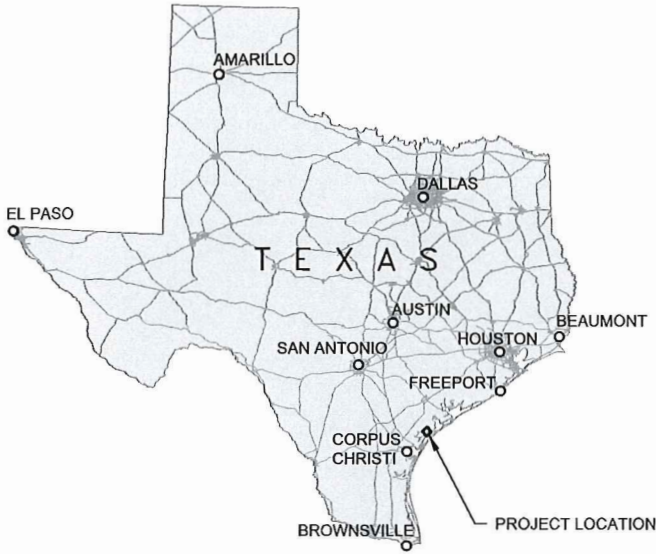


ARANSAS COUNTY

OCT 28 2019

LAMAR BEACH ROAD FLOOD HAZARD MITIGATION



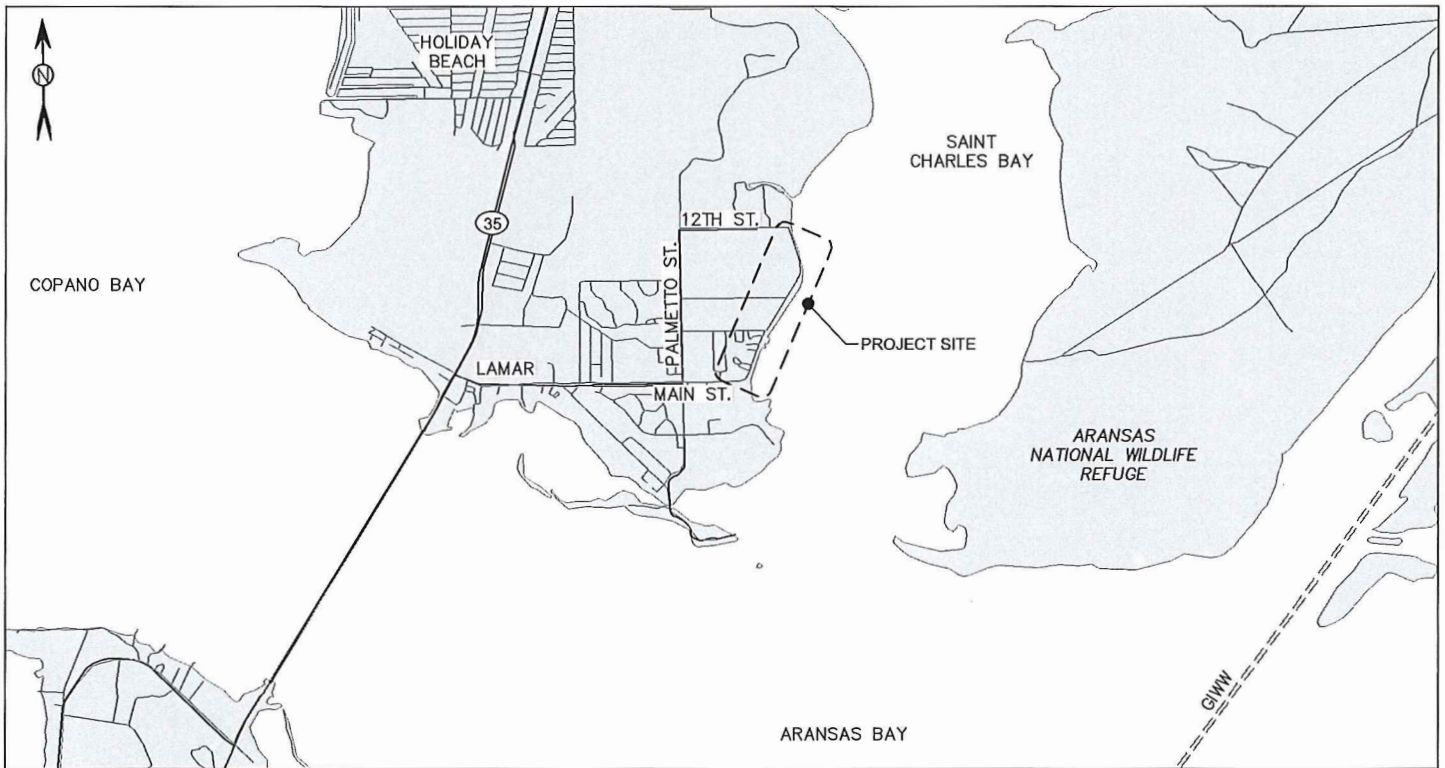
DIRECTIONS:

THE PROJECT SITE CAN BE ACCESSED ALONG THE LAMAR BEACH ROAD WATERFRONT. LAMAR BEACH ROAD IS LOCATED EAST OF PALMETTO ST., AND EXTENDS FROM 12TH ST. AT THE NORTHERN END TO MAIN ST. AT THE SOUTHERN END.

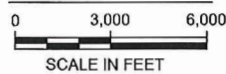
NATURE OF ACTIVITY:

THE PURPOSE OF THIS PROJECT IS TO PROVIDE SHORELINE STABILIZATION AND PROTECTION FROM WAVE IMPACT ALONG LAMAR BEACH ROAD. A LIVING SHORELINE COMPOSED OF SEGMENTED RIPRAP BREAKWATERS AND SHORELINE PLANTING OF COASTAL MARSH GRASSES WILL BE CONSTRUCTED.

| SHEET INDEX | |
|-------------|---------------------------------|
| SHEET NO. | TITLE |
| 1 | VICINITY - LOCATION MAP |
| 2 | OVERALL SITE PLAN |
| 3 | SEAGRASS DELINEATION |
| 4 | SITE PLAN 1 |
| 5 | SITE PLAN 2 |
| 6 | CROSS SECTION |
| 7 | BREAKWATER AND PLANTING DETAILS |



LOCATION MAP



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APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 1 OF 7

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:
 28° 8' 37.58" N
 95° 58' 31.62" W

VERIFY SCALE

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



CLIENT: ARANSAS COUNTY
 IN: ARANSAS COUNTY
 ADJACENT: SAINT CHARLES BAY
 COUNTY: ARANSAS
 STATE: TEXAS
 VERTICAL DATUM: NAVD88
 HORIZ. DATUM: TSPSC NAD83-FT

LAMAR BEACH ROAD
 HAZARD MITIGATION

VICINITY - LOCATION MAP



LEGEND

- BASELINE
- - - CONTOURS
- - - MHHW +1.3'
- ▭ PROPOSED OFFSHORE BREAKWATER
- - - CONSTRUCTION CORRIDOR
- ▨ PROPOSED PLANTING AREAS

NOTES:

1. EXISTING SEAGRASS, WETLANDS, AND OYSTER BEDS NOT SHOWN FOR CLARITY. SEE SHEETS 3, 4, & 5.
2. AERIAL PHOTOGRAPH DATED JANUARY 28, 2016 FROM TNRIS AND IS ONLY REPRESENTATIVE OF THE CONDITIONS AT THE TIME TAKEN.
3. PROPOSED BREAKWATERS AND PLANTING AREAS SHOWN ARE SUBJECT TO CHANGE BASED ON FINAL DESIGN AND SHORELINE CONDITIONS AT THE SITE AT TIME OF CONSTRUCTION.

PROPOSED NEW PLANTINGS, TYP.
SEE SHEETS 4 & 5 FOR DETAILS



PROPOSED OFFSHORE BREAKWATER, TYP.

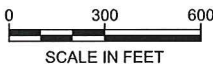
EXISTING PIER, TYP.

CONSTRUCTION CORRIDOR,
20' OFFSET FROM BREAKWATER TOE

SAINT CHARLES BAY

| TIDAL WATER LEVELS (NAVD88) | |
|-------------------------------|--------|
| MEAN HIGHER HIGH WATER (MHHW) | +1.30' |
| MEAN SEA LEVEL | +1.12' |
| MEAN LOWER LOW WATER (MLLW) | +0.93' |

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APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 2 OF 7

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



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**LAMAR BEACH ROAD
FLOOD HAZARD MITIGATION**

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

OVERALL SITE PLAN

LEGEND

-  EXISTING SEAGRASS
-  EXISTING SMOOTH CORDGRASS
-  EXISTING POTENTIAL WETLANDS
-  EXISTING OYSTER BEDS
-  CONTOURS
-  MHHW +1.3'

SWG-2019-00743

EXISTING OYSTER BEDS OCT 28 2019



12TH STREET

MHHW

8TH STREET

EXISTING SEAGRASS, TYP.

