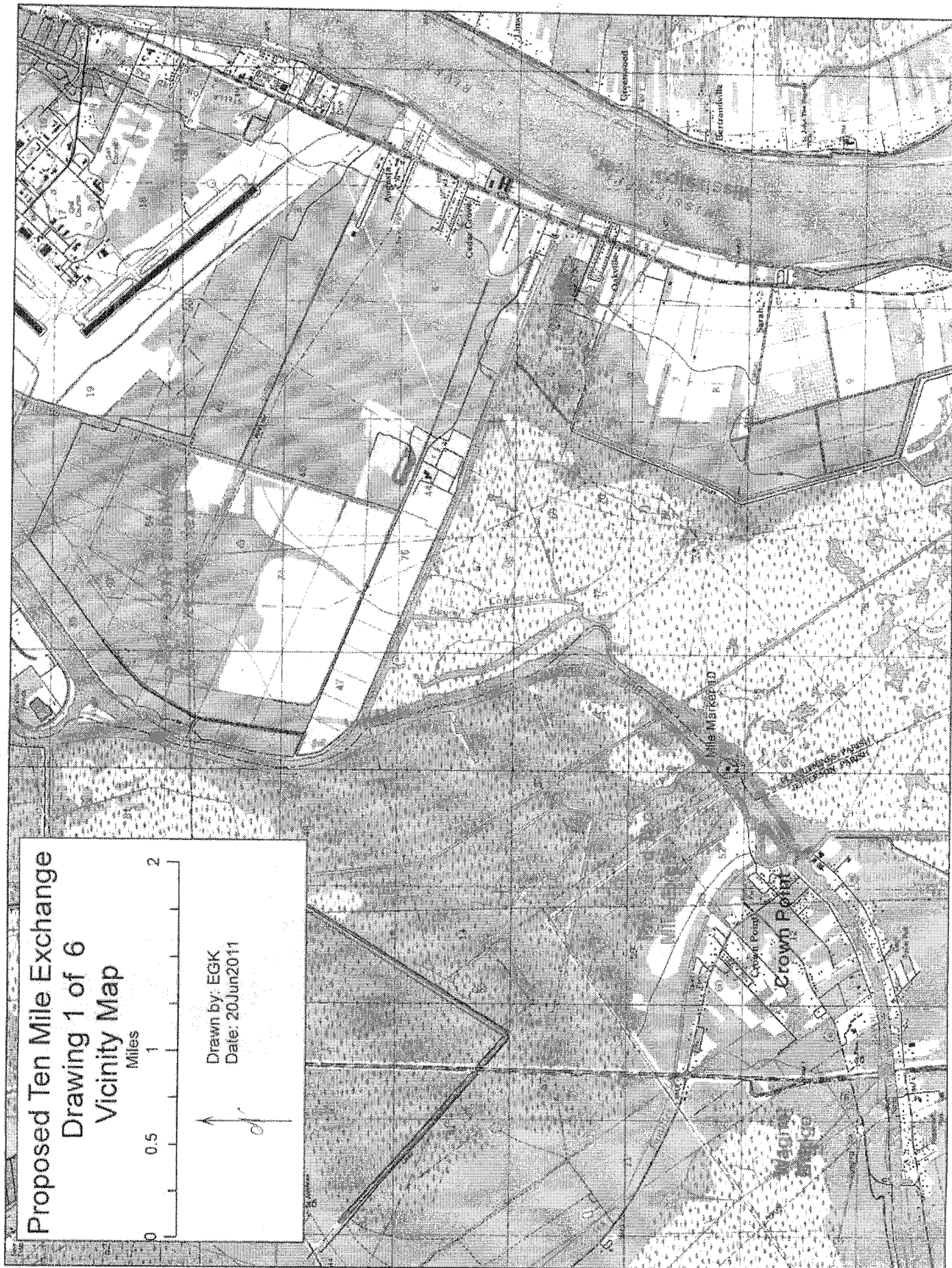



Miles

0 0.5 1 2

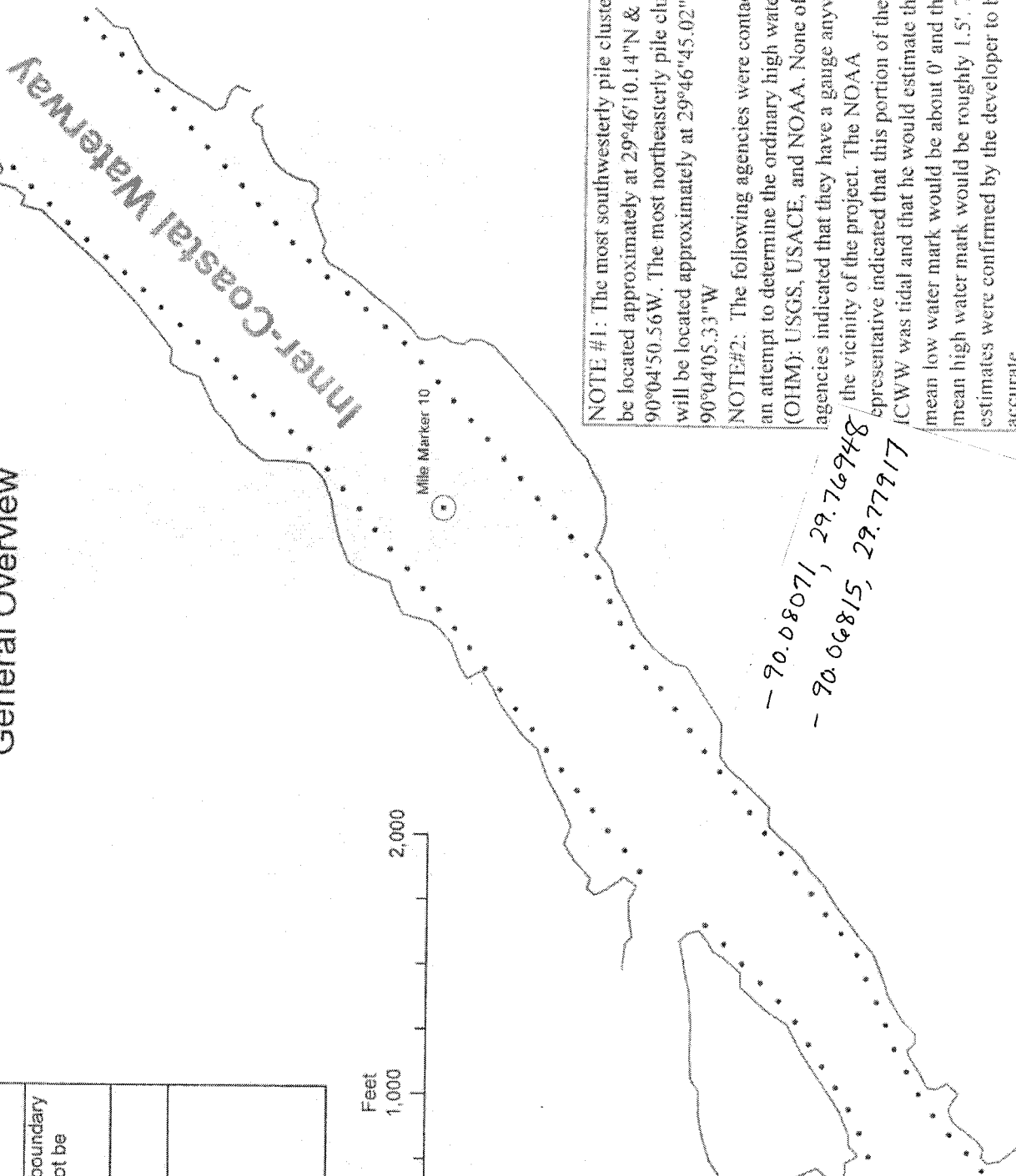


# Proposed Ten Mile Exchange Drawing 2 of 6 General Overview

<p>● Mile Marker 10</p> <p>— Bank</p> <p>• dolphin</p>	<p>This survey is not a boundary survey and should not be utilized as such</p>	<p>Drawn by: EGK</p> <p>Date: 20Jun2011</p>	
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0.15 Miles To  
Crown Point LA



NOTE #1: The most southwesterly pile cluster will be located approximately at 29°46'10.14"N & 90°04'50.56"W. The most northeasterly pile cluster will be located approximately at 29°46'45.02"N & 90°04'05.33"W

NOTE#2: The following agencies were contacted in an attempt to determine the ordinary high water mark (OHM): USGS, USACE, and NOAA. None of these agencies indicated that they have a gauge anywhere in the vicinity of the project. The NOAA representative indicated that this portion of the ICWW was tidal and that he would estimate that the mean low water mark would be about 0' and that the mean high water mark would be roughly 1.5'. These estimates were confirmed by the developer to be accurate.

