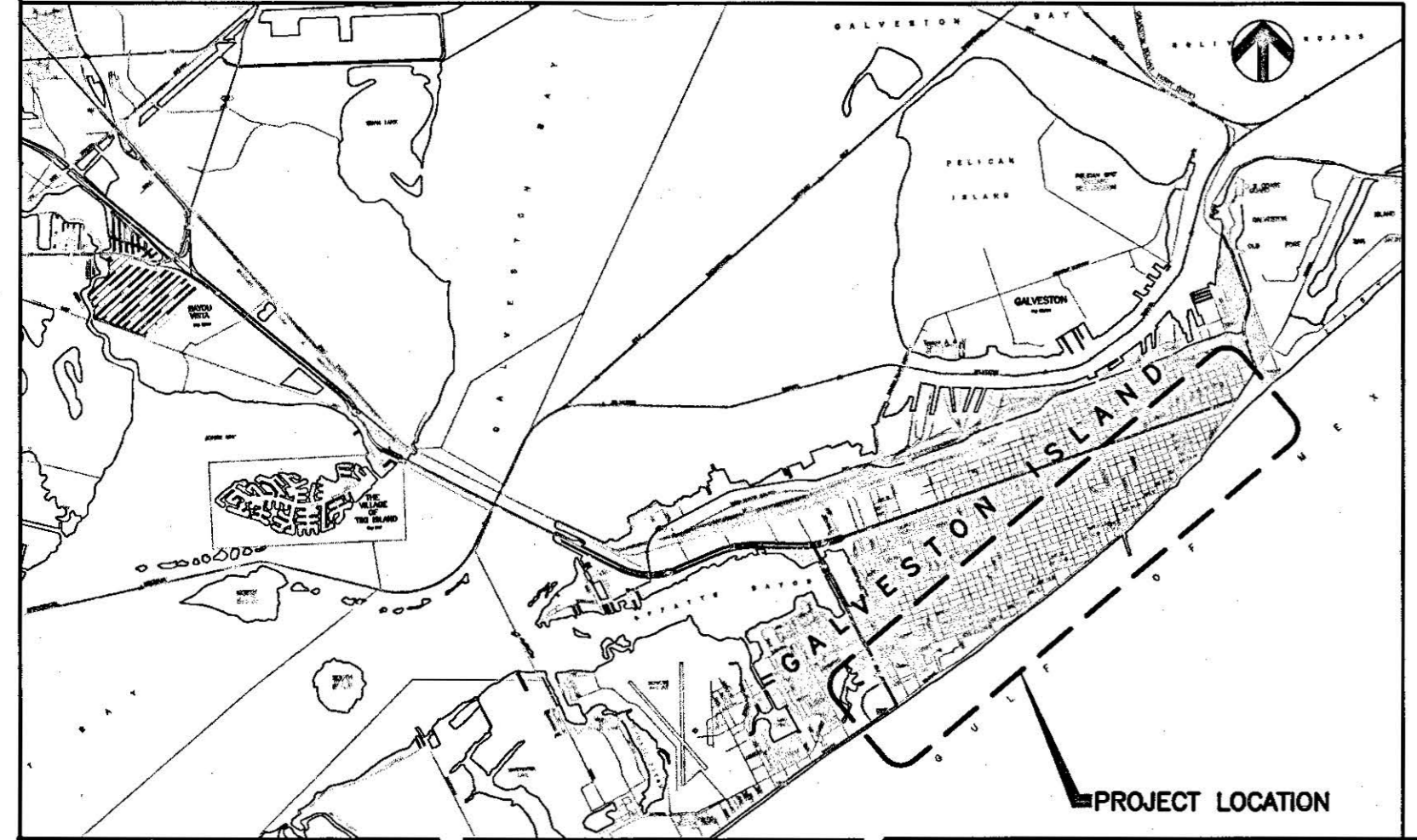


- NOTES:**
- ALL SURVEYING WAS PERFORMED BY HDR ENGINEERING, INC. FROM GPS OBSERVATIONS. THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE SURVEY CONDUCTED OCTOBER 10, 2008.
FIELD PERSONNEL: GEORGE RUBALCABA, R.P.L.S., L.S.L.S.
JOE R. ROSENBAUM
ERIC OLIVEIRA
HOMER MARTINEZ
 - ALL ELEVATIONS SHOWN ARE IN FEET AND REFERENCED TO NAVD '88.
 - COORDINATES SHOWN ARE GRID IN U.S. FEET AND REFERENCED TO TEXAS COORDINATE SYSTEM, TEXAS SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, 1983 DATUM.
 - MONUMENTS USED FOR HORIZONTAL AND VERTICAL CONTROL WERE:
"CROCKETT 2" N. 13,670,547.58
E. 3,302,290.59
ELEV. 14.55'
"CROCKETT RM 1" N. 13,670,559.13
E. 3,302,404.70
ELEV. 13.99'
"877-1510 TIDAL 44" N. 13,676,511.27
E. 3,310,080.39
ELEV. 14.37'
 - MEAN HIGHER HIGH WATER DETERMINED TO BE 1.44' NAVD '88 FROM TCOON TIDAL INFORMATION AT GALVESTON PLEASURE PIER TIDE GAUGE NO. 021.
 - BASIS OF BEARINGS IS "TEXAS COORDINATE SYSTEM" PER SECTION 21.071 OF THE NATURAL RESOURCES CODE.
 - DISTANCES AND BEARINGS ARE GRID. SCALE FACTOR FOR "CROCKETT 2" IS 0.99986383, CONVERGENCE IS +2'-03"-00.6"; SCALE FACTOR FOR "CROCKETT RM 1" IS 0.99986383, CONVERGENCE IS +2'-03"-01.9"; SCALE FACTOR FOR 877-1510 TIDAL 44" IS 0.99986357, CONVERGENCE IS +2'-03"-44.8".
 - THE LIMITS OF THESE LITTORAL BOUNDARIES WERE DETERMINED BY METHODOLOGY APPROVED BY THE TEXAS GENERAL LAND OFFICE AS PER TITLE 31 CHAPTER 7, RULE 7.2 (COASTAL LANDS) OF THE TEXAS ADMINISTRATIVE CODE.
 - FIELD NOTES OF THE COASTAL BOUNDARY ACCOMPANIES THIS PLAT.
 - THIS SURVEY DOES NOT NOR IS INTENDED TO BE USED TO IDENTIFY, DELINEATE OR FIX THE LINE OF VEGETATION OR THE LANDWARD BOUNDARY OF THE PUBLIC BEACH.



I, GEORGE RUBALCABA, LICENSED STATE LAND SURVEYOR, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE MEAN HIGHER HIGH WATER (MHHW) LINE SURVEY CONDUCTED ON OCTOBER 10, 2008.

