

GULF OF MEXICO

- NOTES: PROJECT AREA 1 - GALVESTON ISLAND STATE PARK
- EROSION RESPONSE WORK: CEPPA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS. US FEET ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 0.99985482 AND MAPPING ANGLE IS 01d 58' 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88
- REFERENCE MONUMENT "HGCSO 62"
 N: 13,645,727.04
 E: 3,264,124.31
 ELEV: 6.50' NAVD88
- REFERENCE MONUMENT "H 1186 1964"
 N: 13,652,031.54
 E: 3,271,254.86
 ELEV: 5.59' NAVD88
- REFERENCE MONUMENT "PAM 26 ARP"
 N: 13,646,502.95
 E: 3,263,870.16
 ELEV: 15.18' NAVD88
- ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE RB.
 - MEAN HIGH WATER (MHW) OF 0.95' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "CARANCAHUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
- STATE/PRIVATE OWNERSHIP ALONG GALVESTON STATE PARK (GCPR VOL 2119 PG 392) WAS HELD AT MHHW LINE SHOWN ON GALVESTON COUNTY, SKETCH FILE 46, COUNTER #5981, FILED FEBRUARY 28, 2000.
- TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
 - UPDRAISED TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
 - REFERENCE ACCOMPANYING REPORT DATED OCT. 2014 FOR ADDITIONAL INFORMATION.
 - BACKGROUND IMAGE: NAIP 2012, FOR REFERENCE ONLY.

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

NO FILL OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND NO RETAINING WALLS OR STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ALONG THE SURVEYED LITTORAL BOUNDARY EXCEPT WHERE NOTED.

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
 SURVEY PERSONNEL:
 JAMES M. NAISMITH
 J.Z. GIESSEL

JAMES M. NAISMITH
 LICENSED STATE LAND SURVEYOR

NO.	DATE	REVISION

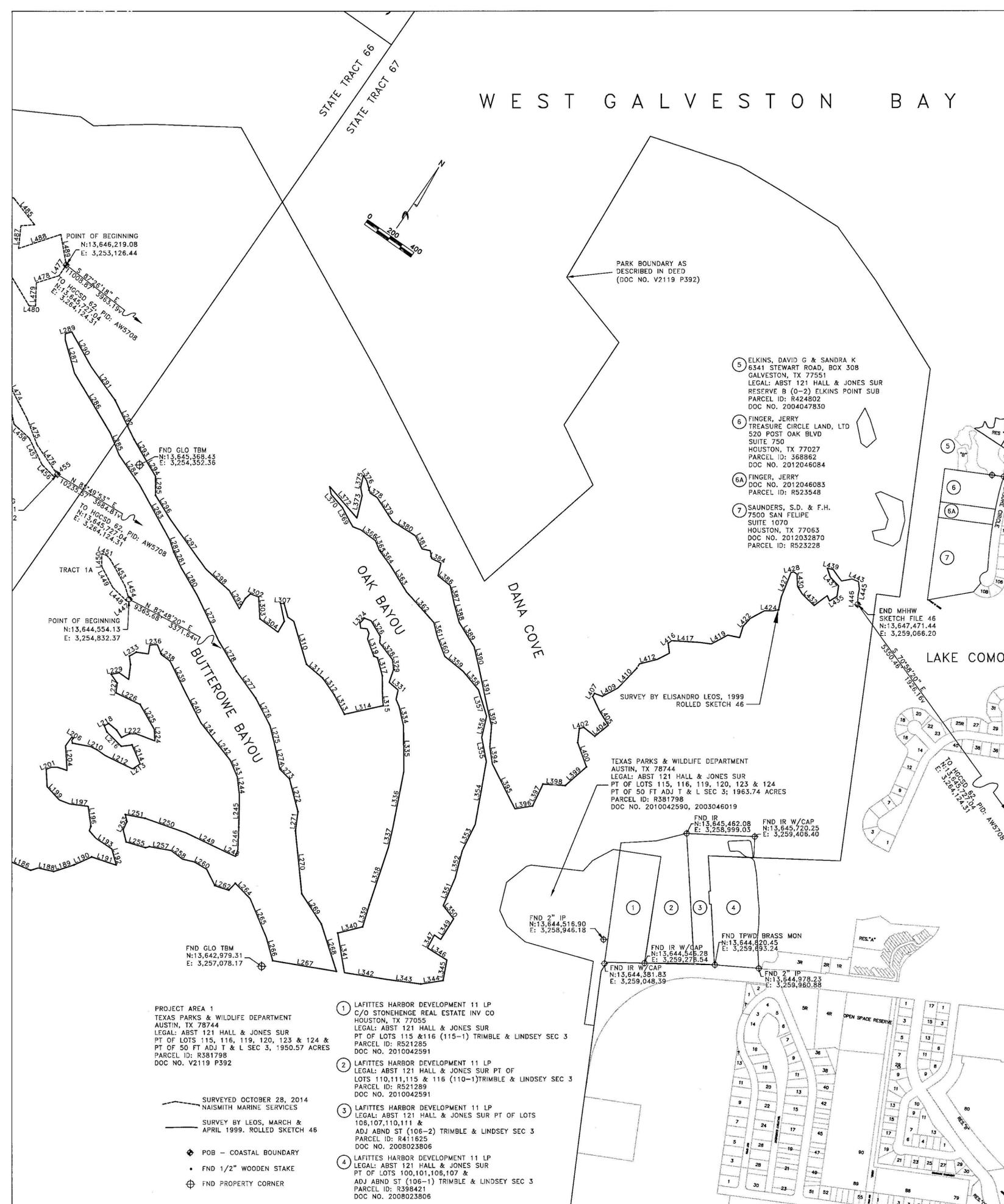
COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS.

SCALE: 1" = 400'
 DWN. BY: JZG

PLAN SHEET 1 OF 9
 DATE: OCT 2014

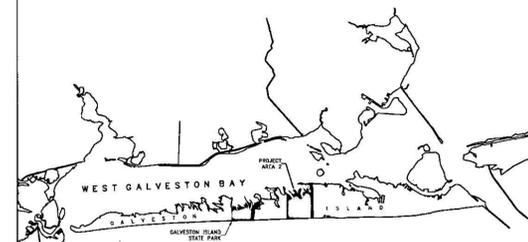
LINE	BEARING	DISTANCE	VARAS
L1	N 38°53'14" E	6.40'	2.30v
L2	N 52°25'25" E	40.95'	14.74v
L3	N 01°38'48" W	117.94'	42.46v
L4	N 82°37'53" E	69.40'	24.98v
L5	S 78°47'18" E	62.61'	22.54v
L6	S 53°41'08" E	94.25'	33.93v
L7	N 83°51'56" E	72.14'	25.91v
L8	N 63°26'46" E	80.04'	28.81v
L9	N 06°25'31" W	61.86'	22.27v
L10	N 29°02'12" W	47.96'	17.27v
L11	N 52°48'40" W	73.94'	26.62v
L12	N 15°14'01" W	63.34'	22.80v
L13	N 65°11'00" E	138.74'	49.95v
L14	N 13°14'45" W	96.32'	34.67v
L15	N 78°16'06" W	125.44'	45.16v
L16	N 58°58'50" W	44.40'	15.99v
L17	N 23°54'56" W	260.71'	93.85v
L18	N 25°47'39" E	139.83'	50.34v
L19	N 76°02'28" E	92.08'	33.15v
L20	S 73°56'45" E	99.25'	35.73v
L21	N 86°59'21" E	109.79'	39.52v
L22	N 12°46'51" W	189.94'	68.38v
L23	N 84°25'01" E	60.69'	21.85v
L24	S 59°59'14" E	53.95'	19.42v
L25	S 19°41'29" E	48.96'	17.63v
L26	S 20°06'41" W	107.47'	38.69v
L27	S 54°59'10" E	88.71'	31.93v
L28	N 67°49'54" E	151.07'	54.39v
L29	N 03°51'39" W	63.95'	23.02v
L30	N 52°08'48" E	59.99'	21.60v
L31	N 78°46'48" E	92.80'	33.41v
L32	S 81°13'18" E	102.51'	36.90v
L33	N 52°25'13" E	122.21'	44.00v
L34	N 03°33'08" E	89.40'	32.18v
L35	N 35°32'40" W	196.62'	70.76v
L36	N 46°58'17" W	51.58'	18.57v
L37	N 33°29'56" W	59.78'	21.52v
L38	N 33°04'57" E	19.27'	6.94v
L39	S 84°31'38" E	62.52'	22.51v
L40	S 68°28'56" E	46.79'	16.85v
L41	S 47°22'29" E	72.15'	25.97v
L42	S 32°54'15" E	183.70'	66.13v
L43	S 79°21'08" E	118.49'	42.66v
L44	S 69°10'21" E	79.02'	28.45v
L45	S 46°06'53" E	93.48'	33.65v
L46	S 63°50'28" E	130.00'	46.80v
L47	S 54°15'56" E	92.74'	33.99v
L48	S 49°06'30" E	251.86'	90.67v
L49	S 49°18'39" E	463.12'	166.72v
L50	S 38°09'47" E	89.42'	32.19v
L51	S 78°17'43" E	152.35'	54.85v
L52	N 61°15'20" E	89.54'	32.23v
L53	N 27°14'17" E	165.28'	59.50v
L54	N 23°28'36" E	125.88'	45.32v
L55	N 66°07'34" W	76.92'	27.69v
L56	N 48°03'55" W	138.76'	49.95v
L57	S 61°56'04" W	90.45'	32.56v
L58	N 60°59'16" W	91.15'	32.81v
L59	N 51°24'31" W	138.23'	49.76v
L60	N 41°01'45" W	235.80'	85.30v
L61	N 73°20'35" E	68.68'	24.01v
L62	N 03°24'09" W	33.75'	12.15v
L63	N 69°53'16" W	39.30'	14.15v
L64	S 54°17'52" W	42.29'	15.23v
L65	N 62°26'38" W	56.85'	20.47v
L66	N 32°45'08" W	131.36'	47.29v
L67	N 18°19'17" W	86.02'	30.97v
L68	N 39°14'35" E	31.26'	11.25v
L69	N 70°12'14" E	136.44'	48.54v
L70	N 88°31'22" W	120.85'	43.51v
L71	N 77°38'04" W	69.68'	25.09v
L72	N 34°05'06" W	58.74'	21.15v
L73	S 75°17'59" W	94.52'	34.03v
L74	S 00°53'37" W	101.94'	36.70v
L75	N 66°02'16" W	23.73'	8.54v
L76	N 32°30'13" W	104.82'	37.73v
L77	N 61°55'38" W	113.30'	40.79v
L78	N 67°18'21" W	185.59'	66.81v
L79	S 89°23'47" W	60.45'	21.76v
L80	N 59°14'09" W	96.17'	34.62v
L81	N 77°11'49" W	143.17'	51.54v
L82	N 72°00'15" W	149.43'	53.79v
L83	N 88°25'48" W	94.61'	34.06v
L84	N 72°27'13" W	167.09'	60.15v
L85	N 85°33'46" W	82.45'	29.68v
L86	N 49°46'22" W	134.81'	48.55v
L87	N 89°02'26" W	189.53'	68.24v
L88	N 79°10'09" W	67.79'	24.40v
L89	N 61°05'08" W	51.93'	18.70v
L90	N 56°06'43" W	72.88'	26.24v
L91	N 64°26'35" W	113.97'	41.03v
L92	N 28°36'38" E	50.98'	18.35v
L93	N 56°26'41" E	119.68'	43.09v
L94	S 43°53'24" E	67.53'	24.31v
L95	S 01°21'46" W	65.10'	23.44v
L96	S 49°48'31" E	173.47'	62.45v
L97	N 83°32'54" E	145.88'	52.51v
L98	N 00°09'49" E	59.46'	21.41v
L99	N 64°43'52" W	69.96'	25.19v
L100	N 24°18'16" W	138.34'	49.80v
L101	N 44°23'07" E	18.61'	6.70v
L102	S 43°16'15" E	166.06'	59.78v
L103	S 59°46'02" E	135.38'	48.74v
L104	S 64°47'41" E	293.36'	105.61v
L105	N 80°53'58" E	335.57'	120.84v
L106	S 85°25'30" E	145.23'	52.28v
L107	S 50°21'00" E	154.76'	55.71v
L108	S 23°21'33" E	144.13'	51.89v
L109	S 66°07'25" E	205.40'	73.94v
L110	N 54°51'14" E	65.56'	23.60v
L111	N 80°26'49" E	97.70'	35.17v
L112	N 75°35'57" E	241.05'	86.78v
L113	N 43°15'52" E	125.55'	45.20v
L114	N 80°29'48" E	243.87'	87.79v
L115	N 28°28'05" W	132.51'	47.53v
L116	N 37°33'37" E	23.71'	8.53v
L117	S 66°26'20" E	266.26'	95.86v
L118	S 64°10'31" E	392.79'	141.40v
L119	N 77°53'05" E	88.52'	31.87v
L120	S 26°53'06" E	132.67'	47.76v
L121	N 20°42'50" E	141.31'	50.87v
L122	S 86°20'19" E	119.08'	42.87v
L123	S 76°28'14" E	249.22'	89.72v
L124	S 40°48'06" E	113.02'	40.69v
L125	S 15°04'49" E	22.24'	8.01v
L126	N 80°10'02" E	72.50'	26.10v
L127	S 09°34'17" E	128.92'	46.41v
L128	S 06°50'06" E	198.16'	71.34v
L129	N 67°08'31" E	355.23'	127.88v
L130	N 45°22'25" E	244.67'	88.08v
L131	N 48°03'15" E	131.53'	47.35v
L132	N 34°48'13" W	81.91'	29.51v
L133	S 87°45'22" W	153.06'	55.10v
L134	S 76°53'13" W	119.65'	43.08v
L135	N 75°46'36" W	85.57'	30.80v
L136	N 32°33'17" W	71.22'	25.64v
L137	S 81°00'28" W	66.07'	23.79v
L138	N 04°58'06" E	30.25'	10.89v
L139	N 42°18'20" W	29.18'	10.50v
L140	S 46°32'29" W	92.13'	33.17v
L141	N 22°10'21" W	98.95'	35.62v
L142	N 58°13'32" W	213.43'	76.84v
L143	S 88°06'11" W	118.75'	42.75v
L144	N 82°04'57" W	190.13'	68.45v
L145	N 78°33'07" W	150.02'	54.01v
L146	N 63°23'26" W	342.40'	123.27v
L147	N 71°21'48" W	156.33'	56.28v
L148	N 64°46'35" W	86.64'	31.19v
L149	N 89°54'39" W	129.51'	46.56v
L150	S 67°58'14" W	213.49'	76.86v
L151	N 87°17'31" W	104.04'	37.45v
L152	N 52°35'10" W	61.41'	22.11v
L153	N 27°25'49" W	33.45'	12.04v
L154	N 76°17'44" W	215.40'	77.54v
L155	N 57°21'42" W	136.22'	49.04v
L156	N 75°47'58" W	174.90'	62.96v
L157	N 30°16'15" E	80.69'	29.05v
L158	N 78°23'11" E	110.62'	39.82v
L159	N 79°50'21" E	187.65'	68.35v
L160	N 55°22'30" E	78.99'	28.44v
L161	S 81°55'01" E	216.46'	77.93v
L162	S 56°37'28" E	100.50'	36.18v
L163	N 85°40'53" E	75.05'	27.02v
L164	S 68°25'26" E	85.81'	30.89v
L165	S 87°01'06" E	215.14'	77.45v
L166	N 60°14'46" E	122.05'	43.94v
L167	S 78°19'47" E	120.51'	43.38v
L168	N 70°43'51" E	152.00'	54.72v
L169	S 54°30'07" E	89.35'	32.17v
L170	S 05°27'10" W	81.58'	29.37v
L171	S 17°31'38" E	114.19'	41.11v
L172	S 82°25'23" E	72.82'	26.22v
L173	N 16°21'28" W	124.25'	44.73v
L174	N 32°27'18" E	112.32'	40.44v
L175	N 52°11'17" E	42.50'	15.30v
L176	S 71°43'51" E	109.99'	39.59v
L177	N 21°12'11" E	90.32'	32.61v
L178	S 89°29'03" E	166.07'	59.78v
L179	N 28°05'56" E	31.42'	11.31v
L180	N 78°56'29" E	81.88'	29.48v
L181	N 36°32'22" W	177.31'	63.83v
L182	N 73°11'31" E	117.24'	42.21v
L183	N 77°17'31" E	126.60'	45.58v
L184	N 17°39'55" E	96.90'	34.88v
L185	S 83°15'23" E	52.23'	18.83v
L186	N 78°24'18" E	137.48'	48.70v
L187	N 37°28'50" E	56.25'	20.25v
L188	N 68°03'06" E	111.88'	40.28v
L189	N 36°58'59" E	150.48'	54.17v
L190	N 30°36'48" E	136.32'	49.08v
L191	N 73°26'52" E	183.23'	65.96v
L192	N 50°29'33" W	118.69'	42.73v
L193	S 88°35'45" W	136.54'	49.16v
L194	N 75°47'55" W	69.82'	25.14v
L195	N 13°23'55" W	32.18'	11.58v
L196	N 42°51'11" W	143.91'	51.81v
L197	S 62°15'02" W	130.50'	46.98v
L198	S 76°08'12" W	78.03'	28.09v
L199	N 77°47'05" W	128.17'	46.14v
L200	N 38°13'55" W	121.21'	43.64v
L201	N 33°29'23" W	41.63'	14.99v
L202	N 57°19'27" E	42.84'	15.42v
L203	N 72°49'55" E	68.88'	24.80v
L204	N 38°42'55" W	172.23'	62.02v
L205	N 00°21'58" E	74.65'	26.87v
L206	N 86°33'53" E	14.01'	5.04v
L207	S 00°34'05" W	19.64'	7.07v
L208	S 50°57'35" E	19.77'	7.12v
L209	N 65°23'00" E	129.20'	46.51v
L210	N 81°04'46" E	50.91'	18.33v
L211	S 89°35'09" E	68.16'	24.54v
L212	N 80°51'13" E	217.64'	78.35v
L213	N 21°12'41" E		

WEST GALVESTON BAY



PROJECT AREA 1 - TRACT 1: GALVESTON ISLAND STATE PARK (CONT)