- 90.08071, 29.76948  
- 90.06815, 29.77917



# Proposed Ten Mile Exchange Drawing 3 of 6 General Overview with 2004 Aerial Photograph

● Mile Marker 10

— Bank

• dolphin

This survey is not a boundary  
survey and should not be  
utilized as such

Drawn by: EGK

Date: 20Jun2011



0.15 Miles To  
Growth Point LA

Mile Marker 10

Intercoastal

# Proposed Ten Mile Exchange Drawing 4 of 6 Close-Up Overview Of Ten Mile Marker

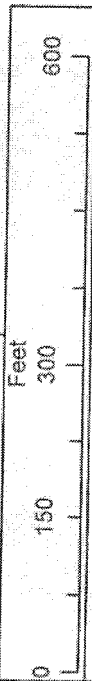
● Mile Marker 10

— Bank

• dolphin

This survey is not a boundary  
survey and should not be  
utilized as such

Drawn by: EGK  
Date: 20Jun2011



\*\*\*Note Dolphin locations are approximant.  
At no point will a dolphin be placed closer  
than 15' from the edge of the bank.  
However, actual dolphin placement may  
vary slightly from this drawing.

Inner-Coastal Waterway

~100'

~650'

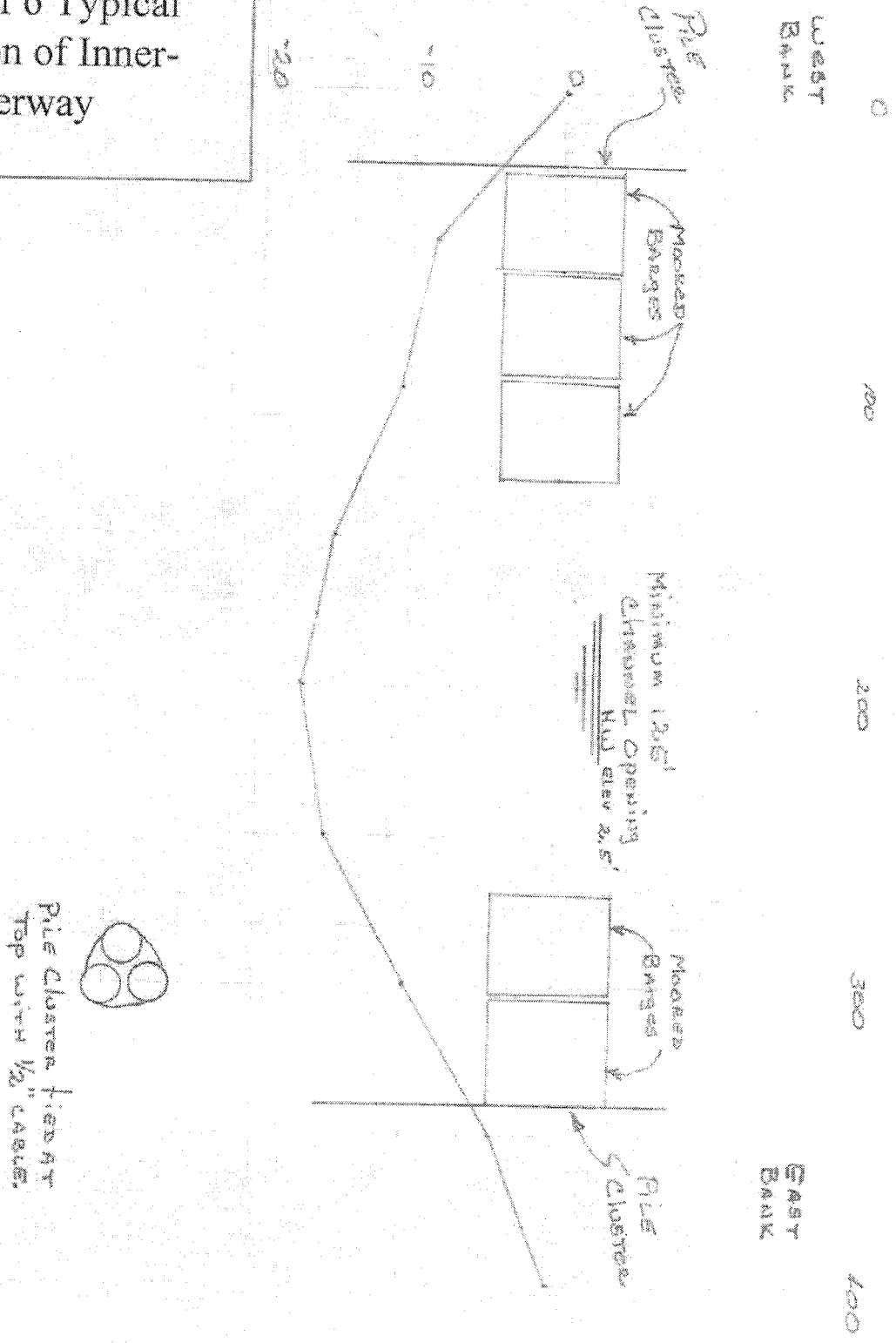
~30'

