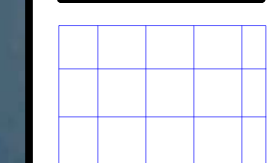




**LEGEND:**



**PROPOSED BIRD NESTING ENHANCEMENT AREA**

**PROPERTY LINE**

**2014 SURVEY ELEVATION POINT**

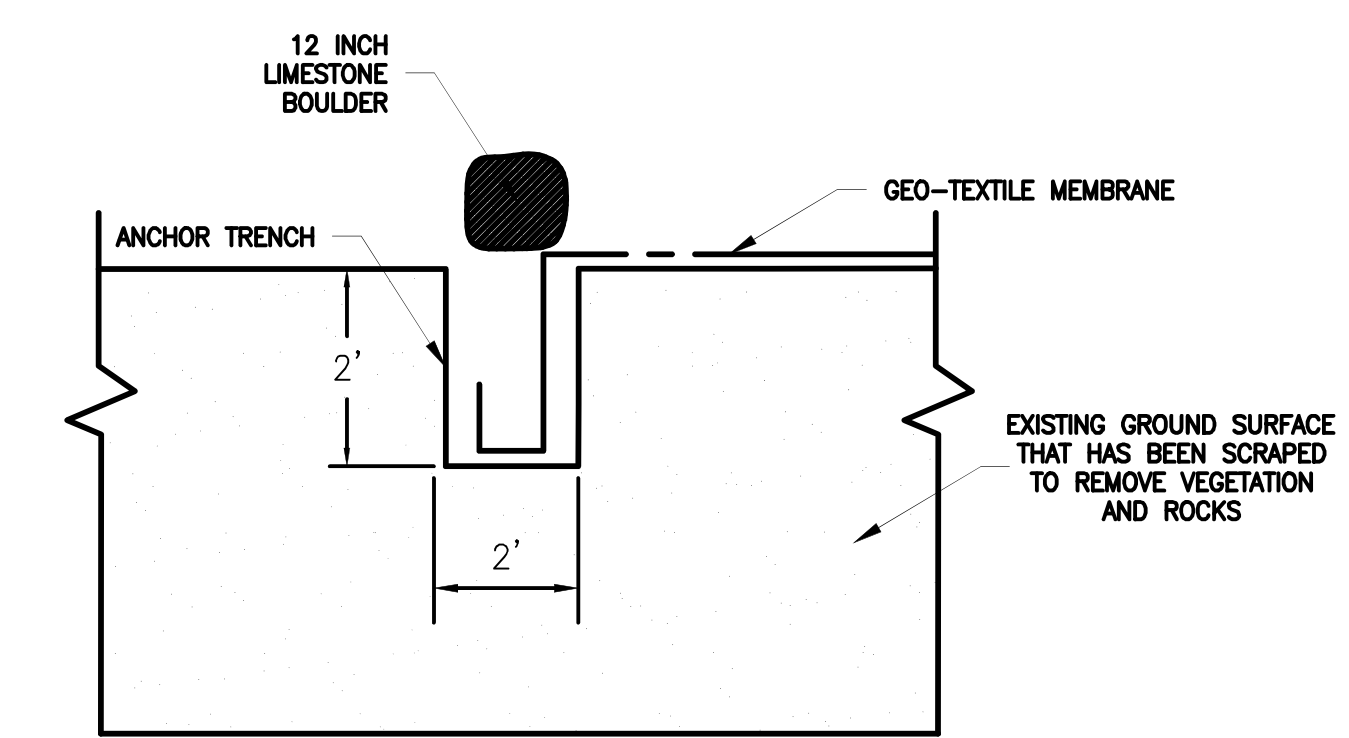
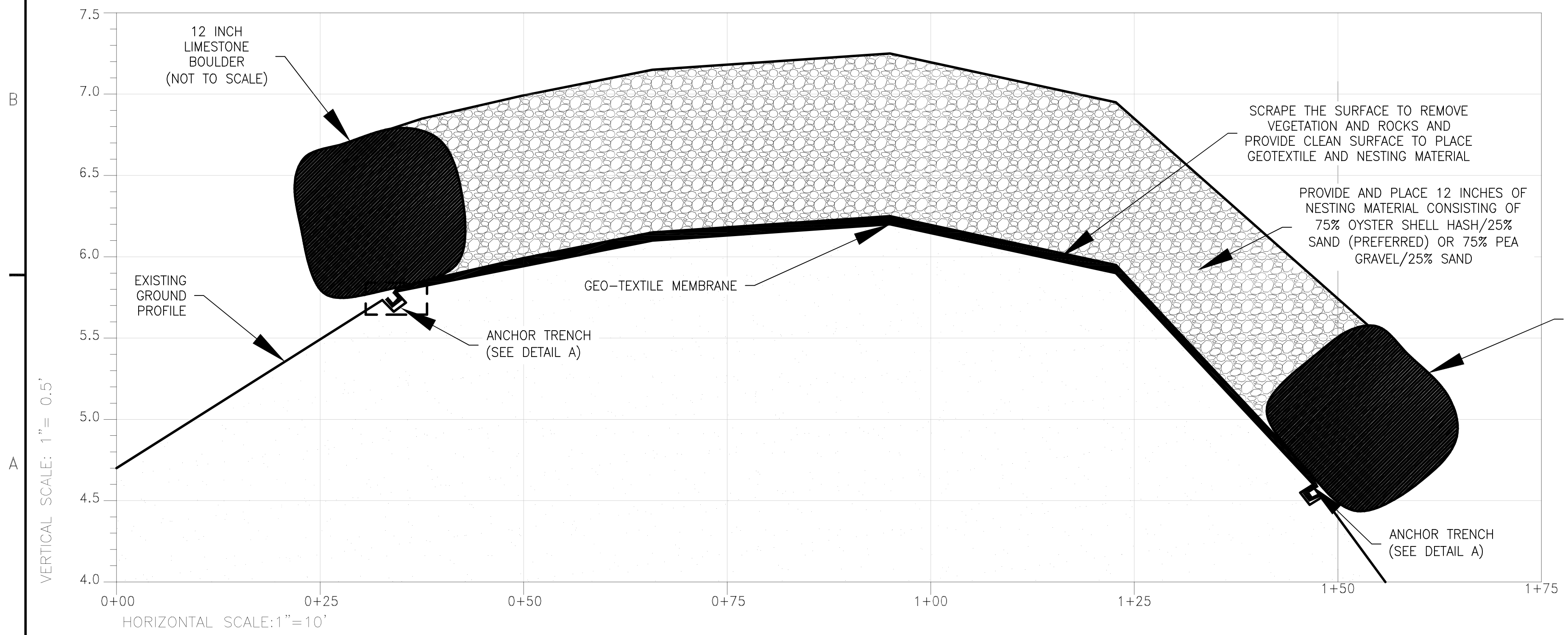
**2016 SPECIAL PURPOSE SURVEY**