L250	S 74°29'29" W	308.79'	111.16v
L251	S 66°00'20" W	141.72'	51.02v
L252	S 46°47'31" E	51.89'	18.68v
L253	S 09°39'03" E	62.21'	22.40v
L254	S 49°11'24" E	88.74'	31.95v
L255	N 71°37'31" E	142.69'	51.37v
L256	N 38°23'28" E	28.24'	10.24v
L257	N 65°00'05" E	155.47'	55.97v
L258	S 87°52'51" E	101.19'	36.43v
L259	N 68°10'54" E	86.10'	31.00v
L260	N 68°08'07" E	100.09'	36.03v
L261	S 62°02'11" E	129.94'	46.78v
L262	N 72°55'48" E	102.71'	36.97v
L263	N 08°50'38" E	66.99'	24.12v
L264	S 79°15'06" E	148.94'	53.62v
L265	S 37°32'02" E	296.48'	106.35v
L266	S 50°27'41" E	159.82'	61.13v
L267	N 64°31'16" E	454.95'	163.78v
L268	N 52°44'20" W	350.41'	126.15v
L269	N 68°12'17" W	252.52'	90.91v
L270	N 40°45'43" W	445.09'	160.23v
L271	N 27°36'27" W	135.03'	48.61v
L272	N 49°21'17" W	240.18'	86.46v
L273	N 80°14'49" W	95.57'	34.40v
L274	N 48°42'09" W	160.72'	57.89v
L275	N 49°03'45" W	154.51'	55.82v
L276	N 62°37'25" W	216.45'	77.92v
L277	N 70°39'38" W	232.47'	83.69v
L278	N 65°27'06" W	253.31'	91.19v
L279	N 60°24'22" W	355.01'	127.80v
L280	N 65°09'21" W	218.16'	78.54v
L281	N 60°22'46" W	120.96'	43.55v
L282	N 53°16'02" W	90.35'	32.53v
L283	N 53°53'14" W	437.78'	157.80v
L284	N 59°41'00" W	255.50'	91.98v
L285	N 57°07'06" W	164.51'	59.22v
L286	N 66°01'39" W	489.82'	176.34v
L287	N 50°37'05" W	244.39'	87.98v
L288	N 34°21'49" W	41.54'	14.96v
L289	N 38°21'46" E	47.29'	17.03v
L290	S 64°16'22" E	278.99'	100.44v
L291	S 70°38'25" E	290.98'	104.75v
L292	S 50°54'13" E	305.80'	110.09v
L293	S 65°19'10" E	182.34'	65.84v
L294	S 66°30'04" E	113.94'	41.02v
L295	S 35°04'08" E	133.23'	47.96v
L296	S 66°47'40" E	196.77'	70.84v
L297	S 70°32'50" E	431.09'	155.19v
L298	S 82°33'59" E	225.69'	81.25v
L299	S 64°03'14" E	145.00'	52.20v
L300	N 04°52'07" W	82.84'	29.82v
L301	N 12°44'51" E	49.73'	17.91v
L302	N 77°00'58" E	62.12'	22.36v
L303	S 38°18'34" E	153.17'	55.14v
L304	S 89°05'50" E	157.62'	56.74v
L305	N 04°23'22" W	86.47'	31.13v
L306	N 46°40'52" W	128.23'	46.16v
L307	N 57°52'50" E	24.93'	8.97v
L308	S 50°26'29" E	97.96'	35.26v
L309	S 89°51'58" E	51.20'	18.43v
L310	S 51°29'20" E	313.27'	112.78v
L311	S 34°37'58" E	143.79'	53.39v
L312	S 89°57'31" E	143.28'	51.58v
L313	S 62°46'51" E	155.53'	55.99v
L314	N 42°27'39" E	280.41'	100.95v
L315	N 40°48'07" W	55.87'	20.11v
L316	N 35°24'58" W	154.91'	55.77v
L317	N 50°07'16" W	130.54'	47.00v
L318	S 79°56'16" W	28.50'	10.26v
L319	N 55°07'55" W	127.54'	45.35v
L320	N 21°17'24" W	41.89'	15.08v
L321	N 58°53'18" W	33.47'	12.05v
L322	S 60°21'57" W	45.73'	16.46v
L323	N 42°36'57" W	35.38'	12.74v
L324	N 06°52'07" E	46.78'	16.84v
L325	N 75°51'13" E	50.10'	18.04v
L326	S 66°08'01" E	126.83'	45.66v
L327	S 29°49'27" E	45.49'	16.38v
L328	S 72°18'24" E	149.11'	53.09v
L329	S 41°17'21" E	70.50'	25.38v
L330	S 15°50'44" E	94.58'	34.05v
L331	S 84°34'53" E	82.93'	29.85v
L332	S 22°41'32" E	67.48'	24.29v
L333	S 58°28'55" E	51.90'	18.69v
L334	S 47°59'07" E	143.27'	51.58v
L335	S 35°23'53" E	318.14'	114.53v
L336	S 24°02'20" E	399.51'	143.82v
L337	S 22°08'49" E	145.84'	52.84v
L338	S 16°34'23" E	425.85'	153.31v
L339	S 18°00'31" E	161.40'	58.10v
L340	S 40°58'54" W	180.93'	65.13v
L341	S 44°35'20" E	283.16'	101.94v
L342	N 63°59'20" E	300.05'	108.02v
L343	N 62°49'15" E	246.11'	88.60v
L344	N 45°56'47" E	157.78'	56.80v
L345	N 24°22'01" W	146.64'	52.79v
L346	S 87°10'08" W	162.02'	58.33v
L347	N 06°15'21" W	102.93'	37.05v
L348	S 89°25'01" E	54.01'	19.44v
L349	N 02°49'36" W	171.25'	61.65v
L350	N 73°32'12" W	117.93'	42.46v
L351	N 11°38'57" W	210.61'	75.82v
L352	N 20°21'50" W	199.65'	71.88v
L353	N 08°42'19" W	205.07'	73.83v
L354	N 24°57'41" W	450.65'	162.23v
L355	N 46°18'14" W	171.88'	61.80v
L356	N 21°51'57" W	152.51'	54.90v
L357	N 52°18'54" W	195.20'	70.27v
L358	N 74°49'49" W	169.68'	61.08v
L359	N 85°53'52" W	165.33'	59.52v
L360	N 55°46'41" W	141.04'	50.77v
L361	N 49°20'29" W	109.27'	39.34v
L362	N 76°52'31" W	288.31'	103.79v
L363	N 66°18'15" W	213.03'	76.59v
L364	N 71°09'00" W	138.55'	49.88v
L365	N 56°07'49" W	71.55'	25.76v
L366	N 88°48'15" W	131.11'	47.20v
L367	S 75°31'20" W	57.67'	20.76v
L368	N 65°27'44" W	40.20'	14.47v
L369	N 63°10'28" W	114.18'	41.11v
L370	N 75°50'02" W	119.82'	43.14v
L371	N 46°40'50" W	57.52'	20.55v
L372	S 76°03'11" E	293.60'	105.70v
L373	N 21°50'48" W	160.62'	57.82v
L374	N 45°01'10" W	58.63'	21.11v
L375	N 21°48'36" W	86.78'	31.24v
L376	S 67°11'48" E	43.29'	15.59v
L377	S 50°56'57" E	90.40'	32.54v
L378	N 87°33'14" E	57.48'	20.69v
L379	S 68°07'57" E	197.93'	71.26v
L380	N 87°21'58" E	193.56'	69.68v
L381	S 61°48'59" E	102.86'	37.03v
L382	N 68°47'22" E	58.20'	20.95v
L383	S 45°11'42" E	56.11'	20.20v
L384	N 80°55'49" E	73.28'	26.38v
L385	S 21°45'12" E	92.22'	32.20v
L386	S 86°20'33" E	109.28'	39.34v
L387	S 47°17'09" E	134.80'	48.53v
L388	S 50°00'36" E	133.34'	48.00v
L389	S 67°00'18" E	198.57'	71.49v
L390	S 47°53'26" E	133.55'	55.28v
L391	N 46°58'50" E	295.35'	106.35v
L392	S 48°04'27" E	122.56'	44.12v
L393	S 30°18'04" E	149.87'	53.95v
L394	S 44°00'19" E	118.49'	42.66v
L395	S 61°44'45" E	353.77'	127.36v
L396	N 45°30'32" E	126.27'	45.46v
L397	N 09°51'45" W	170.89'	61.52v
L398	N 58°42'12" E	158.07'	56.90v
L399	N 14°05'04" E	197.49'	71.10v
L400	N 54°55'58" W	180.78'	65.08v
L401	N 28°22'33" W	99.25'	35.75v
L402	N 39°29'03" E	32.03'	11.53v
L403	S 86°45'17" E	99.91'	35.97v
L404	N 16°08'35" E	122.70'	44.17v
L405	N 66°53'34" W	119.43'	43.00v
L406	N 60°21'23" W	111.26'	40.05v
L407	N 04°40'00" W	25.32'	9.11v
L408	N 74°39'01" E	58.98'	21.23v
L409	N 27°07'01" E	123.00'	44.28v
L410	N 09°11'31" E	195.63'	70.44v
L411	N 05°05'53" W	33.58'	12.09v
L412	N 40°37'29" E	131.21'	47.24v
L413	N 28°01'46" E	94.44'	34.00v
L414	N 42°09'39" W	40.67'	14.64v
L415	N 41°22'32" W	30.14'	10.85v
L416	N 19°16'32" E	30.39'	10.94v
L417	N 58°27'25" E	191.56'	68.96v
L418	N 62°28'05" E	89.34'	32.23v
L419	N 27°04'23" E	131.38'	47.30v
L420	N 68°39'21" E	85.78'	30.87v
L421	N 18°05'54" W	82.34'	29.64v
L422	N 07°02'47" E	72.48'	26.09v
L423	N 26°57'30" E	116.39'	41.90v
L424	N 56°20'50" E	57.37'	20.65v
L425	N 44°00'00" E	43.67'	15.72v
L426	N 23°03'13" W	92.78'	33.40v
L427	N 13°17'47" W	184.17'	66.30v
L428	N 42°57'09" E	20.71'	7.45v
L429	S 89°17'51" E	26.95'	9.70v
L430	S 38°17'01" E	87.38'	31.46v
L431	S 66°46'25" E	63.31'	22.79v
L432	S 80°24'03" E	114.97'	41.59v
L433	N 18°06'14" E	115.99'	41.78v
L434	S 57°58'32" E	40.92'	14.73v
L435	N 23°18'24" E	62.56'	22.52v
L436	N 28°47'25" W	75.52'	27.19v
L437	N 78°11'45" W	83.99'	30.24v
L438	N 53°37'32" W	67.69'	24.37v
L439	N 68°49'50" E	43.61'	15.70v
L440	S 69°29'24" E	51.44'	18.52v
L441	S 71°58'21" E	47.94'	17.28v
L442	N 44°21'32" E	77.37'	27.85v
L443	N 78°18'13" E	48.78'	17.56v
L444	S 40°49'51" E	53.95'	19.42v
L445	S 22°23'57" E	43.71'	15.74v
L446	S 32°38'21" E	84.41'	23.19v



GULF OF MEXICO

- NOTES: PROJECT AREA 1 - GALVESTON ISLAND STATE PARK
- EROSION RESPONSE WORK: CEPPA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 0.999865482 AND MAPPING ANGLE IS 01d 58' 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88
- REFERENCE MONUMENT "HGSD 62"
N: 13,645,727.04
E: 3,264,124.31
ELEV: 6.30' NAVD88
- REFERENCE MONUMENT "H 1186 1964"
N: 13,652,031.54
E: 3,271,254.86
ELEV: 5.59' NAVD88
- REFERENCE MONUMENT "PAM 26 ARP"
N: 13,646,502.95
E: 3,263,870.16
ELEV: 15.18' NAVD88
- ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE RB.
 - MEAN HIGH WATER (MHW) OF 0.35' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "GARANCARUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
- STATE/PRIVATE OWNERSHIP ALONG GALVESTON STATE PARK (GCPR VOL 2119 PG 392) WAS HELD AT MHW LINE SHOWN ON GALVESTON COUNTY, SKETCH FILE 46, COUNTER #5981, FILED FEBRUARY 28, 2000.
 - TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
 - UPRAID TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
 - REFERENCE ACCOMPANYING REPORT DATED OCT. 2014 FOR ADDITIONAL INFORMATION.
 - BACKGROUND IMAGE: NAIP 2012. FOR REFERENCE ONLY.

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79
File Date October 28, 2014 by R. Kurbay

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

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

NO FILL OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND NO RETAINING WALLS OR STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ALONG THE SURVEYED LITTORAL BOUNDARY EXCEPT WHERE NOTED.

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
SURVEY PERSONNEL:

JAMES M. NAISMITH
J.Z. GIESSEL

JAMES M. NAISMITH
LICENSED STATE LAND SURVEYOR

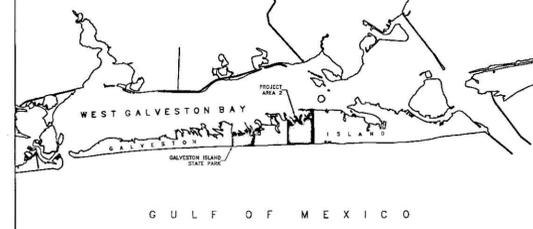
Naismith Marine Services
360 Floor Surveying
3765 South Alameda, Suite 305
Corpus Christi, Texas 78411
WWW.NAISMITHMARINE.COM
(361) 945-0248

NO.	DATE	REVISION

SCALE: 1" = 400'
DWN. BY: JZG

COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS

PLAN SHEET 2 OF 9
DATE: OCT 2014



- MHW CONTOUR SURVEYED SEP/OCT 2014
- SURVEY BY MERTEN, 2006
- SURVEY BY RUBALCABA, 2005
- SURVEY BY RUBALCABA, 2006
- POB - COASTAL BOUNDARY
- FND BOUNDARY CORNER
- TRIMBLE AND LINDSEY SURVEY - 1837

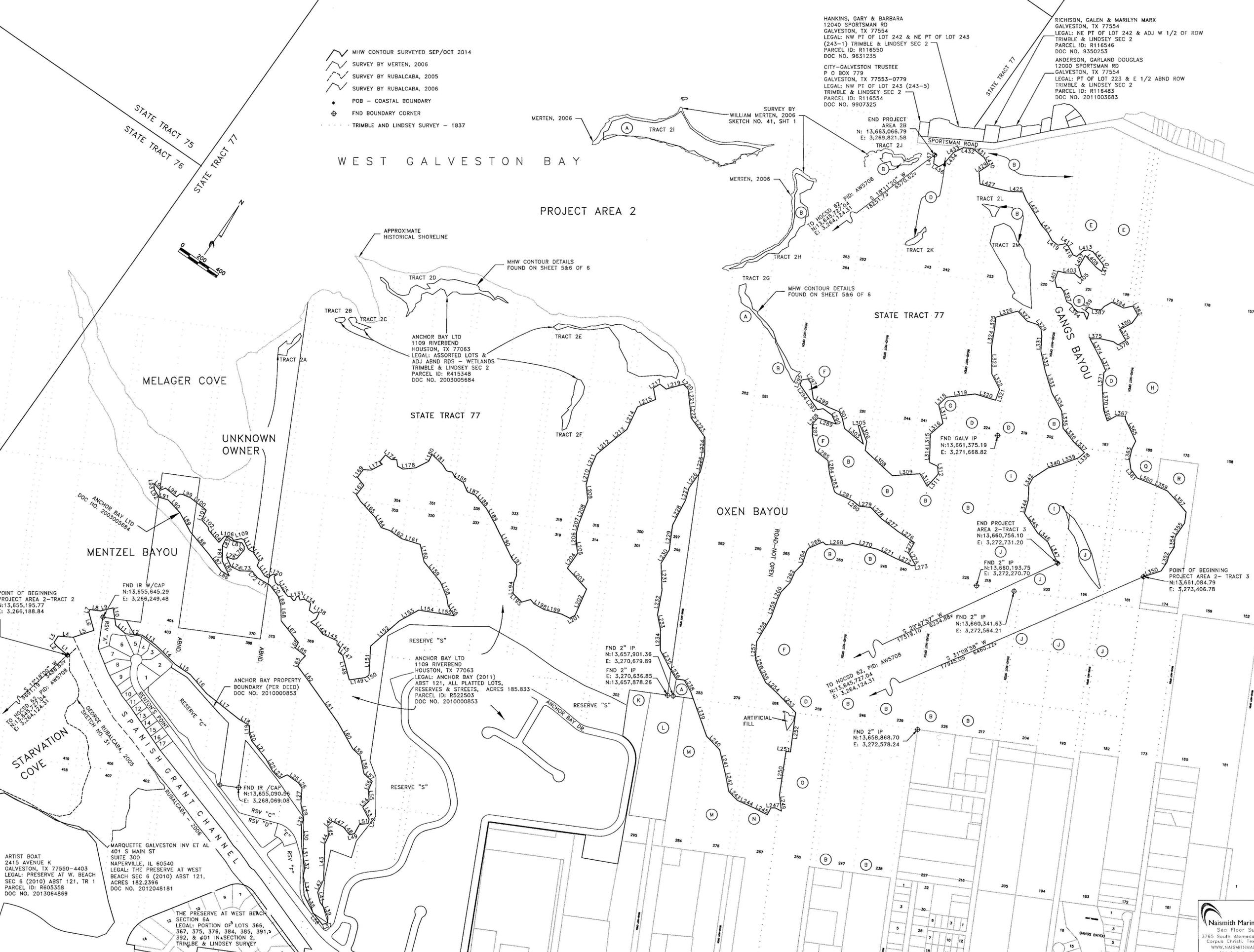
HANKINS, GARY & BARBARA
12040 SPORTSMAN RD
GALVESTON, TX 77554
LEGAL: NW PT OF LOT 242 & NE PT OF LOT 243
(243-1) TRIMBLE & LINDSEY SEC 2
PARCEL ID: R116550
DOC NO. 9631235

CITY-GALVESTON TRUSTEE
P O BOX 779
GALVESTON, TX 77555-0779
LEGAL: NW PT OF LOT 243 (243-5)
TRIMBLE & LINDSEY SEC 2
PARCEL ID: R116554
DOC NO. 9907325

RICHISON, GALEN & MARILYN MARX
GALVESTON, TX 77554
LEGAL: NE PT OF LOT 242 & ADJ W 1/2 OF ROW
TRIMBLE & LINDSEY SEC 2
PARCEL ID: R116546
DOC NO. 9350253

ANDERSON, GARLAND DOUGLAS
12000 SPORTSMAN RD
GALVESTON, TX 77554
LEGAL: PT OF LOT 223 & E 1/2 ABND ROW
TRIMBLE & LINDSEY SEC 2
PARCEL ID: R116483
DOC NO. 2011003683

WEST GALVESTON BAY
PROJECT AREA 2



- NOTES: PROJECT AREA 2 - ANCHOR BAY SUBDIVISION TO GANGS BAYOU
- EROSION RESPONSE WORK: CEPA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 0.999865482 AND MAPPING ANGLE IS 01d 58' 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88
 - ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE R8.
 - MEAN HIGH WATER (MHW) OF 0.95' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "CARANCAHUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
 - TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
 - UPLAND TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
 - REFERENCE ACCOMPANYING REPORT DATED OCT. 2014 FOR ADDITIONAL INFORMATION.
 - BACKGROUND IMAGE: NAIP 2012, FOR REFERENCE ONLY.

TEXAS GENERAL LAND OFFICE
Art 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79
File Date 06/16/2014 By R. Kertner

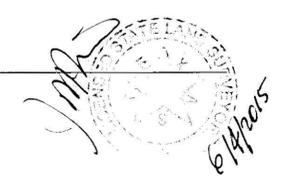
I, JAMES M. NAISMITH, HEREBY STATE THAT THIS DRAWING REPRESENTS A SURVEY THAT IS CORRECT, IN ACCORDANCE WITH SECTION 21.042 TEXAS NATURAL RESOURCES CODE, WAS MADE ACCORDING TO LAW; WAS MADE IN THE FIELD UNDER MY DIRECT CONTROL AND SUPERVISION; WAS MADE UTILIZING METHODOLOGY APPROVED BY THE GLO; AND IS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

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NO FILL OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND NO RETAINING WALLS OR STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ALONG THE SURVEYED LITTORAL BOUNDARY EXCEPT WHERE NOTED.

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
SURVEY PERSONNEL: JAMES M. NAISMITH
J.Z. GIESSEL

JAMES M. NAISMITH
LICENSED STATE LAND SURVEYOR



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

NO.	DATE	REVISION

COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMAICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS.

