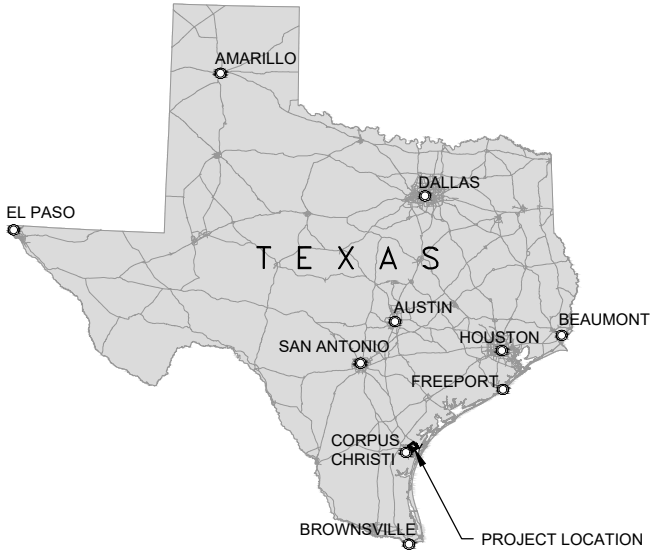


INDIAN POINT CAUSEWAY SHORELINE EROSION PROTECTION - PHASE 1



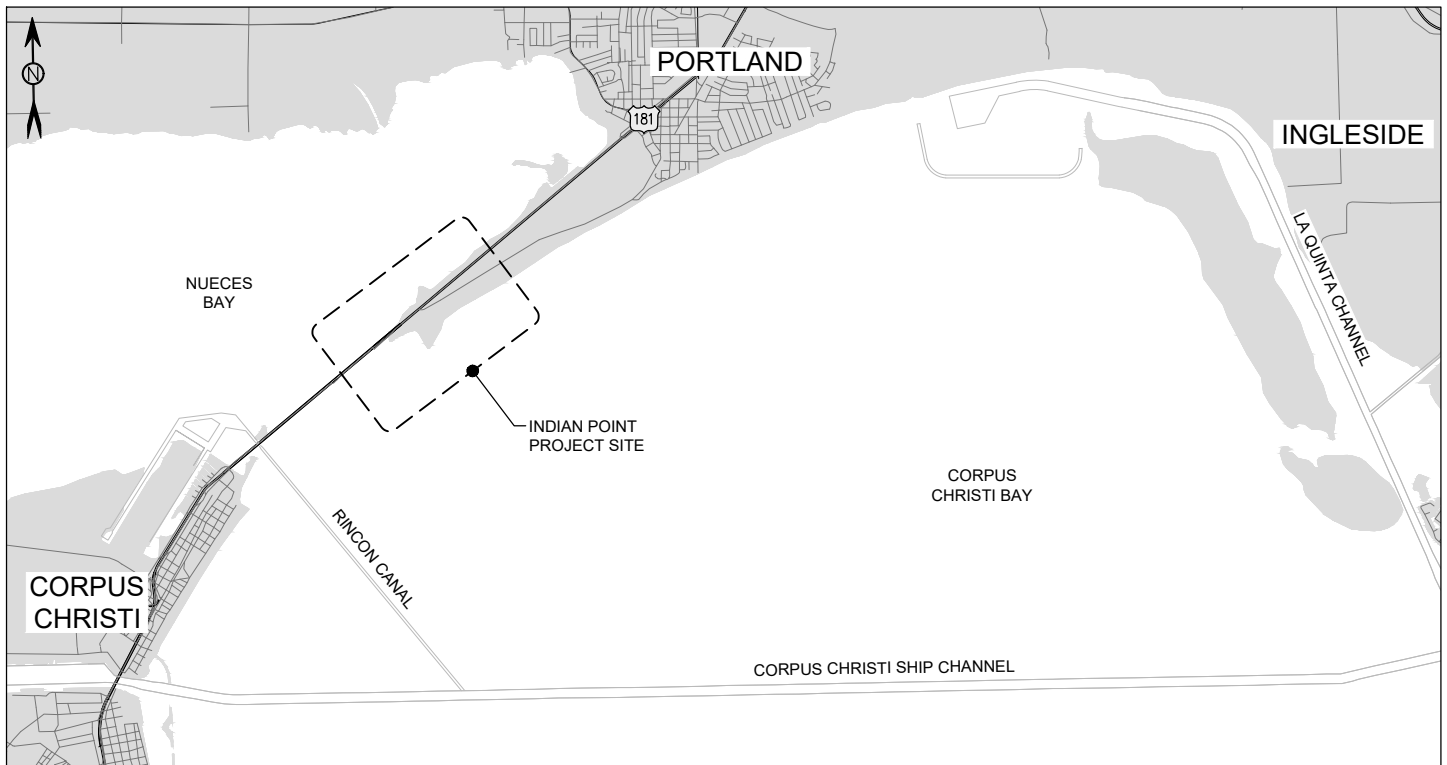
DIRECTIONS:

THE PROJECT SITE CAN BE ACCESSED VIA INDIAN POINT PIER ROADWAY LOCATED OFF THE INDIAN POINT PARK EXIT ON THE NUECES BAY CAUSEWAY (TX-35) HIGHWAY.

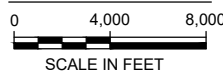
NATURE OF ACTIVITY:

THE PURPOSE OF THIS PROJECT IS TO PROVIDE SHORELINE STABILIZATION AND ENHANCE SEAGRASS AND MARSH HABITATS ALONG THE SHORELINE SOUTH OF THE INDIAN POINT CAUSEWAY. A LIVING SHORELINE COMPOSED OF SEGMENTED OFF SHORE RIPRAP BREAKWATERS, LIVING SHORELINE UNITS, OYSTER REEFS, AND SHORELINE FILL WILL BE CONSTRUCTED.

| SHEET INDEX | |
|-------------|-------------------------|
| SHEET NO. | TITLE |
| 1 | VICINITY - LOCATION MAP |
| 2 | EXISTING SITE PLAN |
| 3 | PROPOSED SITE PLAN |
| 4 | CROSS SECTIONS - 1 |
| 5 | CROSS SECTIONS - 2 |



LOCATION MAP



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APPLICANT: PORT OF CORPUS CHRISTI AUTHORITY

OCTOBER 23, 2020

SHEET 1 OF 5

M M
MOTT MACDONALD
711 North Carancahua
Suite 1610
Corpus Christi, Texas 78401
Texas Registered Firm No. 12181
T +1 (361) 661-3061
www.mottmac.com