**EXISTING NAVIGATION CHANNEL**

**SOURCES:**

1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

**BIRD NESTING HABITAT ENHANCEMENT AREA (SECTION A)**



**DETAIL A (NOT TO SCALE)**

| SECTION | STATION | NORTHING  | EASTING    | ELEVATION |
|---------|---------|-----------|------------|-----------|
| A       | 0+00    | 332915.30 | 1964462.60 | 4.7'      |

PREPARED BY:

**amec foster wheeler**  
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850-656-1293  
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0 30' 60'

SCALE: 1"= 30'

JON M. DINGES,  
STATE OF FLORIDA,  
PROFESSIONAL ENGINEER,  
LICENSE No. 54747

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PROJECT:  
**ESTUARINE HABITAT ENHANCEMENT AT THE FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY**

FWC PROJECT No:  
FWC 15/16-026-16  
Amec Foster Wheeler  
PROJECT No: 600518

| REVISIONS |      |    |          |
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| DESIGNED BY: | JMD       |
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| CHECKED BY:  | RJW       |
| APPROVED BY: | JMD       |
| DATE:        | 8/18/2017 |

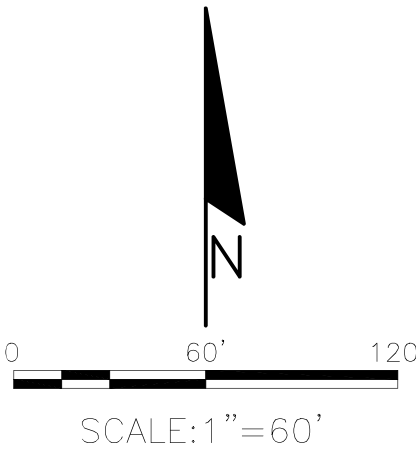
SHEET TITLE:  
**BIRD NESTING HABITAT ENHANCEMENT PLAN AND PROFILE VIEWS**

|                      |        |
|----------------------|--------|
| SHEET NUMBER:        | REV. # |
| <b>C320</b>          |        |
| SHEET 8 OF 13 SHEETS |        |



PREPARED BY:

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**ESTUARINE HABITAT  
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AND MARINE  
LABORATORY**



