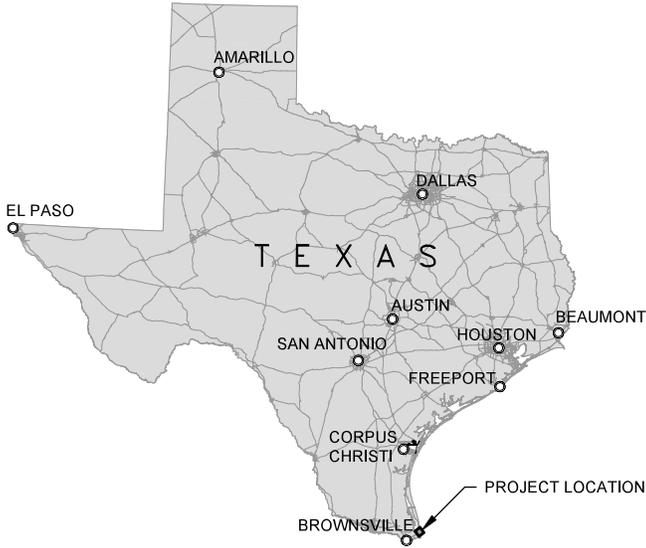


# CHILDRENS BEACH SHORELINE RESTORATION PROJECT



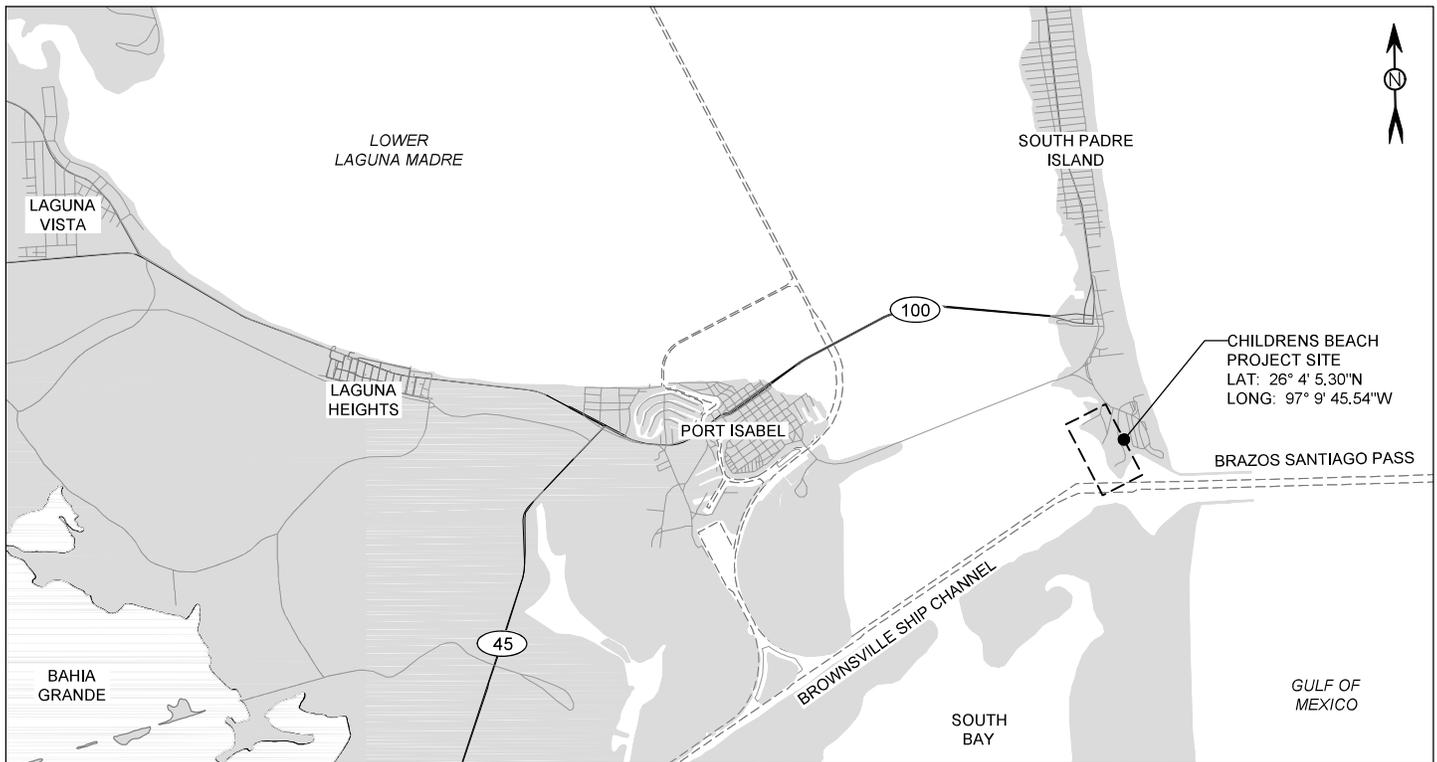
**DIRECTIONS:**

THE PROJECT SITE CAN BE ACCESSED VIA CHANNEL VIEW RD, WITHIN ISLA BLANCA COUNTY PARK AT 33174 STATE PARK RD 100, SOUTH PADRE ISLAND, TX 78597.

**NATURE OF ACTIVITY:**

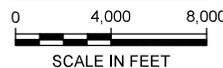
THE PURPOSE OF THIS PROJECT IS TO PROVIDE SHORELINE STABILIZATION, PROTECT AND REFORTIFY THE PROJECT SITE BY NOURISHING THE BEACH, REDUCING ONSHORE WAVE ENERGY, INCREASING SEDIMENT STABILIZATION, AND IMPROVING AQUATIC HABITAT CONDITIONS FOR MARINE LIFE AND SEAGRASS ESTABLISHMENT.

SHEET INDEX	
SHEET NO.	TITLE
1	VICINITY - LOCATION MAP
2	EXISTING SITE CONDITIONS
3	PROPOSED SITE PLAN
4	GENERAL NOTES
5	TYPICAL CROSS SECTIONS - 1
6	TYPICAL CROSS SECTIONS - 2



CHILDRENS BEACH  
PROJECT SITE  
LAT: 26° 4' 5.30"N  
LONG: 97° 9' 45.54"W

**LOCATION MAP**



**PERMIT**

APPLICANT: CAMERON COUNTY

APRIL 6, 2023

SHEET 1 OF 6



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Suite 300  
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T +1 (361) 661-3061  
www.mottmac.com

