



Interoffice Memorandum

05-31-18A11:31 RCVD

05-31-18A11:18 RCVD

May 25, 2018

TO: Katie Smith, Manager  
Comptroller Clerk's Office

THROUGH: Cheryl Gillespie, Agenda Development Supervisor  
Agenda Development

FROM: David D. Jones, P.E., CEP, Manager  
Environmental Protection Division  
(407) 836-1405

STAFF PERSON: **Elizabeth R. Johnson, CEP, Assistant Manager**  
**Environmental Protection Division**  
PHONE #: **407-836-1511**

SUBJECT: Request for Public Hearing on July 10, 2018, at 2:00 p.m., for a Shoreline Alteration/Dredge and Fill Permit Application (SADF-17-06-009) located at 11940 Lake Butler Boulevard, on Lake Butler, Parcel ID No. 07-23-28-5616-00-740

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Applicant: Iona Butler Properties, LLC.

Type of Hearing: Shoreline Alteration/Dredge and Fill Permit Application to construct a new seawall without rip rap.

Hearing required by  
Florida Statute # or Code: Chapter 33, Article IV. Windermere Water and Navigation Control District; Section 33-129(d).

Advertising requirements: Publish once in a newspaper of general circulation in Orange County at least seven (7) days prior to public hearing.

Advertising timeframes: At least (7) seven days prior to public hearing.

Abutters to be notified: The applicant and the property owners within 500 feet of the project area will be notified at least seven (7) days prior to public hearing by the Environmental Protection Division (EPD).

Lake Advisory Board  
to be notified: Windermere Water and Navigation Control District, Ijaz Ahmed (Chairman) – [ijazahmed736@gmail.com](mailto:ijazahmed736@gmail.com)

LEGISLATIVE FILE # 18-757

July 10, 2018  
@ 2pm

May 25, 2018

Request for Public Hearing - Shoreline Alteration/Dredge and Fill Permit Application for Iona Butler Properties, LLC (SADF-17-06-009)

Page 2

Municipality or other  
Public Agency to be  
notified:

Florida Department of Environmental Protection -  
[DEP\\_CD@dep.state.fl.us](mailto:DEP_CD@dep.state.fl.us)

Robert Smith – Town Manager, Town of Windermere -  
[Rsmith@town.windermere.fl.us](mailto:Rsmith@town.windermere.fl.us)

Estimated time required  
For public hearing:

2 minutes.

Hearing Controversial: No.

District #: 1.

Materials being submitted as backup for public hearing request:

1. Location Map
2. Site Plan

Special Instructions to Clerk:

1. Once the Board of County Commissioners makes a decision on the Shoreline Alteration/Dredge and Fill Permit Application, please submit the decision letter to Michelle Gonzalez of EPD. EPD will issue the decision to the applicant.

Advertising Language:

2. Iona Butler Properties, LLC, Parcel ID: 07-23-28-5616-00-740, Requests to construct a seawall without rip rap on Lake Butler, pursuant to Chapter 33, Article IV, Windermere Water and Navigation Control District; Section 33-129(d). District 1. Legal Description on file at EPD.

SG/NT/ERJ/DJ: mg

Attachments

c: Chris Testerman, Assistant County Administrator  
Jon V. Weiss, P.E., Director, Community, Environmental and Development Services  
Joel D. Prinsell, Deputy County Attorney