SCALE: 1" = 400'
DWN. BY: JZG
PLAN SHEET 3 OF 9
DATE: OCT 2014

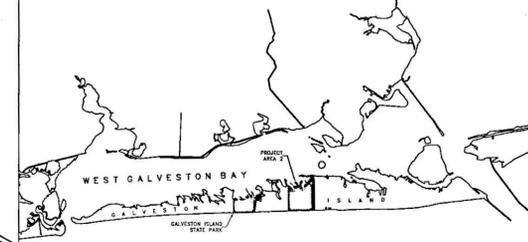
PROJECT AREA 2A

LINE	BEARING	DISTANCE	VARS
L1	N 84°13'41" W	113.65'	40.91V
L2	N 76°02'58" W	45.25'	16.29V
L3	N 03°39'04" W	68.14'	24.53V
L4	N 59°33'16" E	131.41'	47.31V
L5	N 36°19'44" E	188.23'	67.76V
L6	N 50°25'35" W	165.02'	59.41V
L7	N 15°18'19" W	25.87'	9.31V
L8	N 62°23'55" E	93.37'	33.61V
L9	N 40°59'54" E	111.89'	40.28V
L10	S 43°49'49" E	156.74'	56.43V
L11	S 83°55'53" E	111.43'	40.11V
L12	N 59°31'44" E	143.48'	51.65V
L13	S 88°01'43" E	143.90'	51.80V
L14	S 79°58'04" E	240.24'	86.49V
L15	N 89°46'03" E	160.27'	57.70V
L16	S 75°14'54" W	216.75'	78.03V
L17	S 86°08'52" E	356.50'	128.34V
L18	N 86°56'19" E	108.42'	39.03V
L19	S 33°49'08" E	69.82'	25.14V
L20	S 63°18'33" E	67.03'	24.13V
L21	S 72°34'19" E	206.04'	74.17V
L22	S 63°08'12" E	119.90'	43.17V
L23	S 79°15'51" E	87.07'	31.35V
L24	N 29°15'58" E	72.18'	25.99V
L25	S 88°52'40" E	119.38'	43.19V
L26	S 88°41'46" E	54.91'	19.77V
L27	S 31°10'09" E	138.52'	49.87V
L28	S 45°14'37" E	130.11'	46.84V
L29	S 17°19'27" E	62.45'	22.48V
L30	S 35°33'02" E	182.01'	65.52V
L31	S 42°46'34" E	127.37'	45.85V
L32	S 41°07'24" E	79.73'	28.70V
L33	S 24°13'02" E	73.51'	26.46V
L34	S 38°07'13" E	197.08'	69.55V
L35	S 81°48'03" E	177.98'	64.07V
L36	S 73°15'30" E	123.73'	44.54V
L37	N 37°58'33" E	46.30'	16.67V
L38	N 30°02'13" W	48.77'	17.56V
L39	N 58°25'35" W	105.56'	38.00V
L40	N 70°18'55" W	44.92'	16.17V
L41	N 48°34'38" W	89.87'	32.35V
L42	N 10°05'41" W	122.44'	44.08V
L43	N 30°31'11" W	119.75'	43.50V
L44	N 08°58'10" W	69.25'	24.93V
L45	N 37°55'34" W	93.10'	33.52V
L46	N 08°34'49" E	56.58'	20.36V
L47	N 83°19'21" E	108.53'	39.07V
L48	S 73°11'40" E	85.57'	30.80V
L49	N 41°49'03" E	41.89'	15.08V
L50	N 06°28'33" W	91.93'	33.09V
L51	N 49°03'26" E	74.99'	27.00V
L52	N 20°44'44" W	38.83'	13.99V
L53	N 62°49'30" W	118.08'	42.50V
L54	N 08°27'18" E	80.40'	28.95V
L55	N 39°47'33" W	90.65'	32.63V
L56	N 12°08'48" W	87.50'	31.50V
L57	N 82°19'27" W	96.21'	34.63V
L58	N 46°42'04" W	159.81'	57.53V
L59	N 81°02'29" W	89.65'	32.27V
L60	N 63°44'39" W	263.44'	94.84V
L61	N 69°42'48" W	330.04'	118.81V
L62	N 70°26'36" W	275.75'	99.27V
L63	N 07°43'03" W	51.55'	18.48V
L64	N 07°48'43" E	62.07'	22.34V
L65	N 86°52'34" W	110.10'	39.64V
L66	N 06°59'28" W	54.95'	19.78V
L67	N 72°49'09" W	242.77'	87.40V
L68	N 36°07'08" W	134.39'	48.38V
L69	N 50°28'50" W	83.73'	30.14V
L70	N 72°03'44" W	119.03'	42.85V
L71	S 86°05'39" W	126.11'	45.40V
L72	N 74°14'00" W	76.11'	27.40V
L73	S 55°59'49" W	103.53'	37.27V
L74	S 80°01'50" W	85.14'	30.85V
L75	N 59°51'34" W	93.22'	33.56V
L76	N 72°26'10" E	62.56'	22.82V
L77	N 44°15'10" E	29.28'	10.54V
L78	N 04°51'10" E	98.57'	35.49V
L79	N 32°42'23" W	29.35'	10.59V
L80	N 67°59'15" W	41.14'	14.81V
L81	S 65°58'49" W	83.50'	30.06V
L82	N 88°19'33" W	57.50'	20.70V
L83	S 08°21'57" E	82.07'	29.55V
L84	S 33°42'07" E	137.92'	49.65V
L85	S 60°03'27" E	142.11'	51.16V
L86	S 86°58'56" W	82.82'	29.81V
L87	N 70°42'27" W	178.94'	64.42V
L88	N 74°27'47" W	265.88'	92.12V
L89	N 63°04'08" W	188.55'	67.88V
L90	N 77°31'51" W	150.57'	54.21V
L91	S 71°01'16" W	79.42'	28.59V
L92	N 66°02'13" W	80.44'	28.96V
L93	N 40°48'31" W	53.92'	19.41V
L94	S 77°56'58" E	82.48'	29.69V
L95	N 32°25'31" E	49.28'	17.74V
L96	S 85°27'16" E	120.51'	43.38V
L97	N 10°02'42" E	39.38'	14.17V
L98	N 65°37'06" E	27.78'	10.00V
L99	N 78°18'21" E	69.12'	24.88V

L100	S 86°40'46" E	173.85'	62.59V
L101	S 12°11'12" E	95.11'	34.24V
L102	S 76°46'05" E	77.72'	27.98V
L103	S 49°28'45" E	34.01'	12.24V
L104	S 74°29'19" E	133.75'	48.15V
L105	N 07°58'32" E	75.26'	27.09V
L106	N 62°59'39" E	37.90'	13.57V
L107	N 74°36'58" E	26.05'	9.38V
L108	S 65°01'25" E	27.47'	9.89V
L109	N 41°52'00" E	68.94'	24.82V
L110	N 80°23'57" E	23.68'	8.53V
L111	S 60°51'38" E	94.84'	34.14V
L112	N 85°11'42" E	44.77'	16.12V
L113	S 69°09'22" E	95.52'	34.39V
L114	S 12°22'54" E	44.87'	16.15V
L115	S 76°54'44" E	43.45'	15.84V
L116	S 68°00'55" E	65.71'	23.66V
L117	N 82°40'04" E	41.68'	15.01V
L118	N 05°02'38" W	23.52'	8.47V
L119	N 28°06'45" E	32.53'	11.71V
L120	N 78°25'55" E	25.83'	9.23V
L121	S 33°26'43" W	20.58'	7.41V
L122	S 46°14'35" E	55.97'	20.15V
L123	S 77°38'39" E	33.18'	11.94V
L124	N 42°08'52" E	17.03'	6.13V
L125	S 83°47'55" E	60.18'	21.96V
L126	S 75°54'06" E	64.41'	23.19V
L127	N 53°48'16" E	19.80'	7.13V
L128	S 70°17'37" E	43.71'	15.74V
L129	N 47°52'02" E	14.50'	5.22V
L130	N 10°23'31" W	33.36'	12.01V
L131	N 45°26'41" E	19.77'	7.12V
L132	S 52°49'53" E	32.94'	11.86V
L133	S 24°13'02" E	38.79'	13.96V
L134	S 38°07'13" E	64.59'	23.24V
L135	S 23°50'07" E	62.56'	22.24V
L136	S 86°51'17" E	44.83'	16.14V
L137	N 35°41'21" E	37.97'	13.67V
L138	N 88°58'48" E	15.73'	5.66V
L139	S 09°34'12" E	61.20'	22.03V
L140	S 25°57'37" W	51.86'	18.67V
L141	S 88°35'12" E	68.11'	24.52V
L142	S 70°30'22" E	79.14'	28.49V
L143	N 33°11'57" E	139.19'	50.11V
L144	S 33°04'23" E	31.24'	11.28V
L145	S 82°55'21" E	39.93'	14.58V
L146	S 12°05'23" E	44.02'	15.85V
L147	S 86°41'56" E	47.93'	17.25V
L148	S 49°42'25" E	223.66'	80.52V
L149	N 46°09'08" E	140.30'	50.51V
L150	N 21°39'19" E	37.85'	13.63V
L151	N 31°53'08" W	255.99'	92.15V
L152	N 13°15'18" E	334.99'	120.27V
L153	N 25°32'28" E	190.28'	68.49V
L154	N 64°08'59" E	141.39'	50.90V
L155	N 64°03'46" E	169.67'	61.08V
L156	N 66°12'11" W	102.90'	37.04V
L157	N 43°53'32" W	73.95'	26.62V
L158	N 57°21'37" W	144.93'	52.18V
L159	N 73°38'35" W	227.26'	81.81V
L160	N 47°20'07" W	154.83'	55.74V
L161	S 72°17'33" W	166.48'	59.93V
L162	S 89°47'54" W	125.03'	45.01V
L163	S 74°30'45" W	79.95'	28.78V
L164	N 65°27'42" W	106.12'	38.20V
L165	N 77°15'40" W	184.53'	66.43V
L166	N 67°12'06" W	69.24'	24.93V
L167	N 03°19'34" E	104.68'	37.68V
L168	N 73°31'40" W	89.05'	32.06V
L169	N 01°32'24" E	84.88'	30.56V
L170	N 59°03'29" E	66.94'	24.10V
L171	N 26°59'28" E	111.01'	39.96V
L172	N 83°44'53" W	29.84'	10.74V
L173	N 04°18'27" E	79.52'	28.63V
L174	S 86°13'48" E	63.11'	22.72V
L175	N 57°57'33" E	47.27'	17.02V
L176	S 43°17'22" E	57.80'	20.81V
L177	N 83°18'15" E	51.46'	18.55V
L178	N 49°40'12" E	110.14'	39.65V
L179	N 27°45'08" E	127.65'	45.96V
L180	N 10°05'59" W	66.02'	23.77V
L181	S 80°20'50" E	128.46'	46.26V
L182	S 67°55'19" E	65.37'	23.53V
L183	N 67°29'21" E	50.93'	18.34V
L184	S 59°59'32" E	49.37'	17.77V
L185	N 86°22'36" E	85.60'	30.82V
L186	S 58°00'13" E	88.74'	31.95V
L187	N 78°34'07" E	74.32'	26.76V
L188	N 74°13'58" E	153.34'	53.92V
L189	S 63°27'25" E	149.10'	53.68V
L190	S 60°43'29" E	337.85'	121.63V
L191	S 73°14'56" E	69.74'	25.11V
L192	S 32°10'17" E	97.45'	35.08V
L193	S 14°03'30" E	64.32'	23.15V
L194	S 32°03'31" E	92.71'	33.37V
L195	S 80°08'21" E	105.69'	38.05V
L196	N 38°41'25" E	79.05'	28.46V
L197	S 74°09'09" E	48.31'	17.59V
L198	N 85°19'22" E	100.69'	36.25V
L199	N 69°50'44" E	157.48'	56.69V

L200	N 81°43'34" E	78.52'	28.27V
L201	N 25°31'39" E	51.57'	18.57V
L202	N 11°36'38" W	249.55'	89.84V
L203	N 77°03'55" W	247.36'	89.05V
L204	N 00°47'47" W	159.87'	57.55V
L205	N 45°45'38" W	73.72'	26.54V
L206	N 34°27'04" W	100.88'	36.52V
L207	N 19°46'23" W	94.17'	33.90V
L208	N 13°44'31" W	209.51'	75.42V
L209	N 41°26'17" W	138.26'	49.77V
L210	N 20°24'26" W	153.23'	55.16V
L211	N 11°38'54" W	128.47'	46.25V
L212	N 14°47'56" E	196.31'	70.67V
L213	S 69°09'22" E	142.92'	51.45V
L214	N 09°56'46" W	217.37'	78.25V
L215	N 32°14'50" E	168.44'	60.84V
L216	N 45°30'36" W	100.47'	36.17V
L217	N 22°22'31" E	65.35'	23.53V
L218	S 86°08'38" E	70.18'	25.27V
L219	N 39°24'41" E	155.33'	55.92V
L220	S 79°37'21" E	57.18'	20.58V
L221	S 41°17'33" E	162.39'	58.46V
L222	S 40°41'50" E	90.14'	32.45V
L223	S 69°59'48" E	208.26'	74.97V
L224	S 33°38'05" E	157.40'	56.66V
L225	S 20°20'36" E	150.77'	54.28V
L226	S 00°02'39" E	169.42'	60.99V
L227	S 19°26'31" E	112.13'	40.37V
L228	S 07°39'03" E	243.74'	87.75V
L229	S 27°27'50" E	219.10'	78.88V
L230	S 03°37'35" E	136.45'	49.12V
L231	S 37°04'26" E	235.79'	84.89V
L232	S 24°46'16" E	215.89'	77.72V
L233	S 48°12'20" E	192.28'	67.62V
L234	S 34°21'23" E	183.03'	65.98V
L235	S 62°16'30" E	182.64'	65.75V
L236	S 66°14'54" E	106.78'	38.44V
L237	N 63°34'56" E	68.93'	24.82V
L238	S 64°33'44" W	115.36'	41.53V
L239	S 54°17'36" E	415.83'	149.70V
L240	S 25°57'37" W	163.07'	58.67V
L241	S 48°10'05" E	224.01'	80.64V
L242	S 45°48'15" E	150.52'	54.19V
L243	S 78°15'52" E	105.61'	38.02V
L244	N 80°05'30" E		

WEST GALVESTON BAY



GULF OF MEXICO

- NOTES: ARTIFICIAL FILL
- EROSION RESPONSE WORK: CEPRA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 0.999865482 AND MAPPING ANGLE IS 0'14" 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88

- REFERENCE MONUMENT "HGCS 62"
 N: 13,645,727.04
 E: 3,264,124.31
 ELEV: 6.30' NAVD88
- REFERENCE MONUMENT "H 1186 1964"
 N: 13,652,031.54
 E: 3,271,254.86
 ELEV: 5.59' NAVD88
- REFERENCE MONUMENT "PAM 26 ARP"
 N: 13,646,502.95
 E: 3,263,870.16
 ELEV: 15.18' NAVD88

- ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE R8.
- MEAN HIGH WATER (MHW) OF 0.95' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "CARANCAHUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
- STATE/PRIVATE OWNERSHIP ALONG GALVESTON STATE PARK (GSPR VOL 2119 PG 392) WAS HELD AT MHW LINE SHOWN ON TEXAS NATURAL RESOURCE CODE ARTICLE 33.136, GALVESTON COUNTY, SKETCH FILE 46, COUNTER #5981, FILED FEBRUARY 28, 2000.
- TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
- UPLAND TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
- REFERENCE ACCOMPANYING REPORT DATED OCT. 2014 FOR ADDITIONAL INFORMATION.
- BACKGROUND IMAGE: NAIP 2012, FOR REFERENCE ONLY.
- TOE OF ARTIFICIAL FILL EVIDENCED USING 2005 & 2012 AERIAL PHOTOGRAPHY (PICTOMETRY)

TEXAS GENERAL LAND OFFICE
 An 33.136 Natural Resources Code
 Galveston, Sketch No. 79
 File Date 08/14/2015 by J. Gisessel

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

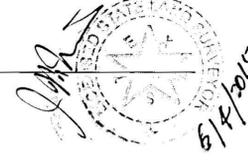
NOTICE: THIS SURVEY WAS PERFORMED IN ACCORDANCE WITH SECTION 33.136, NATURAL RESOURCES CODE, FOR THE PURPOSE OF EVIDENCING THE LOCATION OF THE SHORELINE IN THE AREA DEPICTED IN THIS SURVEY AS THAT SHORELINE EXISTED BEFORE COMMENCEMENT OF EROSION RESPONSE ACTIVITY, AS REQUIRED BY CHAPTER 33, NATURAL RESOURCES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

NO FILL OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND NO RETAINING WALLS OR STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ALONG THE SURVEYED LITTORAL BOUNDARY EXCEPT WHERE NOTED.

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
 SURVEY PERSONNEL:

JAMES M. NAISMITH
 J.Z. GISSEL

JAMES M. NAISMITH
 LICENSED STATE LAND SURVEYOR

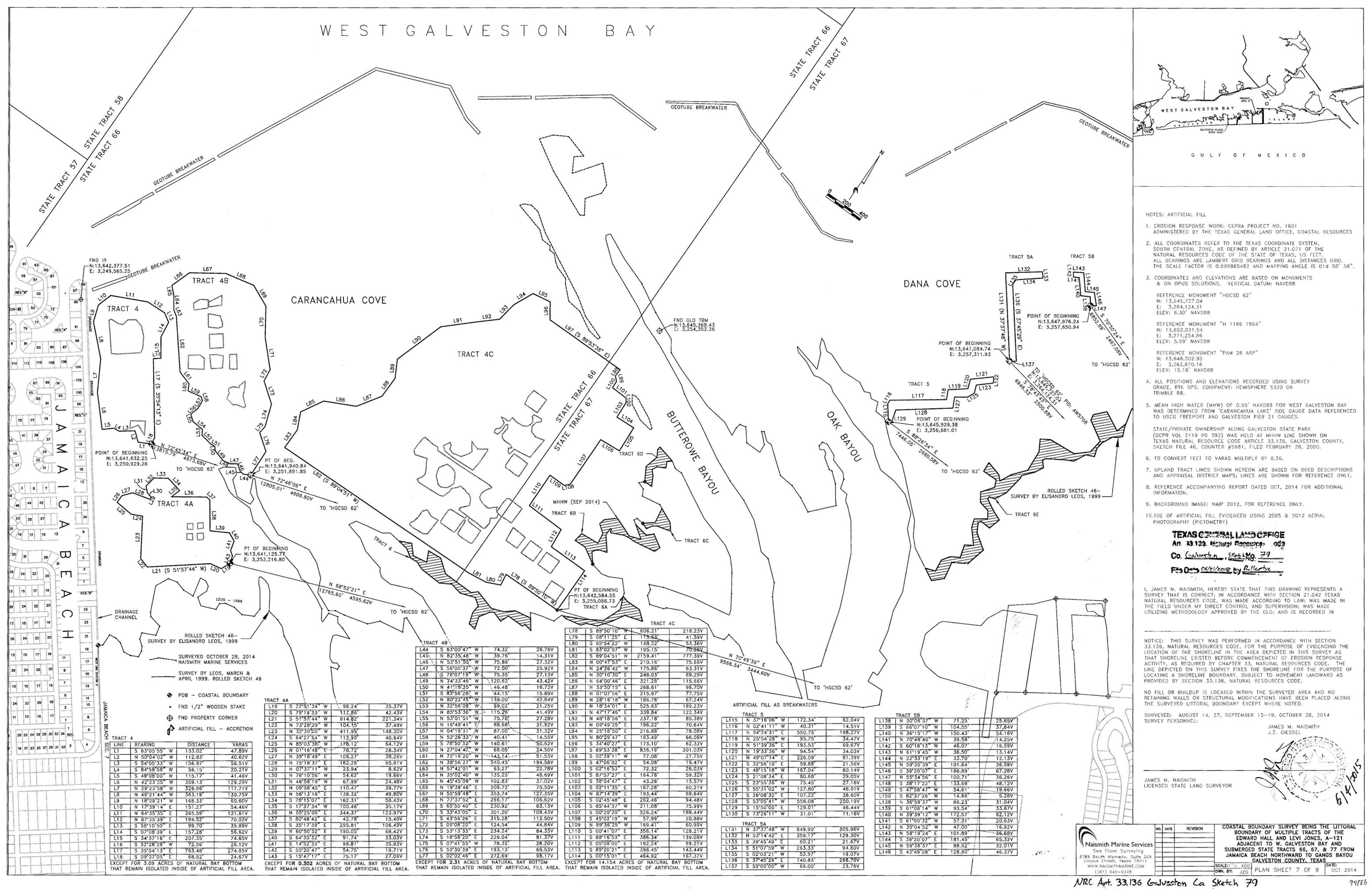


NO.	DATE	REVISION

COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMERICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS.