FWC PROJECT No:  
FWC 15/16-026-16  
Amec Foster Wheeler  
PROJECT No: 600518

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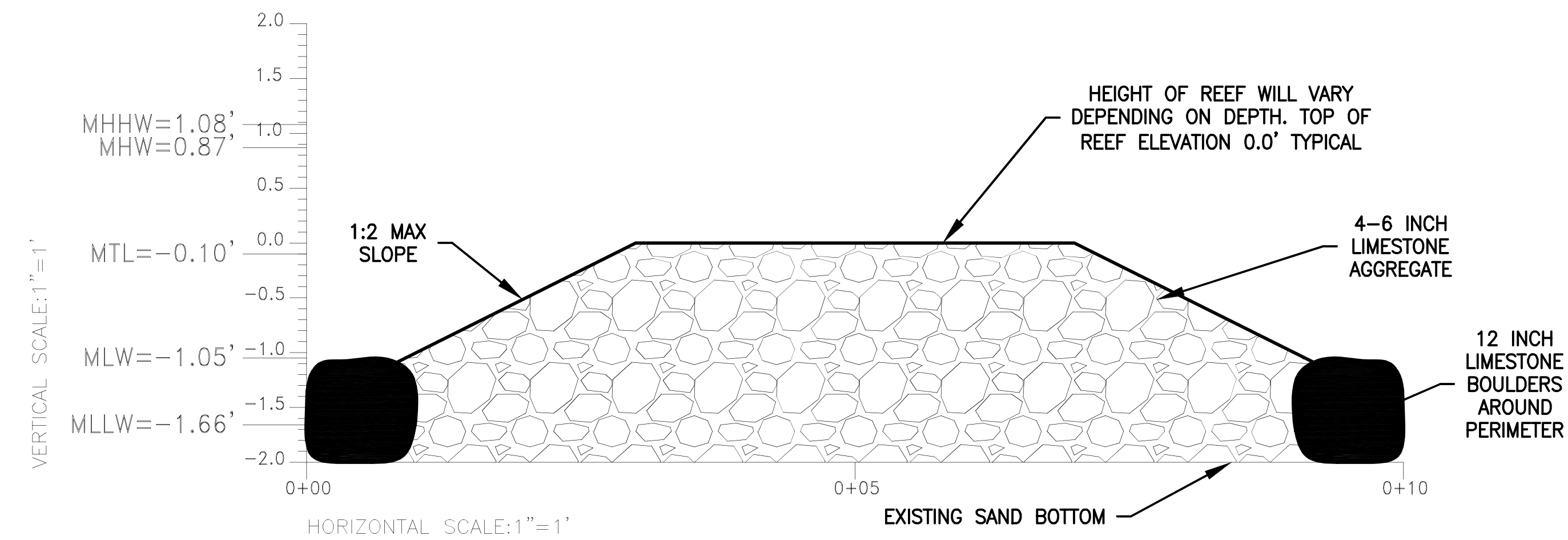
SHEET TITLE:  
**DREDGE SPOIL  
DISPOSAL AREA  
PLAN VIEW**

|                                    |        |
|------------------------------------|--------|
| SHEET NUMBER:                      | REV. # |
| <b>C330</b>                        |        |
| SHEET <b>9</b> OF <b>13</b> SHEETS |        |

- SOURCES:**
1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
  2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
  3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

