

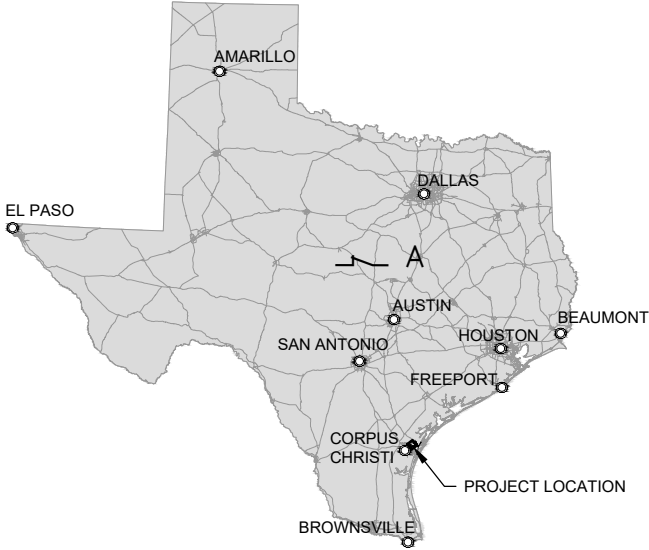
EL RINCON BREAKWATERS PROJECT

DIRECTIONS:

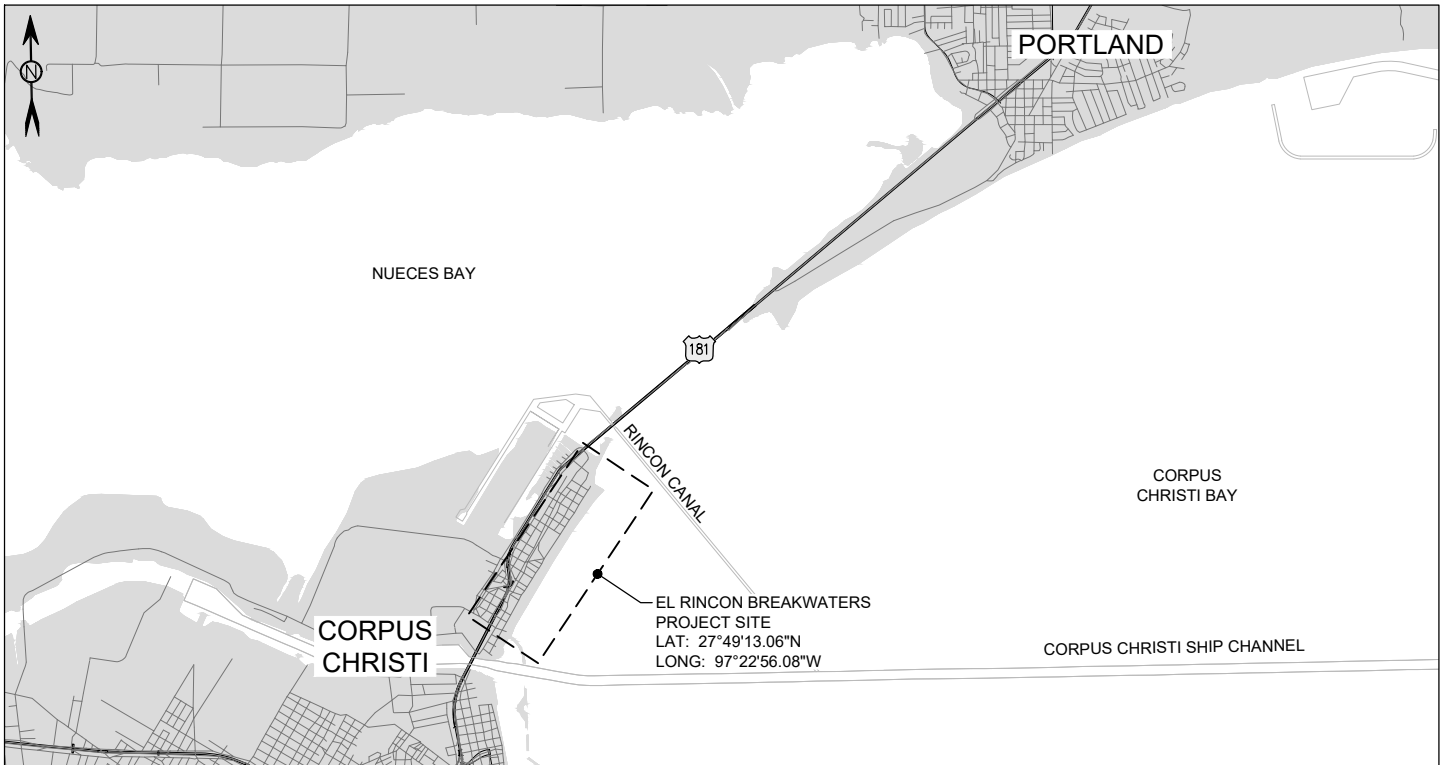
THE PROJECT SITE CAN BE ACCESSED VIA CORPUS CHRISTI BAY TO THE OFFSHORE BREAKWATER AREA OR VIA HIGHWAY 181, EXITING WEST CAUSEWAY BLD TO BURLESON ST TO ACCESS THE DMPA HARVESTING AREA.

NATURE OF ACTIVITY:

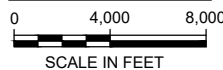
THE PURPOSE OF THIS PROJECT IS TO PROVIDE OFFSHORE PROTECTION TO THE NORTH BEACH SHORELINE LOCATED IN CORPUS CHRISTI, TX BY REDUCING ONSHORE WAVE ENERGY, INCREASING SEDIMENT STABILIZATION, AND IMPROVING AQUATIC HABITAT CONDITIONS FOR MARINE LIFE, COASTAL MARSH AND SUBMERGED AQUATIC RESOURCES.



SHEET INDEX	
SHEET NO.	TITLE
1	COVER SHEET
2	EXISTING SITE PLAN
3	PROPOSED SITE PLAN 1
4	PROPOSED SITE PLAN 2
5	SECTIONS 1
6	SECTIONS 2
7	SECTIONS 3
8	SECTIONS 4
9	SECTIONS 5
10	SECTIONS 6
11	BENEFICIAL USE HARVEST SITE PLAN



LOCATION MAP



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 1 OF 11



802 North Carancahua
Suite 300
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SITE ADDRESS:
27° 49' 13.06" N
97° 22' 56.08" W