SITE ADDRESS:  
26° 4' 5.30" N  
97° 9' 45.54" W

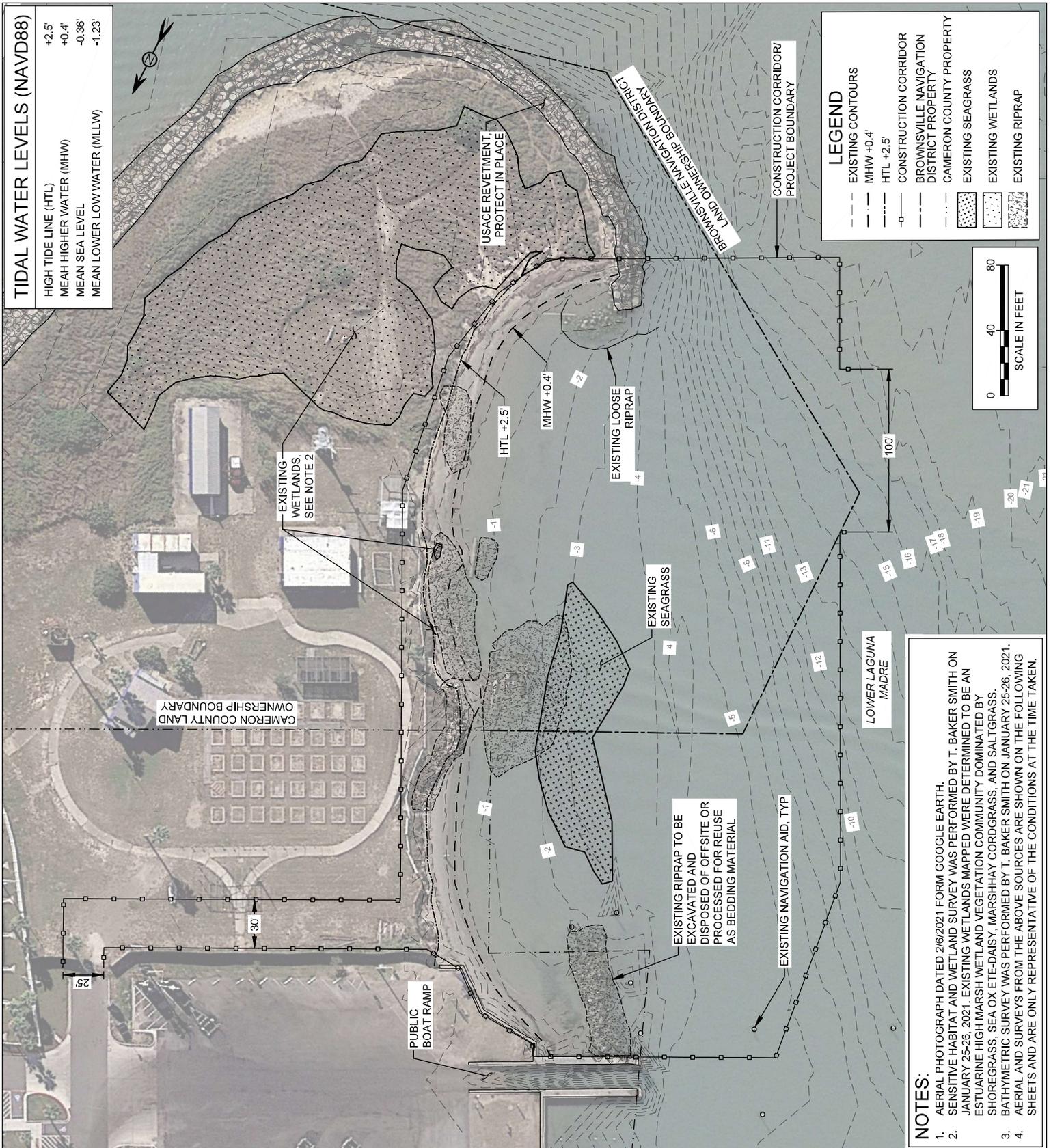
VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL  
DRAWINGS IF NOT ONE INCH ON THIS  
SHEET, ADJUST SCALES ACCORDINGLY



CLIENT: CAMERON COUNTY  
IN: SOUTH PADRE ISLAND, TX  
ADJACENT: LAGUNA MADRE  
COUNTY: CAMERON  
STATE: TEXAS  
VERTICAL DATUM: NAVD88  
HORIZ. DATUM: TSPS NAD83-F T

**CHILDREN'S BEACH  
SHORELINE RESTORATION PROJECT**

**VICINITY - LOCATION MAP**



**TIDAL WATER LEVELS (NAVD88)**

HIGH TIDE LINE (HTL)	+2.5'
MEAN HIGHER WATER (MHW)	+0.4'
MEAN SEA LEVEL	-0.36'
MEAN LOWER LOW WATER (MLLW)	-1.23'

**LEGEND**

--- (dashed line)	EXISTING CONTOURS
--- (dashed line)	MHW +0.4'
--- (dashed line)	HTL +2.5'
--- (dashed line)	CONSTRUCTION CORRIDOR
--- (dashed line)	BROWNSVILLE NAVIGATION DISTRICT PROPERTY
--- (dashed line)	CAMERON COUNTY PROPERTY
[Stippled pattern]	EXISTING SEAGRASS
[Dotted pattern]	EXISTING WETLANDS
[Cross-hatched pattern]	EXISTING RIPRAP

**NOTES:**

1. AERIAL PHOTOGRAPH DATED 2/6/2021 FROM GOOGLE EARTH. SENSITIVE HABITAT AND WETLAND SURVEY WAS PERFORMED BY T. BAKER SMITH ON JANUARY 25-26, 2021. EXISTING WETLANDS MAPPED WERE DETERMINED TO BE AN ESTUARINE HIGH MARSH WETLAND VEGETATION COMMUNITY DOMINATED BY SHOREGRASS, SEA OX ETE-DAISY, MARSHHAY CORDGRASS, AND SALTGRASS.
2. BATHYMETRIC SURVEY WAS PERFORMED BY T. BAKER SMITH ON JANUARY 25-26, 2021. AERIAL AND SURVEYS FROM THE ABOVE SOURCES ARE SHOWN ON THE FOLLOWING SHEETS AND ARE ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.

