FEASIBILITY STUDY
SABINE TO GALVESTON
PLAN AND CROSS SECTION
MITIGATION AREA 28 AND 29

TYPICAL MARSH RESTORATION SECTION

LEGEND
- LEVEE
- FLOODWALL
- AREA BOUNDARY LIMITS
- NEW HYDRAULIC PLACED DIKE
- MARSH RESTORATION

U.S. Army Corps of Engineers
Galveston District

DATE: [Not specified]
REV.: [Not specified]
SUBMITTED BY: [Not specified]
APPROVED BY: [Not specified]
APPROVAL RECOMMENDED BY: [Not specified]
SCALE: [Not specified]
DRAWN BY: [Not specified]
DESIGNED BY: [Not specified]
CHECKED BY: [Not specified]

FILE: [Not specified]
MODEL NAME: [Not specified]
DATE: 09/21/2016
TIME: 09:53:42 AM

LOCATION: [Not specified]
Pipe Diameter
- 2.38" - 10.75"
- 12.75" - 22"
- 24" - 42"

Gate
Floodwall
Levee
Work Areas

Image: 2015 TNRIS

ORANGE COUNTY
CSRM
24 June 2016
Work Area
Pipe Crossings
Pipe Diameter

- 2.38" - 10.75"
- 12.75" - 22"
- 24" - 42"

Gate
Floodwall
Levee
Work Areas

Image: 2015 TNRIS

ORANGE COUNTY
CSRM
24 June 2016
Work Area
Pipe Crossings

C-71
Pipe Diameter

- 2.38" - 10.75"
- 12.75" - 22"
- 24" - 42"

Gate, Floodwall, Levee, Work Areas
Pipe Diameter

- 4" - 10.75"
- 12" - 20"
- 22" - 36"

Work Area
Levee
Floodwall

PORT ARTHUR AND VICINITY
CSRM

6 July 2016

Work Area Pipe Crossings
Pipe Diameter

- 4" - 10.75"
- 12" - 20"
- 22" - 36"

Work Area

Levee

Floodwall

PORT ARTHUR
AND VICINITY
CSRM
6 July 2016

Work Area
Pipe Crossings
Pipe Diameter
- 4" - 10.75"
- 12" - 20"
- 22" - 36"

Work Area
Levee
Floodwall

PORT ARTHUR
AND VICINITY
CSRM

6 July 2016
Work Area Pipe Crossings
Pipe Diameter

- 4” - 10.75”
- 12” - 20”
- 22” - 36”

Image: 2015 TNRIS

PORT ARTHUR AND VICINITY CSRM
6 July 2016
Work Area Pipe Crossings

C-83
Pipe Diameter

- 4" - 10.75" Gate
- 12" - 20" Levee
- 24" - 40" Floodwall

FREEPORT AND VICINITY
CSRM
6 July 2016
Work Area
Pipe Crossings
TYPICAL NEW LEVEE

TYPICAL LEVEE RAISE - ALT 1

TYPICAL LEVEE RAISE - ALT 2

ASSUMPTIONS:

1. TYPICAL NEW LEVEE - MATERIAL QUANTITY INCLUDES 4 FT OF SETTLEMENT IN ADDITION TO SECTION SHOWN.
ASSUMPTIONS:
1. EXISTING GROUND AT EL 5.0
2. STRUCTURAL EXCAVATION TO BOTTOM OF FLOODWALL CONSTRUCTION
3. SIMILAR SOIL CONDITIONS EXIST IN ALL FLOODWALL LOCATIONS
4. 16" PRESTRESSED CONCRETE PILES, 3 PILES/EACH AT 5 FT SPACING
   FOR COST ESTIMATING PURPOSES, PIECES ARE 60 FT IN LENGTH.
5. SHEETPILE CUTOFF TIP ELEVATION OF -23 FT, FOR COST ESTIMATING PURPOSES.
6. FLOODWALL CONSTRUCTED TO THE 50 YEAR INTERMEDIATE RSLC SCENARIO
   ADAPTABLE TO 100 YEAR INT OR 50 YEAR HIGH RSLC SCENARIO.
7. ALL FLOODWALL SHOWN ON C-XX SHEETS SHALL BE SECTION 'A', UNLESS OTHERWISE
   NOTED AS SECTION 'B'.

TYPICAL FLOODWALL SECTION
TYPICAL FOR STICKUP HEIGHTS ABOVE 7 FT

ASSUMPTIONS:
1. EXISTING GROUND IS EARTHEN LEVEE OF EXISTING LEVEE SYSTEM
2. DEGRADE LEVEE TO PLACE FLOODWALL
3. FLOODWALL UTILIZED WHERE EARTHEN LEVEE RAISE IS NOT FEASIBLE
4. LEVEE ELEVATION VARIES.
I. CONSTRUCT NEW FLOODWALL (AS-01) ALONG CENTERLINE OF EXISTING FLOODWALL.

ASSUMPTIONS:

1. CONSTRUCT NEW FLOODWALL (AS-01) ALONG CENTERLINE OF EXISTING FLOODWALL.
TYPICAL FLOODWALL SECTION - AROUND DOW THUMB
*NEW RIVER NORTH REACH (STA 182+00 TO 260+00)*

**ASSUMPTIONS:**
1. CONSTRUCT NEW FLOODWALL (SHEET B-01) ALONG CENTERLINE OF EXISTING FLOODWALL.
2. EMBANKMENT REMOVAL DUE TO INSTABILITY OF EXISTING LEVELS.
3. STRUCTURAL EXCAVATION FOR REMOVAL OF EXISTING WALL AND PLACEMENT OF NEW FLOODWALL.
4. NEW FLOODWALL TO BE PLACED IN FRONT OF DOCK. ACTUAL FLOODWALL CONFIGURATION TO BE DETERMINED DURING FEED PHASE. ASSUMPTION FOR COST ESTIMATE IS FLOODWALL CONFIGURATION AS SHOWN.

TYPICAL FLOODWALL SECTION - TIDE GATE I-WALL

TYPICAL FLOODWALL SECTION - OLD RIVER SOUTH (BERTH 1, 2, 3 & 5)