

**DRAWING INDEX**

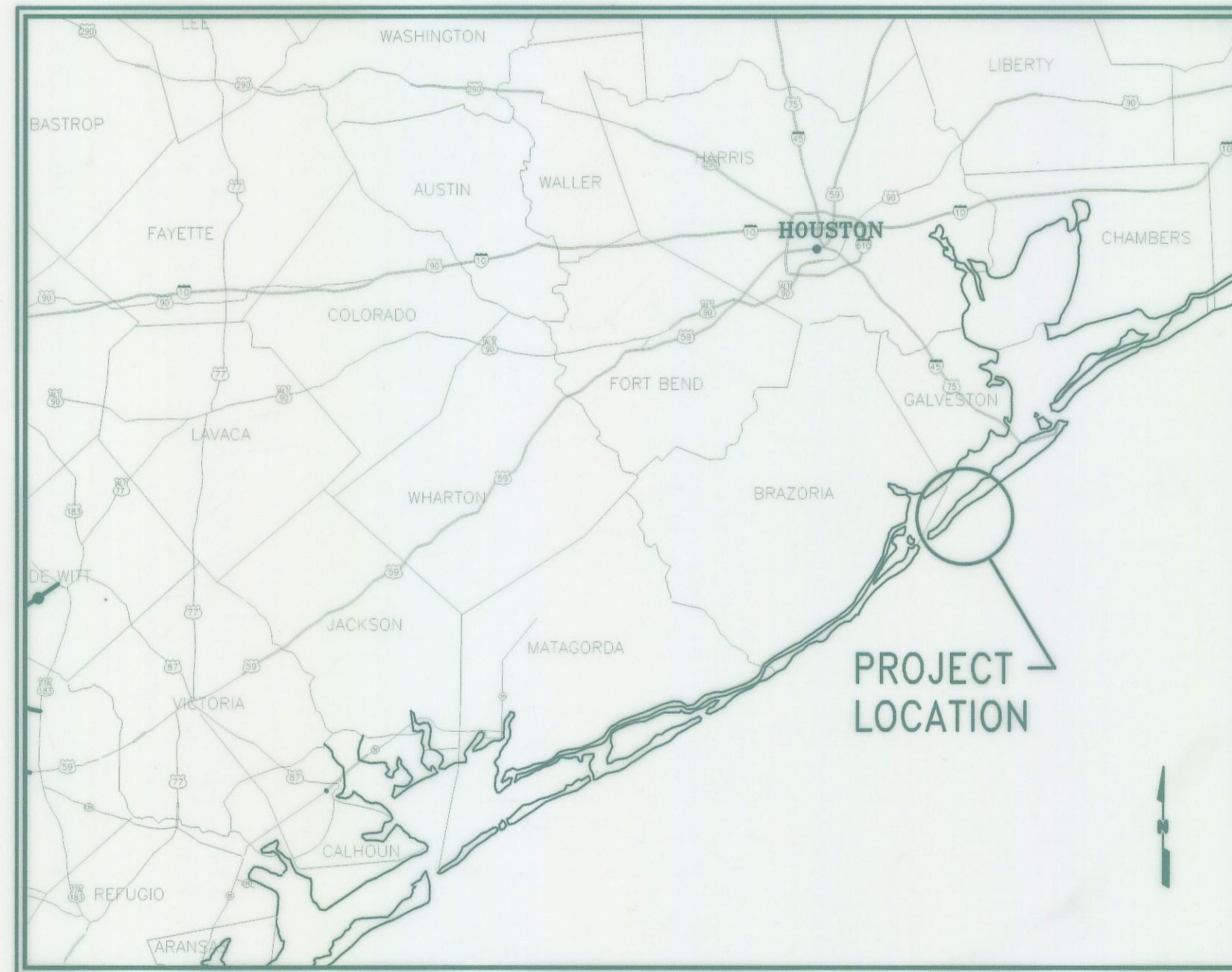
SHEET NO.	TITLE
G1	COVER SHEET & INDEX
G2	SURVEY CONTROL MAP
C1	SITE PLAN
C2	SITE PLAN
C3	SITE PLAN
C4	SITE PLAN
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C8	SITE PLAN
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C12	SITE PLAN
C13	SITE PLAN
C14	SITE PLAN
C15	SITE PLAN
C16	SITE PLAN
C17	SITE PLAN

CONSTRUCTION PLANS FOR  
**BEACH SURVEY OF  
 WEST GALVESTON ISLAND**

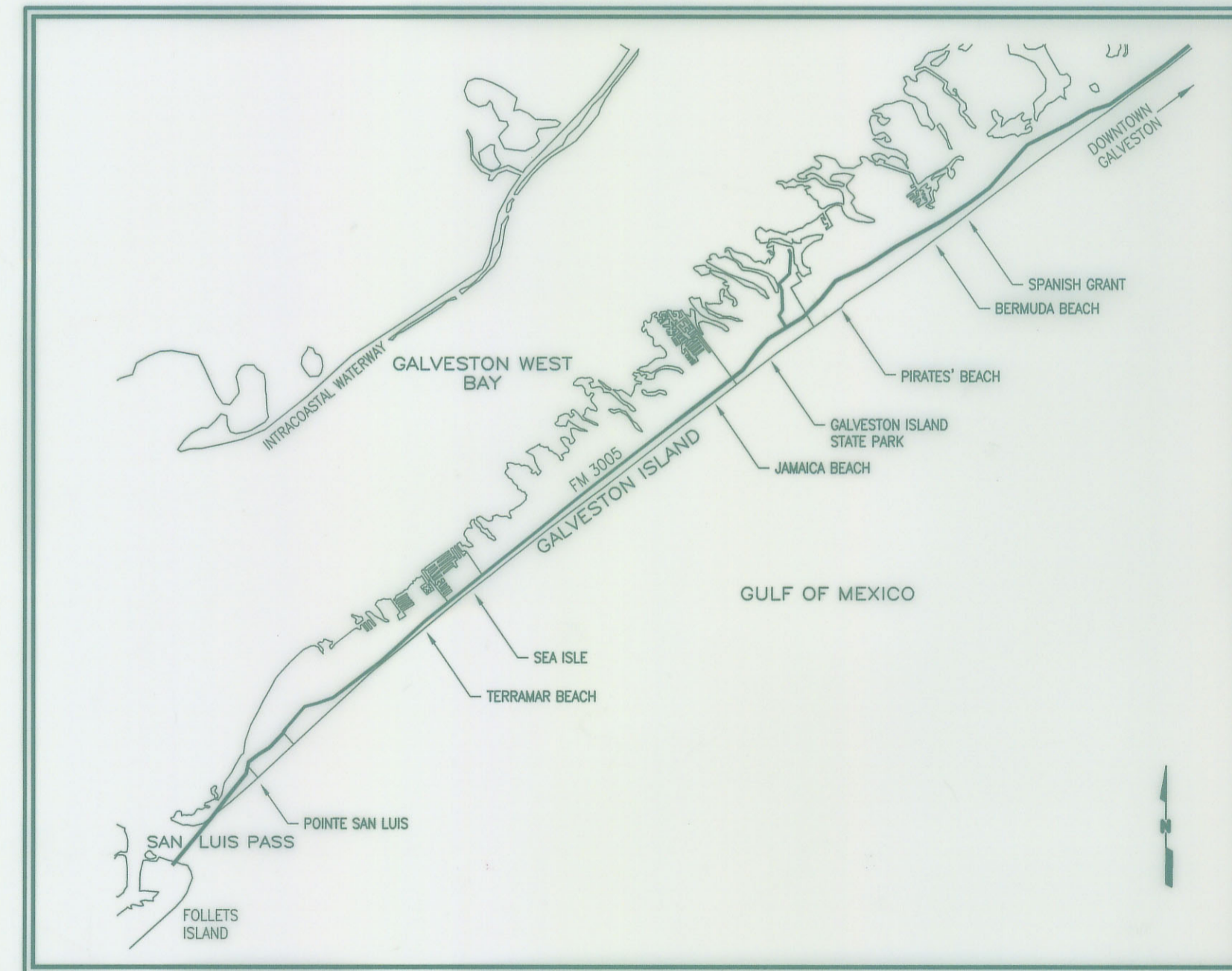
FOR  
**CITY OF GALVESTON**

BY  
**SHINER MOSELEY AND ASSOCIATES, INC.  
 CORPUS CHRISTI / HOUSTON, TEXAS**

**2001**



VICINITY MAP



LOCATION MAP

*See Report in box.  
 See Galveston Co. Art. 33.136 Report No. 2*

TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 Sht. 1 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRU	03/01	03/01	04/01	SCALE	PROJ. #
DJH				NONE	00196-G1
GJH					200.00196

SHINER MOSELEY AND ASSOCIATES, INC.  
 ENGINEERS & CONSULTANTS  
 555 North Carancahua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF  
 WEST GALVESTON ISLAND**  
 TEXAS  
**COVER SHEET & INDEX**

SHEET  
**G1**  
 OF 19 REV 1



**NOTES:**

- MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL ARE SHOWN ON SHEET G2.
- COORDINATES SHOWN ARE IN FEET BASED ON LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
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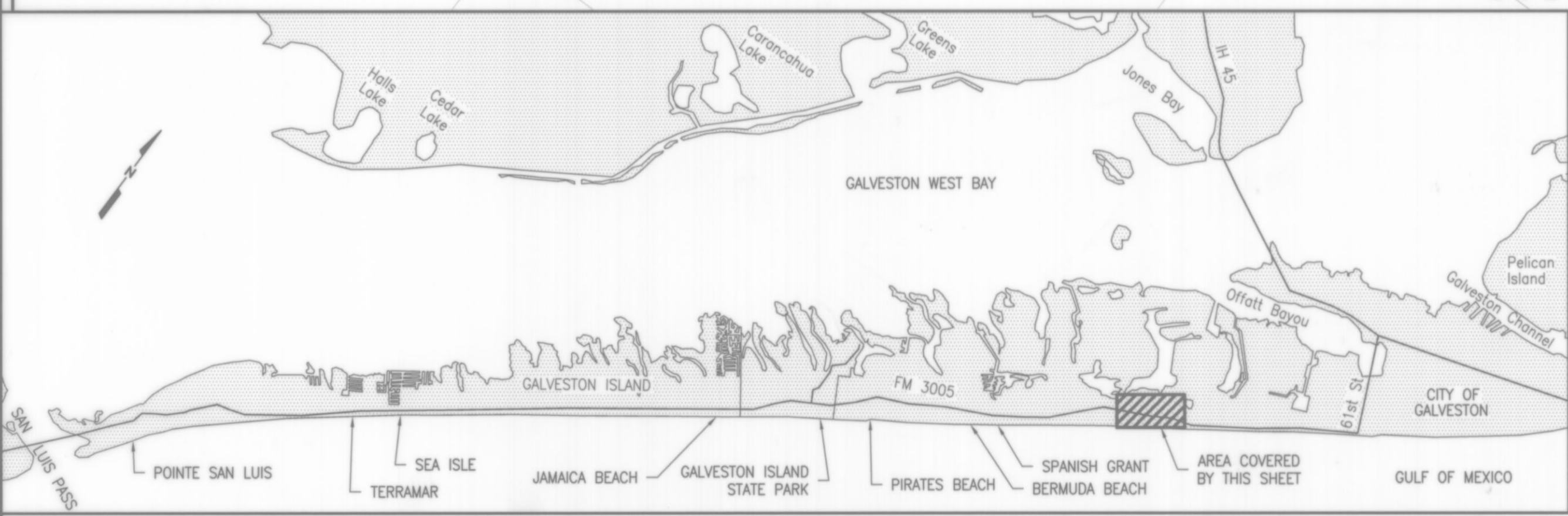
TIDAL DATUM ELEVATIONS REFERENCED TO NAVD '88 (BASED ON DATA PROVIDED BY NOAA FOR GALVESTON PLEASURE PIER)

- MEAN HIGHER HIGH WATER (MHHW) = +1.40 FEET
- MEAN HIGH WATER (MHW) = +1.23 FEET
- MEAN TIDE LEVEL (MTL) = +0.48 FEET
- MEAN SEA LEVEL (MSL) = +0.47 FEET
- MEAN LOW WATER (MLW) = -0.26 FEET
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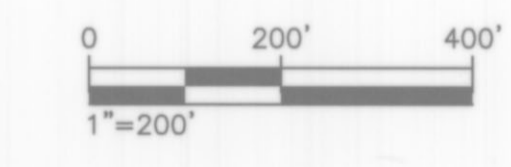
- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
1-1	3,281,401.86	13,655,996.13
1-2	3,281,805.80	13,656,284.13
1-3	3,282,198.03	13,656,604.66
1-4	3,282,597.92	13,656,891.90
1-5	3,283,012.06	13,657,176.90
1-6	3,283,368.27	13,657,346.77
1-7	3,283,601.91	13,657,552.88
1-8	3,283,828.74	13,657,744.44
1-9	3,284,220.30	13,658,061.89
1-10	3,284,623.18	13,658,349.81
1-11	3,285,047.75	13,658,618.25
1-12	3,285,502.27	13,658,842.44



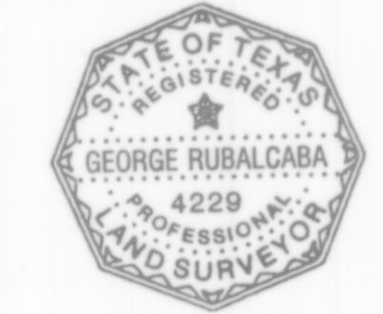
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*George Rubalcaba*  
 GEORGE RUBALCABA  
 REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
 MICHAEL HAAS, RPLS  
 LICENSED STATE LAND SURVEYOR  
 Licensed State Land Surveyor  
 See Galveston Co Art. 33.136 Report No. 2



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 Sht. 3 of 19

APP	DESCRIPTION	DATE	REV	03/01	03/01	04/01	DRJ	DJH	GJH	SCALE	NO.
	FOR CITY/GLO REVIEW	4/12/01	0								
	ORIGINAL ISSUE	6/29/01	1							1"=200'	200.00196
											00196-C1
											200.00196

SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 555 North Carancahua Street, Suite 1650 Corpus Christi, Texas 78478	<b>CITY OF GALVESTON</b> <b>BEACH SURVEY OF WEST GALVESTON ISLAND</b> TEXAS	<b>SITE PLAN</b>
	SHEET	OF 19
	<b>C1</b>	REV 1

**NOTES:**

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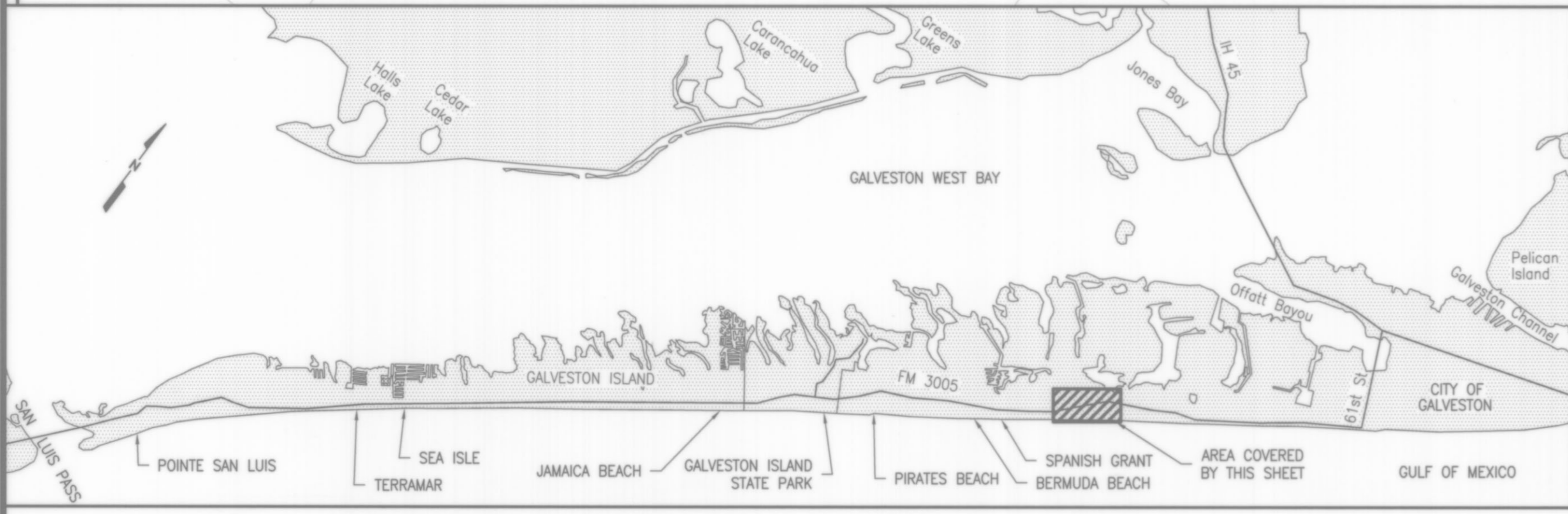
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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
2-1	3,276,392.22	13,652,277.70
2-2	3,276,826.75	13,652,575.45
2-3	3,277,233.34	13,652,888.54
2-4	3,277,652.81	13,653,209.93
2-5	3,278,070.37	13,653,536.81
2-6	3,278,502.79	13,653,860.24
2-7	3,278,933.78	13,654,178.46
2-8	3,279,373.91	13,654,509.55
2-9	3,279,782.38	13,654,817.68
2-10	3,280,184.95	13,655,101.31
2-11	3,280,590.59	13,655,417.36
2-12	3,280,977.56	13,655,692.57