**PERMIT**

APPLICANT: CAMERON COUNTY

APRIL 6, 2023 SHEET 2 OF 6

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**CHILDREN'S BEACH SHORELINE RESTORATION PROJECT**

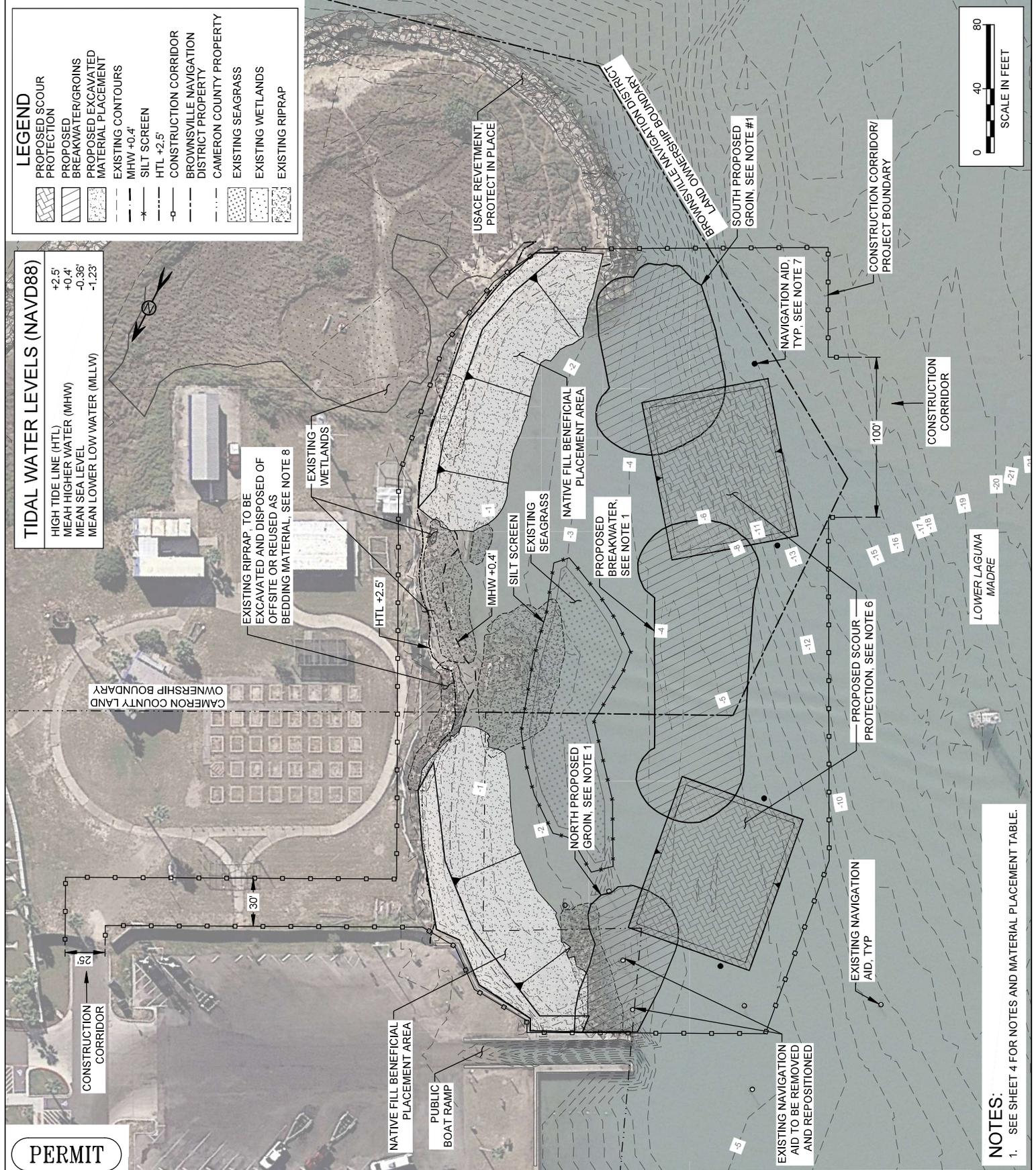
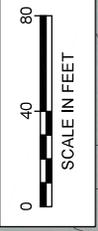
**EXISTING SITE CONDITIONS**