LAMAR BEACH RD

4TH STREET

EXISTING POTENTIAL WETLANDS, TYP.

EXISTING SMOOTH CORDGRASS, TYP.

SAINT CHARLES BAY

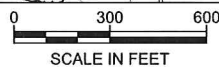
MAIN STREET

MHHW

TIDAL WATER LEVELS (NAVD88)

| | |
|-------------------------------|--------|
| MEAN HIGHER HIGH WATER (MHHW) | +1.30' |
| MEAN SEA LEVEL | +1.12' |
| MEAN LOWER LOW WATER (MLLW) | +0.93' |

PERMIT



APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 3 OF 7



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**LAMAR BEACH ROAD
FLOOD HAZARD MITIGATION**

SEAGRASS DELINEATION

OCT 28 2019

SEE SHEET 5
MATCH LINE

LEGEND

- EXISTING SEAGRASS
- EXISTING SMOOTH CORDGRASS
- EXISTING POTENTIAL WETLANDS
- EXISTING OYSTER BEDS
- BASELINE
- CONTOURS
- MHHW +1.3'
- CONSTRUCTION CORRIDOR
- PROPOSED OFFSHORE BREAKWATER
- PROPOSED PLANTINGS TYPE 1
- PROPOSED PLANTINGS TYPE 2

NOTES:

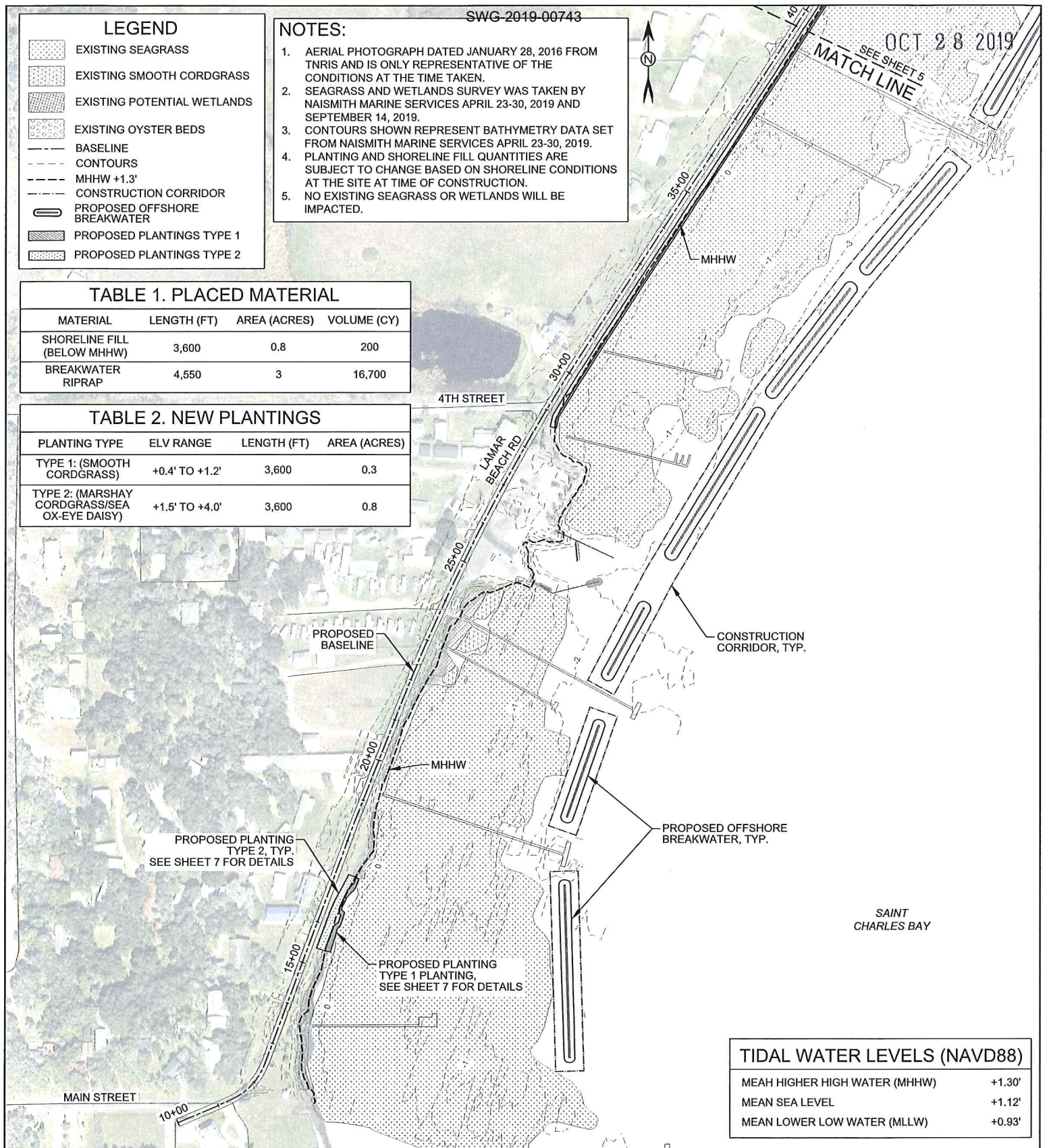
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2. SEAGRASS AND WETLANDS SURVEY WAS TAKEN BY NAISMITH MARINE SERVICES APRIL 23-30, 2019 AND SEPTEMBER 14, 2019.
3. CONTOURS SHOWN REPRESENT BATHYMETRY DATA SET FROM NAISMITH MARINE SERVICES APRIL 23-30, 2019.
4. PLANTING AND SHORELINE FILL QUANTITIES ARE SUBJECT TO CHANGE BASED ON SHORELINE CONDITIONS AT THE SITE AT TIME OF CONSTRUCTION.
5. NO EXISTING SEAGRASS OR WETLANDS WILL BE IMPACTED.