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 EROSION LANDWARD AS PROVIDED BY SECTION 33.136, NATURAL RESOURCES CODE.

George Rubalcaba 11/6/09
 GEORGE RUBALCABA
 LICENSED STATE LAND SURVEYOR
 555 N CARANCAHUA SUITE 1650
 CORPUS CHRISTI, TX 78478
 361-857-2211

TEXAS GENERAL LAND OFFICE
 Art. 331.036, Natural Resources Code
 File Date 11/11/09
 Scale No. 55

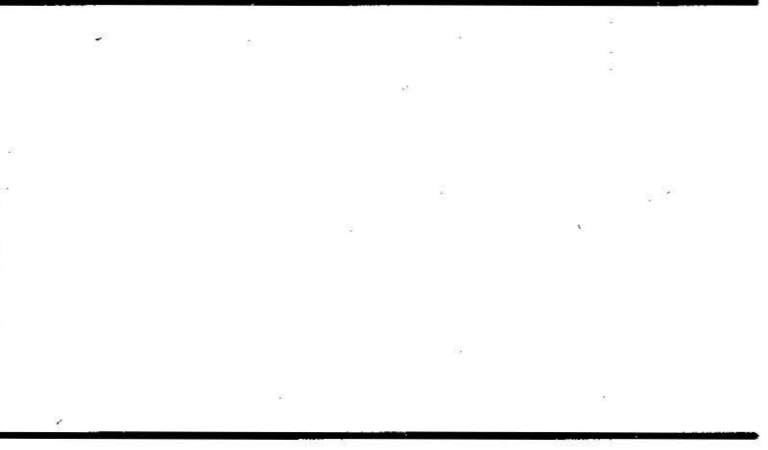
LINE	LENGTH	BEARING	VARA
L1	210.76	N39°04'56"E	75.87
L2	202.21	N50°47'10"E	72.80
L3	200.56	N44°31'38"E	72.20
L4	210.24	N40°48'04"E	75.69
L5	87.29	N60°40'07"E	31.42
L6	42.91	N74°28'02"E	15.45
L7	103.10	N44°02'56"E	37.12
L8	179.98	N53°24'39"E	64.79
L9	82.52	N54°39'33"E	29.71
L10	685.30	N53°07'12"E	246.71
L11	111.24	N64°28'59"E	40.05
L12	315.69	N58°50'07"E	113.65
L13	120.82	S53°03'53"E	43.49
L14	201.37	N47°56'20"E	72.49
L15	204.72	N51°15'01"E	73.70
L16	202.62	N46°35'31"E	72.94
L17	202.44	N45°39'23"E	72.88
L18	520.53	N50°02'57"E	187.39
L19	52.73	N77°28'08"E	18.98
L20	42.97	N74°52'37"E	15.47
L21	397.02	N58°51'00"E	142.93
L22	72.11	N86°45'28"E	25.96
L23	76.49	N64°22'39"E	27.54
L24	182.00	N15°52'59"E	65.52
L25	413.82	N55°08'42"E	148.97
L26	97.68	N52°58'35"E	35.16
L27	105.27	N63°57'47"E	37.90
L28	84.22	N51°01'10"E	30.32
L29	62.88	S63°00'56"E	22.64
L30	112.18	N49°31'48"E	40.38
L31	192.26	N54°02'08"E	69.21
L32	99.86	N27°30'25"E	35.95
L33	95.23	N29°53'04"E	34.28
L34	215.42	N50°08'21"E	77.55
L35	678.47	N55°09'33"E	244.25
L36	159.75	N58°15'00"E	57.51
L37	31.84	N68°53'01"E	11.46
L38	500.72	N52°41'28"E	180.26
L39	511.48	N55°22'34"E	184.13
L40	136.15	N64°17'15"E	49.01
L41	32.77	N55°08'09"E	11.80
L42	304.55	N49°06'37"E	109.64
L43	433.86	N60°31'28"E	156.19
L44	103.84	N60°30'52"E	37.38
L45	101.77	N57°22'52"E	36.64
L46	148.32	N25°12'26"E	53.39
L47	108.56	N74°59'13"E	39.08
L48	38.25	S78°25'54"E	13.77
L49	66.58	N76°29'38"E	23.97
L50	69.10	N44°17'26"E	24.88

LINE	LENGTH	BEARING	VARA
L51	99.49	N38°40'01"E	35.82
L52	146.09	N43°19'09"E	52.59
L53	146.93	N47°21'39"E	52.89
L54	59.14	N35°54'17"E	21.29
L55	25.14	N61°25'01"W	9.05
L56	644.77	N49°59'07"E	232.12
L57	35.33	S33°23'52"W	12.72
L58	75.96	S35°55'37"W	27.35
L59	63.72	S36°40'00"W	22.94
L60	48.38	N69°28'03"E	17.42
L61	67.66	N57°20'28"E	24.36
L62	151.17	N52°10'38"E	54.42
L63	84.30	N05°30'01"W	30.35
L64	58.72	N69°29'39"E	21.14
L65	24.15	N79°51'46"E	8.69
L66	62.63	S67°30'32"E	22.55
L67	146.09	N71°42'14"E	52.59
L68	149.47	N50°05'20"E	53.81
L69	148.74	N48°07'23"E	53.55
L70	149.20	N54°14'13"E	53.71
L71	148.18	N58°22'26"E	53.34
L72	147.92	N58°56'50"E	53.25
L73	149.57	N46°28'16"E	53.84
L74	151.11	N48°52'28"E	54.40
L75	127.07	N54°44'11"E	45.74
L76	91.40	N21°36'29"W	32.90
L77	124.95	S72°47'25"E	44.98
L78	90.61	S79°48'13"E	32.62
L79	145.56	N50°43'56"E	52.40
L80	150.86	N44°45'49"E	54.31
L81	103.61	N39°31'31"E	37.30
L82	152.44	N30°55'28"E	54.88
L83	146.86	N35°44'55"E	52.87
L84	84.50	N09°08'41"E	30.42
L85	44.46	N40°17'33"E	16.01
L86	81.57	N72°06'57"E	29.36
L87	100.41	N48°47'01"E	36.15
L88	28.06	N36°55'52"W	10.10
L89	34.45	N72°25'40"W	12.40
L90	421.45	N51°44'58"E	151.72
L91	79.05	S20°30'19"W	28.46
L92	46.30	S68°10'40"E	16.67
L93	59.40	N63°47'50"E	21.38
L94	107.95	N28°27'09"E	38.86
L95	116.77	N22°57'51"E	42.04
L96	331.88	N51°05'00"E	119.40
L97	95.77	N62°41'28"E	34.48
L98	173.30	N56°05'14"E	62.39
L99	78.44	N46°17'10"E	28.24
L100	67.92	S88°23'19"E	24.45

