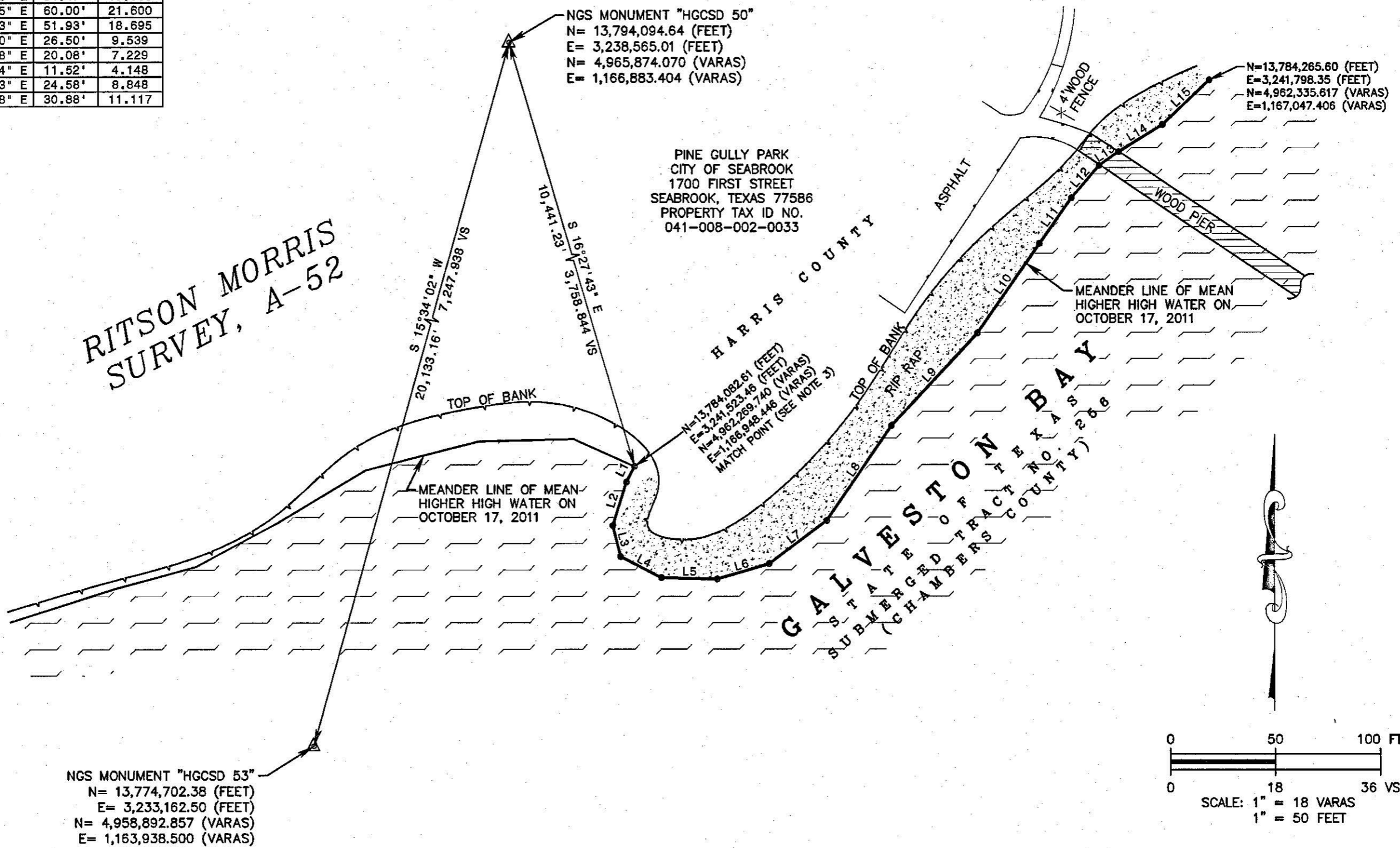


LINE	Bearing	Distance Feet	Distance Varas
L1	S 27°53'12" W	8.41'	3.026
L2	S 17°22'44" W	21.61'	7.781
L3	S 13°59'57" E	15.16'	5.458
L4	S 62°40'13" E	21.91'	7.887
L5	S 88°28'30" E	26.86'	9.670
L6	N 73°45'31" E	25.99'	9.356
L7	N 53°22'06" E	34.35'	12.364
L8	N 34°23'43" E	54.47'	19.608
L9	N 43°02'35" E	60.00'	21.600
L10	N 35°04'03" E	51.93'	18.695
L11	N 35°21'40" E	26.50'	9.539
L12	N 40°43'48" E	20.08'	7.229
L13	N 55°13'54" E	11.52'	4.148
L14	N 58°32'43" E	24.58'	8.848
L15	N 46°27'48" E	30.88'	11.117

RITSON MORRIS SURVEY, A-52



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 meander 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.

