

NOTES:

- ALL COORDINATES REFER TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (#4205), AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, 1983 DATUM, US FEET. ALL BEARINGS ARE LEFT GRID BEARINGS AND ALL DISTANCES ARE IN FEET. THE SCALE FACTOR IS 1.0000177 AND MAPPING ANGLE IS 00d 30' 20".
- COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS, VERTICAL DATUM: NAVD88

REFERENCE MONUMENT "SK-130"
 N: 17,190,290.73
 E: 1,344,264.39
 ELEV: 6.24' NAVD88

REFERENCE MONUMENT "LEXINGTON"
 N: 17,186,072.50
 E: 1,341,742.24
 ELEV: 7.85' NAVD88

REFERENCE MONUMENT "90008C"
 N: 17,186,515.85
 E: 1,342,501.89
 ELEV: 4.91' NAVD88

TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Do. Nueces Co. Sketch No. 18
 By: James M. Naismith
 See Report

STATE BOUNDARY LINE TABLE

LINE	BEARING	DISTANCE	VARAS
L1	N 25°24'25" E	84.71'	30.50v
L2	N 25°24'25" E	35.28'	12.70v
L3	N 25°45'31" E	361.92'	130.29v
L4	N 27°18'51" E	712.03'	256.33v
L5	N 27°15'26" E	238.96'	86.05v
L6	N 31°44'11" E	181.30'	65.27v
L7	N 29°44'34" E	461.26'	166.05v
L8	N 31°56'16" E	217.15'	78.18v
L9	N 34°57'40" E	250.36'	90.13v
L10	N 33°40'07" E	664.47'	239.21v
L11	S 80°35'03" E	65.00'	23.40v
L12	S 71°40'37" E	32.89'	11.77v
L13	N 78°46'06" E	52.02'	18.73v
L14	N 31°46'36" E	34.57'	12.45v
L15	N 00°22'01" W	24.17'	8.70v
L16	N 39°16'17" W	102.58'	36.93v
L17	N 08°53'57" E	40.33'	14.52v
L18	N 23°02'49" E	100.01'	36.00v
L19	N 27°02'02" E	100.13'	36.05v
L20	N 24°56'57" E	137.30'	49.43v
L21	N 32°48'25" E	289.25'	107.73v
L22	N 33°14'19" E	108.61'	39.10v
L23	N 06°40'18" W	24.01'	8.65v
L24	N 32°04'24" E	243.89'	87.80v
L25	N 07°02'13" E	40.71'	14.65v
L26	N 33°32'25" E	30.92'	11.13v
L27	S 58°21'12" E	30.86'	11.00v
L28	N 31°36'48" E	300.00'	108.00v
L29	N 58°23'14" W	18.26'	6.57v
L30	N 33°30'13" E	520.62'	187.42v
L31	N 31°55'29" E	309.15'	111.29v
L32	N 00°50'36" W	44.60'	16.06v
L33	N 33°56'59" E	573.23'	206.36v
L34	N 35°38'53" E	134.31'	44.70v
L35	N 21°35'10" E	202.94'	73.06v
L36	N 00°17'18" E	51.26'	18.46v
L37	N 14°28'45" E	75.02'	27.01v
L38	N 25°47'42" E	59.84'	21.54v

3. ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE R8.

4. STATE OWNERSHIP BOUNDARY BASED ON "MEAN HIGH WATER LINE AT 0.72' ELEVATION", MAY 10-13, 1977, NORTH BEACH, NUECES COUNTY, TEXAS AS SHOWN ON GLO ROLLED SKETCH 60. OWNERSHIP BOUNDARY AT BLOCK 18 DETERMINED BY FINAL JUDGMENT DATED AUGUST 11, 1978 - GLO SKETCH FILE 48. CURRENT MEAN HIGHER HIGH WATER (MHHW) ELEVATION OF 1.1' WAS DETERMINED FROM TCOON TIDE STATION 008: USS 'LEXINGTON'.

5. TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.

6. UPLAND TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS. LINES ARE SHOWN FOR REFERENCE ONLY. BROOKLYN ADDITION SHOWN AS RECORDED IN VOLUME (A) PGS 30-33

7. EROSION RESPONSE WORK: GLO COASTAL LEASE 84-0004
 A) CITY OF CORPUS CHRISTI BEACH NOURISHMENT PROGRAM.

8. REFERENCE ACCOMPANYING REPORT DATED MAY, 2014 AND FILL MAP - SHEET 2 OF 2 FOR DATED INFORMATION.

9. BACKGROUND IMAGE: LAMMON AERIAL PHOTOGRAPHY, 1977 FOR REFERENCE ONLY.

NOTICE: THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE, FOR THE PURPOSE OF EVIDENCING THE LOCATION OF THE SHORELINE IN THE AREA DEPICTED IN THIS SURVEY AS THAT SHOWN EXISTED BEFORE COMMENCEMENT OF EROSION RESPONSE ACTIVITY, AS REQUIRED BY CHAPTER 33, NATURAL RESOURCES CODE. THE LINE DEPICTED ON THIS SURVEY FIXES THE SHORELINE FOR THE PURPOSE OF LOCATING A SHORELINE BOUNDARY, SUBJECT TO MOVEMENT LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

34.7 ACRES OF FILL AND/OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND IS SHOWN ON FILL MAP - SHEET 2 OF 2. CITY OF CORPUS CHRISTI ACTIVELY NOURISHES THE BEACH AT THE LITTORAL BOUNDARY OF CORPUS CHRISTI UNDER GLO COASTAL LEASE 84-0004.

SURVEYED: FEBRUARY 27, MARCH 4, APRIL 16, AND MAY 19, 2014
 SURVEY PERSONNEL:
 JAMES M. NAISMITH
 B.S. GAMBILL
 J.Z. GIESSEL

JAMES M. NAISMITH
 LICENSED STATE LAND SURVEYOR

JMN 8/4/2014

NORTHING	EASTING	DESCRIPTION
17193475.08	1346636.84	CL 84-0004 NW COR
17193107.89	1347233.05	CL 84-0004 NE COR
17186506.37	1343187.36	CL 84-0004 SE COR
17186768.44	1342741.83	CL 84-0004 SW COR
17186981.31	1342872.93	CL 84-0004 COR
17187086.19	1342702.64	CL 84-0004 COR
17187262.14	1342971.28	R-S-1913 POB
17187505.15	1343971.88	R-S-1913 NE COR
17171453.20	1344218.26	R-S-1913 SE COR
17171446.67	1343218.02	R-S-1913 SW COR