SCALE: 1" = 400'
 DWN. BY: JZG

PLAN SHEET 7 OF 9 DATE: OCT 2014



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 E: 3,249,565.25

POINT OF BEGINNING
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 E: 3,250,929.28

PT OF BEGINNING
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 E: 3,251,891.85

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 E: 3,254,352.36

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 E: 3,257,650.94

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CARANCAHUA COVE

TRACT 4C

STATE TRACT 66
STATE TRACT 67

BUTTEROWE BAYOU

FND GLO TBM
N:13,645,368.43
E: 3,254,352.36

TRACT 6D
PT OF BEG.
N:13,644,092.64
E: 3,255,070.22

TRACT 6C
PT OF BEGINNING
N:13,643,751.88
E: 3,255,287.20

TRACT 6B
PT OF BEGINNING
N:13,643,147.16
E: 3,255,113.03

TRACT 6
POINT OF BEGINNING
N:13,642,372.72
E: 3,254,919.02

TRACT 6A
POINT OF BEGINNING
N:13,642,570.32
E: 3,255,162.58

SHORELINE ACCRETION

TRACT 6

L150	S 36°32'22" E	121.41'	43.71V
L151	N 78°36'29" W	81.88'	29.48V
L152	S 28°05'56" W	31.42'	11.31V
L153	N 89°29'03" W	166.07'	59.78V
L154	S 21°29'11" W	90.32'	32.51V
L155	N 71°45'51" W	109.99'	39.59V
L156	S 52°11'11" W	42.50'	15.30V
L157	S 32°27'18" W	112.32'	40.44V
L158	S 16°21'28" E	124.25'	44.73V
L159	N 82°25'23" W	72.82'	26.22V
L160	N 17°31'38" W	114.19'	41.11V
L161	N 05°27'10" E	81.58'	29.37V
L162	N 54°30'07" W	89.35'	32.17V
L163	S 70°45'31" W	152.00'	54.72V
L164	N 78°19'42" W	120.51'	43.38V
L165	S 60°14'46" W	122.05'	43.45V
L166	N 87°01'06" W	215.14'	77.45V
L167	N 68°25'26" W	85.81'	30.89V
L168	S 85°40'53" W	75.05'	27.02V
L169	N 56°37'28" W	100.50'	36.18V
L170	N 81°55'01" W	104.80'	37.73V
L171	N 65°23'02" E	128.18'	46.14V
L172	S 41°55'58" E	121.67'	43.80V
L173	N 80°41'24" E	145.63'	52.43V
L174	N 25°14'23" W	112.34'	40.52V
L175	N 85°47'08" E	136.93'	49.30V
L176	S 51°59'37" E	159.63'	57.47V
L177	S 88°54'52" E	310.40'	111.74V
L178	N 47°05'27" E	68.89'	24.80V
L179	S 73°33'03" E	206.04'	74.18V
L180	N 70°15'39" E	121.00'	43.56V
L181	N 50°58'53" E	117.85'	42.43V
L182	N 80°28'41" E	163.97'	59.03V

TRACT 6A

L183	N 64°28'12" E	190.08'	68.43V
L184	N 58°45'55" E	210.01'	75.60V
L185	N 21°47'52" E	196.62'	70.78V
L186	N 23°31'15" W	129.78'	46.72V
L187	S 75°47'55" E	69.82'	25.14V
L188	N 88°35'45" E	136.54'	49.16V
L189	S 50°29'33" E	118.69'	42.73V
L190	S 73°28'52" W	183.23'	65.96V
L191	S 30°36'48" W	136.32'	49.08V
L192	S 36°58'59" W	150.48'	54.17V
L193	S 68°03'06" W	111.88'	40.28V
L194	S 37°28'50" W	56.25'	20.25V
L195	S 78°24'18" W	157.49'	56.70V
L196	N 83°15'23" W	40.50'	14.58V

TRACT 6B

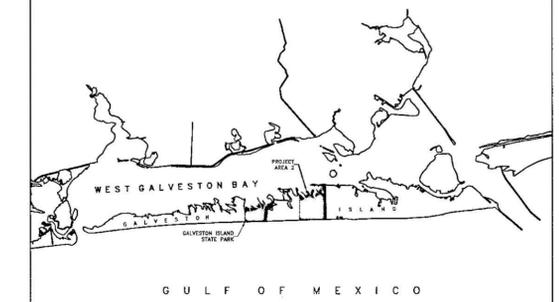
L197	N 58°57'06" W	179.77'	64.72V
L198	S 88°44'49" W	119.00'	42.84V
L199	N 10°11'58" E	92.21'	33.19V
L200	N 85°30'09" E	182.82'	65.82V
L201	N 07°42'25" W	106.36'	38.29V
L202	N 53°25'41" W	100.26'	36.09V
L203	N 14°25'11" E	58.70'	21.13V
L204	N 48°29'26" E	129.15'	46.49V
L205	S 68°49'20" E	208.92'	75.21V
L206	N 69°48'12" E	117.92'	42.45V
L207	N 54°42'16" W	149.96'	53.99V
L208	S 80°03'22" E	142.85'	51.43V
L209	N 47°31'51" E	76.26'	27.45V
L210	S 58°34'19" E	144.47'	52.01V
L211	S 21°14'11" W	63.41'	22.83V
L212	S 80°51'13" W	217.64'	78.35V
L213	N 89°35'09" W	68.16'	24.54V
L214	S 81°04'46" W	50.91'	18.33V
L215	S 65°23'00" W	129.20'	46.51V
L216	N 50°57'35" W	19.77'	7.12V
L217	N 00°34'05" E	19.64'	7.07V
L218	S 86°33'53" W	14.01'	5.04V
L219	S 09°21'58" W	74.65'	26.87V
L220	S 38°42'55" E	172.29'	62.02V
L221	S 72°49'55" W	68.88'	24.80V
L222	S 57°19'27" W	42.84'	15.42V
L223	S 33°29'23" W	41.63'	14.99V
L224	S 38°13'55" E	121.21'	43.64V

TRACT 6C

L225	N 50°36'51" E	119.73'	43.10V
L226	N 08°47'16" W	150.08'	54.03V
L227	S 64°55'37" E	159.19'	57.31V
L228	S 37°51'11" E	81.65'	29.39V
L229	S 75°46'07" W	141.88'	51.08V
L230	S 54°33'38" W	47.82'	17.22V
L231	S 29°47'54" W	60.60'	21.82V
L232	N 68°16'12" W	61.68'	22.21V

TRACT 6D

L233	N 29°53'41" W	147.67'	53.16V
L234	N 14°53'33" E	138.28'	49.78V
L235	N 29°59'08" W	77.26'	27.81V
L236	N 11°14'40" E	31.41'	11.31V
L237	S 76°17'50" E	182.27'	65.62V
L238	S 52°06'02" W	52.51'	18.90V
L239	S 25°29'17" E	64.33'	23.16V
L240	S 63°19'17" W	86.26'	31.05V
L241	S 25°36'42" W	55.76'	20.07V
L242	N 42°16'14" E	62.21'	22.40V
L243	S 27°54'04" E	103.01'	37.08V
L244	N 89°51'35" W	81.65'	29.39V



- NOTES: ARTIFICIAL FILL
- EROSION RESPONSE WORK: CEPRA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES GRID. THE SCALE FACTOR IS 0.999865482 AND MAPPING ANGLE IS 01d 58' 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88

- REFERENCE MONUMENT "HGCS 62"
N: 13,645,727.04
E: 3,264,124.31
ELEV: 6.30' NAVD88
- REFERENCE MONUMENT "H 1186 1964"
N: 13,652,031.54
E: 3,271,254.86
ELEV: 5.59' NAVD88
- REFERENCE MONUMENT "PAM 26 ARP"
N: 13,646,502.95
E: 3,263,870.16
ELEV: 15.18' NAVD88

- ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE R8.
 - MEAN HIGH WATER (MHW) OF 0.95' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "CARANCAHUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
- STATE/PRIVATE OWNERSHIP ALONG GALVESTON STATE PARK (GSPR VOL 2119 PG 392) WAS HELD AT MHW LINE SHOWN ON TEXAS NATURAL RESOURCE CODE ARTICLE 33.136, GALVESTON COUNTY, SKETCH FILE 46, COUNTER #5981, FILED FEBRUARY 28, 2000.
- TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
 - UPLAND TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
 - REFERENCE ACCOMPANYING REPORT DATED OCT, 2014 FOR ADDITIONAL INFORMATION.
 - BACKGROUND IMAGE: NAIP 2012, FOR REFERENCE ONLY.
 - TOE OF ARTIFICIAL FILL EVIDENCED USING 2005 & 2012 AERIAL PHOTOGRAPHY (PICTOMETRY)

TEXAS GENERAL LAND OFFICE
Art. 33.136 Natural Resources Code
Co. Galveston, Sketch No. 79
File Desc: Coastal by R. Kautz

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

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

NO FILL OR BUILDUP IS LOCATED WITHIN THE SURVEYED AREA AND NO RETAINING WALLS OR STRUCTURAL MODIFICATIONS HAVE BEEN PLACED ALONG THE SURVEYED LITTORAL BOUNDARY EXCEPT WHERE NOTED.

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
SURVEY PERSONNEL:

JAMES M. NAISMITH
J.Z. GIESSEL

JAMES M. NAISMITH
LICENSED STATE LAND SURVEYOR



NO.	DATE	REVISION

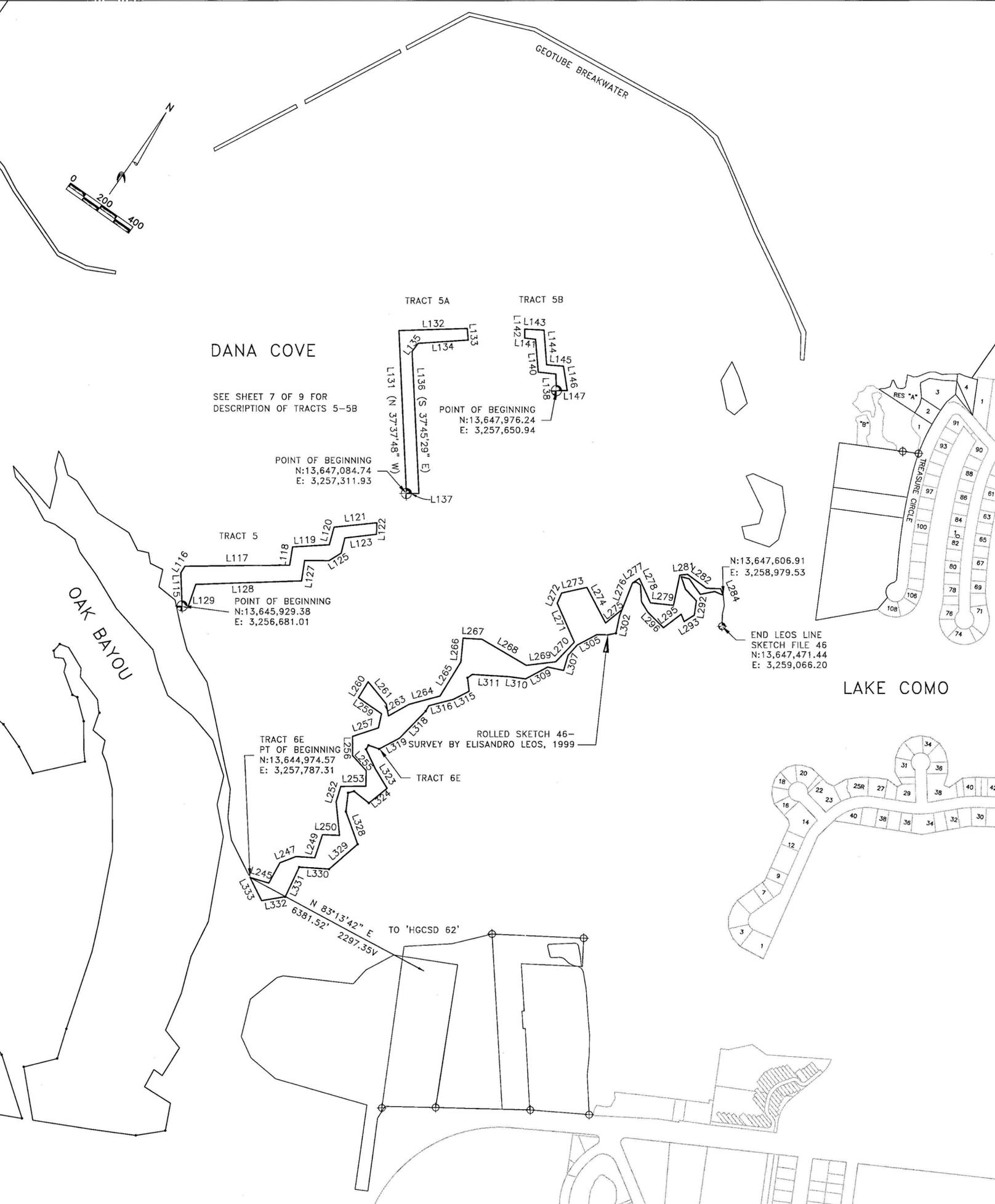
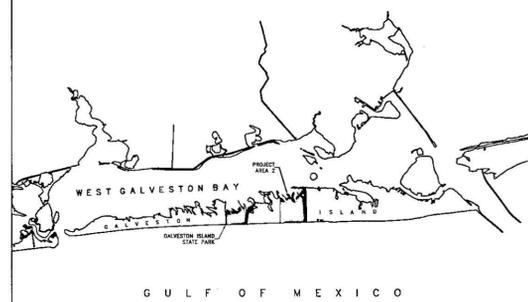
Naismith Marine Services
Sea Floor Surveying
3765 South Alameda, Suite 205
Corpus Christi, Texas 78411
WWW.NAISMITHMARINE.COM
(361) 945-0248

COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMAICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS

SCALE: 1" = 300'
DWN. BY: JZG

PLAN SHEET 8 OF 9
DATE: OCT 2014

NRC Art. 33.136 Galveston Co. Sketch 79



TRACT 6E

L245	N 71°33'12" E	103.11'	37.12V
L246	N 08°19'51" W	120.96'	43.54V
L247	N 34°01'47" E	90.73'	32.66V
L248	N 58°48'07" E	98.71'	35.54V
L249	N 16°18'58" W	127.03'	45.73V
L250	N 57°13'41" E	89.49'	32.22V
L251	N 40°53'37" W	176.38'	63.50V
L252	N 18°00'03" W	83.99'	30.24V
L253	N 54°20'57" E	131.41'	47.31V
L254	N 33°58'05" W	80.63'	29.03V
L255	N 77°39'15" W	105.42'	37.95V
L256	N 35°10'52" W	100.49'	36.17V
L257	N 38°43'11" E	143.37'	51.81V
L258	N 22°54'20" W	75.50'	27.18V
L259	S 89°42'03" W	147.50'	53.10V
L260	N 03°06'54" W	97.25'	35.01V
L261	S 74°33'43" E	149.21'	53.72V
L262	S 45°23'21" E	63.82'	22.98V
L263	N 25°58'20" E	125.06'	45.02V
L264	N 39°59'38" E	167.91'	60.45V
L265	N 03°28'24" W	208.80'	75.17V
L266	N 23°53'53" W	124.87'	44.95V
L267	N 58°06'29" E	99.28'	35.74V
L268	N 85°25'47" E	269.70'	97.09V
L269	N 48°10'21" E	156.85'	56.47V
L270	N 08°26'41" E	141.43'	50.92V
L271	N 58°54'50" W	221.78'	79.84V
L272	N 11°15'26" W	57.64'	20.75V
L273	N 42°32'44" E	135.60'	48.82V
L274	S 63°03'15" E	209.23'	76.32V
L275	N 16°23'23" E	110.94'	39.94V
L276	N 13°17'47" W	143.70'	53.89V
L277	N 22°19'29" E	42.65'	15.36V
L278	S 59°43'36" E	139.77'	50.32V
L279	N 61°06'31" E	121.27'	43.66V
L280	N 23°03'47" W	160.28'	57.70V
L281	N 49°15'47" E	40.83'	14.70V
L282	S 88°53'39" E	123.34'	44.40V
L283	N 56°50'14" E	74.92'	26.97V
L284	S 58°54'11" E	36.32'	13.07V
L285	S 78°18'13" W	48.78'	17.56V
L286	S 44°21'52" W	77.37'	27.85V
L287	N 71°58'21" W	47.94'	17.26V
L288	N 69°29'24" W	51.44'	18.52V
L289	S 68°49'50" W	43.61'	15.70V
L290	S 53°37'32" E	67.69'	24.37V
L291	S 78°31'45" E	83.99'	30.24V
L292	S 26°47'27" E	75.52'	27.19V
L293	S 23°18'24" W	82.59'	29.59V
L294	N 57°58'32" W	40.92'	14.73V
L295	S 18°06'14" W	115.99'	41.76V
L296	N 80°24'03" W	114.97'	41.39V
L297	N 66°46'25" W	63.31'	22.79V
L298	N 38°17'01" W	87.38'	31.46V
L299	N 89°17'51" W	26.96'	9.70V
L300	S 42°57'09" W	20.71'	7.45V
L301	S 13°17'47" E	184.17'	66.30V
L302	S 23°03'13" E	92.78'	33.40V
L303	S 44°00'00" W	43.67'	15.72V
L304	S 56°20'50" W	57.37'	20.65V
L305	S 26°57'30" W	116.39'	41.90V
L306	S 07°02'47" W	72.48'	26.09V
L307	S 18°06'54" E	82.34'	29.64V
L308	S 66°39'21" W	85.76'	30.87V
L309	S 27°04'23" W	131.38'	47.30V
L310	S 62°28'05" W	89.54'	32.23V
L311	S 58°27'25" W	191.56'	68.96V
L312	S 19°16'32" W	30.39'	10.94V
L313	S 41°22'32" E	30.14'	10.85V
L314	S 42°09'39" E	40.67'	14.64V
L315	S 28°01'46" W	94.44'	34.00V
L316	S 40°37'29" W	131.21'	47.24V
L317	S 05°05'53" E	33.58'	12.09V
L318	S 09°11'31" W	195.65'	70.44V
L319	S 27°07'01" W	123.00'	44.28V
L320	S 74°39'01" W	58.98'	21.23V
L321	S 04°40'00" E	25.32'	9.11V
L322	S 60°21'23" E	111.26'	40.05V
L323	S 66°53'34" E	119.43'	43.00V
L324	S 16°08'35" W	122.70'	44.17V
L325	N 86°45'17" W	99.91'	35.97V
L326	S 39°29'03" W	32.03'	11.53V
L327	S 28°22'33" E	99.25'	35.73V
L328	S 54°55'55" E	180.79'	65.08V
L329	S 14°05'04" W	197.49'	71.10V
L330	S 58°42'12" W	158.07'	56.90V
L331	S 09°51'45" E	170.89'	61.52V
L332	S 45°30'32" W	126.27'	45.48V
L333	N 61°44'45" W	135.79'	48.88V

- NOTES: ARTIFICIAL FILL
- EROSION RESPONSE WORK: CEPRA PROJECT NO. 1601 ADMINISTERED BY THE TEXAS GENERAL LAND OFFICE, COASTAL RESOURCES
 - ALL COORDINATES REFER TO THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AS DEFINED BY ARTICLE 21.071 OF THE NATURAL RESOURCES CODE OF THE STATE OF TEXAS, US FEET. ALL BEARINGS ARE LAMBERT GRID BEARINGS AND ALL DISTANCES IN FEET. THE SCALE FACTOR IS 0.999865482 AND MAPPING ANGLE IS 01d 58' 58".
 - COORDINATES AND ELEVATIONS ARE BASED ON MONUMENTS & ON OPUS SOLUTIONS. VERTICAL DATUM: NAVD88
 - REFERENCE MONUMENT "HGCS D 62" N: 13,645,727.04 E: 3,264,124.31 ELEV: 6.30' NAVD88
 - REFERENCE MONUMENT "H 1186 1964" N: 13,652,031.54 E: 3,271,254.86 ELEV: 5.59' NAVD88
 - REFERENCE MONUMENT "PAM 26 ARP" N: 13,646,502.95 E: 3,263,870.16 ELEV: 15.18' NAVD88
 - ALL POSITIONS AND ELEVATIONS RECORDED USING SURVEY GRADE, RTK GPS. EQUIPMENT: HEMISPHERE S320 OR TRIMBLE R8.
 - MEAN HIGH WATER (MHW) OF 0.95' NAVD88 FOR WEST GALVESTON BAY WAS DETERMINED FROM "CARANCAHUA LAKE" TIDE GAUGE DATA REFERENCED TO USCG FREEPORT AND GALVESTON PIER 21 GAUGES.
 - STATE/PRIVATE OWNERSHIP ALONG GALVESTON STATE PARK (GPPR VOL 2119 PG 392) WAS HELD AT MHW LINE SHOWN ON TEXAS NATURAL RESOURCE CODE ARTICLE 33.136, GALVESTON COUNTY, SKETCH FILE 46, COUNTER #5981, FILED FEBRUARY 28, 2000.
 - TO CONVERT FEET TO VARAS MULTIPLY BY 0.36.
 - UPLAND TRACT LINES SHOWN HEREON ARE BASED ON DEED DESCRIPTIONS AND APPRAISAL DISTRICT MAPS; LINES ARE SHOWN FOR REFERENCE ONLY.
 - REFERENCE ACCOMPANYING REPORT DATED OCT, 2014 FOR ADDITIONAL INFORMATION.
 - BACKGROUND IMAGE: NAIP 2012, FOR REFERENCE ONLY.
 - TOE OF ARTIFICIAL FILL EVIDENCED USING 2005 & 2012 AERIAL PHOTOGRAPHY (PICTOMETRY)
1. JAMES M. NAISMITH, HEREBY STATE THAT THIS DRAWING REPRESENTS A SURVEY THAT IS CORRECT, IN ACCORDANCE WITH SECTION 21.042 TEXAS NATURAL RESOURCES CODE, WAS MADE ACCORDING TO LAW, WAS MADE IN THE FIELD UNDER MY DIRECT CONTROL AND SUPERVISION; WAS MADE UTILIZING METHODOLOGY APPROVED BY THE GLO; AND IS RECORDED IN

TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Co. Galveston, Sketch No. 79
 File Date 06/21/2015 by R. Kurtye

SURVEYED: AUGUST 14, 27, SEPTEMBER 15-19, OCTOBER 28, 2014
 SURVEY PERSONNEL:
 JAMES M. NAISMITH
 J.Z. GIESSEL
 JAMES M. NAISMITH
 LICENSED STATE LAND SURVEYOR
 6/14/2015

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

NO.	DATE	REVISION

COASTAL BOUNDARY SURVEY BEING THE LITTORAL BOUNDARY OF MULTIPLE TRACTS OF THE EDWARD HALL AND LEVI JONES, A-121 ADJACENT TO W. GALVESTON BAY AND SUBMERGED STATE TRACTS 66, 67, & 77 FROM JAMAICA BEACH NORTHWARD TO GANGS BAYOU GALVESTON COUNTY, TEXAS

SCALE: 1" = 300'
 DWN. BY: JZG
 PLAN SHEET 9 OF 9
 DATE: OCT 2014

NRC Art. 33.136 Galveston Co. Sketch 79 9/1/2015



TEXAS GENERAL LAND OFFICE
GEORGE P. BUSH, COMMISSIONER

Surveying Division
Coastal Boundary Survey Approval

Project: West Galveston Island Bayside Marsh Restoration

Project No: CEPRA 1601 (GLO)
SL20150039 (GLO)

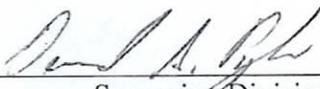
Project Manager: Carla Kartman, Coastal Planner/Coastal Resources
Texas General Land Office

Surveyor: James M. Naismith, License State Land Surveyor

Description: Coastal Boundary Survey, dated June 4, 2015, by James M. Naismith, Licensed State Land Surveyor, delineating portions of the littoral boundary of the Edward Hall & Levi Jones Survey, Abstract 121, on West Galveston Bay, from Carancahua Cove to Dana Cove (Galveston State Park) and from Mentzel Bayou to Gangs Bayou at approximate coordinates N29° 13' 04", W94° 57' 15" (N29.217903°, W94.954381°) WGS84. The survey is in support of a beneficial use of dredged material project, designed to enhance marsh restoration, authorized under General Land Office Special Document SD20140002. The plat and survey report are filed as Document No. 2015036743 in the Galveston County Official Public Records.

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

Approved:

Signed: 
Surveying Division

Oct. 1 2015
Date

Approval Filed as:

Tex. Nat. Res. Code Article 33.136 Galveston County, Sketch No. 79

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79

File Date 06/21/2018 by R. Kartye



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

June 10, 2015

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

RE: Coastal Boundary Survey Maps: Galveston West Bay CBS

Mr. David Pyle:

Please find enclosed one (1) signed and sealed Coastal Boundary Survey (CBS) report and field notes for the Galveston West Bay, Galveston County. Galveston West Bay coastal boundary maps and artificial fill maps were mailed separately at the same time. Nine (9) sheets were sent in a mailer tube and should be filed with this report. This coastal boundary survey report and maps have been filed in Galveston County records under: **Instrument Number: 2015036743**. The trailer page has been enclosed from Galveston County Clerk's Office which has filing information. This information will have to be added to the Mylar copies of each map. Please call me if you have any questions.

Thank you,

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

Encl.

- (1) CBS report
- (1) photocopy of CBS filing information at Galveston County Records

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79
File Date 06/21/2015 by R. Kartye



FILED AND RECORDED

Instrument Number: *2015036743*

Recording Fee: 266.00

Number Of Pages: 62

Filing and Recording Date: 06/10/2015 11:46AM

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Galveston County, Texas.



Dwight D. Sullivan

**Dwight D. Sullivan, County Clerk
Galveston County, Texas**

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the clerk.

DO NOT DESTROY - *Warning, this document is part of the Official Public Record.*

TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79
File Date 06/21/2018 by R. Kartye

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Galveston County, Texas

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TEXAS GENERAL LAND OFFICE
Art. 33.136, Natural Resources Code
Co. Galveston, Sketch No. 79
File Date 06/21/2018 by R. Kartye

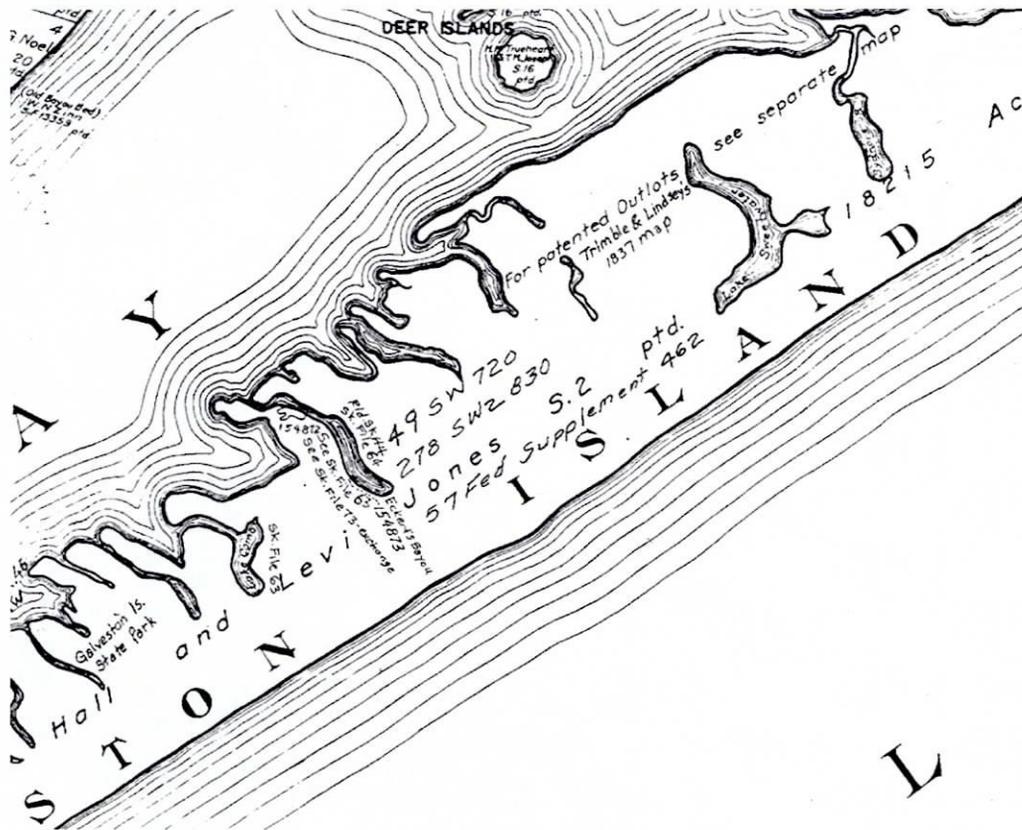
9179

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



October, 2014
 Report of a Coastal Boundary Survey for
 COASTAL BOUNDARY SURVEY OF THE LITTORAL
 BOUNDARY OF MULTIPLE TRACTS OF THE
 EDWARD HALL AND LEVI JONES, A-121
 ADJACENT TO WEST GALV. BAY
 GALVESTON COUNTY, TEXAS

This report accompanies a map of survey dated October 2014.



Survey area is along the northwest side of the Hall and Jones Survey, A-121, and part of the 1837 Trimble and Lindsey Survey of Galveston Island.

TEXAS GENERAL LAND OFFICE
 Art. 33.136, Natural Resources Code
 Co. Galveston, Sketch No. 79

File Date 06/24/2018 by R. Kurtze



Background

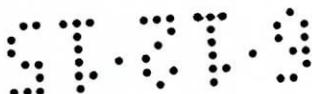
The littoral boundary along two project areas was delineated along the northwest side of Galveston Island. The survey delineates various portions of the littoral boundary of the Hall & Jones Survey, Abstract 121. The purpose was to evidence "the location of the shoreline in the area depicted in this survey as that shoreline existed before commencement of erosion response activity."

Project Area 1 included Galveston Island State Park which is bordered by Jamaica Beach on the west, Lake Como and various tracts on the east, and F.M. 3005 on the south. The Galveston Island State Park property lies within the Trimble and Lindsey 1837 Survey – Section 3. Project Areas 2a and 2b include portions of Starvation Cove, Mentzel Bayou, Melager Cove, Oxen Bayou, and Gangs Bayou. Project Areas 2a and 2b are within Trimble and Lindsey Survey - Section 2. The majority of upland land in the west portion of Project Area 2a is owned by Anchor Bay, Ltd. Project Area 2b is made up primarily of 10 acre Trimble and Lindsey tracts owned by various owners.

According to laws authorized by the First Congress of the Republic of Texas, Galveston Island (except the previously granted M.B. Menard Grant) was surveyed into lots of 10 and 40 acres. The survey was carried out by R.C. Trimble and William Lindsey which is shown on the Trimble and Lindsey map of 1837. Common Law of England is applied to lands conveyed in Texas after January 20, 1840. The majority of lots were bought by Levi Jones and Edward Hall. The Hall and Jones Grant was signed by Mirabeau B. Lamar, president of the Republic of Texas, on November 28, 1840 and the boundary between state and private ownership is the Mean High Water (MHW) line (Bouse, Texas Natural Resource Code Article 33.136, Galveston County, Sketch File 47).

Survey Control

Horizontal control for this project is based on the control point 'HGCS D 62' - PID: AW5708, 'H 1186 1964' - PID: AW0621, 'PAM 26 ARP' – PID: DI3438, benchmarks near the survey area, and '1649 A 2012' a control monument set for the Carancahua Lake Tide Gauge directly across West Galveston Bay from the project site. OPUS solutions were used to check the published coordinates of 'HGCS D 62' in the Texas State Plane Coordinate System, South Central Zone. Datum is NAD83, US Feet.





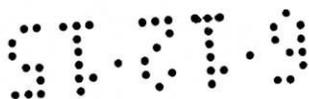
HGCSD 62 - PID: AW5708

Tidal Datums

MHW for this portion of West Galveston Bay was determined in June 2013 for an adjacent project along a 62 acre tract of the Hall and Jones Survey, A-121 to the southwest of Jamaica Beach, filed at the Texas GLO under Texas Natural Resource (TNR) Code Article 33.136, Galveston County, Sketch File 72. The tide gauge 'USCG Freeport' and three months of tidal observations at the tide gauge 'Carancahua Lake' were used to establish MHW for this survey. Reference to 'Carancahua Lake' was made by tying in three benchmarks; '1649 A 2012', '1649 B 2012', and '1649 C 2012'. The MHW elevation was also compared and checked to the datums established at the 'Galveston Railroad Bridge' tide gauge from the 'Pier 21' tide gauge. As referenced to this survey, the elevation of MHW on the West Galveston Bay shoreline is 0.95 feet (datum is NAVD 88, geoid 2012a).

MHW Survey

The MHW line was measured along the shoreline of West Galveston Bay along both project areas, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The survey was conducted on September 15 – 19, 2014 by Justin Zac Giessel under the direct supervision of James M. Naismith, LSLS. Upland tract owners are shown on the accompanying map based on Galveston County Public Records (GCPR) and Galveston County appraisal district maps. Tracts were drawn based on observed boundary corners on the ground. Due to artificial fill, State/private ownership along the littoral boundary of Project Area 1, Galveston State Park (GCPR Vol 2119 Pg 392), was held at the Mean Higher High Water (MHHW) line shown on the TNR Code Article 33.136, Galveston County, Sketch File 46, counter # 5981, filed February 28, 2000 and surveyed by Elisandro Leos during the months of March and April, 1999. Both project areas are composed of mostly clay, silt, and sand. In most areas it is heavily vegetated.





Left: a brass Texas Parks and Wildlife Department monument was found along the boundary of the 1950.57 acre Galveston State Park. Right: 2" iron pipes were found for some of the 10 acre tract boundary corners within the submerged marsh. These 10 acre Trimble and Lindsey Survey tracts composed the majority of Project Area 2.

This survey does not represent a property boundary survey for any of the upland tracts.

State lease tracts were drawn from GLO map 'East Part of West Bay & S-W Part of Galveston Bay' "Galveston County Showing Subdivision for Mineral Development – General Land Office – Austin, Texas. Bob Armstrong, Commissioner April 1963" (2003_1906.tif).

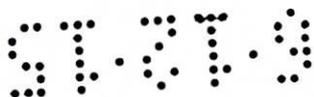
Artificial fill and submerged private land

Project Area 1: Galveston Island State Park

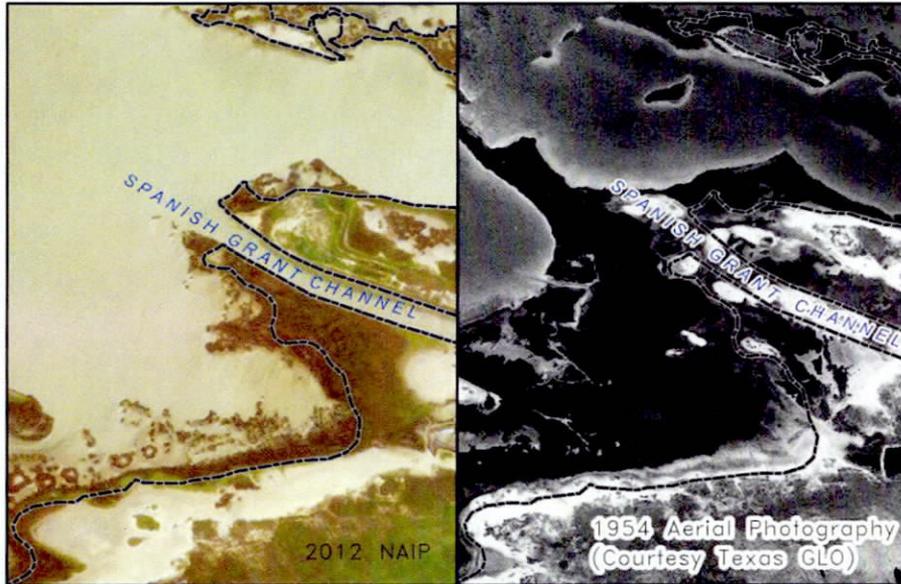
The West Galveston Bay shoreline of Galveston Island State Park (GCPR Vol 2119 Pg 392) was determined to contain artificial fill as a result of marsh restoration projects in the vicinity as well as accretion along the shoreline as a result of erosive distribution of marsh restoration materials from these sites (see maps 8-9 dated October 2014 for detail of fill). According to Google Earth imagery, a series of marsh mounds were completed from 2010 to 2011 along the West Galveston Bay shoreline at the State Park. The State Park shoreline has since accreted from between 0 to 250 feet beyond the MHHW line depicted in Galveston County, Sketch File 46 surveyed by Elisandro Leos in 2000.

Project Area 2: Anchor Bay Subdivision and other portions of Trimble and Lindsey Survey (1837)

According to a comparison of 1954 aerial images from the Texas GLO and recent 2012 NAIP imagery, the majority of shoreline found along Project Areas 2a-2b is receding. Some small islands have disappeared altogether. Two canals have been excavated since 1954 including the Spanish Grant Channel and a channel cut on the southern terminus of Oxen Bayou from



uplands shown on the Galveston County tax rolls to be owned by Kyle and Linda Kelley; however, documentation of ownership could not be found. The delineated State boundary cuts across and excludes these artificial channels.



Spanish Grant Channel shown on 2012 and 1954 aerial photography. The line depicted is the current MHW contour. The coastal boundary crosses the mouth of Spanish Grant Channel and is shown on sheet 3 of 6 the accompanying maps.



The southern terminus of Oxen Bayou has been extended onto private property. As such, the coastal boundary shown on sheet 3 of 9 of the accompanying maps is shown to bypass this artificial channel.