TABLE 1. PLACED MATERIAL

| MATERIAL | LENGTH (FT) | AREA (ACRES) | VOLUME (CY) |
|-----------------------------|-------------|--------------|-------------|
| SHORELINE FILL (BELOW MHHW) | 3,600 | 0.8 | 200 |
| BREAKWATER RIPRAP | 4,550 | 3 | 16,700 |

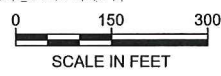
TABLE 2. NEW PLANTINGS

| PLANTING TYPE | ELV RANGE | LENGTH (FT) | AREA (ACRES) |
|--|----------------|-------------|--------------|
| TYPE 1: (SMOOTH CORDGRASS) | +0.4' TO +1.2' | 3,600 | 0.3 |
| TYPE 2: (MARSHAY CORDGRASS/SEA OX-EYE DAISY) | +1.5' TO +4.0' | 3,600 | 0.8 |



TIDAL WATER LEVELS (NAVD88)

| | |
|-------------------------------|--------|
| MEAH HIGHER HIGH WATER (MHHW) | +1.30' |
| MEAN SEA LEVEL | +1.12' |
| MEAN LOWER LOW WATER (MLLW) | +0.93' |



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APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 4 OF 7

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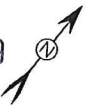
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**LAMAR BEACH ROAD
FLOOD HAZARD MITIGATION**