Doc 2014 030469

NO.	DATE	REVISION
0	7/7/14	RECEIVED GLO
1	7/29/14	REVISED

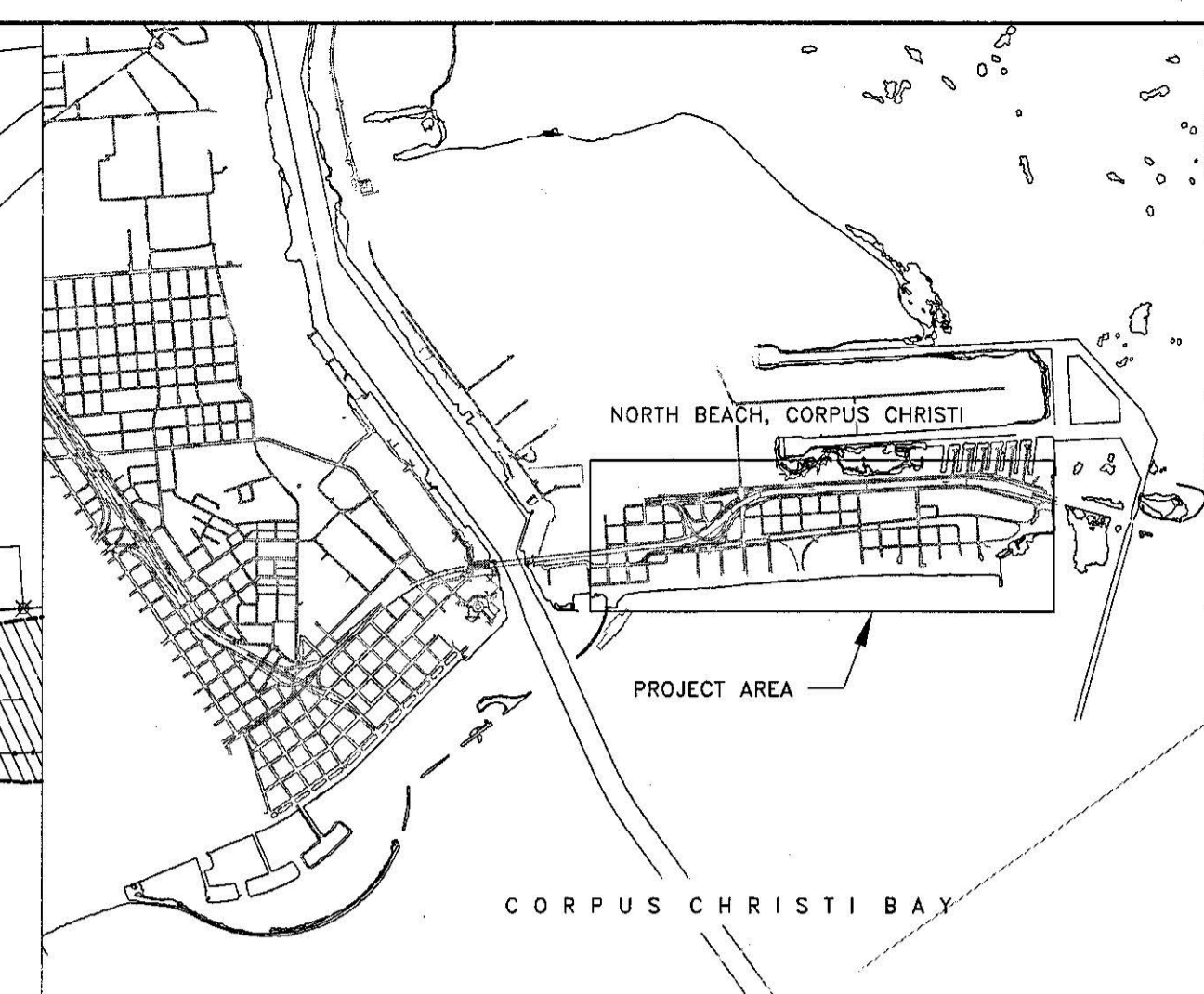
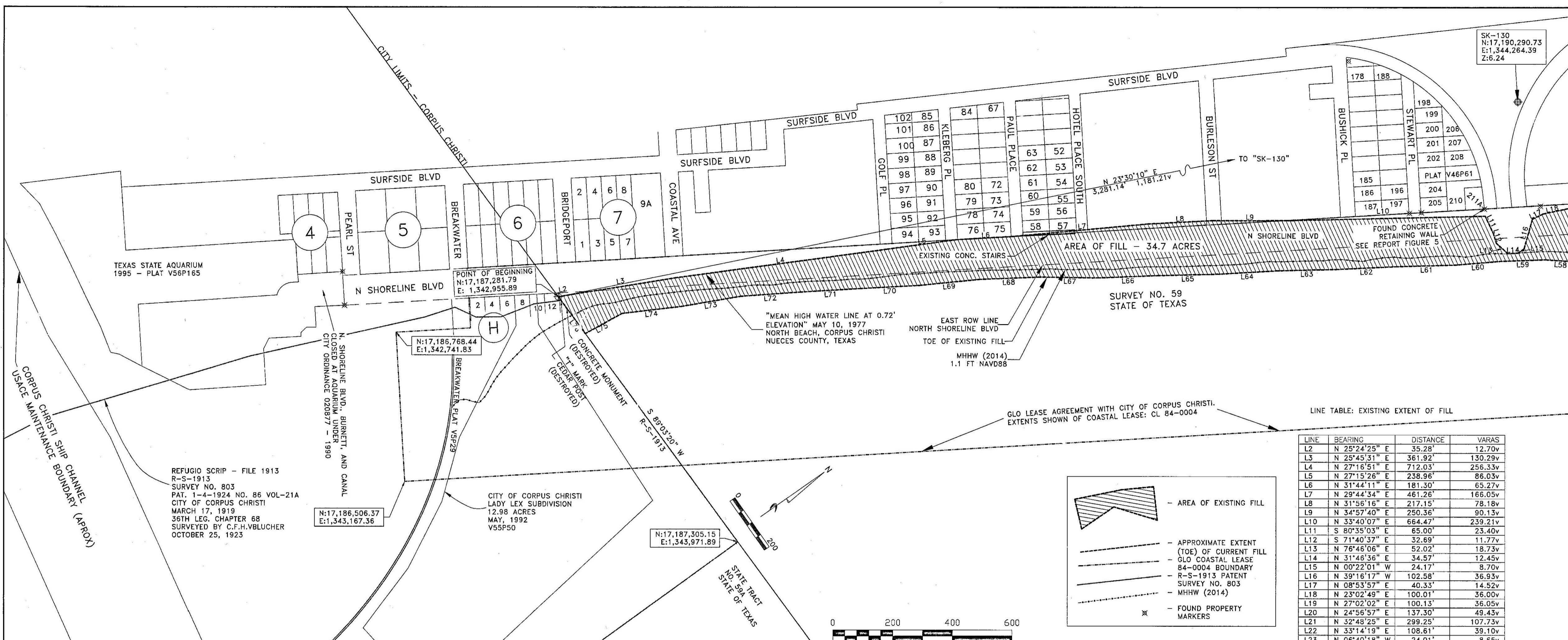
COASTAL BOUNDARY SURVEY OF THE LITTORAL BOUNDARY OF A PORTION OF THE ENRIQUE VILLAREAL, A-1 ADJACENT TO CORPUS CHRISTI BAY NUECES COUNTY, TEXAS

SCALE: 1" = 200' DATE: MAY 2014 SHEET: 1 OF 2

DRAWN BY: JZG

Naismith Marine
 Sea Floor Surveying
 3765 South Alameda, Suite 205
 Corpus Christi, Texas 78411
 WWW.NAISMITHMARINE.COM
 (361) 945-0248

August 2014
Squid



- NOTES:
- ALL COORDINATES REFER TO THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (#4205), AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, 1983 DATUM, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 1.00000177 AND MAPPING ANGLE IS 0.04 30' 20".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88

REFERENCE MONUMENT "SK-130"
 N: 17,190,290.73
 E: 1,344,264.39
 ELEV: 6.24' NAVD88

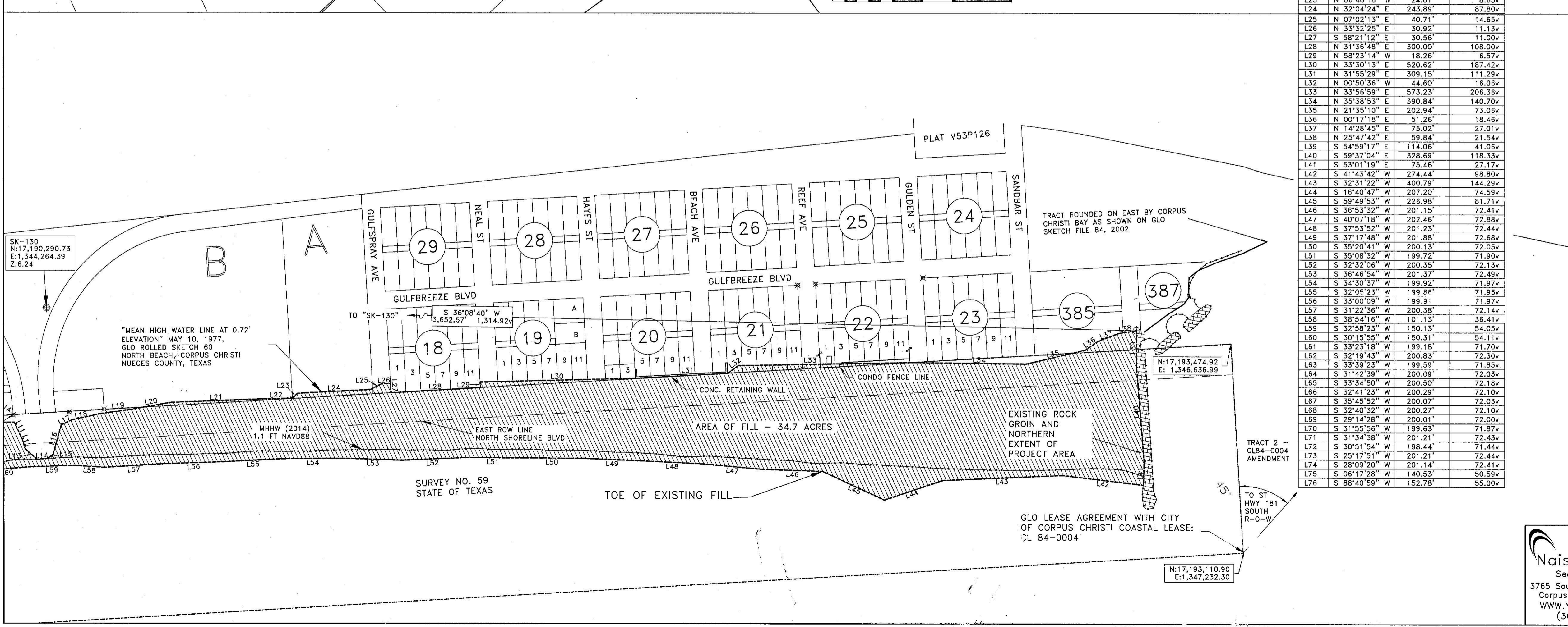
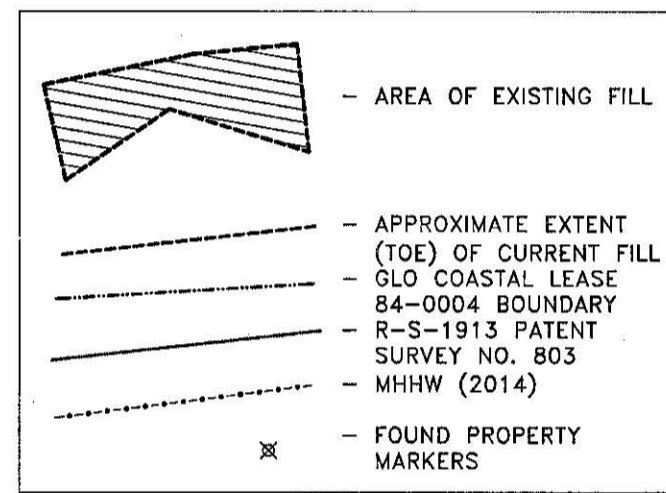
REFERENCE MONUMENT "LEXINGTON"
 N: 17,186,072.50
 E: 1,341,742.24
 ELEV: 7.85' NAVD88

