK INK ONLY**

<b>1. Name of Applicant:</b> John M. Woodhead		<b>5. Name of Agent:</b> Land Design Solutions Contact: Peter Biegel	
<b>2. Applicant's Mailing Address:</b> 1276 N Wayne Street #707 Arlington, VA 22201		<b>6. Agent's Mailing Address:</b> P.O. Box 316 Cumberland, ME 04021	
<b>3. Applicant's Daytime Phone #:</b>		<b>7. Agent's Daytime Phone #:</b> (207) 939-1717	
<b>4. Applicant's Email Address (Required from either applicant or agent):</b>		<b>8. Agent's Email Address:</b> pbiegel@landdesignsolutions.com	
<b>9. Location of Activity: (Nearest Road, Street, Rt.#)</b> 60 Sullivan Street		<b>10. Town:</b> Portland	<b>11. County:</b> Cumberland
<b>12. Type of Resource: (Check all that apply)</b>	<input type="checkbox"/> River, stream or brook <input type="checkbox"/> Great Pond <input checked="" type="checkbox"/> Coastal Wetland <input type="checkbox"/> Freshwater Wetland <input type="checkbox"/> Wetland Special Significance <input type="checkbox"/> Significant Wildlife Habitat <input type="checkbox"/> Fragile Mountain		<b>13. Name of Resource:</b> Casco Bay (Atlantic Ocean)
			<b>14. Amount of Impact: (Sq.Ft.)</b> Fill: approximately 303 s.f. Dredging/Veg Removal/Other:
<b>15. Type of Wetland: (Check all that apply)</b>	<input type="checkbox"/> Forested <input type="checkbox"/> Scrub Shrub <input type="checkbox"/> Emergent <input type="checkbox"/> Wet Meadow <input type="checkbox"/> Peatland <input type="checkbox"/> Open Water <input checked="" type="checkbox"/> Other <u>Inter-tidal</u> area	<b>FOR FRESHWATER WETLANDS</b>	
		Tier 1 <input type="checkbox"/> 0 - 4,999 sq ft <input type="checkbox"/> 5,000-9,999 sq ft <input type="checkbox"/> 10,000-14,999 sq ft	Tier 2 <input type="checkbox"/> 15,000 – 43,560 sq. ft. <input type="checkbox"/> > 43,560 sq. ft. or smaller than 43,560 sq. ft., not eligible for Tier 1
<b>16. Brief Activity Description:</b> Proposed slope stabilization for an eroding embankment.			
<b>17. Size of Lot or Parcel &amp; UTM Locations:</b> <input type="checkbox"/> 5,317 square feet, or <input type="checkbox"/> 0.122 acres		UTM Northing: _____ UTM Easting: _____	
<b>18. Title, Right or Interest:</b>		<input checked="" type="checkbox"/> own <input type="checkbox"/> lease <input type="checkbox"/> purchase option <input type="checkbox"/> written agreement	
<b>19. Deed Reference Numbers:</b> Book#: 13549 Page: 285		<b>20. Map and Lot Numbers:</b> Map #: 432A Lot #: A-6001	
<b>21. DEP Staff Previously Contacted:</b> David Cherry		<b>22. Part of a larger project:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>23. Resubmission of Application?:</b>		<b>After-the-Fact:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes → <input checked="" type="checkbox"/> No		<b>If yes, previous application #</b>	<b>Previous project manager:</b>
<b>24. Written Notice of Violation?:</b>		<b>25. Previous Wetland Alteration:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Yes → <input checked="" type="checkbox"/> No		<b>If yes, name of DEP enforcement staff involved:</b>	
<b>26. Detailed Directions to the Project Site:</b> Washington Ave. headed south, take left on Veranda Street, take a Right on Kensington Street, take a left on Windsor Terrace/Island Street. Destination is intersection of Island Street and Sullivan Street.			
<b>TIER 1</b>		<b>TIER 2/3 AND INDIVIDUAL PERMITS</b>	
<input type="checkbox"/> Title, right or interest documentation <input type="checkbox"/> Topographic Map <input type="checkbox"/> Narrative Project Description <input type="checkbox"/> Plan or Drawing (8 1/2" x 11") <input type="checkbox"/> Photos of Area <input type="checkbox"/> Statement of Avoidance & Minimization <input type="checkbox"/> Statement/Copy of cover letter to MHPC		<input checked="" type="checkbox"/> Title, right or interest documentation <input checked="" type="checkbox"/> Topographic Map <input checked="" type="checkbox"/> Copy of Public Notice/Public Information Meeting Documentation <input checked="" type="checkbox"/> Wetlands Delineation Report (Attachment 1) that contains the information listed under Site Conditions <input checked="" type="checkbox"/> Alternatives Analysis (Attachment 2) including description of how wetland impacts were Avoided/Minimized <input checked="" type="checkbox"/> Erosion Control/Construction Plan <input type="checkbox"/> Functional Assessment (Attachment 3), if required <input type="checkbox"/> Compensation Plan (Attachment 4), if required <input checked="" type="checkbox"/> Appendix A and others, if required <input checked="" type="checkbox"/> Statement/Copy of cover letter to MHPC <input type="checkbox"/> Description of Previously Mined Peatland, if required	
<b>28. FEES Amount Enclosed:</b> \$379 processing Fee + \$95 Licensing Fee = \$474			

**CERTIFICATIONS AND SIGNATURES LOCATED ON PAGE 2**



**IMPORTANT:** IF THE SIGNATURE BELOW IS NOT THE APPLICANT'S SIGNATURE, ATTACH LETTER OF AGENT AUTHORIZATION SIGNED BY THE APPLICANT.

By signing below the applicant (or authorized agent), certifies that he or she has read and understood the following :

**DEP SIGNATORY REQUIREMENT**

**PRIVACY ACT STATEMENT**

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor a permit be issued.

**CORPS SIGNATORY REQUIREMENT**

USC Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry shall be fined not more than \$10,000 or imprisoned not more than five years or both. I authorize the Corps to enter the property that is subject to this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein.

**DEP SIGNATORY REQUIREMENT**

"I certify under penalty of law that I have personally examined the information submitted in this document and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate, and complete. I authorize the Department to enter the property that is the subject of this application, at reasonable hours, including buildings, structures or conveyances on the property, to determine the accuracy of any information provided herein. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Further, I hereby authorize the DEP to send me an electronically signed decision on the license I am applying for with this application by emailing the decision to the address located on the front page of this application (see #4 for the applicant and #8 for the agent)."

*Peter B. Brigel* (AGENT)  
SIGNATURE OF AGENT/APPLICANT

Date: 11/28/2014

**NOTE:** Any changes in activity plans must be submitted to the DEP and the Corps in writing and must be approved by both agencies prior to implementation. Failure to do so may result in enforcement action and/or the removal of the unapproved changes to the activity.

(pink)

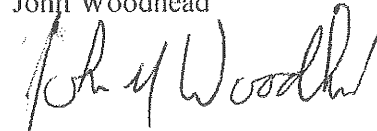
1276 N. Wayne Street #707  
Arlington, VA 22201  
June 10, 2014

**RE: 60 Sullivan Street  
Slope Stabilization Project**

To whom it may concern:

Please consider this letter as authorization for Land Design Solutions to act as the agent relative to the local, state and federal permitting required for the referenced project.

Sincerely,  
John Woodhead

A handwritten signature in black ink that reads "John Woodhead". The signature is written in a cursive style with a large, sweeping initial "J".

Owner

002450

WARRANTY DEED

Maine Statutory Short Form

KNOW ALL MEN BY THESE PRESENTS that WILLIAM F. MULLER and JENNIFER T. MULLER, of Falmouth, Maine, for consideration paid, grant to JOHN M. WOODHEAD, whose mailing address is 197 Dartmouth Street, Portland, Maine 04103, with warranty covenants, the property situated in Portland, Cumberland County, Maine described as follows:

A certain lot or parcel of land with the buildings thereon, situated on the northeasterly side of Fairfield Street (also known as Sullivan Street) in said Portland, and being a portion of lot numbered 147 in Marine Terrace as delineated on plan recorded in Cumberland County Registry of Deeds in Plan Book 10, Page 103, and being bounded and described as follows:

Beginning on the northeasterly side of said Fairfield Street at the most southerly corner of lot number 148 on said plan, said corner being about seven hundred fourteen and seventy-four hundredths (714.74) feet southeasterly from the southeasterly side of Veranda Street and running thence southeasterly by said Fairfield Street twenty-six and five hundredths (26.06) feet to land conveyed by Lillian Stover to William R. Totten by deed dated January 28, 1910, and recorded in said Registry of Deeds in Book 851, Page 328, thence north 40° 35' east, by said Totten land, forty-eight and ninety-five hundredths (48.95) feet to a point; thence south 48° 5' east, to the southeasterly boundary of said lot numbered 147 as delineated on said Plan and to the shore line at low water mark; thence following said shore line northeasterly and northwesterly to the southeasterly line of lot numbered 148; thence southwesterly by said lot numbered 148, one hundred fourteen (114) feet, more or less, to the point of beginning; Also all land in said lot numbered 147 between high and low water mark not conveyed by said Stover to said Totten.