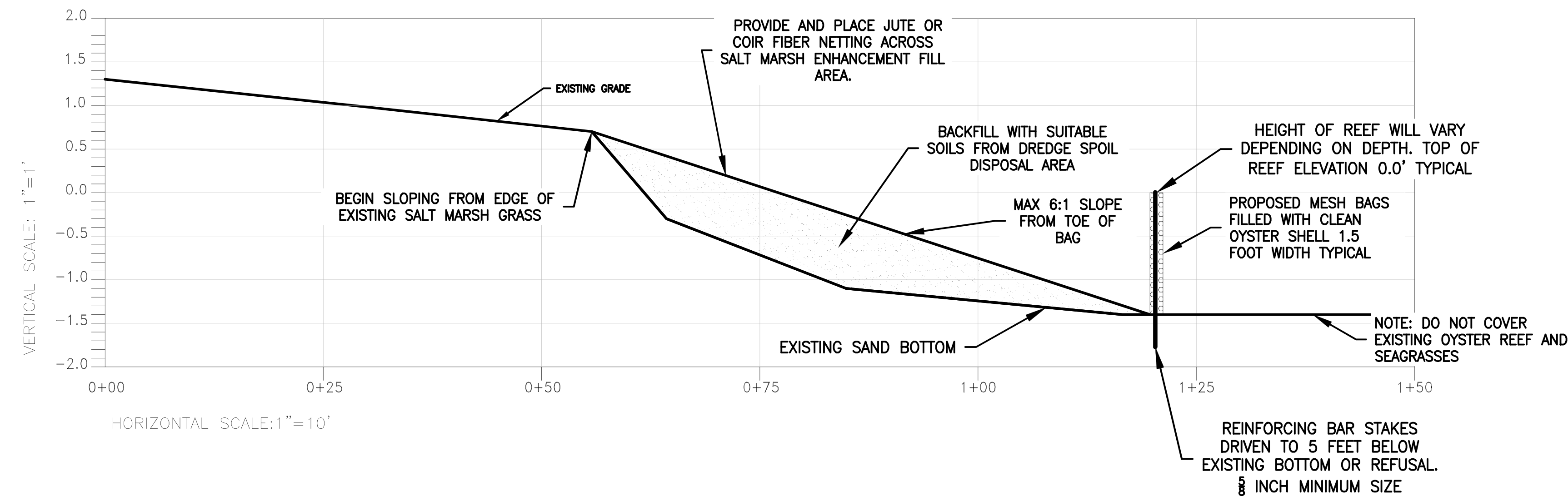
E

### TYPICAL NEAR SHORE OYSTER REEF SECTION (SECTION E FROM SHEET C300)



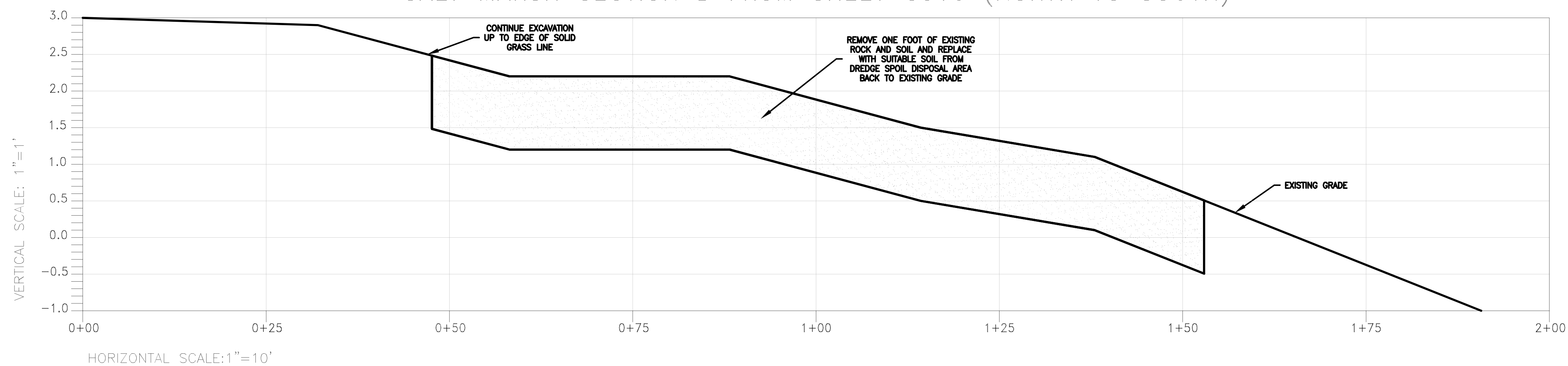
D

### TYPICAL SALT MARSH ENHANCEMENT AREA SECTION (SECTION C FROM SHEET C310)



C

### SALT MARSH SECTION B FROM SHEET C310 (NORTH TO SOUTH)



B

A

| SECTION | STATION | NORTHING  | EASTING    | ELEVATION |
|---------|---------|-----------|------------|-----------|
| B       | 0+00    | 333038.24 | 1965044.64 | 3.0'      |
| C       | 0+00    | 333003.73 | 1965072.65 | 1.3'      |
| E       | 0+00    | 332476.83 | 1964686.87 | -2.0'     |

PREPARED BY:



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PROJECT:  
**ESTUARINE HABITAT  
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AND MARINE  
LABORATORY**



FWC PROJECT No:  
FWC 15/16-026-16  
Amec Foster Wheeler  
PROJECT No: 600518

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SHEET TITLE:

**TYPICAL CROSS  
SECTIONS**

|                       |        |
|-----------------------|--------|
| SHEET NUMBER:         | REV. # |
| <b>C400</b>           |        |
| SHEET 10 OF 13 SHEETS |        |



**LEGEND:**  
— PROPOSED SILT FENCE  
— PROPERTY LINE

- SOURCES:**
1. FDOT AERIAL PHOTOGRAPHY DATED 2016
  2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016
  3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

PREPARED BY:

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N

0 100' 200'

SCALE: 1" = 100'

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PROJECT:  
**ESTUARINE HABITAT ENHANCEMENT AT THE FLORIDA STATE UNIVERSITY COASTAL AND MARINE LABORATORY**



FWC PROJECT No:  
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Amec Foster Wheeler  
PROJECT No: 600518

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SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN (NORTH)**

|                                     |        |
|-------------------------------------|--------|
| SHEET NUMBER:                       | REV. # |
| <b>C500</b>                         |        |
| SHEET <b>11</b> OF <b>13</b> SHEETS |        |



- LEGEND:**
- EXISTING SALT MARSH
  - EXISTING SEA GRASS
  - EXISTING OYSTER REEF
  - PROPOSED SALT MARSH
  - PROPOSED OYSTER REEFS
  - PROPOSED BAG OYSTER REEFS
  - PROPOSED LOW PROFILE MESH MAT
  - PROPOSED SILT FENCE
  - PROPOSED FLOATING TURBIDITY BARRIERS
  - PROPERTY BOUNDARY

**SOURCES:**

1. FDOT AERIAL PHOTOGRAPHY DATED 2016.
2. SPECIAL PURPOSE SURVEY BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION DATED 10-27-2016.
3. MEAN HIGH WATER LINE SURVEY BY NOBLES CONSULTING GROUP, INC DATED 4-2-2014

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0 100' 200'