VERIFY SCALE

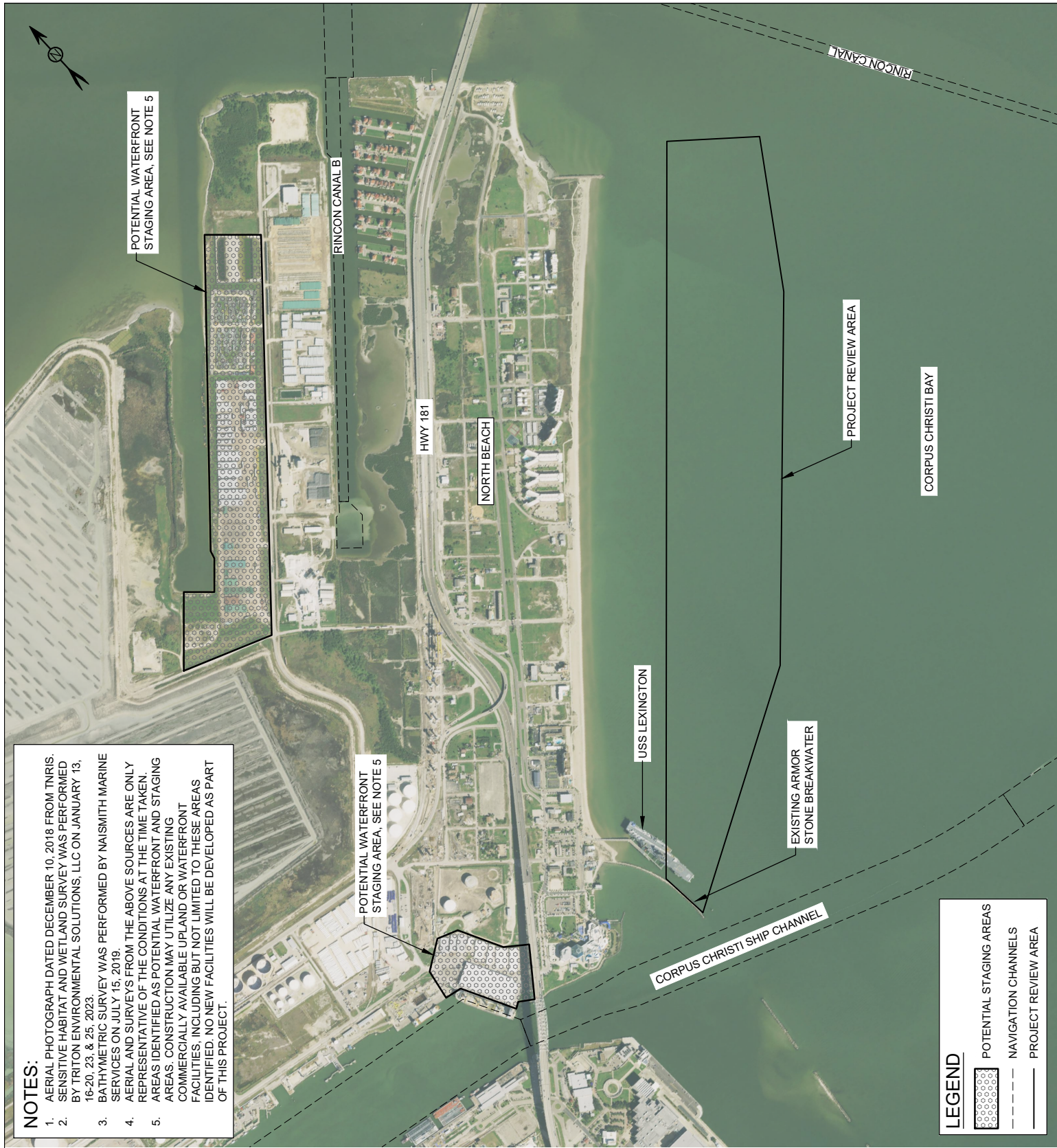
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APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM
IN: CORPUS CHRISTI, TX
ADJACENT: CORPUS CHRISTI BAY
COUNTY: NUECES
STATE: TEXAS
VERTICAL DATUM: NAVD88
HORIZ. DATUM: TSPS NAD83-FT

EL RINCON
BREAKWATERS PROJECT




COVER SHEET



NOTES:

1. AERIAL PHOTOGRAPH DATED DECEMBER 10, 2018 FROM TNIRIS.
2. SENSITIVE HABITAT AND WETLAND SURVEY WAS PERFORMED BY TRITON ENVIRONMENTAL SOLUTIONS, LLC ON JANUARY 13, 16-20, 23, & 25, 2023.
3. BATHYMETRIC SURVEY WAS PERFORMED BY NAISMITH MARINE SERVICES ON JULY 15, 2019.
4. AERIAL AND SURVEYS FROM THE ABOVE SOURCES ARE ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.
5. AREAS IDENTIFIED AS POTENTIAL WATERFRONT AND STAGING AREAS. CONSTRUCTION MAY UTILIZE ANY EXISTING COMMERCIALY AVAILABLE UPLAND OR WATERFRONT FACILITIES, INCLUDING BUT NOT LIMITED TO THESE AREAS IDENTIFIED. NO NEW FACILITIES WILL BE DEVELOPED AS PART OF THIS PROJECT.

LEGEND

-  POTENTIAL STAGING AREAS
-  NAVIGATION CHANNELS
-  PROJECT REVIEW AREA

EXISTING SITE PLAN



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 2 OF 11



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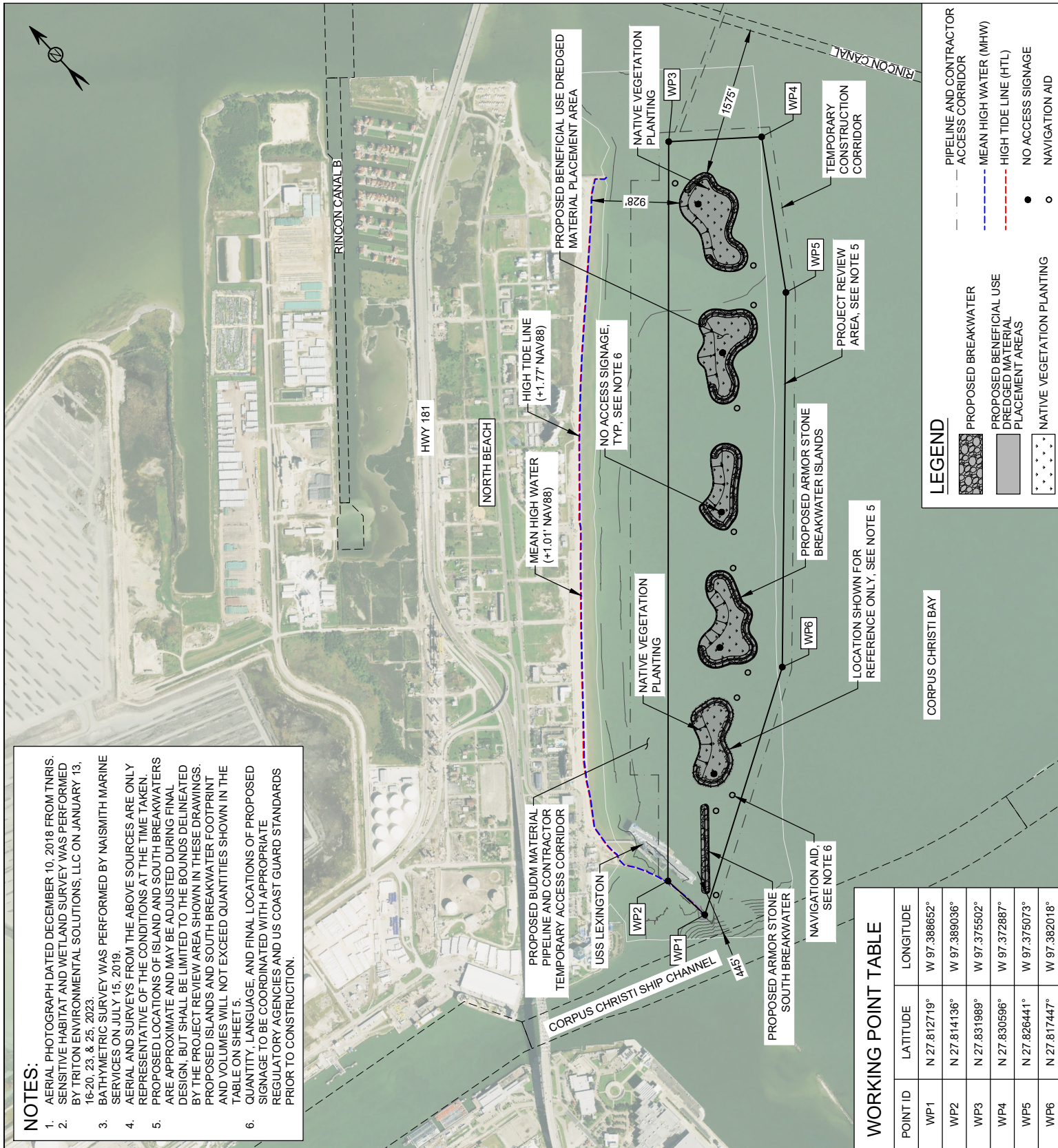
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**EL RINCON
BREAKWATERS PROJECT**