**TIDAL WATER LEVELS (NAVD88)**

HIGH TIDE LINE (HTL)	+2.5'
MEAN HIGHER WATER (MHW)	+0.4'
MEAN SEA LEVEL	-0.36'
MEAN LOWER LOW WATER (MLLW)	-1.23'

**LEGEND**

	PROPOSED SCOUR PROTECTION
	PROPOSED BREAKWATER/GROINS
	PROPOSED EXCAVATED MATERIAL PLACEMENT
	EXISTING CONTOURS
	MHW +0.4'
	HTL +2.5'
	CONSTRUCTION CORRIDOR
	BROWNSVILLE NAVIGATION DISTRICT PROPERTY
	CAMERON COUNTY PROPERTY
	EXISTING SEAGRASS
	EXISTING WETLANDS
	EXISTING RIPRAP



**PERMIT**

APPLICANT: CAMERON COUNTY

APRIL 6, 2023 SHEET 3 OF 6

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**COUNTY:** CAMERON  
**STATE:** TEXAS  
**VERTICAL DATUM:** NAVD88  
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**CHILDREN'S BEACH SHORELINE RESTORATION PROJECT**

**PROPOSED SITE PLAN**

**NOTES:**  
 1. SEE SHEET 4 FOR NOTES AND MATERIAL PLACEMENT TABLE.

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

**NOTES:**

- BREAKWATER AND GROINS MAY BE CONSTRUCTED OF MATERIAL OR UNITS COMPOSED OF CONCRETE, STEEL, MESH, GEOGRID, GEOTEXTILE, STONE, PILES, CHAINS, ANCHORS, OYSTER SHELL, OR SIMILAR. PROPOSED BREAKWATER, GROINS AND BEACH FILL LOCATIONS, QUANTITIES, AND ELEVATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE DURING FINAL DESIGN AND/OR DURING CONSTRUCTION DUE TO CHANGE IN CONDITIONS. NO HAZARDOUS MATERIALS SHALL BE CONSIDERED FOR BREAKWATER OR GROIN ALTERNATIVE MATERIAL TYPES.
- NAVIGATION AIDS WILL BE PLACED IN ACCORDANCE WITH THE U.S. COAST GUARD REQUIREMENTS. AIDS TO NAVIGATION DETAILS TO BE FINALIZED BASED ON US COAST GUARD STANDARDS.
- CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS AND/OR APPROVED EQUAL BMPs TO MINIMIZE DISTURBANCE TO THE SHORELINE AND VEGETATION.
- CONTRACTOR SHALL USE CONSTRUCTION MATS OR SIMILAR WITHIN LAND ACCESS AREAS TO MINIMIZE DISTURBANCE TO THE SHORELINE AND VEGETATION.
- PERMANENT IMPACTS WATERWARD OF THE HTL WILL BE WITHIN UNVEGETATED BAY BOTTOM. NO IMPACTS TO EXISTING SEAGRASS, OYSTERS, OR WETLANDS ARE PROPOSED AS PART OF PROJECT CONSTRUCTION.
- PROPOSED SCOUR PROTECTION AREAS SHALL BE EXCAVATED TO A MAXIMUM OF 2FT BELOW EXISTING ELEVATION AND CONSTRUCTED OF MARINE MATTRESS MATERIAL.
- MAXIMUM AMOUNT OF NATIVE FILL BASED ON TOTAL AMOUNT OF EXCAVATION NEEDED FOR SCOUR PROTECTION INSTALLATION.
- EXISTING RIPRAP SHALL BE EXCAVATED DOWN TO A MAXIMUM OF 3 FT DEPTH AND REPLACED WITH NATIVE FILL MATERIAL, WHERE NO SENSITIVE HABITAT IS PRESENT. TO AVOID IMPACTS TO EXISTING SENSITIVE HABITAT THERE WILL BE NO EXCAVATION OR PLACEMENT OF MATERIAL WITHIN 10 FEET FROM THE SURVEYED SEAGRASSES AND WETLANDS. SILT SCREENS SHALL BE INSTALLED AND MAINTAINED AROUND EXISTING SEAGRASS THROUGHOUT ALL EXCAVATION AND NATIVE FILL PLACEMENT ACTIVITIES.