SITE ADDRESS:
27° 51' 3.43" N
97° 21' 18.44" W

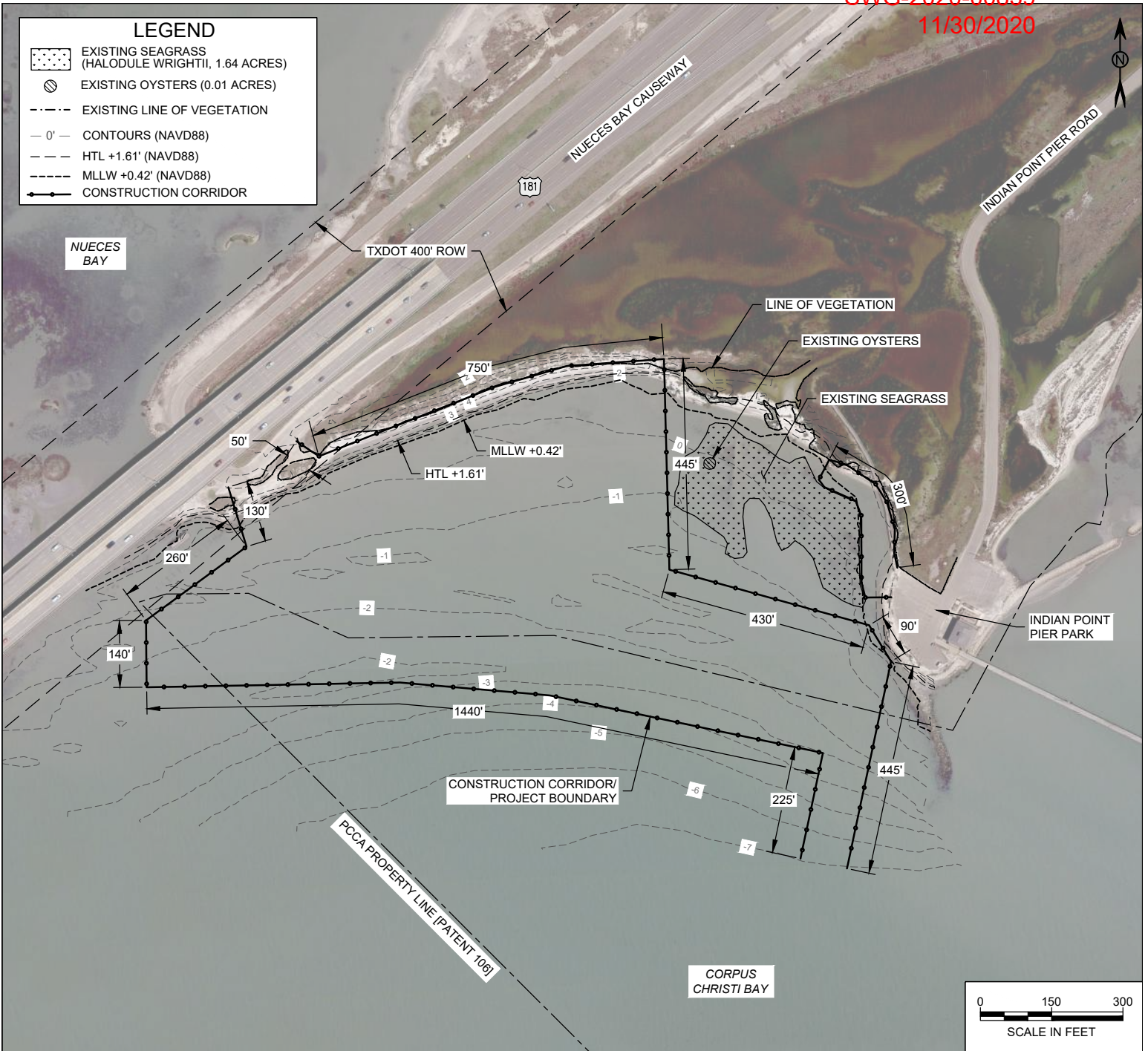
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL
DRAWINGS IF NOT ONE INCH ON THIS
SHEET, ADJUST SCALES ACCORDINGLY



CLIENT: PORT OF CORPUS CHRISTI
AUTHORITY
IN: NUECES COUNTY
ADJACENT: NUECES BAY
COUNTY: NUECES
STATE: TEXAS
VERTICAL DATUM: NAVD88
HORIZ. DATUM: TSPS NAD83-FT

**INDIAN POINT CAUSEWAY
SHORELINE EROSION PROTECTION
PHASE 1**

VICINITY - LOCATION MAP



NOTES:

1. AERIAL PHOTOGRAPH DATED AUGUST 29, 2017 FROM GOOGLE EARTH .
2. VEGETATION SURVEY WAS PERFORMED BY NAISMITH MARINE SERVICES ON FEBRUARY 12, 2020.
3. BATHYMETRIC SURVEY WAS PERFORMED BY NAISMITH MARINE SERVICES ON FEBRUARY 12, 2020.
4. AERIAL AND SURVEYS FROM THE ABOVE SOURCES ARE SHOWN ON THE FOLLOWING SHEETS AND ARE ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.

TIDAL WATER LEVELS (NAVD88)

| | |
|-------------------------------|--------|
| HIGH TIDE LINE (HTL) | +1.61' |
| MEAN HIGHER HIGH WATER (MHHW) | +1.02' |
| MEAN SEA LEVEL | +0.76' |
| MEAN LOWER LOW WATER (MLLW) | +0.42' |