EXISTING SITE PLAN



NOTES:

1. AERIAL PHOTOGRAPH DATED DECEMBER 10, 2018 FROM TNRIS. SENSITIVE HABITAT AND WETLAND SURVEY WAS PERFORMED BY TRITON ENVIRONMENTAL SOLUTIONS, LLC ON JANUARY 13, 16-20, 23, & 25, 2023.
2. BATHYMETRIC SURVEY WAS PERFORMED BY NAIMSMITH MARINE SERVICES ON JULY 15, 2019.
3. AERIAL AND SURVEYS FROM THE ABOVE SOURCES ARE ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN. PROPOSED LOCATIONS OF ISLAND AND SOUTH BREAKWATERS ARE APPROXIMATE AND MAY BE ADJUSTED DURING FINAL DESIGN, BUT SHALL BE LIMITED TO THE BOUNDS DELINEATED BY THE PROJECT REVIEW AREA SHOWN IN THESE DRAWINGS. PROPOSED ISLANDS AND SOUTH BREAKWATER FOOTPRINT AND VOLUMES WILL NOT EXCEED QUANTITIES SHOWN IN THE TABLE ON SHEET 5.
4. QUANTITY, LANGUAGE, AND FINAL LOCATIONS OF PROPOSED SIGNAGE TO BE COORDINATED WITH APPROPRIATE REGULATORY AGENCIES AND US COAST GUARD STANDARDS PRIOR TO CONSTRUCTION.

PROPOSED SITE PLAN



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 3 OF 11



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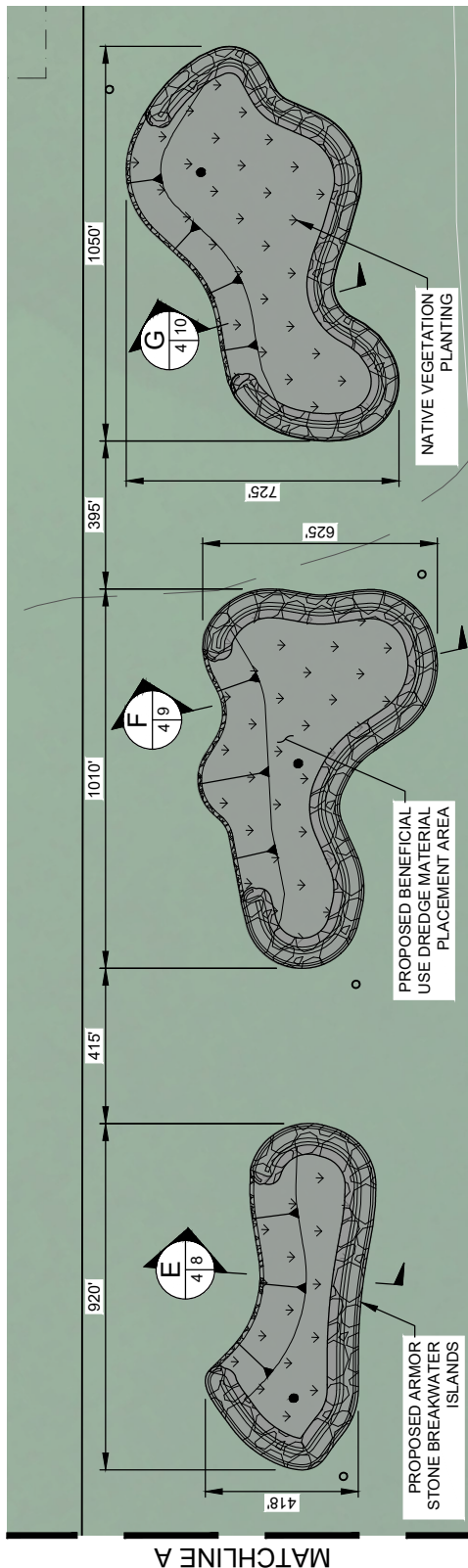
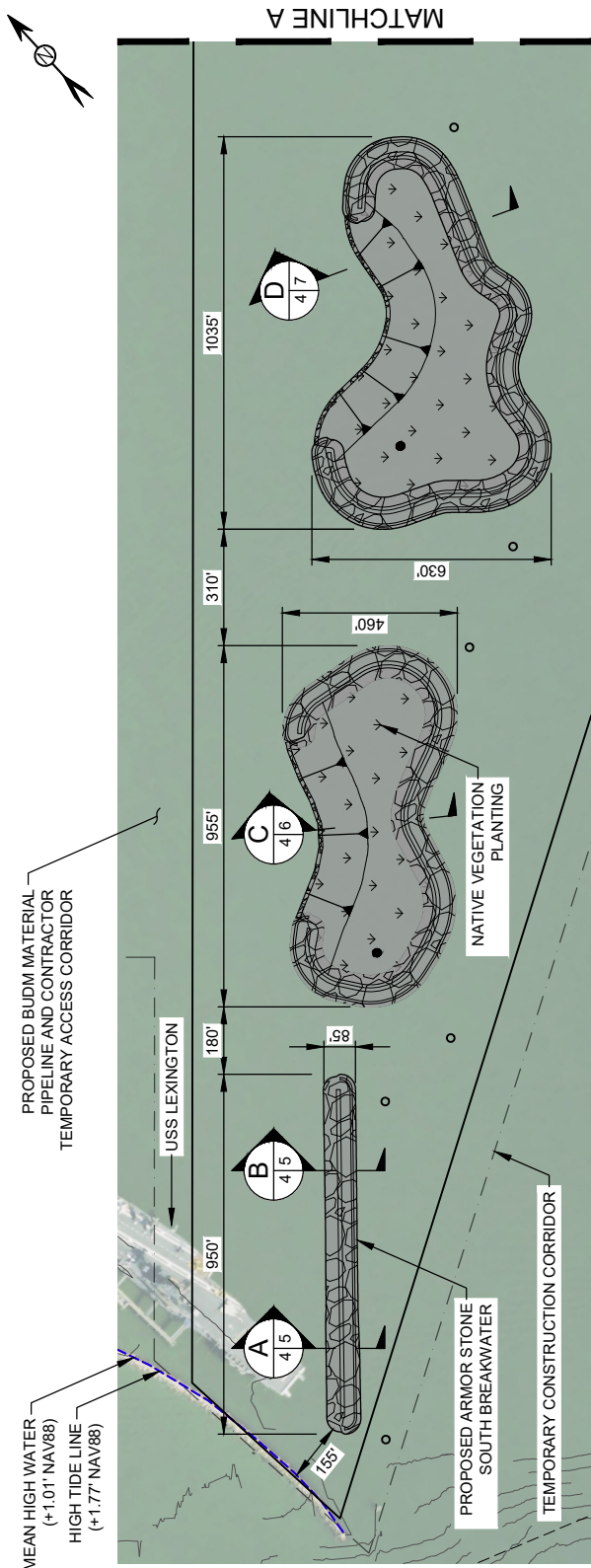
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**EL RINCON
BREAKWATERS PROJECT**