# Shoreline Alteration/Dredge and Fill Permit



**Shoreline Alteration/  
Dredge and Fill Permit  
SADF-17-06-009**

**District 1**

**Applicant:** Iona Butler Properties, LLC

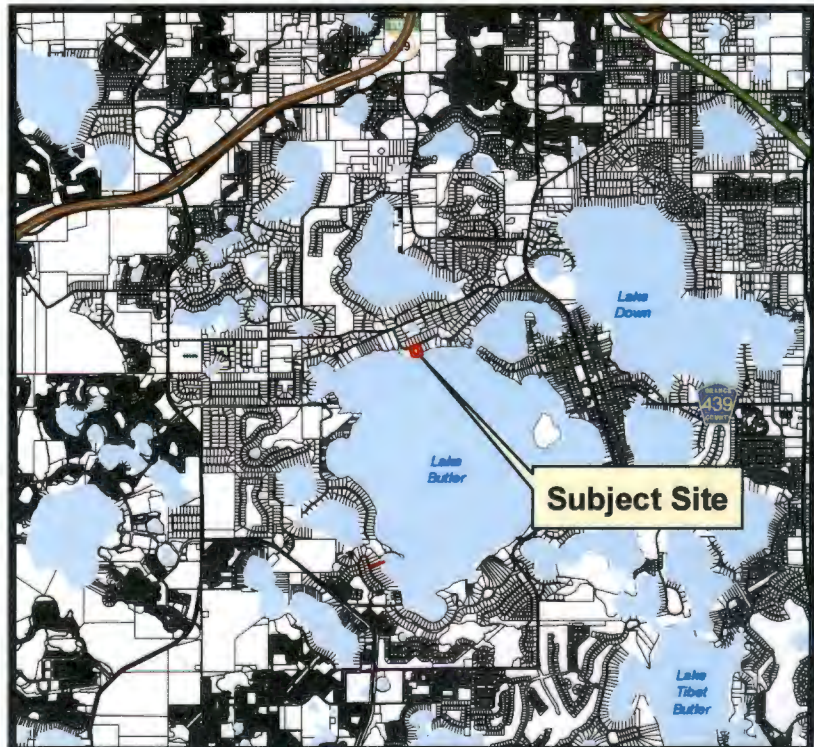
**Address:** 11940 Lake Butler Blvd.

**Parcel ID:** 07-23-28-5616-00-740

**Project Site**



**Property Location**







# SPECIFICATIONS

## PART 1 GENERAL

- 1.1 Scope
 

Work includes furnishing and installing concrete retaining wall units to the lines and grades designated on the construction drawings and specified herein.
- 1.2 Reference Standards
 

ASTM C94 Ready-Mix Concrete  
ASTM C1372 Segregated Retaining Wall Units
- 1.3 Delivery, Storage and Handling
  - A. Contractor shall check the materials upon delivery to assure proper material has been received.
  - B. Contractor shall prevent excessive mud, wet cement and like materials from coming in contact with the SRW units.
  - C. Contractor shall protect the materials from damage. Damaged material shall not be incorporated in the project.

## PART 2 MATERIALS

- 2.1 Wall Units
 

Wall units shall be Red-Rock, as produced by a licensed manufacturer, in accordance with with material specifications published by Red-Rock International. Wall color and face style to be selected by the owner or designer.
- 2.2 Leveling Pad and Backfill
  - A. Leveling pad shall be crushed stone meeting the specifications for FDOT #57 stone.
  - B. Backfill materials shall be approved by the Geotechnical Engineer. Site excavated soils may be used if approved unless otherwise specified in the drawings. Unsuitable soils with a PL > 6 or organic soils shall not be used within a 1:1 (horizontal vertical) influence area behind wall.
  - C. Non-woven geotextile cloth (Minil 140N or equivalent) shall be placed on the back face of the wall as shown on the cross-section.
  - D. Where additional fill is needed, Contractor shall submit sample to the Geotechnical Engineer for approval.
- 2.3 Drainage Media
 

Drainage media placed immediately behind wall shall be FDOT #57 stone.

## PART 3 CONSTRUCTION OF WALL SYSTEM

- 3.1 Excavation
 

Contractor shall excavate to the lines and grades shown on the construction drawings.
- 3.2 Foundation Soil Preparation
  - A. Native foundation soil shall be compacted at least 1 foot below the bottom of the wall to at least 95 percent of the maximum dry density (ASTM D1557) prior to placement of the leveling pad material. In-place density tests shall be performed at a frequency of one test every 100 feet of wall, or a minimum of three tests per wall (whichever is greater).
  - B. Foundation preparation shall be performed under full-time observation by a representative of Universal Engineering Sciences. If foundation substrate materials are found to be unsuitable, the Contractor shall excavate any unsuitable material and backfill with approved material prior to completion.
- 3.3 Foundation Exploration
 