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SITE PLAN 1

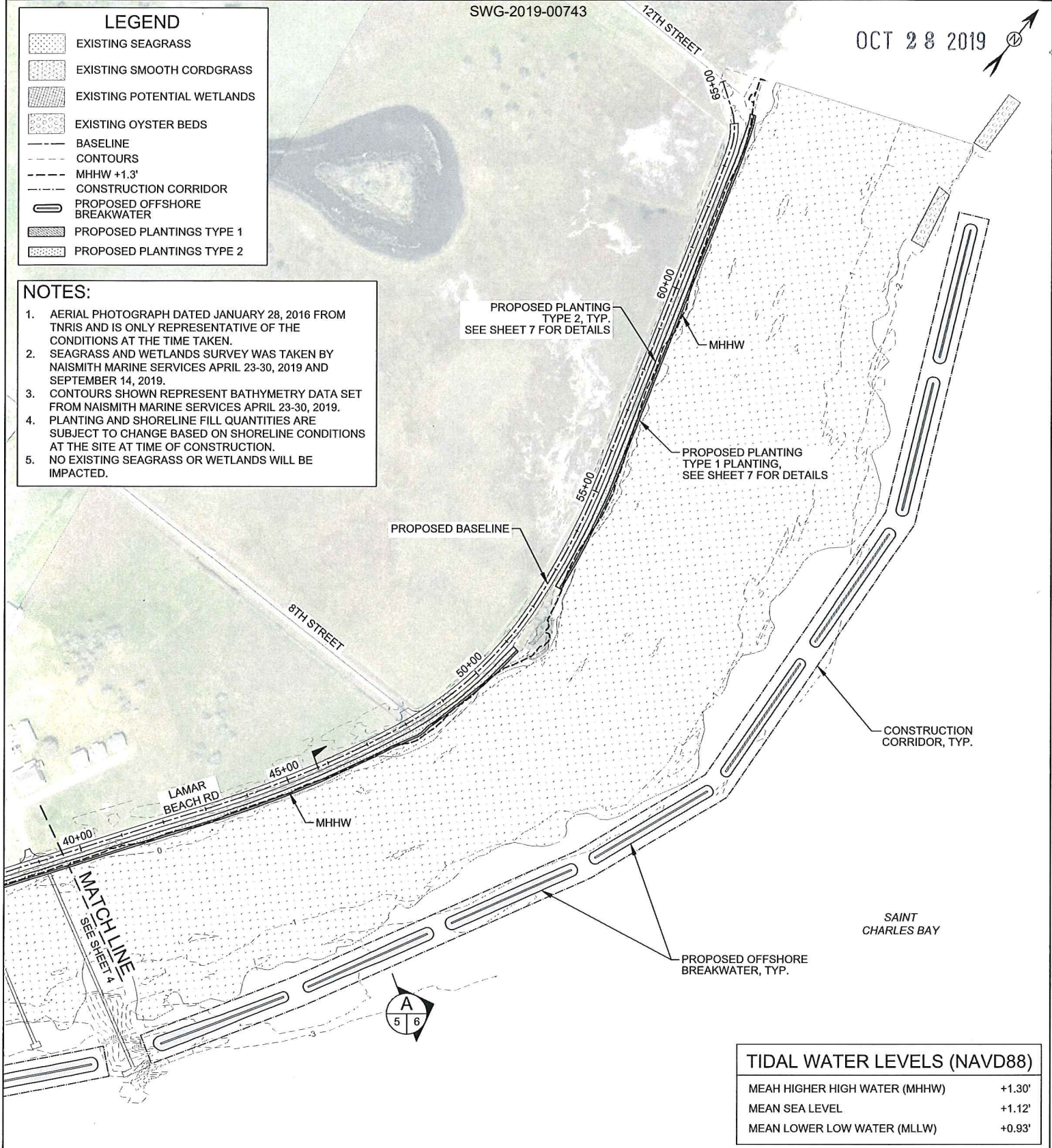


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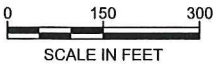
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| TIDAL WATER LEVELS (NAVD88) | |
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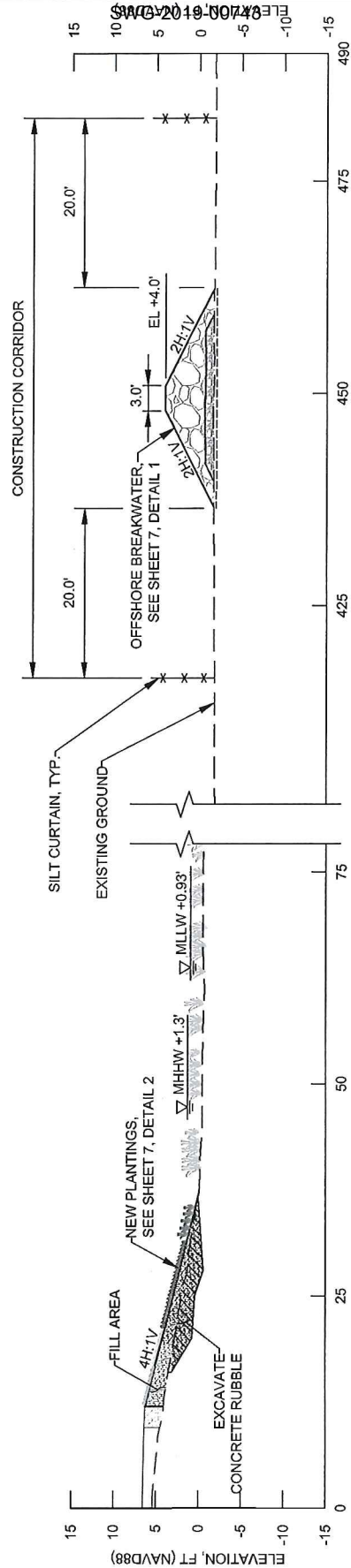
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LAMAR BEACH ROAD FLOOD HAZARD MITIGATION