Meaning and intending to convey, and hereby conveying, the same premises described in a deed from Wilfred J. Brown, Jr. and Jennifer T. Muller, f/k/a Jennifer T. Brown to William F. Muller and Jennifer T. Muller, dated January 29, 1990 and recorded in said Registry in Book 9073, Page 137.

WITNESS our hands and seals this 6 day of the month of January, 1998

Witness

Witness

to both

William F. Muller

Jennifer T. Muller

MAINE REAL ESTATE TAX PAID

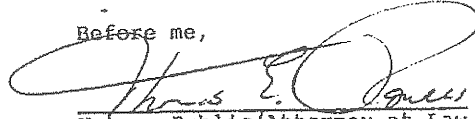
BK 13549PG286

STATE OF MAINE  
Cumberland, ss.

January 6, 1998

Then personally appeared the above-named William F. Muller and Jennifer T. Muller, and acknowledged the foregoing instrument to be their free act and deed.

Before me,

  
Thomas E. Powers  
Notary Public/Attorney at Law

Thomas E. Powers  
Printed Name

RECEIVED  
REGISTRY OF DEEDS  
1998 JAN 14 PM 3:09  
CUMBERLAND COUNTY  
*John B O'Brien*

## **Attachment 1**

### **Activity Description**

Although the owner has worked to maintain the area on top of the embankment the existing slope continues to erode. The slope is quite steep with numerous areas of erosion which are not able to be re-vegetated. In addition a very large tree was uprooted leaving a large hole in the embankment which continues to erode. The top of the eroding bank is approximately 8' from the corner of the deck to the top of the slope, the owner would like to stabilize the slope before he loses anymore land to slump and erosion.

The proposed design calls for a stone riprap revetment from the toe of the slope at approximately elevation 5.9 up past the splash zone to elevation 18.5, and from that point up to the top of the slope , approximately elevation 22.5 to 23.5 grass, shrubs and erosion control blanket is proposed.

## **Attachment 2 Alternatives Analysis**

We have reviewed the erosion situation at the project site with regard to other alternatives which would resolve the embankments erosion and slumping issue. The existing vegetation on the embankment has not been able to spread and/or hold the soil, and we do not believe that just re-vegetating the existing embankment is enough to provide protection from upslope stormwater run-off, and tidal activity at the toe of the slope during storms. We believe that riprap revetment is required to hold the soil, stabilize the embankment and prevent eventual damage to the existing residence.

**Attachment 3**  
**Location Map**



(CUMBERLAND CENTER)



PORTLAND WEST QUADRANGLE  
MAINE  
TOPOGRAPHIC SERIES (FREEPORT)

070° 18' 08.22" W  
043° 43' 47.09" N

(CUMBERLAND CENTER)

070° 12' 41.10" W  
043° 43' 47.09" N



(PORTLAND WEST)

(SOUTH HARPSWELL)

60 Sullivan Street - Proposed Project Site.

043° 38' 11.95" N  
070° 18' 08.22" W

070° 12' 41.10" W  
043° 38' 11.95" N

(PROUTS NECK)

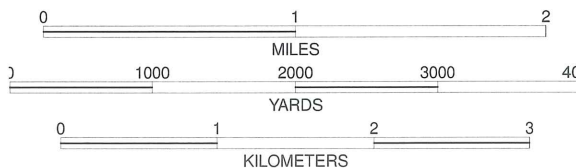
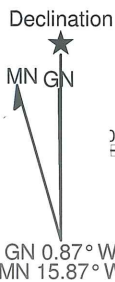
(PROUTS NECK)  
SCALE 1:48000

(Unavailable)

Produced by MyTopo Terrain Navigator  
Topography based on USGS 1:24,000  
Maps

North American 1983 Datum (NAD83)  
Polyconic Projection

To place on the predicted North American  
1927 move the projection lines 9M N and  
41M E



PORTLAND WEST, ME  
1956

CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM 1929



**Attachment 4**  
**Photographs & Overhead Drawing**



Photograph #1 looking at left shoreline from mud flat. Although there are numerous plant species on the embankment the majority of the vegetation is bamboo.



Photograph #2 looking at right shoreline from mud flat.





Photograph #3 looking down the shoreline.



Photograph #4 Miscellaneous granite, concrete & stone along base of slope.





Photograph # 5 Slope slump where trees have uprooted.



Photograph #6 concrete & stone piled along base of slope.





Photograph #7 Muscle Shells and Periwinkles are common in the area between the rocky toe of slope and the Smooth Cordgrass.



Photograph #8 drain pipe outlet on the embankment. The drain is connected to the roof gutter system.



**Attachments 5 & 6**  
**Plan and Elevation & Cross Sections**

See Plans:

- Existing Conditions Plan
- C-101 Site Plan & Details
- C-102 Stabilization Sections

## **Attachment 7 Construction Plan**

The proposed stone riprap revetment is to be constructed this fall. The Contractor (Dugas Trucking & Excavating) has spoken with the project's northern abutter (Paul Vachon) and received permission to utilize his driveway and property to access the shoreline for the project's construction purposes. The Contractor estimates he will need approximately 300 cubic yards of stone riprap to construct the stone revetment per the proposed design. The Contractor will prepare the slope by removing loose material and grubbing and remove them from the site. The exposed ground will be compacted and fabric placed over the surface upon which the riprap will be placed by an excavator. The stone used for the riprap shall be angular and of various sizes so that it will "lock" together and fill in the voids. The stone shall be uniform in color so that visually it blends in with the surroundings as well as can be expected.

The Contractor intends to utilize a track backhoe and hand labor to install the riprap along the bottom of the slope and the plantings along the top. No work will be performed in the water. However, approximately 303 s.f. of the inter-tidal area (HAT elevation 7.4 down to Normal High Water). We anticipate the project taking approximately four weeks to complete.

## **Attachment 8**

### **Erosion Control Plan**

The Contractor will be installing geotextile fabric and erosion control blanket over the re-graded embankment, and utilizing seeding and mulching over other areas of incidental disturbance to minimize erosion.

1. Erosion and sedimentation control during construction will consist of a stabilized construction entrance and the timing of construction activities so that the lower area of the slope is only under construction during the low tide cycle and is permanently stabilized by the end of that cycle each day.
2. The top of the slope is proposed to be re-vegetated. Erosion control blanket is specified which can be placed as the work proceeds.
3. The construction entrance shall consist of crushed stone entrance to prevent sediment tracking off-site. The contractor shall be responsible for minimizing sediment tracking onto Sullivan Street and street sweeping as required.
4. General erosion control practices for the proposed project:
  - Erosion control practices shall conform to all local (city of Portland), State (nrpa) and Federal (aceo) erosion control requirements.
  - Contractor shall not work any equipment within the water.
  - Contractor shall limit demolition removal, re-grading and installation of toe stones and infill rock to low tide cycle.
  - Contractor shall monitor the site for erosion on a daily basis and after rain events.
  - Contractor shall correct any erosion problems immediately.



**Attachment 9**  
**Site Condition Report**

Appendix B Coastal Wetland Characterization checklist included as part of this section.

## **Appendix B**

### **Coastal Wetland Characterization**

There is approximately 13 feet of rocky, gravelly, sandy area between the toe of the existing embankment and the Smooth Cordgrass growth. As can be seen in the photographs this area contains rocks, discarded pieces of granite and chunks of concrete. Muscle shells and Periwinkles are common along the gravelly soil in between the rocks.

The slope is primarily covered with invasive bamboo, with some wild rose, forsythia, juniper and other deciduous plant material. Under the shallow rooted existing vegetative cover the slope continues to slump and erode into the ocean. A very large Ash tree tipped over a number of years ago and its root system uprooted leaving a very large erosive hole in the embankment that continues to erode. There are also a couple of drain pipes (roof runoff) which stick out over the embankment contributing to stormwater run-off down the embankment.

