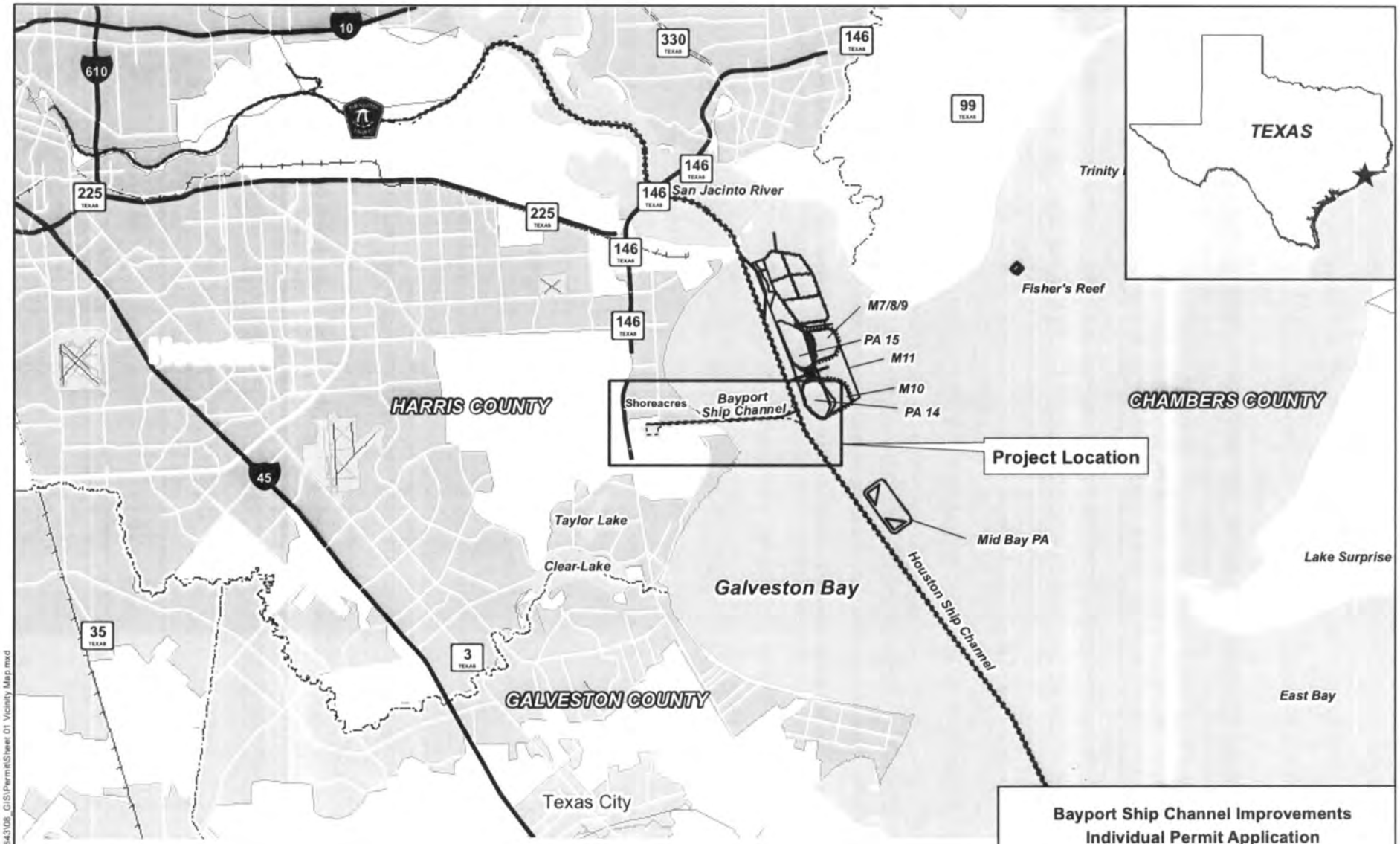


Legend

- Existing Channel Limits
- Channel Centerline
- Fisher Reef

N W E S

0 4

Miles

Bayport Ship Channel Improvements
Individual Permit Application

Vicinity Map

SWG-2011-01183

County: Chambers and Harris State: Texas

Application By: Port of Houston Authority

Sheet 1 of 6 Date: February 2012

Path: P:\Bayport_Ch_Deepen_Widen_60163643\08_GIS\Permit\Sheet 01 Vicinity Map.mxd