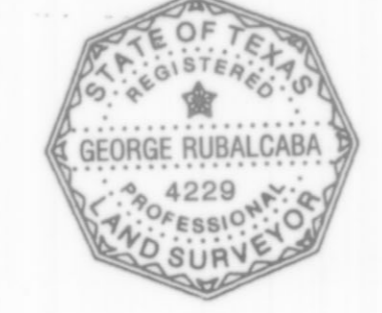
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TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D. J. H.  
 Sht. 4 of 19

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1	6/29/01	ORIGINAL ISSUE	

NO	DRJ	REV	DATE	DESCRIPTION	APP
1	DJH	03/01	03/01		
2	GJH	04/01	04/01		

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 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 GALVESTON  
**SITE PLAN**

SHEET  
**C2**  
 OF 19 REV 1

**NOTES:**

1. MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL ARE SHOWN ON SHEET C2.
2. COORDINATES SHOWN ARE IN FEET BASED ON LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
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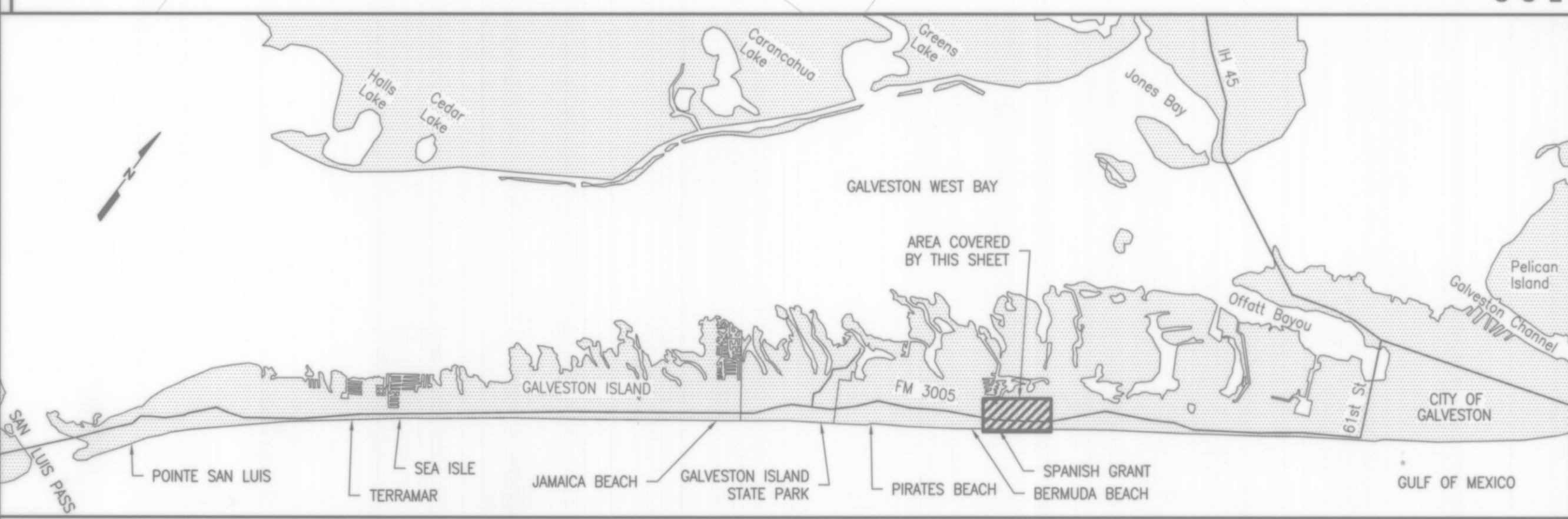
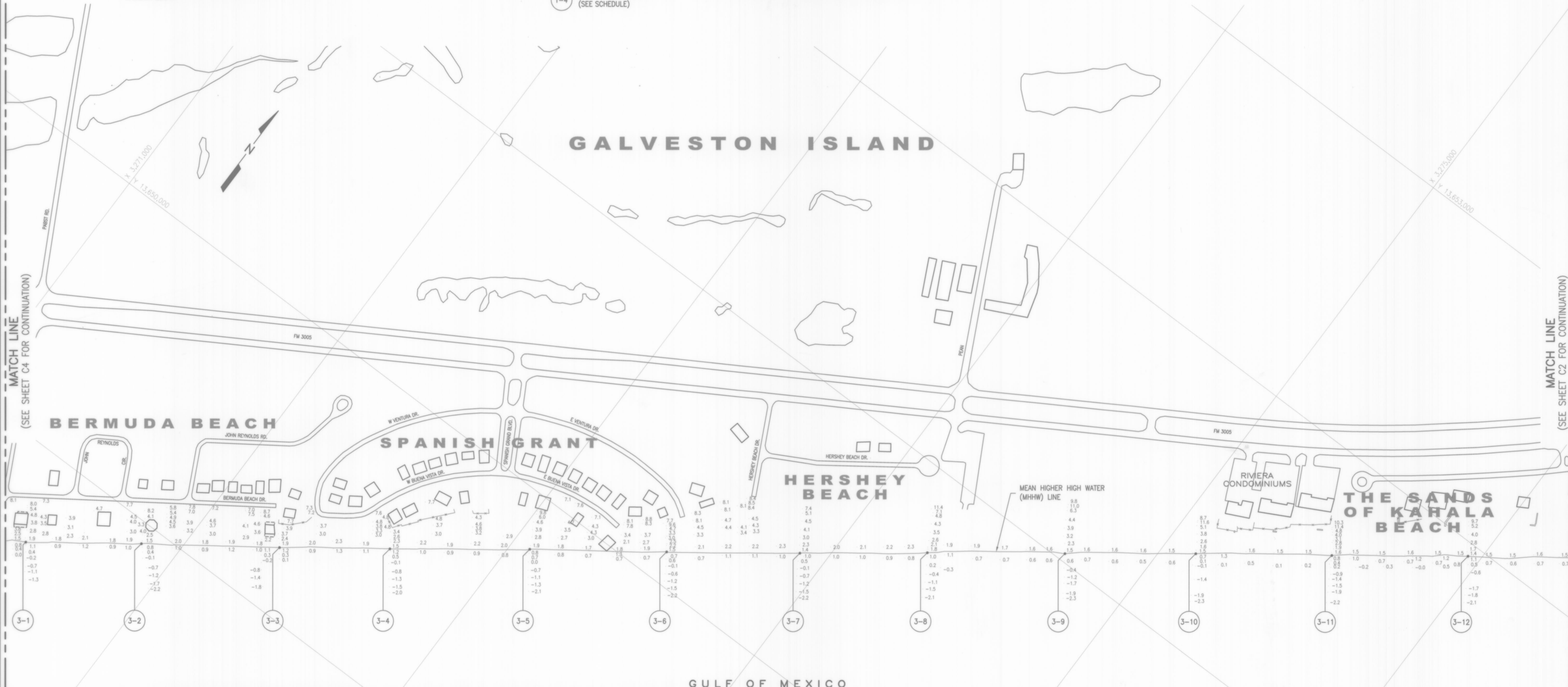
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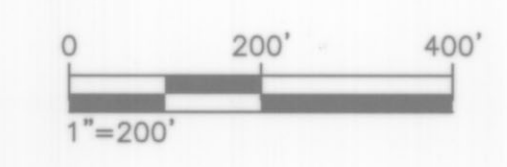
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- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
3-1	3,271,511.11	13,648,664.96
3-2	3,271,867.77	13,648,926.76
3-3	3,272,298.91	13,649,233.76
3-4	3,272,639.74	13,649,484.67
3-5	3,273,068.81	13,649,806.66
3-6	3,273,493.52	13,650,114.57
3-7	3,273,903.77	13,650,418.32
3-8	3,274,292.29	13,650,714.10
3-9	3,274,715.70	13,651,029.30
3-10	3,275,116.62	13,651,332.37
3-11	3,275,537.08	13,651,641.68
3-12	3,275,955.21	13,651,953.62



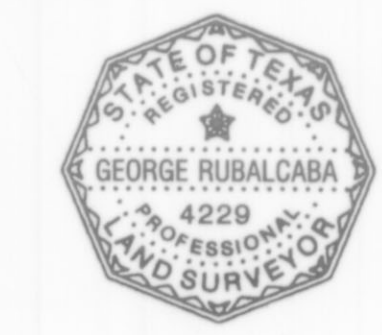
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*Michael Haas*  
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 Licensed State Land Surveyor



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4

File Date July 2, 2001 by D.J.H. sht. 5 of 19

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1	6/29/01	ORIGINAL ISSUE	

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			1"=200'	03/01	
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				04/01	
			00196-C3		
			200.00196		

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 555 North Cananahus Street, Suite 1650  
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CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 GALVESTON TEXAS

**SITE PLAN**

SHEET **C3**  
 OF 19 REV 1

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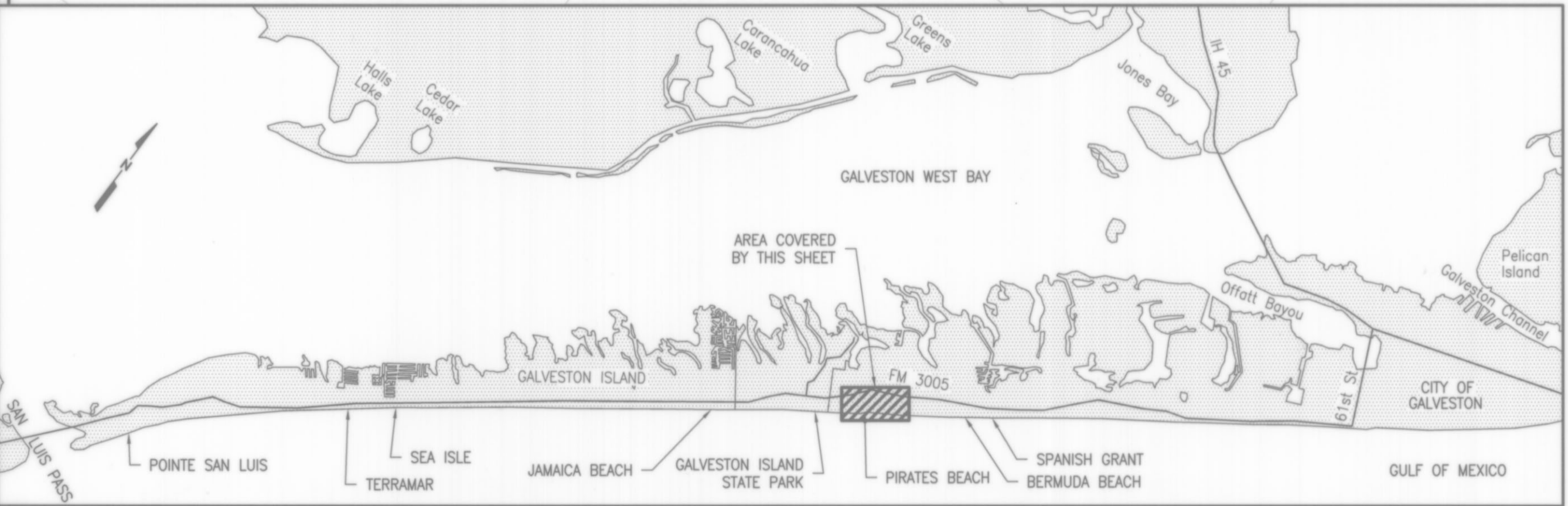
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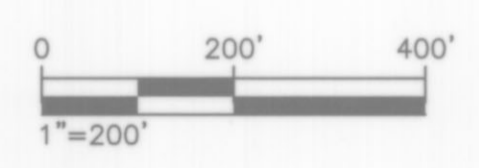
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- MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
5-1	3,261,778.54	13,641,599.23
5-2	3,262,170.93	13,641,879.17
5-3	3,262,595.00	13,642,187.05
5-4	3,262,983.98	13,642,468.31
5-5	3,263,445.73	13,642,796.02
5-6	3,263,800.48	13,643,050.42
5-7	3,264,220.30	13,643,354.77
5-8	3,264,606.34	13,643,638.93
5-9	3,264,971.85	13,643,903.03
5-10	3,265,417.10	13,644,223.19
5-11	3,265,861.21	13,644,546.81
5-12	3,266,228.49	13,644,816.62



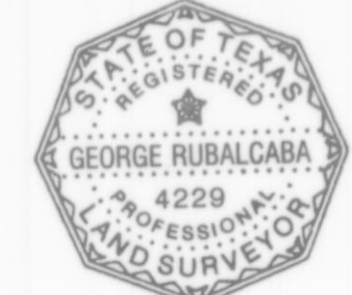
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CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 GALVESTON TEXAS  
**SITE PLAN**

SHEET  
**C5**  
 OF 19 REV 1

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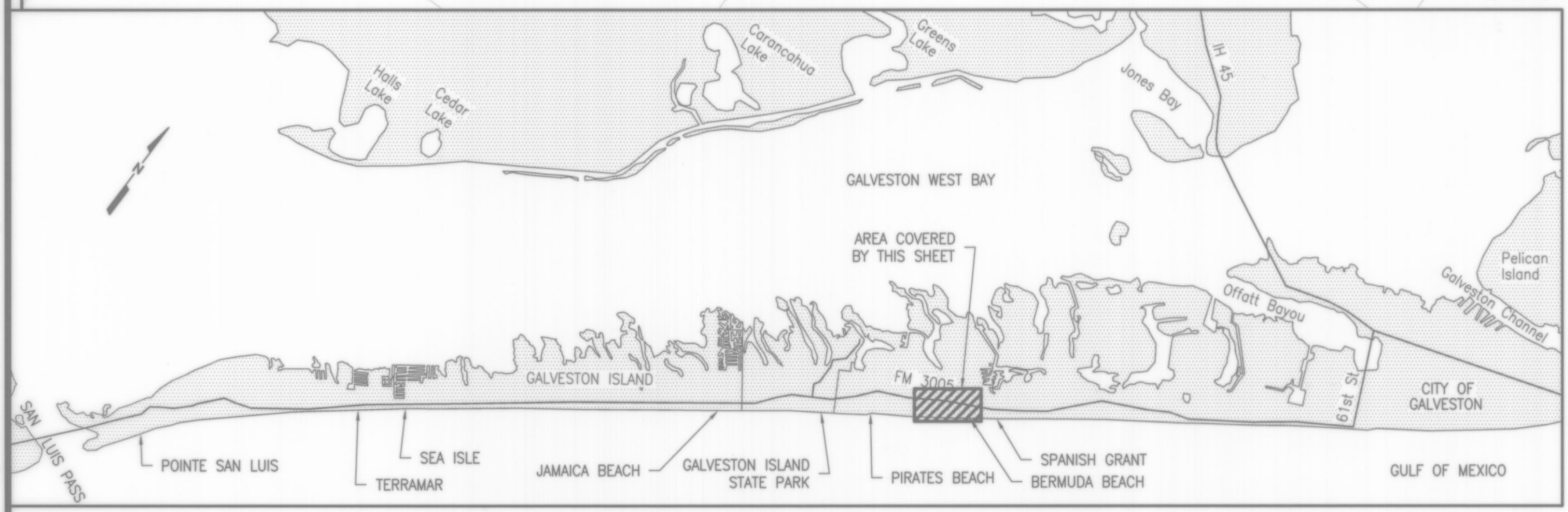
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**LEGEND:**

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- POND
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- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
4-1	3,266,607.34	13,645,095.47
4-2	3,267,000.00	13,645,382.89
4-3	3,267,429.11	13,645,694.97
4-4	3,267,842.03	13,645,994.24
4-5	3,268,254.10	13,646,297.10
4-6	3,268,645.74	13,646,575.71
4-7	3,269,046.47	13,646,867.20
4-8	3,269,455.47	13,647,168.23
4-9	3,269,840.78	13,647,452.86
4-10	3,270,267.17	13,647,751.30
4-11	3,270,695.66	13,648,065.84
4-12	3,271,081.39	13,648,343.28



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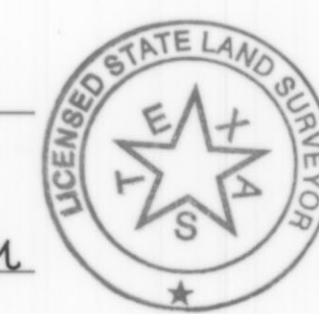
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 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 Sht. 6 of 19

APP	DATE	DESCRIPTION
0	4/12/01	FOR CITY/GLO REVIEW
1	6/29/01	ORIGINAL ISSUE

REV	DATE	DESCRIPTION
0	03/01	
1	03/01	
2	04/01	

DRU	DRJ	DJH	GJH
03/01	03/01	04/01	

1"=200'

00196-C4

200.00196

SHINER MOSELEY AND ASSOCIATES, INC.  
 ENGINEERS & CONSULTANTS  
 555 North Carancahua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
 GALVESTON

**SITE PLAN**

SHEET  
**C4**  
 OF 19 REV 1

**NOTES:**

- MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL ARE SHOWN ON SHEET G2.
- COORDINATES SHOWN ARE IN FEET BASED ON LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
- ELEVATIONS AND CONTOURS SHOWN ARE IN FEET BASED ON NAVD '88.
- ALL SURVEYING WAS PERFORMED BY SHINER MOSELEY & ASSOCIATES, INC. DURING DECEMBER 2000 AND JANUARY 2001.