Project Area 1 – TRACT 1

Field Notes for the littoral boundary along the West Galveston Bay shoreline of the 1,950.57 acre tract described in volume 2119 page 392 of the GCPR, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundary is adjacent to State Tracts 66 and 67 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas State Plane Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

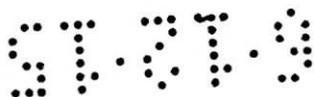
Beginning at a found submerged TPWD concrete monument on the east edge of a drainage channel of varying width (approx. 10' to 14'), N = 13,639,739.00, E = 3,251,624.24, from which "HGCS D 62" bears N 64°24'13" E a distance of 13,860.32' (4,989.71v);

thence N 38°53'14" E along MHHW line shown on TNR Code Article 33.136, Galveston County, Sketch File 46 a distance of 6.4' (2.3v);

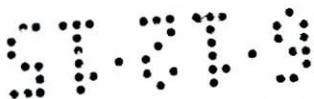
thence N 52°25'25" E a distance of 40.95' (14.74v);
thence N 01°38'48" W a distance of 117.94' (42.46v);
thence N 82°37'53" E a distance of 69.40' (24.98v);
thence S 78°47'18" E a distance of 62.61' (22.54v);
thence S 55°41'08" E a distance of 94.25' (33.93v);
thence N 83°51'56" E a distance of 72.14' (25.97v);
thence N 63°26'46" E a distance of 80.04' (28.81v);
thence N 06°25'31" W a distance of 61.86' (22.27v);
thence N 29°02'12" W a distance of 47.96' (17.27v);
thence N 52°48'40" W a distance of 73.94' (26.62v);
thence N 15°14'01" W a distance of 63.34' (22.80v);
thence N 65°11'00" E a distance of 138.74' (49.95v);
thence N 13°14'45" W a distance of 96.32' (34.68v);
thence N 78°16'06" W a distance of 125.44' (45.16v);
thence N 38°58'50" W a distance of 44.40' (15.98v);
thence N 23°54'56" W a distance of 260.71' (93.86v);
thence N 25°47'39" E a distance of 139.83' (50.34v);
thence N 76°02'28" E a distance of 92.08' (33.15v);
thence S 73°56'45" E a distance of 99.25' (35.73v);
thence N 86°59'21" E a distance of 109.79' (39.52v);
thence N 12°46'51" W a distance of 189.94' (68.38v);
thence N 84°25'01" E a distance of 60.69' (21.85v);
thence S 59°59'14" E a distance of 53.95' (19.42v);
thence S 19°41'29" E a distance of 48.96' (17.63v);
thence S 20°06'41" W a distance of 107.47' (38.69v);
thence S 54°59'10" E a distance of 88.71' (31.94v);
thence N 67°49'54" E a distance of 151.07' (54.39v);
thence N 03°51'39" W a distance of 63.95' (23.02v);



thence N 52°08'48" E a distance of 59.99' (21.6v);
thence N 78°46'48" E a distance of 92.80' (33.41v);
thence S 81°13'18" E a distance of 102.51' (36.90v);
thence N 62°25'13" E a distance of 122.21' (44.00v);
thence N 03°33'08" E a distance of 89.40' (32.18v);
thence N 35°32'40" W a distance of 196.62' (70.78v);
thence N 46°58'17" W a distance of 51.58' (18.57v);
thence N 33°29'56" W a distance of 59.78' (21.52v);
thence N 33°04'57" E a distance of 19.27' (6.94v);
thence S 84°31'38" E a distance of 62.52' (22.51v);
thence S 68°28'56" E a distance of 46.79' (16.84v);
thence S 47°22'29" E a distance of 72.15' (25.97v);
thence S 32°54'15" E a distance of 183.70' (66.13v);
thence S 79°21'08" E a distance of 118.49' (42.66v);
thence S 69°10'21" E a distance of 79.02' (28.45v);
thence S 46°06'53" E a distance of 93.48' (33.65v);
thence S 63°50'28" E a distance of 130.00' (46.80v);
thence S 54°15'36" E a distance of 92.74' (33.39v);
thence S 49°06'30" E a distance of 251.86' (90.67v);
thence S 49°18'39" E a distance of 463.12' (166.72v);
thence S 38°09'47" E a distance of 89.42' (32.19v);
thence S 78°17'43" E a distance of 152.35' (54.85v);
thence N 61°15'20" E a distance of 89.54' (32.23v);
thence N 27°14'17" E a distance of 165.28' (59.5v);
thence N 23°28'36" E a distance of 125.88' (45.32v);
thence N 66°07'34" W a distance of 76.92' (27.69v);
thence N 48°03'55" W a distance of 138.76' (49.95v);
thence S 61°56'04" W a distance of 90.45' (32.56v);
thence N 60°59'16" W a distance of 91.15' (32.81v);
thence N 51°24'31" W a distance of 138.23' (49.76v);
thence N 41°01'45" W a distance of 236.80' (85.25v);
thence N 73°20'35" E a distance of 66.68' (24.00v);
thence N 03°24'09" W a distance of 33.75' (12.15v);
thence N 69°53'16" W a distance of 39.30' (14.15v);
thence S 54°17'52" W a distance of 42.29' (15.22v);
thence N 62°26'38" W a distance of 56.85' (20.47v);
thence N 32°45'08" W a distance of 131.36' (47.29v);
thence N 18°19'17" W a distance of 86.02' (30.97v);
thence N 39°14'36" E a distance of 31.26' (11.25v);
thence N 70°12'14" E a distance of 134.44' (48.4v);
thence N 68°31'22" W a distance of 120.85' (43.51v);
thence N 77°38'04" W a distance of 69.68' (25.08v);
thence N 34°05'06" W a distance of 58.74' (21.15v);
thence S 75°17'59" W a distance of 94.52' (34.03v);



thence S 00°53'37" W a distance of 101.94' (36.70v);
thence N 66°02'16" W a distance of 23.73' (8.54v);
thence N 32°30'13" W a distance of 104.82' (37.74v);
thence N 61°55'38" W a distance of 113.30' (40.79v);
thence N 67°18'21" W a distance of 185.59' (66.81v);
thence S 89°23'47" W a distance of 60.45' (21.76v);
thence N 59°14'09" W a distance of 96.17' (34.62v);
thence N 77°11'49" W a distance of 143.17' (51.54v);
thence N 72°00'15" W a distance of 149.43' (53.79v);
thence N 88°25'48" W a distance of 94.61' (34.06v);
thence N 72°27'13" W a distance of 167.09' (60.15v);
thence N 85°33'46" W a distance of 82.45' (29.68v);
thence N 49°46'22" W a distance of 134.81' (48.53v);
thence N 89°02'26" W a distance of 189.55' (68.24v);
thence N 79°10'09" W a distance of 67.79' (24.40v);
thence N 61°05'08" W a distance of 51.93' (18.69v);
thence N 56°06'43" W a distance of 72.88' (26.24v);
thence N 64°26'35" W a distance of 113.97' (41.03v);
thence N 28°36'38" E a distance of 50.98' (18.35v);
thence N 56°26'41" E a distance of 119.68' (43.08v);
thence S 43°53'24" E a distance of 67.53' (24.31v);
thence S 01°21'46" W a distance of 65.10' (23.44v);
thence S 49°48'31" E a distance of 173.47' (62.45v);
thence N 83°32'54" E a distance of 145.86' (52.51v);
thence N 00°09'49" E a distance of 59.46' (21.41v);
thence N 64°43'52" W a distance of 69.96' (25.19v);
thence N 24°18'16" W a distance of 138.34' (49.8v);
thence N 44°23'07" E a distance of 18.61' (6.70v);
thence S 43°16'15" E a distance of 166.06' (59.78v);
thence S 59°46'02" E a distance of 135.38' (48.74v);
thence S 64°47'41" E a distance of 293.36' (105.61v);
thence N 80°53'58" E a distance of 335.67' (120.84v);
thence S 65°25'30" E a distance of 145.23' (52.28v);
thence S 50°21'00" E a distance of 154.76' (55.71v);
thence S 23°21'33" E a distance of 144.13' (51.89v);
thence S 66°07'23" E a distance of 205.40' (73.94v);
thence N 54°51'14" E a distance of 65.56' (23.60v);
thence N 80°26'49" E a distance of 97.70' (35.17v);
thence N 75°35'57" E a distance of 241.05' (86.78v);
thence N 43°15'52" E a distance of 125.55' (45.20v);
thence N 80°29'48" E a distance of 243.87' (87.79v);
thence N 28°28'05" W a distance of 132.31' (47.63v);
thence N 37°33'37" E a distance of 23.71' (8.54v);
thence S 66°26'20" E a distance of 266.26' (95.85v);



thence S 64°10'31" E a distance of 392.79' (141.40v);
thence N 77°53'05" E a distance of 88.52' (31.87v);
thence S 26°53'06" E a distance of 132.67' (47.76v);
thence N 20°42'50" E a distance of 141.31' (50.87v);
thence S 86°20'19" E a distance of 119.08' (42.87v);
thence S 76°28'14" E a distance of 249.22' (89.72v);
thence S 40°48'06" W a distance of 113.02' (40.69v);
thence S 15°04'49" E a distance of 22.24' (8.01v);
thence N 80°10'02" E a distance of 72.50' (26.10v);
thence S 09°34'17" E a distance of 128.92' (46.41v);
thence S 06°50'06" E a distance of 198.16' (71.34v);
thence N 67°08'31" E a distance of 355.23' (127.88v);
thence N 45°22'25" E a distance of 244.67' (88.08v);
thence N 48°03'15" E a distance of 131.53' (47.35v);
thence N 34°46'13" W a distance of 81.97' (29.51v);
thence S 87°45'22" W a distance of 153.06' (55.10v);
thence S 76°53'13" W a distance of 119.65' (43.07v);
thence N 75°46'36" W a distance of 85.57' (30.81v);
thence N 32°33'17" W a distance of 71.22' (25.64v);
thence S 81°00'28" W a distance of 66.07' (23.79v);
thence N 04°58'06" E a distance of 30.25' (10.89v);
thence N 42°18'20" W a distance of 29.18' (10.5v);
thence S 46°34'29" W a distance of 92.13' (33.17v);
thence N 24°10'21" W a distance of 98.95' (35.62v);
thence N 58°13'32" W a distance of 213.43' (76.83v);
thence S 88°06'11" W a distance of 118.75' (42.75v);
thence N 82°04'57" W a distance of 190.13' (68.45v);
thence N 78°33'07" W a distance of 150.02' (54.01v);
thence N 63°23'26" W a distance of 342.40' (123.26v);
thence N 71°21'48" W a distance of 156.33' (56.28v);
thence N 64°46'35" W a distance of 86.64' (31.19v);
thence N 89°54'39" W a distance of 129.31' (46.55v);
thence S 67°38'14" W a distance of 213.49' (76.86v);
thence N 87°17'31" W a distance of 104.04' (37.45v);
thence N 52°35'10" W a distance of 61.41' (22.11v);
thence N 27°25'49" W a distance of 33.45' (12.04v);
thence N 76°17'44" W a distance of 215.40' (77.54v);
thence N 57°21'42" W a distance of 136.22' (49.04v);
thence N 75°47'58" W a distance of 174.90' (62.96v);
thence N 30°16'15" E a distance of 80.69' (29.05v);
thence N 78°23'11" E a distance of 110.62' (39.82v);
thence N 79°50'21" E a distance of 167.65' (60.35v);
thence N 55°22'30" E a distance of 78.99' (28.44v);
thence S 81°55'01" E a distance of 216.46' (77.93v);



thence S 56°37'28" E a distance of 100.5' (36.18v);
thence N 85°40'53" E a distance of 75.05' (27.02v);
thence S 68°25'26" E a distance of 85.81' (30.89v);
thence S 87°01'06" E a distance of 215.14' (77.45v);
thence N 60°14'46" E a distance of 122.05' (43.94v);
thence S 78°19'47" E a distance of 120.51' (43.38v);
thence N 70°45'31" E a distance of 152.00' (54.72v);
thence S 54°30'07" E a distance of 89.35' (32.17v);
thence S 05°27'10" W a distance of 81.58' (29.37v);
thence S 17°31'38" E a distance of 114.19' (41.11v);
thence S 82°25'23" E a distance of 72.82' (26.22v);
thence N 16°21'28" W a distance of 124.25' (44.73v);
thence N 32°27'18" E a distance of 112.32' (40.44v);
thence N 52°11'17" E a distance of 42.50' (15.30v);
thence S 71°45'51" E a distance of 109.99' (39.60v);
thence N 21°29'11" E a distance of 90.32' (32.52v);
thence S 89°29'03" E a distance of 166.07' (59.79v);
thence N 28°05'56" E a distance of 31.42' (11.31v);
thence S 78°36'29" E a distance of 81.88' (29.48v);
thence N 36°32'22" W a distance of 177.31' (63.83v);
thence N 73°11'31" E a distance of 117.24' (42.21v);
thence N 77°17'31" E a distance of 126.6' (45.58v);
thence N 17°39'35" E a distance of 96.9' (34.88v);
thence S 83°15'23" E a distance of 52.29' (18.82v);
thence N 78°24'18" E a distance of 157.49' (56.7v);
thence N 37°28'50" E a distance of 56.25' (20.25v);
thence N 68°03'06" E a distance of 111.88' (40.28v);
thence N 36°58'59" E a distance of 150.48' (54.17v);
thence N 30°36'48" E a distance of 136.32' (49.08v);
thence N 73°26'52" E a distance of 183.23' (65.96v);
thence N 50°29'33" W a distance of 118.69' (42.73v);
thence S 88°35'45" W a distance of 136.54' (49.15v);
thence N 75°47'55" W a distance of 69.82' (25.14v);
thence N 13°23'55" W a distance of 32.18' (11.58v);
thence N 42°51'11" W a distance of 143.91' (51.81v);
thence S 62°15'02" W a distance of 130.5' (46.98v);
thence S 76°08'12" W a distance of 78.03' (28.09v);
thence N 77°47'05" W a distance of 128.17' (46.14v);
thence N 38°13'55" W a distance of 121.21' (43.64v);
thence N 33°29'23" E a distance of 41.63' (14.99v);
thence N 57°19'27" E a distance of 42.84' (15.42v);
thence N 72°49'55" E a distance of 68.88' (24.80v);
thence N 38°42'55" W a distance of 172.29' (62.02v);
thence N 00°21'58" E a distance of 74.65' (26.87v);



thence N 86°33'53" E a distance of 14.01' (5.04v);
thence S 00°34'05" W a distance of 19.64' (7.07v);
thence S 50°57'35" E a distance of 19.77' (7.12v);
thence N 65°23'00" E a distance of 129.20' (46.51v);
thence N 81°04'46" E a distance of 50.91' (18.33v);
thence S 89°35'09" E a distance of 68.16' (24.54v);
thence N 80°51'13" E a distance of 217.64' (78.35v);
thence N 21°14'11" E a distance of 63.41' (22.83v);
thence N 58°34'19" W a distance of 144.47' (52.01v);
thence S 47°31'51" W a distance of 76.26' (27.45v);
thence N 80°03'22" W a distance of 142.85' (51.43v);
thence N 57°29'16" W a distance of 48.16' (17.34v);
thence N 27°32'50" E a distance of 34.40' (12.38v);
thence S 85°05'48" E a distance of 73.92' (26.61v);
thence S 68°16'12" E a distance of 61.68' (22.20v);
thence N 29°47'34" E a distance of 60.60' (21.82v);
thence N 54°33'38" E a distance of 47.82' (17.22v);
thence N 75°46'07" E a distance of 141.88' (51.08v);
thence N 37°51'11" W a distance of 81.65' (29.39v);
thence N 64°55'37" W a distance of 202.11' (72.76v);
thence S 80°38'49" W a distance of 188.02' (67.69v);
thence N 28°04'19" W a distance of 69.33' (24.96v);
thence N 69°30'07" W a distance of 74.92' (26.97v);
thence N 44°26'29" E a distance of 58.01' (20.88v);
thence S 89°51'35" E a distance of 81.65' (29.39v);
thence N 27°54'04" W a distance of 103.01' (37.08v);
thence N 42°16'14" W a distance of 62.21' (22.4v);
thence N 25°36'42" E a distance of 55.76' (20.07v);
thence N 63°19'17" E a distance of 86.26' (31.05v);
thence N 25°29'17" W a distance of 64.33' (23.16v);
thence N 52°06'02" E a distance of 52.51' (18.90v);
thence S 56°47'58" E a distance of 76.06' (27.38v);
thence S 89°14'41" E a distance of 74.70' (26.89v);
thence S 61°12'43" E a distance of 239.42' (86.19v);
thence S 62°02'32" E a distance of 249.97' (89.99v);
thence S 73°19'40" E a distance of 142.64' (51.35v);
thence S 73°24'35" E a distance of 189.38' (68.18v);
thence S 58°28'32" E a distance of 125.93' (45.33v);
thence S 41°56'23" E a distance of 129.73' (46.70v);
thence S 33°57'11" E a distance of 228.17' (82.14v);
thence S 32°47'49" E a distance of 157.18' (56.58v);
thence S 16°51'05" E a distance of 51.15' (18.41v);
thence S 79°43'13" W a distance of 83.49' (30.06v);
thence S 80°35'56" W a distance of 301.85' (108.67v);



thence S 74°29'29" W a distance of 308.79' (111.16v);
thence S 66°00'20" W a distance of 141.72' (51.02v);
thence S 46°47'31" E a distance of 51.89' (18.68v);
thence S 09°39'03" E a distance of 62.21' (22.40v);
thence S 49°11'24" E a distance of 88.74' (31.95v);
thence N 71°37'31" E a distance of 142.69' (51.37v);
thence N 38°25'26" E a distance of 28.44' (10.24v);
thence N 65°00'05" E a distance of 155.47' (55.97v);
thence S 87°52'51" E a distance of 101.19' (36.43v);
thence N 68°10'54" E a distance of 86.10' (31.00v);
thence N 86°08'07" E a distance of 100.09' (36.03v);
thence S 62°02'11" E a distance of 129.94' (46.78v);
thence N 72°55'48" E a distance of 102.71' (36.98v);
thence N 08°50'38" E a distance of 66.99' (24.12v);
thence S 79°15'06" E a distance of 148.94' (53.62v);
thence S 57°52'02" E a distance of 296.48' (106.73v);
thence S 50°27'41" E a distance of 169.82' (61.14v);
thence N 64°31'16" E a distance of 454.95' (163.78v);
thence N 52°44'20" W a distance of 350.41' (126.15v);
thence N 68°12'17" W a distance of 252.52' (90.91v);
thence N 40°45'43" W a distance of 445.09' (160.23v);
thence N 27°36'27" W a distance of 135.03' (48.61v);
thence N 49°21'17" W a distance of 240.18' (86.46v);
thence N 80°14'49" W a distance of 95.57' (34.41v);
thence N 46°42'09" W a distance of 160.72' (57.86v);
thence N 49°03'45" W a distance of 154.51' (55.62v);
thence N 62°37'25" W a distance of 216.45' (77.92v);
thence N 70°39'38" W a distance of 232.47' (83.69v);
thence N 65°27'06" W a distance of 253.31' (91.19v);
thence N 60°24'22" W a distance of 355.01' (127.8v);
thence N 65°09'21" W a distance of 218.16' (78.54v);
thence N 60°22'46" W a distance of 120.96' (43.55v);
thence N 53°16'02" W a distance of 90.35' (32.53v);
thence N 63°55'14" W a distance of 437.78' (157.60v);
thence N 69°41'00" W a distance of 255.50' (91.98v);
thence N 57°07'06" W a distance of 164.51' (59.22v);
thence N 66°01'39" W a distance of 489.82' (176.34v);
thence N 50°37'05" W a distance of 244.39' (87.98v);
thence N 34°21'49" W a distance of 41.54' (14.95v);
thence N 38°21'46" E a distance of 47.29' (17.02v);
thence S 64°16'22" E a distance of 278.99' (100.44v);
thence S 70°38'25" E a distance of 290.98' (104.75v);
thence S 60°54'13" E a distance of 305.80' (110.09v);
thence S 65°19'10" E a distance of 182.34' (65.64v);



