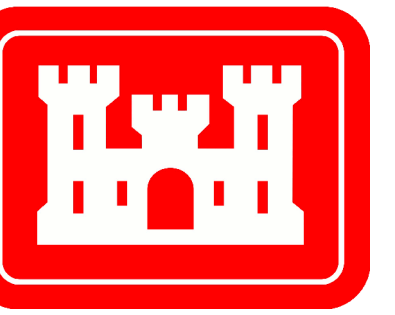
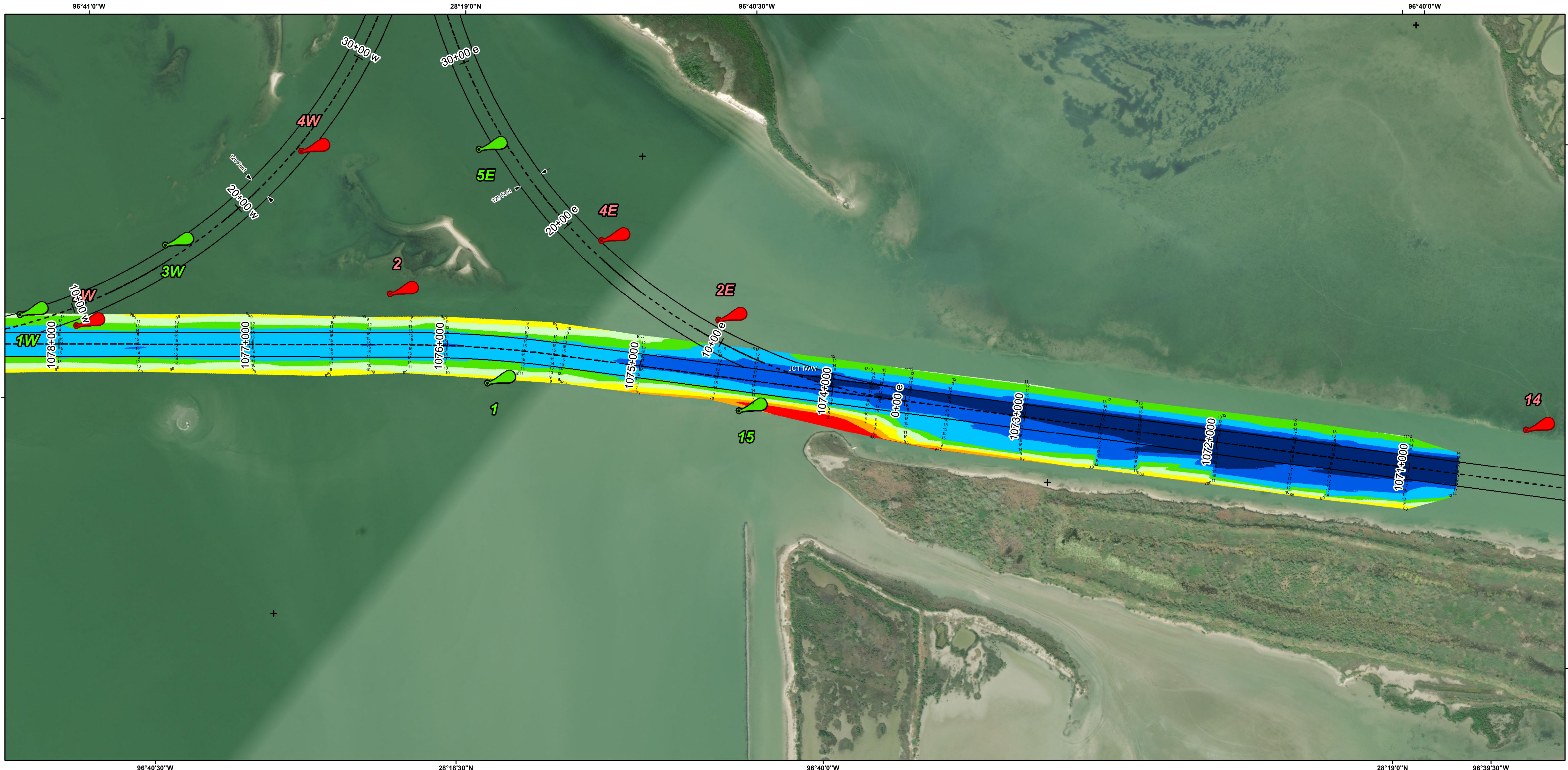
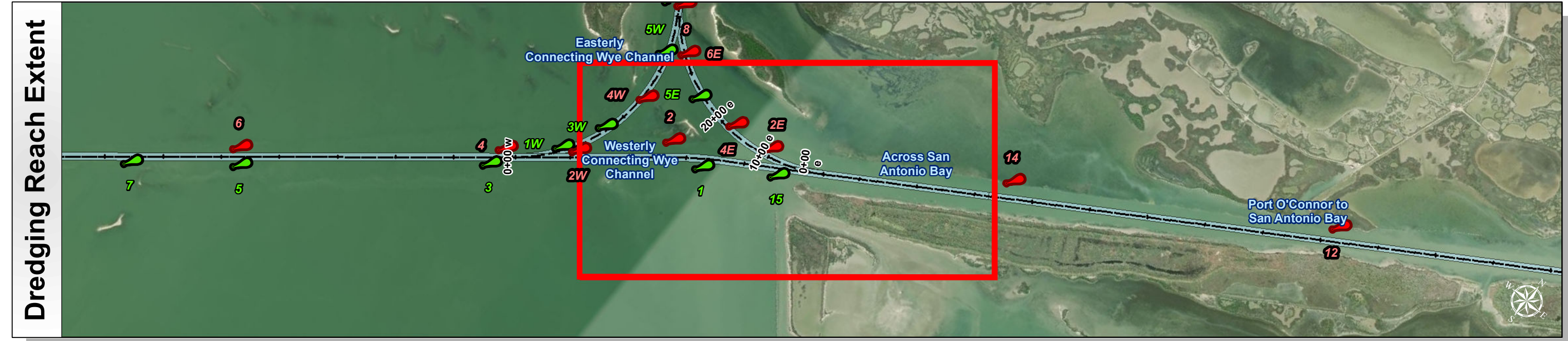
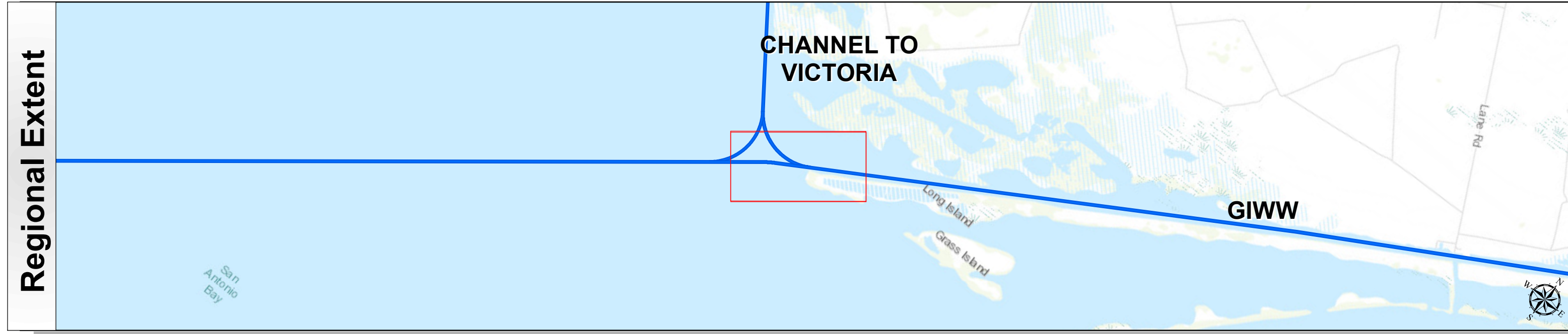
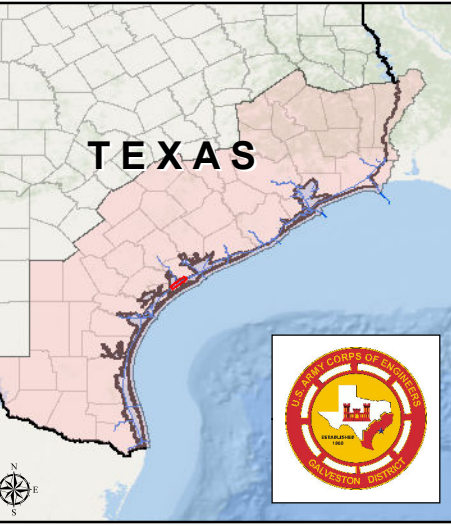


# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



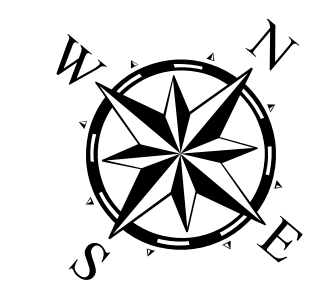
<b>Channel Features</b>	<b>Aids to Navigation</b>	<b>MLLW</b>
<ul style="list-style-type: none"> <li>Channel Toe</li> <li>Channel Center Line</li> <li>Channel Station Lines</li> <li>Channel Dimensions</li> </ul>	<ul style="list-style-type: none"> <li>Green Side Aids</li> <li>Red Side Aids</li> <li>Lights</li> </ul>	<p>NOAA Bathymetry (DREDGING REACH EXTENT)</p>

**NOTES:**

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet  
Projection: Lambert Conformal Conic /Datum: North American 1983

Dredging Reach Extent  
0 0.3 0.6 1.2 Miles

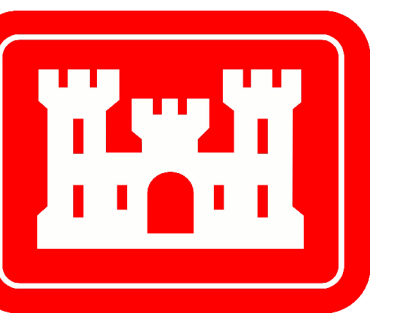
Hydrographic Survey Extent  
0 260 520 1,040 Feet

Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 153 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

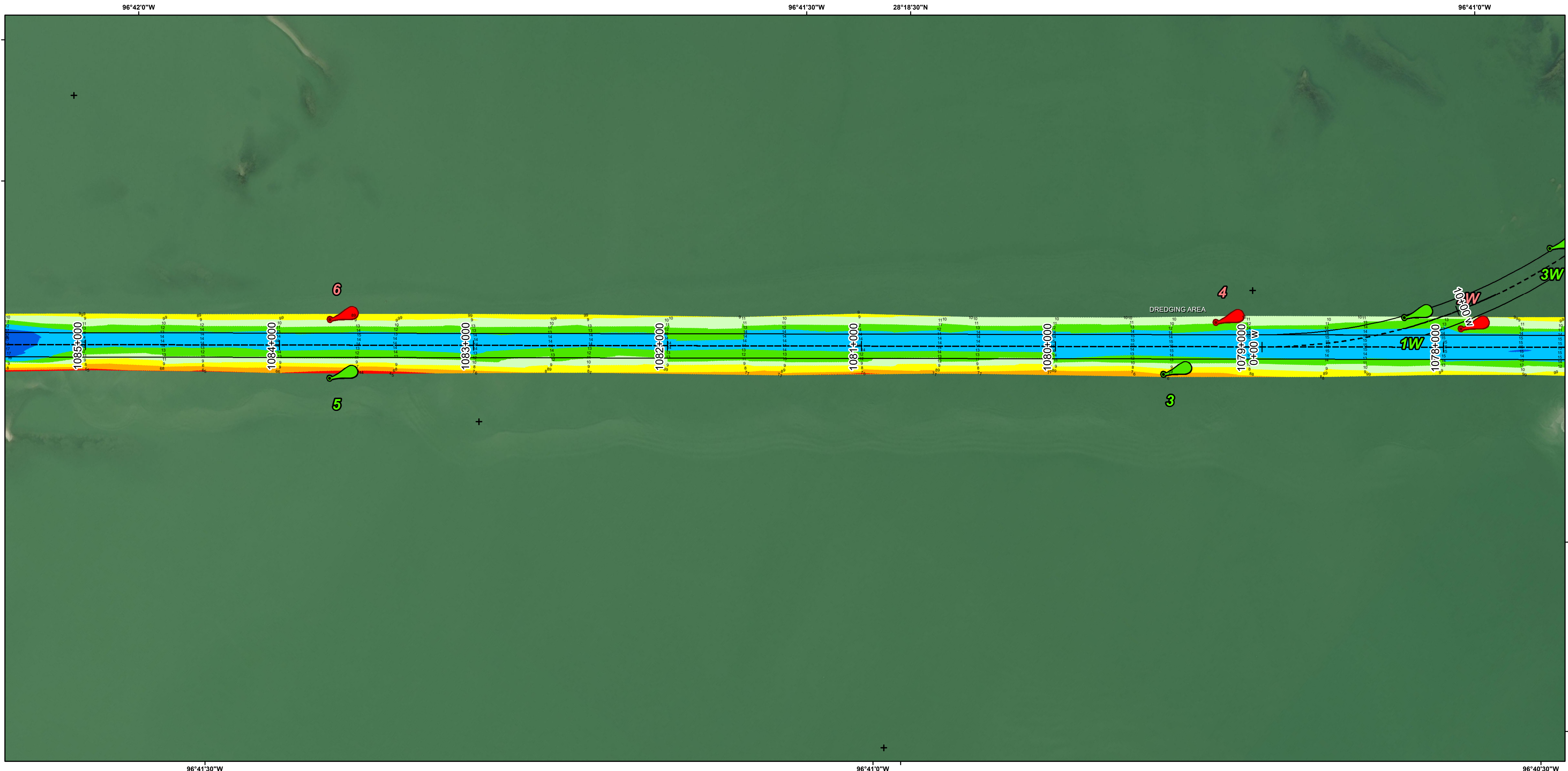
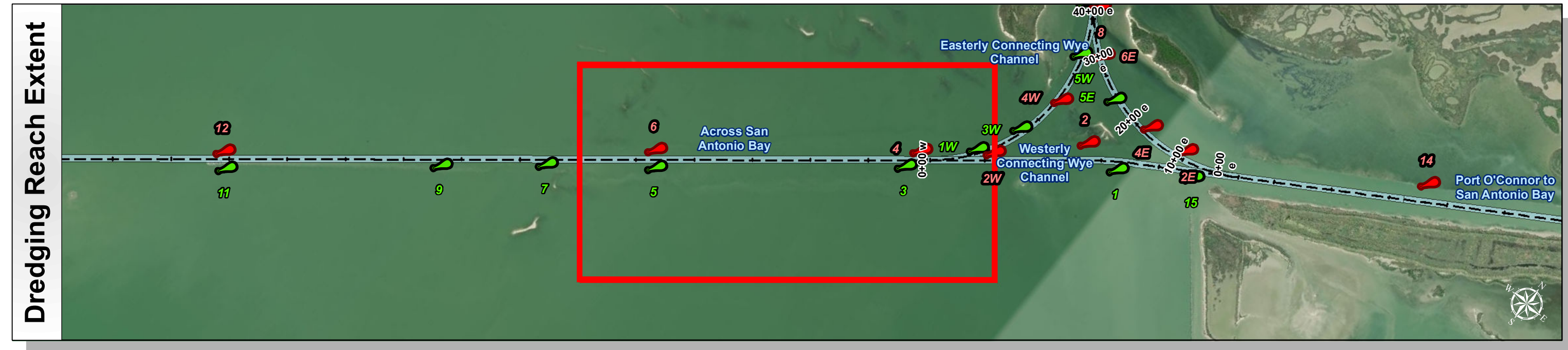
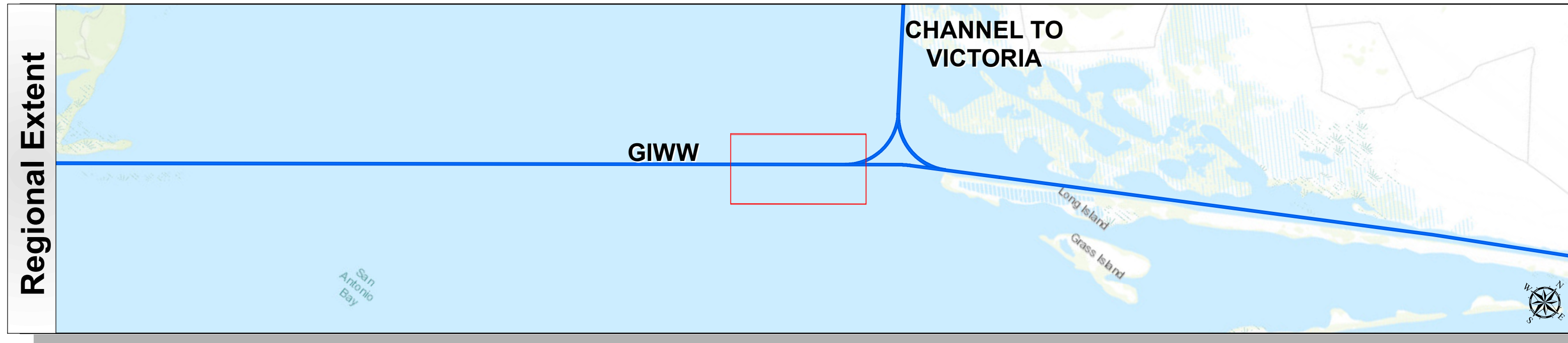
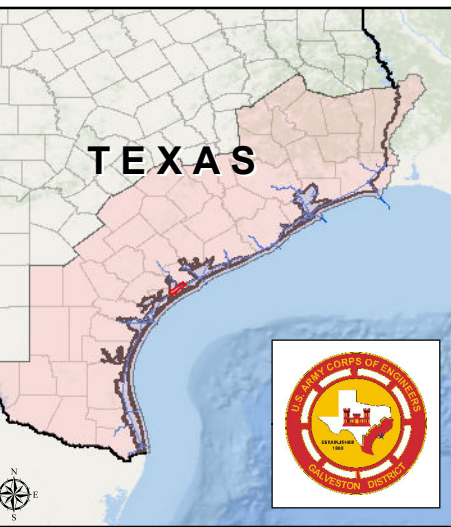
**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
GIWW  
, TEXAS

# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



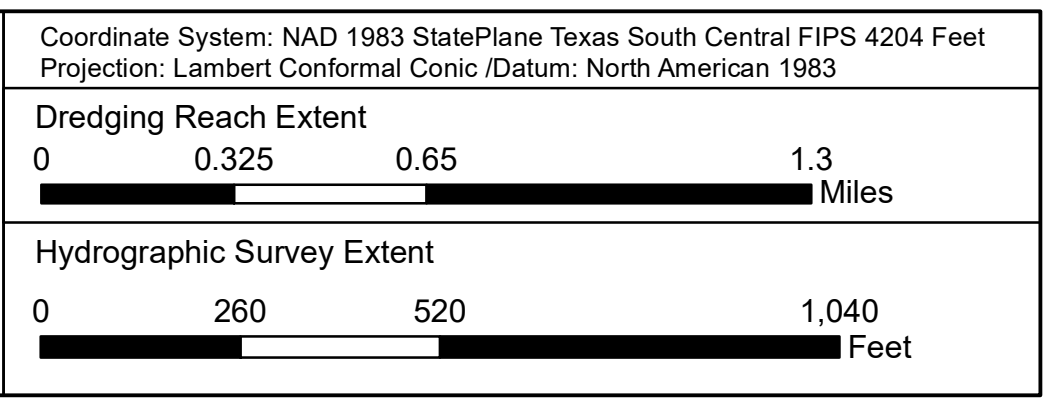
<b>Channel Features</b>	<b>Aids to Navigation</b>	<b>MLLW</b>
— Channel Toe	Green Side Aids	0 - 4
- - - Channel Center Line	Red Side Aids	4 - 6
— Channel Station Lines	Lights	6 - 8
↔ Channel Dimensions		8 - 10
		10 - 12
		12 - 14
		14 - 16
		16 - 18
		< 18
		<b>NOAA Bathymetry (DREDGING REACH EXTENT)</b>
		0 - 10
		10 - 15
		15 - 20
		20 - 25
		25 - 30
		30 - 50

**NOTES:**

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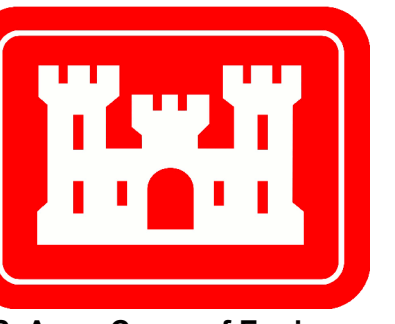


Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 154 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

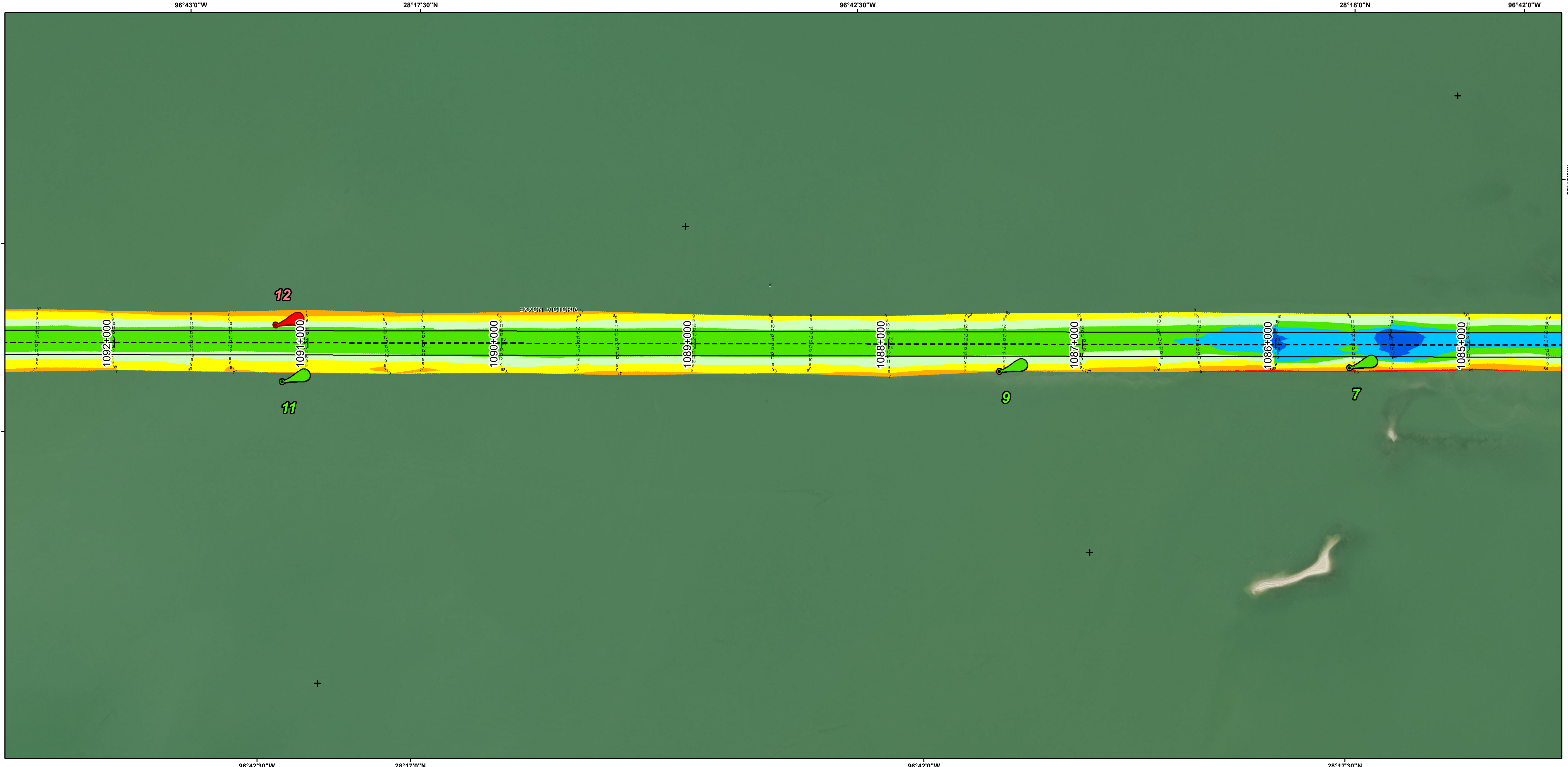
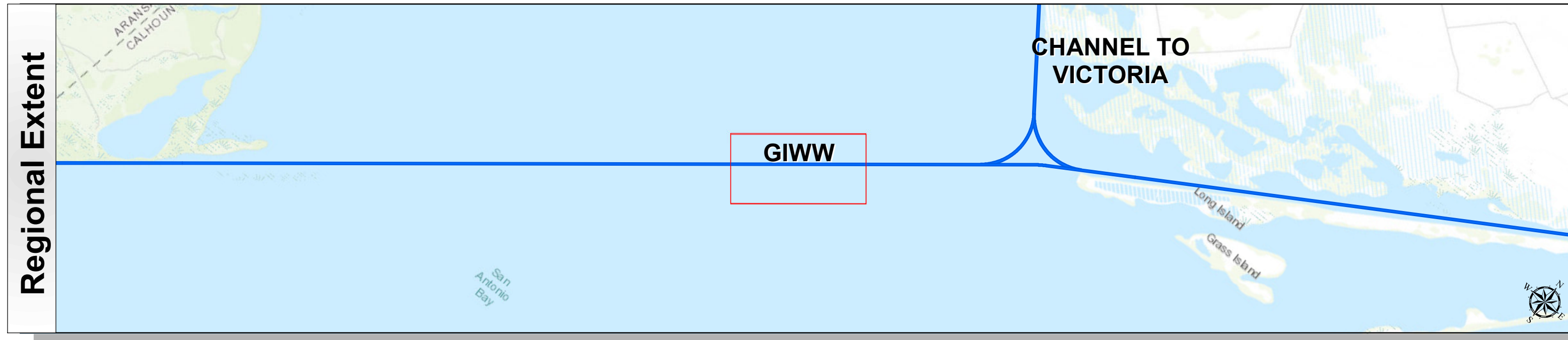
**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
GIWW  
, TEXAS

# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 155 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

**Channel Features**

- Channel Toe
- Channel Center Line
- Channel Station Lines
- Channel Dimensions

**Aids to Navigation**

- Green Side Aids
- Red Side Aids
- Lights

**MLLW**

0 - 4  
4 - 6  
6 - 8  
8 - 10  
10 - 12  
12 - 14  
14 - 16  
16 - 18  
< 18

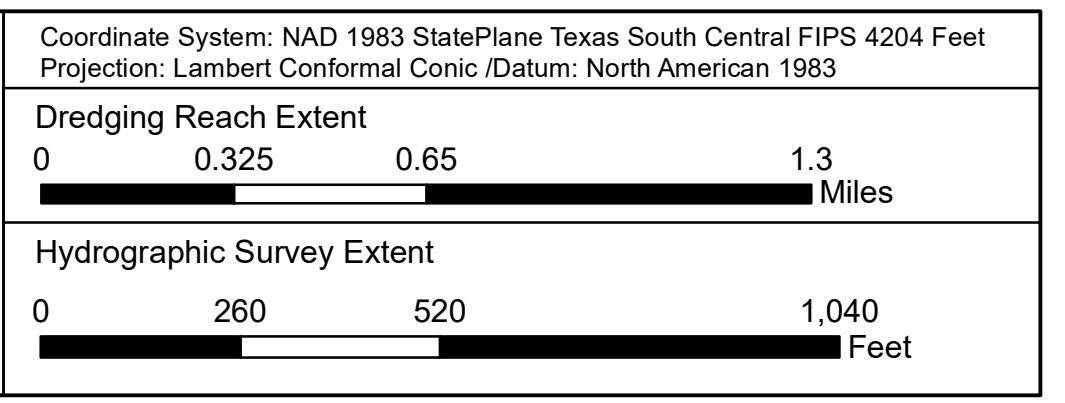
**NOAA Bathymetry (DREDGING REACH EXTENT)**

0 - 10 10 - 15 15 - 20 20 - 25 25 - 30 30 - 50

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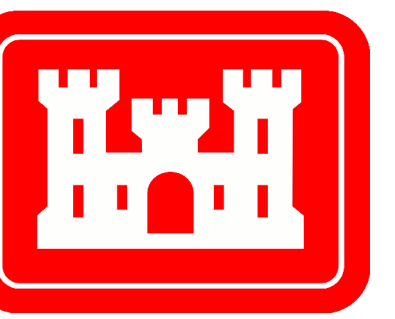
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community  
Sources: Esri, HERE, Garmin, Intermap, Increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community  
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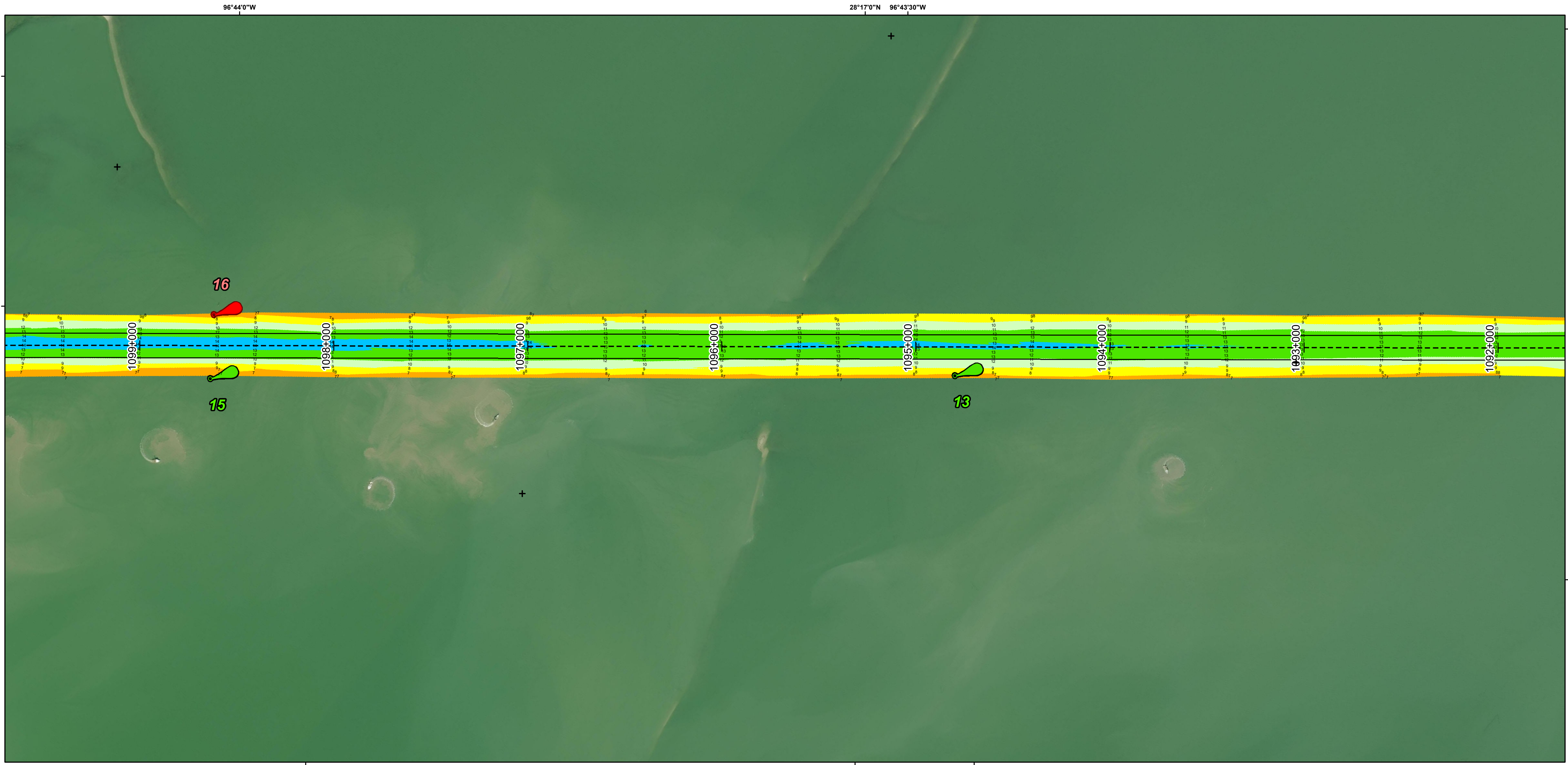
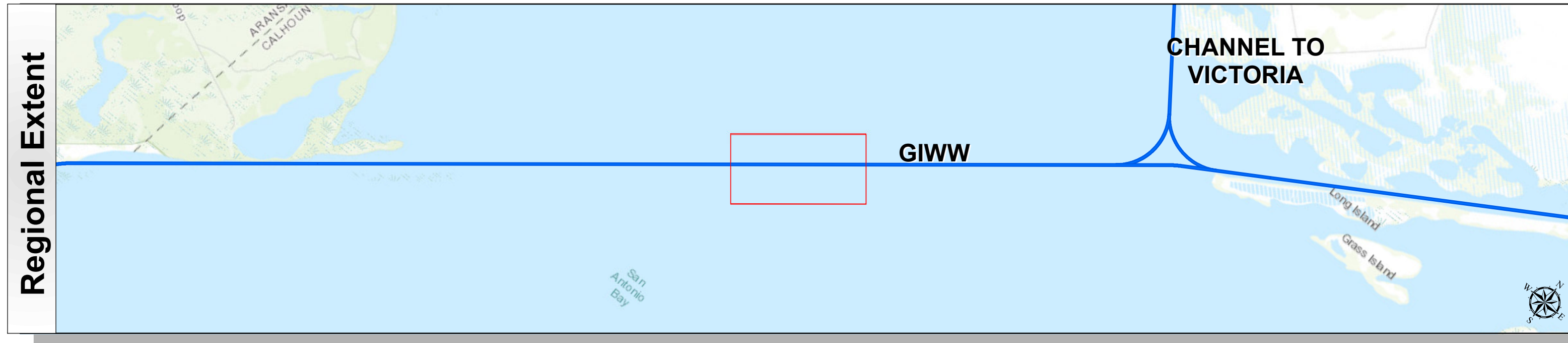
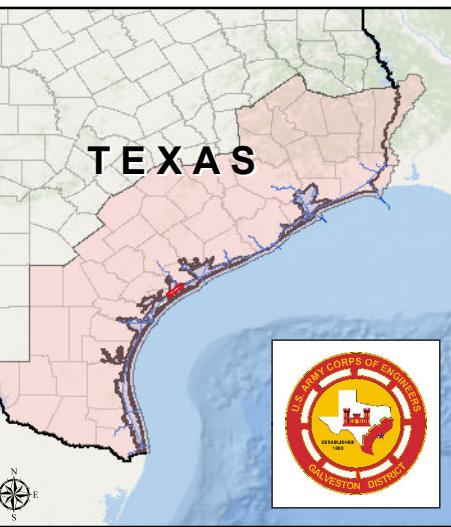
**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
GIWW  
, TEXAS

# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



Channel Features	Aids to Navigation	MLLW
Channel Toe	Green Side Aids	0 - 4
Channel Center Line	Red Side Aids	4 - 6
Channel Station Lines	Lights	6 - 8
Channel Dimensions		8 - 10
		10 - 12
		12 - 14
		14 - 16
		16 - 18
		< 18
		NOAA Bathymetry (DREDGING REACH EXTENT)
		0 - 10
		10 - 15
		15 - 20
		20 - 25
		25 - 30
		30 - 50

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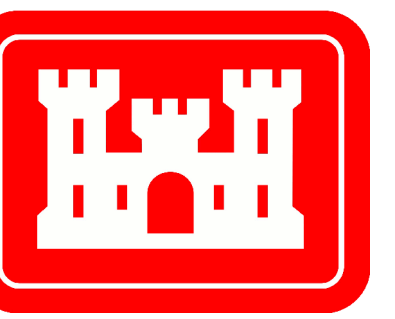
Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet Projection: Lambert Conformal Conic / Datum: North American 1983		
Dredging Reach Extent	0	0.325
	0.65	1.3
	Miles	
Hydrographic Survey Extent	0	260
	520	1,040
	Feet	

Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 156 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
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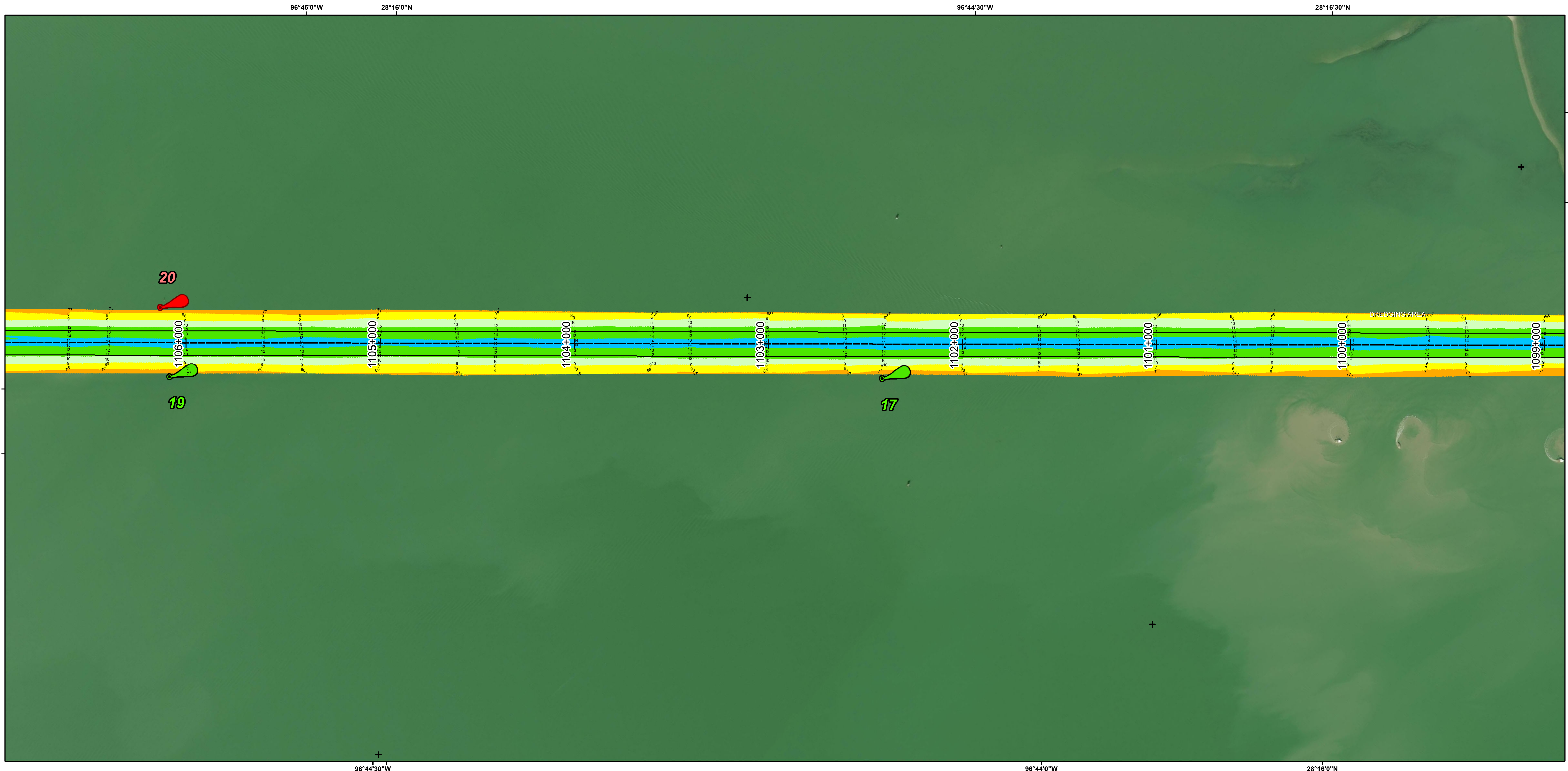
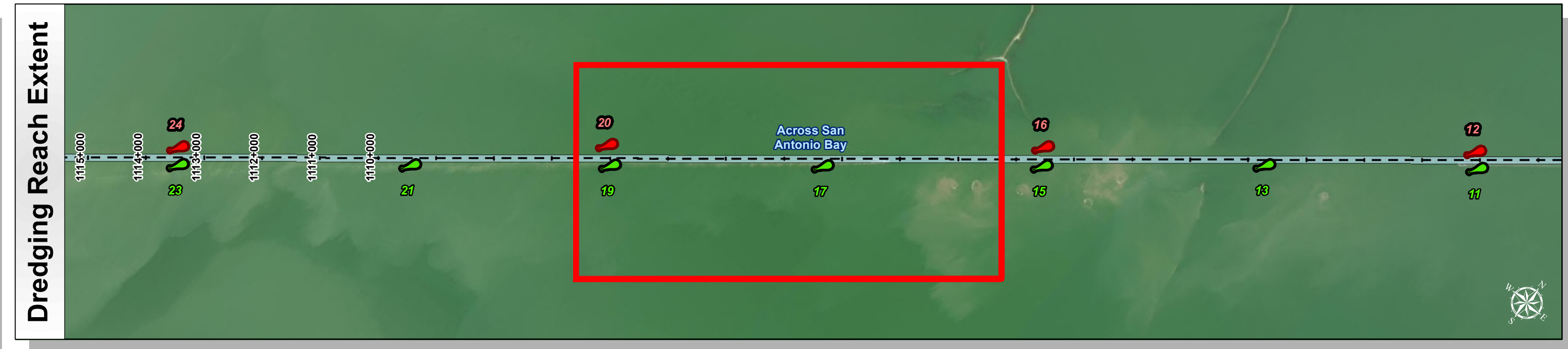
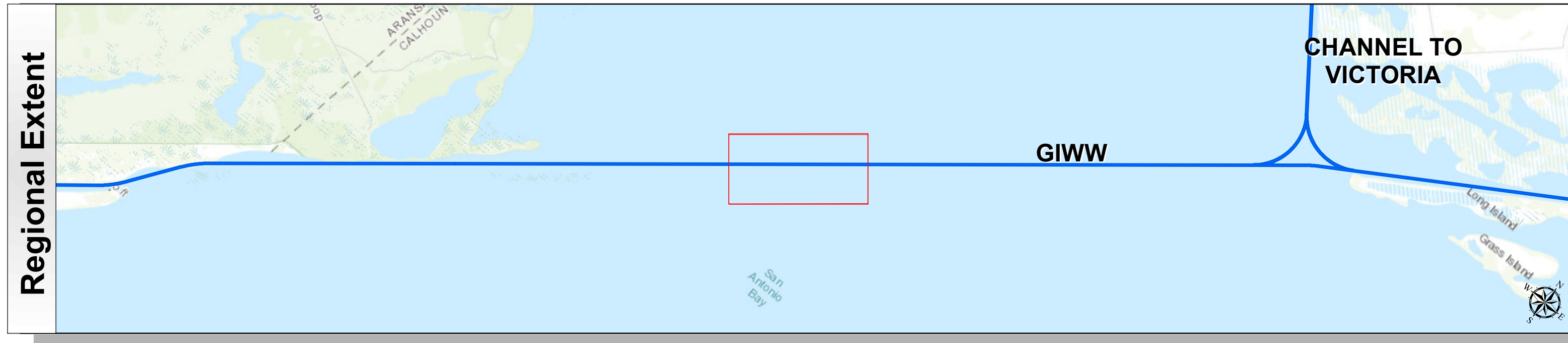
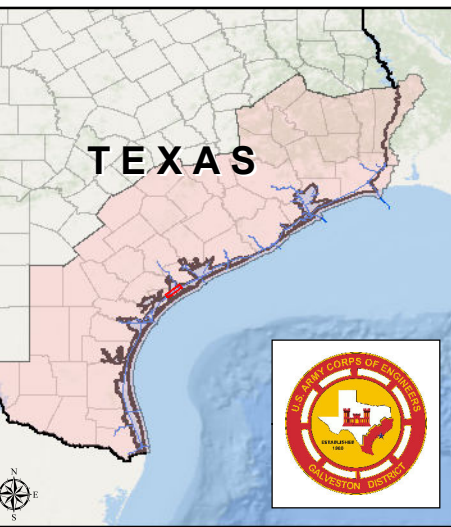
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U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
GIWW  
, TEXAS

# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



<b>Channel Features</b>	<b>Aids to Navigation</b>	<b>MLLW</b>
<ul style="list-style-type: none"> <li>Channel Toe</li> <li>Channel Center Line</li> <li>Channel Station Lines</li> <li>Channel Dimensions</li> </ul>	<ul style="list-style-type: none"> <li>Green Side Aids</li> <li>Red Side Aids</li> <li>Lights</li> </ul>	<p>NOAA Bathymetry (DREDGING REACH EXTENT)</p>

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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet  
Projection: Lambert Conformal Conic /Datum: North American 1983

Dredging Reach Extent  
0 0.325 0.65 1.3 Miles

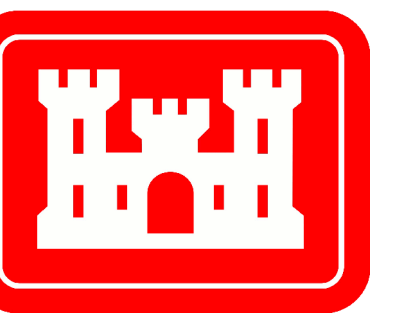
Hydrographic Survey Extent  
0 260 520 1,040 Feet

Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 157 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

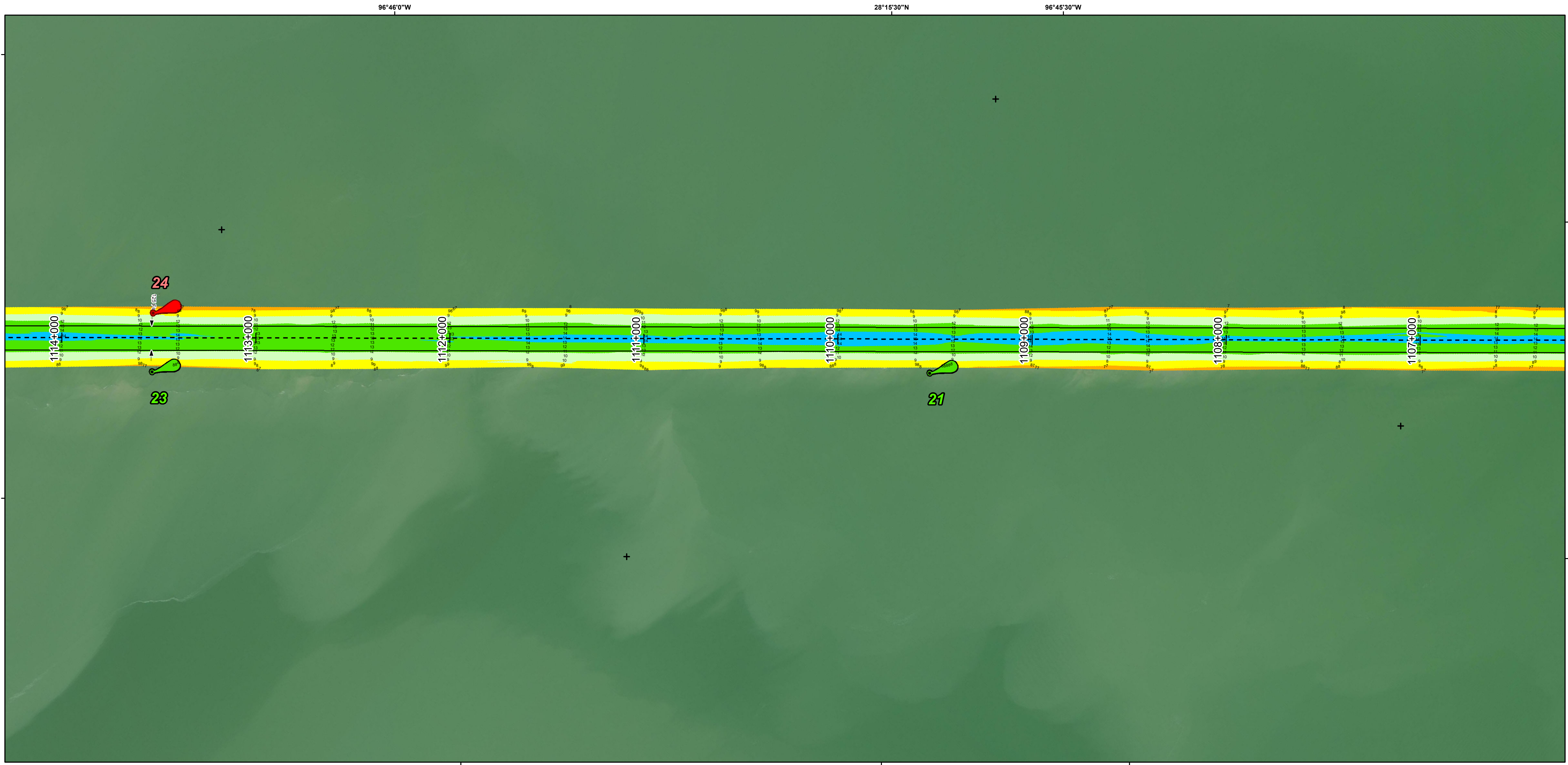
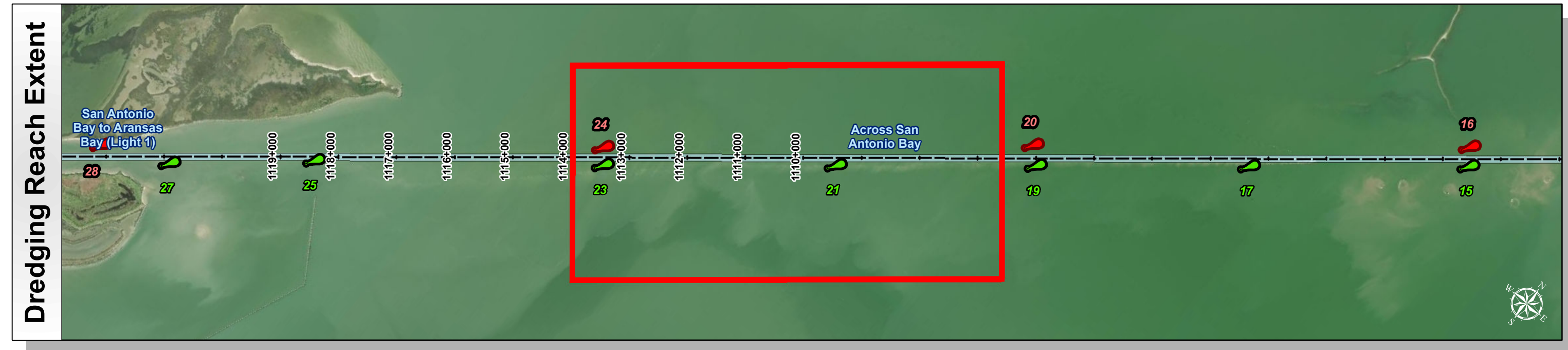
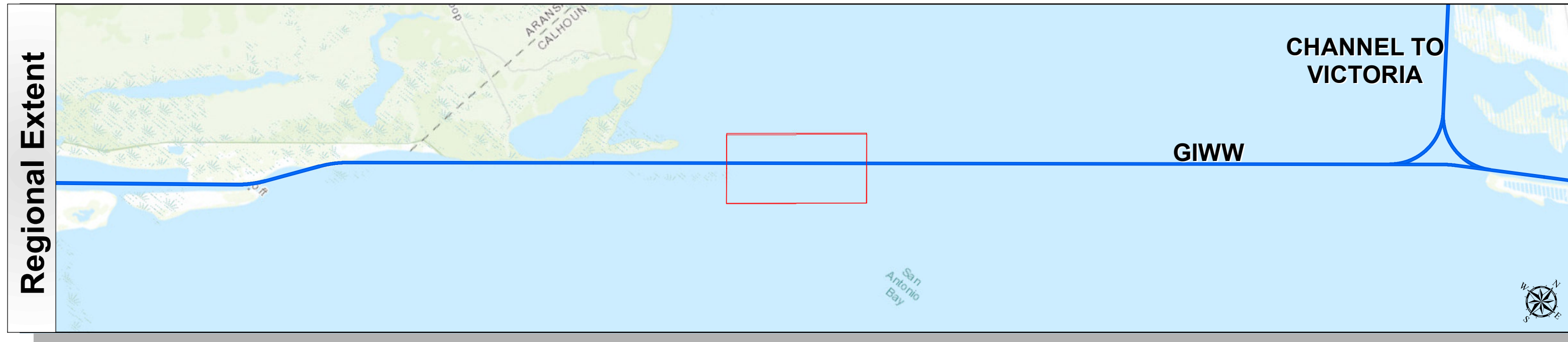
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U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

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# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



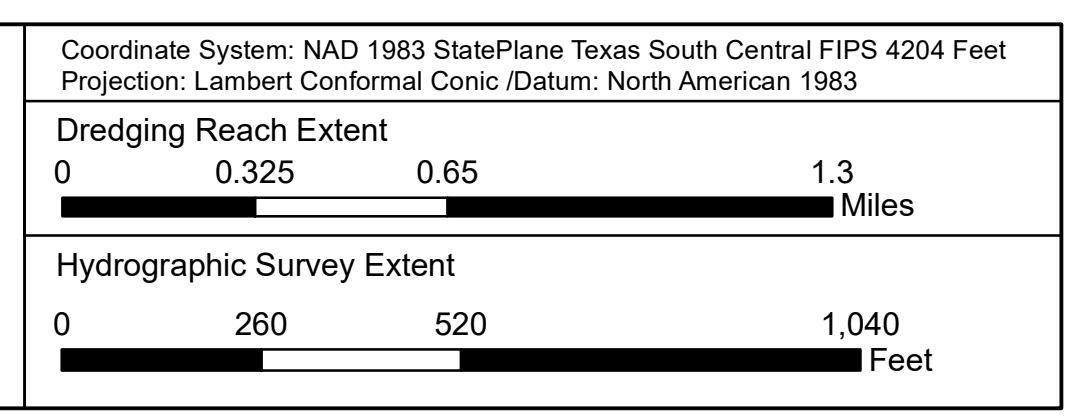
Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 158 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

Channel Features	Aids to Navigation	MLLW