LINE	LENGTH	BEARING	VARA
L101	77.95	N55°50'20"E	28.06
L102	105.36	N37°23'00"E	37.93
L103	96.59	N26°03'30"E	34.77
L104	22.97	N50°40'13"W	8.27
L105	34.96	S52°51'29"W	12.59
L106	94.28	N33°08'14"E	33.94
L107	86.33	N31°15'35"E	31.08
L108	98.19	N45°30'12"E	35.35
L109	162.93	N44°57'01"E	58.65
L110	171.56	N43°33'08"E	61.76
L111	208.98	N47°15'33"E	75.23
L112	55.45	N86°41'30"E	19.96
L113	161.17	N48°31'17"E	58.02
L114	196.32	N49°36'40"E	70.67
L115	43.28	N37°08'24"E	15.58
L116	32.36	N46°32'24"E	11.65
L117	77.19	N56°01'55"E	27.79
L118	68.16	S81°46'34"E	24.54
L119	74.60	N39°08'27"E	26.86
L120	123.94	N43°15'27"E	44.62
L121	196.13	N33°55'16"E	70.61
L122	16.38	N53°04'02"W	5.90
L123	208.16	S47°28'56"W	74.94
L124	193.02	S55°54'09"W	69.49
L125	598.30	N46°15'05"E	215.39
L126	483.00	N46°21'29"E	173.88
L127	77.15	S34°43'34"W	27.77
L128	152.33	S26°25'44"W	54.84
L129	132.20	N49°51'37"E	47.59
L130	201.59	N42°01'27"E	72.57
L131	198.65	N39°24'55"E	71.51
L132	68.76	N19°44'12"E	24.75
L133	41.21	N60°05'16"E	14.84
L134	93.63	N60°47'25"E	33.71
L135	63.57	N53°49'46"E	22.89
L136	52.30	N30°22'46"E	18.83
L137	79.22	S72°24'41"W	28.52
L138	90.14	N42°06'48"E	32.45
L139	749.18	N46°06'55"E	269.70
L140	835.34	N48°07'16"E	300.72
L141	207.56	N53°08'36"E	74.72
L142	302.01	N49°01'16"E	108.72
L143	204.04	N28°28'50"E	73.45
L144	210.39	N31°57'53"E	75.74
L145	143.52	S73°44'45"E	51.67
L146	113.49	N27°10'45"E	40.86
L147	187.86	N38°39'18"E	67.63
L148	255.67	N42°38'06"E	92.04
L149	208.85	N39°57'41"E	75.19
L150	208.65	N49°38'45"E	75.11
L151	203.67	N45°38'40"E	73.32
L152	103.01	N41°26'32"E	37.08
L153	104.23	N47°24'10"E	37.52
L154	107.35	N46°26'17"E	38.65
L155	103.22	N46°44'21"E	37.16

ISSUE	DATE	DESCRIPTION
1	12/22/08	REVISED PER GLO COMMENTS
0	11/11/08	ISSUED TO CLIENT

PROJECT MANAGER	CAMRON PERRY
DRAWN BY	B. INFANTE
CHECKED BY	G. RUBALCABA
PROJECT NUMBER	94162

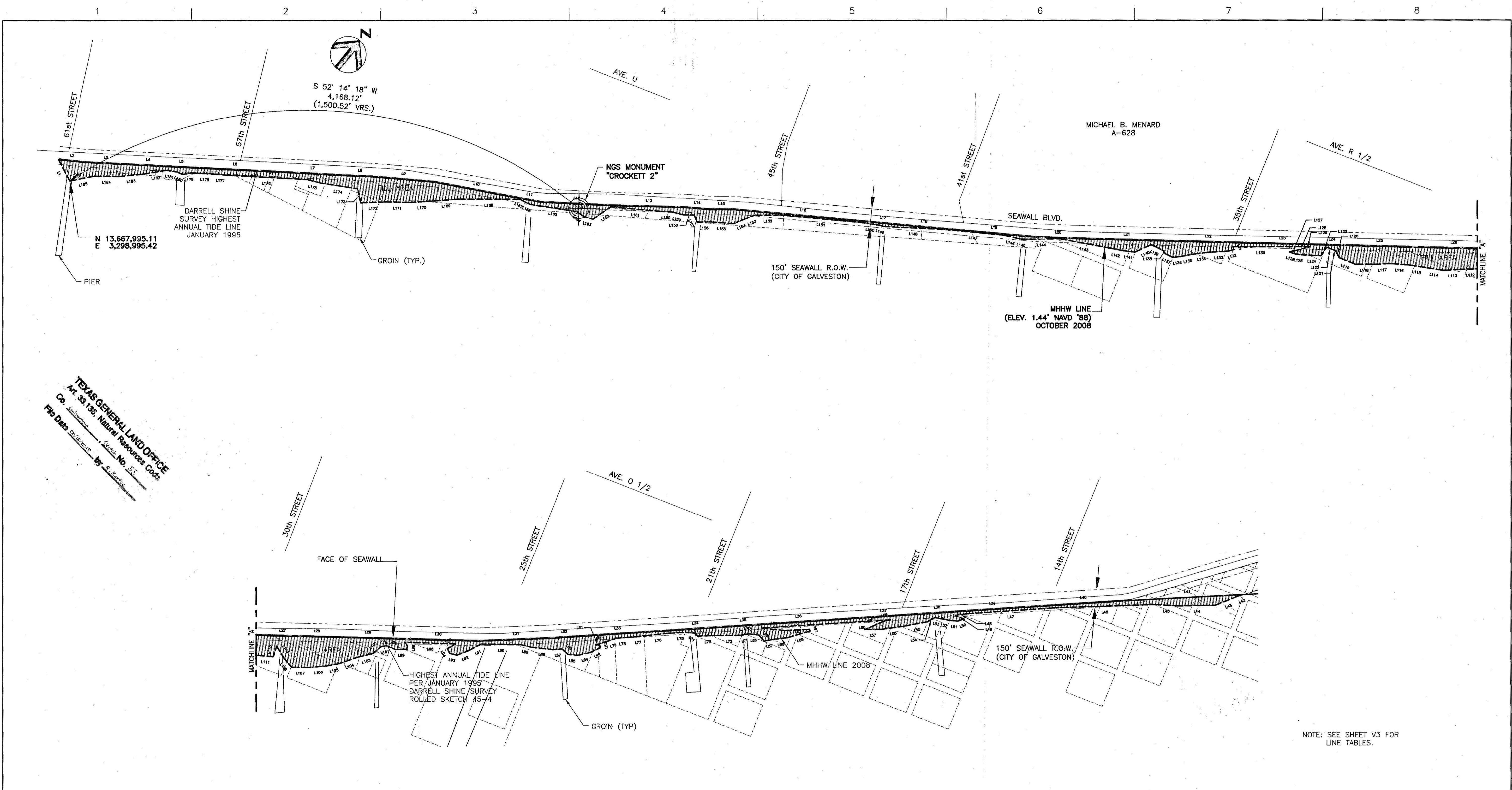


GALVESTON PARK BOARD OF TRUSTEES
 GALVESTON SEAWALL
 6TH ST TO 61ST ST

COASTAL BOUNDARY

0 400' 800' 1,200' 1,600'