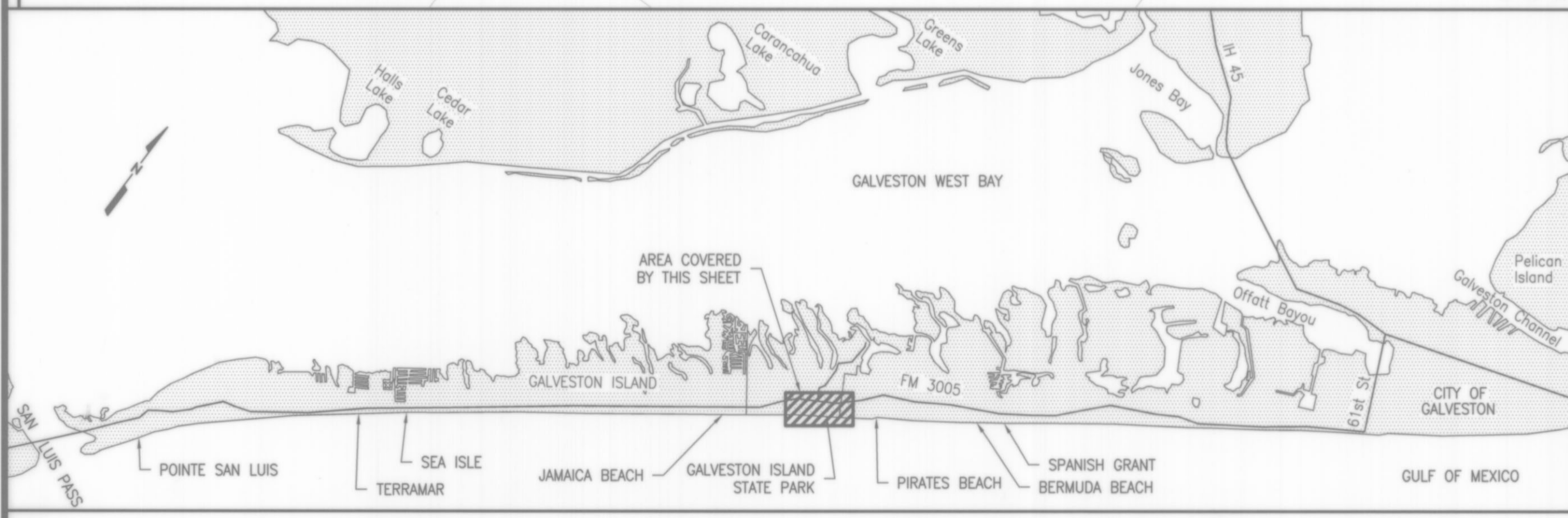
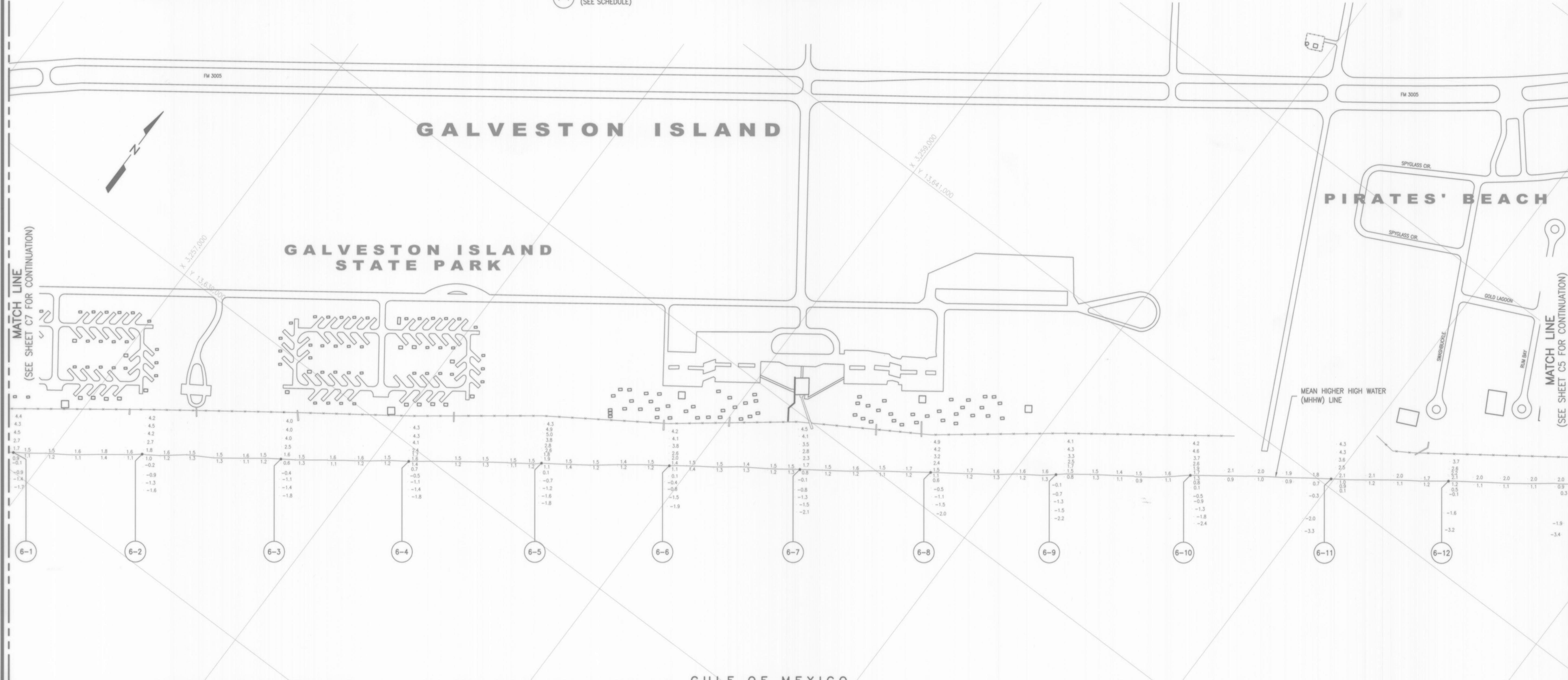
TIDAL DATUM ELEVATIONS REFERENCED TO NAVD '88  
(BASED ON DATA PROVIDED BY NOAA  
FOR GALVESTON PLEASURE PIER)

- MEAN HIGHER HIGH WATER (MHHW) = +1.40 FEET
- MEAN HIGH WATER (MHW) = +1.23 FEET
- MEAN TIDE LEVEL (MTL) = +0.48 FEET
- MEAN SEA LEVEL (MSL) = +0.47 FEET
- MEAN LOW WATER (MLW) = -0.26 FEET
- MEAN LOWER LOW WATER (MLLW) = -0.69 FEET

**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
6-1	3,256,887.45	13,638,060.42
6-2	3,257,285.75	13,638,352.97
6-3	3,257,722.42	13,638,659.04
6-4	3,258,119.91	13,638,947.94
6-5	3,258,531.60	13,639,249.85
6-6	3,258,929.45	13,639,537.31
6-7	3,259,337.99	13,639,828.33
6-8	3,259,745.47	13,640,121.96
6-9	3,260,135.43	13,640,405.91
6-10	3,260,549.87	13,640,715.46
6-11	3,260,990.08	13,641,031.08
6-12	3,261,354.93	13,641,295.71



WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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 ON THE PUBLIC BEACH, 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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.



*George Rubalcaba*  
 GEORGE RUBALCABA  
 REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
 MICHAEL HAAS, RPLS  
 LICENSED STATE LAND SURVEYOR  
*Licensed State Land Surveyor*



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 sht. 8 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRJ	DATE	SCALE
DJH	03/01	1"=200'
GJH	04/01	00196-C6
		200.00196

SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 555 North Carancahua Street, Suite 1650 Corpus Christi, Texas 78478
<b>BEACH SURVEY OF WEST GALVESTON ISLAND</b> TEXAS
<b>SITE PLAN</b>
SHEET <b>C6</b>
OF 19 REV 1





**NOTES:**

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- COORDINATES SHOWN ARE IN FEET BASED ON LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
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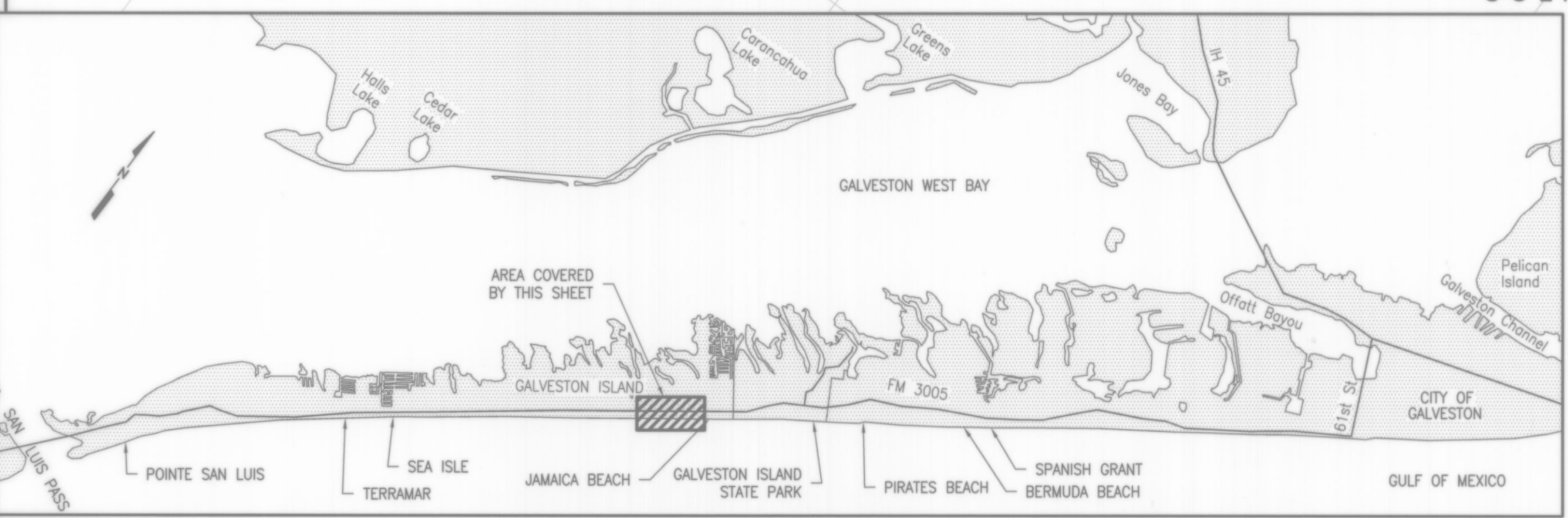
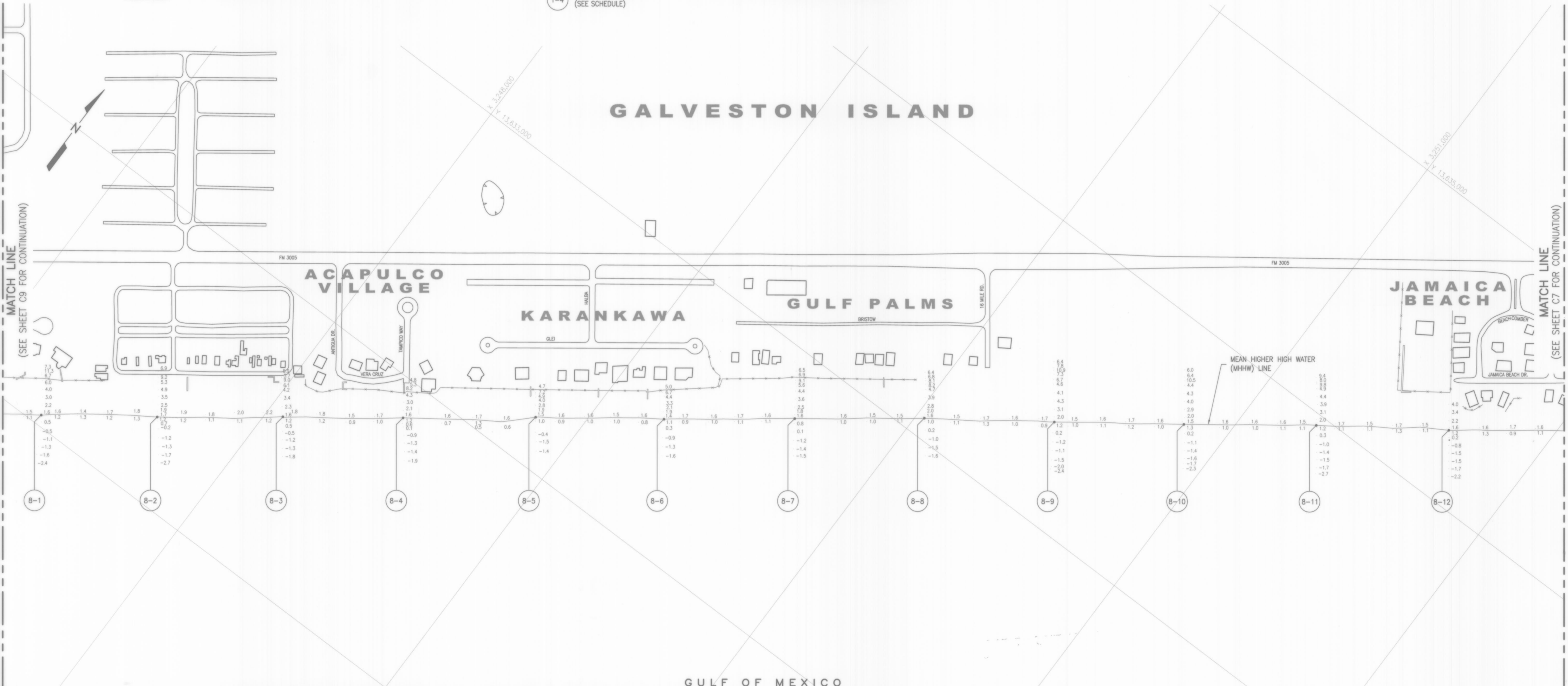
TIDAL DATUM ELEVATIONS REFERENCED TO NAVD '88 (BASED ON DATA PROVIDED BY NOAA FOR GALVESTON PLEASURE PIER)

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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- 1-4 MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
8-1	3,247,316.37	13,631,038.29
8-2	3,247,676.18	13,631,300.96
8-3	3,248,060.69	13,631,592.07
8-4	3,248,431.58	13,631,866.85
8-5	3,248,836.96	13,632,175.91
8-6	3,249,235.06	13,632,467.02
8-7	3,249,634.50	13,632,771.65
8-8	3,250,030.60	13,633,072.92
8-9	3,250,438.37	13,633,362.27
8-10	3,250,841.31	13,633,655.59
8-11	3,251,250.15	13,633,960.09
8-12	3,251,667.78	13,634,251.95



