PUBLIC NOTICE

File Number: 2014-09-055 Date: October 8, 2014

This office has under consideration the application of:

Thomas & Diann Uustal
52 Orient Avenue
Jamestown, RI 02835

for a State of Rhode Island Assent to repair approximately 115 feet of existing stone revetment and add approximately 95 feet of new stone revetment to provide shoreline protection.

<table>
<thead>
<tr>
<th>Project Location:</th>
<th>52 Orient Avenue</th>
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<tbody>
<tr>
<td>City/Town:</td>
<td>Jamestown</td>
</tr>
<tr>
<td>Plat/Lot:</td>
<td>1/297</td>
</tr>
<tr>
<td>Waterway:</td>
<td>Narragansett Bay</td>
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</table>

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter.

You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing (with your correct mailing address, e-mail address and valid contact number) and be received at this office on or before November 8, 2014.
DESCRIPTION OF WORK

THE WORK COVERED UNDER CONTRACT PLAN SHEETS 1 THRU 9 AND ALL AMENDMENTS, CONSISTS OF PROVIDING ALL PLANT, LABOR, SUPERVISION, EQUIPMENT, APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH THE CONSTRUCTION OF THE NEW STONE REVETMENT.

THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES REQUIRED TO COMPLETE ALL ASPECTS OF THE WORK NEEDED FOR A COMPLETE AND PROPER INSTALLATION, ALL IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS.

GENERAL NOTES:

1. PROPERTY LINE, TOPOGRAPHY AND EXISTING CONDITIONS INFORMATION SHOWN HEREIN ARE PROVIDED BY OCEAN STATE PLANNERS, INC. PLEASE REFER TO THEIR SURVEY AND ASSOCIATED PLANS PREPARED TO SUPPORT THE CRMC ASSENT APPLICATION FOR THE NEW HOUSE CONSTRUCTION. WE TAKE NO RESPONSIBILITY FOR THEIR ACCURACY.

2. THERE IS LIMITED HYDROGRAPHIC INFORMATION AVAILABLE FOR THIS SITE AS SHOWN.

3. ALL ELEVATIONS ARE REFERENCED TO NAVD88. BENCHMARKS ARE INDICATED ON THE SURVEY PLANS.

4. THESE PLAN SHEETS WERE PRODUCED FOR PURPOSES OF DESIGN, PLANNING AND THE CONSTRUCTION OF A NEW STONE REVETMENT SYSTEM TO REPAIR AND EXTEND THE EXISTING REVETMENT SYSTEM DAMAGED BY HURRICANE SANDY. USE OF THIS PLAN FOR ANY OTHER WORK IS AT THE SOLE RISK OF THE END USER.

5. UNDERGROUND UTILITIES ARE NOT LOCATED AND IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES, GRADES, AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY DIG SAFE AND LOCAL UTILITIES TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO START OF ANY CONSTRUCTION. REPORT TO THE ENGINEER ALL OBSERVATIONS AND DISCREPANCIES BEFORE PROCEEDING WITH ANY WORK.

6. ALL WORK SHALL COMPLY WITH LOCAL, STATE AND FEDERAL LAWS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.

7. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT REGULATORY PERMITS AND ALL CONDITIONS OF THOSE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS FOR THIS PROJECT MAY CONTAIN ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT IN THE CASE OF ANY DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE CONSTRUCTION, THE FINAL DECISION AS TO WHAT INFORMATION TAKES PRECEDENCE WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.

8. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.

9. ALL SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.


FAIRBANKS ENGINEERING CORP.
Marine & Geotechnical Engineering
42 Cobblestone Hill Road, Exeter, RI 02822
Tel: 401-294-2301 Cell: 661-347-2812 email: rfairbanks@fairbankseng.com

REVETMENT REPAIRS
General Notes
FOR: Thomas & Diane Ustad
52 Orient Avenue
Jamestown, RI 02835

PROJECT: REVETMENT REPAIRS - NARRAGANSETT BAY
52 ORIENT AVE.
JAMESTOWN, RI 02835
A.P. 1, LOT 297

DATE AUGUST 22, 2014

DWG. SHT. 3 OF 9
GENERAL NOTES, CONT.:

11. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS INCLUDING THE ADJACENT REVETMENT STRUCTURES AND PROPERTY.

12. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.

13. THE CONTRACTOR SHALL PERFORM ALL WORK FROM THE YARD SIDE OF THE STRUCTURE. NO EQUIPMENT OR MATERIALS ARE ALLOWED ON THE BEACH AREA AT ANY TIME.

STONE REVETMENT CONSTRUCTION NOTES:

1. THE REVETMENT SHALL BE COMPRISED OF AN ARMOR LAYER WITH GEOTEXTILE FABRIC REQUIRED AS SPECIFIED.

2. ARMOR STONES SHALL BE PLACED IN AT LEAST A TWO LAYER THICKNESS.

3. ALL STONES USED IN THE CONSTRUCTION OF THE TOE PROTECTION SHALL BE HARD, DURABLE, AND CLEAN, WITHOUT CRACKS, CLEAVAGES OR LAMINATIONS. THEY SHOULD BE CHEMICALLY STABLE IN FRESH OR SALT WATER AND SHOULD NOT WEATHER DUE TO TEMPERATURE CHANGES OR WET/DRY CYCLES.

4. ARMOR STONES GEOMETRY SHALL BE SUCH THAT THE SMALLEST DIMENSION SHOULD NOT BE LESS THAN ONE-THIRD OF THE LARGEST DIMENSION.

5. THE SIZE OF THE ARMOR STONES SHALL BE A MAXIMUM OF 1.25 W (AVERAGE WEIGHT SPECIFIED) AND A MINIMUM OF 0.75 W. APPROXIMATELY 75 PERCENT OF THE STONES SHALL BE EQUAL TO, OR LARGER THAN, W.

6. ARMOR UNITS IN THE COVER LAYER SHALL BE PLACED IN AN ORDERLY MANNER TO OBTAIN GOOD WEDGING OR INTERLOCKING ACTION BETWEEN INDIVIDUAL UNITS.

7. THREE (3) LAYERS OF GEOTEXTILE FABRIC ARE REQUIRED AGAINST ALL SOIL INTERFACES BELOW THE REVETMENT. THIS SHALL BE COMPRISIR OF 2 LAYERS OF MIRAFI I 40N OR EQUIVALENT PLACED ON THE SOIL WITH A LAYER OF MIRAFI 600X OR EQUIVALENT PLACED ABOVE. THE I 40N IS REQUIRED TO ACT AS A FILTER TO STOP THE MIGRATION OF FINE SOIL INTO/THROUGH THE REVETMENT STONE. THE 600X IS REQUIRED TO PROTECT THE I 40N FROM BEING DAMAGED BY THE LARGE STONES AND CONSTRUCTION ACTIVITY. ADDITIONAL LAYERS OF GEOTEXTILE FABRIC SHALL BE REQUIRED IF IT IS DETERMINED THAT THE 2 LAYER FABRIC SYSTEM IS BEING DAMAGED DURING CONSTRUCTION.

8. THE UPPER STONES ALONG AT THE TOP OF THE REVETMENT AT THE FUTURE YARD INTERFACE SHALL BE SELECTED TO CREATE A FLAT AREA WITH A REGULAR EDGE. THE INTENT IS TO ALLOW MORTAR AND/OR CONCRETE TO "TIE" THE AREA TOGETHER.
REFERENCE PLANS/DOCUMENTS:

1. SURVEY PLANS TITLED "CRMC SITE PLAN, A.P. 1 LOT 297, 52 ORIENT AVENUE, JAMESTOWN RHODE ISLAND, PREPARED FOR THOMAS UUSTAL, PREPARED BY OCEAN STATE PLANNERS, INC, SHEET 1 OF 1, DATED JANUARY 14, 2014". ALSO REFERENCE THE OWTS PLAN PREPARED BY OCEAN STATE PLANNERS, INC. RELATED TO THE CRMC ASSENT APPLICATION FOR THE NEW HOUSE.