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**MAX EXCAVATION/FILL-RELATED IMPACTS  
(WATERWARD OF HTL & MHW)**

	MATERIAL	LENGTH (FT)	FOOTPRINT AREA (ACRES)	EXCAVATED VOLUME (CY)	PLACED VOLUME (CY)
1	NATIVE FILL MATERIAL BENEFICIAL PLACEMENT	500	0.50	0	1,300
2	GROIN AND BREAKWATER MATERIAL PLACEMENT	480	0.60	0	4,200
3	EXCAVATION AND PLACEMENT OF SCOUR PROTECTION MATERIAL*	200	0.45	1,300	1,300
4	EXCAVATION OF EXISTING RIPRAP AND PLACEMENT OF NATIVE FILL MATERIAL**	360	0.20	700	700

\* VOLUMES SHOWN ARE MAXIMUM. EXCAVATED MATERIAL SHALL BE UTILIZED FOR NATIVE FILL PLACEMENT ITEMS 1 AND 4.

\*\* LENGTH, FOOTPRINT AREA AND VOLUMES EXCAVATED ARE MAXIMUM AND WILL BE REPLACED WITH NATIVE FILL EXCAVATED FROM ITEM 3.

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**PERMIT**

APPLICANT: CAMERON COUNTY

APRIL 6, 2023

SHEET 4 OF 6



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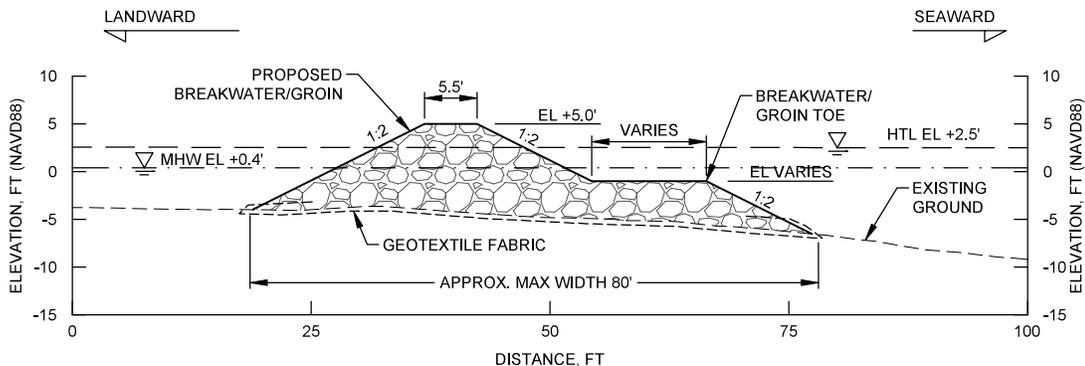
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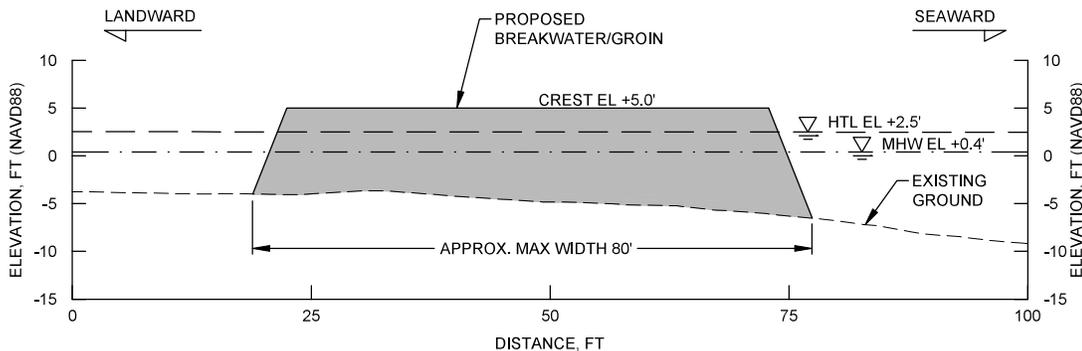
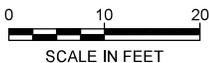
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**CHILDREN'S BEACH  
SHORELINE RESTORATION PROJECT**