APR 2 0 2012

225
146
1405
Baytown
2354
2354
Morgan's Point
Houston Ship Channel
Atkinson Marsh Cell
M5/6
Beach City
146
146
La Porte
Outer limits of study area for location of New BU Marsh.
A
B
Atkinson Marsh Cell
M7/8/9
PA 15
PA 14/15 Connection
Approximately 411 acre conceptual marsh feature with final location and configuration to be determined prior to permit approval.
Atkinson Marsh Cell
M11
Transition 100' to 50' Widening
Atkinson Marsh Cell
M10
PA 14
D
C
Shoreacres
146
Bayport Ship Channel
Bayport Turning Basin
146
Pasadena
Galveston Bay
Mid Bay PA

Legend

PROPOSED PROJECT

- 100 Feet Widening and Proposed Deepening
- 50 Feet Widening and Proposed Deepening
- Proposed Deepening to -45' MLT
- Deepening of Flare Easing to -45' MLT

New BU Marsh Placement Option

- Levee (Conceptual)
- Maintenance Material Placement

Raise Levees in Existing PAs Placement Option

- Raise Existing Levee
- Construct Levee Previously Planned by USACE
- Maintenance Material Placement

EXISTING CHANNEL AND PLACEMENT FEATURES

- Existing Channel Limits (Bottom Width Extents Shown)
- Channel Centerline

PAs Already Built, In-Progress, or Planned by USACE

Status

- Completed
- Levee Constructed or In Progress

Proposed New BU Marsh - Outer Limits of Study Area

	X	Y
A	3,242,450	13,804,107
B	3,246,894	13,804,346
C	3,250,588	13,794,331
D	3,243,273	13,793,936
Total Area	1,379 Acres	

Coordinate System: NAD 1983 State Plane Texas South Central FIPS 4204 Feet

N
W E
S

0 6,000
Feet

GENERAL NOTES:

1. Project limits and features shown for illustrative purposes only.
2. Widening extents shown to toe of channel.

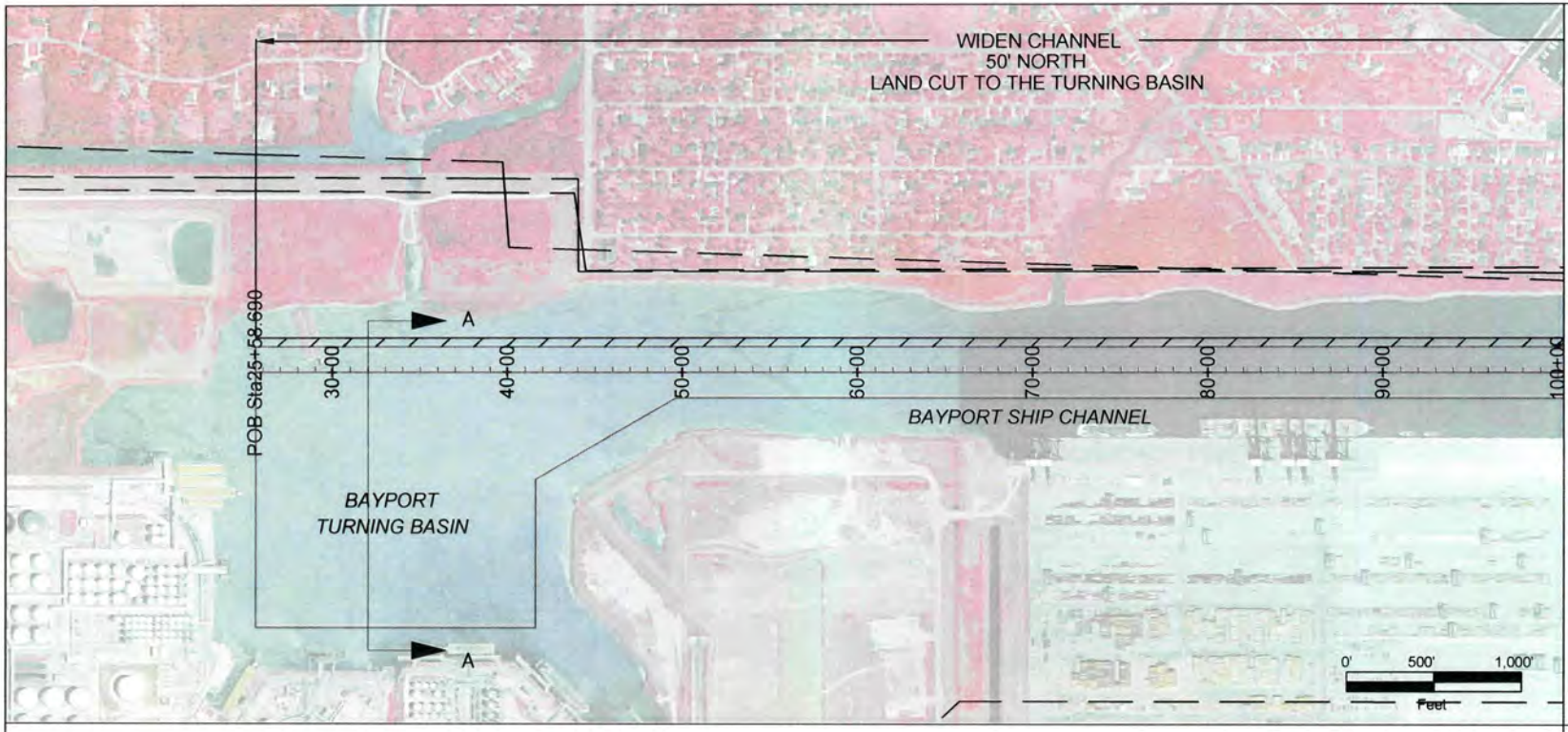
Bayport Ship Channel Improvements
Individual Permit Application
SWG-2011-01183
Project Area and Proposed Project