SCALE: 1" = 100'

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PROJECT:  
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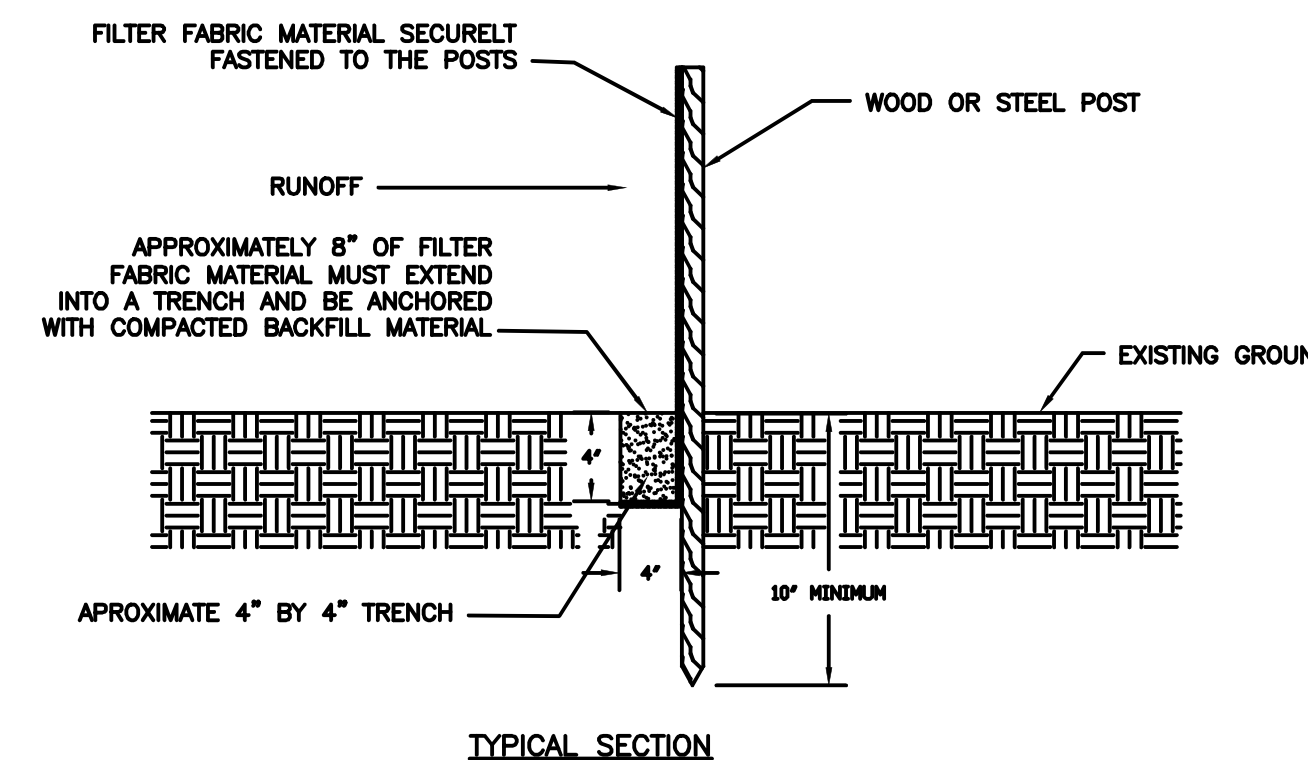
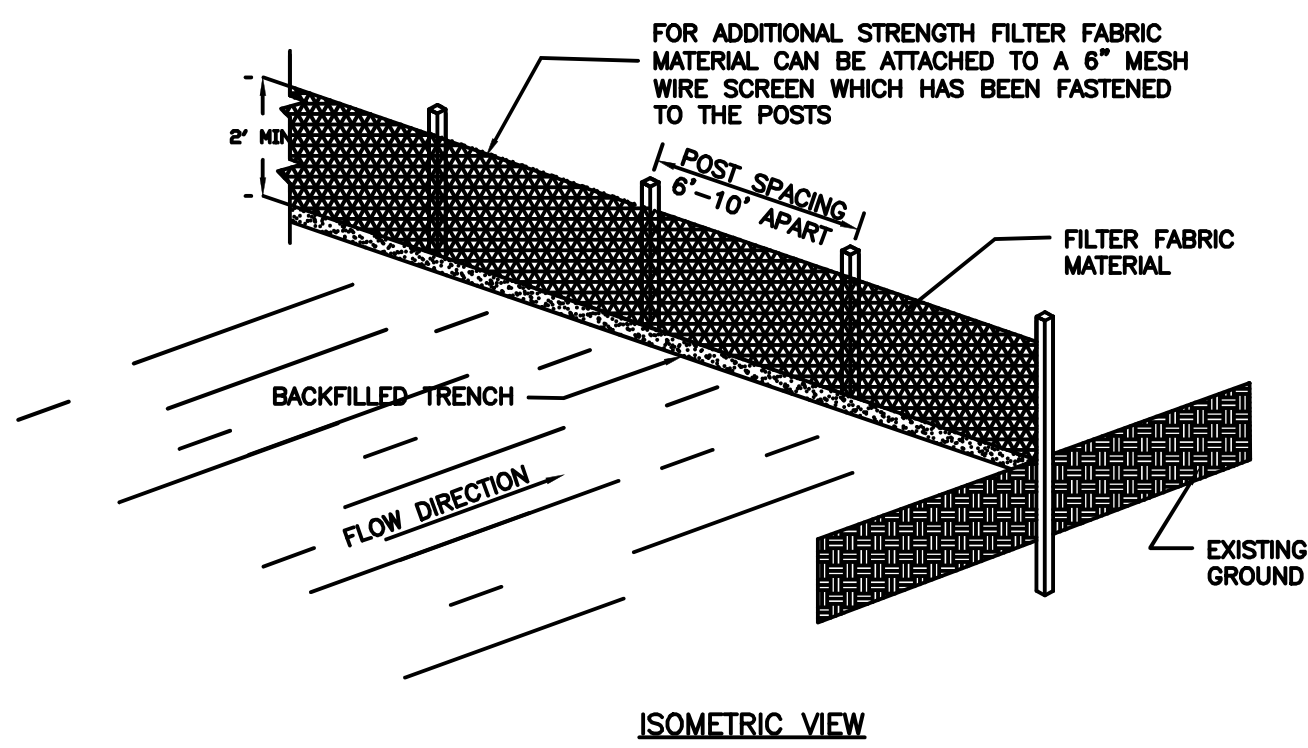
FWC PROJECT No:  
FWC 15/16-026-16  
Amec Foster Wheeler  
PROJECT No: 600518