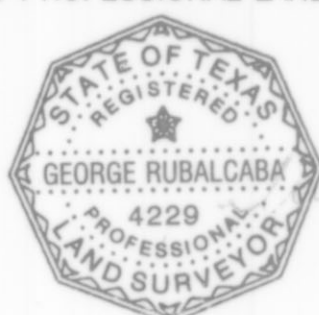
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*Licensed State Land Surveyor*



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4

File Date July 2, 2001 by D.J.H.  
 sh. 10 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

REV	DATE	DESCRIPTION	APP
03/01	03/01		
04/01	04/01		

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 ENGINEERS & CONSULTANTS  
 555 North Caranchua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
**SITE PLAN**

SHEET  
**C8**  
 OF 19 REV 1

**NOTES:**

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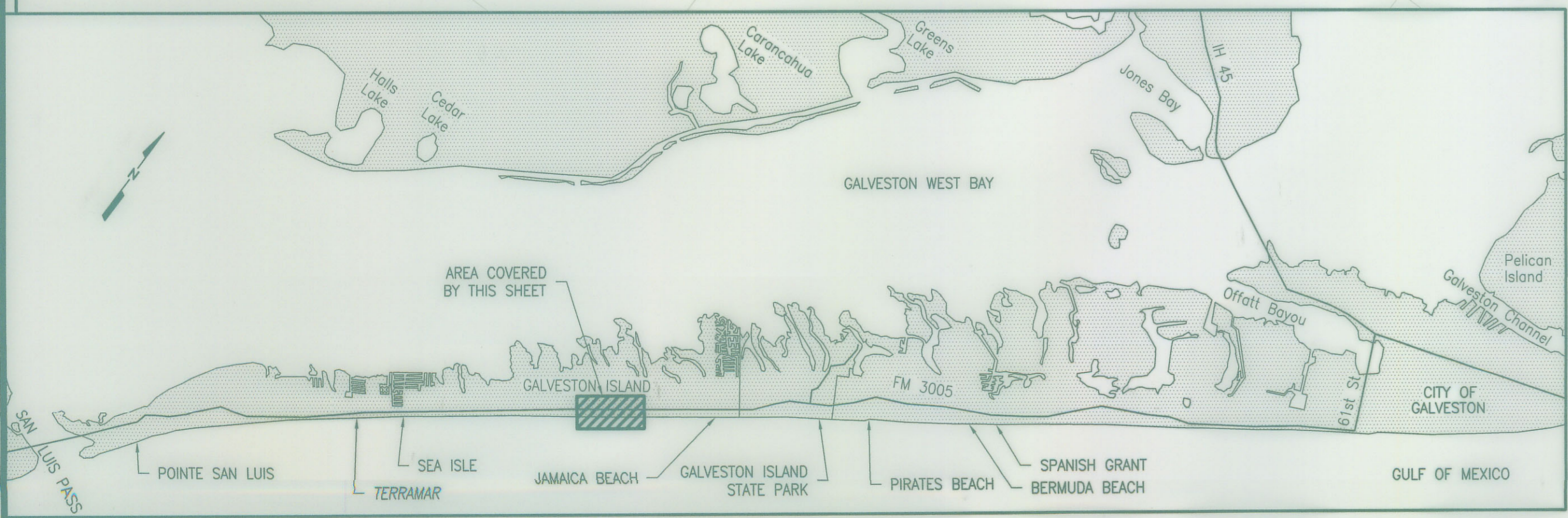
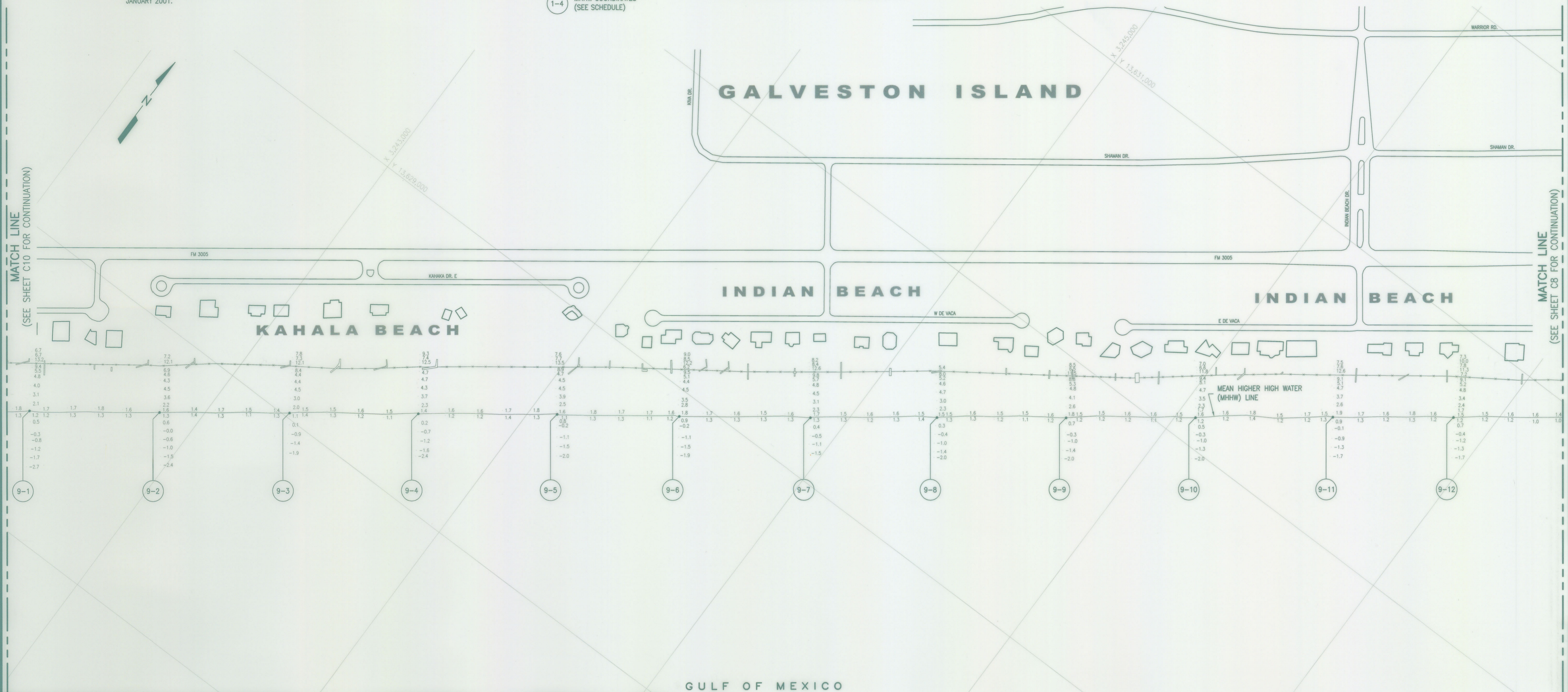
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**LEGEND:**

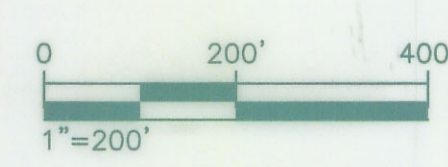
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- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- 1-4 MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
9-1	3,242,454.08	13,627,420.57
9-2	3,242,859.41	13,627,718.27
9-3	3,243,263.64	13,628,019.05
9-4	3,243,663.59	13,628,315.80
9-5	3,244,093.19	13,628,635.88
9-6	3,244,473.21	13,628,911.40
9-7	3,244,879.12	13,629,209.61
9-8	3,245,288.81	13,629,503.78
9-9	3,245,667.38	13,629,801.80
9-10	3,246,065.52	13,630,101.98
9-11	3,246,487.10	13,630,421.44
9-12	3,246,859.27	13,630,699.60



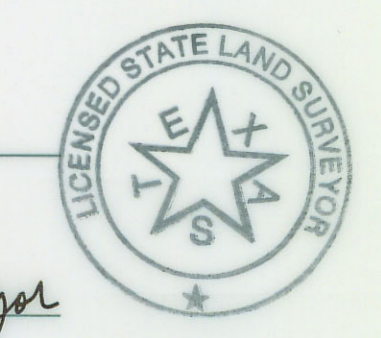
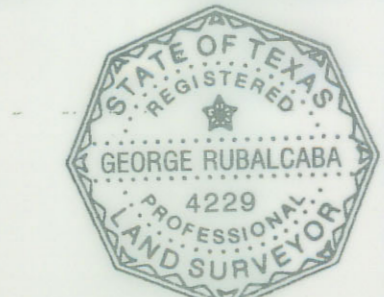
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 Licensed State Land Surveyor



See report in box  
 TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.S.H.  
 sht. 11 of 19

APP	DESCRIPTION	DATE	REV
	FOR CITY/GLO REVIEW	4/12/01	0
	ORIGINAL ISSUE	6/29/01	1

DRU	DJH	GJH
03/01	03/01	04/01

1"=200'
00196-C9
200.00196

SHINER MOSELEY AND ASSOCIATES, INC.  
 ENGINEERS & CONSULTANTS  
 555 North Curranahua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
 GALVESTON  
**SITE PLAN**

SHEET  
**C9**  
 OF 19 REV 1

**NOTES:**

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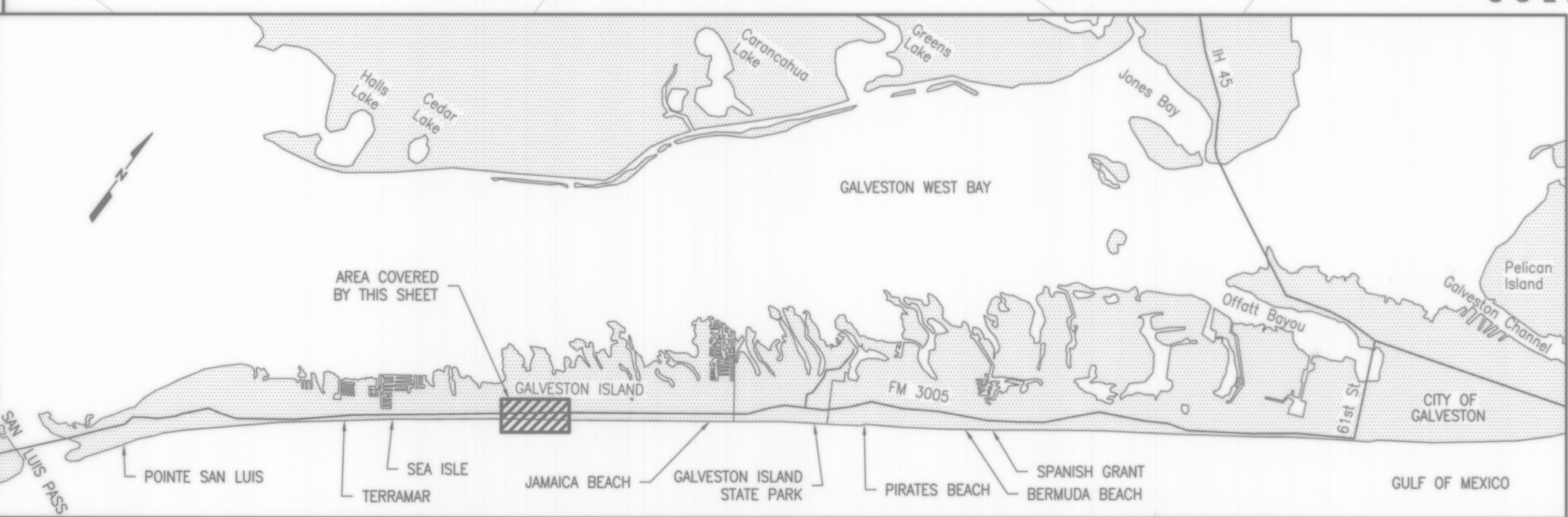
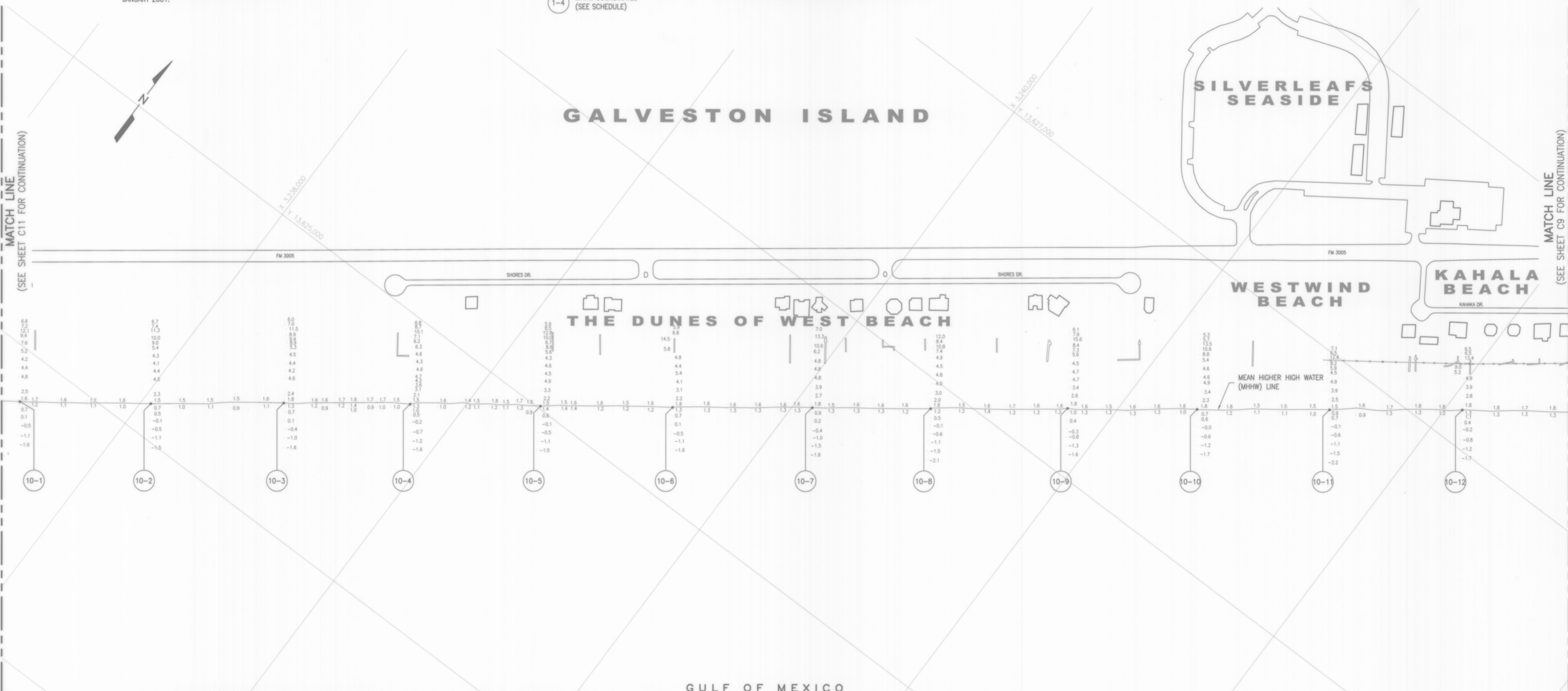
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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
10-1	3,237,629.83	13,623,824.58
10-2	3,238,033.84	13,624,119.70
10-3	3,238,437.81	13,624,428.10
10-4	3,238,826.76	13,624,715.66
10-5	3,239,230.13	13,625,010.48
10-6	3,239,636.27	13,625,311.17
10-7	3,240,063.51	13,625,632.81
10-8	3,240,427.08	13,625,902.40
10-9	3,240,845.40	13,626,219.19
10-10	3,241,243.73	13,626,516.21
10-11	3,241,649.53	13,626,820.92
10-12	3,242,055.21	13,627,126.18



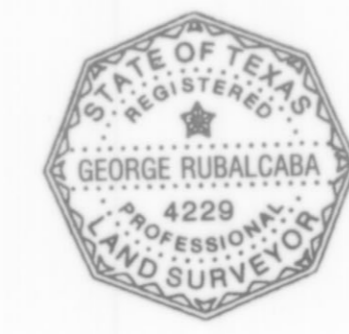
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*Licensed State Land Surveyor*



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 sht. 12 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

REV	DATE	DESCRIPTION	APP
03/01	03/01		
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04/01	04/01		

DRJ	DJH	GJH	1" = 200'
00196-C10	00196-C10	200.00196	

SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 555 North Carancahua Street, Suite 1650 Corpus Christi, Texas 78478	
CITY OF GALVESTON BEACH SURVEY OF WEST GALVESTON ISLAND TEXAS	SITE PLAN
SHEET <b>C10</b>	OF 19 REV 1