REFERENCE MONUMENT "90008C"
 N: 17,186,515.89
 E: 1,342,501.89
 ELEV: 4.91' NAVD88

TEXAS GENERAL LAND OFFICE
 REF. SURVEY NUMBER: RESOURCES 008
 Co. Nueces Co., Sketch No. 18
 File Date 06/20/2012 by R. Herd
 See Report

LINE TABLE: EXISTING EXTENT OF FILL

LINE	BEARING	DISTANCE	VARAS
L2	N 25°24'25" E	35.28'	12.70'
L3	N 25°45'31" E	361.92'	130.29'
L4	N 27°16'51" E	712.03'	256.33'
L5	N 27°15'26" E	238.96'	86.03'
L6	N 31°44'11" E	181.30'	65.27'
L7	N 29°44'34" E	461.26'	166.05'
L8	N 31°55'16" E	217.15'	78.18'
L9	N 34°57'40" E	250.36'	90.13'
L10	N 33°40'07" E	664.47'	239.21'
L11	S 80°35'03" E	65.00'	23.40'
L12	S 71°40'37" E	32.69'	11.77'
L13	N 76°46'06" E	52.02'	18.73'
L14	N 31°48'36" E	34.57'	12.45'
L15	N 00°22'01" W	24.17'	8.70'
L16	N 39°18'17" W	102.58'	36.93'
L17	N 08°53'57" E	40.33'	14.52'
L18	N 23°02'49" E	100.01'	36.00'
L19	N 27°02'02" E	100.13'	36.05'
L20	N 24°56'57" E	137.30'	49.43'
L21	N 32°48'25" E	299.25'	107.73'
L22	N 33°14'19" E	108.61'	39.10'
L23	N 06°40'18" W	24.01'	8.55'
L24	N 32°04'24" E	243.89'	87.80'
L25	N 07°02'13" E	40.71'	14.65'
L26	N 33°32'25" E	30.92'	11.13'
L27	S 58°21'12" E	30.56'	11.00'
L28	N 31°36'48" E	300.00'	108.00'
L29	N 58°23'14" W	18.26'	6.57'
L30	N 33°30'33" E	520.62'	187.42'
L31	N 31°55'29" E	303.15'	111.29'
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L33	N 33°56'59" E	573.23'	206.36'
L34	N 35°38'53" E	390.84'	140.70'
L35	N 21°35'10" E	202.94'	73.06'
L36	N 00°17'18" E	51.26'	18.46'
L37	N 14°28'45" E	75.02'	27.01'
L38	N 25°47'42" E	59.84'	21.54'
L39	S 54°59'17" E	114.06'	41.06'
L40	S 59°37'04" E	328.69'	118.33'
L41	S 53°01'19" E	75.46'	27.17'
L42	S 41°43'42" W	274.44'	98.80'
L43	S 32°31'22" W	400.79'	144.29'
L44	S 16°40'47" W	207.20'	74.59'
L45	S 59°49'53" W	228.98'	81.71'
L46	S 36°53'33" W	201.15'	72.41'
L47	S 40°07'18" W	202.46'	72.88'
L48	S 37°53'52" W	201.23'	72.44'
L49	S 37°17'48" W	201.88'	72.68'
L50	S 35°20'41" W	200.13'	72.05'
L51	S 35°08'32" W	199.72'	71.90'
L52	S 32°32'06" W	200.35'	72.13'
L53	S 36°46'54" W	201.37'	72.48'
L54	S 34°30'37" W	199.92'	71.97'
L55	S 32°05'23" W	199.86'	71.95'
L56	S 33°00'09" W	199.91'	71.97'
L57	S 31°22'36" W	200.38'	72.14'
L58	S 38°54'16" W	101.13'	36.41'
L59	S 32°48'23" W	200.39'	72.10'
L60	S 30°15'55" W	150.31'	54.11'
L61	S 33°23'18" W	199.18'	71.70'
L62	S 32°19'43" W	200.83'	72.30'
L63	S 33°39'23" W	199.59'	71.85'
L64	S 31°42'39" W	200.09'	72.03'
L65	S 33°34'50" W	200.50'	72.18'
L66	S 32°41'23" W	200.39'	72.10'
L67	S 35°45'52" W	200.07'	72.03'
L68	S 32°40'32" W	200.27'	72.10'
L69	S 29°14'28" W	200.01'	72.00'
L70	S 31°55'56" W	199.63'	71.87'
L71	S 31°34'38" W	201.21'	72.43'
L72	S 30°9'54" W	198.44'	71.44'
L73	S 25°17'51" W	201.21'	72.44'
L74	S 28°09'20" W	201.14'	72.11'
L75	S 05°17'28" W	140.53'	50.59'
L76	S 88°40'59" W	152.78'	55.00'



- ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE RB.
- STATE OWNERSHIP BOUNDARY BASED ON "MEAN HIGH WATER LINE AT 0.72' ELEVATION" MAY 10-13, 1977, NORTH BEACH, NUECES COUNTY, TEXAS AS SHOWN ON GLO ROLLED SKETCH 60. OWNERSHIP BOUNDARY AT BLOCK 18 DETERMINED BY FINAL JUDGEMENT DATED AUGUST 11, 1978 - GLO SKETCH FILE 48. CURRENT MEAN HIGHER HIGH WATER (MHHW) ELEVATION OF 1.1' WAS DETERMINED FROM TIDON TIDE STATION 008: USS LEXINGTON.
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- EROSION RESPONSE WORK: GLO COASTAL LEASE 84-0004
 A) CITY OF CORPUS CHRISTI BEACH NOURISHMENT PROGRAM.
- REFERENCE ACCOMPANYING REPORT DATED MAY, 2014 AND COASTAL BOUNDARY SURVEY - SHEET 1 OF 2 FOR ADDITIONAL INFORMATION.
- ACCOMPANIES COASTAL BOUNDARY SURVEY - SHEET 1 OF 2.
- BACKGROUND IMAGE: NAIP 1-METER, 2012 FOR REFERENCE ONLY.