PROPOSED SITE PLAN 1



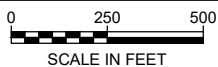
LEGEND

- PROPOSED BREAKWATER
- PROPOSED BENEFICIAL USE DREDGED MATERIAL PLACEMENT AREAS
- NATIVE VEGETATION PLANTING
- PIPELINE AND CONTRACTOR ACCESS CORRIDOR
- MEAN HIGH WATER (MHW)
- HIGH TIDE LINE (HTL)
- NO ACCESS SIGNAGE
- NAVIGATION AID

MAX PLACED MATERIAL (WATERWARD OF HTL)

MATERIAL	LENGTH	FOOTPRINT AREA (ACRES)	VOLUME (CY)
ISLAND AND SOUTH BREAKWATER STONE	10100	24	329,000
BENEFICIAL USE DREDGED MATERIAL (BUDM)	5000	57	1,062,000

PROPOSED SITE PLAN



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 4 OF 11



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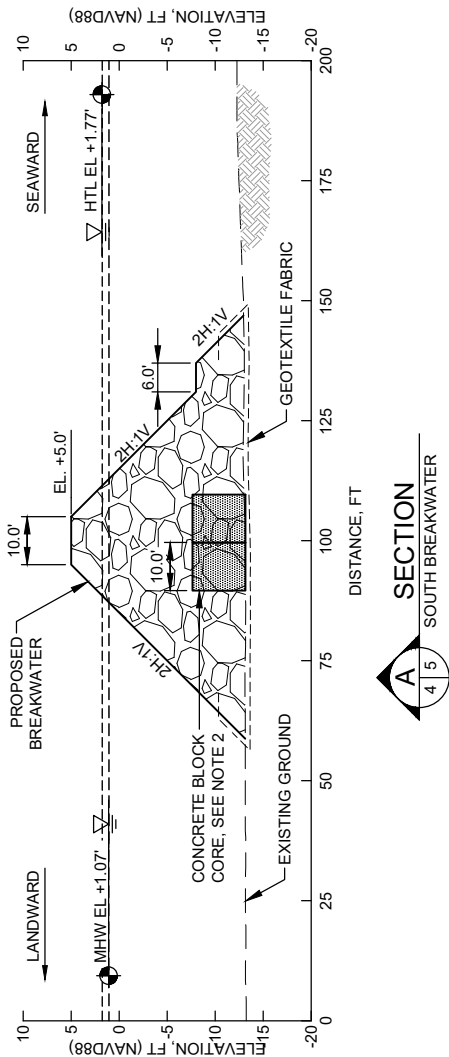
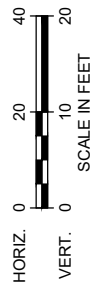
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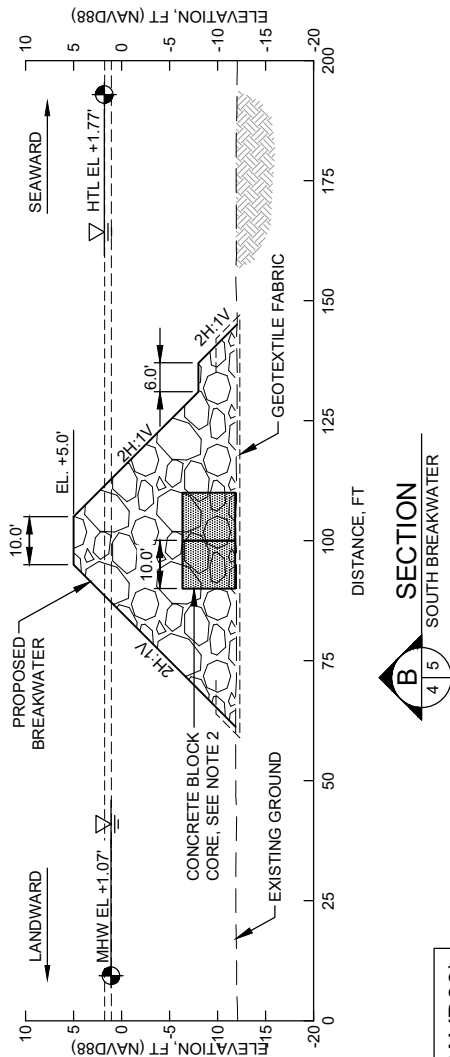
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EL RINCON BREAKWATERS PROJECT

PROPOSED SITE PLAN 2



A
4 | 5
SECTION
SOUTH BREAKWATER



B
4 | 5
SECTION
SOUTH BREAKWATER

TIDAL WATER LEVELS (NAVD88)	
HIGH TIDE LINE (HTL)	+1.77'
MEAN HIGH WATER (MHW)	+1.01'

NOTES:

1. ALTERNATIVE 1 AND 2 ISLAND BREAKWATER SECTION DEPENDS ON THE ORDER IN WHICH BENEFICIAL USE DREDGED MATERIAL (BUDM) BECOMES AVAILABLE FOR BREAKWATER ISLAND CREATION.
2. PROPOSED CONCRETE BLOCK CORE CONSTRUCTED OF TWO ROWS OF 6'X10'X12' CONCRETE BLOCKS.

PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 5 OF 11

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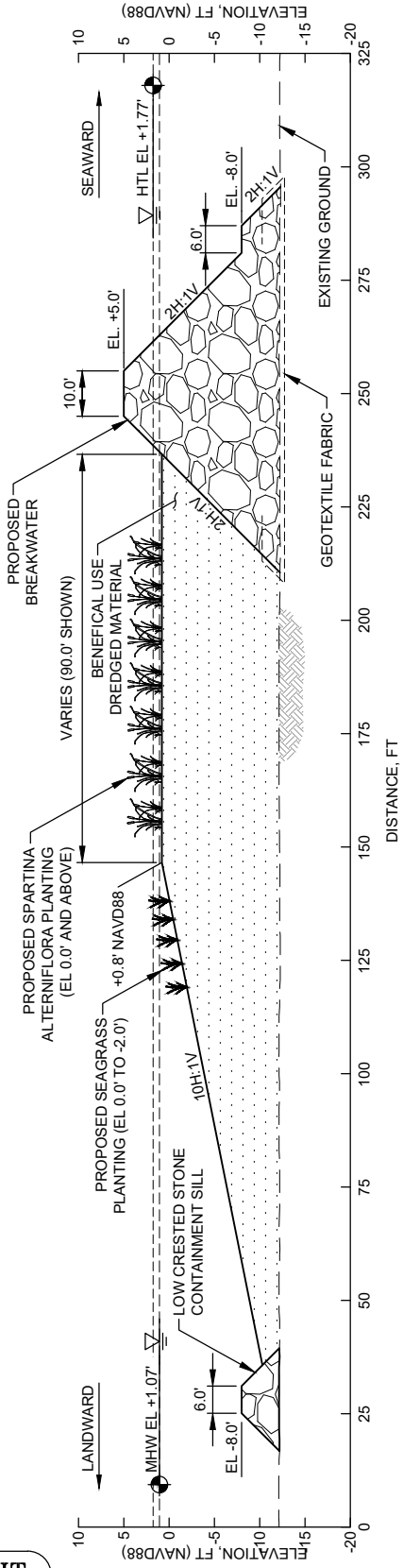
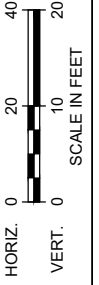
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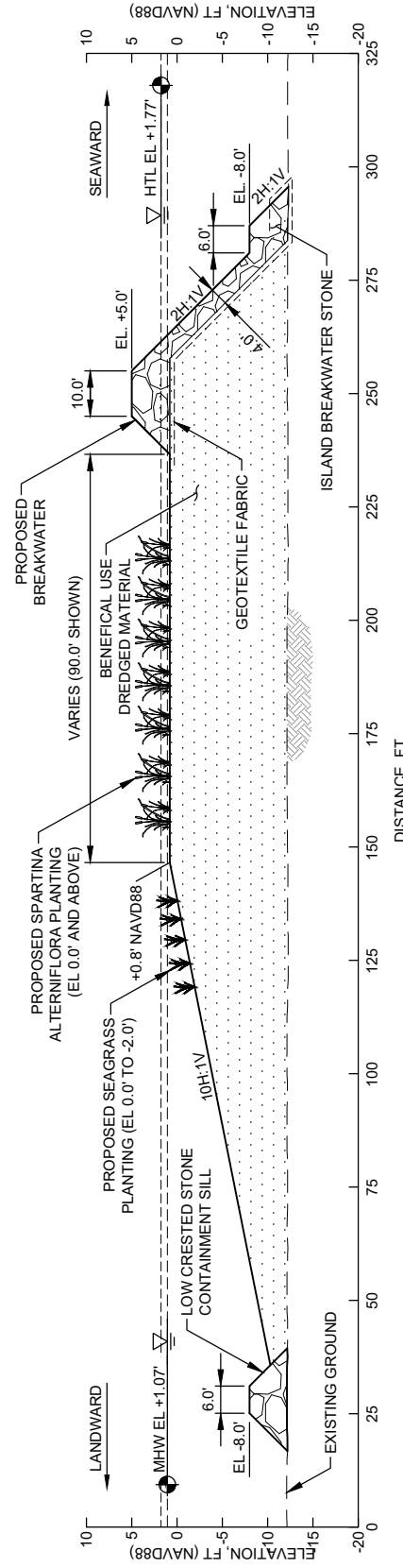
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EL RINCON
BREAKWATERS PROJECT

SECTIONS 1



SECTION C
ALTERNATIVE 1
ISLAND BREAKWATER



SECTION C
ALTERNATIVE 2
ISLAND BREAKWATER

TIDAL WATER LEVELS (NAVD88)	
HIGH TIDE LINE (HTL)	+1.77'
MEAN HIGH WATER (MHW)	+1.01'

NOTES:
1. ALTERNATIVE 1 AND 2 ISLAND BREAKWATER SECTION DEPENDS ON THE ORDER IN WHICH BENEFICIAL USE DREDGED MATERIAL (BUDM) BECOMES AVAILABLE FOR BREAKWATER ISLAND CREATION.

PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

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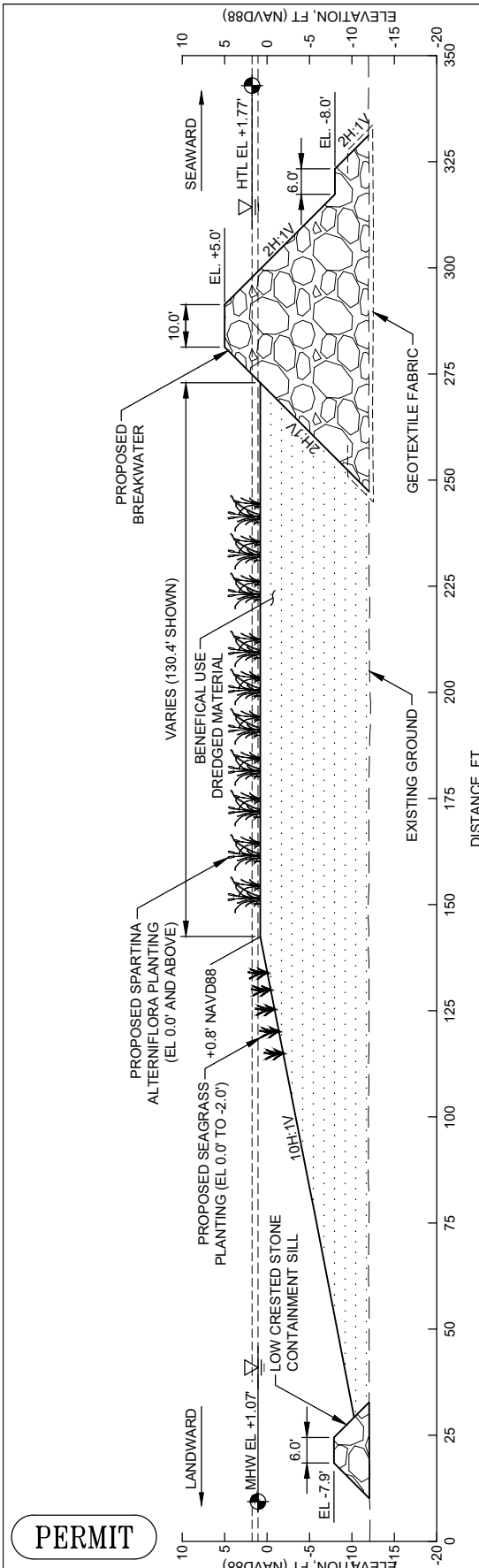
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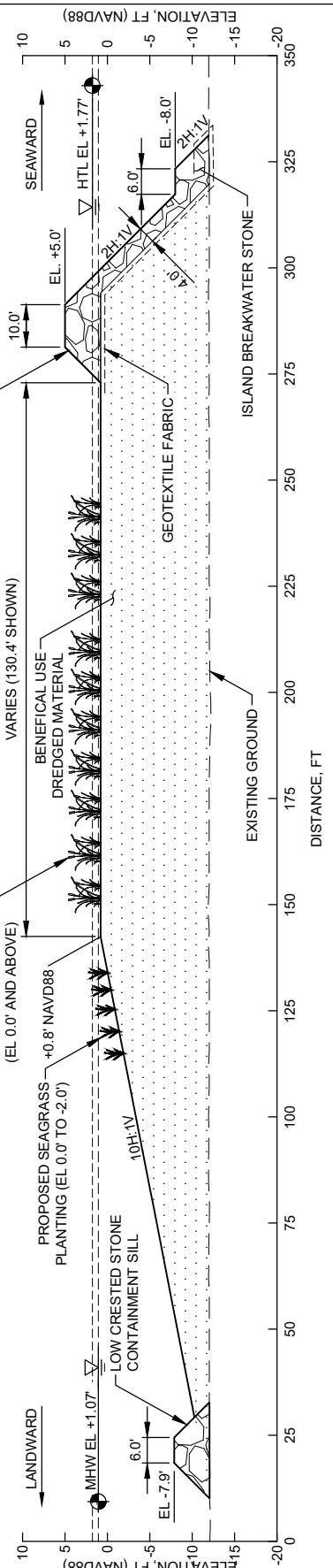
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EL RINCON
BREAKWATERS PROJECT