NOTE:

- All coordinates and bearings shown hereon are grid values referenced to the Texas Coordinate System of 1983, South Central Zone and NGS Monuments "HGCSO 50" and "HGCSO 53". All distances shown hereon are surface distances unless noted and may be converted to grid distances by multiplying by a scale factor of 0.999880014. Mapping angle for this project is 01°56'58". Elevations are referenced to N.G.V.D. 1988 datum and NGS Monument "HGCSO 53" having an elevation of 8.17' NGVD '88.
 - Tidal Datums are tied to Morgans Point Station ID# 8770613 tidal benchmark Morgan Pt 3 Use 1973 VM# 11215, PID# AW1555. Tidal Datums for Morgans Point based on the 3 year series from April 2001-March 2004 with a tidal epoch of 1983-2001. Control Tide Station Galveston Pier 21, Galveston Channel. On site elevation of Mean Higher High Water is determined to be 1.47' NGVD '88.
 - "Match Point" refers to a common point with a survey prepared by Coastal Surveying of Texas, Inc. entitled "Topographic Survey of Pine Gully Restoration" dated December 7, 2010.
 - GLO Permit Number SL20100062
 - Erosion Response Work is Construction of a Rock Jetty Breakwater for Pine Gully.
- (Notes 4 and 5 added per 11/30/2011 memo from William E. Merten to GLO)

I, William E. Merten, Licensed State Land Surveyor in and for the State of Texas, do hereby certify that on October 17, 2011, I have located the natural contour line of Mean Higher High Water in accordance with methodology approved by the General Land Office, on the ground, according to law and with the personnel stated, and that the meander lines of said contour line are true and correct as shown hereon. To the best of my knowledge no artificial fill, any development or placement of retaining walls, other than as shown hereon, that would cause alteration to said contour line has occurred within the area surveyed.

Field Personnel:
H. Zavala - D. Meneses M. Velasquez

William E. Merten
Licensed State Land Surveyor



Filed for record in my office, the 18TH day of NOVEMBER, 2011, at 11 o'clock A.M. and duly recorded the 18TH day of NOVEMBER, 2011, in Book M, Page 409, of the County Surveyor's Records of Harris County, Texas.

BY: ROGER F. POER

FIELD NOTE DESCRIPTION:

Being the line of Mean Higher High Water of Galveston Bay along a portion of the Ritson Morris Survey, Abstract Number 52, Titled on November 14, 1832, in Harris County, Texas. The meander line of said Mean Higher High Water being more particularly described as follows (coordinates and bearings are grid values referenced to the Texas Coordinate System of 1983, South Central Zone and NGS Monuments "HGCSO 50" and "HGCSO 53". Distances shown are surface distances and may be converted to grid distances by multiplying by a scale factor of 0.999880014):

COMMENCING at NGS Monument "HGCSO 50" having grid coordinates of N=13,794,094.64 feet (4,965,874.070 varas) and E=3,238,565.01 feet (1,166,883.404 varas), from which NGS Monument "HGCSO 53" bears South 15°34'02" West, 20,133.16 feet (7,247.938 varas);

THENCE, South 16°27'43" East, a distance of 10,441.23 feet (3,758.844 varas) to a point on the meander line of Mean Higher High Water of Galveston Bay, on the easterly line of said Ritson Morris Survey and for the POINT OF BEGINNING and southwesterly end of said meander line having grid coordinates of N=13,784,082.61 feet (4,962,269.740 varas) and E=3,241,523.46 feet (1,166,948.446 varas);

THENCE, in a generally northeasterly direction, along said meander line of Mean Higher High Water of Galveston Bay and the easterly line of said Ritson Morris Survey the following fifteen (15) courses:

- South 27°53'12" West, a distance of 8.41 feet (3.026 varas) to an angle point;
- South 17°22'44" West, a distance of 21.61 feet (7.781 varas) to an angle point;
- South 13°59'57" East, a distance of 15.16 feet (5.458 varas) to an angle point;
- South 62°40'13" East, a distance of 21.91 feet (7.887 varas) to an angle point;
- South 88°28'30" East, a distance of 26.86 feet (9.670 varas) to an angle point;
- North 73°45'31" East, a distance of 25.99 feet (9.356 varas) to an angle point;
- North 53°22'06" East, a distance of 34.35 feet (12.364 varas) to an angle point;
- North 34°23'43" East, a distance of 54.47 feet (19.608 varas) to an angle point;
- North 43°02'35" East, a distance of 60.00 feet (21.600 varas) to an angle point;
- North 35°04'03" East, a distance of 51.93 feet (18.695 varas) to an angle point;
- North 35°21'40" East, a distance of 26.50 feet (9.539 varas) to an angle point;
- North 40°43'48" East, a distance of 20.08 feet (7.229 varas) to an angle point;
- North 55°13'54" East, a distance of 11.52 feet (4.148 varas) to an angle point;
- North 58°32'43" East, a distance of 24.58 feet (8.848 varas) to an angle point;
- North 46°27'48" East, a distance of 30.88 feet (11.117 varas) to the end of said meander line, having grid coordinates of N=13,784,265.60 feet (4,962,335.617 varas) and E=3,241,798.35 feet (1,167,047.406 varas).