**NOTES:**

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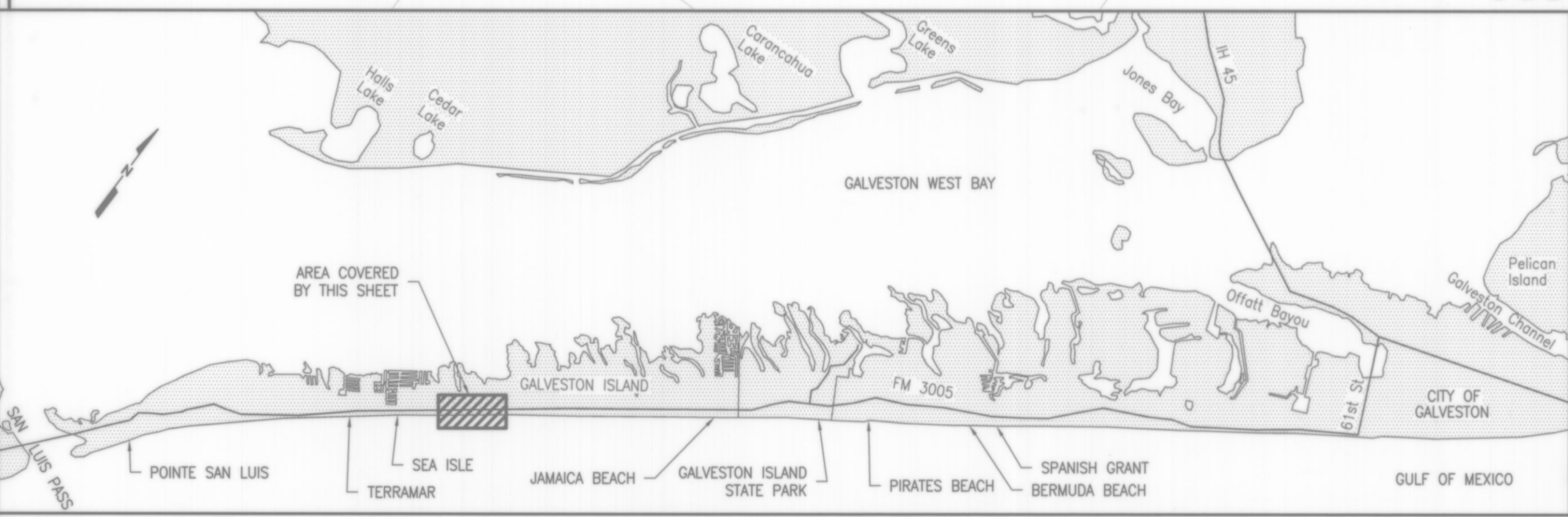
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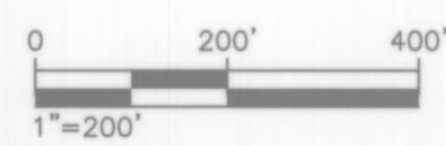
- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- 1-4 MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
11-1	3,232,984.98	13,620,316.29
11-2	3,233,085.74	13,620,384.75
11-3	3,233,519.33	13,620,691.83
11-4	3,233,965.87	13,621,037.57
11-5	3,234,373.02	13,621,350.50
11-6	3,234,826.05	13,621,717.31
11-7	3,235,226.77	13,622,026.39
11-8	3,235,624.88	13,622,323.92
11-9	3,236,020.48	13,622,625.29
11-10	3,236,418.03	13,622,926.07
11-11	3,236,846.13	13,623,240.16
11-12	3,237,213.15	13,623,515.30



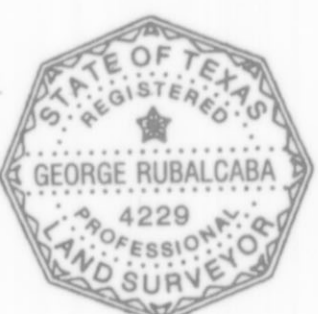
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 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D. J. H.  
 Sht. 13 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRJ	DJH	GJH	SCALE	DATE	PROJECT
			1"=200'	00196-C11	200.00196

 SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 555 North Curran Street, Suite 1650 Corpus Christi, Texas 78478	CITY OF GALVESTON <b>BEACH SURVEY OF WEST GALVESTON ISLAND</b> TEXAS	GALVESTON <b>SITE PLAN</b>
	SHEET <b>C11</b> OF 19 REV 1	

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- ELEVATIONS AND CONTOURS SHOWN ARE IN FEET BASED ON NAVD '88.
- ALL SURVEYING WAS PERFORMED BY SHINER MOSELEY & ASSOCIATES, INC. DURING DECEMBER 2000 AND JANUARY 2001.

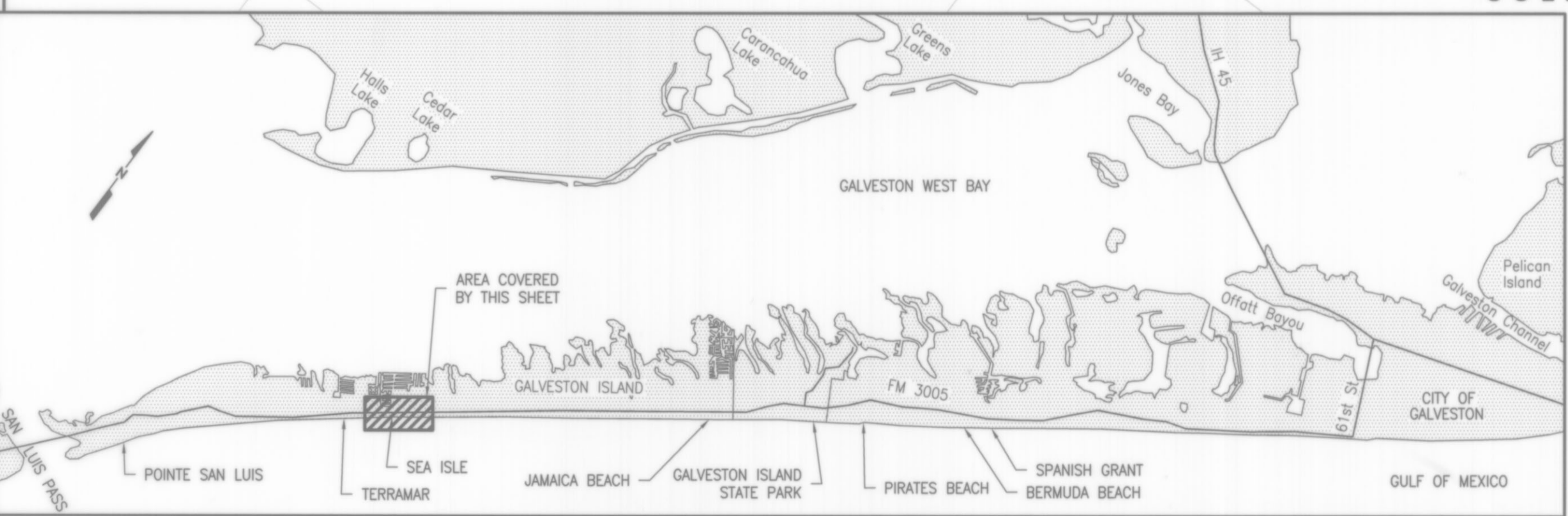
TIDAL DATUM ELEVATIONS REFERENCED TO NAVD '88  
(BASED ON DATA PROVIDED BY NOAA  
FOR GALVESTON PLEASURE PIER)

MEAN HIGHER HIGH WATER (MHHW) = +1.40 FEET  
MEAN HIGH WATER (MHW) = +1.23 FEET  
MEAN TIDE LEVEL (MTL) = +0.48 FEET  
MEAN SEA LEVEL (MSL) = +0.47 FEET  
MEAN LOW WATER (MLW) = -0.26 FEET  
MEAN LOWER LOW WATER (MLLW) = -0.69 FEET

**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- 1-4 MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
12-1	3,228,288.89	13,616,665.65
12-2	3,228,685.85	13,616,978.48
12-3	3,229,061.79	13,617,288.97
12-4	3,229,441.41	13,617,578.51
12-5	3,229,827.67	13,617,873.60
12-6	3,230,188.54	13,618,156.97
12-7	3,230,607.75	13,618,487.40
12-8	3,231,002.36	13,618,784.89
12-9	3,231,398.51	13,619,096.09
12-10	3,231,804.13	13,619,415.69
12-11	3,232,189.50	13,619,712.65
12-12	3,232,606.10	13,620,027.59



WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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 ON THE PUBLIC BEACH, 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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.



*George Rubalcaba*  
 GEORGE RUBALCABA  
 REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
 MICHAEL HAAS, RPLS  
 LICENSED STATE LAND SURVEYOR  
*Licensed State Land Surveyor*



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001, by D.J.H.  
 sht. 14 of 19

APP	DESCRIPTION	DATE	REV
	FOR CITY/GLO REVIEW	4/12/01	0
	ORIGINAL ISSUE	6/29/01	1

DR	DATE	SCALE	NO.
DJH	03/01	1"=200'	00196-C12
GJH	04/01		200.00196

SHINER MOSELEY AND ASSOCIATES, INC. ENGINEERS & CONSULTANTS 555 North Carancahua Street, Suite 1650 Corpus Christi, Texas 78478	
CITY OF GALVESTON <b>BEACH SURVEY OF WEST GALVESTON ISLAND</b> TEXAS	<b>SITE PLAN</b>
SHEET <b>C12</b>	
OF 19 REV 1	

**NOTES:**

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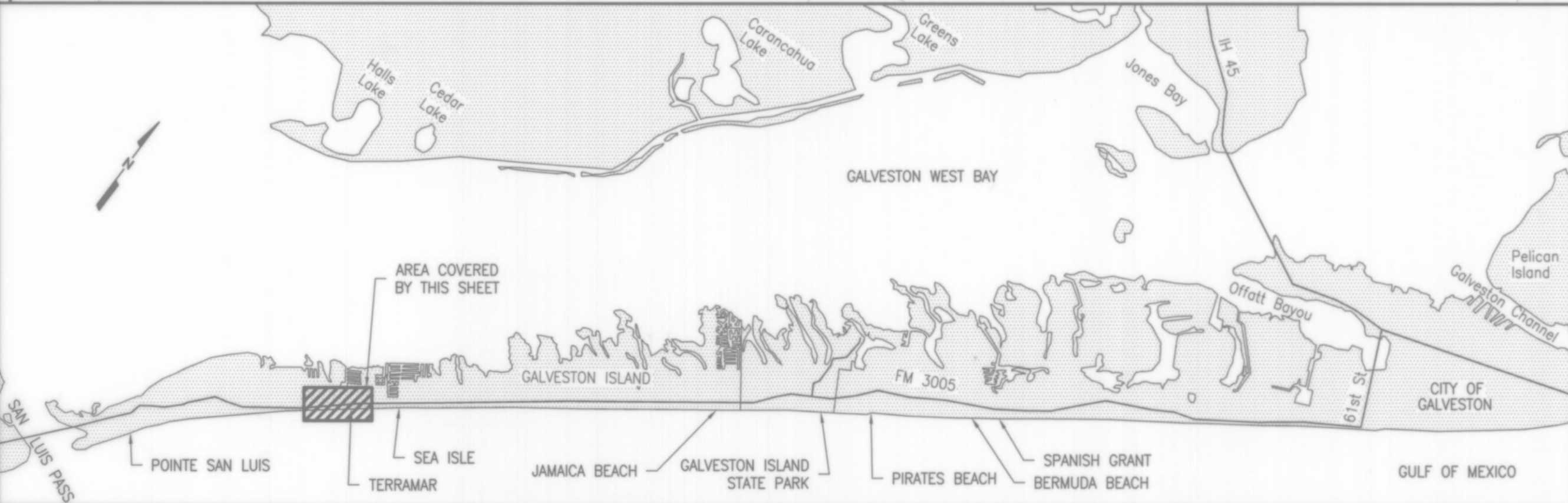
TIDAL DATUM ELEVATIONS REFERENCED TO NAVD '88  
(BASED ON DATA PROVIDED BY NOAA  
FOR GALVESTON PLEASURE PIER)

- MEAN HIGHER HIGH WATER (MHHW) = +1.40 FEET
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- MEAN TIDE LEVEL (MTL) = +0.48 FEET
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- MEAN LOW WATER (MLW) = -0.26 FEET
- MEAN LOWER LOW WATER (MLLW) = -0.69 FEET

**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
13-1	3,223,551.81	13,612,886.03
13-2	3,223,993.35	13,613,210.72
13-3	3,224,397.96	13,613,550.17
13-4	3,224,779.01	13,613,855.75
13-5	3,225,156.22	13,614,162.62
13-6	3,225,531.73	13,614,470.87
13-7	3,225,939.81	13,614,793.60
13-8	3,226,308.49	13,615,089.30
13-9	3,226,716.09	13,615,410.89
13-10	3,227,098.52	13,615,714.15
13-11	3,227,498.44	13,616,036.24
13-12	3,227,874.59	13,616,342.60



REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRJ	DJH	GJH	DATE
			03/01
			03/01
			04/01

1"=200'  
00196-C13  
200.00196

**SHINER MOSELEY AND ASSOCIATES, INC.**  
ENGINEERS & CONSULTANTS  
555 North Carancahua Street, Suite 1650  
Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
TEXAS  
SITE PLAN

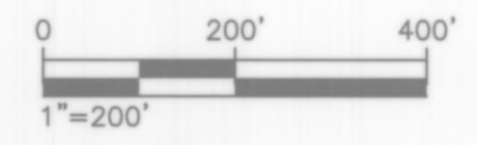
SHEET  
**C13**  
OF 19 REV 1

WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
MICHAEL HAAS, RPLS  
LICENSED STATE LAND SURVEYOR



TEXAS GENERAL LAND OFFICE  
Art. 33.136, Natural Resources Code  
County Galveston, Sk. No. 4  
File Date July 22, 2001 by D. J. H.  
Art. 15 of 19

J:\SMAcad\Projects\2000\00196\dwg\00196-C13.dwg 06/29/01 07:09:24 AM CDT

**NOTES:**

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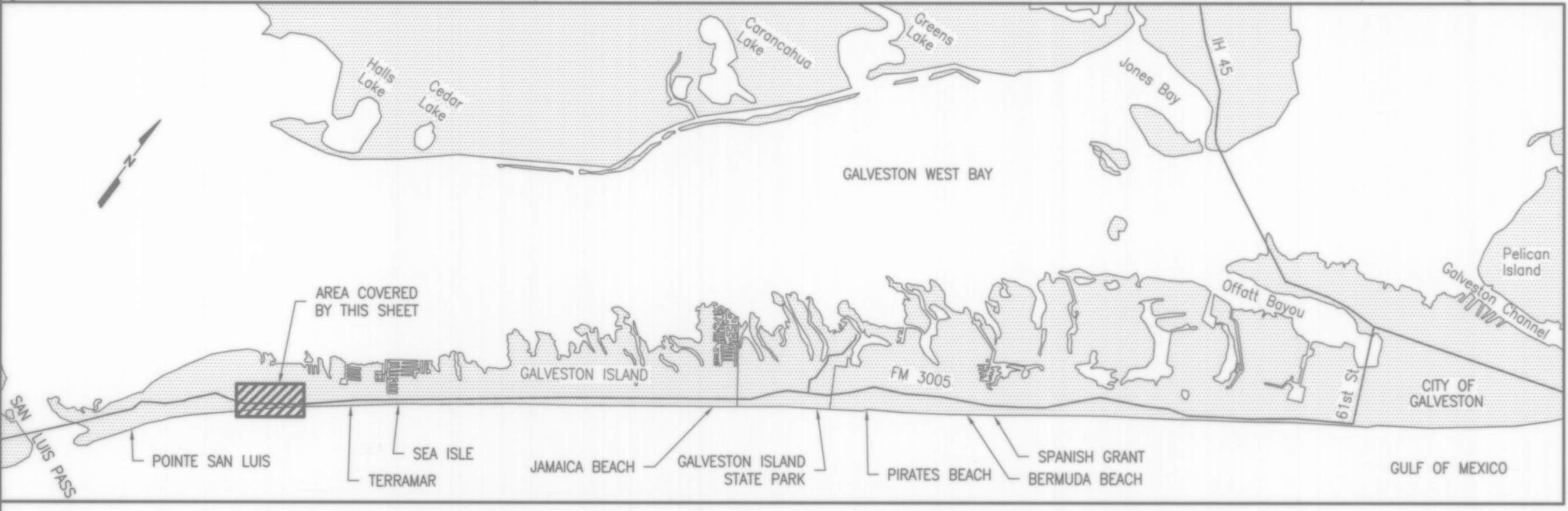
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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