Wall site should be checked for unsuitable organic or clay soils prior to wall construction. Any unsuitable organic or clay soil shall be removed full-depth prior to wall construction.
- 3.4 Unit Installation
 

Units shall be installed in accordance with manufacturer's recommendations and specifications.
- 3.5 Placement of Backfill on Low Side of Wall
 

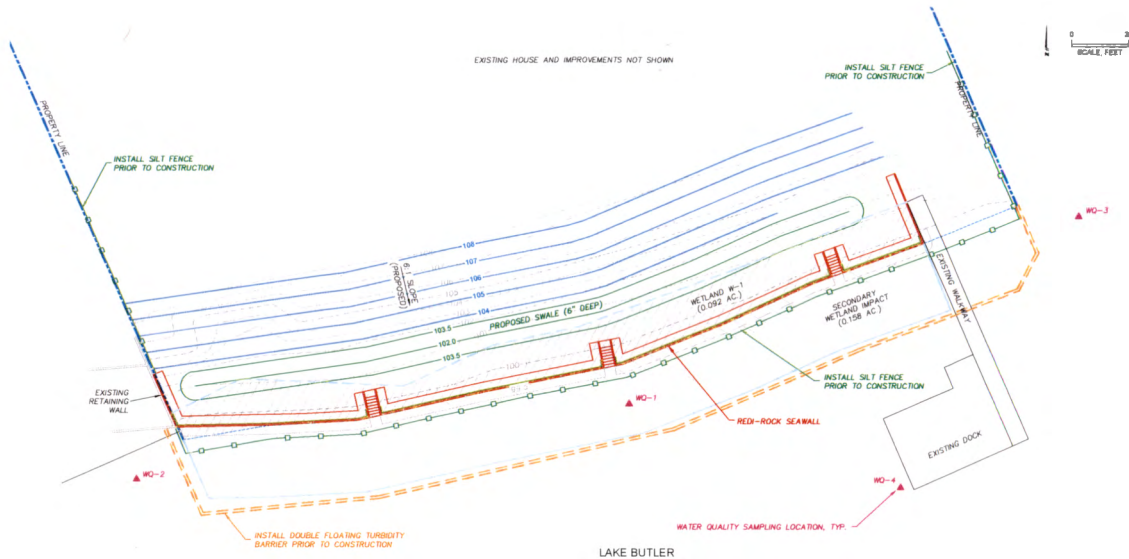
Backfill placed in front of wall, on low side of wall, shall be compacted to at least 95 percent of the Modified Proctor Maximum Dry Density (ASTM D 1587). In-place density tests shall be performed within backfill at a frequency of one test every 100 feet length of wall, or a minimum of four test locations, whichever is greater.

## STRUCTURAL LOADS

FBC 5th EDITION 1603.1.1 THROUGH 1603.1.3 - NOT APPLICABLE  
 WIND LOAD SUMMARY (FBC 5th EDITION SECTION 1603.1.4)  
 ULTIMATE DESIGN WIND SPEED: 129 mph (3 sec gust)  
 NORMAL DESIGN WIND SPEED: 100 mph  
 RISK CATEGORY: I  
 WIND EXPOSURE: C  
 COMPONENTS & CLADDING DESIGN PRESSURE: 26 psf  
 GEOTECHNICAL INFORMATION (FBC 5th EDITION SECTION 1603.1.8)  
 ALLOWABLE BEARING CAPACITY OF SOIL: 2,000 PSF  
 FBC 5th EDITION 1603.1.7 THROUGH 1603.1.9 - NOT APPLICABLE