<ul style="list-style-type: none"> <li>Channel Toe</li> <li>Channel Center Line</li> <li>Channel Station Lines</li> <li>Channel Dimensions</li> </ul>	<ul style="list-style-type: none"> <li>Green Side Aids</li> <li>Red Side Aids</li> <li>Lights</li> </ul>	<p>NOAA Bathymetry (DREDGING REACH EXTENT)</p> <p>0 - 10   10 - 15   15 - 20   20 - 25   25 - 30   30 - 50</p>

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- THIS PROJECT WAS DESIGNED BY THE GALVESTON DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS AND SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER1110-1-8152.
- THE INFORMATION DEPICTED ON THIS SURVEY MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME. THESE CONDITIONS ARE SUBJECT TO RAPID CHANGE DUE TO SHOALING EVENTS. A PRUDENT MARINER SHOULD NOT RELY EXCLUSIVELY ON THE INFORMATION PROVIDED HERE. REQUIRED BY 33 CFR 209.325
- FOR THE MOST UP TO DATE INFORMATION PLEASE CHECK OUR WEBSITE AT: [HTTP://WWW.SWG.USACE.ARMY.MIL/MISSIONS/NAVIGATION/HYDROGRAPHICSURVEYS/](http://www.swg.usace.army.mil/missions/navigation/hydrographicsurveys/)
- NOAA BATHYMETRY CONTOURS PRODUCED FROM HISTORIC BATHYMETRIC (HYDROGRAPHIC) SURVEYS CONDUCTED BY THE NOAA NATIONAL OCEAN SERVICE COAST SURVEY, AVAILABLE FROM THE NATIONAL GEOPHYSICAL DATA CENTER. SURVEYS VARY AS TO SOUNDING DENSITY, ACCURACY OF DEPTH, ACCURACY OF NAVIGATION, ZERO DATUM, DATE OF SURVEY AND TYPE OF INSTRUMENTATION.