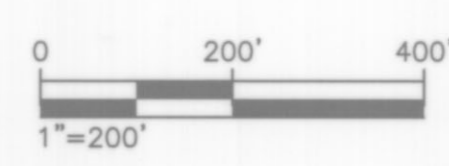
SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
14-1	3,218,956.95	13,609,030.68
14-2	3,219,343.71	13,609,361.49
14-3	3,219,712.56	13,609,679.87
14-4	3,220,109.45	13,610,020.77
14-5	3,220,477.41	13,610,322.24
14-6	3,220,855.44	13,610,639.42
14-7	3,221,237.40	13,610,958.22
14-8	3,221,635.99	13,611,303.53
14-9	3,222,015.66	13,611,608.47
14-10	3,222,389.30	13,611,927.16
14-11	3,222,773.90	13,612,244.03
14-12	3,223,154.60	13,612,550.68



KEY MAP

WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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 REGISTERED PROFESSIONAL LAND SURVEYOR



*Michael Haas*  
 MICHAEL HAAS, RPLS  
 LICENSED STATE LAND SURVEYOR  
 Licensed State Land Surveyor



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4

File Date July 2, 2001 by D.J.H.  
 sht. 16 of 19

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRJ	DATE	SCALE	NO.
DJH	03/01	1"=200'	00196-C14
GJH	03/01		200.00196
GJH	04/01		

SHINER MOSELEY AND ASSOCIATES, INC.  
 ENGINEERS & CONSULTANTS  
 555 North Carancahua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
 GALVESTON  
**SITE PLAN**

SHEET  
**C14**  
 OF 19 REV 1



**NOTES:**

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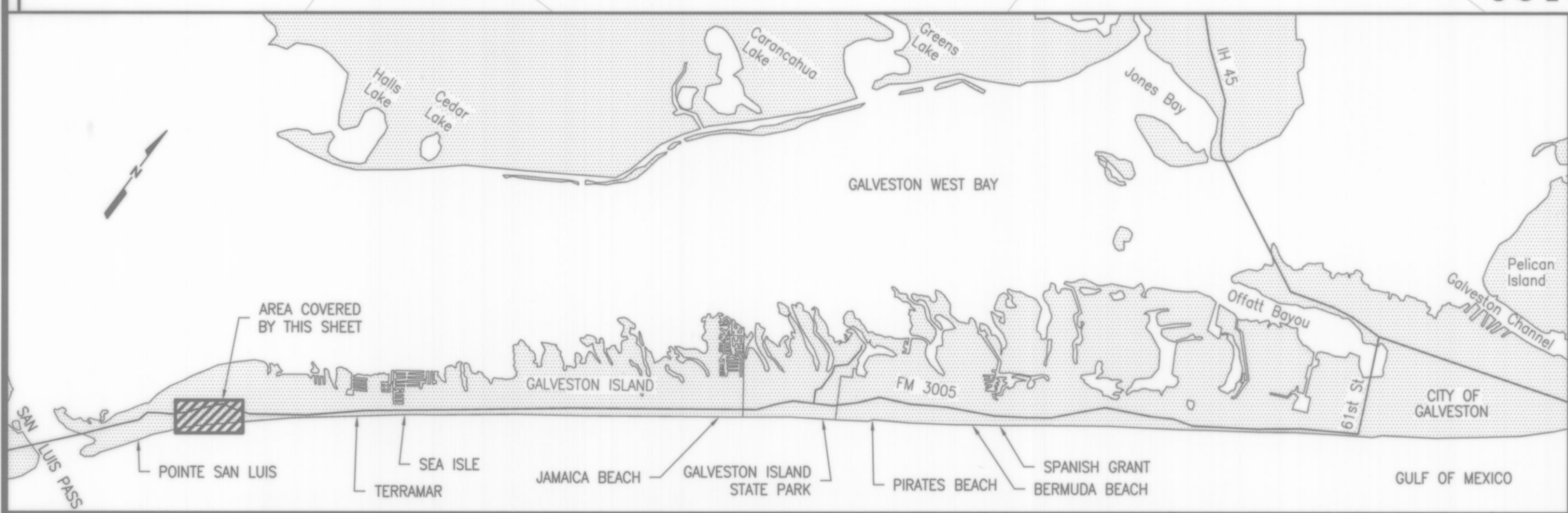
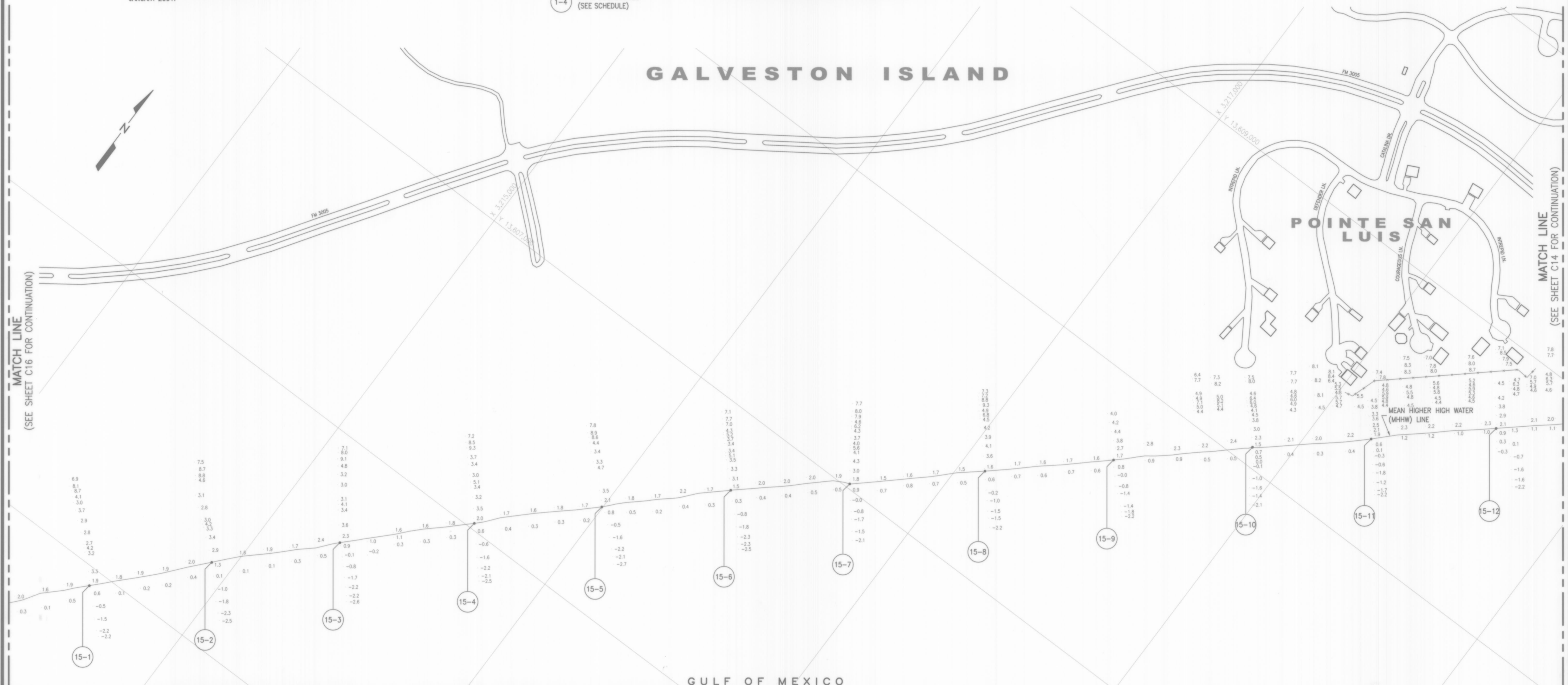
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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

MHHW POINT	X-COORDINATE	Y-COORDINATE
15-1	3,214,599.89	13,604,936.61
15-2	3,214,922.38	13,605,292.73
15-3	3,215,271.32	13,605,651.17
15-4	3,215,641.65	13,606,023.23
15-5	3,215,996.02	13,606,370.22
15-6	3,216,354.44	13,606,721.24
15-7	3,216,705.74	13,607,017.25
15-8	3,217,093.03	13,607,371.23
15-9	3,217,464.23	13,607,705.26
15-10	3,217,863.14	13,608,068.35
15-11	3,218,209.72	13,608,369.72
15-12	3,218,570.09	13,608,692.63



WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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 REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
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 LICENSED STATE LAND SURVEYOR  
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REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

DRJ	DJH	GJH	DATE	SCALE	PROJECT
			03/01	1"=200'	00196-C15
			03/01		200.00196
			04/01		

**SHINER MOSELEY AND ASSOCIATES, INC.**  
 ENGINEERS & CONSULTANTS  
 555 North Carancahua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
**SITE PLAN**

SHEET  
**C15**  
 OF 19 REV 1

TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 srt. 17 of 19

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**NOTES:**

1. MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL ARE SHOWN ON SHEET G2.
2. COORDINATES SHOWN ARE IN FEET BASED ON LAMBERT GRID, TEXAS SOUTH CENTRAL ZONE, NAD '83 (1993).
3. ELEVATIONS AND CONTOURS SHOWN ARE IN FEET BASED ON NAVD '88.
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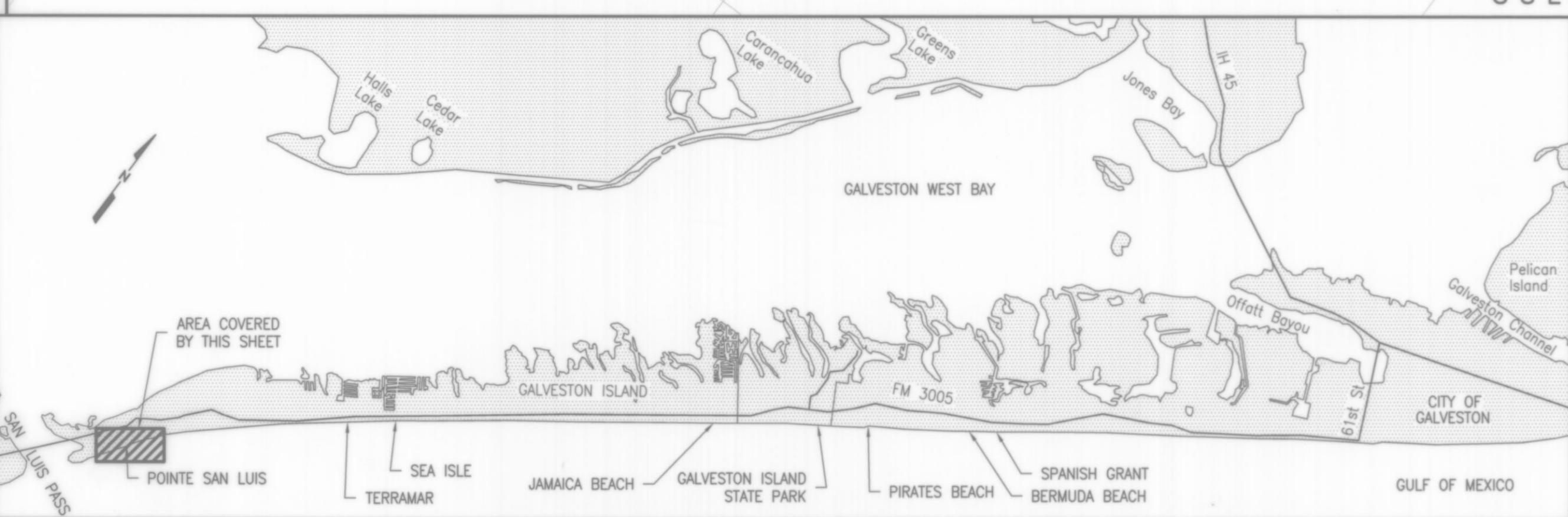
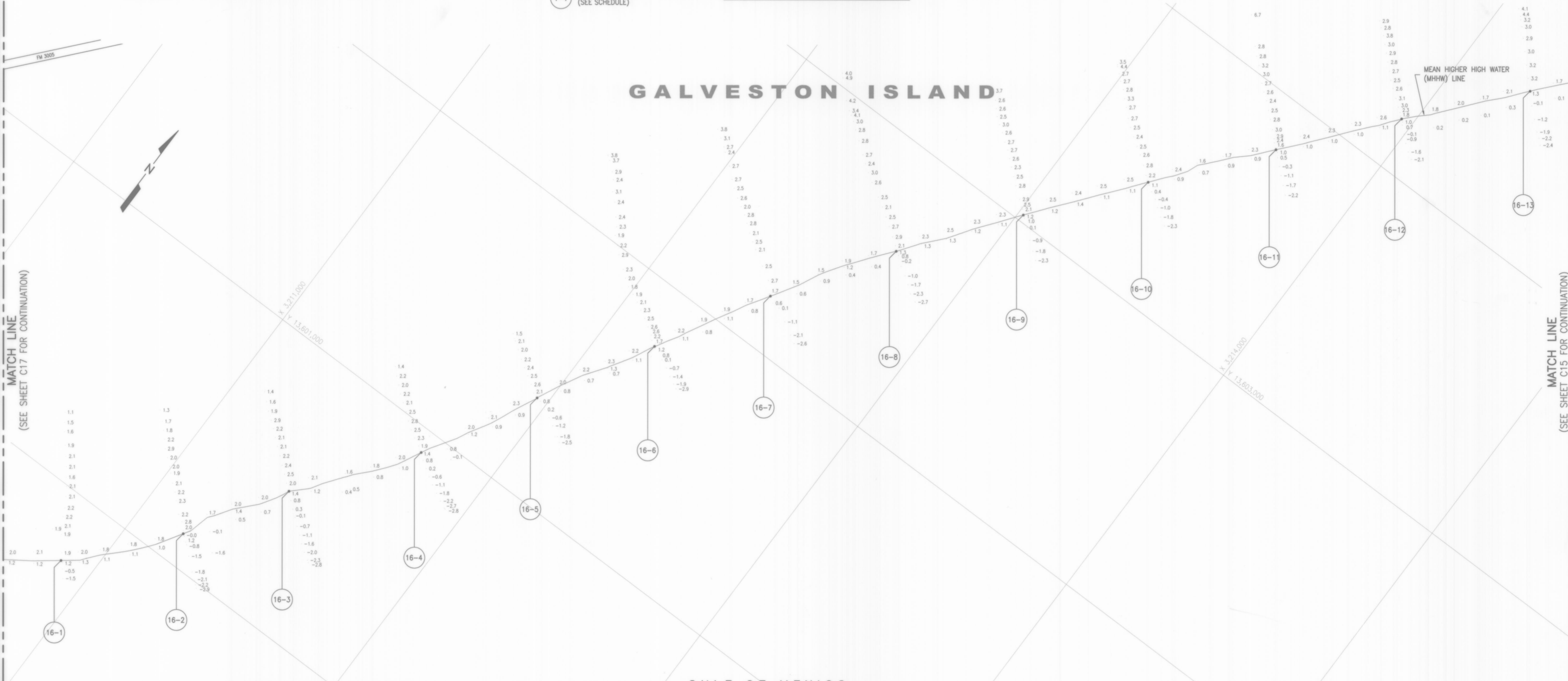
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**LEGEND:**

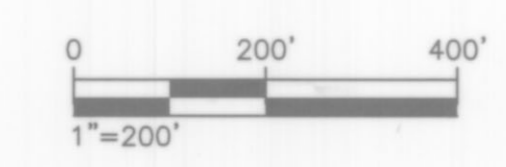
- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- 2.5 NATURAL GROUND ELEVATIONS
- 1-4 MHHW COORDINATES (SEE SCHEDULE)

SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
16-1	3,210,878.51	13,599,756.64
16-2	3,211,189.19	13,600,119.60
16-3	3,211,413.71	13,600,492.51
16-4	3,211,728.16	13,600,915.03
16-5	3,211,957.01	13,601,348.62
16-6	3,212,196.98	13,601,775.75
16-7	3,212,434.75	13,602,196.17
16-8	3,212,715.15	13,602,622.53
16-9	3,213,019.98	13,603,025.85
16-10	3,213,326.30	13,603,413.89
16-11	3,213,642.23	13,603,808.15
16-12	3,213,955.40	13,604,191.63
16-13	3,214,283.73	13,604,571.89



