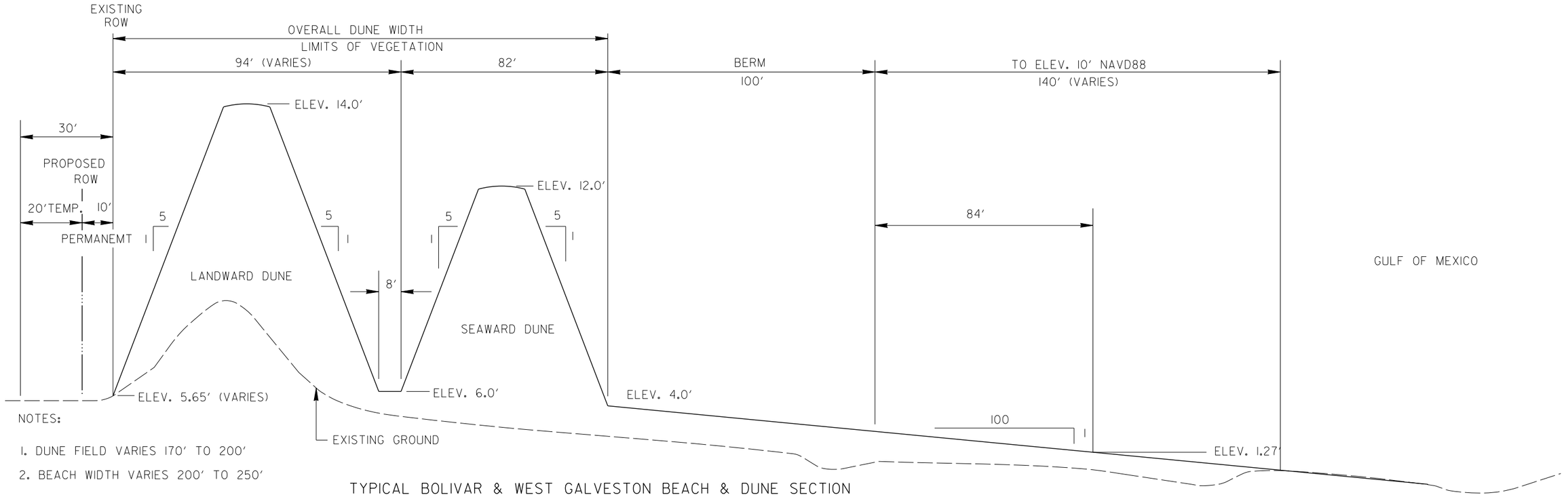


NOTES:

1. DUNE FIELD VARIES 170′ TO 200′
2. BEACH WIDTH VARIES 200′ TO 250′

TYPICAL BOLIVAR & WEST GALVESTON BEACH & DUNE SECTION

SCALE: NTS

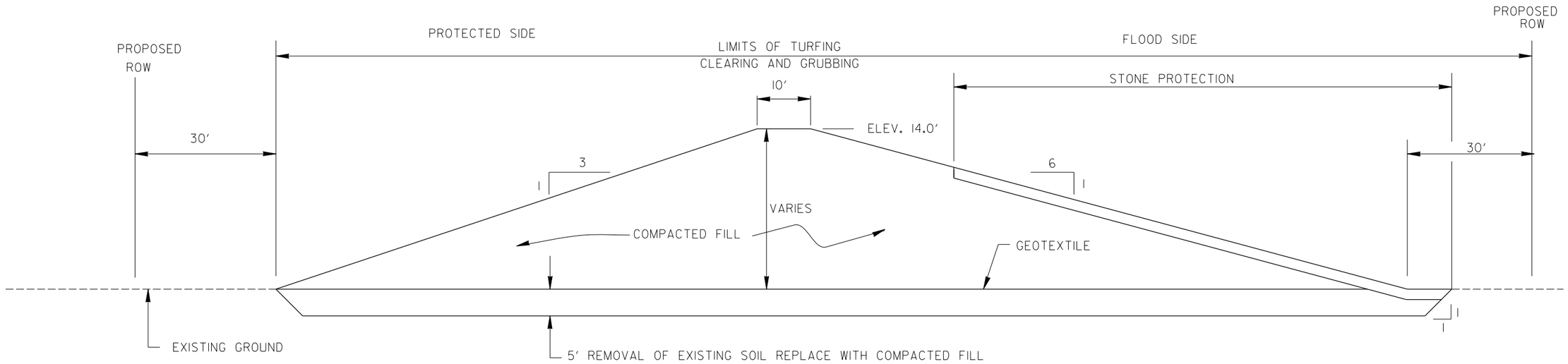
COASTAL TEXAS PROTECTION AND RESTORATION STUDY

TYPICAL BEACH & DUNE, SECTION

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

ENGINEERING APPENDIX
DATED: FEBURARY 2020

GENERAL 3000



TYPICAL BOLIVAR LEVEE SECTION

SCALE: NTS

COASTAL TEXAS PROTECTION AND RESTORATION STUDY

TYPICAL BOLIVAR LEVEE SECTION

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DATED: FEBURARY 2020

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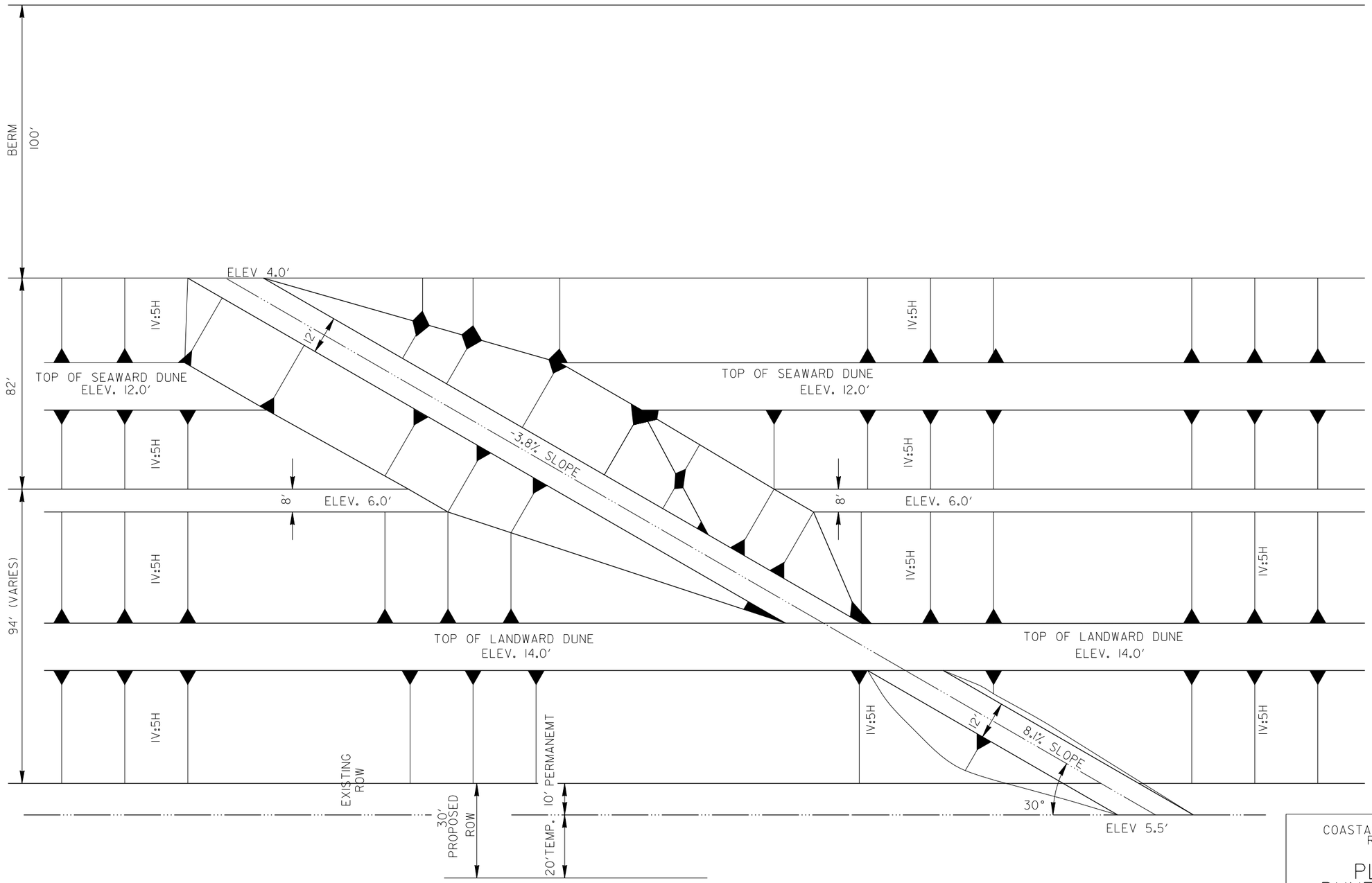
PLATE 2