County: Chambers and Harris State: Texas

Application By: Port of Houston Authority

Sheet 2 of 6 Date: April 2012

Path: P:\Bayport_Ch_Deepen_Widen_60183543\08_GIS\Permit\Sheet 02 Project Site_Rev_2012-04-17.mxd



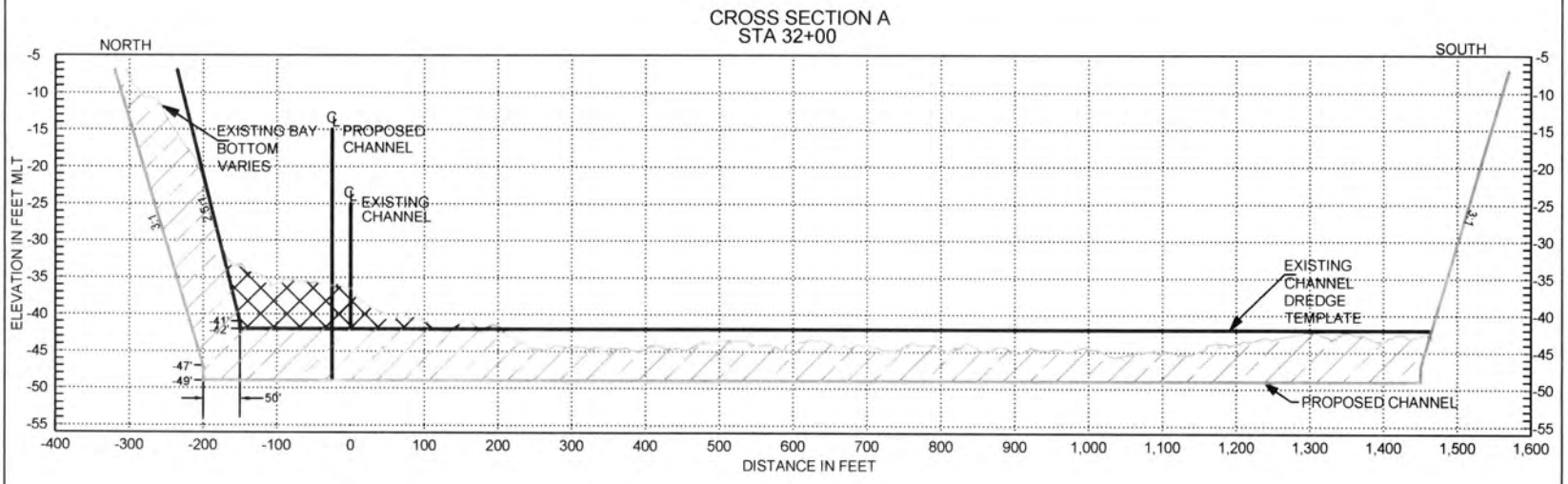
SWG-2011-01183

Bayport Ship Channel Improvements
Individual Permit Application

Preferred Channel Alternative
& Cross Sections - Turning Basin Detail

State: Texas
Date: February 2012

County: Chambers and Harris
Application By: Port of Houston Authority
Sheet: 3 of 6