THIS DESIGN COMPLIES WITH FLORIDA BUILDING CODE  
 2017 (6th EDITION) REQUIREMENTS

# WATER QUALITY MONITORING PLAN



## WATER QUALITY MONITORING PROGRAM

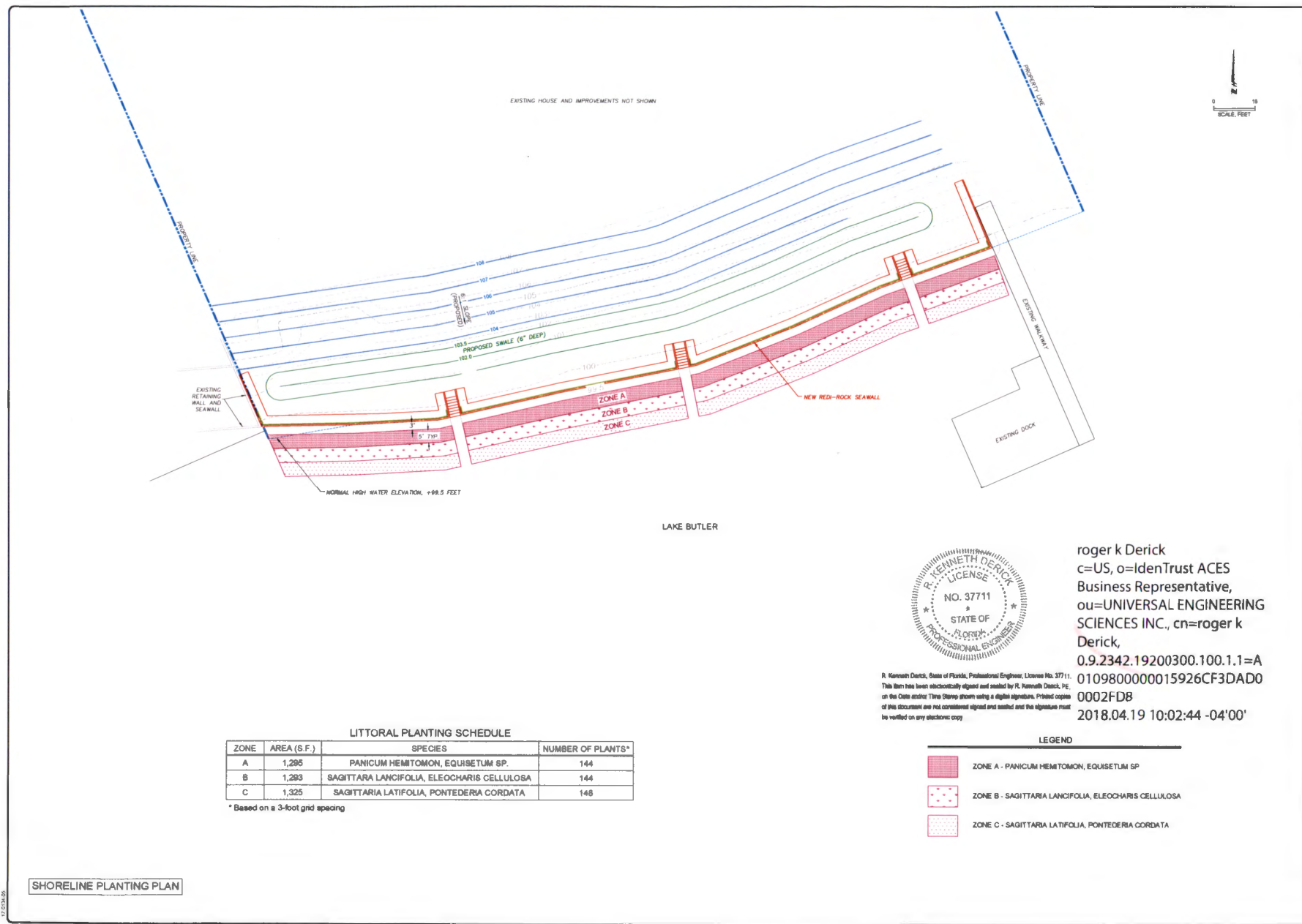
1. Water quality monitoring shall be performed during a period beginning at least 7 days prior to the beginning of work and extending to at least 60 days following the completion of all work.
2. The sampling schedule shall be as follows:
  - a. One sample at each location at least 7 days prior to the beginning of work to obtain background sample data.
  - b. Two samples each day during the period where work is being performed. The samples shall be taken at the beginning and end of each work day.
  - c. One sample at each location at 30 days following completion of the work.
  - d. One sample at each location at 60 days following completion of the work.
3. The following parameters shall be tested for during each sampling event:
  - a. Turbidity
  - b. Temperature
  - c. pH
  - d. Conductivity
  - e. Dissolved Oxygen
4. Reports shall be submitted to the Orange County Environmental Protection Department (OCEPD) weekly throughout the construction period. In addition, reports shall be submitted to OCEPD following the sampling events occurring 30 days and 60 days following the completion of construction.
5. In order to ensure that no water quality violations occur once the project is complete, the double turbidity barrier must remain in place until OCEPD gives approval to remove it.