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APPLICANT: PORT OF CORPUS CHRISTI AUTHORITY

OCTOBER 23, 2020

SHEET 2 OF 5

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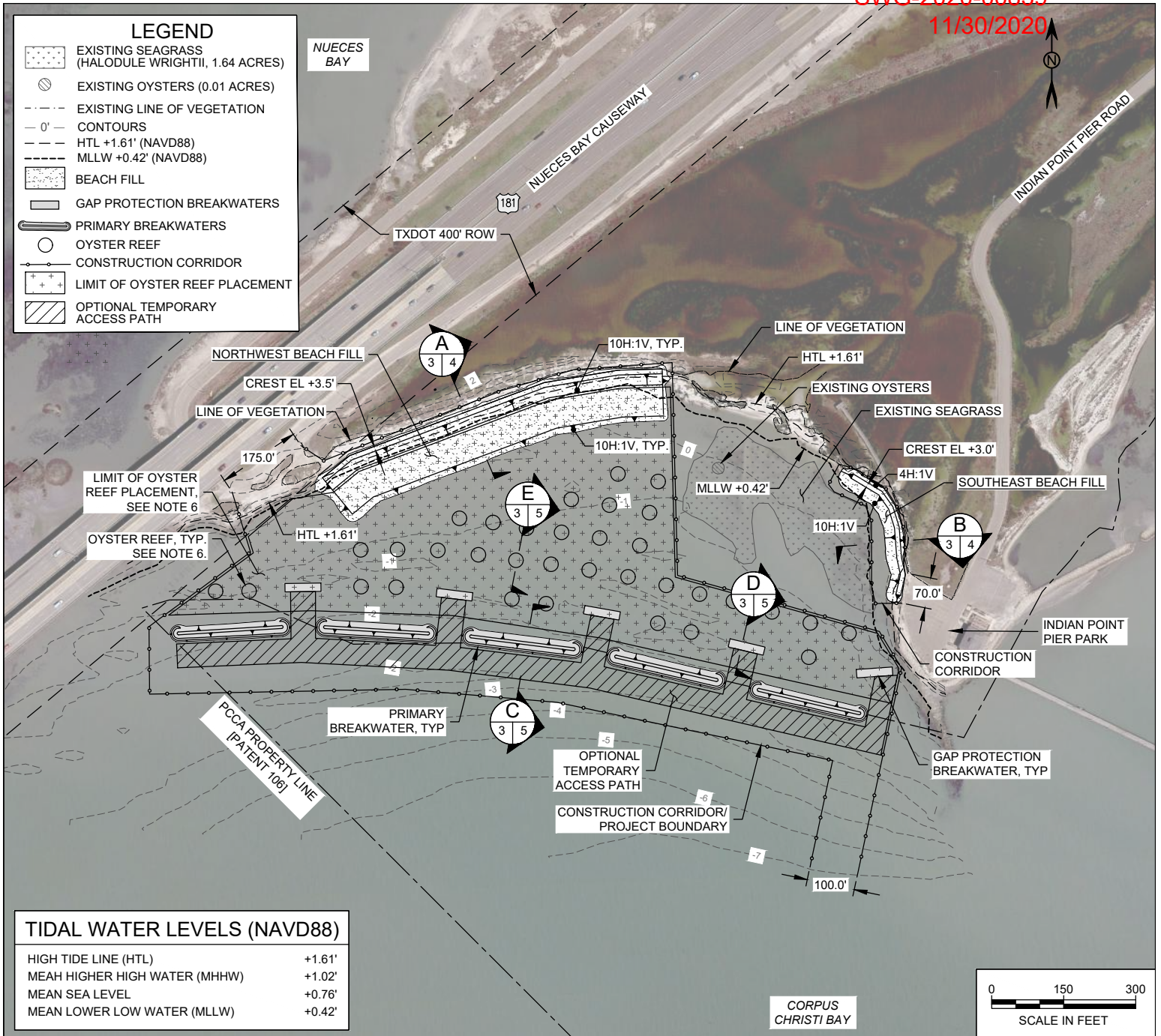
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**INDIAN POINT CAUSEWAY
 SHORELINE EROSION PROTECTION
 PHASE 1**

EXISTING SITE PLAN

LEGEND

- EXISTING SEAGRASS (HALODULE WRIGHTII, 1.64 ACRES)
- EXISTING OYSTERS (0.01 ACRES)
- EXISTING LINE OF VEGETATION
- CONTOURS
- HTL +1.61' (NAVD88)
- MLLW +0.42' (NAVD88)
- BEACH FILL
- GAP PROTECTION BREAKWATERS
- PRIMARY BREAKWATERS
- OYSTER REEF
- CONSTRUCTION CORRIDOR
- LIMIT OF OYSTER REEF PLACEMENT
- OPTIONAL TEMPORARY ACCESS PATH