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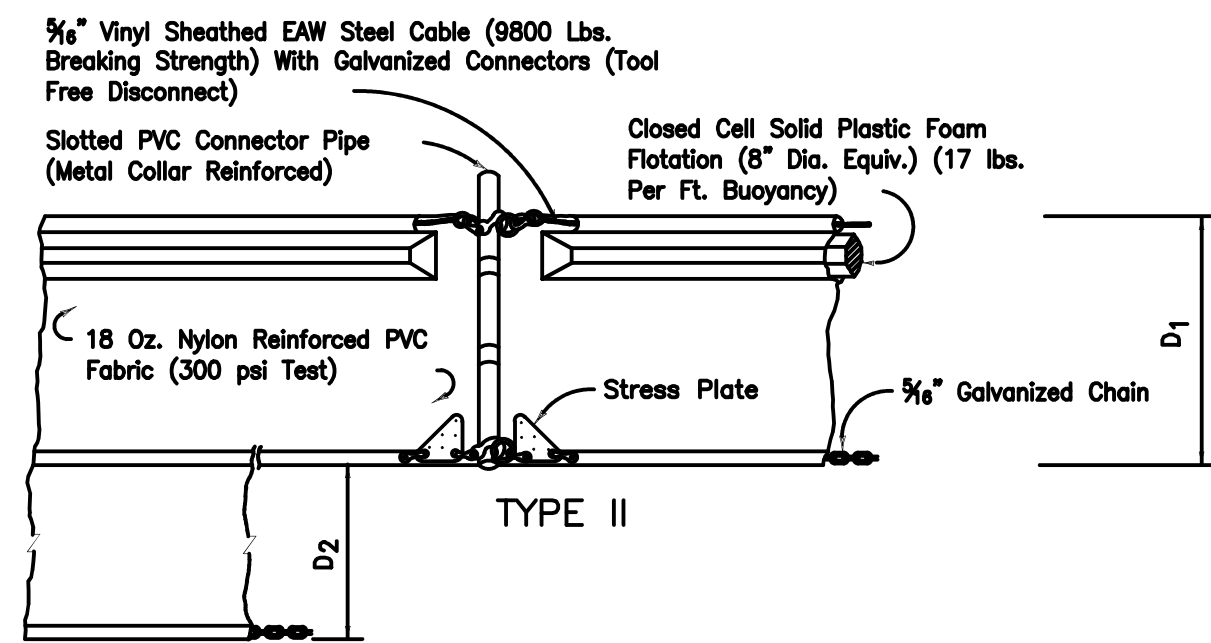
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| APPROVED BY: | JMD       |
| DATE:        | 8/18/2017 |

SHEET TITLE:  
**EROSION AND SEDIMENT CONTROL PLAN (SOUTH)**

|                                     |        |
|-------------------------------------|--------|
| SHEET NUMBER:                       | REV. # |
| <b>C510</b>                         |        |
| SHEET <b>12</b> OF <b>13</b> SHEETS |        |