CROSS SECTION LEGEND:

MAINTENANCE MATERIAL

AREA TO BE DREDGED FOR NEW WORK

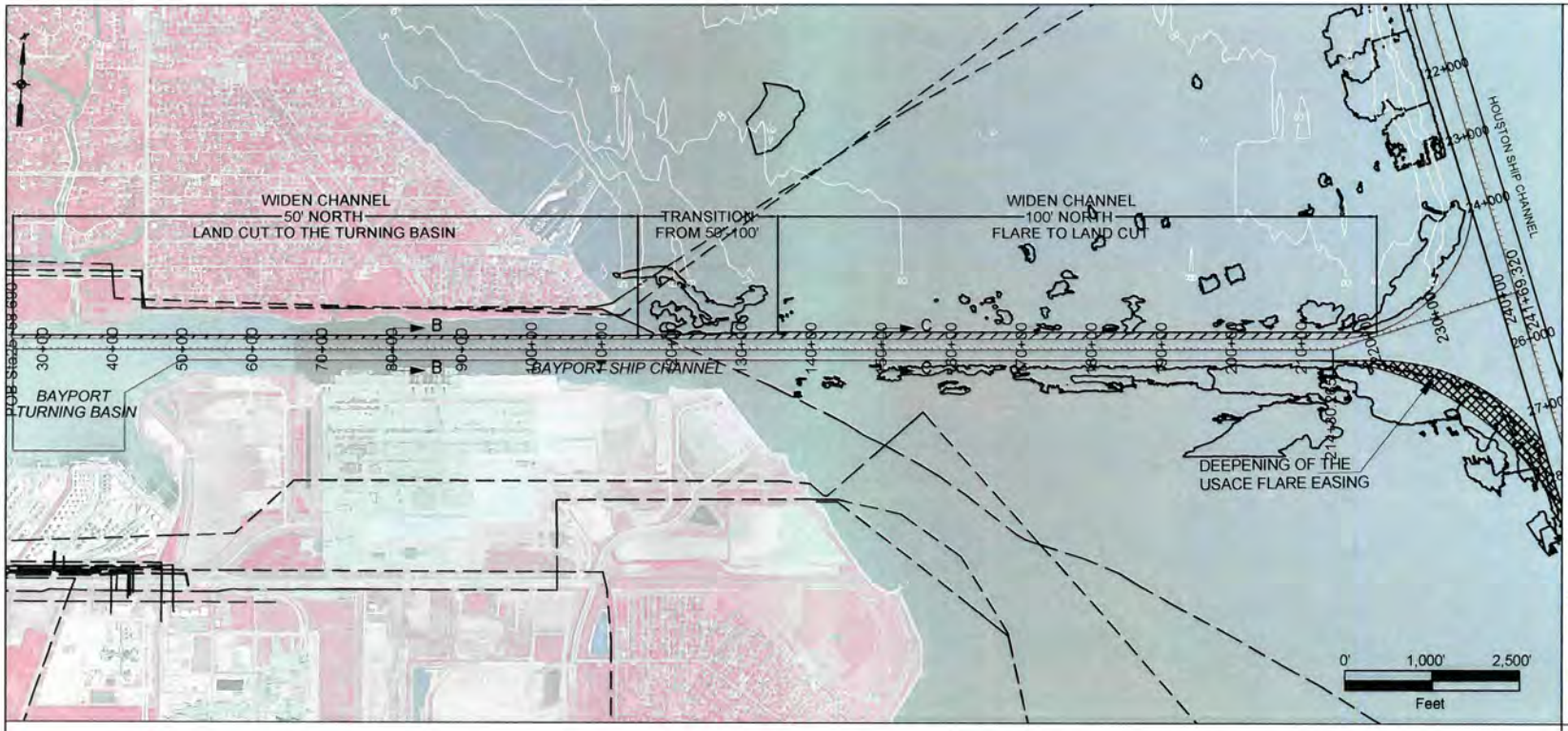
LEGEND

PREFERRED CHANNEL ALTERNATIVE

CONTOURS (FT MLT), JAN. 25-31, 2011

PIPELINES

File Name: BP2011-Permit.dwg



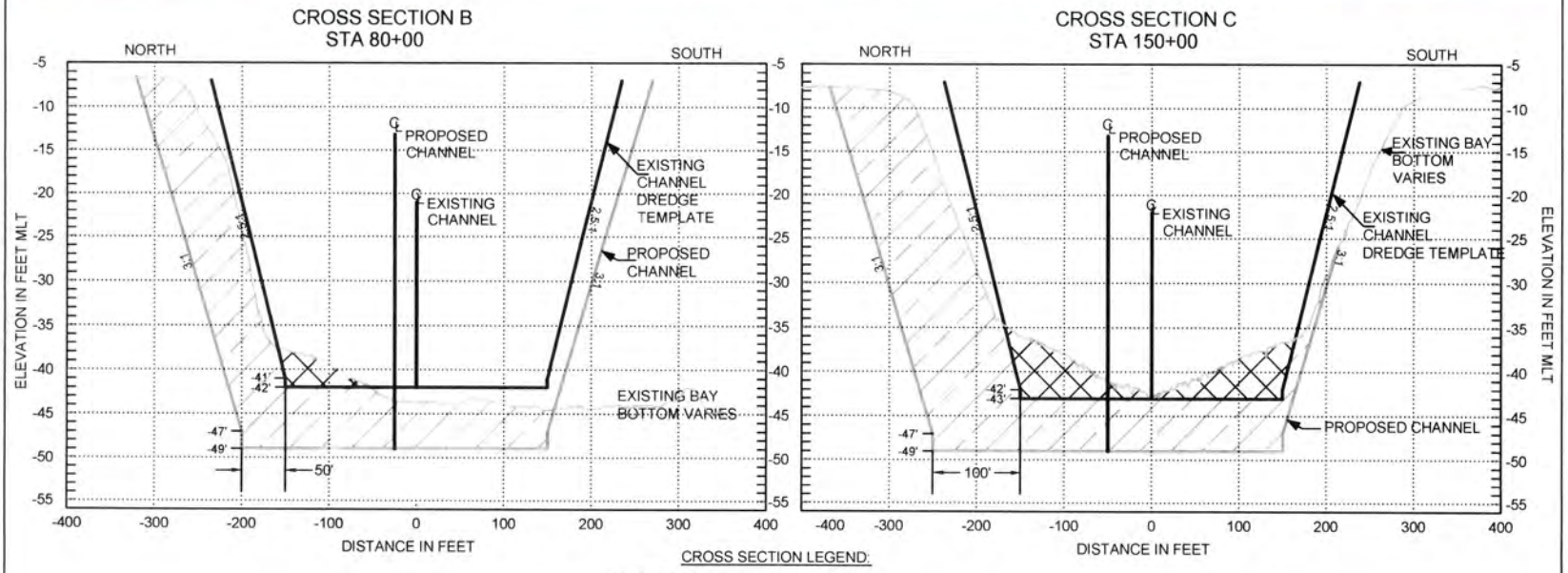
SWG-2011-01183

Bayport Ship Channel Improvements
Individual Permit Application

Preferred Channel Alternative
& Cross Sections - Full Extent

State: Texas
Date: February 2012

County: Chambers and Harris
Application By: Port of Houston Authority
Sheet: 4 of 6