See the following for additional information:

- Attached checklist
- Attachment 4 Photographs & Overhead Drawing showing approximate photo locations.

**APPENDIX B: MDEP COASTAL WETLAND CHARACTERIZATION:  
INTERTIDAL & SHALLOW SUBTIDAL FIELD SURVEY CHECKLIST**

NAME OF APPLICANT: John Woodhead PHONE: Peter Biegel (Agent) 939-1717

APPLICATION TYPE: NRPA Individual Permit

ACTIVITY LOCATION: TOWN: Portland COUNTY: Maine

ACTIVITY DESCRIPTION:  fill  pier  lobster pound  shoreline stabilization  
 dredge  other: \_\_\_\_\_

DATE OF SURVEY: August 27, 2014 OBSERVER: Peter Biegel (agent - Land Design Solutions)

TIME OF SURVEY: 8:30 AM TIDE AT SURVEY: Low

SIZE OF DIRECT IMPACT OR FOOTPRINT (square feet):  
Intertidal area: 303 s.f. Subtidal area: 0

SIZE OF INDIRECT IMPACT, if known (square feet): \_\_\_\_\_  
Intertidal area: \_\_\_\_\_ Subtidal area: \_\_\_\_\_

HABITAT TYPES PRESENT(check all that apply):  
 sand beach  boulder/cobble beach  sand flat  mixed coarse & fines  salt marsh  
 ledge  rocky shore  mudflat (sediment depth, if known: \_\_\_\_\_)

ENERGY:  protected  semi-protected  partially exposed  exposed

DRAINAGE:  drains completely  standing water  pools  stream or channel

SLOPE:  >20%  10-20%  5-10%  0-5%  variable

SHORELINE CHARACTER:  
 bluff/bank (height from spring high tide: 14'+/)  beach  rocky  vegetated

FRESHWATER SOURCES:  stream  river  wetland  stormwater

MARINE ORGANISMS PRESENT:

	absent	occasional	common	abundant
mussels	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
clams	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
marine worms	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rockweed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
eelgrass	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
lobsters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
other (Smooth Cordgrass) (Periwinkle)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SIGNS OF SHORELINE OR INTERTIDAL EROSION?  yes  no

PREVIOUS ALTERATIONS?  yes  no

CURRENT USE OF SITE AND ADJACENT UPLAND:  
 undeveloped  residential  commercial  degraded  recreational

**PLEASE SUBMIT THE FOLLOWING:**  
 Photographs  Overhead drawing (pink)

**Attachment 10**  
**Notice of Intent to File**

See attached:

- Public Notice Filing and Certification.
- Notice of Intent to File
- Notice was published in the Portland Press Herald on November 21, 2014.
- Notice was sent to the abutters via certified mail (see abutter list & Receipt page).

## PUBLIC NOTICE FILING AND CERTIFICATION

Department Rules, Chapter 2, require an applicant to provide public notice for all Tier 2, Tier 3 and individual Natural Resources Protect Act projects. In the notice, the applicant must describe the proposed activity and where it is located. "Abutter" for the purposes of the notice provision means any person who owns property that is BOTH (1) adjoining and (2) within one mile of the delineated project boundary, including owners of property directly across a public or private right of way.

1. **Newspaper:** You must publish the Notice of Intent to File in a newspaper circulated in the area where the activity is located. The notice must appear in the newspaper within 30 days prior to the filing of the application with the Department. You may use the attached Notice of Intent to File form, or one containing identical information, for newspaper publication and certified mailing.
2. **Abutting Property Owners:** You must send a copy of the Notice of Intent to File by certified mail to the owners of the property abutting the activity. Their names and addresses can be obtained from the town tax maps or local officials. They must receive notice within 30 days prior to the filing of the application with the Department.
3. **Municipal Office:** You must send a copy of the Notice of Intent to File and a **duplicate of the entire application** to the Municipal Office.

**ATTACH a list of the names and addresses of the owners of abutting property.**

### CERTIFICATION

By signing below, the applicant or authorized agent certifies that:

- ✓9. A Notice of Intent to File was published in a newspaper circulated in the area where the project site is located within 30 days prior to filing the application;
- ✓10. A certified mailing of the Notice of Intent to File was sent to all abutters within 30 days of the filing of the application;
- ✓11. A certified mailing of the Notice of Intent to File, and a duplicate copy of the application was sent to the town office of the municipality in which the project is located; and
12. Provided notice of and held a public informational meeting, if required, in accordance with Chapter 2, Rules Concerning the Processing of Applications, Section 13, prior to filing the application. Notice of the meeting was sent by certified mail to abutters and to the town office of the municipality in which the project is located at least ten days prior to the meeting. Notice of the meeting was also published once in a newspaper circulated in the area where the project site is located at least seven days prior to the meeting.

The Public Informational Meeting was held on \_\_\_\_\_  
Date

Approximately \_\_\_\_\_ members of the public attended the Public Informational Meeting.

Peter B. Biegel  
Signature of Applicant or authorized agent

11/28/14  
Date

(goldenrod)

**PUBLIC NOTICE:  
NOTICE OF INTENT TO FILE**

Please take notice that

John M. Woodhead, 1276 N. Wayne Street #707, Arlington, VA

*(Name, Address and Phone # of Applicant)*

is intending to file a Natural Resources Protection Act permit application with the Maine Department of Environmental Protection pursuant to the provisions of 38 M.R.S.A. §§ 480-A thru 480-BB on or about

November 25, 2014

*(anticipated filing date)*

The application is for

Shoreline stabilization

*(description of the project)*

at the following location:

60 Sullivan Street, Portland Maine

*(project location)*

A request for a public hearing or a request that the Board of Environmental Protection assume jurisdiction over this application must be received by the Department in writing, no later than 20 days after the application is found by the Department to be complete and is accepted for processing. A public hearing may or may not be held at the discretion of the Commissioner or Board of Environmental Protection. Public comment on the application will be accepted throughout the processing of the application.

For Federally licensed, permitted, or funded activities in the Coastal Zone, review of this application shall also constitute the State's consistency review in accordance with the Maine Coastal Program pursuant to Section 307 of the federal Coastal Zone Management Act, 16 U.S.C. § 1456. (Delete if not applicable.)

The application will be filed for public inspection at the Department of Environmental Protection's office in *(Portland, Augusta or Bangor)*(circle one) during normal working hours. A copy of the application may also be seen at the municipal offices in Portland, Maine.

*(town)*

Written public comments may be sent to the regional office in Portland, Augusta, or Bangor where the application is filed for public inspection:

MDEP, Central Maine Regional Office, 17 State House Station, Augusta, Maine 04333

MDEP, Southern Maine Regional Office, 312 Canco Road, Portland, Maine 04103

MDEP, Eastern Maine Regional Office, 106 Hogan Road, Bangor, Maine 04401

*(goldenrod)*

NOTICE OF  
INTENT TO FILE

Please take notice that

John Woodhead

1276 N. Wayne Street #707, Arlington, VA

is intending to file a Natural Resources Protection Act permit application with the Maine Department of Environmental Protection pursuant to the provisions of 38 M.R.S.A. §§ 480-A thru 480-BB on or about November 25, 2014

The application is for

Shoreline stabilization

at the following location: 60 Sullivan Street, Portland, Maine

A request for a public hearing or a request that the Board of Environmental Protection assume jurisdiction over this application must be received by the Department in writing, no later than 20 days after the application is found by the Department to be complete and is accepted for processing. A public hearing may or may not be held at the discretion of the Commissioner or Board of Environmental Protection.

Public comment on the application will be accepted throughout the processing of the application.

The application will be filed for public inspection at the Department of Environmental Protection's office in Portland during normal working hours. A copy of the application may also be seen at the municipal offices in Portland, Maine.