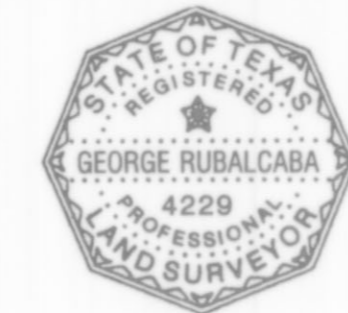
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 Licensed State Land Surveyor



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 Sht. 18 of 19

APP	DESCRIPTION	DATE	REV	DATE	FOR CITY/GLO REVIEW	ORIGINAL ISSUE
		4/12/01	0			
		6/29/01	1			
DRJ	DJH	03/01				
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		1"=200'				
		00196-C16				
		200.00196				

SHINER MOSELEY AND ASSOCIATES, INC.  
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 555 North Carancahua Street, Suite 1650  
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CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 TEXAS  
 GALVESTON  
**SITE PLAN**

SHEET  
**C16**  
 OF 19 REV 1

**NOTES:**

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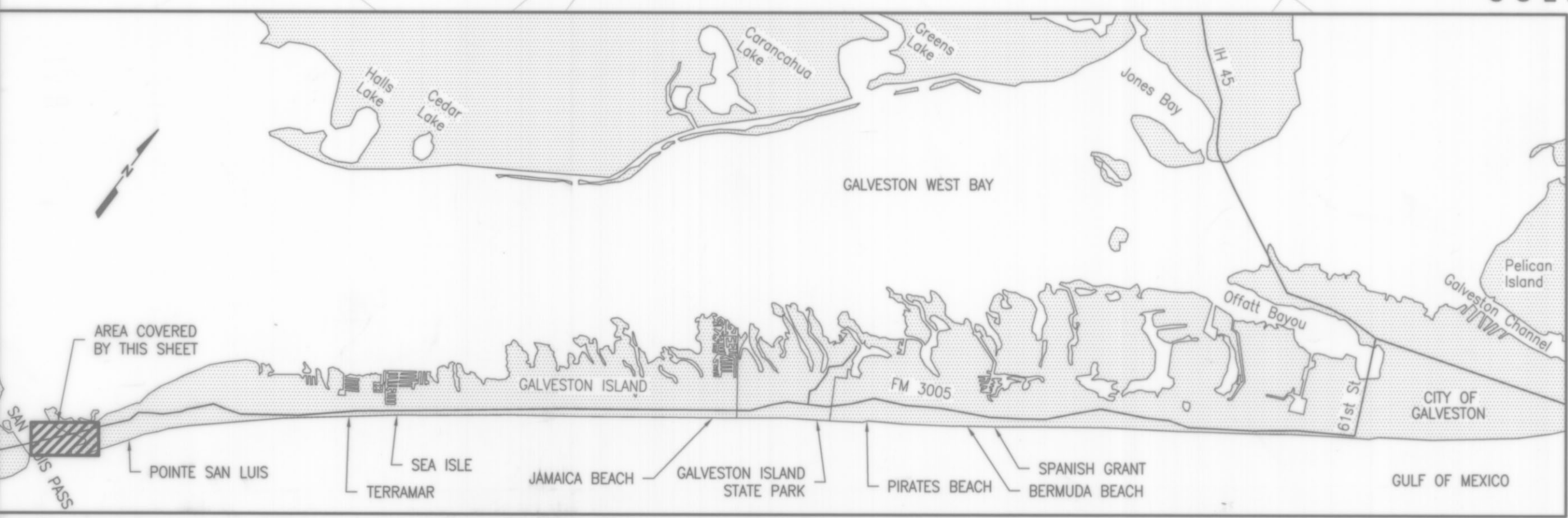
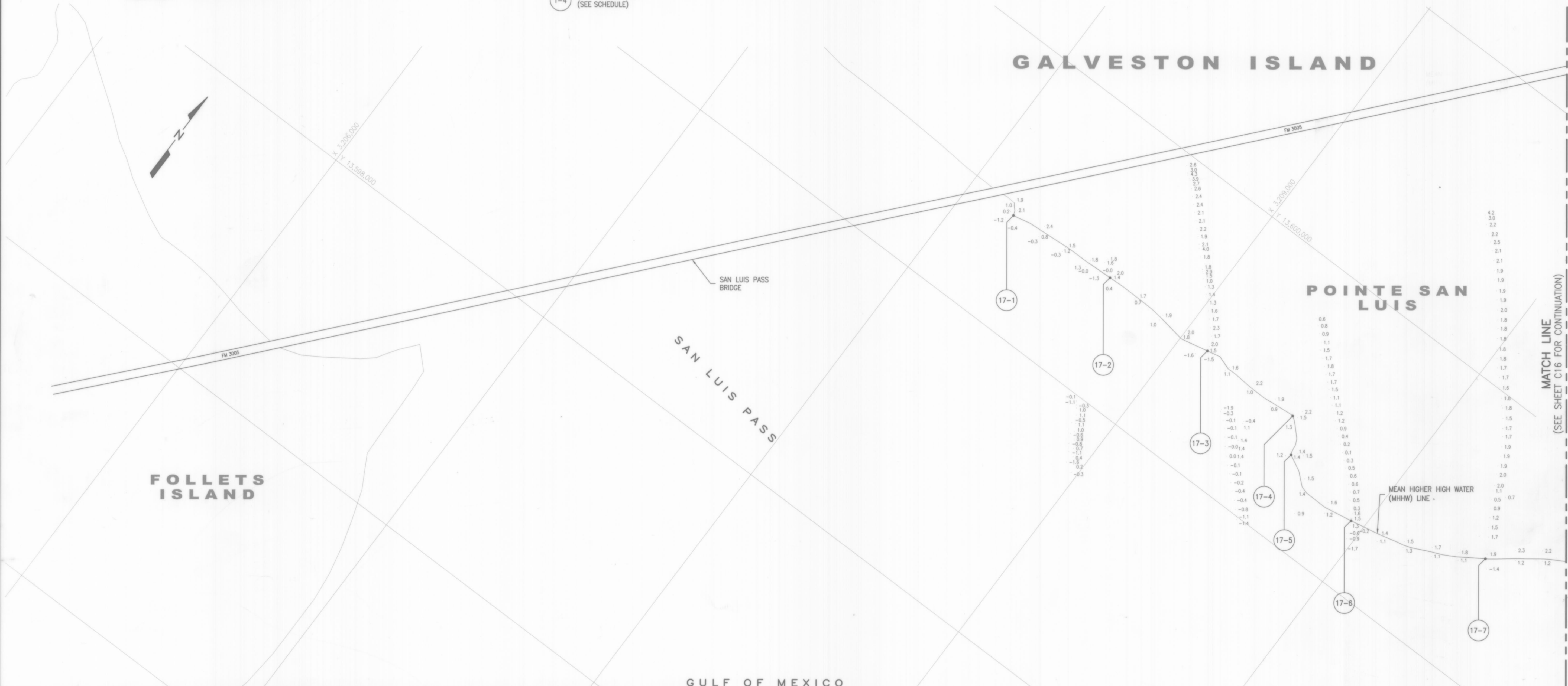
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MEAN HIGHER HIGH WATER (MHHW) = +1.40 FEET  
 MEAN HIGH WATER (MHW) = +1.23 FEET  
 MEAN TIDE LEVEL (MTL) = +0.48 FEET  
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**LEGEND:**

- FOOTPRINT OF HOUSE/STRUCTURE NEAREST TO BEACH
- POND
- DUNE WALKOVERS/STAIRS
- FENCE
- NATURAL GROUND ELEVATIONS
- MHHW COORDINATES (SEE SCHEDULE)

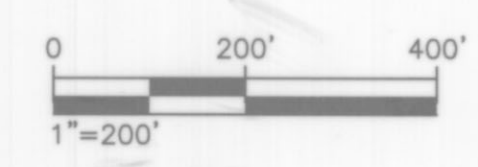
SCHEDULE: MHHW COORDINATES		
MHHW POINT	X-COORDINATE	Y-COORDINATE
17-1	3,208,203.90	13,599,402.57
17-2	3,208,644.39	13,599,436.19
17-3	3,209,112.43	13,599,439.05
17-4	3,209,524.69	13,599,438.29
17-5	3,209,609.74	13,599,315.36
17-6	3,209,946.54	13,599,252.74
17-7	3,210,445.84	13,599,447.92



KEY MAP

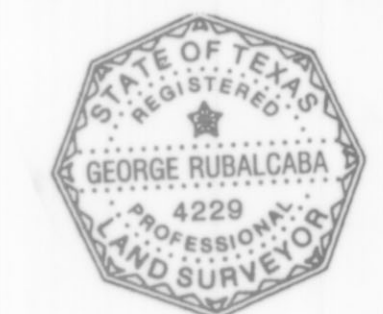
WE, SHINER, MOSELEY AND ASSOCIATES, INC., WITH THE ASSISTANCE OF WM. W. GREEN AND MICHAEL HAAS, LICENSED STATE LAND SURVEYORS IN THE STATE OF TEXAS, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE BEACH SURVEY CONDUCTED ON DEC 7, 2000 THROUGH JAN 17, 2001.

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 ON THE PUBLIC BEACH, 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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.



*George Rubalcaba*  
 GEORGE RUBALCABA  
 REGISTERED PROFESSIONAL LAND SURVEYOR

*Michael Haas*  
 MICHAEL HAAS, RPLS  
 LICENSED STATE LAND SURVEYOR  
*Licensed State Land Surveyor*



TEXAS GENERAL LAND OFFICE  
 Art. 33.136, Natural Resources Code  
 County Galveston, Sk. No. 4  
 File Date July 2, 2001 by D.J.H.  
 Sht. 19 of 19

MATCH LINE  
 (SEE SHEET C16 FOR CONTINUATION)

REV	DATE	DESCRIPTION	APP
0	4/12/01	FOR CITY/GLO REVIEW	
1	6/29/01	ORIGINAL ISSUE	

NO.	DRJ	DATE	DESCRIPTION
01	DJH	03/01	
02	GJH	04/01	

SCALE	1"=200'
PROJECT NO.	00196-C17
DATE	2000.00196

SHINER MOSELEY AND ASSOCIATES, INC.  
 ENGINEERS & CONSULTANTS  
 555 North Caranacua Street, Suite 1650  
 Corpus Christi, Texas 78478

CITY OF GALVESTON  
**BEACH SURVEY OF WEST GALVESTON ISLAND**  
 GALVESTON, TEXAS

**SITE PLAN**

SHEET  
**C17**  
 OF 19 REV 1



June 29, 2001

J200.00196  
VIA FEDEX

Mr. Ben Thomson, RPLS, LSLS  
Texas General Land Office  
1700 N. Congress Avenue  
Austin, TX 78701-1495

**RE: BEACH SURVEY OF WEST GALVESTON ISLAND  
(STATE COASTAL BOUNDARY SURVEY)**

Dear Mr. Thomson:

Enclosed is final drawing package for the referenced survey sealed by Michael Haas, LSLS and George Rubalcaba, RPLS. This survey has been performed in accordance with Section 33.136 of the Natural Resources Code.

Please do not hesitate to call should there be any questions.

Sincerely,

SHINER MOSELEY AND ASSOCIATES, INC.

Gerald J. Hauske, P.E.  
Project Manager

Enclosure: Final Sealed Drawing Package (Sheets G1, G2, C1 through C17) *Sketch 4*

Cc: Jimmy Tyree, Project Manager  
Texas General Land Office  
1700 N. Congress Avenue  
Austin, TX 78701-1495

Larry Wise, P.E.  
Shiner Moseley and Associates  
3300 South Gessner, Suite 111  
Houston, Texas 77063

Monica Franke, Director  
Department of Planning and Community Development  
City of Galveston  
823 Rosenberg, Room 401  
Post Office Box 779  
Galveston, Texas 77553-0779

File No. Art. 33.136 Report 2

Galveston County

Tidal Information from Pleasure Pier Gauge

Date Filed: July 2, 2001

By David Dewhurst, Commissioner  
Douglas Howard

*See Galveston Co.  
Art. 33.136 Sketch No. 4,  
flattened*

H1

counter 61519



June 29, 2001

J200.00196

Mr. Ben Thomson  
Texas General Land Office  
1700 N. Congress Avenue  
Austin, TX 78701-1495

**RE: BEACH SURVEY OF WEST GALVESTON ISLAND  
(STATE COASTAL BOUNDARY SURVEY)**

Dear Mr. Thomson:

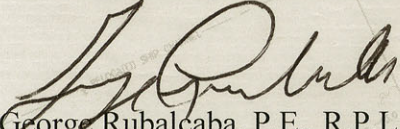
Enclosed is the tidal information from the Pleasure Pier Gauge which was the basis for our surveys. If you recall, I consulted with you via a phone conversation prior to our commencement of beach surveys to determine what would be the acceptable method for determining the Mean Higher High Water Line. You indicated that the Pleasure Pier data would be acceptable for our surveys.

I consulted NOAA on April 15, 1999, and was given the correlation as shown on sheet 6 of 9 attached which showed 0.00' MHHW = 1.39' NAVD '88. Leveling from the benchmarks at Pleasure Pier to the various benchmarks along the scope of our project, we averaged out to 0.00' MHHW = 1.40' NAVD '88, which is what we indicate on our drawings. The latest NOAA publication shows 0.00' MHHW = 1.44' NAVD '88. I have shown all these correlations on the attached sheet 6 of 9.

Thank you for your time and assistance on this and previous projects. Should you have any questions, just call.

Sincerely,

SHINER MOSELEY AND ASSOCIATES, INC.

  
George Rubalcaba, P.E., R.P.L.S.  
Project Manager

GR/lfb

Enclosures

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

Page 1 of 8

Station ID: 8771510	PUBLICATION DATE: 01/14/2000
Name: GALVESTON PLEASURE PIER TEXAS	
NOAA Chart: 11324	Latitude: 29° 17.1' N
USGS Quad: GALVESTON	Longitude: 94° 47.3' W

To reach the tidal bench marks from the Post Office on the west side of Rosenberg Avenue (25th Street) and Winnie Street (Avenue G), proceed SE on Rosenberg Avenue for 1.6 km (1.0 mi) to Seawall Boulevard and the entrance to Flagship Pier (formerly known as Pleasure Pier). The bench marks are primarily east of the pier on the seawall along Seawall Boulevard. The tide gage and staff are approximately 0.3 km (0.2 mi) SE of Seawall Boulevard on the SE corner of the pier.

T I D A L   B E N C H   M A R K S

PRIMARY BENCH MARK STAMPING: NO 43 1957  
DESIGNATION: 877 1510 TIDAL 43

MONUMENTATION:	Tidal Station disk	VM#: 854
AGENCY:	Coast and Geodetic Survey (CGS)	PID#: AW0592
SETTING CLASSIFICATION:	Concrete pier deck	

The primary bench mark is a disk set in the top of the concrete floor of the Flagship Motor Hotel Fishing Pier, 0.3 km (0.2 mi) SE of the center line of Seawall Boulevard, at a narrow drive between the Hotel and Fishing Pier parking lots, 18.84 m (61.8 ft) NW of the NW edge of the Fishing Pier parking lot, 10.73 m (35.2 ft) SE of the SE edge of the hotel parking lot, 1.2 m (3.9 ft) east of a wire gate, and 0.37 m (1.2 ft) SW of the NE edge of the drive.

BENCH MARK STAMPING: WALL 1933 ELEV 15.279 FT  
DESIGNATION: WALL

MONUMENTATION:	Triangulation Station disk	VM#: 855
AGENCY:	Coast and Geodetic Survey (CGS)	PID#: AW0588
SETTING CLASSIFICATION:	Concrete sea wall	

The bench mark is a disk set in the top of the sea wall, along Seawall Boulevard about midway between 12th and 13th Streets, 10.91 m (35.8 ft) SW of the west corner of a concrete bench, 0.79 m (2.6 ft) south of a small angle in the sidewalk, 0.52 m (1.7 ft) SE of the SE edge of the sidewalk, and about level with the boulevard.

H<sub>3</sub>

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

Page 2 of 8

Station ID: 8771510 PUBLICATION DATE: 01/14/2000  
Name: GALVESTON PLEASURE PIER  
TEXAS  
NOAA Chart: 11324 Latitude: 29° 17.1' N  
USGS Quad: GALVESTON Longitude: 94° 47.3' W

## T I D A L B E N C H M A R K S

BENCH MARK STAMPING: E 168 1936 ELEV 15.502 FT  
DESIGNATION: E 168

MONUMENTATION: Bench Mark disk VM#: 856  
AGENCY: Coast and Geodetic Survey (CGS) PID#: AW0590  
SETTING CLASSIFICATION: Concrete sea wall

The bench mark is a disk set in the top center of the concrete sea wall in line with the center of a rock bracker, about 104 m (342 ft) SW of the junction of Seawall Boulevard and 23rd Street North across the boulevard from Playland Park, 21.18 m (69.5 ft) NE of the NE end of a concrete bench, 8.47 m (27.8 ft) SW of the south corner of a concrete block planter with two palm trees, 5.43 m (17.8 ft) SE of the SE curb of the boulevard, 0.94 m (3.1 ft) north of the NW end of a pipe handrail along steps leading to the beach, and about 0.3 m (1 ft) higher than the boulevard.