I, JAMES M. NAISMITH, HEREBY STATE THAT THIS DRAWING REPRESENTS A SURVEY THAT IS CORRECT; IN ACCORDANCE WITH SECTION 21.042 TEXAS NATURAL RESOURCES CODE, WAS MADE ACCORDING TO LAW; WAS MADE IN THE FIELD UNDER MY DIRECT CONTROL AND SUPERVISION; WAS MADE UTILIZING METHODOLOGY APPROVED BY THE GLO; AND IS RECORDED IN

NOTICE: THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE, FOR THE PURPOSE OF EVIDENCING THE LOCATION OF THE SHORELINE IN THE AREA DEPICTED IN THIS SURVEY AS THAT SHORELINE EXISTED BEFORE COMMENCEMENT OF EROSION RESPONSE ACTIVITY, AS REQUIRED BY CHAPTER 33, NATURAL RESOURCES CODE. THE LINE DEPICTED ON THIS SURVEY FIXES THE SHORELINE FOR THE PURPOSE OF LOCATING A SHORELINE BOUNDARY, SUBJECT TO MOVEMENT LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

34.7 ACRES OF FILL AND/OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA. CITY OF CORPUS CHRISTI ACTIVELY NOURISHES THE BEACH AT THE LITTORAL BOUNDARY OF CORPUS CHRISTI BAY UNDER GLO COASTAL LEASE 84-0004.

SURVEYED: FEBRUARY 27, MARCH 4, APRIL 16, AND MAY 19, 2014
 SURVEY PERSONNEL:
 JAMES M. NAISMITH
 B.S. GAMBILL
 J.Z. GIESSEL

JMA 8/4/2014
 JAMES M. NAISMITH
 LICENSED STATE LAND SURVEYOR

 Naismith Marine Sea Floor Surveying 3765 South Alameda, Suite 205 Corpus Christi, Texas 78411 WWW.NAISMITHMARINE.COM (361) 945-0248	NO. DATE: REVISION	FILL MAP TO ACCOMPANY COASTAL BOUNDARY SURVEY OF THE LITTORAL BOUNDARY OF A PORTION OF THE ENRIQUE VILLAREAL, A-1 ADJACENT TO CORPUS CHRISTI BAY NUECES COUNTY, TEXAS	SCALE: 1" = 200' DATE: MAY 2014 SHEET: 2 OF 2
	0 7/27/14 RECEIVED GLO 1 7/27/14 REVISED		



**Surveying Division
Coastal Boundary Survey Approval**

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Project: North Beach Re-nourishment

Co. Nueces, Sketch No. 18

Project No: CL840004 (GLO)
CEPRA 1569

File Date 06/20/2018 by R. Kartye


Project Manager: Amy Nuñez, GLO Lower Coast Regional Manager

Surveyor: James M. Naismith, Licensed State Land Surveyor

Description: A Coastal Boundary Survey, with accompanying "Fill Map", dated February 27, March 4, April 16 and May 19, 2014, by James M. Naismith, Licensed State Surveyor, delineating a portion of the littoral boundary of the Enrique Villareal Grant, Abstract 1, on the northwesterly shore of Corpus Christi Bay and adjacent filled area in Submerged Land Tract 59. The survey is associated with the re-nourishment of North Beach, authorized under Texas General Land Office lease CL840004 and Coastal Erosion Planning and Response Act (CEPRA) Project 1569, situated at said North Beach, beginning at the northeasterly boundary of Breakwater Avenue and extending northeasterly to the existing rock groin near Sandbar Drive, coordinates N27.823978° W97.384960° WGS84.

A Coastal Boundary Survey for the above-referenced project has been reviewed and accepted; upon completion of public notice requirements, the survey will be filed in the Texas General Land Office, Archives and Records, in accordance with provisions of the *Texas Natural Resources Code*, Chapter 33.136.

Approved:

Signed: 
Surveying Division

Sept. 19, 2014
Date

Approval Filed as:

Tex. Nat. Res. Code Article 33.136, Nueces County, Sketch No. 18



Zac Giessel
Naismith Marine Services, Inc.
3765 S. Alameda St.
Ste. 205
Corpus Christi, TX 78411

August 21, 2014

Attn: Mr. David Pyle
Texas General Land Office
Survey Division
1700 N. Congress Ave.
Rm. 131
Austin, TX 78701

RE: Coastal Boundary Survey Maps: replacement Mylar maps for Indian Point, San Patricio County and North Beach, Nueces County.

Mr. David Pyle:

Please find enclosed one (1) signed and sealed Coastal Boundary Survey (CBS) map for Indian Point, San Patricio County and one (1) CBS of North Beach, Nueces County (two (2) maps). Please be aware that the new Mylar copies do not have county filing information included on the Mylar map itself. The Indian Point CBS has been filed at Nueces County Clerk's map records under: **Volume 68, Page 278, and Document Number: 2014030470**. San Patricio County has refused to accept and file the Indian Point CBS. The filing information has been included for North Beach as a paper photocopy of the original.

Please call me if you have any questions.

Thank you,

Justin ZAC Giessel
Naismith Marine Services, Inc.
zac@naismithmarine.com
361-920-0436

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Co. Nueces, Sketch No. 18

File Date 06/20/2018 by R. Kartye

Encl.

- (1) Mylar CBS – Indian Point, San Patricio Co.
- (2) Mylar CBS – boundary/fill North Beach, Nueces Co.
- (1) photocopy of North Beach filing information at Nueces County Clerk Map Records

Naismith Marine Services, Inc.
3765 South Alameda, Suite 205
Corpus Christi, Texas 78411
(361) 945-0248 www.naismithmarine.com



May, 2014

**Report of a Coastal Boundary Survey of
The Littoral Boundary of a
Portion of the Enrique Villareal, A-1,
Adjacent To Corpus Christi Bay
Nueces County, Texas
State tract 59 and Refugio Scrip 1913
Nueces County, Texas**

This cover accompanies a map of survey dated May 2014.

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Co. Nueces, Sketch No. 18

File Date 06/20/2018 by L. Kurtze

STATE OF TEXAS:
COUNTY OF NUECES:

I, Diana Barrera, Clerk of the County Court in and for Nueces County, Texas, hereby certify that the foregoing map of COASTAL BOUNDARY SURVEY, STATE OF TEXAS SUBMERGED LAND TRACT NO. 59, REFUGIO SCRIP 1913, AND PORTION OF THE ENRIQUE VILLAREAL, A-1 IN NUECES COUNTY, TEXAS dated May, 2014, with its certificate of authentication was filed for record in my office this 7 day of August, 2014, at 2:03 o'clock P.M. and duly recorded in Cabinet 608, Pages 276-277 Map Records of Nueces County, Texas. Witness my hand and seal of said Court at office in Corpus Christi, Texas, this _____ day of _____, 2014.