SECTIONS 2



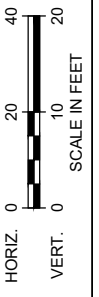
SECTION
ALTERNATIVE 1
ISLAND BREAKWATER



SECTION
ALTERNATIVE 2
ISLAND BREAKWATER

TIDAL WATER LEVELS (NAVD88)	
HIGH TIDE LINE (HTL)	+1.77'
MEAN HIGH WATER (MHW)	+1.01'

NOTES:
1. ALTERNATIVE 1 AND 2 ISLAND BREAKWATER SECTION DEPENDS ON THE ORDER IN WHICH BENEFICIAL USE DREDGED MATERIAL (BUDM) BECOMES AVAILABLE FOR BREAKWATER ISLAND CREATION.



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 7 OF 11

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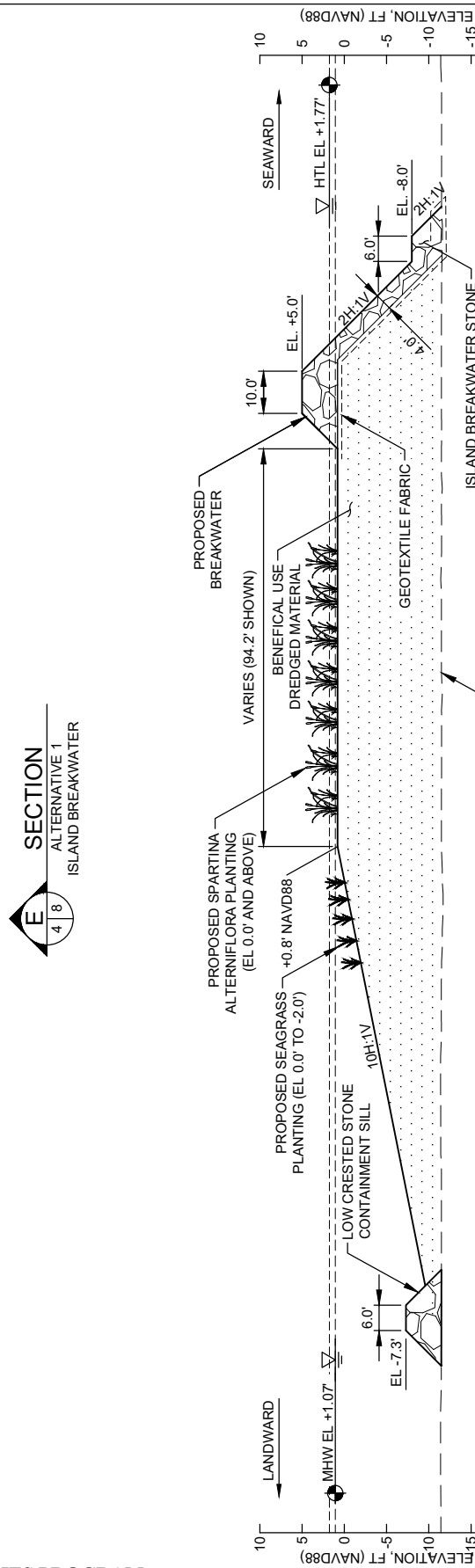
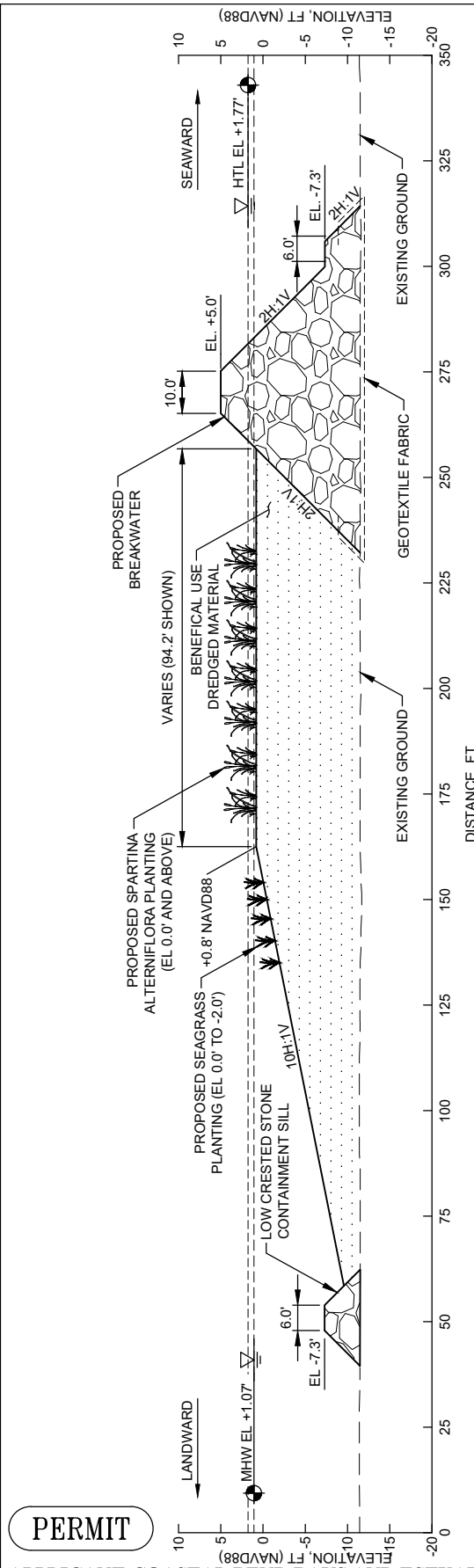
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APPLICANT: COASTAL BEND BAYS
AND ESTUARIES PROGRAM
IN: CORPUS CHRISTI, TX
ADJACENT: CORPUS CHRISTI BAY
COUNTY: NUECES
STATE: TEXAS
VERTICAL DATUM: NAVD88
HORIZONTAL DATUM: TSPS NAD83-FT

**EL RINCON
BREAKWATERS PROJECT**

SECTIONS 3

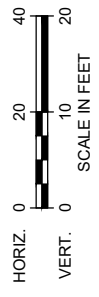
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TIDAL WATER LEVELS (NAVD88)	
HIGH TIDE LINE (HTL)	+1.77'
MEAN HIGH WATER (MHW)	+1.01'

NOTES:

- ALTERNATIVE 1 AND 2 ISLAND BREAKWATER SECTION DEPENDS ON THE ORDER IN WHICH BENEFICIAL USE DREDGED MATERIAL (BUDM) BECOMES AVAILABLE FOR BREAKWATER ISLAND CREATION.