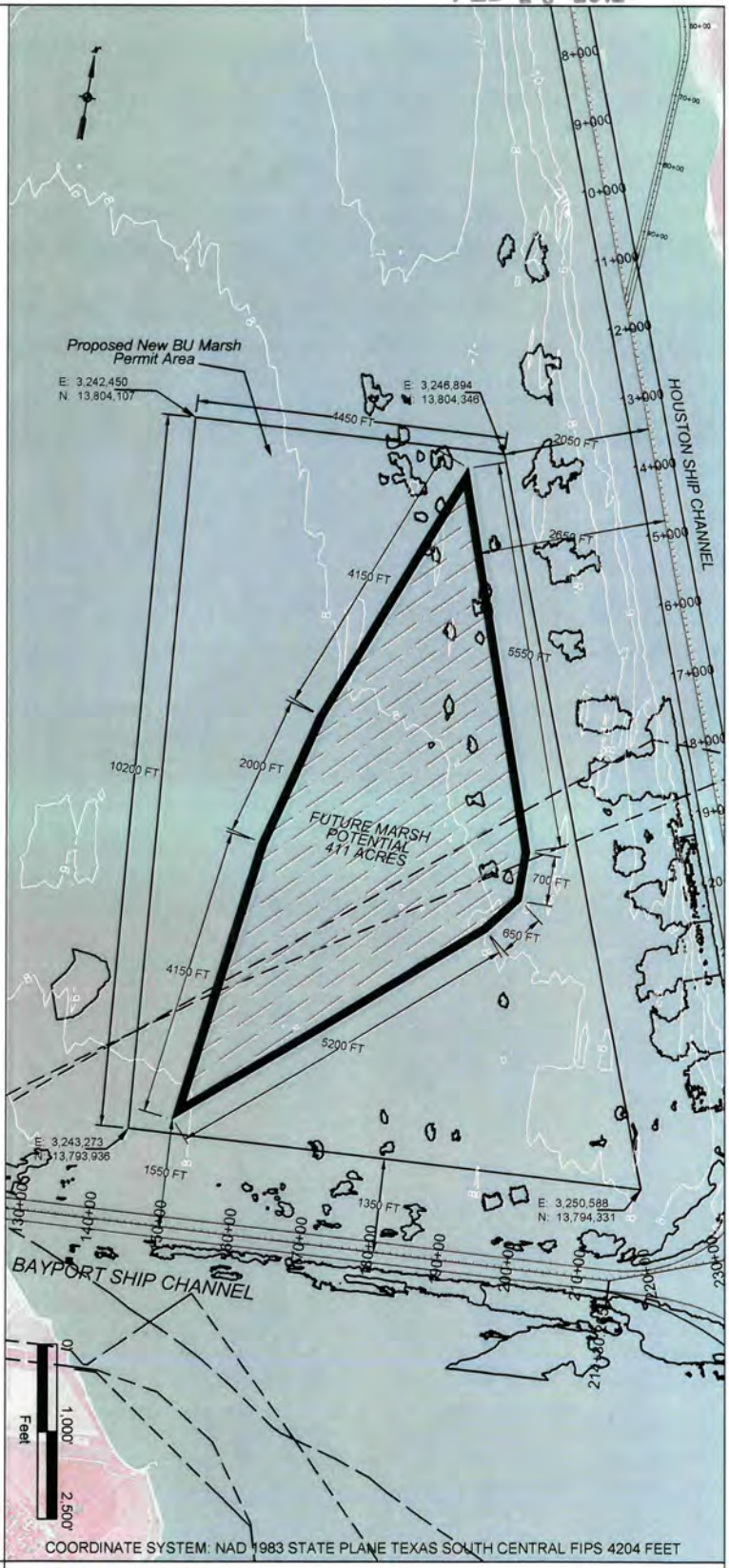


LEGEND

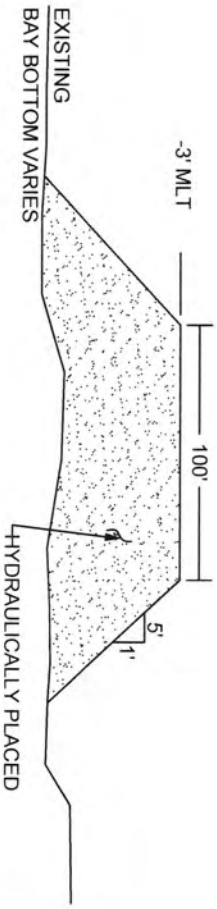
- OYSTERS
- PREFERRED CHANNEL ALTERNATIVE
- DEEPENING OF THE USACE FLARE EASING
- CONTOURS (FT MLT), JAN. 25-31, 2011
- PIPELINES

NOTE:
NO OYSTER IMPACTS WOULD BE CAUSED BY THIS DEEPENING.

File Name: BP2011-Permit.dwg



TYPICAL CROSS-SECTION OF INITIAL SUBMERGED PERIMETER LEVEE (NTS)



FUTURE MARSH CELL WITH INITIALLY SUBMERGED PERIMETER LEVEE	
POTENTIAL MARSH AREA:	411 ACRES
LENGTH OF BERM:	22,400 FEET
TOTAL FOOTPRINT OF BERM:	77 ACRES
MAXIMUM ESTIMATED MATERIAL REQUIRED TO BUILD BERM:	3.9 MCY