Sylvia Castillo
Diana Barrera, Nueces County Clerk

2014030469
Doc. #

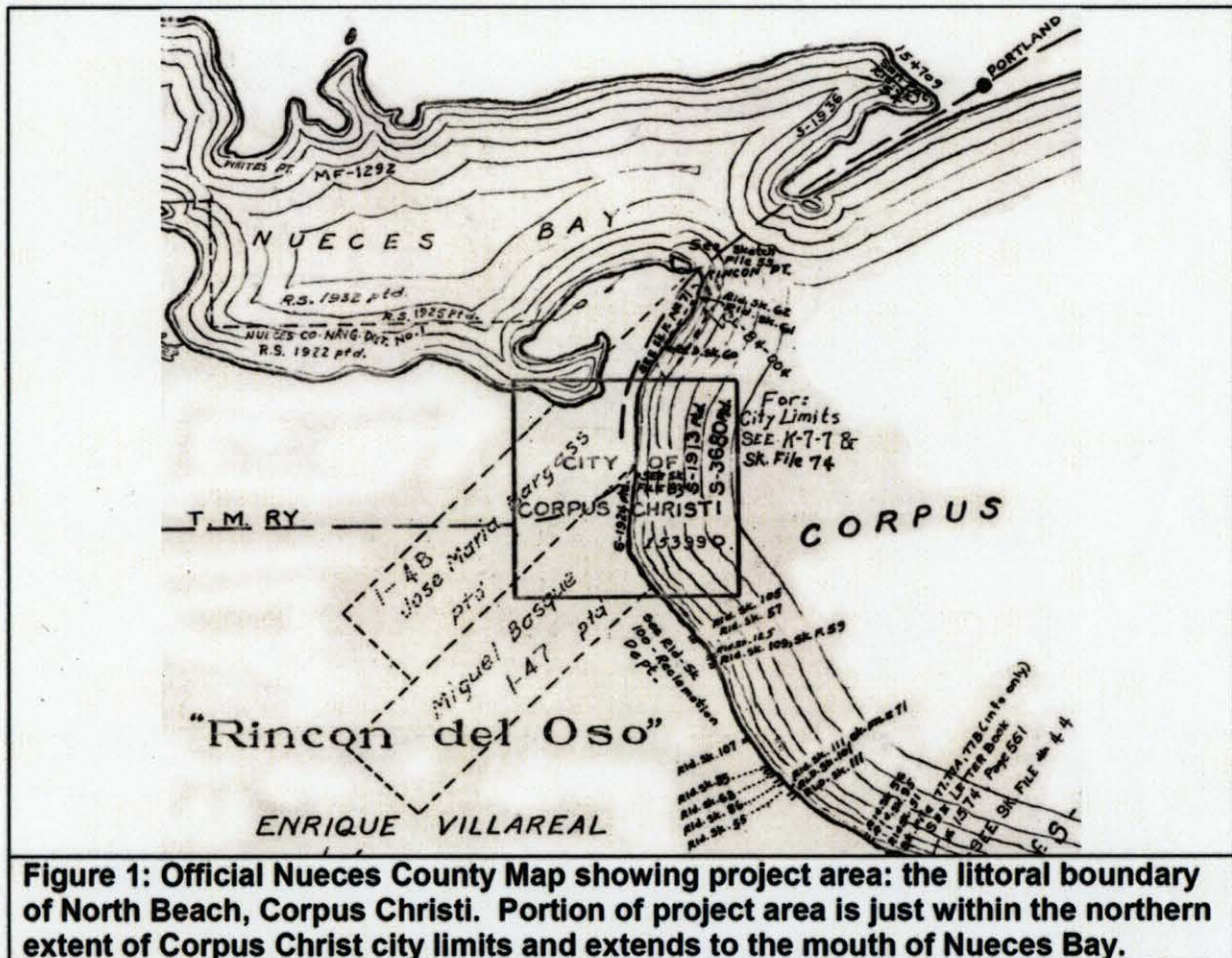
North Beach CBS - COVER PAGE



May, 2014

Report of a Coastal Boundary Survey of
The Littoral Boundary of a
Portion of the Enrique Villareal, A-1,
Adjacent To Corpus Christi Bay
Nueces County, Texas
State tract 59 and Refugio Scrip 1913
Nueces County, Texas

This report accompanies a map of survey dated May 2014.



SURVEY CONTROL: Survey at North Beach, Corpus Christi was performed using survey grade RTK GPS base and rover: Hemisphere S320 or Trimble R8 receivers. Survey was conducted on February 28, March 4, and April 16, 2014. Horizontal control for this project was based on City of Corpus Christi monument 'SK-130', NGS monument 'LEXINGTON', and tidal benchmark '90008A'. OPUS solutions for these monuments were used to adjust published values.



Figure 2: City of Corpus Christi monument 'SK-130' and NGS monument 'LEXINGTON' were used as horizontal control for the coastal boundary survey at North Beach, Corpus Christi.

TIDAL DATUMS: Tidal datums for this project were established by retrieving historical data from TCOON tidal station 008: 'Lexington'. Mean Higher High Water line (MHHW) at Corpus Christi Bay at the project site was determined to be 1.1 FT NAVD88.

BRIEF HISTORY: North Beach, Corpus Christi is situated on the northwest corner of Corpus Christi Bay in Nueces County. The "Rincon del Oso" was originally granted to Enrique Villareal by the Mexican government in 1831. A title was issued November 18, 1834, however, the title was later withdrawn. Land in present-day North Beach was subdivided, and plats filed in 1890 under the name 'Brooklyn Subdivision'; original plats were filed in volume A, pages 30-33. Subsequent subdivisions were made out of Brooklyn to include 'Corpus Beach Hotel Addition,' starting with volume 1, page 51 in 1910. The shoreline along Corpus Christi Bay at this location is impacted directly by the prevailing south/southeast winds and accompanying wind-driven surface currents and long-shore drift. The shoreline has experience significant erosion since it was first recorded by Blucher Engineering Company in 1929.



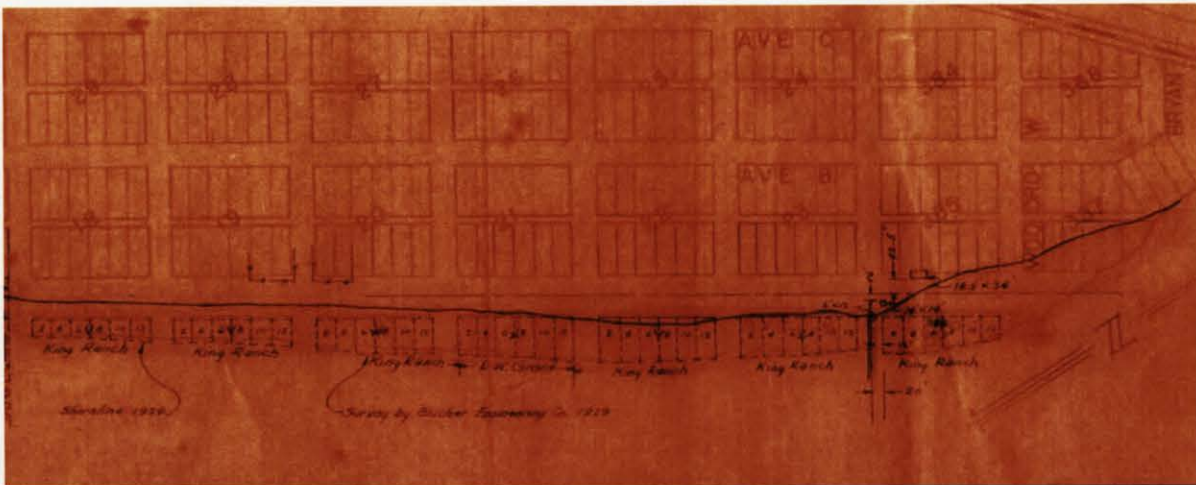


Figure 3: Right-of-way (ROW) map of North Shoreline Boulevard obtained from the City of Corpus Christi Engineering Services which shows the Blucher water line in 1929 as well as the observed water line at the time of the ROW map publication in 1966 (thick black line).

In addition to natural erosion along the beach, several hurricanes have been attributed to the loss of property due to avulsion, including Hurricane Carla, 1960, Hurricane Beulah, 1967, and Hurricane Celia, 1970. Avulsion at North Beach has been addressed in lawsuits later cited in this report. In the mid-1970's the decision was reached to nourish the shoreline at North Beach in order to protect the littoral rights of property owners. A coastal boundary survey was conducted by James McCarty, LSLS on May 10-13, 1977 in order to record the extent of State ownership along the shoreline. Construction/nourishment of the beach commenced shortly thereafter. The project area includes areas within Brooklyn Addition and Corpus Beach Hotel Addition along the nourished beach from a breakwater to the south described in Nueces County records plat volume 5, page 29 to a rock groin north.

ORIGINAL PATENTS:

Enrique Villareal, A-1 or Patent No. 43 (GLO web).

Mexican Land Grant – State of Tamaulipas

Titled November 18, 1834, but title later withdrawn (62 Texas Reports 705)

Refugio Scrip 1913: Part of the southern extent of the project area (from north line of Block H near USS Lexington south to a breakwater shown in Nueces County records volume 5, page 29) is submerged land which is part of land patented under File 1913 Refugio Scrip (R-S-1913), City of Corpus Christi – 705.78 Ac, Survey No. 803 - March 17, 1919. The land was patented to the City of Corpus Christi by the State of Texas on January 4, 1924. Legislature of the state of Texas, 1917, under Chapter 116 of General Laws of the 35th Legislature donated and granted to City of Corpus Christi the net amounts of the state ad valorem taxes collected from Nueces County in order to build a seawall to protect the city. The land under Corpus Christi Bay within the



Judgment was made September 26, 1978:

Plaintiffs are "entitled to recover judgment against the Defendant for title to and possession of the land in dispute" returning the eastern boundary of Block 18 to its original location along the west ROW of North Shoreline Boulevard.