TIDAL WATER LEVELS (NAVD88)

| | |
|-------------------------------|--------|
| HIGH TIDE LINE (HTL) | +1.61' |
| MEAN HIGHER HIGH WATER (MHHW) | +1.02' |
| MEAN SEA LEVEL | +0.76' |
| MEAN LOWER LOW WATER (MLLW) | +0.42' |

- #### NOTES:
- PROPOSED BREAKWATER, OYSTER REEF, 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.
 - NAVIGATION AIDS WILL BE PLACED IN ACCORDANCE WITH U.S. COAST GUARD REQUIREMENTS.
 - CONTRACTOR SHALL INSTALL TURBIDITY CURTAINS AND/OR APPROVED EQUAL Bmps TO MINIMIZE TURBIDITY DUE TO CONSTRUCTION IN THE VICINITY OF SEAGRASSES AND OYSTERS.
 - 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.
 - LAYOUT SHOWN OF PROPOSED OYSTER REEFS IS PRELIMINARY AND IS SUBJECT TO CHANGE. EXACT LOCATION OF PROPOSED OYSTER REEFS WILL BE DEPENDENT ON SEABED ELEVATIONS AFTER THE SITE HAS HAD TIME TO EQUILIBRATE FOLLOWING INSTALLATION OF THE BREAKWATERS AND BEACH FILL. OYSTER REEF PLACEMENT SHALL BE LIMITED TO EXTENTS SHOWN.

MAX PLACED MATERIAL (WATERWARD OF HTL)

| MATERIAL | LENGTH (FT) | FOOTPRINT AREA (ACRES) | VOLUME (CY) |
|--------------|-------------|------------------------|-------------|
| BEACH FILL | 1,200 | 3 | 5,000 |
| BREAKWATER | 2,000 | 2 | 10,000 |
| OYSTER REEFS | 2,100 | 1.5 | 2,000 |

MAX TEMPORARY IMPACTS (SEAWARD OF HTL)

| ACTIVITY | FOOTPRINT AREA (ACRES) |
|--|------------------------|
| CONSTRUCTION CORRIDOR/ PROJECT BOUNDARY | 20 |
| OPTIONAL ACCESS PATH | 3 |