FILENAME: 00V-01.DWG
 SCALE: AS SHOWN
 SHEET: V1



TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Co. Galveston, Survey No. 55
 File Date 11/11/08 by G. Rubalcaba

George Rubalcaba 11/11/08
 GEORGE RUBALCABA
 LICENSED STATE LAND SURVEYOR
 555 N CARANCAHUA SUITE 1650
 CORPUS CHRISTI, TX 78478
 361-857-2211



I, GEORGE RUBALCABA, LICENSED STATE LAND SURVEYOR, HEREBY STATE THAT THIS DRAWING REPRESENTS THE CONDITIONS THAT EXISTED AT THE TIME OF THE MEAN HIGHER HIGH WATER (MHHW) LINE SURVEY CONDUCTED ON OCTOBER 10, 2008.
NOTICE: THE LIMITS OF THE ARTIFICIAL FILL BOUNDARY WAS DETERMINED BY METHODOLOGY APPROVED BY THE GENERAL LAND OFFICE AS PER TITLE 31, PART 1, RULE 7.2 (COASTAL LANDS) OF THE TEXAS ADMINISTRATIVE CODE.

NOTE: SEE SHEET V3 FOR LINE TABLES.

HDR
SHINER MOSELEY

ISSUE	DATE	DESCRIPTION
1	12/22/08	REVISED PER GLO COMMENTS
0	11/11/08	ISSUED TO CLIENT

PROJECT MANAGER	CAMRON PERRY
DRAWN BY	L. MOORE
CHECKED BY	G. RUBALCABA
PROJECT NUMBER	94162

GALVESTON PARK BOARD OF TRUSTEES

GALVESTON SEAWALL
 6TH ST TO 61ST ST

FILL AREA BETWEEN
 1995 AND 2008 SURVEYS

0 400' 800'

FILENAME	00V-02.dwg	SHEET	V2
SCALE	AS SHOWN		

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L1	198.02	N67°39'58"W	71.29
L2	217.68	N55°34'44"E	78.36
L3	350.39	N52°58'15"E	126.14
L4	358.05	N52°49'54"E	128.90
L5	200.12	N52°47'58"E	72.04
L6	699.28	N52°48'34"E	251.74
L7	599.70	N52°57'01"E	215.89
L8	201.30	N52°23'01"E	72.47
L9	522.75	N54°51'44"E	188.19
L10	699.36	N60°41'05"E	251.77
L11	201.65	N60°43'31"E	72.59
L12	609.01	N52°49'07"E	219.24
L13	600.83	N51°27'35"E	216.30
L14	200.08	N54°49'23"E	72.03
L15	215.83	N50°15'02"E	77.70
L16	1148.34	N55°13'06"E	413.40
L17	200.16	N55°11'45"E	72.06
L18	492.52	N55°11'45"E	177.31
L19	683.71	N55°05'46"E	246.14
L20	400.73	N52°18'40"E	144.26
L21	750.76	N51°26'22"E	270.27
L22	619.47	N51°26'32"E	223.01
L23	629.57	N51°26'32"E	226.65
L24	200.28	N51°25'38"E	72.10
L25	600.43	N51°28'00"E	216.15

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L26	643.36	N51°26'37"E	231.61
L27	199.83	N51°22'25"E	71.94
L28	370.81	N51°06'26"E	133.49
L29	484.92	N51°43'18"E	174.57
L30	692.88	N51°26'08"E	249.44
L31	609.45	N47°43'06"E	219.40
L32	200.00	N46°16'13"E	72.00
L33	698.94	N46°15'09"E	251.62
L34	601.28	N46°15'55"E	216.46
L35	200.32	N46°13'05"E	72.12
L36	733.31	N46°15'16"E	263.99
L37	699.82	N46°15'17"E	251.94
L38	199.83	N46°12'52"E	71.94
L39	731.02	N46°15'14"E	263.17
L40	800.23	N46°16'19"E	288.08
L41	936.70	N47°01'41"E	337.21
L42	45.65	S31°57'53"W	16.43
L43	204.04	S28°28'50"W	73.45
L44	302.01	S49°01'16"W	108.72
L45	207.56	S53°08'36"W	74.72
L46	835.34	S48°07'16"W	300.72
L47	749.18	S46°06'55"W	269.70
L48	90.14	S42°06'48"W	32.45
L49	79.22	N72°24'41"E	28.52
L50	52.30	S30°22'46"W	18.83

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L51	63.57	S53°49'46"W	22.89
L52	93.63	S60°47'25"W	33.71
L53	41.21	S60°05'16"W	14.84
L54	68.76	S19°44'12"W	24.75
L55	198.65	S39°24'55"W	71.51
L56	201.59	S42°01'27"W	72.57
L57	132.20	S49°51'37"W	47.59
L58	152.33	N26°25'44"E	54.84
L59	77.15	N34°43'34"E	27.77
L60	483.00	S46°21'29"W	173.88
L61	598.30	S46°15'05"W	215.39
L62	193.02	N55°54'09"E	69.49
L63	208.16	N47°28'56"E	74.94
L64	16.38	S53°04'02"E	5.90
L65	196.13	S33°55'16"W	70.61
L66	123.94	S43°15'27"W	44.62
L67	74.60	S39°08'27"W	26.86
L68	68.16	N81°46'34"W	24.54
L69	77.19	S61°01'55"W	27.79
L70	32.36	S46°32'24"W	11.65
L71	43.28	S37°08'24"W	15.58
L72	196.32	S49°36'40"W	70.68
L73	161.17	S48°31'17"W	58.02
L74	55.45	S86°41'30"W	19.96
L75	208.98	S47°15'33"W	75.23

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L76	171.56	S43°33'08"W	61.76
L77	162.93	S44°57'01"W	58.65
L78	98.19	S45°30'12"W	35.35
L79	86.33	S31°15'35"W	31.08
L80	94.28	S33°08'14"W	33.94
L81	34.96	N52°51'29"E	12.59
L82	22.97	S50°40'13"E	8.27
L83	96.59	S26°03'30"W	34.77
L84	105.36	S37°23'00"W	37.93
L85	77.95	S55°50'20"W	28.06
L86	67.92	N88°23'19"W	24.45
L87	78.44	S46°17'10"W	28.24
L88	173.30	S56°05'14"W	62.39
L89	95.77	S62°41'28"W	34.48
L90	331.68	S51°05'00"W	119.40
L91	116.77	S22°57'51"W	42.04
L92	107.95	S28°27'09"W	38.86
L93	59.40	S63°47'50"W	21.38
L94	46.30	N68°10'40"W	16.67
L95	79.05	N20°30'19"E	28.46
L96	421.45	S51°44'58"W	151.72
L97	34.45	S72°25'40"E	12.40
L98	28.06	S36°55'52"E	10.10
L99	100.41	S48°47'01"W	36.15
L100	81.57	S72°06'57"W	29.37