LEASE ON COASTAL PUBLIC LANDS – LEASE NO. CL 84-004

Granted by VTCA, Natural Resources Code, Chapter 33, Texas Administrative Code 31 TAC Chapter 155. The City of Corpus Christi leased from the GLO an area bounded on the west by the west ROW of North Shoreline Boulevard and extending east 700 FT into the Corpus Christi Bay for 50 years from July 17, 1984. Amendment to CL 84-004: 30 January, 1985 adds two additional properties on the northern portion of the beach at the mouth of Nueces Bay. These two additional properties are not within the project area. Two additional parcels total 12.95 acres within Corpus Christi Bay Tract 59. This land shall be managed as part of the Corpus Christi Beach Park.

TELEPHONE CONVERSATION - David Pyle: 4/2/14

Help was requested from the GLO in order to establish a nexus between CL 84-004, and Sketch file 62 and 61 which shows MHW line at 0.72 on May 10-13, 1977. Mr. Pyle explained that GLO Sketch File 60 shows entire stretch of North Beach with references to blocks and streets showing the shoreline position on May 10-13, 1977. Mr. Pyle also explained that the MHW line established in 1977 was done prior to beach nourishment, and is the recognized State boundary between minerals lease tract 59 and private ownership. Lawsuit concerning property lost to avulsion at Block 18, Brooklyn Addition only affects that particular parcel. Corpus Christi patent R-S-1913 intersects with Corpus Christi Beach at a concrete retaining wall at restaurant near Lexington. Its position can only be approximated from minerals map, and will be sufficient for GLO submittal for Coastal Boundary Survey at North Beach, Corpus Christi.

Handwritten notes and stamps at the bottom left of the page, including a date stamp "APR 14 2014" and other illegible markings.

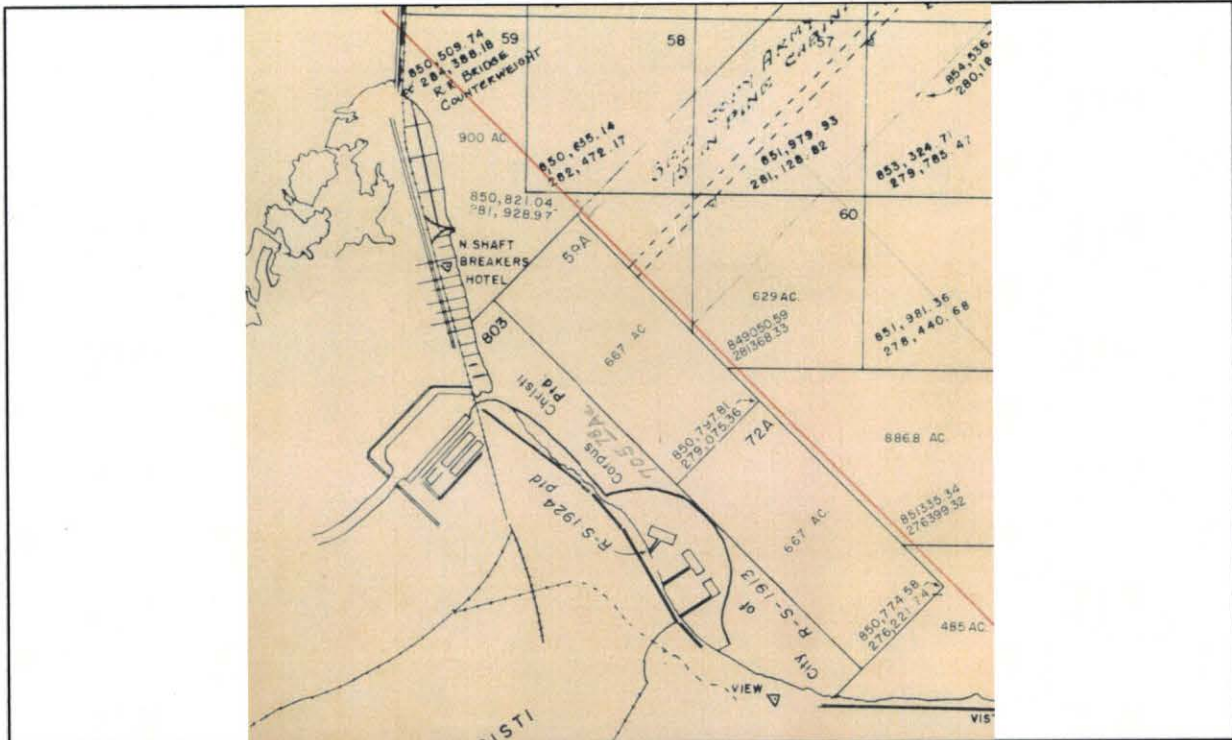


Figure 6: Map of Corpus Christi Bay in Nueces County Showing subdivision for mineral development and State tract 59 which borders private littoral land on North Beach. Bascom Giles, Commissioner – GLO. May 5, 1950 – revised Jan 28, 1981.5

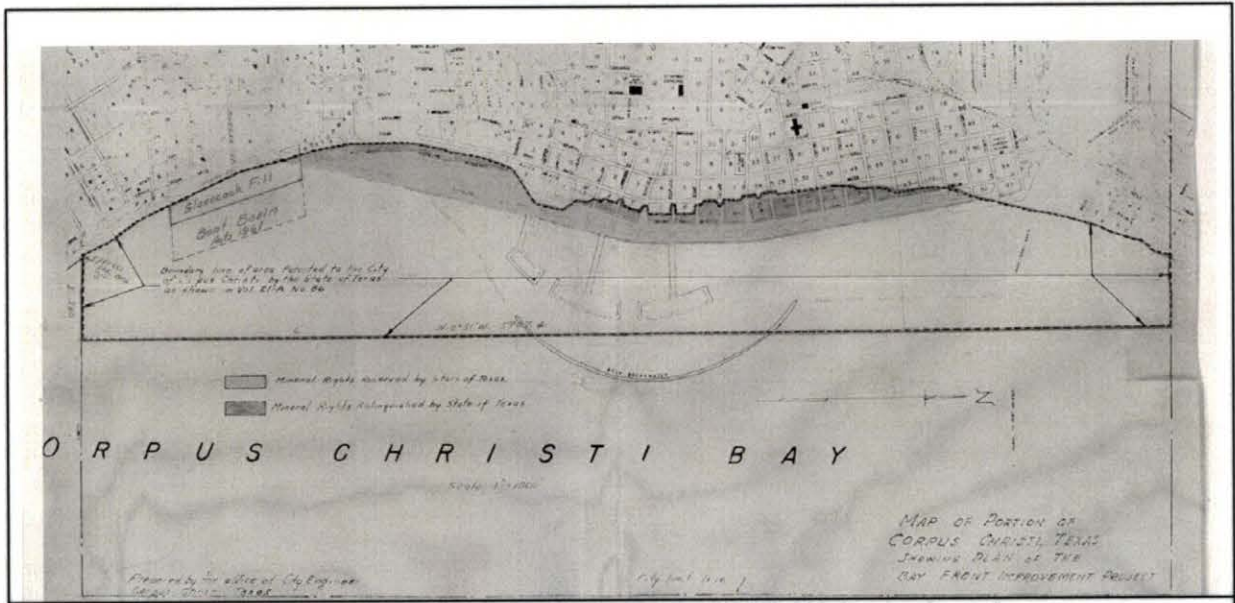


Figure 7: Showing surveyed plat of 803 patent, 1997. Waiver of surface access GLO Sketch File 83. City limits of the City of Corpus Christi are shown as well as reclaimed land in downtown district.

850,508.74
 284,388.18 59
 R. & BRIDGE
 COUNTERWEIGHT
 900 AC
 850,821.04
 281,928.97
 N SHAFT
 BREAKERS
 HOTEL
 803
 50A
 667 AC
 849,050.59
 281,368.33
 629 AC
 851,979.93
 281,128.82
 854,536
 280,16
 853,324.7
 279,785.47
 60
 851,381.36
 278,440.68
 629 AC
 850,774.88
 276,221.14
 72A
 850,747.81
 279,076.36
 667 AC
 851,335.84
 276,399.32
 6868 AC
 485 AC
 CITY
 R-S-1913
 VIEW
 VIS

EXISTING FILL AT NORTH BEACH RESULTING FROM NOURISHMENT

The nourished beach extends from the 1977 "MHW line" seaward into the Corpus Christi Bay. The extent of fill was recorded on and near the shoreline using RTK GPS base and rover on the aforementioned NGS monument "LEXINGTON". Elevations seaward of practical shoreline were measured on February 27 and March 4, 2014 using single beam sonar and adhering to hydrographic survey methodology outlined in the Corps of Engineers Hydrographic Survey Manual, 2013. The toe of fill was determined using profiles from this survey area.