GULF OF MEXICO



COASTAL TEXAS PROTECTION AND RESTORATION STUDY

PLAN TYPICAL DUNE ACCESS RAMP

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

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PLATE 3

CADD

PROPOSED NEW ANCHORAGE AREA A
(1.2 SQ. MILES)

AREA C

SHALLOW ANCHORAGE
AREA B

AREA A

CENTERLINE INBOUND CHANNEL

650'

1100'

NEW CHANNEL TOE

A

800'

NEW CHANNEL TOE

BOLIVAR ROADS CHANNEL

B

GALVESTON ENTRANCE CHANNEL

INNER BAR CHANNEL

1000'

CENTERLINE OUTBOUND CHANNEL
(SAME AS CURRENT CHANNEL)

800'

800'

800'

PROPOSED NEW ANCHORAGE AREA D

(1.2 SQ. MILES)

GALVESTON HARBOR CHANNEL

PLAN

0 1000 2000 3000

SCALE IN FEET

COASTAL TEXAS

PLAN ENTRANCE CHANNEL

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

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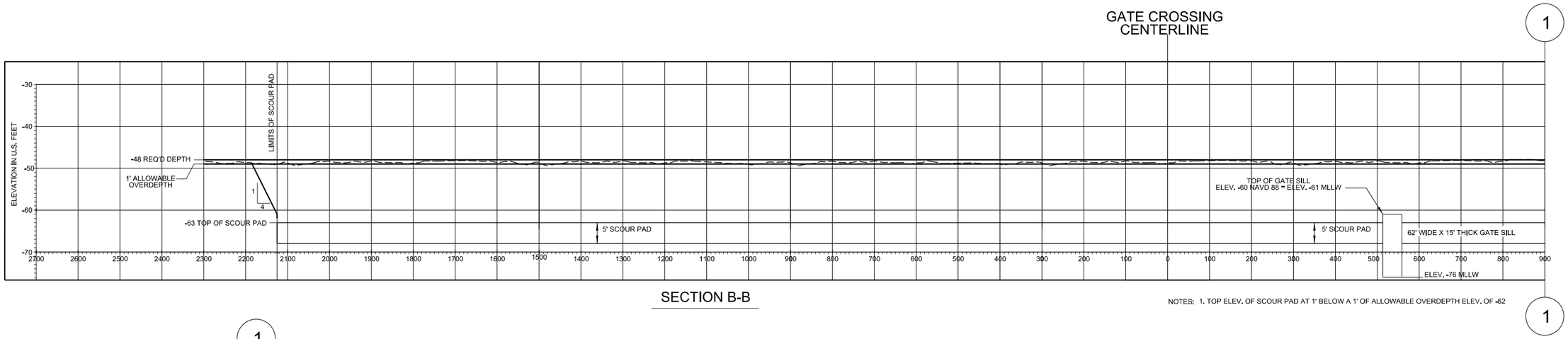
DATED: FEBRUARY 2020

