BOLIVAR ROAD SITE PLAN

SCALE:

HOUSTON SHIP CHANNEL GATE COMPLEX

SECTOR GATE FOR RECREATIONAL VESSELS (TYP.)

SHALLOW WATER ENVIRONMENTAL GATES (TYP.)

COMBI-WALL (TYP.)
**COMBI-WALL PLAN EL. 21.5**

- **36" BATTER PILE**, TYP.
- **42" HDPE JACKET**, TYP.
- **66" CYLINDER PILE**
- **18" CLOSURE PILE, TYP.**
- **PCP - PRECAST CONCRETE CAP**
- **CIP - CAST IN PLACE**
- **PARAPET WALL**

**COMBI-WALL PLAN EL. 10.5**

- **36" BATTER PILE**
- **42" HDPE JACKET**, TYP.
- **66" CYLINDER PILE**
- **18" CLOSURE PILE**
- **PARAPET WALL**
- **PCP - PRECAST CONCRETE CAP**
- **CIP - CAST IN PLACE**

**Limits of Riprap**
- EL 21.5
- EL 10.5
FLOOD SIDE
LAND SIDE

DESCRIPTION

1
D
2
C
4
A
8
B

MARK
APPR.
DATE
MARK
APPR.
DATE

NEW ORLEANS DISTRICT
N O R L E A N S , L O U I S I A N A

CPB
S O L I C I T A T I O N  N O .:
F I L E  N A M E :
D W N  B Y :
C K D  B Y :
D E S I G N E D  B Y :
D A T E :
F I L E  N U M B E R :
S I Z E :
S U B M I T T E D  B Y :
P L O T  S C A L E :
P L O T  D A T E :
C O N T R A C T  N O .:
A N S I D
XX X :1
M A R . 2 0 2 0
H -X -X X X X
(N O T  F O R  C O N S T R U C T I O N )
R E S T O R A T I O N  F E A S I B I L T Y  S T U D Y
C O A S T A L  T E X A S  P R O T E C T I O N  A N D

SCALE:
PLAN VIEW

NOTES: 1. PILES NOT SHOWN FOR CLARITY

FLOODSIDE ELEVATION

SCALE:
FLOOD SIDE

SECTOR GATE PLAN

SCALE:

SECTOR GATE PILE LAYOUT

SCALE:

RECREATIONAL SECTOR GATE, SILL EL. -40.0

<table>
<thead>
<tr>
<th>STRUCTURE</th>
<th>TYPE</th>
<th>TOP</th>
<th>TIP</th>
<th>BATTER</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILL EL. -40.0</td>
<td>PZ-22</td>
<td>EL -47.0</td>
<td>EL -79.0</td>
<td>VERTICAL</td>
<td>55.0'</td>
</tr>
<tr>
<td>24&quot; Ø PIPE</td>
<td>EL -47.0</td>
<td>EL -118.0</td>
<td>1H:3V</td>
<td>84.0'</td>
<td></td>
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</tbody>
</table>

ELEVATION - CHANNEL TRUSS

NOTE: FENDER RACK NOT SHOWN FOR CLARITY

FLOOD SIDE

PLAN - LOWER HORIZONTAL FRAME

SCALE:
GATE CLOSED
SCALE 1" = 25'

GATE OPEN
SCALE 1" = 25'
DRY DOCK AND GATE SILL PILE FOUNDATION

SCALE: 1" = 30'

NEW ORLEANS DISTRICT

U.S. ARMY CORPS OF ENGINEERS

NEW ORLEANS, LOUISIANA

U.S. ARMY CORPS OF ENGINEERS

DESCRIPTION

1.4579° (Typ.)

DATE

APPROVED

CONTRACT NO.

FILE NUMBER:

SIZE:

SUBMITTED BY:

DATE:

PLOT SCALE:

PLOT DATE:

FILE NAME:

SOIL PIT:

TYP.

FLOOD SIDE

PROTECTED SIDE

48" DIA. PILE (1" WALL), TYP.

ID

Sheet

DESIGNED BY:

DATE:

DRAFT ENGINEERING APPENDIX

RESTORATION FEASIBILITY STUDY

COASTAL TEXAS PROTECTION AND

DRY DOCK AND GATE SILL PILE FOUNDATION

(Not for Construction)
SECTION A-A = AUTH. CHANNEL STA. 15+000

NOTES:
1. EXISTING ENTRANCE CHANNEL WILL BECOME A ONE-WAY OUTBOUND CHANNEL WITH A SECTOR GATE OPENING OF 650'.
2. DREDGING DEPTHS ARE MLLW.

OVERDEPTH 1' ALLOWABLE

AUTH. WIDTH

EXISTING CENTERLINE
NEW OUTBOUND CHANNEL

CENTERLINE
NEW INBOUND CHANNEL

NOTES:
1. TOP ELEV. OF SCOUR PAD AT 1' BELOW ALLOWABLE OVERDEPTH ELEV. OF -62
2. TOP ELEV. OF SCOUR PAD AT 1' BELOW ALLOWABLE OVERDEPTH ELEV. OF -62

ELEV. -61 MLLW

62' WIDE X 15' THICK GATE SILL

ELEV. -63 TOP OF SCOUR PAD
5' SCOUR PAD

LIMITS OF SCOUR PAD

ELEV. -60 NAVD 88 = ELEV. -61 MLLW

TOP OF GATE SILL

---

SECTION B-B

SECTION B-H

GATE CROSSING CENTERLINE

NOTES:
1. TOP ELEV. OF SCOUR PAD AT 1' ALLOWABLE OVERDEPTH ELEV. OF 42

46' FED. AUTH.

-48 REQ'D DEPTH

OVERDEPTH 1' ALLOWABLE

-60

-50

-40

-30

-63 TOP OF SCOUR PAD

LIMITS OF SCOUR PAD

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COASTAL TEXAS PROTECTION AND RESTORATION STUDY

ENTRANCE CHANNEL

SECTIONS

PLATE 5