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023

SHEET 8 OF 11

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APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

IN: CORPUS CHRISTI, TX

ADJACENT: CORPUS CHRISTI BAY

COUNTY: NUECES

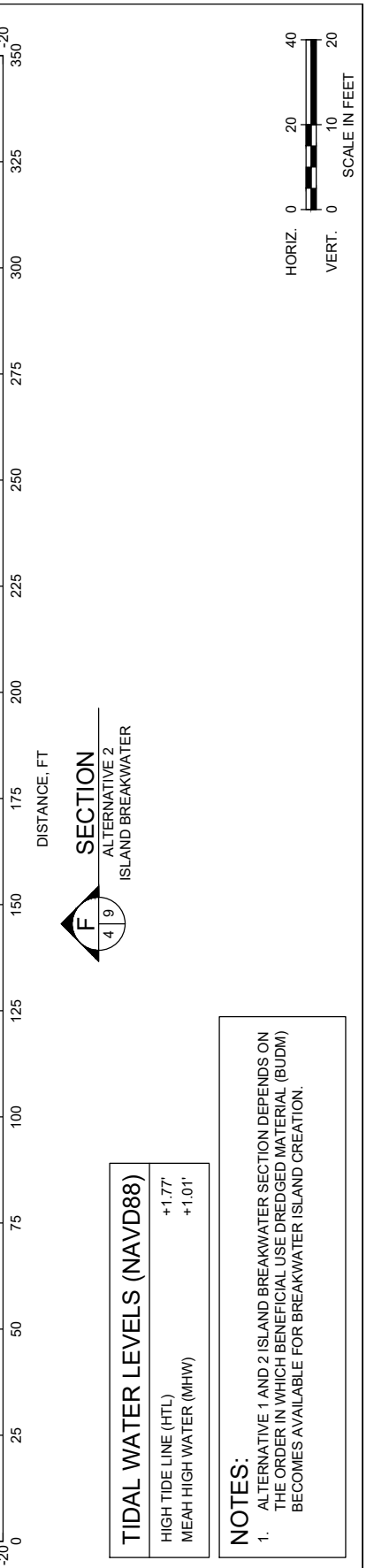
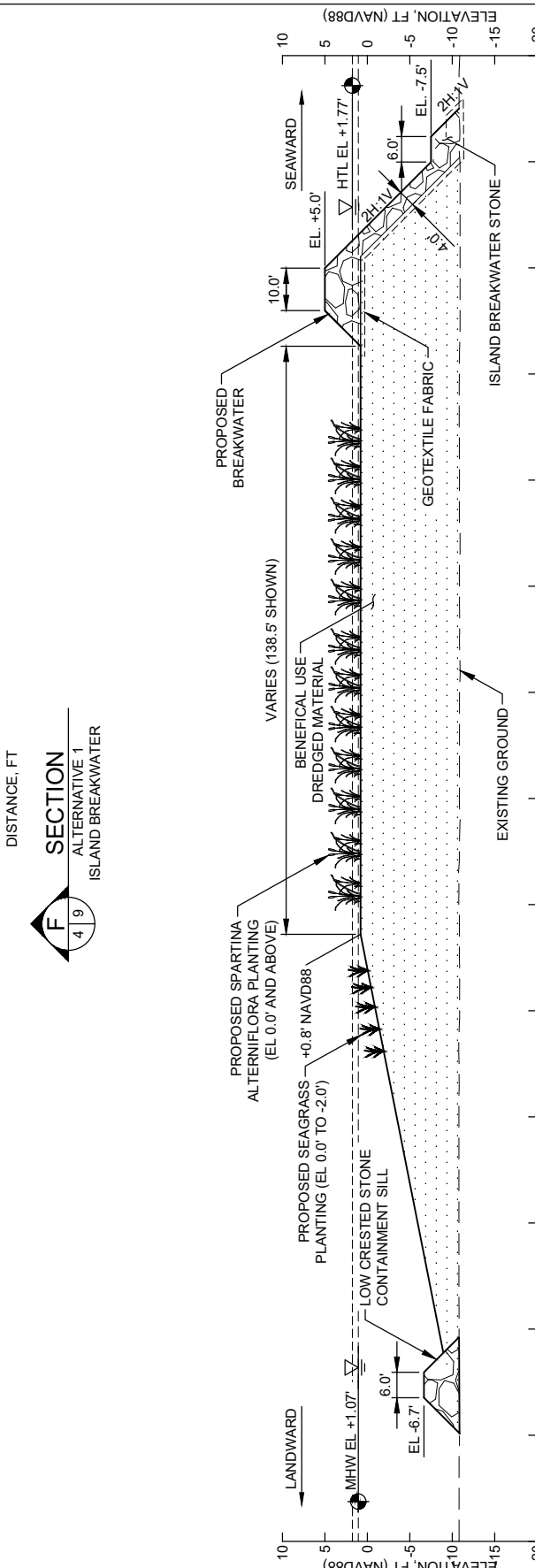
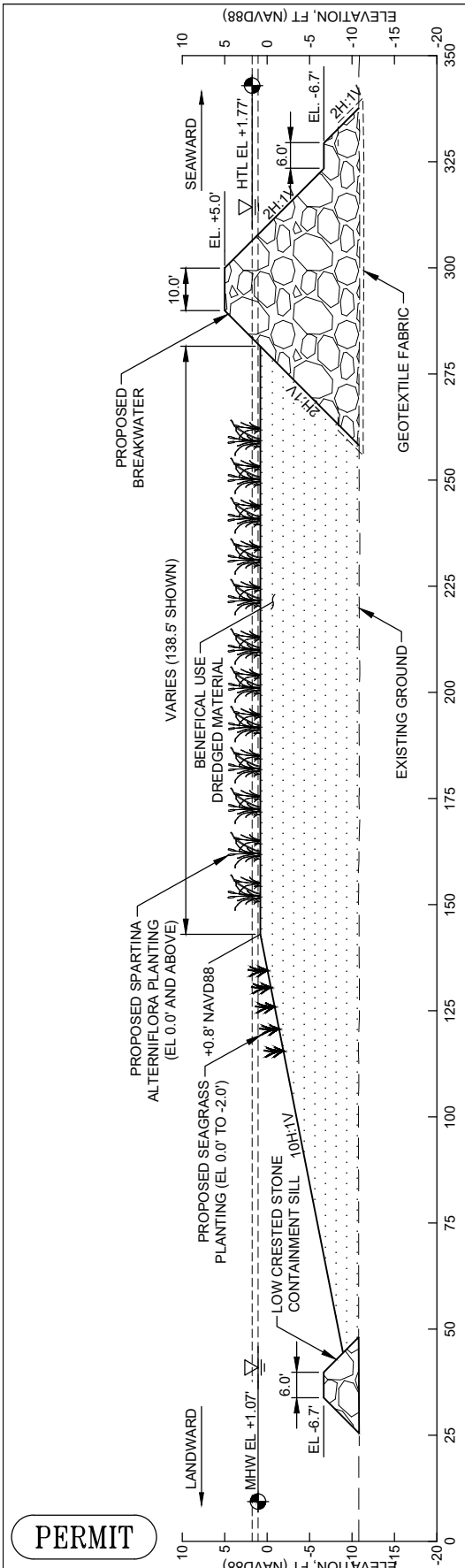
STATE: TEXAS