SITE PLAN 2

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



| TIDAL WATER LEVELS (NAVD88) | |
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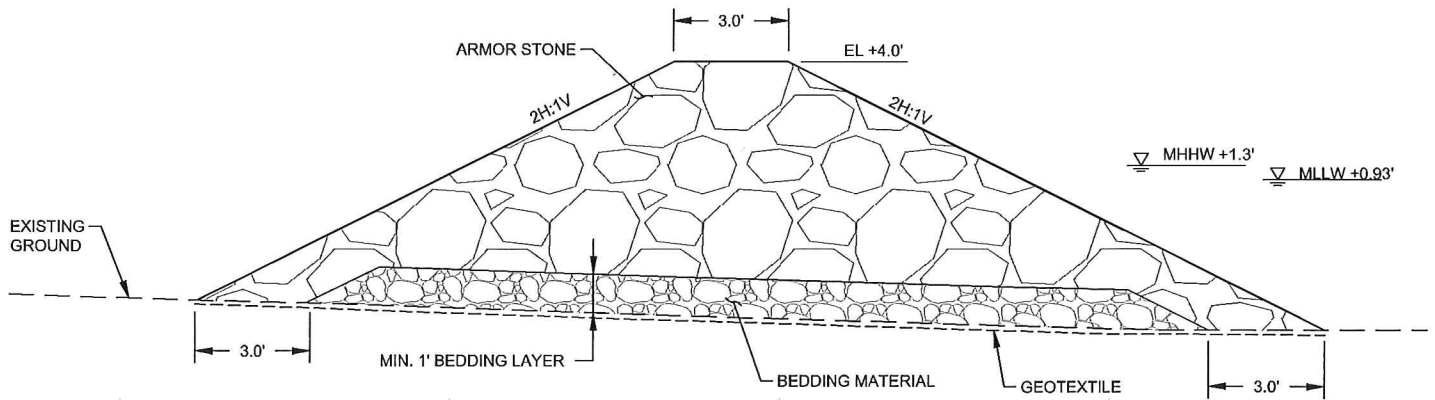
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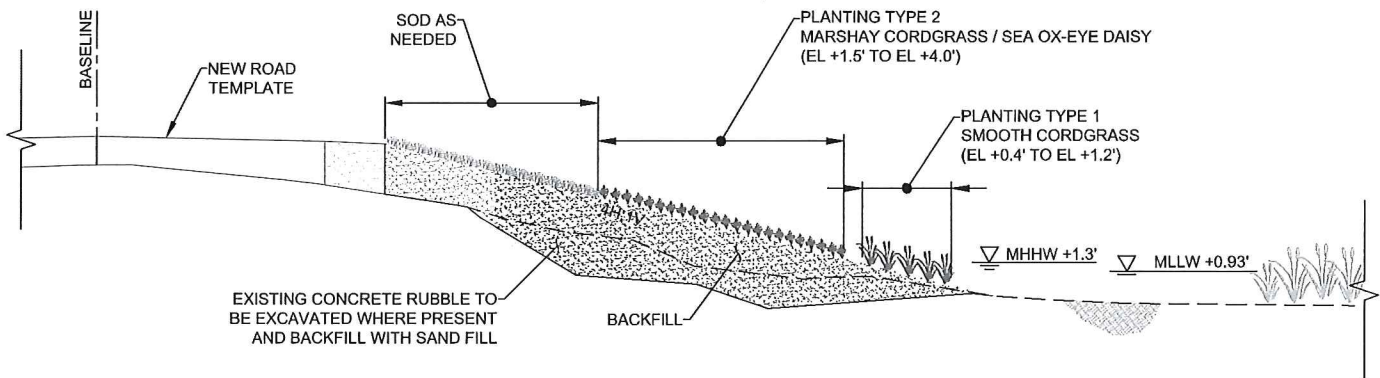
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**LAMAR BEACH ROAD
 FLOOD HAZARD MITIGATION**

CROSS SECTION



DETAIL 1
OFFSHORE BREAKWATER
0 2.5 5
SCALE IN FEET



DETAIL 2
PLANTINGS
0 4 8
SCALE IN FEET

PERMIT

APPLICANT: ARANSAS COUNTY

OCTOBER 25, 2019 SHEET 7 OF 7

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FLOOD HAZARD MITIGATION

BREAKWATER AND PLANTING DETAILS

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0 1" SCALE BAR