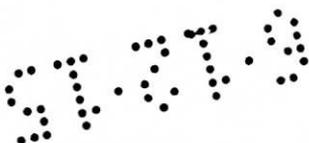
thence S 66°30'04" E a distance of 113.94' (41.02v);
thence S 35°04'08" E a distance of 133.23' (47.96v);
thence S 66°47'40" E a distance of 196.77' (70.84v);
thence S 70°32'50" E a distance of 431.09' (155.19v);
thence S 82°23'59" E a distance of 225.69' (81.25v);
thence S 64°03'14" E a distance of 145.00' (52.2v);
thence N 04°52'07" W a distance of 82.84' (29.82v);
thence N 12°44'51" E a distance of 49.75' (17.91v);
thence N 77°00'56" E a distance of 62.12' (22.36v);
thence S 38°16'34" E a distance of 153.17' (55.14v);
thence S 89°05'50" E a distance of 157.62' (56.74v);
thence N 04°23'22" W a distance of 86.47' (31.13v);
thence N 46°40'52" W a distance of 128.23' (46.16v);
thence N 57°52'50" E a distance of 24.93' (8.97v);
thence S 50°26'29" E a distance of 97.96' (35.27v);
thence S 89°51'58" E a distance of 51.20' (18.43v);
thence S 51°29'20" E a distance of 313.27' (112.78v);
thence S 84°37'38" E a distance of 149.79' (53.92v);
thence S 69°57'31" E a distance of 143.28' (51.58v);
thence S 62°46'51" E a distance of 155.53' (55.99v);
thence N 42°27'39" E a distance of 280.41' (100.95v);
thence N 40°48'07" W a distance of 55.87' (20.11v);
thence N 35°24'58" W a distance of 154.91' (55.77v);
thence N 50°07'16" W a distance of 130.54' (46.99v);
thence S 79°56'16" W a distance of 28.50' (10.26v);
thence N 55°07'55" W a distance of 127.64' (45.95v);
thence N 21°17'24" W a distance of 41.89' (15.08v);
thence N 58°53'18" W a distance of 33.47' (12.05v);
thence S 60°21'57" W a distance of 45.73' (16.46v);
thence N 42°36'57" W a distance of 35.38' (12.74v);
thence N 06°52'07" E a distance of 46.78' (16.84v);
thence N 75°51'13" E a distance of 50.10' (18.04v);
thence S 66°08'01" E a distance of 126.83' (45.66v);
thence S 29°49'27" E a distance of 45.49' (16.38v);
thence S 72°18'24" E a distance of 149.11' (53.68v);
thence S 41°17'21" E a distance of 70.50' (25.38v);
thence S 15°50'44" E a distance of 94.58' (34.05v);
thence S 84°34'53" E a distance of 82.93' (29.85v);
thence S 22°41'32" E a distance of 67.48' (24.29v);
thence S 58°28'55" E a distance of 51.90' (18.68v);
thence S 47°59'07" E a distance of 143.27' (51.58v);
thence S 35°23'53" E a distance of 318.14' (114.53v);
thence S 24°02'20" E a distance of 399.51' (143.82v);
thence S 22°08'49" E a distance of 145.84' (52.50v);



thence S 16°34'23" E a distance of 425.85' (153.31v);
thence S 18°00'31" E a distance of 161.40' (58.10v);
thence S 40°58'54" W a distance of 180.93' (65.13v);
thence S 44°35'20" E a distance of 283.16' (101.94v);
thence N 63°59'20" E a distance of 300.05' (108.02v);
thence N 62°49'15" E a distance of 246.11' (88.60v);
thence N 45°56'47" E a distance of 157.78' (56.80v);
thence N 24°22'01" W a distance of 146.64' (52.79v);
thence S 87°10'06" W a distance of 162.02' (58.33v);
thence N 06°15'21" W a distance of 102.93' (37.05v);
thence S 89°25'01" E a distance of 54.01' (19.44v);
thence N 02°49'36" W a distance of 171.25' (61.65v);
thence N 73°32'12" W a distance of 117.93' (42.45v);
thence N 11°38'57" W a distance of 210.61' (75.82v);
thence N 20°21'50" W a distance of 199.65' (71.87v);
thence N 08°42'19" W a distance of 205.07' (73.83v);
thence N 24°57'41" W a distance of 450.65' (162.23v);
thence N 46°06'14" W a distance of 171.68' (61.80v);
thence N 21°51'57" W a distance of 152.51' (54.90v);
thence N 52°18'54" W a distance of 195.20' (70.27v);
thence N 74°49'49" W a distance of 169.68' (61.08v);
thence N 85°53'52" W a distance of 165.33' (59.52v);
thence N 55°46'41" W a distance of 141.04' (50.77v);
thence N 49°20'29" W a distance of 109.27' (39.34v);
thence N 76°52'31" W a distance of 288.31' (103.79v);
thence N 66°18'51" W a distance of 213.03' (76.69v);
thence N 71°09'00" W a distance of 138.55' (49.88v);
thence N 56°07'49" W a distance of 71.55' (25.76v);
thence N 88°48'15" W a distance of 131.11' (47.2v);
thence S 75°31'20" W a distance of 57.67' (20.76v);
thence N 65°27'44" W a distance of 40.20' (14.47v);
thence N 63°10'28" W a distance of 114.18' (41.10v);
thence N 75°50'02" W a distance of 119.82' (43.14v);
thence N 46°40'50" W a distance of 57.92' (20.85v);
thence S 76°02'01" E a distance of 293.60' (105.70v);
thence N 21°50'48" W a distance of 160.62' (57.82v);
thence N 45°01'10" W a distance of 58.63' (21.11v);
thence N 21°48'36" W a distance of 86.78' (31.24v);
thence S 67°11'48" E a distance of 43.29' (15.58v);
thence S 50°56'57" E a distance of 90.4' (32.54v);
thence N 87°33'14" E a distance of 57.48' (20.69v);
thence S 68°07'57" E a distance of 197.93' (71.25v);
thence N 87°21'38" E a distance of 193.56' (69.68v);
thence S 61°48'59" E a distance of 102.86' (37.03v);



thence N 66°47'22" E a distance of 58.20' (20.95v);
 thence S 45°11'42" E a distance of 56.11' (20.20v);
 thence N 80°55'49" E a distance of 73.28' (26.38v);
 thence S 21°45'12" E a distance of 92.22' (33.20v);
 thence S 86°20'33" E a distance of 109.28' (39.34v);
 thence S 47°17'09" E a distance of 134.80' (48.53v);
 thence S 50°00'36" E a distance of 133.34' (48.00v);
 thence S 67°00'18" E a distance of 198.57' (71.49v);
 thence S 47°53'26" E a distance of 153.55' (55.28v);
 thence S 46°58'30" E a distance of 295.35' (106.33v);
 thence S 48°04'27" E a distance of 122.56' (44.12v);
 thence S 30°18'04" E a distance of 149.87' (53.95v);
 thence S 44°00'19" E a distance of 118.49' (42.66v);
 thence S 61°44'45" E a distance of 353.77' (127.36v);
 thence N 45°30'32" E a distance of 126.27' (45.46v);
 thence N 09°51'45" W a distance of 170.89' (61.52v);
 thence N 58°42'12" E a distance of 158.07' (56.91v);
 thence N 14°05'04" E a distance of 197.49' (71.10v);
 thence N 54°55'55" W a distance of 180.79' (65.08v);
 thence N 28°22'33" W a distance of 99.25' (35.73v);
 thence N 39°29'03" E a distance of 32.03' (11.53v);
 thence S 86°45'17" E a distance of 99.91' (35.97v);
 thence N 16°08'35" E a distance of 122.70' (44.17v);
 thence N 66°53'34" W a distance of 119.43' (42.99v);
 thence N 60°21'23" W a distance of 111.26' (40.05v);
 thence N 04°40'00" W a distance of 25.32' (9.12v);
 thence N 74°39'01" E a distance of 58.98' (21.23v);
 thence N 27°07'01" E a distance of 123.00' (44.28v);
 thence N 09°11'31" E a distance of 195.65' (70.43v);
 thence N 05°05'53" W a distance of 33.58' (12.09v);
 thence N 40°37'29" E a distance of 131.21' (47.24v);
 thence N 28°01'46" E a distance of 94.44' (34.00v);
 thence N 42°09'39" W a distance of 40.67' (14.64v);
 thence N 41°22'32" W a distance of 30.14' (10.85v);
 thence N 19°16'32" E a distance of 30.39' (10.94v);
 thence N 58°27'25" E a distance of 191.56' (68.96v);
 thence N 62°28'05" E a distance of 89.54' (32.23v);
 thence N 27°04'23" E a distance of 131.38' (47.30v);
 thence N 66°39'21" E a distance of 85.76' (30.87v);
 thence N 18°06'54" W a distance of 82.34' (29.64v);
 thence N 07°02'47" E a distance of 72.48' (26.09v);
 thence N 26°57'30" E a distance of 116.39' (41.90v);
 thence N 56°20'50" E a distance of 57.37' (20.65v);
 thence N 44°00'00" E a distance of 43.67' (15.72v);



thence N 23°03'13" W a distance of 92.78' (33.40v);
thence N 13°17'47" W a distance of 184.17' (66.30v);
thence N 42°57'09" E a distance of 20.71' (7.46v);
thence S 89°17'51" E a distance of 26.96' (9.71v);
thence S 38°17'01" E a distance of 87.38' (31.46v);
thence S 66°46'25" E a distance of 63.31' (22.79v);
thence S 80°24'03" E a distance of 114.97' (41.39v);
thence N 18°06'14" E a distance of 115.99' (41.76v);
thence S 57°58'32" E a distance of 40.92' (14.73v);
thence N 23°18'24" E a distance of 62.56' (22.52v);
thence N 26°47'27" W a distance of 75.52' (27.19v);
thence N 78°31'45" W a distance of 83.99' (30.24v);
thence N 53°37'32" W a distance of 67.69' (24.37v);
thence N 68°49'50" E a distance of 43.61' (15.70v);
thence S 69°29'24" E a distance of 51.44' (18.52v);
thence S 71°58'21" E a distance of 47.94' (17.26v);
thence N 44°21'32" E a distance of 77.37' (27.85v);
thence N 78°18'13" E a distance of 48.78' (17.56v);
thence S 40°49'51" E a distance of 53.95' (19.42v);
thence S 22°23'57" E a distance of 43.71' (15.74v);
thence S 32°38'21" E a distance of 64.41' (23.19v);

to the **end** point, N = 13,647,471.44 , E = 3,259,066.20 from which "HGCS D 62" bears S 70°58'20" E a distance of 5,350.46' (1,926.16v).

Project Area 1 – Various Isolated Trimble and Lindsey Tracts (TPWD Islands)

Field Notes for the littoral boundary of multiple islands, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundaries are adjacent to State Tract 77 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas State Plane Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

TRACT 1A

Beginning at a point along the MHW line of West Galveston Bay, N = 13,644,554.13, E = 3,254,832.37, from which "HGCS D 62" bears N 82°48'20" E a distance of 9,365.68' (3,371.64v);

thence S 18°22'38" W along the MHW line of West Galveston Bay a distance of 20.71' (7.46v);

thence N 80°45'08" W a distance of 135.90' (48.92v);
thence N 62°38'38" W a distance of 169.63' (61.07v);
thence N 34°33'51" W a distance of 90.48' (32.57v);
thence N 75°46'10" E a distance of 39.26' (14.13v);
thence S 75°28'27" E a distance of 38.00' (13.68v);
thence S 63°53'18" E a distance of 211.01' (75.96v);
thence S 51°41'27" E a distance of 99.85' (35.95v);



which is the **point of beginning**, containing 0.5 acres.

TRACT 1B

Beginning at a point along the MHW line of West Galveston Bay, N = 13,644,983.01, E = 3,253,915.82, from which "HGCS D 62" bears N 85°49'53" E a distance of 10,235.57' (3,684.81v);
thence S 22°06'56" W along the MHW line of West Galveston Bay a distance of 27.94' (10.06v);

thence N 80°27'10" W a distance of 118.53' (42.67v);
thence N 61°11'55" W a distance of 204.97' (73.79v);
thence N 82°57'42" W a distance of 145.67' (52.44v);
thence N 46°17'28" W a distance of 166.7' (60.01v);
thence N 33°11'58" W a distance of 55.99' (20.16v);
thence N 71°52'23" W a distance of 130.21' (46.88v);
thence N 53°56'26" W a distance of 56.1' (20.2v);
thence N 44°03'00" W a distance of 80.77' (29.08v);
thence N 88°09'47" W a distance of 57.4' (20.66v);
thence N 28°19'49" W a distance of 41.38' (14.9v);
thence N 87°27'43" W a distance of 93.04' (33.49v);
thence N 49°30'54" W a distance of 102.09' (36.75v);
thence N 74°56'34" W a distance of 307.76' (110.79v);
thence N 38°03'17" E a distance of 46.72' (16.82v);
thence N 65°00'50" E a distance of 71.78' (25.84v);
thence S 80°47'21" E a distance of 87.34' (31.44v);
thence S 54°23'32" E a distance of 222.16' (79.98v);
thence S 61°58'46" E a distance of 307.48' (110.69v);
thence S 62°44'38" E a distance of 384.77' (138.52v);
thence S 56°11'49" E a distance of 198.3' (71.39v);
thence S 69°56'10" E a distance of 248.96' (89.63v);

which is the **point of beginning**, containing 1.8 acres.

TRACT 1C

Beginning at a point along the MHW line of West Galveston Bay, N = 13,646,219.08 , E = 3,253,126.44, from which "HGCS D 62" bears S 87°26'18" E a distance of 11,008.87' (3,963.19v);
thence S 01°22'12" E along the MHW line of West Galveston Bay a distance of 90.39' (32.54v);

thence S 37°43'10" W a distance of 167.65' (60.35v);
thence S 32°50'56" E a distance of 163.13' (58.73v);
thence S 56°54'10" W a distance of 45.25' (16.29v);
thence N 66°12'33" W a distance of 496.68' (178.8v);



thence N 58°57'01" W a distance of 337.74' (121.59v);
thence N 39°58'00" E a distance of 141.58' (50.97v);
thence N 60°31'29" E a distance of 148.54' (53.47v);
thence S 73°25'03" E a distance of 239.49' (86.22v);
thence S 51°12'27" W a distance of 97.59' (35.13v);
thence S 29°13'32" E a distance of 160.47' (57.77v);
thence N 36°43'32" E a distance of 314.44' (113.2v);
thence S 44°55'38" E a distance of 217.41' (78.27v);

which is the **point of beginning**, containing 1.5 acres.

Project Area 2 – TRACT 2

Field Notes for the littoral boundary of multiple tracts, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundary is adjacent to State Tract 77 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas State Plane Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

Beginning at a point along the MHW line of West Galveston Bay and uplands described in GCPR document number 2012048181, N = 13,655,195.77, E = 3,266,188.84, from which "HGCS D 62" bears S 12°18'00" W a distance of 9,691.19' 3,488.83v;

thence N 84°13'41" W along the MHW line of West Galveston Bay a distance of 113.65' (40.91v);

thence N 76°02'58" W a distance of 45.25' (16.29v);
thence N 03°39'04" W a distance of 68.14' (24.53v);
thence N 59°33'16" E a distance of 131.41' (47.31v);

thence N 36°19'44" E crossing Spanish Grant Channel a distance of 188.23' (67.76v);

thence N 50°25'35" W a distance of 165.02' (59.41v);
thence N 15°16'18" W a distance of 25.87' (9.31v);
thence N 62°23'56" E a distance of 93.37' (33.61v);
thence N 40°59'54" E a distance of 111.89' (40.28v);
thence S 43°49'49" E a distance of 156.74' (56.43v);
thence S 83°55'53" E a distance of 111.43' (40.11v);
thence N 59°31'44" E a distance of 143.48' (51.65v);
thence S 88°01'43" E a distance of 143.9' (51.8v);
thence S 79°58'04" E a distance of 240.24' (86.49v);
thence N 89°46'03" E a distance of 160.27' (57.7v);
thence S 75°14'54" E a distance of 216.75' (78.03v);
thence S 86°08'52" E a distance of 356.5' (128.34v);
thence N 86°56'19" E a distance of 108.42' (39.03v);



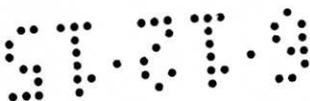
thence S 33°49'08" E a distance of 69.82' (25.14v);
thence S 53°18'33" E a distance of 67.03' (24.13v);
thence S 72°34'19" E a distance of 206.04' (74.17v);
thence S 63°08'12" E a distance of 119.9' (43.16v);
thence S 79°15'51" E a distance of 87.07' (31.35v);
thence N 29°15'58" E a distance of 72.18' (25.98v);
thence S 88°52'40" E a distance of 119.98' (43.19v);
thence S 68°41'46" E a distance of 54.91' (19.77v);
thence S 31°10'09" E a distance of 138.52' (49.87v);
thence S 45°14'37" E a distance of 130.11' (46.84v);
thence S 17°19'27" E a distance of 62.45' (22.48v);
thence S 35°33'02" E a distance of 182.01' (65.52v);
thence S 42°46'34" E a distance of 127.37' (45.85v);
thence S 41°07'24" E a distance of 79.73' (28.7v);
thence S 24°13'02" E a distance of 73.51' (26.46v);
thence S 38°44'13" E a distance of 157.08' (56.55v);
thence S 61°48'03" E a distance of 177.98' (64.07v);
thence S 73°15'30" E a distance of 123.73' (44.54v);
thence N 37°58'33" E a distance of 46.3' (16.67v);
thence N 30°02'13" W a distance of 48.77' (17.56v);
thence N 58°25'35" W a distance of 105.56' (38v);
thence N 70°18'55" W a distance of 44.92' (16.17v);
thence N 48°34'38" W a distance of 89.87' (32.35v);
thence N 10°05'41" W a distance of 122.44' (44.08v);
thence N 33°11'37" W a distance of 317.5' (114.3v);
thence N 08°58'10" W a distance of 69.25' (24.93v);
thence N 37°55'34" W a distance of 93.1' (33.52v);
thence N 08°34'49" E a distance of 56.56' (20.36v);
thence N 83°19'21" E a distance of 108.53' (39.07v);
thence S 73°11'40" E a distance of 85.57' (30.81v);
thence N 41°49'03" E a distance of 41.89' (15.08v);
thence N 06°28'33" W a distance of 91.93' (33.09v);
thence N 49°03'26" E a distance of 74.99' (27v);
thence N 20°44'44" W a distance of 38.85' (13.99v);
thence N 62°49'30" W a distance of 118.06' (42.5v);
thence N 08°27'18" E a distance of 80.4' (28.94v);
thence N 39°47'33" W a distance of 90.65' (32.63v);
thence N 12°08'48" W a distance of 87.5' (31.5v);
thence N 82°19'27" W a distance of 96.21' (34.64v);
thence N 46°42'04" W a distance of 159.81' (57.53v);
thence N 81°02'29" W a distance of 89.65' (32.27v);
thence N 63°44'39" W a distance of 263.44' (94.84v);
thence N 69°44'48" W a distance of 330.04' (118.81v);
thence N 70°25'36" W a distance of 275.75' (99.27v);



thence N 07°43'03" W a distance of 51.35' (18.49v);
thence N 07°48'43" E a distance of 62.07' (22.35v);
thence N 86°52'34" W a distance of 110.1' (39.64v);
thence N 06°59'28" W a distance of 54.95' (19.78v);
thence N 72°49'09" W a distance of 242.77' (87.4v);
thence N 36°07'08" W a distance of 134.39' (48.38v);
thence N 50°28'50" W a distance of 83.73' (30.14v);
thence N 72°03'44" W a distance of 119.03' (42.85v);
thence S 86°05'39" W a distance of 126.11' (45.4v);
thence N 74°14'00" W a distance of 76.11' (27.4v);
thence S 55°59'49" W a distance of 103.53' (37.27v);
thence S 80°01'50" W a distance of 85.14' (30.65v);
thence N 59°51'34" W a distance of 93.22' (33.56v);
thence N 72°26'10" E a distance of 62.56' (22.52v);
thence N 44°15'10" E a distance of 29.28' (10.54v);
thence N 04°51'10" E a distance of 98.57' (35.49v);
thence N 32°42'23" W a distance of 29.35' (10.57v);
thence N 67°59'15" W a distance of 41.14' (14.81v);
thence S 65°58'49" W a distance of 83.5' (30.06v);
thence N 88°19'33" W a distance of 57.5' (20.7v);
thence S 08°21'57" E a distance of 82.07' (29.55v);
thence S 33°42'07" E a distance of 137.92' (49.65v);
thence S 60°03'27" E a distance of 142.11' (51.16v);
thence S 86°58'56" W a distance of 82.82' (29.82v);
thence N 70°42'27" W a distance of 178.94' (64.42v);
thence N 74°27'47" W a distance of 255.88' (92.12v);
thence N 63°04'08" W a distance of 188.55' (67.88v);
thence N 77°31'51" W a distance of 150.57' (54.21v);
thence S 71°01'16" W a distance of 79.42' (28.59v);
thence N 66°02'13" W a distance of 80.44' (28.96v);
thence N 40°48'31" W a distance of 53.92' (19.41v);
thence S 77°56'58" E a distance of 82.48' (29.69v);
thence N 32°25'31" E a distance of 49.28' (17.74v);
thence S 85°27'16" E a distance of 120.51' (43.38v);
thence N 17°02'42" E a distance of 39.36' (14.17v);
thence N 65°37'06" E a distance of 27.78' (10v);
thence N 78°18'21" E a distance of 69.12' (24.88v);
thence S 86°40'46" E a distance of 173.85' (62.59v);
thence S 12°11'12" E a distance of 95.11' (34.24v);
thence S 76°46'05" E a distance of 77.72' (27.98v);
thence S 49°26'45" E a distance of 34.01' (12.24v);
thence S 74°29'19" E a distance of 133.75' (48.15v);
thence N 07°58'32" E a distance of 75.26' (27.09v);
thence N 62°57'38" E a distance of 37.7' (13.57v);