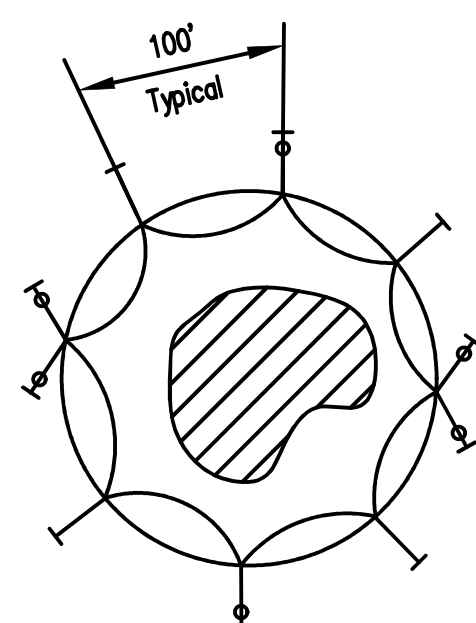


**FILTER FABRIC SILT FENCE INSTALLATION**  
N.T.S.



D1=1' Std. from bottom at mean low water level (Single Panel For Depths 5' or Less), D2=5' Std. (Additional Panel For Depths > 5'). Curtain To Reach Bottom Up To Depths Of 10 Feet. Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