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L101	44.46	S40°17'33"W	16.01
L102	84.50	S9°08'41"W	30.42
L103	146.86	S35°44'55"W	52.87
L104	152.44	S30°55'28"W	54.88
L105	103.61	S39°31'31"W	37.30
L106	150.86	S44°45'49"W	54.31
L107	145.56	S50°43'56"W	52.40
L108	90.61	N79°48'13"W	32.62
L109	124.95	N72°47'25"W	44.98
L110	91.40	S21°36'29"E	32.90
L111	127.07	S54°44'11"W	45.75
L112	151.11	S48°52'28"W	54.40
L113	149.57	S46°28'16"W	53.85
L114	147.92	S58°56'50"W	53.25
L115	148.18	S58°22'26"W	53.34
L116	149.20	S54°14'13"W	53.71
L117	148.74	S48°07'23"W	53.55
L118	149.47	S50°05'20"W	53.81
L119	146.09	S71°42'14"W	52.59
L120	62.63	N67°30'32"W	22.55
L121	24.15	S79°51'46"W	8.69
L122	58.72	S69°29'39"W	21.14
L123	84.30	S53°00'01"E	30.35
L124	151.17	S52°10'38"W	54.42
L125	67.66	S57°20'28"W	24.36

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L126	48.38	S69°28'03"W	17.42
L127	63.72	N36°40'00"E	22.94
L128	75.96	N35°55'37"E	27.35
L129	35.33	N33°23'52"E	12.72
L130	644.77	S49°59'07"W	232.12
L131	25.14	S61°25'01"E	9.05
L132	59.14	S35°54'17"W	21.29
L133	146.93	S47°21'39"W	52.89
L134	146.09	S43°19'09"W	52.59
L135	99.49	S38°40'01"W	35.82
L136	69.10	S44°17'26"W	24.88
L137	66.58	S76°29'38"W	23.97
L138	38.25	N78°25'54"W	13.77
L139	108.56	S74°59'13"W	39.08
L140	148.32	S25°12'26"W	53.40
L141	101.77	S57°22'52"W	36.64
L142	103.84	S60°30'52"W	37.38
L143	433.86	S60°31'28"W	156.19
L144	304.55	S49°06'37"W	109.64
L145	32.77	S55°06'09"W	11.80
L146	136.15	S64°17'15"W	49.01
L147	511.48	S55°22'34"W	184.13
L148	500.72	S52°41'28"W	180.26
L149	31.84	S68°53'01"W	11.46
L150	159.75	S58°15'00"W	57.51

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L151	678.47	S55°09'33"W	244.25
L152	215.42	S50°08'21"W	77.55
L153	95.23	S29°53'04"W	34.28
L154	99.86	S27°30'25"W	35.95
L155	192.26	S54°02'08"W	69.21
L156	112.18	S49°31'48"W	40.38
L157	62.88	N63°00'55"W	22.64
L158	84.22	S51°01'10"W	30.32
L159	105.27	S63°57'47"W	37.90
L160	97.68	S52°58'35"W	35.16
L161	413.82	S55°08'42"W	148.98
L162	182.00	S15°52'59"W	65.52
L163	76.49	S64°22'39"W	27.54
L164	72.11	S86°45'28"W	25.96
L165	397.02	S58°51'00"W	142.93
L166	42.97	S74°52'37"W	15.47
L167	52.73	S77°28'08"W	18.98
L168	520.53	S50°02'57"W	187.39
L169	202.44	S45°39'23"W	72.88
L170	202.62	S46°35'31"W	72.94
L171	204.72	S51°15'01"W	73.70
L172	201.37	S47°56'20"W	72.49
L173	120.82	N53°03'53"W	43.50
L174	315.69	S58°50'07"W	113.65
L175	111.24	S64°28'59"W	40.05

LINE TABLE			
LINE	LENGTH	DIRECTION	VARA
L176	685.30	S53°07'12"W	246.71
L177	82.52	S54°39'33"W	29.71
L178	179.98	S53°24'39"W	64.79
L179	103.10	S44°02'56"W	37.12
L180	42.91	S74°28'02"W	15.45
L181	87.29	S60°40'07"W	31.42
L182	210.24	S40°48'04"W	75.69
L183	200.56	S44°31'38"W	72.20
L184	202.21	S50°47'10"W	72.80
L185	210.76	S39°04'56"W	75.87

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 Co. Galveston - Sheet No. 55
 FCS-DBB Addendum by E. Leal

George Rubalcaba 11/6/08
 GEORGE RUBALCABA
 LICENSED STATE LAND SURVEYOR
 555 N CARANCAHUA SUITE 1650
 CORPUS CHRISTI, TX 78478
 361-857-2211



HDR
SHINER MOSELEY

ISSUE	DATE	DESCRIPTION
1	12/22/08	REVISED PER GLO COMMENTS
0	11/11/08	ISSUED TO CLIENT

PROJECT MANAGER	CAMRON PERRY
DRAWN BY	L. MOORE
CHECKED BY	G. RUBALCABA
PROJECT NUMBER	94162

GALVESTON PARK BOARD OF TRUSTEES
 GALVESTON SEAWALL
 6TH ST TO 61ST ST

FILL AREA BETWEEN 1995 AND 2008 SURVEY	
FILENAME	00V-03.dwg
SCALE	NO SCALE
SHEET	V3



**Survey Division
Coastal Boundary Survey Approval**

Project: Galveston Seawall Emergency Beach Nourishment

Project No: CEPRA No. 1447

Project Manager: Matthew Mahoney (GLO Coastal Resources)
(Surveyor – George Rubalcaba, LSLs)

Description: Shoreline Boundary survey of the M. B. Menard and the Hall & Jones surveys, on the northern shore of the Gulf of Mexico, along the Galveston Seawall extending from 8th Street westward to 61st Street, Galveston County, Texas.