FIELD NOTES for the State boundary along the shoreline of Corpus Christi Bay between the "Rincon del Oso" Enrique Villareal, A-1 survey and State Tract 59 in Nueces County, Texas described by James McCarty in GLO Rolled Sketch 60, 1977. Also included are field notes describing existing extent of artificial fill following beach nourishment in 1977. Bearings, distances, and coordinates are grid, North American Datum of 1983, Texas South Zone.

1977 "MHW line" - State boundary:

Beginning at point, N= 17,187,205.27, E= 1,342,919.55 a point at the intersection of the 1977 "MHW line" of the shoreline of Corpus Christi Bay and historical concrete retaining wall, from which "SK-130" bears N 23°33'02" E a distance of 3,365.81' (1,211.69v). Point of beginning bears from center line intersection of Breakwater Avenue and North Shoreline Boulevard; N 31° 37' 35" E; (PLAT V(A)P32 = N 32° 00' 00") a distance of 240.86', (86.71v); thence 72.0' (25.92v) at a right angle to point of beginning (GLO Rolled Sketch 60);

thence N 25°24'25" E, along the 1977 "MHW line" of the shoreline of Corpus Christi Bay a distance of 84.71' (30.50v) to the northern City of Corpus Christi City Limits boundary; thence N 25°24'25" E a distance of 35.28' (12.70v) to the center line of Bridgeport St; thence N 25°45'31" E a distance of 361.92' (130.29v) to the center line of Coastal Ave; thence N 27°16'51" E a distance of 712.03' (256.33v) to the center line of Golf Pl; thence N 27°15'26" E a distance of 238.96' (86.03v) to the south corner of an existing concrete retaining wall and north right-of-way of Kleberg Pl; thence N 31°44'11" E, along concrete retaining wall a distance of 181.30' (65.27v) to the east corner of said retaining wall; thence N 29°44'34" E, across Paul Pl right-of-way, and across 174.45' of existing concrete stairs a distance of 461.26' (166.05v) along the 1977 "MHW line"; thence N 31°56'16" E a distance of 217.15' (78.18v) to center line of Burleson St; thence N 34°57'40" E a distance of 250.36' (90.13v) to intersection of the center line of Dickinson St and the west right-of-way line of North Shoreline Blvd; thence N 33°40'07" E, along the 1977 "MHW line" a distance of 664.47' (239.21v); thence S 80°35'03" E a distance of 65.00' (23.40v); thence S 71°40'37" E a distance of 32.69' (11.77v); thence N 76°46'06" E a distance of 52.02' (18.73v); thence N 31°46'36" E, along current MHHW line a distance of 34.57' (12.45v); thence N 00°22'01" W, along 1977 "MHW line" a distance of 24.17' (8.70v);

thence N 39°16'17" W a distance of 102.58' (36.93v);
thence N 08°53'57" E a distance of 40.33' (14.52v);
thence N 23°02'49" E a distance of 100.01' (36.00v);
thence N 27°02'02" E a distance of 100.13' (36.05v);
thence N 24°56'57" E a distance of 137.30' (49.43v);
thence N 32°48'25" E a distance of 299.25' (107.73v);
thence N 33°14'19" E a distance of 108.61' (39.10v) to existing concrete retaining wall;
thence N 06°40'18" W, around seaward finger of retaining wall a distance of 24.01' (8.65v);
thence N 32°04'24" E a distance of 243.89' (87.80v) to existing concrete retaining wall;
thence N 07°02'13" E, around seaward finger of retaining wall a distance of 40.71' (14.65v) to center line of Gulfspray Ave;

thence N 33°32'25" E a distance of 30.92' (11.13v) to southwest line of Block 18;
thence S 58°21'12" E, along southwest line of Block 18 a distance of 30.56' (11.00v);
thence N 31°36'48" E, along southeast line of Block 18 a distance of 300.00' (108.00v);
thence N 58°23'14" W, along northeast line of Block 18 a distance of 18.26' (6.57v);

thence N 33°30'13" E a distance of 520.62' (187.42v) to south corner of existing concrete retaining wall;
thence N 31°55'29" E, along southeast face of concrete retaining wall a distance of 309.15' (111.29v);
thence N 00°50'36" W, along 1977 "MHW line" a distance of 44.60' (16.06v);
thence N 33°56'59" E a distance of 573.23' (206.36v) to the intersection of the southwest right-of-way of Gulden St and the east corner of Block 22;
thence N 35°38'53" E a distance of 390.84' (140.70v) to center line of Sandbar St;
thence N 21°35'10" E, along 1977 "MHW line" a distance of 202.94' (73.06v);
thence N 00°17'18" E a distance of 51.26' (18.46v);
thence N 14°28'45" E a distance of 75.02' (27.01v);
thence N 25°47'42" E a distance of 59.84' (21.54v); to intersection of 1977 "MHW line" and existing rock groin and **end point**, N= 17,193,240.29, E= 1,346,418.74, from which "SK-130" bears S 36°08'40" W a distance of 3,652.57' (1,314.92v).

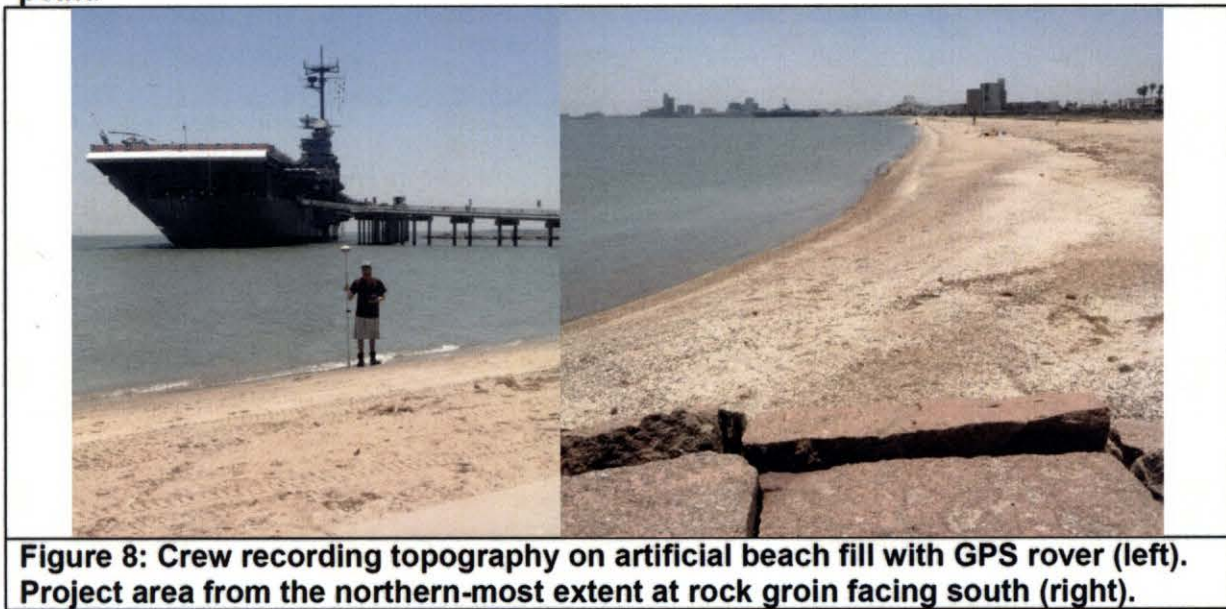
Extent of existing artificial fill (34.7 acres)