Written public comments may be sent to the regional office in Portland, Augusta, or Bangor where the application is filed for public inspection:

MDEP, Central Maine Regional Office, 17 State House Station, Augusta, Maine 04333

MDEP, Southern Maine Regional Office, 312 Canco Road, Portland, Maine 04103

MDEP, Eastern Maine Regional Office, 106 Hogan Road, Bangor, Maine 04401

## Abutter List

<u>Property (Tax Map &amp; Lot #)</u>	<u>Street Address</u>	<u>Owner / Address</u>
J10NW 432A A004001	56 Sullivan Street	Louise G. & Paul A. Vachon 56 Sullivan Street Portland, ME 04103
J10NW 432A A007001	62 Sullivan Street	Carl D. & Heather L. Vickerson 62 Sullivan Street Portland, ME 04103
J10NW 431 A019001	7 Island Street	Richard C. & Sheri Moulton 7 Island Street Portland, ME 04103
J10NW 431 B001	6 Island Street	Alan E. & Geraldine G. Wolf (Trustees) P.O. Box 1292 Portland, ME 04104



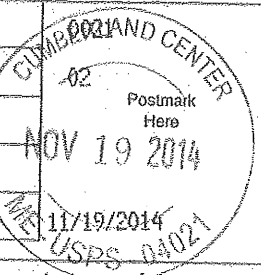
7006 0810 0006 4754 0947

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Total Postage & Fees	\$	\$6.49



Sent To *Richard & Sheri Marton*  
Street, Apt. No.; or PO Box No. *7 Island St.*  
City, State, ZIP+4 *Portland, ME 04103*

PS Form 3800, June 2002 See Reverse for Instructions

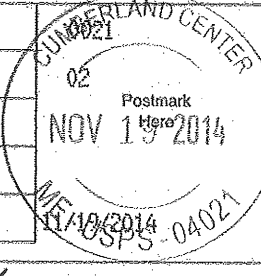
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Return Receipt Fee (Endorsement Required)		\$2.70
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$6.49



Sent To *Paul & Louise Vachon*  
Street, Apt. No.; or PO Box No. *56 Sullivan St.*  
City, State, ZIP+4 *Portland, ME 04103*

PS Form 3800, June 2002 See Reverse for Instructions

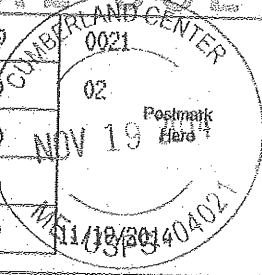
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Postage	\$	\$0.49
Certified Fee		\$3.30
Return Receipt Fee (Endorsement Required)		\$2.70
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$6.49



Sent To *Carl & Heather Vickerson*  
Street, Apt. No.; or PO Box No. *60 Sullivan Street*  
City, State, ZIP+4 *Portland, ME 04103*

PS Form 3800, June 2002 See Reverse for Instructions

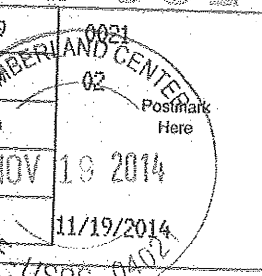
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Postage	\$	\$0.49
Certified Fee		\$3.30
Return Receipt Fee (Endorsement Required)		\$2.70
Restricted Delivery Fee (Endorsement Required)		\$0.00
Total Postage & Fees	\$	\$6.49



Sent To *Alan & Geraldine Wolf*  
Street, Apt. No.; or PO Box No. *P.O. Box 1092*  
City, State, ZIP+4 *Portland, ME 04104*

PS Form 3800, June 2002 See Reverse for Instructions

**Attachment 11**  
**Maine Historic Preservation Commission and**  
**Maine Indian Tribes (ACOE Requirement)**

See attached letters and responses from:

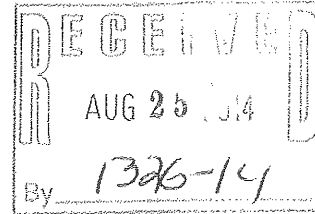
- Maine Historic Preservation Commission (letter response dated August 25, 2014)
- Houlton Band of Maliseets (email response dated September 8, 2014)
- Aroostook Band of Micmacs (letter response dated September 18, 2014)
- Passamaquoddy Tribe of Indians (letter response dated October 6, 2014)
- Penobscot Indian Nation (email response dated September 5, 2014)

# Land Design Solutions

Land Planning, Site Planning and Landscape Architecture

August 22, 2014

Mr. Earle G. Shettleworth, Jr., Director  
Maine Historic Preservation Commission  
55 Capitol Street, 65 State House Station  
Augusta, ME 04333-0065



**RE: John M. Woodhead Property**  
**60 Sullivan Street**  
**Portland, Maine**

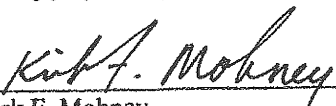
Dear Mr. Shettleworth:

Land Design Solutions is currently providing permitting and engineering services to John Woodhead for a shoreline stabilization project at the above referenced property. The location of the property and the stabilization area is shown on the attached USGS Topo Map and property survey.

As a requirement of the environmental permitting process the project is required to request that the Maine Historic Preservation Commission research their data base to determine the presence of any sites in the area of historic architecture or archaeological significance, as defined by the National Historic Preservation Act of 1966.

If you require further information, please contact us at 939-1717. Thank you for your assistance in this matter.

Based on the information submitted, I have concluded that there will be no historic properties affected by the proposed undertaking, as defined by Section 106 of the National Historic Preservation Act. Consequently, pursuant to 36 CFR 800.4(d)(1), no further Section 106 consultation is required unless additional resources are discovered during project implementation pursuant to 36 CFR 800.13.

  
Kirk F. Mohney,  
Deputy State Historic Preservation Officer  
Maine Historic Preservation Commission

9/4/14  
Date

Sincerely,

Land Design Solutions

  
Peter B. Biegel  
Maine Licensed Landscape Architect

Enclosure





Aroostook Band of Micmacs • 7 Northern Road • Presque Isle • ME 04769

September 18, 2014

Land Design Solutions  
Attn: Peter Biegel  
PO Box 316  
160 Longwoods Rd  
Cumberland, ME 04021

**RE: Shoreline Stabilization**  
**Applicant: John Woodhead**  
**Municipality: Portland West, Maine**

Dear Mr. Biegel:

Thank you for the opportunity to review the above-referenced project for compliance with National Environmental Policy Act (NEPA) and National Historic Preservation Act (NHPA) requirements.

Based on the project description, we do not have knowledge of any specific sites or cultural features that exist at the proposed project location. However, this geographic area does constitute traditional areas that were historically utilized by members of the Aroostook Band of Micmacs and other northeastern tribes. Therefore, we respectfully request that if during the course of excavation/construction activities any human remains, artifacts, or any other evidence of Native American presence is discovered, site activities in the vicinity of the discovery immediately cease, pending notification to us.

If this project results in wetland disturbances requiring mitigation, we request that you utilize the black ash (*Fraxinus nigra*) as the principle wetland species for wetland restoration activities. The black ash tree has special significance in the cultures of northeastern tribes and is used extensively for weaving baskets and other Native American crafts. The black ash tree also provides valuable food and habitat for migratory waterfowl and other wildlife. Unfortunately, this species has been selected against by foresters and landowners who favor other tree species. As a result of this and other environmental factors, the black ash tree is in serious decline in Maine. The Aroostook band of Micmacs has completed several black ash wetland restoration projects and we have a dependable source for high-quality seedlings as well as the experience and expertise to assist you with black ash wetland restoration projects.

On the subject of human remains, artifacts, or any other evidence of Native American presence being discovered, the human remains will be reburied with the appropriate respect that is required at a distinctive and respectable site. Any artifacts and other evidence of Native American discovery will be documented with appropriate detail. The items will be analyzed for the precise period of the items distinctive period and will be documented by the Tribal Historic Preservation Officer from the Aroostook Band of Micmacs.

Sincerely,

Jennifer Pictou  
Tribal Historic Preservation Officer

# Tribal Historic Preservation Office

Passamaquoddy Tribe  
PO Box 159 Princeton, Me. 04668  
207-796-5533

Land Design Solutions  
PO box 316  
Cumberland, Me

October 6, 2014

Re: Yarmouth – Goodrich Project  
Portland – Woodhead Project

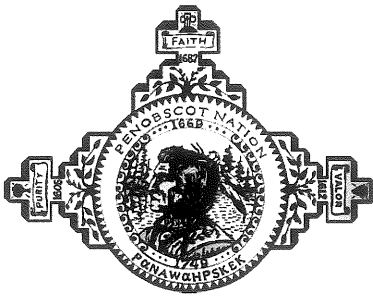
Dear Peter;

The Passamaquoddy THPO has reviewed the following applications regarding the historic properties and significant religious and cultural properties in accordance with NHPA, NEPA, AIRFA, NAGPRA, ARPA, Executive Order 13007 Indian Sacred Sites, Executive Order 13175 Consultation and Coordination with Indian Tribal Governments, and Executive Order 12898 Environmental Justice.

The above listed proposed projects will not have any impact on cultural and historical concerns of the Passamaquoddy Tribe.