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: David A. [Signature]
Survey Division

Jan. 13, 2009
Date

Approval Filed as:

Tex. Nat. Res. Code Article 33.136 Galveston County Report No. 55

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. GALVESTON, Sketch No. 55

File Date 06/18/18 by K. Schreiber

METES AND BOUNDS DESCRIPTION
OF FILL AREA
WITHIN MICHAEL B. MENARD SURVEY, A-628,
GALVESTON COUNTY, TEXAS

Being the fill area between the coastal boundary of the east shoreline of Galveston Island determined by HDR Engineering, Inc. from an on the ground survey conducted by GPS observations on October 10, 2008, said coastal boundary being the Mean Higher High Water Line determined from TCOON Galveston Pleasure Pier Tide Gauge No. 021 at elevation +1.44'NAVD '88, and the Highest Annual Tide Line determined by Darrell Shine in January 1995, this fill area each being more particularly described by metes and bounds as follows:

Fill Area (32.41 Acres)

Beginning at the south corner of said fill area, said corner having a State Plane Grid Coordinate of N = 13,668,158.71, E = 3,299,128.29, Texas South Central Zone, NAD '83;

Thence along the Highest Annual Tide Line as follows:

N 67°39'58" W, 198.02 feet (71.29 varas);
 N 55°34'44" E, 217.68 feet (78.36 varas);
 N 52°58'15" E, 350.39 feet (126.14 varas);
 N 52°49'54" E, 358.05 feet (128.90 varas);
 N 52°47'58" E, 200.12 feet (72.04 varas);
 N 52°48'34" E, 699.28 feet (251.74 varas);
 N 52°57'01" E, 599.70 feet (215.89 varas);
 N 52°23'01" E, 201.30 feet (72.47 varas);
 N 54°51'44" E, 522.75 feet (188.19 varas);
 N 60°41'05" E, 699.36 feet (251.77 varas);
 N 60°43'31" E, 201.65 feet (72.59 varas);
 N 52°49'07" E, 609.01 feet (219.24 varas);
 N 51°27'35" E, 600.83 feet (216.30 varas);
 N 54°49'23" E, 200.08 feet (72.03 varas);
 N 50°15'02" E, 215.83 feet (77.70 varas);
 N 55°13'06" E, 1148.34 feet (413.40 varas);
 N 55°11'45" E, 200.16 feet (72.06 varas);
 N 55°11'45" E, 492.52 feet (177.31 varas);
 N 55°05'46" E, 683.71 feet (246.14 varas);
 N 52°18'40" E, 400.73 feet (144.26 varas);
 N 51°26'22" E, 750.76 feet (270.27 varas);
 N 51°26'32" E, 619.47 feet (223.01 varas);
 N 51°26'32" E, 629.57 feet (226.65 varas);
 N 51°25'38" E, 200.28 feet (72.10 varas);
 N 51°28'00" E, 600.43 feet (216.15 varas);
 N 51°26'37" E, 643.36 feet (231.61 varas);
 N 51°22'25" E, 199.83 feet (71.94 varas);
 N 51°06'26" E, 370.81 feet (133.49 varas);
 N 51°43'18" E, 484.92 feet (174.57 varas);
 N 51°26'08" E, 692.88 feet (249.44 varas);
 N 47°43'06" E, 609.45 feet (219.40 varas);
 N 46°16'13" E, 200.00 feet (72.00 varas);
 N 46°15'09" E, 698.94 feet (251.62 varas);
 N 46°15'55" E, 601.28 feet (216.46 varas);
 N 46°13'05" E, 200.32 feet (72.12 varas);
 N 46°15'16" E, 733.31 feet (263.99 varas);
 N 46°15'17" E, 699.82 feet (251.94 varas);
 N 46°12'52" E, 199.83 feet (71.94 varas);
 N 46°15'14" E, 731.02 feet (263.17 varas);
 N 46°16'19" E, 800.23 feet (288.08 varas);
 N 47°01'41" E, 936.70 feet (337.21 varas) to the north corner of this fill area, said corner being the Mean Higher High Water Line as surveyed by HDR Engineering, Inc. on October 10, 2008;

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Thence along the Mean Higher High Water Line as follows:

S 31°57'53" W, 45.65 feet (16.43 varas);
 S 28°28'50" W, 204.04 feet (73.45 varas);
 S 49°01'16" W, 302.01 feet (108.72 varas);
 S 53°08'36" W, 207.56 feet (74.72 varas);
 S 48°07'16" W, 835.34 feet (300.72 varas);
 S 46°06'55" W, 749.18 feet (269.70 varas);
 S 42°06'48" W, 90.14 feet (32.45 varas);
 N 72°24'41" E, 79.22 feet (28.52 varas);
 S 30°22'46" W, 52.30 feet (18.83 varas);
 S 53°49'46" W, 63.57 feet (22.89 varas);
 S 60°47'25" W, 93.63 feet (33.71 varas);
 S 60°05'16" W, 41.21 feet (14.84 varas);
 S 19°44'12" W, 68.76 feet (24.75 varas);
 S 39°24'55" W, 198.65 feet (71.51 varas);
 S 42°01'27" W, 201.59 feet (72.57 varas);
 S 49°51'37" W, 132.20 feet (47.59 varas);
 N 26°25'44" E, 152.33 feet (54.84 varas);
 N 34°43'34" E, 77.15 feet (27.77 varas);
 S 46°21'29" W, 483.00 feet (173.89 varas);
 S 46°15'05" W, 598.30 feet (215.39 varas);
 N 55°54'09" E, 193.02 feet (69.49 varas);
 N 47°28'56" E, 208.16 feet (74.94 varas);
 S 53°04'02" E, 16.38 feet (5.90 varas);
 S 33°55'16" W, 196.13 feet (70.61 varas);
 S 43°15'27" W, 123.94 feet (44.62 varas);
 S 39°08'27" W, 74.60 feet (26.86 varas);
 N 81°46'34" W, 68.16 feet (24.54 varas);
 S 56°01'55" W, 77.19 feet (27.79 varas);
 S 46°32'24" W, 32.36 feet (11.65 varas);
 S 37°08'24" W, 43.28 feet (15.58 varas);
 S 49°36'40" W, 196.32 feet (70.68 varas);
 S 48°31'17" W, 161.17 feet (58.02 varas);
 S 86°41'30" W, 55.45 feet (19.96 varas);
 S 47°15'33" W, 208.98 feet (75.23 varas);
 S 43°33'08" W, 171.56 feet (61.76 varas);
 S 44°57'01" W, 162.93 feet (58.65 varas);
 S 45°30'12" W, 98.19 feet (35.35 varas);
 S 31°15'35" W, 86.33 feet (31.08 varas);
 S 33°08'14" W, 94.28 feet (33.94 varas);
 N 52°51'29" E, 34.96 feet (12.59 varas);
 S 50°40'13" E, 22.97 feet (8.27 varas);
 S 26°03'30" W, 96.59 feet (34.77 varas);
 S 37°23'00" W, 105.36 feet (37.93 varas);
 S 55°50'20" W, 77.95 feet (28.06 varas);
 N 88°23'19" W, 67.92 feet (24.45 varas);
 S 46°17'10" W, 78.44 feet (28.24 varas);
 S 56°05'14" W, 173.30 feet (62.39 varas);
 S 62°41'28" W, 95.77 feet (34.48 varas);
 S 51°05'00" W, 331.68 feet (119.40 varas);
 S 22°57'51" W, 116.77 feet (42.04 varas);
 S 28°27'09" W, 107.95 feet (38.86 varas);
 S 63°47'50" W, 59.40 feet (21.38 varas);
 N 68°10'40" W, 46.30 feet (16.67 varas);
 N 20°30'19" E, 79.05 feet (28.46 varas);
 S 51°44'58" W, 421.45 feet (151.72 varas);
 S 72°25'40" E, 34.45 feet (12.40 varas);
 S 36°55'52" E, 28.06 feet (10.10 varas);
 S 48°47'01" W, 100.41 feet (36.15 varas);
 S 72°06'57" W, 81.57 feet (29.37 varas);
 S 40°17'33" W, 44.46 feet (16.01 varas);