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APPLICANT: PORT OF CORPUS CHRISTI AUTHORITY

OCTOBER 23, 2020 SHEET 3 OF 5

MOTT MACDONALD

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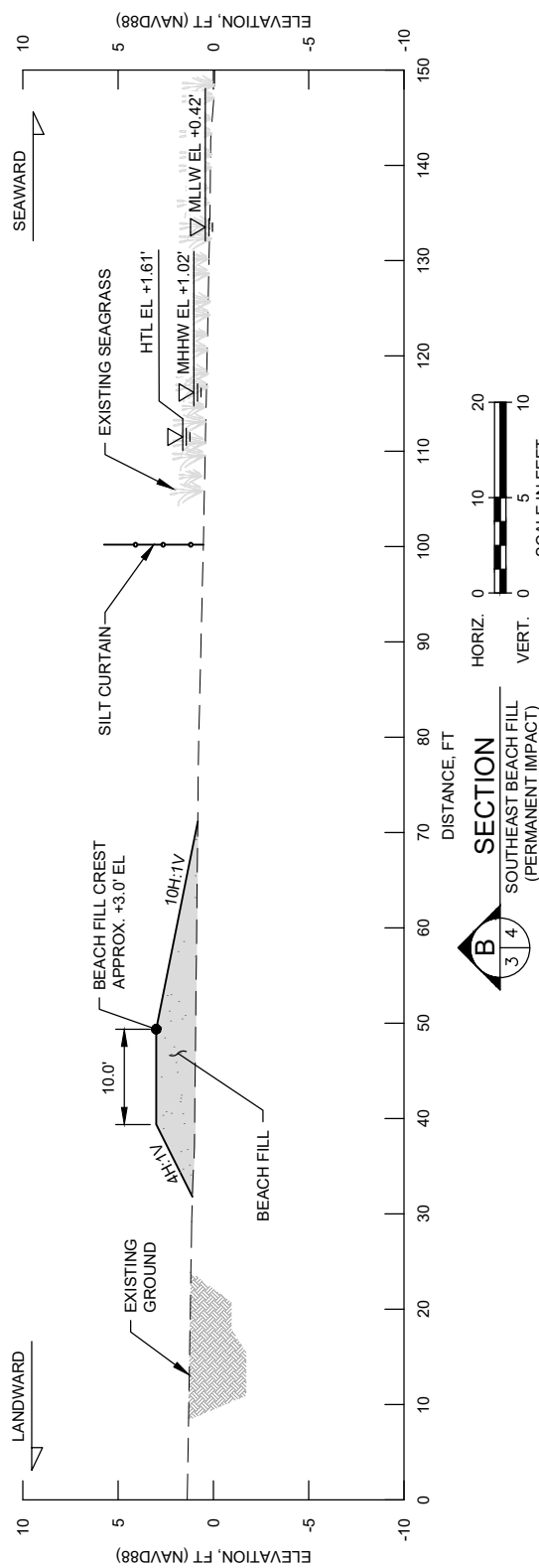
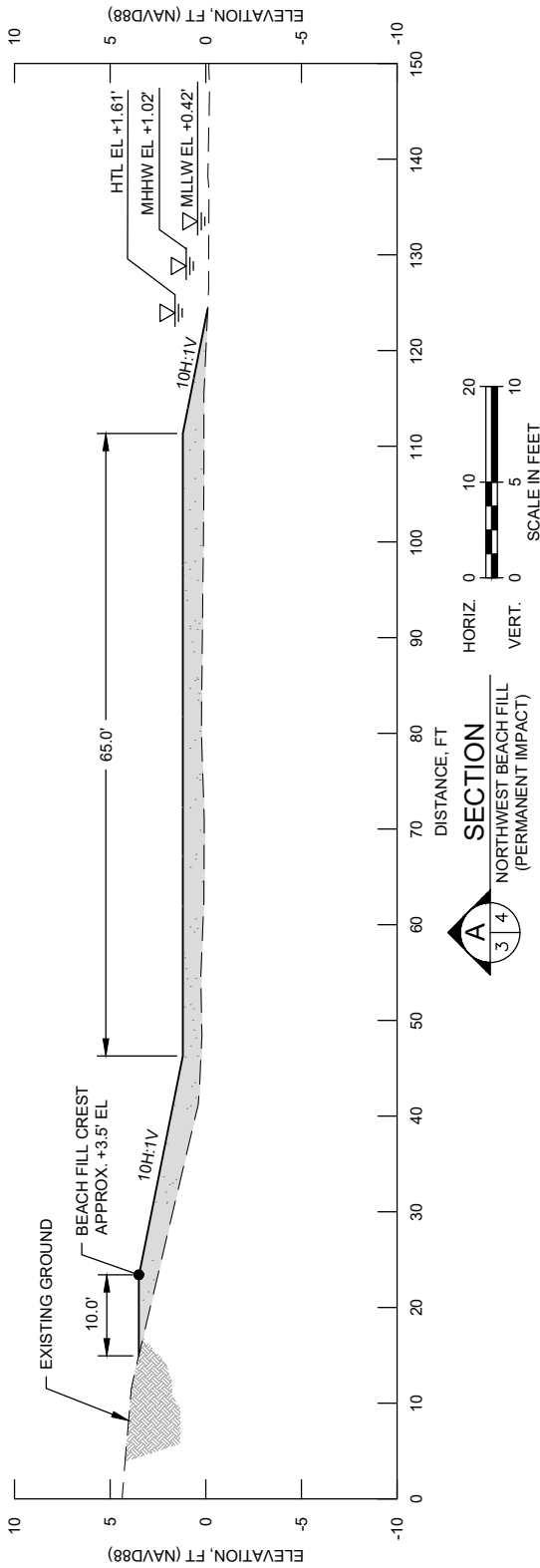
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HORIZ. DATUM: TSPS NAD83-FT

INDIAN POINT CAUSEWAY SHORELINE EROSION PROTECTION PHASE 1

PROPOSED SITE PLAN



| TIDAL WATER LEVELS (NAVD88) | |
|-------------------------------|--------|
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| MEAN SEA LEVEL | +0.76' |
| MEAN LOWER LOW WATER (MLLW) | +0.42' |

NOTES:

1. PROPOSED BEACH FILL LOCATIONS, QUANTITIES, AND ELEVATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE DURING FINAL DESIGN.