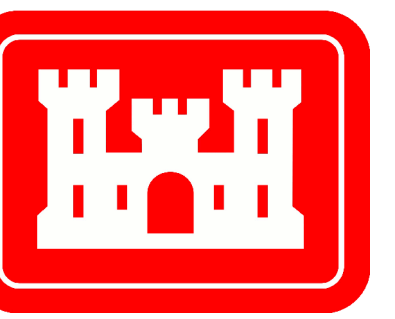
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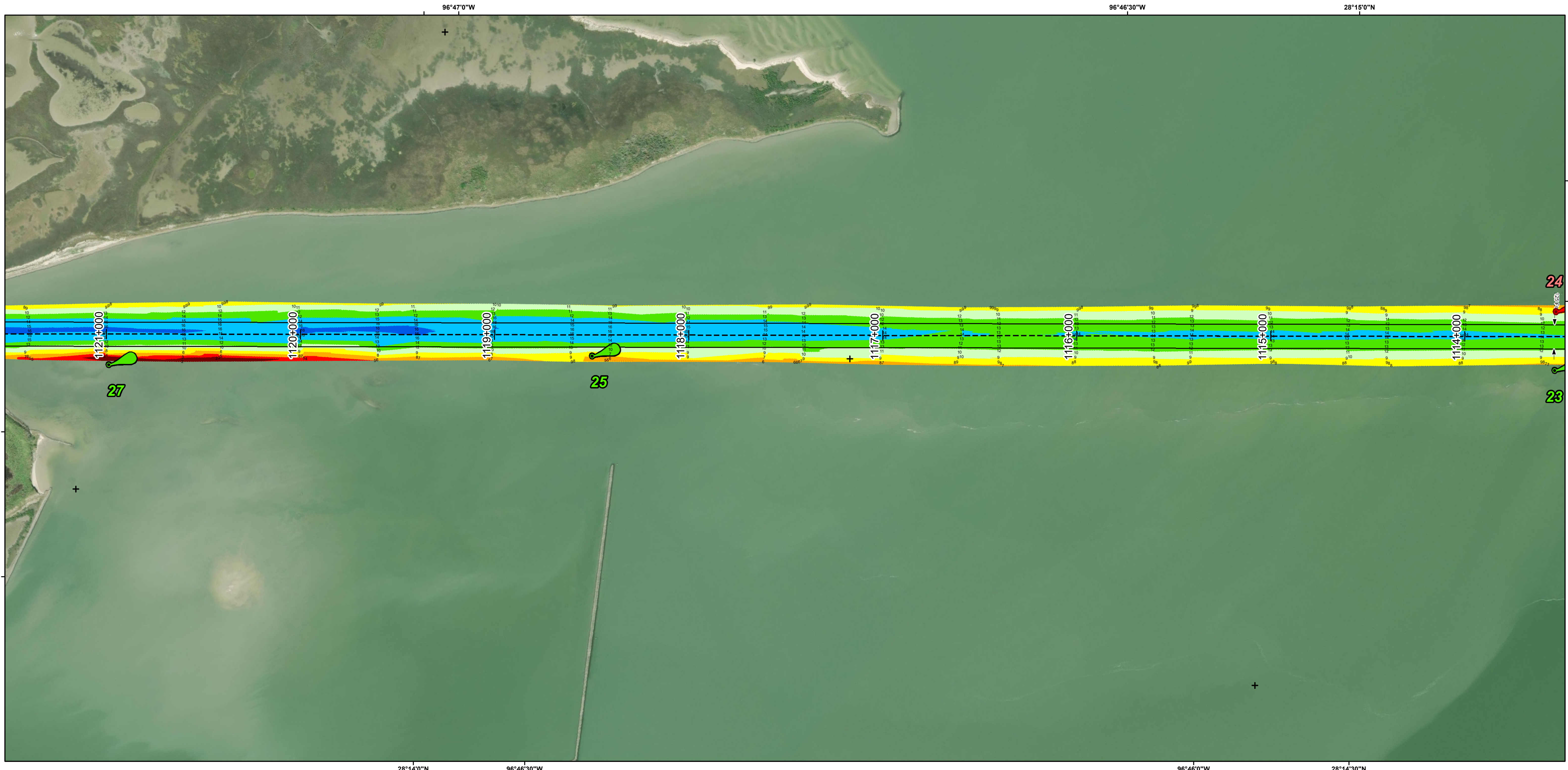
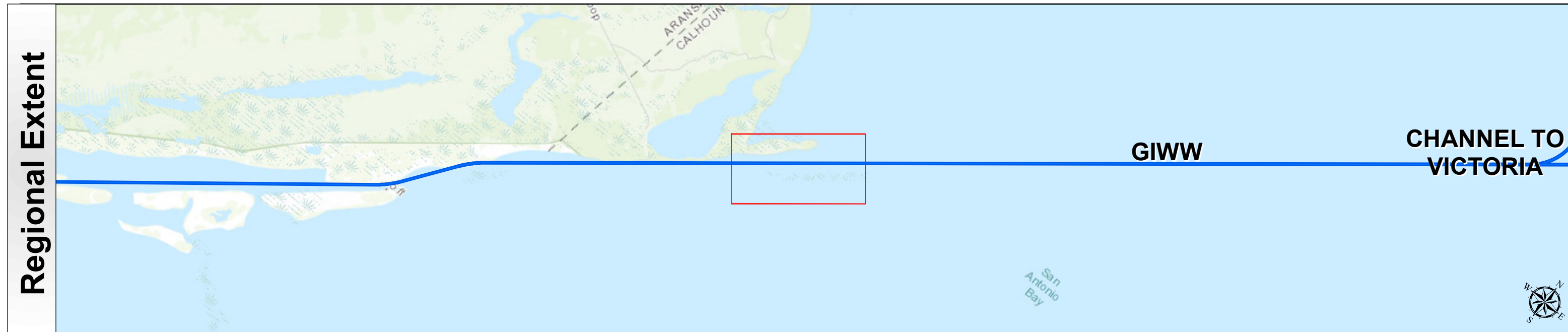
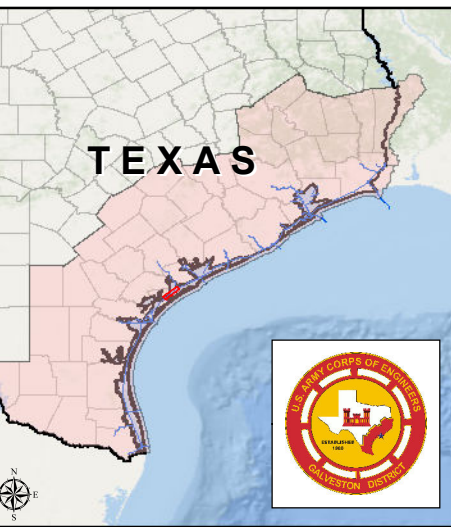
**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
GIWW  
, TEXAS

# Gulf Intracoastal Waterway: Across San Antonio Bay



U.S. Army Corps of Engineers  
Galveston District



<b>Channel Features</b>	<b>Aids to Navigation</b>	<b>MLLW</b>
— Channel Toe	Green Side Aids	0 - 4
- - - Channel Center Line	Red Side Aids	4 - 6
— Channel Station Lines	Lights	6 - 8
↔ Channel Dimensions		8 - 10
		10 - 12
		12 - 14
		14 - 16
		16 - 18
		< 18
		<b>NOAA Bathymetry (DREDGING REACH EXTENT)</b>
		0 - 10
		10 - 15
		15 - 20
		20 - 25
		25 - 30
		30 - 50

**NOTES:**

- HORIZONTAL COORDINATES ARE REFERENCED TO TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE NAD83 US SURVEY FEET.
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Coordinate System: NAD 1983 StatePlane Texas South Central FIPS 4204 Feet  
Projection: Lambert Conformal Conic /Datum: North American 1983

**Dredging Reach Extent**  
0 0.325 0.65 1.3 Miles

**Hydrographic Survey Extent**  
0 260 520 1,040 Feet

Survey Date(s): 06 November 2019	Authorized Depth: -14ft.
Page: 159 of 190	Side Slope Ratio: (Rise : Run)
Map:	Additional Imagery: © DigitalGlobe Inc.
Scale: 1:3,000	Print Date: 11/14/2019
Mapped by: m3odmmg	
Additional Info:	

**HYDROGRAPHIC SURVEY**  
U.S. ARMY ENGINEER DISTRICT  
CORPS OF ENGINEERS  
GALVESTON, TEXAS

**Station: 1070+753.30 to 1121+000**  
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, TEXAS