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S 09°08'41" W, 84.50 feet (30.42 varas);
 S 35°44'55" W, 146.86 feet (52.87 varas);
 S 30°55'28" W, 152.44 feet (54.88 varas);
 S 39°31'31" W, 103.61 feet (37.30 varas);
 S 44°45'49" W, 150.86 feet (54.31 varas);
 S 50°43'56" W, 145.56 feet (52.40 varas);
 N 79°48'13" W, 90.61 feet (32.62 varas);
 N 72°47'25" W, 124.95 feet (44.98 varas);
 S 21°36'29" E, 91.40 feet (32.90 varas);
 S 54°44'11" W, 127.07 feet (45.75 varas);
 S 48°52'28" W, 151.11 feet (54.40 varas);
 S 46°28'16" W, 149.57 feet (53.85 varas);
 S 58°56'50" W, 147.92 feet (53.25 varas);
 S 58°22'26" W, 148.18 feet (53.34 varas);
 S 54°14'13" W, 149.20 feet (53.71 varas);
 S 48°07'23" W, 148.74 feet (53.55 varas);
 S 50°05'20" W, 149.47 feet (53.81 varas);
 S 71°42'14" W, 146.09 feet (52.59 varas);
 N 67°30'32" W, 62.63 feet (22.55 varas);
 S 79°51'46" W, 24.15 feet (8.69 varas);
 S 69°29'39" W, 58.72 feet (21.14 varas);
 S 05°30'01" E, 84.30 feet (30.35 varas);
 S 52°10'38" W, 151.17 feet (54.42 varas);
 S 57°20'28" W, 67.66 feet (24.36 varas);
 S 69°28'03" W, 48.38 feet (17.42 varas);
 N 36°40'00" E, 63.72 feet (22.94 varas);
 N 35°55'37" E, 75.96 feet (27.35 varas);
 N 33°23'52" E, 35.33 feet (12.72 varas);
 S 49°59'07" W, 644.77 feet (232.12 varas);
 S 61°25'01" E, 25.14 feet (9.05 varas);
 S 35°54'17" W, 59.14 feet (21.29 varas);
 S 47°21'39" W, 146.93 feet (52.89 varas);
 S 43°19'09" W, 146.09 feet (52.59 varas);
 S 38°40'01" W, 99.49 feet (35.82 varas);
 S 44°17'26" W, 69.10 feet (24.88 varas);
 S 76°29'38" W, 66.58 feet (23.97 varas);
 N 78°25'54" W, 38.25 feet (13.77 varas);
 S 74°59'13" W, 108.56 feet (39.08 varas);
 S 25°12'26" W, 148.32 feet (53.40 varas);
 S 57°22'52" W, 101.77 feet (36.64 varas);
 S 60°30'52" W, 103.84 feet (37.38 varas);
 S 60°31'28" W, 433.86 feet (156.19 varas);
 S 49°06'37" W, 304.55 feet (109.64 varas);
 S 55°06'09" W, 32.77 feet (11.80 varas);
 S 64°17'15" W, 136.15 feet (49.01 varas);
 S 55°22'34" W, 511.48 feet (184.13 varas);
 S 52°41'28" W, 500.72 feet (180.26 varas);
 S 68°53'01" W, 31.84 feet (11.46 varas);
 S 58°15'00" W, 159.75 feet (57.51 varas);
 S 55°09'33" W, 678.47 feet (244.25 varas);
 S 50°08'21" W, 215.42 feet (77.55 varas);
 S 29°53'04" W, 95.23 feet (34.28 varas);
 S 27°30'25" W, 99.86 feet (35.95 varas);
 S 54°02'08" W, 192.26 feet (69.21 varas);
 S 49°31'48" W, 112.18 feet (40.38 varas);
 N 63°00'55" W, 62.88 feet (22.64 varas);
 S 51°01'10" W, 84.22 feet (30.32 varas);
 S 63°57'47" W, 105.27 feet (37.90 varas);
 S 52°58'35" W, 97.68 feet (35.16 varas);
 S 55°08'42" W, 413.82 feet (148.98 varas);
 S 15°52'59" W, 182.00 feet (65.52 varas);
 S 64°22'39" W, 76.49 feet (27.54 varas);

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S 86°45'28" W, 72.11 feet (25.96 varas);
 S 58°51'00" W, 397.02 feet (142.93 varas);
 S 74°52'37" W, 42.97 feet (15.47 varas);
 S 77°28'08" W, 52.73 feet (18.98 varas);
 S 50°02'57" W, 520.53 feet (187.39 varas);
 S 45°39'23" W, 202.44 feet (72.88 varas);
 S 46°35'31" W, 202.62 feet (72.94 varas);
 S 51°15'01" W, 204.72 feet (73.70 varas);
 S 47°56'20" W, 201.37 feet (72.49 varas);
 N 53°03'53" W, 120.82 feet (43.50 varas);
 S 58°50'07" W, 315.69 feet (113.65 varas);
 S 64°28'59" W, 111.24 feet (40.05 varas);
 S 53°07'12" W, 685.30 feet (246.71 varas);
 S 54°39'33" W, 82.52 feet (29.71 varas);
 S 53°24'39" W, 179.98 feet (6.47 varas);
 S 44°02'56" W, 103.10 feet (37.12 varas);
 S 74°28'02" W, 42.91 feet (15.45 varas);
 S 60°40'07" W, 87.29 feet (31.42 varas);
 S 40°48'04" W, 210.24 feet (75.69 varas);
 S 44°31'38" W, 200.56 feet (72.20 varas);
 S 50°47'10" W, 202.21 feet (72.80 varas);
 Thence S 39°04'56" W, 210.76 feet (75.87 varas) to the point of beginning and
 containing within these metes and bounds 32.41 acres of land, more or less.