2. FEMA FLOOD INSURANCE STUDY NEWPORT COUNTY, RI, DATED SEPTEMBER 4, 2013; FLOOD INSURANCE STUDY NUMBER 44005CV000B.

3. FIRM FLOOD INSURANCE RATE MAP, NUMBER 44005CO78J, SEPTEMBER 4, 2013.

4. RI STATE BUILDING CODE, SBC-1, 10TH ED

5. US CORPS OF ENGINEERS SHORE PROTECTION MANUAL, 1984, VOLUMES 1 & 2

6. COASTAL CONSTRUCTION MANUAL, FEMA 55, ED 3, AUGUST 2005

DESIGN CRITERIA:

1. ALL DIMENSIONS ARE IN DECIMAL FEET UNLESS OTHERWISE NOTED. ELEVATIONS ARE REFERENCED TO NAVD88.

2. SEISMIC LOAD - NONE

3. UNIFORM LIVE LOAD BEHIND REVETMENT = N/A

4. TIDAL RANGE - 3.47 FEET

5. THE FEMA FLOOD INSURANCE STUDY INDICATES THE FOLLOWING:

   100 YR (1%) SIG WAVE HEIGHT, (Hs): 12.6 FT (BREAKING WAVE)
   100 YR (1%) DESIGN WAVE HEIGHT, (H10): 16.2 FT (BREAKING WAVE)
   100 YR (1%) STORM STILLWATER EL (1%): 11.2 FT NAVD88
   100 YR (1%) DESIGN WAVE CREST EL: 20.2 FT NAVD88 (FLOOD STUDY INDICATES THIS IS DUE TO RUNUP)

6. THE REVETMENT IS LOCATED BELOW THE 100 YR (1%) STILLWATER ELEVATION AND IN LIMITED WATER DEPTH. AS A RESULT THE STRUCTURE IS DESIGNED FOR A WAVE HEIGHT LESS THAN 100 YR (1%) WAVE. THIS STRUCTURE IS DESIGNED FOR A WAVE HEIGHT OF 7 FT. LARGER WAVES WILL CAUSE DAMAGE TO THE STRUCTURE AND MAINTENANCE IS REQUIRED OVER TIME ESPECIALLY AFTER STORM EVENTS.

7. TEMPERATURE RANGE = 60 DEGREES FAHRENHEIT ABOVE AND BELOW MEAN AMBIENT TEMPERATURE

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DWG.
SHT. 5 OF 9

ROBERT W. FAIRBANKS JR.
No. 5517
REGISTERED PROFESSIONAL ENGINEER
100 YR (1%) MAX WAVE CREST EL 21.2 FT

100 YR (1%) STILLWATER EL 11.0 FT

2 LAYERS OF ARMOR STONE; 6,000 LB MIN SIZE

EXISTING & PROPOSED GRADE EL 3 TO 4 FT±

EL 1.57 FT (MHW)

BOT STONE EL 0.0 FT±

EL -1.90 (MLW)

REMOVE UPPER SECTION OF EXISTING CONCRETE SEAWALL

TOP STONE SHALL CREATE A FLAT SURFACE; CHINK AND MORTAR STONE PIECES AS NECESSARY

PROPOSED GRADE (TO MATCH EXISTING CONDITIONS)

USE EXCAVATED SOIL AS BACKFILL

3 LAYERS OF GEOTEXTILE FABRIC; 2 LAYERS MIRAFI 140N WITH MIRAFI 600X PLACED ABOVE AS PROTECTION

TYP REVETMENT SECTION A–A

SCALE: 1" = 1'-0"

FAIRBANKS ENGINEERING CORP.

REVETMENT REPAIRS
Typical Revetment Section A–A

LOCATION: NARAGANSETT BAY
52 ORIENT AVE.
JAMESTOWN, RI
AP. 1, LOT 297

APPLICATION BY:
Thomas & Diann Uustal
52 Orient Avenue
Jamestown, RI 02835

DATE
AUGUST 22, 2014

REVISIONS:

DWG.
SHT. 9 OF 9

ROBERT W. FAIRBANKS JR.
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