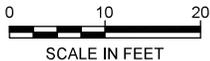
**GENERAL NOTES**



**TYPICAL SECTION**  
STONE BREAKWATER  
AND GROIN



**TYPICAL SECTION**  
ALTERNATIVE MATERIAL  
BREAKWATER  
AND GROIN



**NOTES:**

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**PERMIT**

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SHEET 5 OF 6



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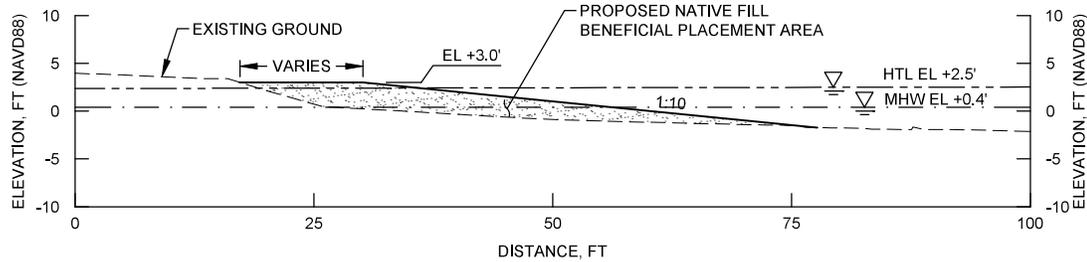
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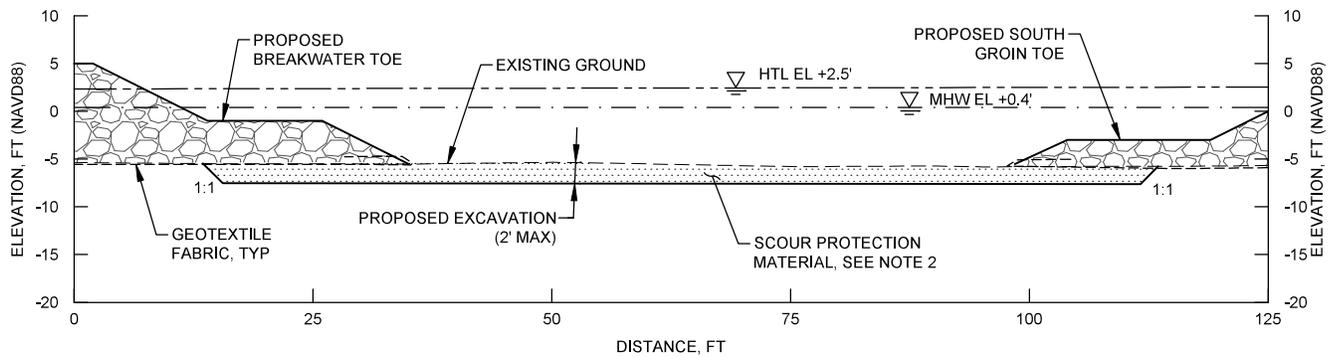
**CHILDREN'S BEACH  
SHORELINE RESTORATION PROJECT**

**TYPICAL CROSS SECTIONS - 1**



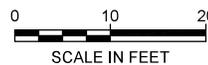
**TYPICAL SECTION**

PROPOSED NATIVE FILL BENEFICIAL PLACEMENT AREA



**TYPICAL SECTION**

SCOUR PROTECTION AREA



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SHEET 6 OF 6

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**TYPICAL CROSS SECTIONS - 2**