VERTICAL DATUM: NAVD88

HORIZ. DATUM: TSPS NAD83-FT

EL RINCON
BREAKWATERS PROJECT

SECTIONS 4



PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023 SHEET 9 OF 11

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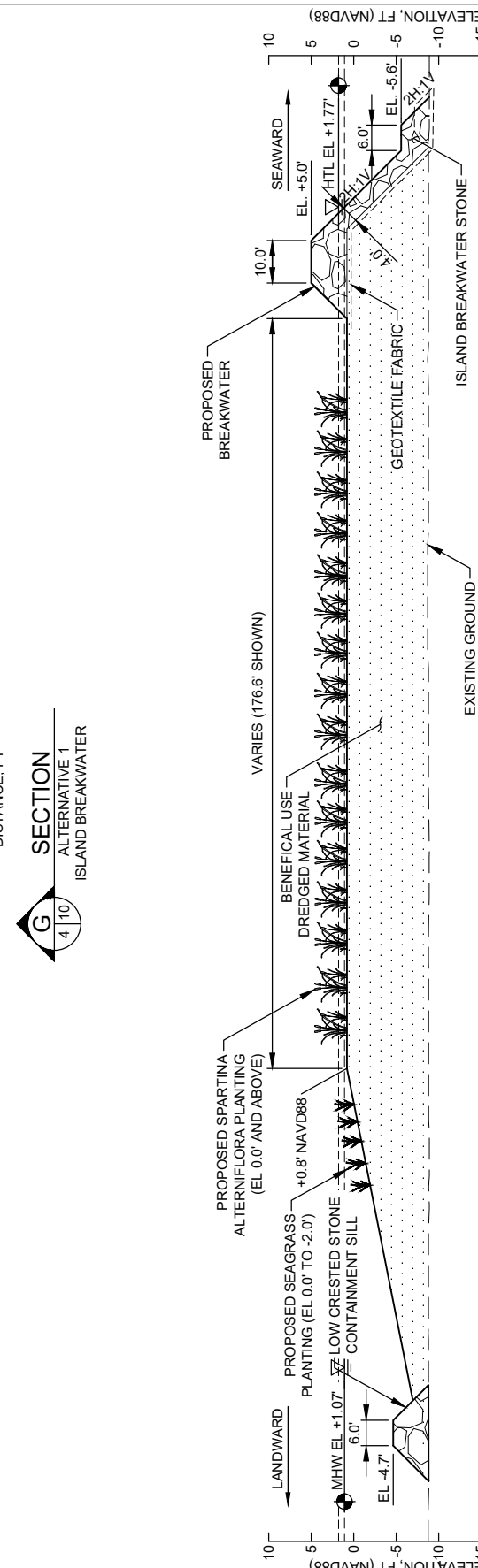
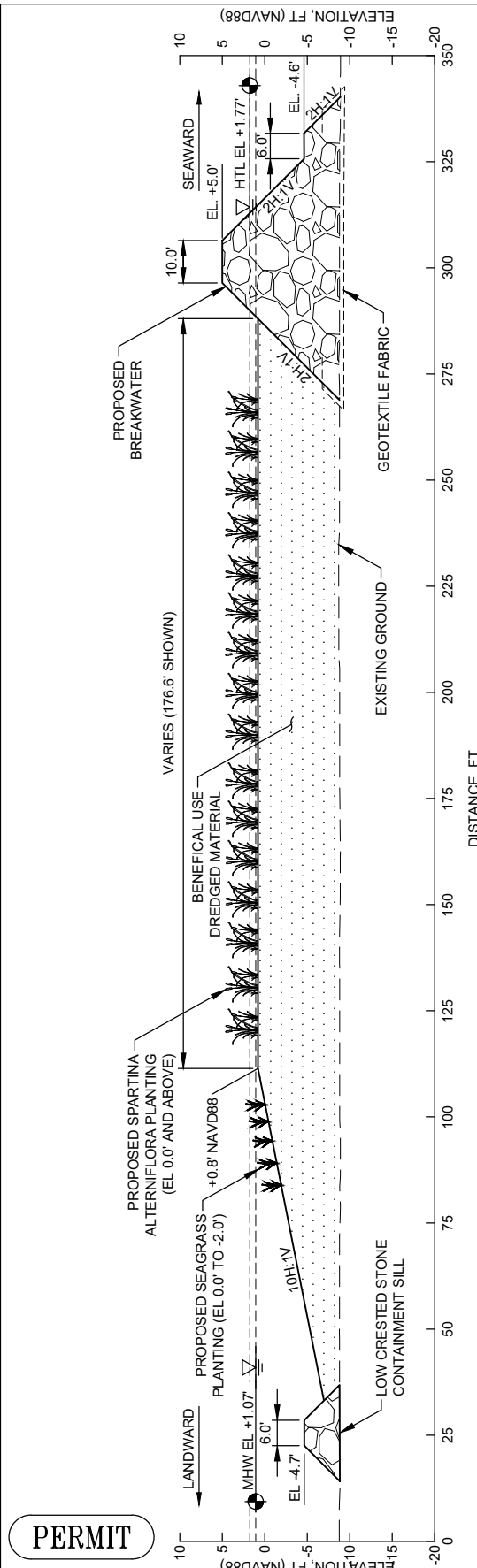
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EL RINCON
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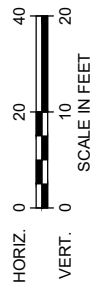
SECTIONS 5



TIDAL WATER LEVELS (NAVD88)	
HIGH TIDE LINE (HTL)	+1.77'
MEAN HIGH WATER (MHW)	+1.01'

NOTES:

- ALTERNATIVE 1 AND 2 ISLAND BREAKWATER SECTION DEPENDS ON THE ORDER IN WHICH BENEFICIAL USE DREDGED MATERIAL (BUDEM) BECOMES AVAILABLE FOR BREAKWATER ISLAND CREATION.



APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023 SHEET 10 OF 11

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EL RINCON
BREAKWATERS PROJECT

SECTIONS 6

THESE PLANS ARE INTENDED FOR PERMITTING AND ARE NOT TO BE USED FOR BIDDING OR CONSTRUCTION.



PIPELINE IS ANTICIPATED TO BE FLOATING EXCEPT FOR CROSSING OF EL RINCON CHANNEL

TEMPORARY CONSTRUCTION CORRIDOR





PROPOSED ISLAND BREAKWATER

PROPOSED SOUTH BREAKWATER

NOTES:

1. BENEFICIAL USE DREDGE MATERIAL (BUDM) FOR ISLAND CREATION MAY BE HARVESTED FROM DMPA HARVEST AREAS SHOWN AS WELL AS DREDGING EVENTS WITHIN THE CORPUS CHRISTI SHIP CHANNEL AND INNER HARBOR.

LEGEND

-  PROPOSED BREAKWATER
-  PROPOSED BENEFICIAL USE DREDGED MATERIAL PLACEMENT AREAS
-  PIPELINE AND CONTRACTOR ACCESS CORRIDOR
-  MEAN HIGH WATER (MHW)
-  HIGH TIDE LINE (HTL)

LOCATION MAP

0 2,500 5,000

SCALE IN FEET

PERMIT

APPLICANT: COASTAL BEND BAYS AND ESTUARIES PROGRAM

OCTOBER 20, 2023 SHEET 11 OF 11



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**EL RINCON
BREAKWATERS PROJECT**

**BENEFICIAL USE HARVEST
SITE PLAN**