Sincerely;

Donald Soctomah  
Soctomah@gmail.com  
THPO  
Passamaquoddy Tribe



PENOBSCOT NATION  
CULTURAL & HISTORIC PRESERVATION DEPARTMENT  
12 WABANAKI WAY, INDIAN ISLAND, ME 04468  
CHRIS SOCKALEXIS – TRIBAL HISTORIC PRESERVATION OFFICER  
E-MAIL: [chris.sockalexis@penobscotnation.org](mailto:chris.sockalexis@penobscotnation.org) FAX: 207-817-7450

NAME	Peter B. Biegel
ADDRESS	Land Designs Solutions PO Box 316 160 Longwoods Road Cumberland, ME 04021
OWNER'S NAME	John Woodhead
TELEPHONE	(207) 939-1717
FAX	
EMAIL	<a href="mailto:pbiegel@landdesignsolutions.com">pbiegel@landdesignsolutions.com</a>
PROJECT NAME	Shoreline Stabilization
PROJECT SITE	Portland, ME
DATE OF REQUEST	September 2, 2014
DATE REVIEWED	September 5, 2014

Thank you for the opportunity to comment on the above referenced project. This project appears to have no impact on a structure or site of historic, architectural or archaeological significance to the Penobscot Nation as defined by the National Historic Preservation Act of 1966, as amended.

If Native American cultural materials are encountered during the course of the project, please contact my office at (207) 817-7471. Thank you for consulting with the Penobscot Nation on this project.

A handwritten signature in black ink, appearing to read "Chris Sockalexis".

CHRIS SOCKALEXIS, THPO  
Penobscot Nation

**Attachment 12**  
**Functional Assessment**

See intertidal & shallow subtidal field survey checklist in Appendix B located in Attachment 9.



**Appendix A**  
**Visual Evaluation Checklist**

See MDEP Visual Evaluation Checklist enclosed as part of this section.

**APPENDIX A: MDEP VISUAL EVALUATION  
FIELD SURVEY CHECKLIST**  
(Natural Resources Protection Act, 38 M.R.S.A. §§ 480 A - Z)

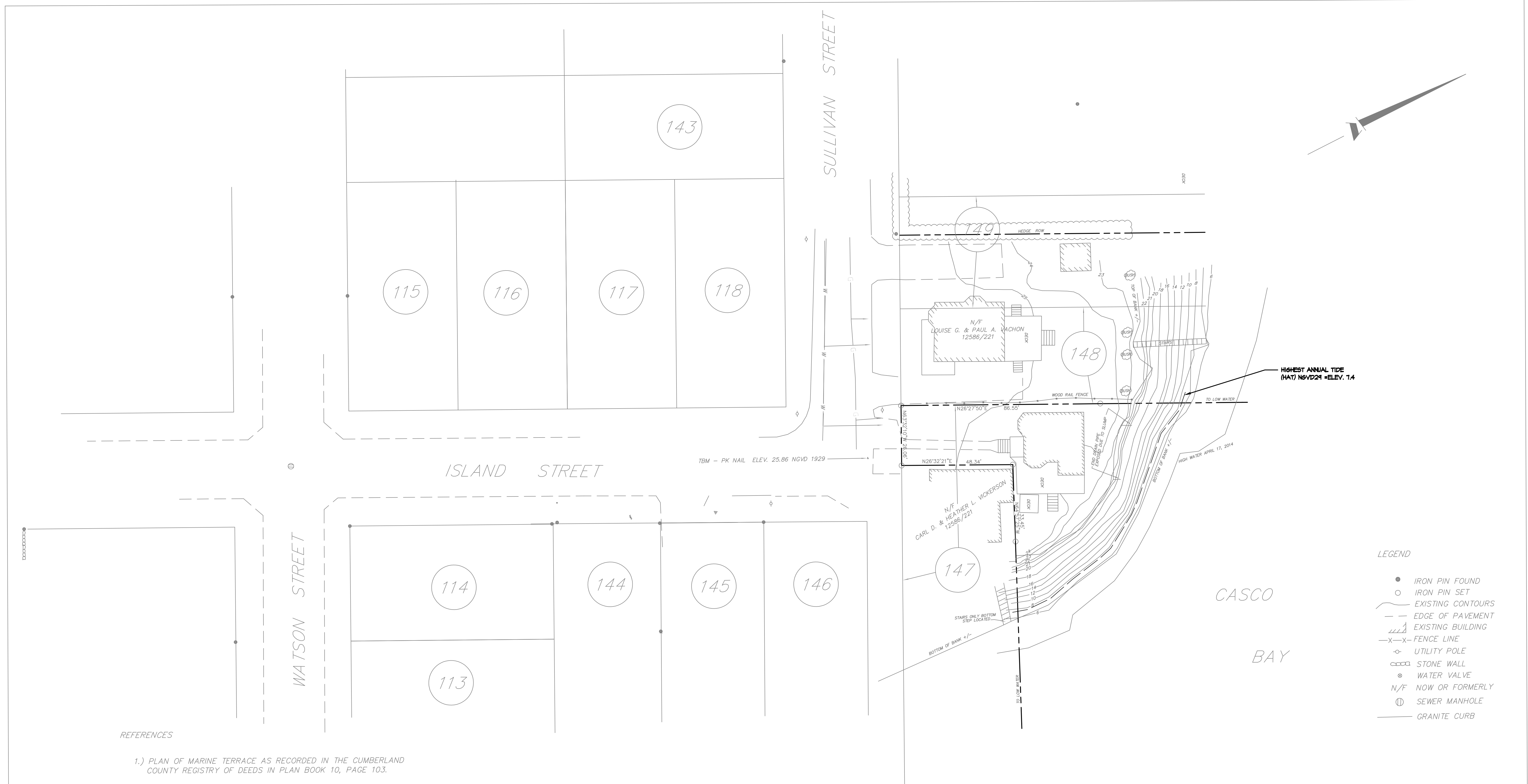
Name of applicant: John Woodhead Phone: Peter Biegel 939-1717 (Agent)  
 Application Type: NRPA Individual Permit  
 Activity Type: (brief activity description) Shoreline Stabilization Project  
 Activity Location: Town: Portland Court: Cumberland County  
 GIS Coordinates, if known: \_\_\_\_\_  
 Date of Survey: August 28, 2014 Observer: Peter Biegel (Agent) Phone: 939-1717

	<b>Distance Between the Proposed Visibility Activity and Resource (in Miles)</b>		
	0-¼	¼-1	1+
1. Would the activity be visible from:			
A. A National Natural Landmark or other outstanding natural feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B. A State or National Wildlife Refuge, Sanctuary, or Preserve or a State Game Refuge?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. A state or federal trail?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D. A public site or structure listed on the National Register of Historic Places?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
E. A National or State Park?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F. 1) A municipal park or public open space?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2) A publicly owned land visited, in part, for the use, observation, enjoyment and appreciation of natural or man-made visual qualities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3) A public resource, such as the Atlantic Ocean, a great pond or a navigable river?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. What is the closest estimated distance to a similar activity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. What is the closest distance to a public facility intended for a similar use?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the visibility of the activity seasonal? (i.e., screened by summer foliage, but visible during other seasons)		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Are any of the resources checked in question 1 used by the public during the time of year during which the activity will be visible?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

A listing of National Natural Landmarks and other outstanding natural features in the State of Maine can be found at: [www.nature.nps.gov/nnl/Registry/USA\\_map/states/Maine/maine.htm](http://www.nature.nps.gov/nnl/Registry/USA_map/states/Maine/maine.htm). In addition, unique natural areas are listed in the Maine Atlas and Gazetteer published by DeLorme.

(pink)





REFERENCES

- 1.) PLAN OF MARINE TERRACE AS RECORDED IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS IN PLAN BOOK 10, PAGE 103.
- 2.) PLAN OF STANDARD BOUNDARY SURVEY MADE FOR MAURINE C. WILLIAMSON DATED MARCH 21, 1996 BY TITCOMB ASSOCIATES.