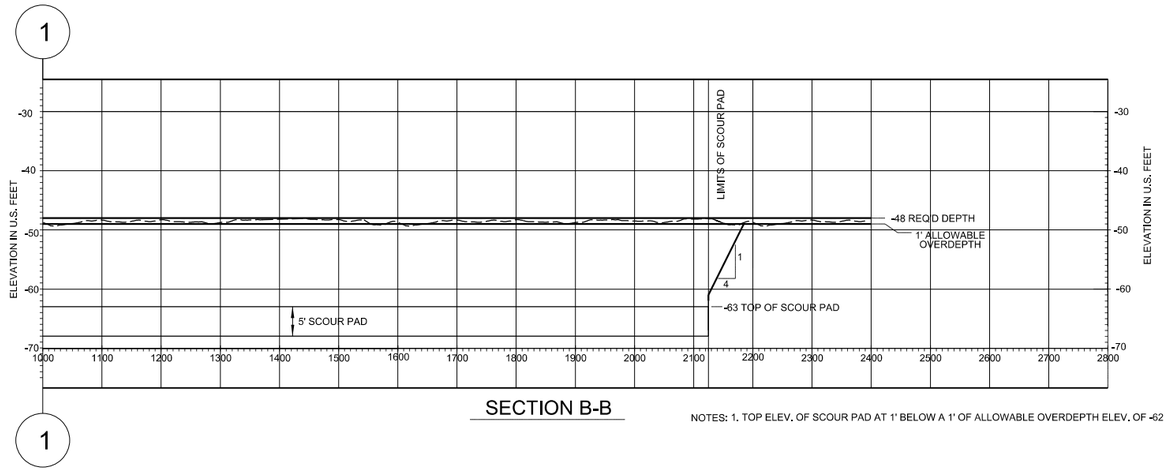
FILE NO. X

PLATE 4



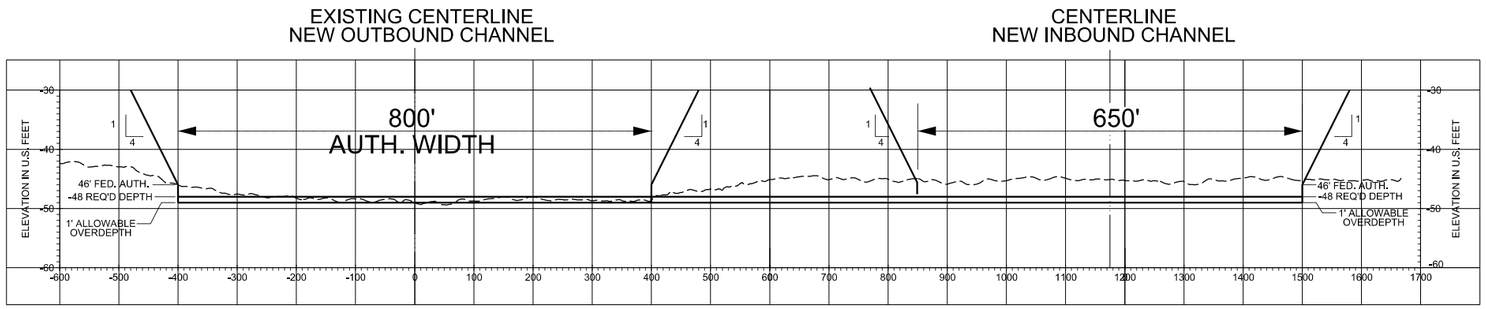
SECTION B-B

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



SECTION B-B

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



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.

COASTAL TEXAS PROTECTION AND RESTORATION STUDY

ENTRANCE CHANNEL SECTIONS

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

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PLATE 5