R. Kenneth Derick, State of Florida, Professional Engineer, License No. 37711  
 This Seal has been electronically signed and sealed by R. Kenneth Derick, P.E., on the Date and at the Location shown using a digital signature. Printed name, address and phone number are not required on any document signed and sealed by the Engineer and the document will be verified on any electronic copy.

roger k Derick  
 o=US, o=IdenTrust ACES  
 Business Representative,  
 ou=UNIVERSAL  
 ENGINEERING SCIENCES  
 INC., cn=roger k Derick,  
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ENGINEER'S SEAL	
R. KENNETH DERICK, P.E. FL REG. NO. 37711	
DATE	
UNIVERSAL ENGINEERING SCIENCES UNIVERSITY OF ALABAMA SYSTEM	
OR	
BUFFALO UNDERGROUND, LLC	NO. DATE
RED-ROCK SEAWALL DESIGN 1840 LAKE BUTLER BOULEVARD WINDERMERE, ORANGE COUNTY, FLORIDA	NO. DATE
SEAWALL SPECIFICATIONS & WATER QUALITY MONITORING PLAN	NO. DATE
DRAWN BY: G.B.	
DATE: 4/18/19	
CHECKED BY: R.K.D.	
DATE: 4/18/19	
PROJ. NO.: G.B.	
SCALE: AS SHOWN	
PROJ. NO.: 0130-170118-0002	
REPORT NO.	
SHEET NO.	
SW-2	



ZONE	AREA (S.F.)	SPECIES	NUMBER OF PLANTS*
A	1,295	PANICUM HEMITOMON, Equisetum SP.	144
B	1,293	SAGITTARIA LANCIFOLIA, ELEOCHARIS CELLULOSA	144
C	1,325	SAGITTARIA LATIFOLIA, PONTEDERIA CORDATA	148

\* Based on a 3-foot grid spacing



R. Kenneth Derick, State of Florida, Professional Engineer, License No. 37711.  
This item has been electronically signed and sealed by R. Kenneth Derick, P.E.,  
on the Date and Time Shown showing a digital signature. Printed copies  
of this document are not considered signed and sealed and this signature must  
be verified on any electronic copy.

roger k Derick  
c=US, o=IdenTrust ACES  
Business Representative,  
ou=UNIVERSAL ENGINEERING  
SCIENCES INC., cn=roger k  
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#### LEGEND

- ZONE A - PANICUM HEMITOMON, Equisetum SP.
- ZONE B - SAGITTARIA LANCIFOLIA, ELEOCHARIS CELLULOSA
- ZONE C - SAGITTARIA LATIFOLIA, PONTEDERIA CORDATA

ENGINEER'S SEAL	
R. KENNETH DERICK, P.E. FL. REG. NO. 37711	
DATE	
UNIVERSAL ENGINEERING SCIENCES ENGINEERING SCIENCE	
FOR	
BUFFALO UNDERGROUND, LLC	
RED-ROCK SEAWALL DESIGN 11840 LAKE BUTLER BOULEVARD WINDERMERE, ORANGE COUNTY, FLORIDA	
SHORELINE PLANTING PLAN	
DESIGNED BY	G B
CHECKED BY	R K D
DATE	4/19/18
PROD. NO.	G B
SCALE	AS SHOWN
PROJ. NO.	0130 1700118-0000
REPORT NO.	
UNIVERSAL ENGINEERING SCIENCES	
SHEET NO. SW-3	