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APPLICANT: PORT OF CORPUS CHRISTI AUTHORITY

OCTOBER 23, 2020 SHEET 4 OF 5

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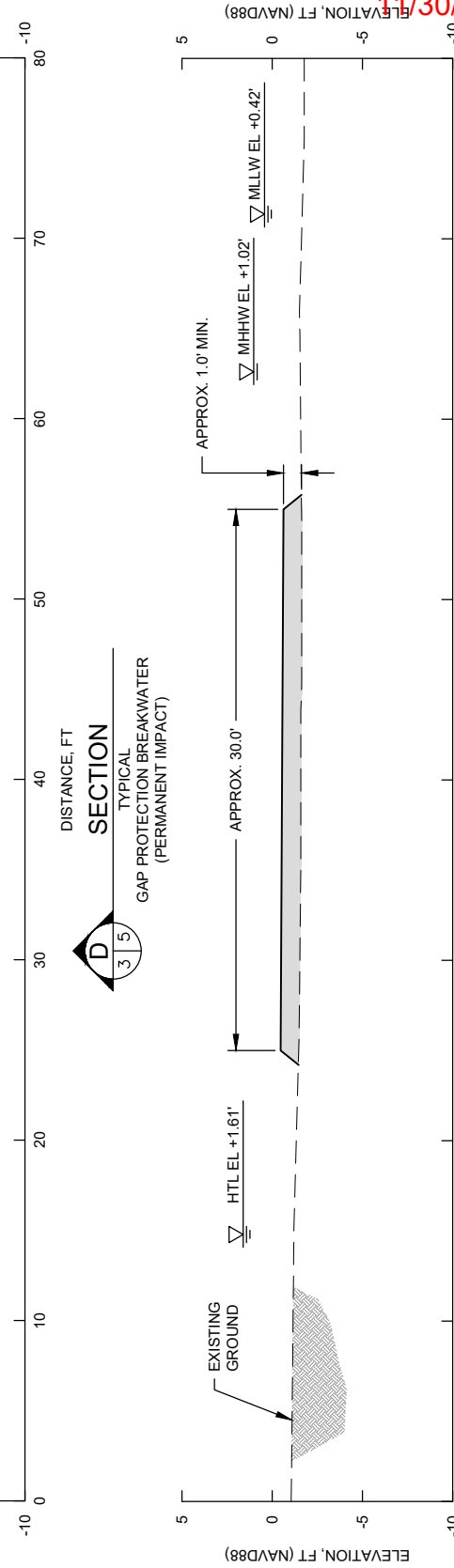
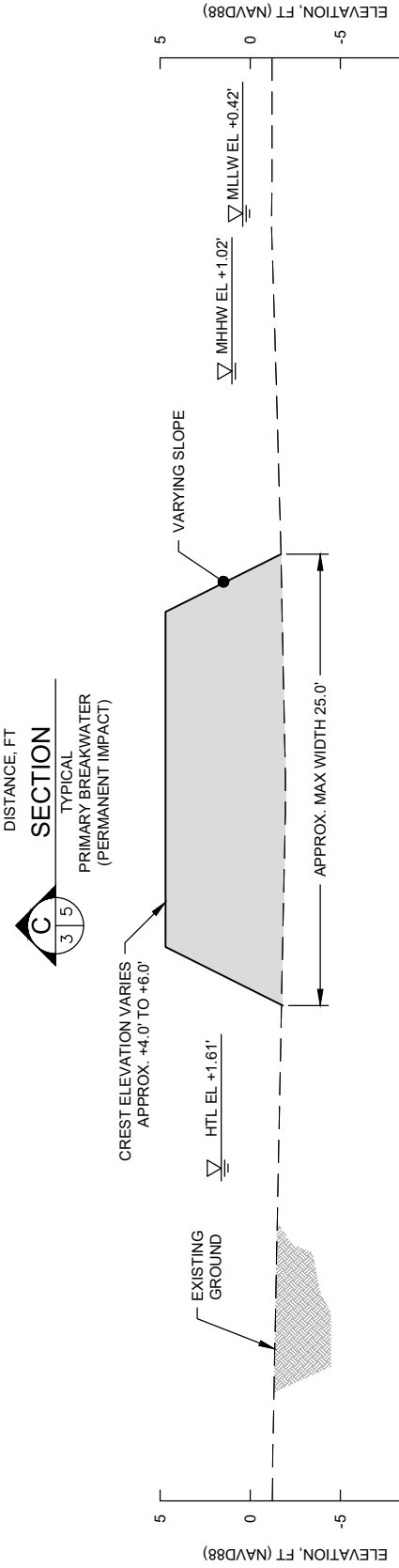
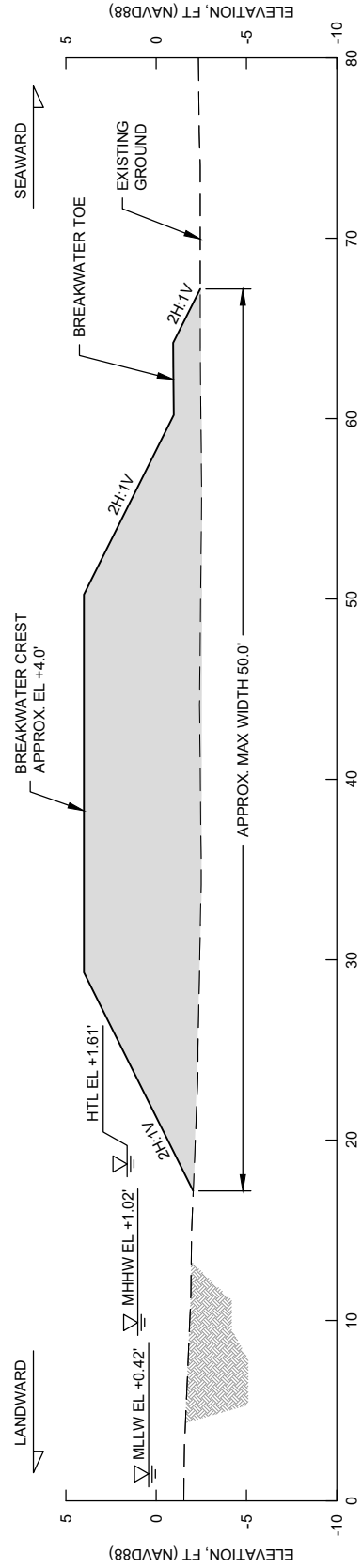
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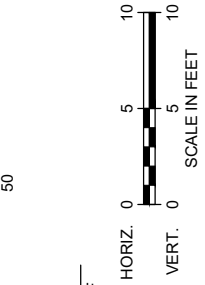
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INDIAN POINT CAUSEWAY SHORELINE EROSION PROTECTION PHASE 1

CROSS SECTIONS - 1



| TIDAL WATER LEVELS (NAVD88) | |
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**INDIAN POINT CAUSEWAY
 SHORELINE EROSION PROTECTION
 PHASE 1**

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

CROSS SECTIONS - 2

NOTES:
 1. PROPOSED BREAKWATER LOCATIONS, QUANTITIES, AND ELEVATIONS ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE DURING FINAL DESIGN.
 2. BREAKWATERS MAY BE CONSTRUCTED OF MATERIAL OR UNITS COMPOSED OF CONCRETE, STEEL, MESH, GEOGRID, GEOTEXTILE, BEDDING STONE, PILES, ROCK, CHAINS, ANCHORS, FLOATING PLATFORMS, OYSTER SHELL, OR SIMILAR.
 3. OYSTER REEFS MAY BE CONSTRUCTED OF MATERIALS INCLUDING OYSTERS, LOOSE SHELL, SHELL HASH, SHELL BAGS, STAKES, OR SIMILAR. OYSTER REEFS WILL BE INSTALLED AFTER BREAKWATERS AND BEACH FILLS HAVE BEEN CONSTRUCTED.