Beginning at a point, N= 17,187,281.79, E= 1,342,955.89, on the intersection of the north line of the City of Corpus Christi City Limits and the 1977 "MHW line" of the shoreline of Corpus Christi Bay; from which "SK-130" bears N 23°30'10" E a distance of 3,281.14' (1,181.21v);
thence N 25°24'25" E, along 1977 State Boundary line a distance of 35.28' (12.70v);
thence N 25°45'31" E a distance of 361.92' (130.29v);
thence N 27°16'51" E a distance of 712.03' (256.33v);
thence N 27°15'26" E a distance of 238.96' (86.03v);
thence N 31°44'11" E a distance of 181.30' (65.27v);
thence N 29°44'34" E a distance of 461.26' (166.05v);
thence N 31°56'16" E a distance of 217.15' (78.18v);

thence N 34°57'40" E a distance of 250.36' (90.13v);
thence N 33°40'07" E a distance of 664.47' (239.21v);
thence S 80°35'03" E a distance of 65.00' (23.40v);
thence S 71°40'37" E a distance of 32.69' (11.77v);
thence N 76°46'06" E a distance of 52.02' (18.73v);
thence N 31°46'36" E a distance of 34.57' (12.45v);
thence N 00°22'01" W a distance of 24.17' (8.70v);
thence N 39°16'17" W a distance of 102.58' (36.93v);
thence N 08°53'57" E a distance of 40.33' (14.52v);
thence N 23°02'49" E a distance of 100.01' (36.00v);
thence N 27°02'02" E a distance of 100.13' (36.05v);
thence N 24°56'57" E a distance of 137.30' (49.43v);
thence N 32°48'25" E a distance of 299.25' (107.73v);
thence N 33°14'19" E a distance of 108.61' (39.10v);
thence N 06°40'18" W a distance of 24.01' (8.65v);
thence N 32°04'24" E a distance of 243.89' (87.80v);
thence N 07°02'13" E a distance of 40.71' (14.65v);
thence N 33°32'25" E a distance of 30.92' (11.13v);
thence S 58°21'12" E a distance of 30.56' (11.00v);
thence N 31°36'48" E a distance of 300.00' (108.00v);
thence N 58°23'14" W a distance of 18.26' (6.57v);
thence N 33°30'13" E a distance of 520.62' (187.42v);
thence N 31°55'29" E a distance of 309.15' (111.29v);
thence N 00°50'36" W a distance of 44.60' (16.06v);
thence N 33°56'59" E a distance of 573.23' (206.36v);
thence N 35°38'53" E a distance of 390.84' (140.70v);
thence N 21°35'10" E a distance of 202.94' (73.06v);
thence N 00°17'18" E a distance of 51.26' (18.46v);
thence N 14°28'45" E a distance of 75.02' (27.01v);
thence N 25°47'42" E a distance of 59.84' (21.54v); to intersection of 1977 "MHW line"
and existing rock groin; N= 17,193,240.29, E= 1,346,418.74, from which "SK-130" bears
S 36°08'40" W a distance of 3,652.57' (1,314.92v)

thence S 54°59'17" E, along current MHHW line of rock groin
a distance of 114.06' (41.06v);
thence S 59°37'04" E a distance of 328.69' (118.33v);
thence S 53°01'19" E a distance of 75.46' (27.17v);
thence S 41°43'42" W, along toe of existing artificial fill a distance of 274.44' (98.80v);
thence S 32°31'22" W a distance of 400.79' (144.29v);
thence S 16°40'47" W a distance of 207.20' (74.59v);
thence S 59°49'53" W a distance of 226.98' (81.71v);
thence S 36°53'32" W a distance of 201.15' (72.41v);
thence S 40°07'18" W a distance of 202.46' (72.88v);
thence S 37°53'52" W a distance of 201.23' (72.44v);
thence S 37°17'48" W a distance of 201.88' (72.68v);
thence S 35°20'41" W a distance of 200.13' (72.05v);

thence S 35°08'32" W a distance of 199.72' (71.90v);
 thence S 32°32'06" W a distance of 200.35' (72.13v);
 thence S 36°46'54" W a distance of 201.37' (72.49v);
 thence S 34°30'37" W a distance of 199.92' (71.97v);
 thence S 32°05'23" W a distance of 199.86' (71.95v);
 thence S 33°00'09" W a distance of 199.91' (71.97v);
 thence S 31°22'36" W a distance of 200.38' (72.14v);
 thence S 38°54'16" W a distance of 101.13' (36.41v);
 thence S 32°58'23" W a distance of 150.13' (54.05v);
 thence S 30°15'55" W a distance of 150.31' (54.11v);
 thence S 33°23'18" W a distance of 199.18' (71.70v);
 thence S 32°19'43" W a distance of 200.83' (72.30v);
 thence S 33°39'23" W a distance of 199.59' (71.85);
 thence S 31°42'39" W a distance of 200.09' (72.03v);
 thence S 33°34'50" W a distance of 200.50' (72.18v);
 thence S 32°41'23" W a distance of 200.29' (72.10v);
 thence S 35°45'52" W a distance of 200.07' (72.03v);
 thence S 32°40'32" W a distance of 200.27' (72.10v);
 thence S 29°14'28" W a distance of 200.01' (72.00v);
 thence S 31°55'56" W a distance of 199.63' (71.87v);
 thence S 31°34'38" W a distance of 201.21' (72.43v);
 thence S 30°51'54" W a distance of 198.44' (71.44v);
 thence S 25°17'51" W a distance of 201.21' (72.44v);
 thence S 28°09'20" W a distance of 201.14' (72.41v);
 thence S 06°17'28" W a distance of 140.53' (50.59v);
 thence S 88°40'59" W, along the north line of the City of Corpus Christi City Limits a
 distance of 152.78' (55.00v); which is the point of beginning,
 having an area of 1,512,187.72 square feet (1,512,000 ft²), 34.71 acres; to the **end
 point.**



**Figure 8: Crew recording topography on artificial beach fill with GPS rover (left).
 Project area from the northern-most extent at rock groin facing south (right).**

PUBLISHER'S AFFIDAVIT

State of Texas }
County of Nueces }

TX GENERAL LAND OFFICE
Ad # 413523
PO #

Before me, the undersigned, a Notary Public, this day personally came GEORGIA LAWSON, who being first duly sworn, according to law, says that she is LEGAL SALES REPRESENTATIVE AND EMPLOYEE OF THE PUBLISHER, namely, the *Corpus Christi Caller-Times*, a daily newspaper published at Corpus Christi in said City and State, generally circulated in Aransas, Bee, Brooks, Duval, Jim Hogg, Jim Wells, Kleberg, Live Oak, Nueces, Refugio, and San Patricio, Counties, and that the publication of GENERAL LAND OFFICE NOTICE OF APPROV which the annexed is a true copy,

was inserted in the *Corpus Christi Caller-Times* on:

CC-Corpus Christi Caller-Times	10/09/14 Thu
CC-Corpus Christi Caller-Times	10/16/14 Thu
CC-Internet - caller.com	10/09/14 Thu
CC-Internet - caller.com	10/16/14 Thu

LEGAL SALES REPRESENTATIVE

On this 22 day of October, 2014 I certify that the attached document is a true and exact copy made by publisher.

Notary Public, State of Texas



TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Co. Nueces, Sketch No. 18

File Date 06/20/2018 by R. Kartye

[<<Prev Document](#)**Texas Register**[Next Document>>](#)

AGENCY General Land Office

ISSUE 11/07/2014

ACTION Miscellaneous

Notice of Approval of Coastal Boundary Survey

Pursuant to §33.136 of the Texas Natural Resources Code, notice is hereby given that Jerry Patterson, Commissioner of the General Land Office, approved a **coastal boundary** survey described as follows:

A **Coastal Boundary** Survey, with accompanying "Fill Map", dated February 27, March 4, April 16 and May 19, 2014, by James M. Naismith, Licensed State Surveyor, delineating a portion of the littoral boundary of the Enrique Villareal Grant, Abstract 1, on the northwesterly shore of Corpus Christi Bay and adjacent filled area in Submerged Land Tract 59. The survey is associated with the re-nourishment of North Beach, authorized under Texas General Land Office lease CL840004 and Coastal Erosion Planning and Response Act (CEPRA) Project 1569, situated at said North Beach, beginning at the northeasterly boundary of Breakwater Avenue and extending northeasterly to the existing rock groin near Sandbar Drive, coordinates N27.823978° W97.384960° WGS84.

This survey is intended to provide pre-project baseline information related to an erosion response activity on coastal public lands. An owner of uplands adjoining the project area is entitled to continue to exercise littoral rights possessed prior to the commencement of the erosion response activity, but may not claim any additional land as a result of accretion, reliction, or avulsion resulting from the erosion response activity.

For a copy of this survey or more information on this matter, contact Bill O'Hara, Director of the Survey Division, Texas General Land Office, by phone at (512) 463-5212, email bill.o'hara@glo.texas.gov, or fax (512) 463-5223.

TRD-201404950

Larry L. Laine

Chief Clerk, Deputy Land Commissioner

General Land Office

Filed: October 23, 2014

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Co. Nueces, Sketch No. 18File Date 06/20/2013 by R. Kartye[Next Page](#)[Previous Page](#)[Re-Query Register Database](#)[Back to List](#)