LEGEND

- OYSTERS
- MARSH AREA
- 5 CONTOURS (FT MLT), JAN. 25-31, 2011
- PIPELINES

TEXAS SOUTH CENTRAL FIPS 4204 FEET

SWG-2011-01183

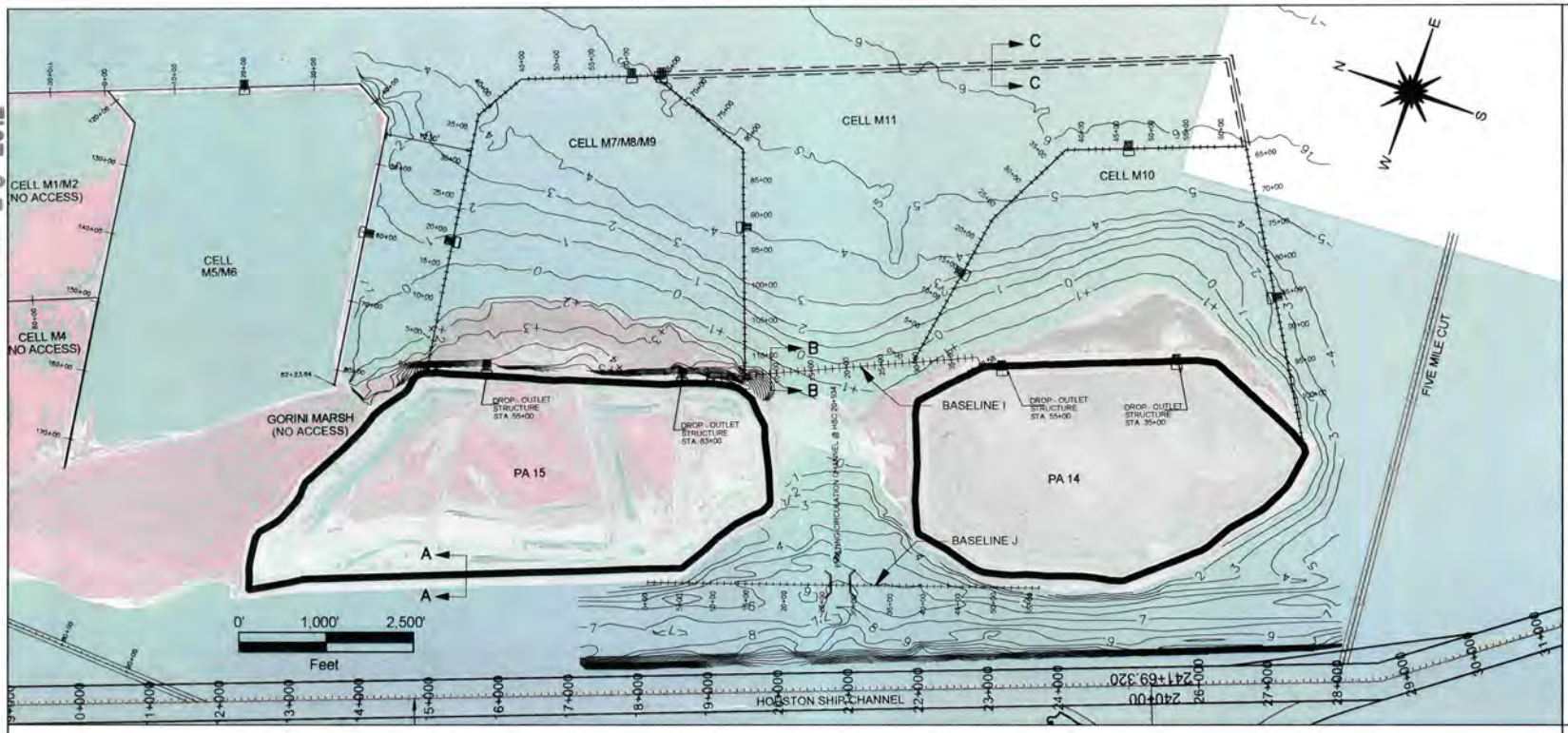
Bayport Ship Channel Improvements
Individual Permit Application

New Beneficial Use Marsh & Cross Section

County: Chambers and Harris
Application By: Port of Houston Authority
Sheet: 5 of 6