NOTES

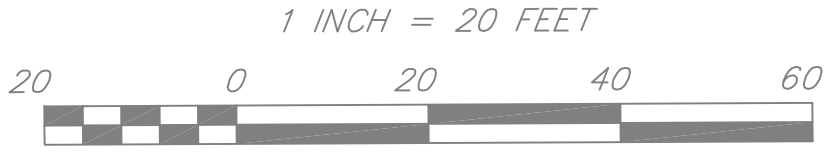
- 1.) BEARINGS ARE REFERENCED TO GRID NORTH. SEE REFERENCE 2.
- 2.) ELEVATIONS ARE NAVD29 (COMPUTED USING GEIOD03)

ALWAYS CALL DIG SAFE BEFORE ANY CONSTRUCTION TO LOCATE UNDERGROUND UTILITIES

OWNER OF RECORD  
 JOHN M. WOODHEAD  
 13549/285



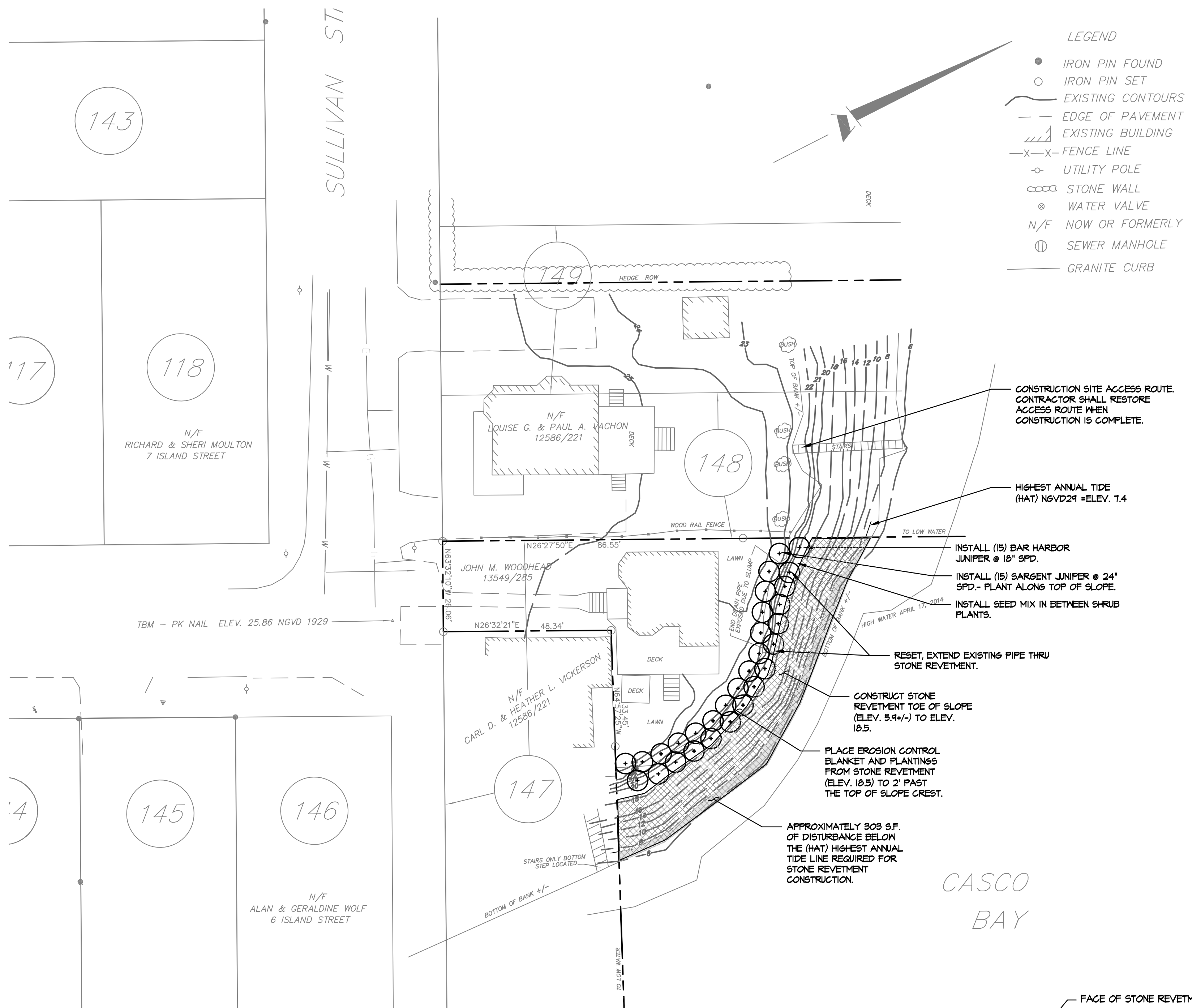
KEVIN W. CULLENBERG PLS 1278



**SITE PLAN**  
 SULLIVAN STREET PORTLAND, MAINE  
 MADE FOR  
**JOHN WOODHEAD**  
 APRIL 24, 2014  
 BY  
 CULLENBERG LAND SURVEYING  
 892 OLD DANVILLE ROAD  
 AUBURN, MAINE 04210  
 (207) 777-1150







- LEGEND**
- IRON PIN FOUND
  - IRON PIN SET
  - EXISTING CONTOURS
  - - - EDGE OF PAVEMENT
  - ▭ EXISTING BUILDING
  - X-X- FENCE LINE
  - UTILITY POLE
  - STONE WALL
  - ⊙ WATER VALVE
  - N/F NOW OR FORMERLY
  - ⊕ SEWER MANHOLE
  - GRANITE CURB

**GENERAL PROJECT NOTES:**

1. BOUNDARY, TOPOGRAPHIC AND EXISTING CONDITIONS INFORMATION FOR THIS PLAN WAS PROVIDED BY CULLENBERG LAND SURVEYING OF AUBURN, MAINE, APRIL 2014. ELEVATIONS ARE BASED ON NGVD29.
2. OWNER OF RECORD IS JOHN M. WOODHEAD, 1276 N WAYNE STREET #107, ARLINGTON, VA 22201.
3. SLOPE STABILIZATION DESIGNED BY SYTDESIGN CONSULTANTS OF CUMBERLAND MAINE.
4. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON-SITE AND OFF-SITE, THE CONTRACTOR SHALL NOTIFY DIGSAFE AND BE PROVIDED WITH A DIGSAFE NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND CLEARLY MARKED.
5. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
6. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL PERMITS AND APPROVALS AND CONDUCT THE WORK IN ACCORDANCE WITH THESE PERMITS AND APPROVALS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ADDITIONAL PERMITS, STREET OPENINGS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK.
7. ANY DISCREPANCIES BETWEEN DRAWINGS AND SITE CONDITIONS AS WELL AS MANUFACTURERS RECOMMENDATIONS SHALL BE REPORTED IMMEDIATELY TO THE OWNERS REPRESENTATIVE FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
8. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED, ADJUSTED, ABANDONED AND/OR CAPPED OR DEMOLISHED, AS REQUIRED.
9. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS AND TECHNIQUES EMPLOYED TO PERFORM WORK SHOWN ON THESE PLANS.
10. THE CONTRACTOR SHALL LIMIT THE CONSTRUCTION ACTIVITY TO THE LIMITS SHOWN ON THE PLANS, UNLESS OTHERWISE AUTHORIZED BY THE OWNERS REPRESENTATIVE.
11. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL PERMITS AND REGULATIONS GOVERNING THE CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO STARTING CONSTRUCTION.

**SITE PREPARATION NOTES:**

1. THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, AND REPAIR EXISTING UTILITIES AS REQUIRED TO COMPLETE THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.
3. ANY EXISTING PROPERTY DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO MATCH ITS ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO CHARGE TO THE OWNER OR ENGINEER.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING LANDSCAPE, STONE DEBRIS, SOIL ON THE SITE WITHIN THE AREAS DESIGNATED FOR REMOVAL UNLESS SPECIFICALLY IDENTIFIED TO REMAIN.
5. ALL MATERIALS DESIGNATED FOR REMOVAL/DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS, ORDINANCES AND CODES.

**EROSION AND SEDIMENTATION CONTROL NOTES:**

1. EROSION AND SEDIMENTATION CONTROL DURING CONSTRUCTION WILL CONSIST OF A STABILIZED CONSTRUCTION ENTRANCE, AND THE TIMING OF CONSTRUCTION ACTIVITIES SO THAT THE LOWER AREA OF THE SLOPE IS ONLY UNDER CONSTRUCTION DURING THE LOW TIDE CYCLE AND IS PERMANENTLY STABILIZED BY THE END OF THAT CYCLE EACH DAY.
2. THE TOP OF THE SLOPE IS PROPOSED TO BE RE-VEGETATED. EROSION CONTROL BLANKET IS SPECIFIED WHICH CAN BE PLACED AS THE WORK PROCEEDS.
3. THE CONSTRUCTION ENTRANCE SHALL CONSIST OF CRUSHED STONE ENTRANCE TO PREVENT SEDIMENT TRACKING OFF-SITE.
4. GENERAL EROSION CONTROL PRACTICES:
  - CONFORM TO ALL LOCAL (CITY OF PORTLAND), STATE (NRPA) AND FEDERAL (ACOE) EROSION CONTROL REQUIREMENTS.
  - DO NOT WORK ANY EQUIPMENT WITHIN THE WATER.
  - LIMIT DEMOLITION REMOVAL, RE-GRADING AND INSTALLATION OF TOE STONES AND INFILL ROCK TO LOW TIDE CYCLE.
  - MONITOR THE SITE FOR EROSION ON A DAILY BASIS AND AFTER RAIN EVENTS.
  - CORRECT ANY EROSION PROBLEMS IMMEDIATELY.