~55'

Mile Marker 10



# Drawing 5 of 6 Typical Cross-Section of Inner- Coastal Waterway

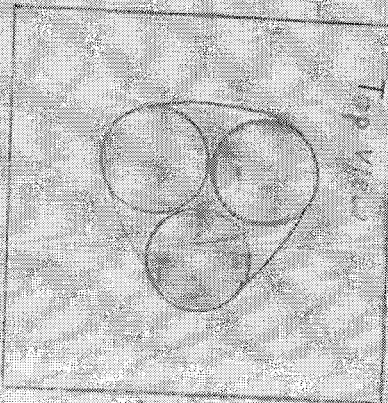


Pile Cluster tied at  
top with 1/2" cables.

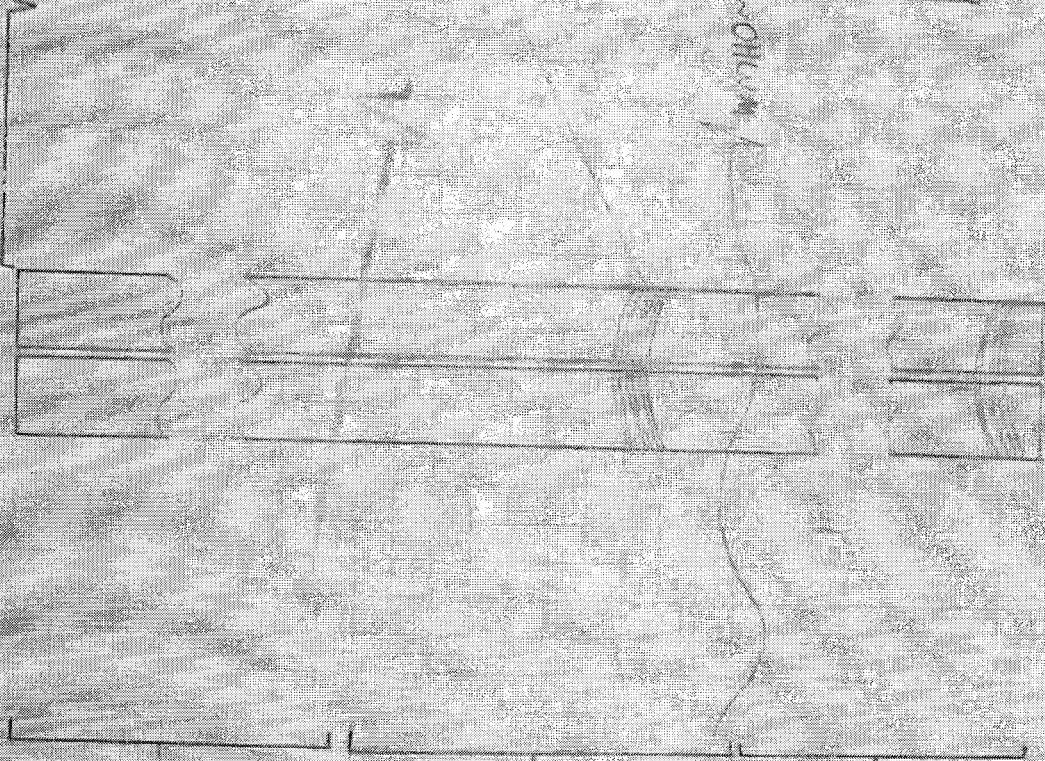
TEN MILE EXCHANGE  
INTRA-COASTAL WATERWAY  
TYPICAL CROSS-SECTION  
TEN MILE EXCHANGE  
MAY 25, 2011



# Drawing 6of6 Typical Cross-Section of Dolphin



Cross-Section View



NOTE#1: The piles will be utilized mainly by barges. There will be a range of drafts as not all barges will be full at the time of mooring. A fully loaded barge will draft 9'. No vessels with drafts deeper than this will be allowed to moor at the pilings.

NOTE#2: The vessels used to install the pile clusters will draw a draft of roughly 3'-4'.

12' Exposed above water surface

10-11' from CHW to ground

20' Buried in the ground

Three 12" piles driven together using 4 inch steel cable

NOTE#3: All pile clusters will be placed where there is a minimum of roughly 10-11' between the ordinary high water mark and bottom of the ICWW. This will be done specifically to avoid the need for dredging operations. It should be noted that fully loaded barge tows are currently mooring to the trees on the bank applicant's property. All pile clusters will be located 15-20 feet from the bank. This will ensure that there is sufficient depth for the barges to float without damaging the bottom.

Bank

20' from piling to bank