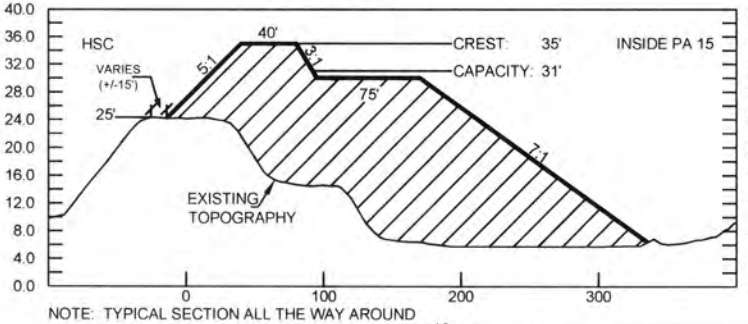
State: Texas
Date: February 2012

File Name: BP2011-Permit.dwg



TYPICAL SECTION - A

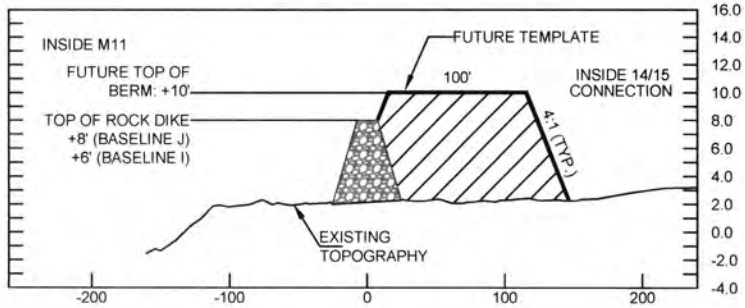
PA 14/15 LEVEE
RAISING, +35' MLT



NOTE: TYPICAL SECTION ALL THE WAY AROUND EXISTING LEVEES AT PA 14 & 15

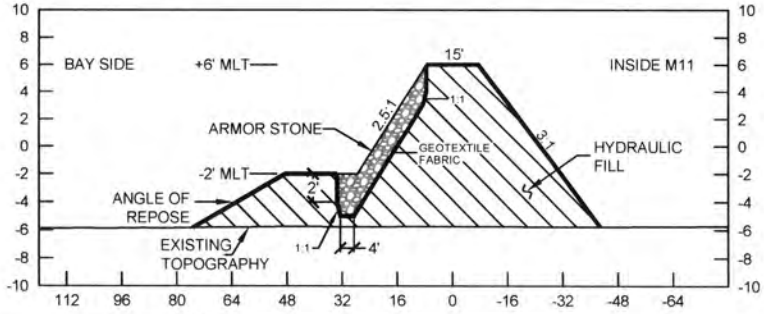
TYPICAL SECTION - B

PA 14/15 CONNECTION BERM
INITIAL FILL, +10' MLT



CROSS SECTION LEGEND:

- EXISTING GROUND
- LEVEE TEMPLATE
- LEVEE FILL



TYPICAL SECTION - C

M11 LEVEE
FINAL TEMPLATE

NOTES:

1. SURVEY DATA IS A COMBINATION OF LIDAR DATA AND 2009 HYDROGRAPHIC SURVEY DATA BY HYDROGRAPHIC CONSULTANTS.
2. LIDAR SURVEY DATA OBTAINED BY WILSON & COMPANY MAY 5TH, 2011.
3. LIDAR SURVEY DATA REFERENCED TO NAD 83, TEXAS STATE PLANE, SOUTH CENTRAL ZONE 4204.
4. LIDAR SURVEY DATA VERTICALLY PROJECTED TO NAVD 88 AND CONVERTED TO MLT. MLT IS 1.4' BELOW NAVD 88 IN THIS REACH BASED ON USACE PUBLICATIONS AND NOAA TIDAL DATUMS PUBLISHED FOR MORGANS POINT, TEXAS.
5. ROCK DIKE OF BASELINE J CURRENTLY UNDER CONSTRUCTION. NO EARTHEN LEVEES BUILT TO-DATE.

LEGEND:

- CURRENTLY UNDER CONSTRUCTION
- INITIAL CONSTRUCTION OF PREVIOUSLY PERMITTED LEVEE
- EXISTING LEVEE RAISING
- CONTOURS (FT MLT), AUGUST 2009

Bayport Ship Channel Improvements
Individual Permit Application

PA 14/15 Levee Raising, PA14/15 Connection and and M11 Cross-Sections

SWG-2011-01183

County: Chambers and Harris

State: Texas

Application By: Port of Houston Authority

Date: January 2012

Sheet: 6 of 6

File Name: BP2011-Permit.dwg