**LAYOUT & MATERIAL NOTES:**

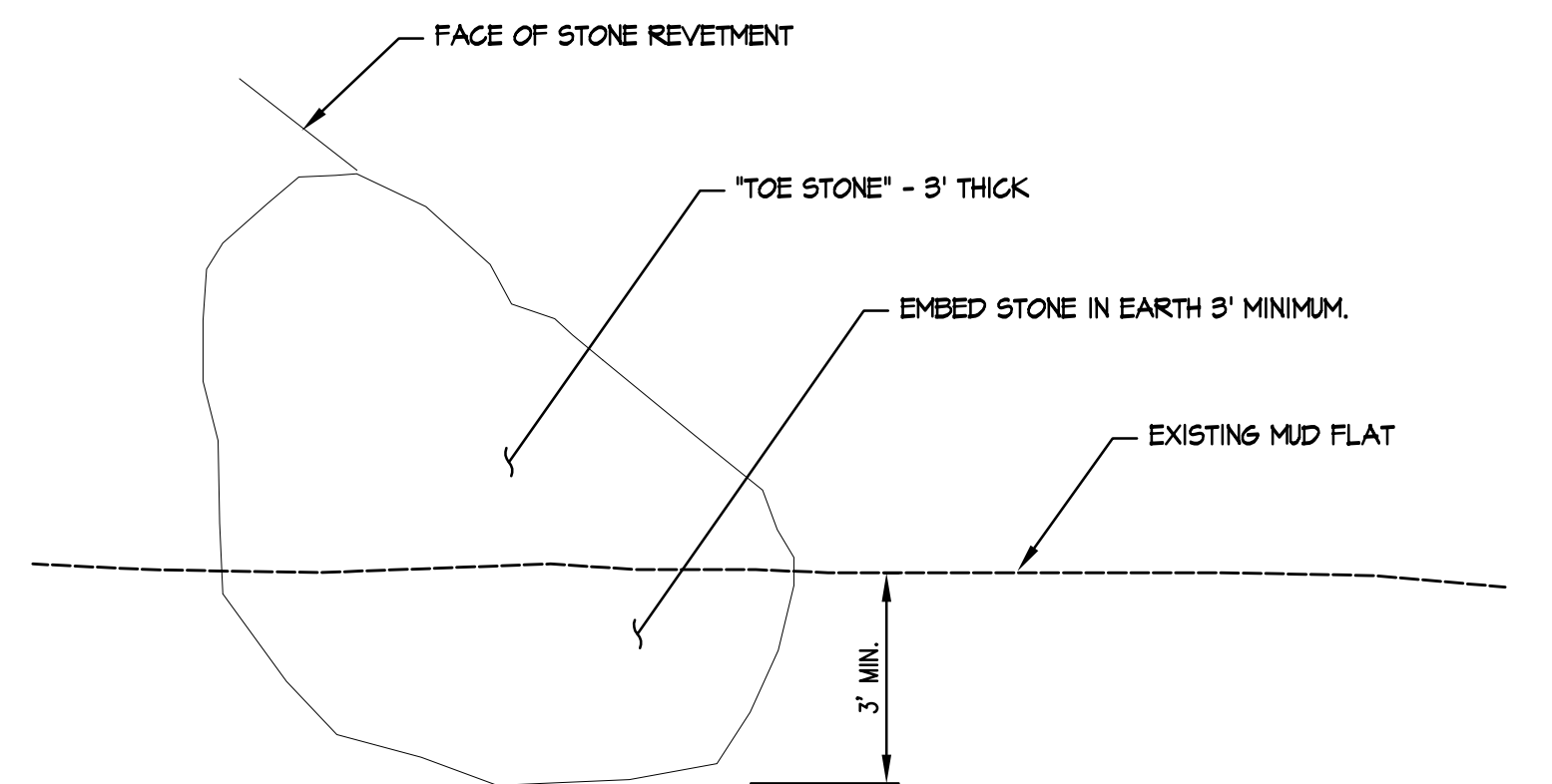
1. ALL DIMENSIONS ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
2. DO NOT SCALE DRAWINGS. ANY OMISSIONS IN DIMENSIONING SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL STAKE THE LAYOUT FOR APPROVAL BY THE OWNER PRIOR TO CONSTRUCTION.

**PLANTING NOTES:**

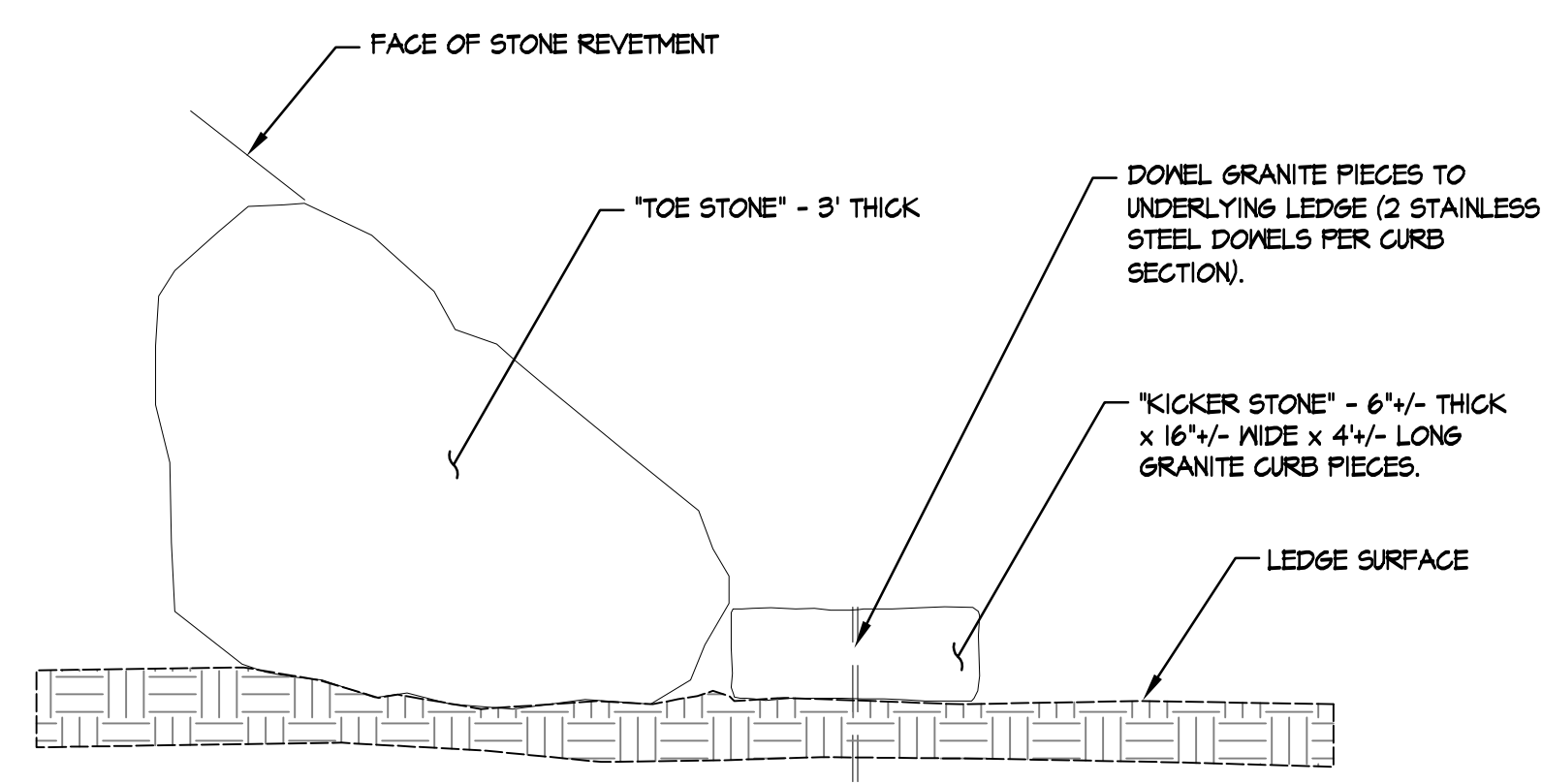
1. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN GRAPHICALLY ON THIS DRAWING. CLARIFY ANY DISCREPANCIES WITH THE LANDSCAPE ARCHITECT PRIOR TO FRIGING ANY PLANT MATERIAL.
2. ALL PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S "AMERICAN STANDARD OF NURSERY STOCK".
3. MULCH FOR PLANTED AREAS TO BE SUPERHUMUS AS DISTRIBUTED BY NEW ENGLAND ORGANICS OF PORTLAND MAINE.
4. CONTRACTOR SHALL LOAMED DISTURBED AREAS AS FOLLOWS:
  - SLOPE AREA UNDER EROSION CONTROL BLANKET 4" DEPTH OF TOPSOIL
  - LAWN AREA 6" DEPTH OF TOPSOIL
5. SEED MIX:
  - LAWN AREA (ABOVE TOP OF SLOPE) - SHALL BE SEEDED WITH SEED TYPE % BY WEIGHT: CREEPING RED FESCUE (MIN. 2 VARIETIES) 55%, KENTUCKY BLUEGRASS (MIN. 2 VARIETIES) 30%, PERENNIAL RYEGRASS 15%. SEEDING RATE PER 1000 SQ.FT. AS PER DISTRIBUTOR, BUT NOT LESS THAN 3 LBS. MIN.
  - SLOPE AREA - SHALL BE SEEDED WITH A MIX OF CREEPING RED FESCUE, LITTLE BLUESTEM AND PERENNIAL RYEGRASS. SEEDING RATE PER 1000 S.F.
6. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF FINAL ACCEPTANCE.