A SURVEY OF GALVESTON BAY
ADJACENT TO
THE RITSON MORRIS SURVEY
ABSTRACT NUMBER 52
HARRIS COUNTY, TEXAS

CobbFendley

Texas Registration No. 274
13430 Northwest Freeway, Suite 1100 Houston, Texas 77040
713.462.3242 | fax 713.462.3282 | www.cobbfindley.com

CFA JOB NO. 1102-033-01 SCALE: 1" = 50' (18 VARAS)
DATE: OCTOBER 31, 2011 FB NO. 2169 SHEET 1 OF 1

GLO PERMIT NO.

FOR GENERAL LAND OFFICE USE ONLY

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code

Co. Harris, Sketch No. 17

File Date 08/20/2018 by R. Kartya



Surveying Division
Coastal Boundary Survey Approval

Project: Pine Gully Restoration Extension, Harris County

Project No: SL 20100062 (Texas General Land Office)

Project Manager: Mollie Powell, TGLO Regional Director, Upper Coast

Surveyor: William E. Merten, Licensed State Land Surveyor

Description: Coastal Boundary Survey, dated October 17, 2011, by Mr. William E. Merten, Licensed State Land Surveyor, delineating the line of Mean Higher High Water along the western shore of Galveston Bay, same line being a portion of the littoral boundary line of the Ritson Morris Survey, Abstract 52 and the westerly boundary of Galveston Bay Submerged Land Tract 256. The survey is in support of a rock jetty breakwater construction and seagrass planting project and is situated at Pine Gully Park, Harris County, coordinates N29°35'26" (29.590603°) W94°59'35" (94.993159°). The line serves as the northerly extension of a previously approved survey at the mouth of Pine Gulley.

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: [Signature]
Survey Division

[Signature]
Date

Approval Filed as:

Tex. Nat. Res. Code Article 33.136, Harris County Report No. 17

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Harris, Sketch No. 17
File Date 06/20/2013 by R. Kurtze

LETTER OF TRANSMITTAL

To: Texas General Land Office
P.O. Box 12873
Austin, Texas 78711-2873

Date: November 18, 2011
CobbFendley Job: 1102-034-01
Re: Pine Gully Extension
Ritson Morris Survey
Harris County, Texas

ATTENTION: Mr. David Pyle, RPLS, LSLs

WE ARE SENDING YOU THE FOLLOWING VIA: FEDEX

Prints Originals Other _____

QUANTITY	DESCRIPTION
1	Plat of Survey – Mylar
1	Plat of Survey – Bond

PURPOSE OF TRANSMITTAL:

- For Approval For Your Use
 As Requested For Review & Comment

REMARKS:

Please call if you have any questions
Thanks

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Harris, Sketch No. 17
File Date 06/20/2019 by R. Kartye

Copy To File

SIGNED 
William E. Merten, RPLS, LSLs

From: David Pyle
To: Bill O'Hara; Douglas Howard; William Merten
Date: Wednesday, November 30, 2011 2:28 PM
Subject: Re: 33.136 NRC Survey, Harris County

Thanks Bill M.

Doug: This is a Coastal Boundary Survey that is ready for approval once the revisions are made. I have the mylar in my office.

David A. Pyle, RPLS, LSLs
Land Surveyor III
Professional Services/Surveying Division
Texas General Land Office
ph. (512) 463-5229
e-mail david.pyle@glo.texas.gov
>>> "William Merten" <WMERTEN@cobbfendley.com> 11/30/2011 2:24 PM >>>

Hi Bill and Doug
David Pyle asked me to request that the following information be put on the final survey plat entitled "A Survey of Galveston Bay Adjacent to the Ritson Morris Survey, Abstract Number 52, Harris County, Texas" dated October 31, 2011.

1. GLO Permit Number SL20100062
2. Erosion Response Work is Construction of a Rock Jetty Breakwater for Pine Gully

If you have any questions, please do not hesitate to give me a call
Thanks
Bill

William E. (Bill) Merten, RPLS, LSLs
bmerten@cobbfendley.com (mailto:bmerten@cobfen.com)

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http://www.cobfen.com/)

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
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File Date 06/20/2018 by R. Karlye