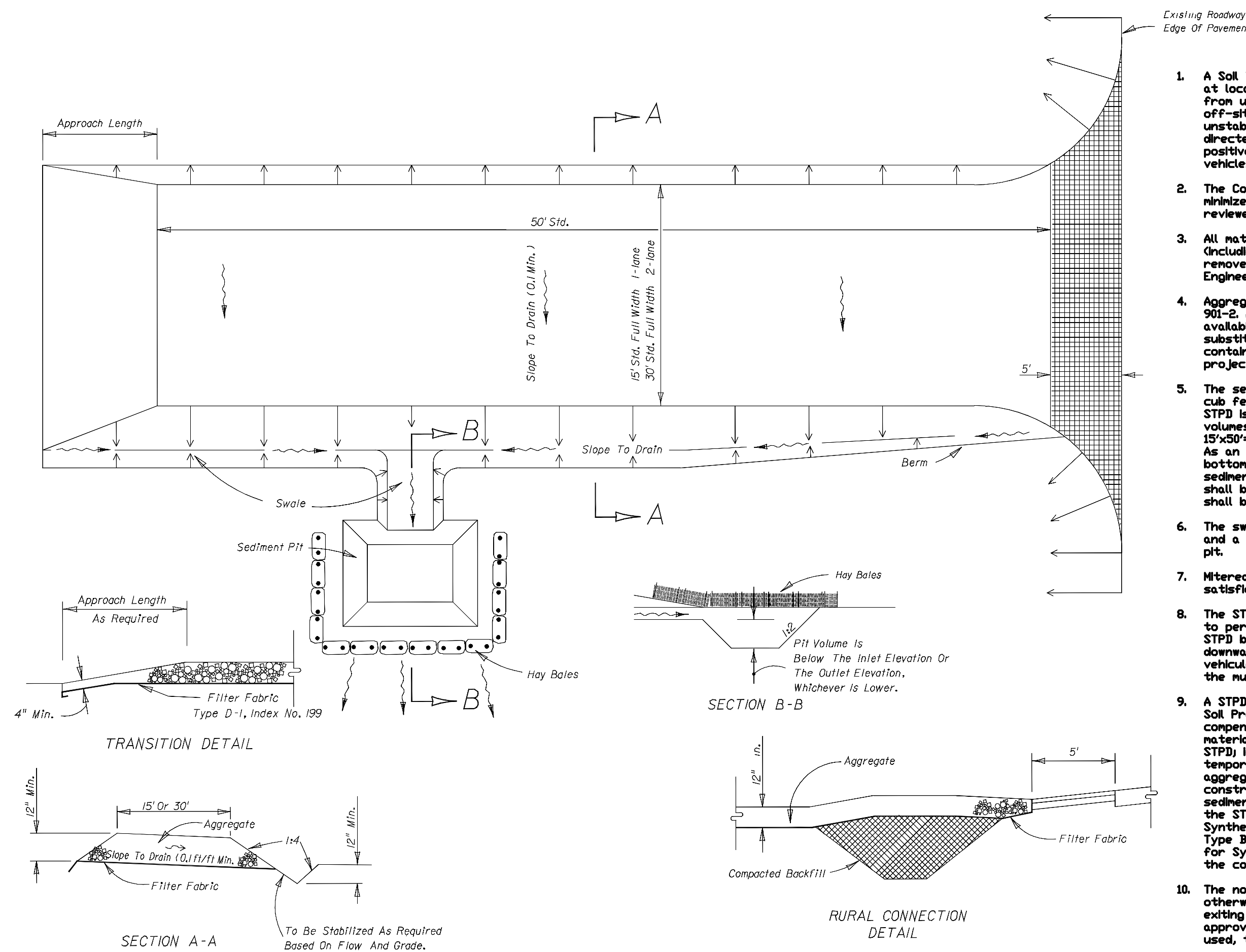


- LEGEND:
- DREDGE OR FILL AREA
  - MOORING BUOY WITH ANCHOR
  - ANCHOR
  - BARRIER MOVEMENT DUE TO WIND AND WAVE ACTION

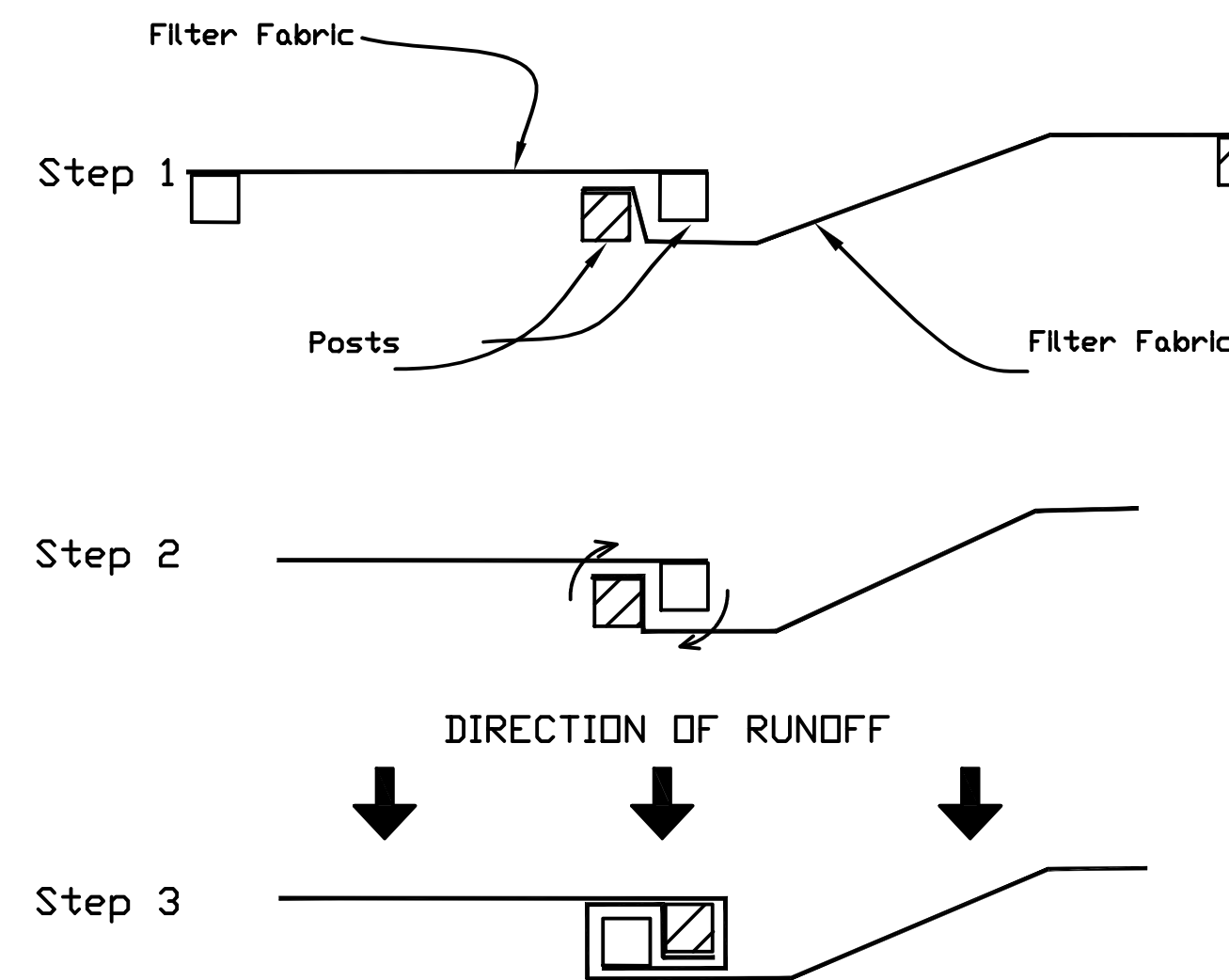
- NOTES:
- Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  - Number and spacing of anchors dependent on current velocities.
  - Deployment of barrier around pile locations may vary to accommodate construction operations.
  - Navigation may require segmenting barrier during construction operations.

## FLOATING TURBIDITY BARRIERS

N.T.S.



Note: This erosion and sediment control plan indicates a reasonable plan for management of placement and installation of best management practices, however the contractor shall be responsible for development and maintenance of a storm water pollution prevention plan throughout construction and development of permanent erosion control at the completion of this project.



## ATTACHING TWO SILT FENCES

N.T.S.

- NOTES:
- Place the end post of the second fence inside the end post of the first fence.
  - Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
  - Drive both posts a minimum of 10 inches into the ground and bury the flap.

PREPARED BY:  
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SHEET TITLE:

**DETAILS**

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|-----------------------|--------|
| SHEET NUMBER:         | REV. # |
| <b>C600</b>           |        |
| SHEET 13 OF 13 SHEETS |        |