BENCH MARK STAMPING: WALL NO 1 1942  
DESIGNATION: WALL RM 1

MONUMENTATION: Reference Mark disk VM#: 857  
AGENCY: Coast and Geodetic Survey (CGS) PID#: AW0589  
SETTING CLASSIFICATION: Concrete sea wall

The bench mark is a disk set in the top of the concrete sea wall, along Seawall Boulevard about midway between 12th and 13th Streets, 14.23 m (46.7 ft) NE of the station, 1.71 m (5.6 ft) NE of the east corner of a concrete bench, 1.19 m (3.9 ft) SE of the SE edge of the sidewalk, and about level with the boulevard.

H4

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

Station ID: 8771510	PUBLICATION DATE: 01/14/2000
Name: GALVESTON PLEASURE PIER	
TEXAS	
NOAA Chart: 11324	Latitude: 29° 17.1' N
USGS Quad: GALVESTON	Longitude: 94° 47.3' W

T I D A L B E N C H M A R K S

BENCH MARK STAMPING: NO 44 1957  
DESIGNATION: 877 1510 TIDAL 44

MONUMENTATION:	Tidal Station disk	VM#: 858
AGENCY:	Coast and Geodetic Survey (CGS)	PID#: AW0591
SETTING CLASSIFICATION:	Concrete sea wall	

The bench mark is a disk set in the top center of the concrete sea wall, at the junction of Seawall Boulevard and Rosenberg Avenue North (25th Street), 3 m (10 ft) SW of the centerline of a concrete ramp leading down to the beach, 0.88 m (2.9 ft) NW of the extended concrete curb of the ramp leading up along the NE side of the Flagship Motor Hotel Pier, 0.70 m (2.3 ft) north of the NE corner of a chain link fence around the Flagship Motor Hotel, and about 0.61 m (2.0 ft) higher than the boulevard.

BENCH MARK STAMPING: NO 10 1973  
DESIGNATION: 877 1510 TIDAL 10

MONUMENTATION:	Tidal Station disk	VM#: 859
AGENCY:	National Ocean Survey (NOS)	PID#: AW1221
SETTING CLASSIFICATION:	Concrete sea wall	

The bench mark is a disk set flush in the top of the sea wall at the junction of Seawall Boulevard and Tremont Street (22nd Street), 17.28 m (56.7 ft) ESE of the centerline of Seawall Boulevard, 7.50 m (24.6 ft) SW of steps leading to the beach at the foot of Tremont Street, and 0.79 m (2.6 ft) NW of the edge of the sea wall.

H5  
6/29/01



U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

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Station ID: 8771510 PUBLICATION DATE: 01/14/2000  
Name: GALVESTON PLEASURE PIER  
TEXAS  
NOAA Chart: 11324 Latitude: 29° 17.1' N  
USGS Quad: GALVESTON Longitude: 94° 47.3' W

## T I D A L B E N C H M A R K S

BENCH MARK STAMPING: NO 45 1975  
DESIGNATION: 877 1510 TIDAL 45

MONUMENTATION: Tidal Station disk VM#: 860  
AGENCY: National Ocean Survey (NOS) PID#: AW1247  
SETTING CLASSIFICATION: Concrete sea wall

The bench mark is a disk set in the top center of the concrete sea wall, at the junction of Seawall Boulevard and Moody Avenue (21st Street), across the boulevard from the SE corner of Moody Center, 22.01 m (72.2 ft) east of a red and yellow fire hydrant, 15.48 m (50.8 ft) SE of the center line of Seawall Boulevard, 9.54 m (31.3 ft) SW of the SW corner of a planter with one palm tree, and 0.79 m (2.6 ft) NW of the seaward side of the sea wall.

BENCH MARK STAMPING: NO 46 1975  
DESIGNATION: 877 1510 TIDAL 46

MONUMENTATION: Tidal Station disk VM#: 861  
AGENCY: National Ocean Survey (NOS) PID#: AW1703  
SETTING CLASSIFICATION: Concrete sea wall

The bench mark is a disk set in the top of the sea wall, near the junction of Seawall Boulevard and 18th Street, 15.03 m (49.3 ft) SE of the center line of Seawall Boulevard, 3.17 m (10.4 ft) SW of the SW edge of a concrete bench along the sea wall, and 0.79 m (2.6 ft) NW of the seaward side of the sea wall.

H6

**BENCH MARK STAMPING:** NO 47 1975  
**DESIGNATION:** 877 1510 TIDAL 47

**MONUMENTATION:** Tidal Station disk **VM#:** 862  
**AGENCY:** National Ocean Survey (NOS) **PID#:** AW1887  
**SETTING CLASSIFICATION:** Concrete sea wall

The bench mark is a disk set in the top of the sea wall, at the junction of Seawall Boulevard and 14th Street, 14.57 m (47.8 ft) SE of the centerline of Seawall Boulevard, 2.10 m (6.9 ft) north of the NE side of steps leading to the beach, and 0.85 m (2.8 ft) NW of the seaward side of the sea wall.

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

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**Station ID:** 8771510 **PUBLICATION DATE:** 01/14/2000  
**Name:** GALVESTON PLEASURE PIER  
**TEXAS**  
**NOAA Chart:** 11324 **Latitude:** 29° 17.1' N  
**USGS Quad:** GALVESTON **Longitude:** 94° 47.3' W

## T I D A L B E N C H M A R K S

**BENCH MARK STAMPING:** S 449 5  
**DESIGNATION:** S 449 5

**MONUMENTATION:** Survey disk **VM#:** 863  
**AGENCY:** US Army Corps of Engineers **PID#:** AW4850  
**SETTING CLASSIFICATION:** Concrete sea wall

The bench mark is a disk set in the top center of the concrete sea wall, at the junction of Seawall Boulevard and 24th Street, 23.04 m (75.6 ft) NE of bench mark NO 44 1957, 19.99 m (65.6 ft) NE of the NE ramp leading to the Flagship Motor Hotel, 15.18 m (49.8 ft) SE of the centerline of Seawall Boulevard, and 3.23 m (10.6 ft) west of the west side of steps leading to the beach.

H7

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

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Station ID: 8771510 PUBLICATION DATE: 01/14/2000  
Name: GALVESTON PLEASURE PIER  
TEXAS  
NOAA Chart: 11324 Latitude: 29° 17.1' N  
USGS Quad: GALVESTON Longitude: 94° 47.3' W

T I D A L D A T U M S

Tidal datums at GALVESTON PLEASURE PIER based on:

LENGTH OF SERIES: 5 Years  
TIME PERIOD: January 1990 - December 1994  
TIDAL EPOCH: 1960-1978  
CONTROL TIDE STATION: 8771450 GALVESTON PIER 21, GALVESTON CHANNEL

Elevations of tidal datums referred to Mean Lower Low Water (MLLW), in METERS:

	MTRS.	FT.	DATA IN APRIL 1999
HIGHEST OBSERVED WATER LEVEL (09/11/1961)	= 2.829	9.28	—
MEAN HIGHER HIGH WATER (MHHW)	= 0.649	2.13	2.08
MEAN HIGH WATER (MHW)	= 0.578	1.90	1.91
MEAN TIDE LEVEL (MTL)	= 0.364	1.19	1.17
MEAN SEA LEVEL (MSL)	= 0.359	1.18	1.16
NORTH AMERICAN VERTICAL DATUM-1988 (NAVD)	= 0.209	0.69	0.69
MEAN LOW WATER (MLW)	= 0.151	0.50	0.43
MEAN LOWER LOW WATER (MLLW)	= 0.000	0.00	0.00
LOWEST OBSERVED WATER LEVEL (02/12/1985)	= -1.463	-4.80'	—

From Published Data of 1/14/2000 0.00 MHHW = 1.44' MHHW  
" Data Retrieved 4/15/1999 0.00 MHHW = 1.39' MHHW  
From Field Logs 0.00 MHHW = 1.40' MHHW

H<sub>8</sub>

Bench Mark Elevation Information	In METERS above:	
	MLLW	MHW
Stamping or Designation		
NO 43 1957	7.563	6.985
WALL 1933 ELEV 15.279 FT	4.557	3.979
E 168 1936 ELEV 15.502 FT	4.611	4.033
WALL NO 1 1942	4.530	3.952
NO 44 1957	4.590	4.012
NO 10 1973	4.579	4.001
NO 45 1975	4.597	4.019
NO 46 1975	4.585	4.007
NO 47 1975	4.549	3.971
S 449 5	4.599	4.021

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

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Station ID: 8771510	PUBLICATION DATE: 01/14/2000
Name: GALVESTON PLEASURE PIER TEXAS	
NOAA Chart: 11324	Latitude: 29° 17.1' N
USGS Quad: GALVESTON	Longitude: 94° 47.3' W

Foot Notes:

Galveston Bay, Texas has anomalous relative sea level trends compared to most other geographic regions in the United States. This is due to a general subsidence of land in this area, which is occurring at a rapid rate. Because of the magnitude of the sea level trends in these areas, NOAA has adopted a procedure for computing accepted tidal datums for the National Water Level Observation Network (NWLON) using the last several years of sea level data rather than the 19 - year tidal epoch. The tide ranges are still based on the 1960 - 1978 National Tidal Datum Epoch (NTDE) and are applied to the five year (1990 - 1994) mean tide level (MTL) to compute other tidal datums. The adoption of this procedure was necessary to ensure that these tidal datums accurately represent the existing stand of sea level.

Hg

U.S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
National Ocean Service

Page 8 of 8

Station ID: 8771510	PUBLICATION DATE: 01/14/2000
Name: GALVESTON PLEASURE PIER TEXAS	
NOAA Chart: 11324	Latitude: 29° 17.1' N
USGS Quad: GALVESTON	Longitude: 94° 47.3' W

## D E F I N I T I O N S

Mean Sea Level (MSL) is a tidal datum determined over a 19-year National Tidal Datum Epoch. It pertains to local mean sea level and should not be confused with the fixed datums of North American Vertical Datum of 1988 (NAVD 88).

NGVD 29 is a fixed datum adopted as a national standard geodetic reference for heights but is now considered superseded. NGVD 29 is sometimes referred to as Sea Level Datum of 1929 or as Mean Sea Level on some early issues of Geological Survey Topographic Quads. NGVD 29 was originally derived from a general adjustment of the first-order leveling networks of the U.S. and Canada after holding mean sea level observed at 26 long term tide stations as fixed. Numerous local and wide-spread adjustments have been made since establishment in 1929. Bench mark elevations relative to NGVD 29 are available from the National Geodetic Survey (NGS) data base via the World Wide Web at National Geodetic Survey.

NAVD 88 is a fixed datum derived from a simultaneous, least squares, minimum constraint adjustment of Canadian/Mexican/United States leveling observations. Local mean sea level observed at Father Point/Rimouski, Canada was held fixed as the single initial constraint. NAVD 88 replaces NGVD 29 as the national standard geodetic reference for heights. Bench mark elevations relative to NAVD 88 are available from NGS through the World Wide Web at National Geodetic Survey.

NGVD 29 and NAVD 88 are fixed geodetic datums whose elevation relationships to local MSL and other tidal datums may not be consistent from one location to another.

The Vertical Mark Number (VM#) and PID# shown on the bench mark sheet are unique identifiers for bench marks in the tidal and geodetic databases, respectively. Each bench mark in either database has a single, unique VM# and/or PID# assigned. Where both VM# and PID# are indicated, both tidal and geodetic elevations are available for the bench mark listed.

The NAVD 88 elevation is shown on the Elevations of Tidal Datums Table Referred to MLLW only when two or more of the bench marks listed have NAVD 88 elevations. The NAVD 88 elevation relationship shown in the table is derived from an average of several bench mark elevations relative to tide station datum. As a result of this averaging, NAVD 88 bench mark elevations computed indirectly from the tidal datums elevation table may differ slightly from NAVD 88 elevations listed for each bench mark in the NGS database.

Texas General Land Office

7/2/2001

-----  
Input

Horizontal: Ethpgn, Texas South Central - 4204, U.S. Survey Feet

Output

Horizontal: NAD 27, Texas South Central - 4204, U.S. Survey Feet  
-----

Name	Input	Output
1-10	13658349.81000 N 3284623.18000 E	534914.33215 N 3316216.92549 E
Convergence	02 01 20.51279	02 01 20.87120
Scale Factor	0.999864581	0.999864596
Grid Shift (US ft)	Delta North = -13123435.478 Delta East = 31593.745	
Datum Shift (m)	Delta Lat. = 26.434 Delta Lon. = 19.218	
3-8	13650714.10000 N 3274292.29000 E	527278.68026 N 3305886.16333 E
Convergence	02 00 21.93309	02 00 22.29344
Scale Factor	0.999865210	0.999865227
Grid Shift (US ft)	Delta North = -13123435.420 Delta East = 31593.873	
Datum Shift (m)	Delta Lat. = 26.484 Delta Lon. = 19.327	
5-6	13643050.42000 N 3263800.48000 E	519615.05225 N 3295394.48790 E
Convergence	01 59 22.48174	01 59 22.84408
Scale Factor	0.999865963	0.999865981
Grid Shift (US ft)	Delta North = -13123435.368 Delta East = 31594.008	
Datum Shift (m)	Delta Lat. = 26.535 Delta Lon. = 19.439	
7-7	13636104.27000 N 3254225.20000 E	512668.94417 N 3285819.33500 E
Convergence	01 58 28.25330	01 58 28.61748
Scale Factor	0.999866751	0.999866770
Grid Shift (US ft)	Delta North = -13123435.326 Delta East = 31594.135	
Datum Shift (m)	Delta Lat. = 26.582 Delta Lon. = 19.543	
9-7	13629209.81000 N 3244879.12000 E	505774.52023 N 3276473.38389 E
Convergence	01 57 35.31979	01 57 35.68578
Scale Factor	0.999867633	0.999867654
Grid Shift (US ft)	Delta North = -13123435.290 Delta East = 31594.264	
Datum Shift (m)	Delta Lat. = 26.630 Delta Lon. = 19.646	

*Plotted & Checked O.K. J 7/02/01*

Texas General Land Office

7/2/2001

-----  
Input

Horizontal: Ethpgn, Texas South Central - 4204, U.S. Survey Feet

Output

Horizontal: NAD 27, Texas South Central - 4204, U.S. Survey Feet  
-----

Name	Input	Output
11-6	13621717.31000 N 3234826.05000 E	498281.98165 N 3266420.52220 E
Convergence	01 56 38.38854	01 56 38.75687
Scale Factor	0.999868705	0.999868727
Grid Shift(US ft)	Delta North = -13123435.328	Delta East = 31594.472
Datum Shift(m)	Delta Lat. = 26.707	Delta Lon. = 19.776
13-4	13613855.75000 N 3224779.01000 E	490420.39250 N 3256373.69770 E
Convergence	01 55 41.44379	01 55 41.81447
Scale Factor	0.999869958	0.999869981
Grid Shift(US ft)	Delta North = -13123435.358	Delta East = 31594.688
Datum Shift(m)	Delta Lat. = 26.785	Delta Lon. = 19.909
15-5	13606370.22000 N 3215996.02000 E	482934.84823 N 3247590.90347 E
Convergence	01 54 51.56911	01 54 51.94189
Scale Factor	0.999871277	0.999871302
Grid Shift(US ft)	Delta North = -13123435.372	Delta East = 31594.883
Datum Shift(m)	Delta Lat. = 26.855	Delta Lon. = 20.028
17-1	13599402.57000 N 3208203.90000 E	475967.19394 N 3239798.96223 E
Convergence	01 54 07.27734	01 54 07.65202
Scale Factor	0.999872614	0.999872640
Grid Shift(US ft)	Delta North = -13123435.376	Delta East = 31595.062
Datum Shift(m)	Delta Lat. = 26.918	Delta Lon. = 20.135
17-1	13599402.57000 N 3208203.90000 E	475967.19394 N 3239798.96223 E
Convergence	01 54 07.27734	01 54 07.65202
Scale Factor	0.999872614	0.999872640
Grid Shift(US ft)	Delta North = -13123435.376	Delta East = 31595.062
Datum Shift(m)	Delta Lat. = 26.918	Delta Lon. = 20.135

SAME