**GRADING & DRAINAGE NOTES:**

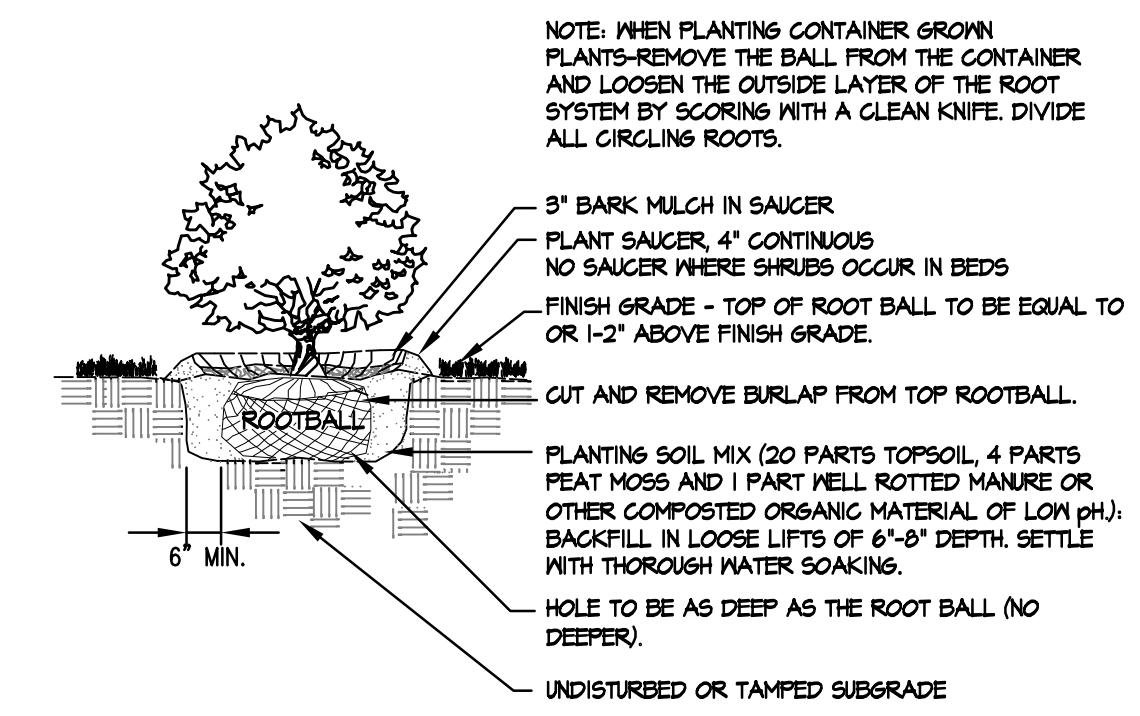
1. CONTRACTOR TO ADJUST EXISTING AND PROPOSED UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN-OUTS, UTILITY MANHOLES, CATCH BASINS, INLETS, ETC) THAT ARE AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
2. WHERE PROPOSED GRADES MEET EXISTING GRADES, CONTRACTOR SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
3. ALL UNSUITABLE AND UNUSED MATERIALS SHALL BE REMOVED AND DISPOSED OF OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS.
4. IF TOE OF SLOPE EMBEDMENT SHOWN IN DETAIL #2 IS NOT POSSIBLE DUE TO LEDGE ELEVATION THEN EXCAVATE TO LEDGE AND PROVIDE GRANITE KICKER STONE DOVELETTED TO LEDGE.



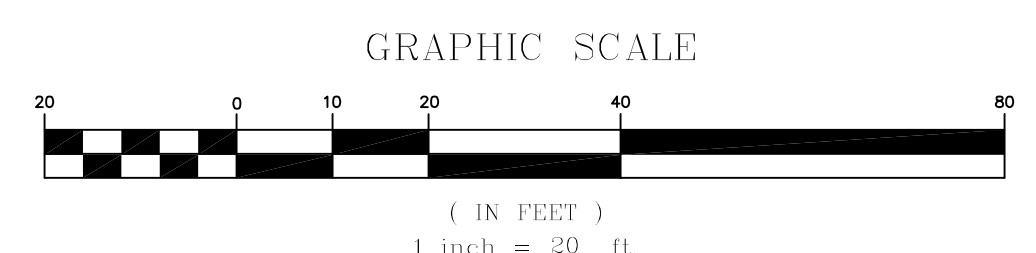
1 TOE OF SLOPE STONE IN EARTH  
SCALE: N.T.S.



2 TOE OF SLOPE STONE IN LEDGE  
SCALE: N.T.S.

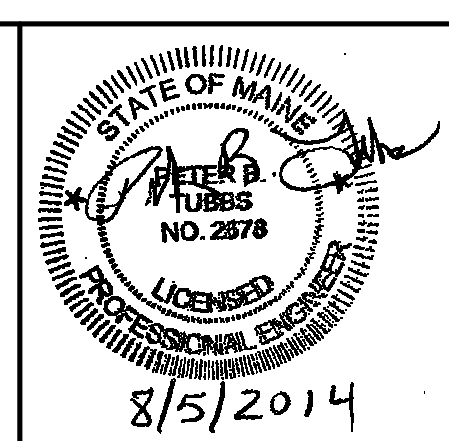


3 SHRUB PLANTING DETAIL  
SCALE: N.T.S.



Date: 8/5/14  
 Project: CULLENBERG PROJECT MANAGEMENT  
 Drawing: SLOPE STABILIZATION - SITE PLAN & DETAILS  
 Scale: AS SHOWN  
 Author: PBT  
 Checker: PBT  
 Date: 8/5/14

REV.	DATE	STATUS	BY	CHKD.	APPD.	REV.	DATE	STATUS	BY	CHKD.	APPD.
A	8/5/14	ISSUED FOR MAINE DEP REVIEW	PBB	PBT	PBT						



**LAND DESIGN SOLUTIONS**  
 LAND PLANNING, SITE PLANNING & LANDSCAPE ARCHITECTURE  
 P.O. Box 316, 160 Longwoods Road, Cumberland, ME 04081 tel: (207) 439-1171  
 CLIENT: **CULLENBERG PROJECT MANAGEMENT**  
 75 LEDGEWOOD DRIVE, FALMOUTH, MAINE 04108

DESIGN: PBT	<b>SLOPE STABILIZATION</b>	
DRAWN: PBB	60 SULLIVAN STREET, PORTLAND, MAINE	
CHKD: PBT	<b>SITE PLAN &amp; DETAILS</b>	
DATE: MAY 2014	PROJ. NO.	REV.
SCALE: 1"=20'	DWG. NO.	C-101