- Note: 1.) Bearings based on "Texas Coordinate System" per Section 21.071 of the Natural Resources Code. Area noted is grid.
- 2.) The limits of these artificial fill boundaries were determined by methodology approved by the Texas General Land Office as per Title 31, Part 1, Chapter 7, Rule 7.2 (Coastal Lands) of the Texas Administrative Code.

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December 22, 2008

92686

**SURVEYOR'S REPORT
ON FILL AREAS
AT
GALVESTON SEAWALL
BETWEEN
10TH STREET AND 61ST STREET**

As per a contract with the Park Board of Trustees of Galveston County, a coastal boundary along the Galveston Seawall was conducted by HDR Engineering, Inc. under my direction on October 10, 2008, from 6th Street to 61st Street.

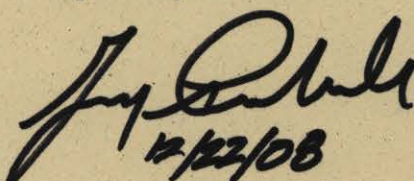
As per previous surveys conducted on the beach in West Galveston Island, the Mean Higher High Water (MHHW) elevation based on the tide gauge information at Pleasure Pier, which has been deemed acceptable by the Texas General Land Office, was used. This MHHW elevation was determined to be at 1.44' NAVD'88. In addition, National Geodetic Survey (NGS) monuments were used for both horizontal and vertical control and checks were run between the monuments to check for any displacement and/or subsidence.

As per conversations and e-mails with the TGLO, the coastal boundary conducted was deemed by the TGLO to be seaward of a Highest Annual Tide Line run by Darrell Shine in January of 1995, and therefore deemed filled areas. The attached drawing and fieldnote description is attached for submittal to the TGLO as per Title 31, Part 1, Chapter 7, Rule 7.2 (5) of the Texas Administrative Code regarding the limits of the fill area that was determined in consultation with the TGLO. The right-of-way for the seawall was placed based on information furnished by the TGLO.

The fill area was determined to be the area where our survey of the MHHW line was seaward of the Darrel Shine Survey of the Highest Annual Tide Line conducted in January of 1995. This fill area was found to run continuously from 61st Street northeastward to 10th Street and is noted on the drawing and described in the fieldnote description. The location of the Highest Annual Tide Line run by Mr. Darrell Shine was defined by NAD'27, State Plane Coordinates, Texas South Central Zone in U. S. feet, and the coordinates were converted to NAD'83 datum using the U. S. Corps of Engineers Corpscon program. The elevation on which Mr. Shine ran his line was found not to be noted on the drawing.

This report is submitted as part of Title 31, Part 1, Chapter 7, Rule 7.2 (5) of the Texas Administrative Code defining the limits of the fill area that was identified in consultation with the TGLO.

Respectfully Submitted.


12/22/08



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December 22, 2008

J92686

Mr. William "Bill" O'Hara, RPLS, LSLS
Director, Surveying Division
Texas General Land Office
Stephen F. Austin Building
1700 North Congress Avenue
Austin, Texas 78701-1495

**RE: COASTAL BOUNDARY SURVEY AND FILL AREAS AT GALVESTON
SEAWALL**

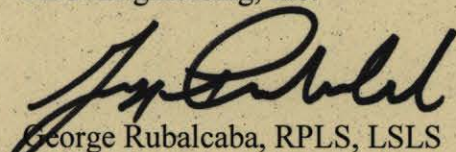
Dear Bill,

Enclosed herewith is the coastal boundary survey conducted at the Galveston seawall reflecting the revisions made as per your comments. In addition, we have also enclosed the separate map of the fill areas with the fieldnote description of the fill areas and our survey report as pertaining to the survey by Mr. Darrell Shine in 1995 and our survey done in 2008.

As per your comments, we are incorporating Mr. Darrell Shine's survey conducted in January of 1995 and only going from 10th Street to 61st Street as the limits of the survey.

If you should have any additional comments or need additional clarifications, please let me know.

Sincerely,
HDR Engineering, Inc.


George Rubalcaba, RPLS, LSLS
Survey Group Manager

GR/alo

Enclosures

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
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A F F I D A V I T

GENERAL LAND OFFICE
NOTICE OF APPROVAL OF COASTAL BOUNDARY SURVEY

ent

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, submitted by George R. Alcoba, Licensed State Land Surveyor, conducted October 10, 2008, locating the following shoreline boundary:

Survey in Galveston County, a portion of the Texas Gulf Coast shoreline including the shoreline of the Michael B. Menard Survey, A-628 and the Edward Hall & Levi Jones Survey, A-121, along the Galveston Festival from 11th Street to 11th Street.

For a copy of this survey or more information on this survey, call:

Or visit the website of the General Land Office by clicking on the link: www.glo.state.tx.us

Bill 2008-0010, State of Texas, or call 512-261-5223.

Published: 1/29/09 & Feb. 17, 2009

00198566

County of Galveston §
§
State of Texas §

Before me, the undersigned authority, on this day personally came and appeared Sandra Villamil, to me well known (or proved to me on the basis of satisfactory evidence), and who after being duly sworn (affirmed) did depose and say that she is an AGENT for THE GALVESTON COUNTY DAILY NEWS, a newspaper of general circulation, which has been continuously and regularly published for a period of not less than one year, in the County of Galveston, and that the NOTICE, a copy of which is hereto attached was published in said newspaper on the following days, to wit:

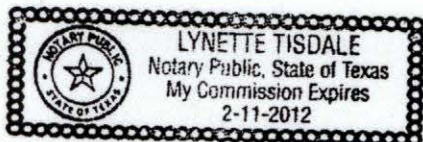
January 25 & Feb. 1, 2009

Sandra Villamil
Agent Signature

Sworn and subscribed before me

On this the 10th day of Feb., 2009

Lynette Tisdale
Notary for the State of Texas



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AGENCY General Land Office

ISSUE 03/06/2009

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**, submitted by George Rubalcaba, Licensed State Land Surveyor, conducted October 10, 2008, locating the following shoreline boundary:

Survey in Galveston County, a portion of the Texas Gulf Coast shoreline including the shoreline of the Michael B. Menard Survey, A-628 and the Edward Hall & Levi Jones Survey, A-121, along the Galveston Seawall from 10th Street to 61st Street.

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) 463-5223, email Bill.O'Hara@glo.state.tx.us, or fax (512) 463-5098.

TRD-200900770

Larry L. Laine

Chief Clerk, Deputy Land Commissioner

General Land Office

Filed: February 23, 2009

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TEXAS GENERAL LAND OFFICE

Art. 33.136, Natural Resources Code

Co. GALVESTON, Sketch No. 55

File Date 06/10/10 by K. Schreiber