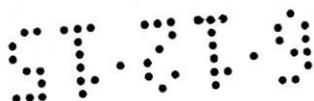
thence N 74°36'58" E a distance of 26.05' (9.38v);
thence S 65°01'25" E a distance of 27.47' (9.89v);
thence N 41°52'00" E a distance of 68.94' (24.82v);
thence N 80°23'57" E a distance of 23.68' (8.52v);
thence S 60°51'38" E a distance of 94.84' (34.14v);
thence N 85°11'42" E a distance of 44.77' (16.12v);
thence S 69°09'22" E a distance of 95.52' (34.39v);
thence S 12°22'54" E a distance of 44.87' (16.15v);
thence S 76°54'44" E a distance of 43.45' (15.64v);
thence S 68°00'55" E a distance of 65.71' (23.66v);
thence N 82°40'04" E a distance of 41.68' (15v);
thence N 05°02'38" W a distance of 23.52' (8.47v);
thence N 28°06'45" E a distance of 32.53' (11.71v);
thence N 78°25'55" E a distance of 25.63' (9.23v);
thence S 33°26'43" W a distance of 20.58' (7.41v);
thence S 46°14'35" E a distance of 55.97' (20.15v);
thence S 77°38'39" E a distance of 33.18' (11.94v);
thence N 42°08'32" E a distance of 17.03' (6.13v);
thence S 63°47'55" E a distance of 60.16' (21.66v);
thence S 75°54'06" E a distance of 64.41' (23.19v);
thence N 53°48'16" E a distance of 19.8' (7.13v);
thence S 70°17'37" E a distance of 43.71' (15.74v);
thence N 47°52'02" E a distance of 14.5' (5.22v);
thence N 10°23'31" W a distance of 33.36' (12.01v);
thence N 45°26'41" E a distance of 19.77' (7.12v);
thence S 52°49'53" E a distance of 32.94' (11.86v);
thence N 44°48'06" E a distance of 38.79' (13.96v);
thence N 87°58'01" E a distance of 64.55' (23.24v);
thence S 23°50'07" E a distance of 62.56' (22.52v);
thence S 86°51'17" E a distance of 44.83' (16.14v);
thence N 35°41'21" E a distance of 37.97' (13.67v);
thence N 88°58'48" E a distance of 15.73' (5.66v);
thence S 09°34'12" E a distance of 61.20' (22.03v);
thence S 25°57'37" W a distance of 51.86' (18.67v);
thence S 88°35'12" E a distance of 68.11' (24.52v);
thence S 70°30'22" E a distance of 79.14' (28.49v);
thence N 80°23'05" E a distance of 139.19' (50.11v);
thence S 33°04'23" E a distance of 31.24' (11.25v);
thence S 82°55'21" E a distance of 39.93' (14.37v);
thence S 12°06'23" E a distance of 44.02' (15.85v);
thence S 86°41'56" E a distance of 47.93' (17.25v);
thence S 49°42'25" E a distance of 223.66' (80.52v);
thence N 46°09'08" E a distance of 140.3' (50.51v);
thence N 21°39'19" E a distance of 37.85' (13.63v);



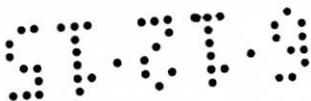
thence N 31°53'06" W a distance of 255.99' (92.16v);
thence N 13°15'16" E a distance of 334.09' (120.27v);
thence N 25°32'26" E a distance of 190.26' (68.49v);
thence N 64°08'59" E a distance of 141.39' (50.9v);
thence N 64°03'46" E a distance of 169.67' (61.08v);
thence N 66°12'11" W a distance of 102.9' (37.04v);
thence N 43°53'32" W a distance of 73.95' (26.62v);
thence N 57°21'37" W a distance of 144.93' (52.17v);
thence N 73°38'35" W a distance of 227.26' (81.81v);
thence N 47°20'07" W a distance of 154.83' (55.74v);
thence S 72°17'33" W a distance of 166.46' (59.93v);
thence S 89°47'54" W a distance of 125.03' (45.01v);
thence S 74°30'45" W a distance of 79.95' (28.78v);
thence N 65°27'42" W a distance of 106.12' (38.2v);
thence N 77°15'40" W a distance of 184.53' (66.43v);
thence N 67°12'06" W a distance of 69.24' (24.93v);
thence N 03°19'34" E a distance of 104.68' (37.68v);
thence N 73°31'40" W a distance of 89.05' (32.06v);
thence N 01°32'24" E a distance of 84.88' (30.56v);
thence N 59°03'29" E a distance of 66.94' (24.1v);
thence N 26°59'28" E a distance of 111.01' (39.96v);
thence N 83°44'53" W a distance of 29.84' (10.74v);
thence N 04°18'27" E a distance of 79.52' (28.63v);
thence S 86°13'48" E a distance of 63.11' (22.72v);
thence N 57°57'33" E a distance of 47.27' (17.02v);
thence S 43°17'22" E a distance of 57.8' (20.81v);
thence N 83°18'15" E a distance of 51.46' (18.53v);
thence N 49°40'12" E a distance of 110.14' (39.65v);
thence N 27°45'08" E a distance of 127.65' (45.95v);
thence N 10°05'59" W a distance of 66.02' (23.77v);
thence S 80°20'50" E a distance of 128.46' (46.25v);
thence S 67°55'19" E a distance of 65.37' (23.53v);
thence N 67°29'21" E a distance of 50.93' (18.33v);
thence S 59°59'32" E a distance of 49.37' (17.77v);
thence N 86°22'36" E a distance of 85.6' (30.82v);
thence S 58°00'13" E a distance of 88.74' (31.95v);
thence N 78°34'07" E a distance of 74.32' (26.76v);
thence S 74°13'58" E a distance of 155.34' (55.92v);
thence S 63°47'25" E a distance of 149.1' (53.68v);
thence S 60°43'29" E a distance of 337.85' (121.63v);
thence S 73°14'56" E a distance of 69.74' (25.11v);
thence S 32°10'17" E a distance of 97.45' (35.08v);
thence S 14°03'30" E a distance of 64.32' (23.16v);
thence S 32°03'31" E a distance of 92.71' (33.38v);



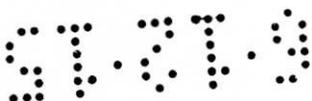
thence S 80°08'21" E a distance of 105.69' (38.05v);
thence N 38°41'25" E a distance of 79.06' (28.46v);
thence S 74°00'00" E a distance of 49.01' (17.64v);
thence N 85°19'22" E a distance of 100.69' (36.25v);
thence N 69°50'44" E a distance of 157.48' (56.69v);
thence N 81°43'34" E a distance of 78.52' (28.27v);
thence N 25°31'39" E a distance of 51.57' (18.57v);
thence N 11°36'38" W a distance of 249.55' (89.84v);
thence N 77°03'55" W a distance of 247.36' (89.05v);
thence N 00°47'47" W a distance of 159.87' (57.55v);
thence N 45°45'38" W a distance of 73.72' (26.54v);
thence N 34°47'04" W a distance of 100.88' (36.32v);
thence N 19°46'23" W a distance of 94.17' (33.9v);
thence N 13°44'31" W a distance of 209.51' (75.42v);
thence N 41°26'17" W a distance of 138.26' (49.77v);
thence N 20°24'26" W a distance of 153.23' (55.16v);
thence N 11°38'54" W a distance of 128.47' (46.25v);
thence N 14°47'56" E a distance of 196.31' (70.67v);
thence N 16°34'21" E a distance of 142.92' (51.45v);
thence N 09°56'46" W a distance of 217.37' (78.25v);
thence N 32°14'50" E a distance of 168.44' (60.64v);
thence N 45°30'36" W a distance of 100.47' (36.17v);
thence N 22°22'31" E a distance of 65.35' (23.53v);
thence S 86°08'38" E a distance of 70.18' (25.26v);
thence N 39°24'41" E a distance of 155.33' (55.92v);
thence S 79°37'21" E a distance of 57.18' (20.58v);
thence S 41°17'33" E a distance of 162.39' (58.46v);
thence S 40°41'30" E a distance of 90.14' (32.45v);
thence S 69°59'48" E a distance of 208.26' (74.97v);
thence S 33°38'05" E a distance of 157.4' (56.66v);
thence S 20°20'36" E a distance of 150.77' (54.28v);
thence S 00°02'39" E a distance of 169.42' (60.99v);
thence S 19°26'31" E a distance of 112.13' (40.37v);
thence S 07°39'03" E a distance of 243.74' (87.75v);
thence S 27°27'50" E a distance of 219.1' (78.88v);
thence S 03°37'35" E a distance of 136.45' (49.12v);
thence S 37°04'26" E a distance of 235.79' (84.88v);
thence S 24°46'16" E a distance of 215.89' (77.72v);
thence S 46°12'20" E a distance of 132.28' (47.62v);
thence S 34°21'23" E a distance of 183.03' (65.89v);
thence S 62°16'30" E a distance of 182.64' (65.75v);
thence S 66°14'54" E a distance of 106.78' (38.44v);
thence N 63°34'56" E a distance of 68.93' (24.81v);
thence S 64°33'44" E a distance of 115.36' (41.53v);



thence S 54°17'36" E a distance of 415.83' (149.7v);
thence S 78°17'07" E a distance of 163.07' (58.71v);
thence S 48°10'05" E a distance of 224.01' (80.64v);
thence S 45°48'15" E a distance of 150.52' (54.19v);
thence S 78°15'52" E a distance of 105.61' (38.02v);
thence N 80°05'30" E a distance of 162.66' (58.56v);
thence N 82°56'23" E a distance of 126.35' (45.49v);
thence N 06°46'45" W a distance of 66.97' (24.11v);
thence N 52°10'00" E a distance of 36.29' (13.06v);
thence N 83°02'21" E a distance of 61.06' (21.98v);
thence N 41°09'14" W a distance of 144.42' (51.99v);
thence N 26°42'34" W a distance of 384.35' (138.37v);
thence N 61°22'44" E a distance of 38.52' (13.87v);
thence N 27°34'53" W a distance of 349.58' (125.85v);
thence N 77°50'31" W a distance of 215.33' (77.52v);
thence N 81°27'04" W a distance of 155.39' (55.94v);
thence N 60°40'16" W a distance of 145.11' (52.24v);
thence N 53°03'49" W a distance of 80.36' (28.93v);
thence N 30°51'07" W a distance of 151.22' (54.44v);
thence N 04°45'36" W a distance of 249.88' (89.96v);
thence N 15°42'58" W a distance of 157.8' (56.81v);
thence N 10°29'48" W a distance of 78.08' (28.11v);
thence N 08°34'29" E a distance of 113.35' (40.81v);
thence N 11°35'19" W a distance of 101.64' (36.59v);
thence N 09°23'35" E a distance of 93.08' (33.51v);
thence N 17°49'10" W a distance of 117.83' (42.42v);
thence N 02°02'35" W a distance of 31.39' (11.3v);
thence N 30°48'30" E a distance of 137.07' (49.35v);
thence S 82°37'27" E a distance of 35.83' (12.9v);
thence N 56°34'10" E a distance of 182.33' (65.64v);
thence N 36°53'16" E a distance of 52.57' (18.93v);
thence N 68°46'17" E a distance of 218.84' (78.78v);
thence N 81°45'48" E a distance of 177.16' (63.78v);
thence N 79°51'29" E a distance of 154.36' (55.57v);
thence N 46°09'34" E a distance of 31.24' (11.25v);
thence N 64°55'28" W a distance of 121.66' (43.8v);
thence N 06°51'47" W a distance of 105.27' (37.9v);
thence S 89°49'52" W a distance of 169.57' (61.05v);
thence N 86°59'10" W a distance of 181.64' (65.39v);
thence N 78°12'27" W a distance of 134.86' (48.55v);
thence S 61°28'30" W a distance of 102.69' (36.97v);
thence N 84°12'38" W a distance of 72.67' (26.16v);
thence S 79°42'09" W a distance of 150.26' (54.09v);
thence N 85°45'19" W a distance of 26.21' (9.44v);



thence N 50°14'21" W a distance of 164.5' (59.22v);
thence N 41°15'33" W a distance of 114.42' (41.19v);
thence N 86°36'09" W a distance of 135.66' (48.84v);
thence N 46°55'35" W a distance of 132.63' (47.75v);
thence N 36°43'55" W a distance of 100.16' (36.06v);
thence N 05°19'03" E a distance of 76.45' (27.52v);
thence N 74°01'46" E a distance of 166.17' (59.82v);
thence N 60°10'33" W a distance of 89.46' (32.21v);
thence N 89°02'45" W a distance of 90.09' (32.43v);
thence S 44°38'37" W a distance of 50.13' (18.05v);
thence N 70°09'15" W a distance of 132.7' (47.77v);
thence N 69°26'06" W a distance of 133.4' (48.02v);
thence N 13°28'33" W a distance of 42.94' (15.46v);
thence N 45°09'43" E a distance of 53.5' (19.26v);
thence S 69°45'30" E a distance of 48.12' (17.32v);
thence S 43°05'57" E a distance of 134.91' (48.57v);
thence N 83°50'46" E a distance of 153.27' (55.18v);
thence N 77°50'14" E a distance of 97.25' (35.01v);
thence S 60°16'50" E a distance of 64.25' (23.13v);
thence S 46°47'23" E a distance of 90.13' (32.45v);
thence S 84°56'29" E a distance of 211.97' (76.31v);
thence N 50°20'13" W a distance of 166.53' (59.95v);
thence N 52°38'46" E a distance of 17.08' (6.15v);
thence S 57°37'58" E a distance of 148.48' (53.45v);
thence S 25°28'40" E a distance of 80.83' (29.1v);
thence S 81°42'26" E a distance of 322.12' (115.96v);
thence N 50°54'43" E a distance of 239.17' (86.1v);
thence S 64°29'43" E a distance of 126.5' (45.54v);
thence N 06°41'39" E a distance of 145.32' (52.32v);
thence N 42°11'51" W a distance of 68' (24.48v);
thence S 80°41'57" W a distance of 77.1' (27.76v);
thence N 32°49'10" W a distance of 151.92' (54.69v);
thence N 34°01'18" W a distance of 94.29' (33.94v);
thence N 14°20'49" E a distance of 145.77' (52.48v);
thence N 47°43'27" W a distance of 164.87' (59.35v);
thence N 09°55'33" E a distance of 93.21' (33.56v);
thence N 48°37'11" E a distance of 250.25' (90.09v);
thence N 71°59'13" E a distance of 183.94' (66.22v);
thence N 15°01'48" W a distance of 101.77' (36.64v);
thence N 61°41'17" W a distance of 148.04' (53.29v);
thence N 36°02'06" W a distance of 227.46' (81.89v);
thence N 25°22'39" W a distance of 176.71' (63.62v);
thence N 29°02'00" W a distance of 91.3' (32.87v);
thence N 39°20'33" E a distance of 197.4' (71.06v);



thence S 77°45'34" E a distance of 118.58' (42.69v);
thence N 73°18'34" E a distance of 95.26' (34.29v);
thence S 72°15'31" E a distance of 47.55' (17.12v);
thence S 41°10'58" E a distance of 60.36' (21.73v);
thence S 31°44'55" E a distance of 133.64' (48.11v);
thence S 47°05'39" E a distance of 169.57' (61.05v);
thence S 51°45'44" E a distance of 206.78' (74.44v);
thence S 63°01'45" E a distance of 178.42' (64.23v);
thence S 39°34'51" E a distance of 150.09' (54.03v);
thence S 72°40'41" E a distance of 154.43' (55.59v);
thence S 80°01'53" E a distance of 127.38' (45.86v);
thence S 12°46'14" W a distance of 65.33' (23.52v);
thence S 34°22'07" W a distance of 166.45' (59.92v);
thence S 39°07'38" W a distance of 117.37' (42.25v);
thence S 21°31'07" W a distance of 154.88' (55.76v);
thence S 06°44'21" E a distance of 72.72' (26.18v);
thence S 32°23'38" E a distance of 133.39' (48.02v);
thence S 19°22'32" E a distance of 117.46' (42.29v);
thence S 68°29'30" E a distance of 207.84' (74.82v);
thence S 83°22'08" E a distance of 115.69' (41.65v);
thence S 59°09'43" E a distance of 203.76' (73.35v);

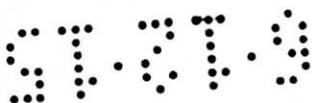
to the **end** point along the southwestern shoreline of Gangs Bayou, N = 13,660,756.10, E = 3,272,731.20, from which "HGCS D 62" bears S 29°47'57" W a distance of 17,319.10' (6,234.88v).

Project Area 2 – TRACT 3

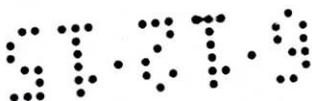
Field Notes for the littoral boundary of multiple tracts, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundary is adjacent to State Tract 77 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas State Plane Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

Beginning at a point along the MHW line of West Galveston Bay on the northwest bank of Gangs Bayou and uplands described in GCPR document number 2007008834, N = 13,661,084.79, E = 3,273,406.78, from which "HGCS D 62" bears S 31°08'58" W a distance of 17,945.05' (6,460.22v);

thence N 36°56'52" E a distance of 160.43' (57.75v);
thence N 01°27'49" W a distance of 92.24' (33.21v);
thence N 20°08'59" W a distance of 57.5' (20.70v);
thence N 02°27'32" W a distance of 89.88' (32.36v);
thence N 30°50'47" W a distance of 89.08' (32.07v);
thence N 00°35'32" W a distance of 147.24' (53.01v);
thence N 27°02'44" W a distance of 97.48' (35.09v);



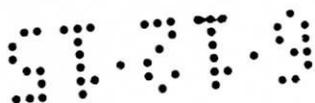
thence N 75°00'25" W a distance of 114.57' (41.25v);
thence N 77°25'06" W a distance of 131.29' (47.26v);
thence S 79°26'43" W a distance of 134.85' (48.55v);
thence S 77°51'46" W a distance of 149.39' (53.78v);
thence N 71°17'56" W a distance of 91.94' (33.1v);
thence N 42°33'41" W a distance of 88.36' (31.81v);
thence N 22°45'48" W a distance of 94.9' (34.16v);
thence N 08°50'08" W a distance of 74.02' (26.65v);
thence N 59°38'22" W a distance of 213.56' (76.88v);
thence N 32°23'36" W a distance of 23.61' (8.5v);
thence S 58°48'01" W a distance of 77.31' (27.83v);
thence S 25°15'13" W a distance of 92.38' (33.26v);
thence N 53°01'23" W a distance of 101.85' (36.67v);
thence N 38°20'08" W a distance of 193.49' (69.66v);
thence N 28°43'00" W a distance of 132.44' (47.68v);
thence N 14°39'35" E a distance of 21.13' (7.61v);
thence N 58°43'24" W a distance of 106.19' (38.23v);
thence N 62°15'52" W a distance of 202.69' (72.97v);
thence N 54°04'27" E a distance of 89.58' (32.25v);
thence N 67°57'34" E a distance of 115.25' (41.49v);
thence N 89°55'47" E a distance of 48.99' (17.64v);
thence N 24°41'26" E a distance of 78.2' (28.15v);
thence N 64°39'51" W a distance of 107.89' (38.84v);
thence N 26°50'23" E a distance of 122.07' (43.95v);
thence N 00°58'11" E a distance of 84.97' (30.59v);
thence N 63°05'12" W a distance of 89.98' (32.39v);
thence S 41°53'08" W a distance of 80.45' (28.96v);
thence S 81°28'27" W a distance of 116.49' (41.94v);
thence S 25°24'27" W a distance of 75.49' (27.18v);
thence S 06°48'42" W a distance of 40.86' (14.71v);
thence S 60°11'56" W a distance of 76.44' (27.52v);
thence S 85°09'55" W a distance of 37.37' (13.45v);
thence S 04°48'23" W a distance of 41.3' (14.87v);
thence S 83°32'47" E a distance of 39.06' (14.06v);
thence S 17°00'11" E a distance of 53.64' (19.31v);
thence N 58°37'50" W a distance of 66.53' (23.95v);
thence S 59°46'22" W a distance of 52.92' (19.05v);
thence N 80°52'02" W a distance of 50.09' (18.03v);
thence N 62°56'15" W a distance of 35.65' (12.83v);
thence S 84°08'04" W a distance of 48.04' (17.29v);
thence N 51°49'38" W a distance of 99.44' (35.8v);
thence N 72°35'30" W a distance of 40.28' (14.5v);
thence S 53°09'11" W a distance of 33.93' (12.21v);
thence N 47°44'58" W a distance of 68.35' (24.61v);



thence N 15°36'35" W a distance of 80.44' (28.96v);
 thence N 69°10'37" E a distance of 64.22' (23.12v);
 thence N 57°50'18" E a distance of 78.84' (28.38v);
 thence S 83°52'44" E a distance of 64.9' (23.36v);
 thence N 08°40'55" E a distance of 20.42' (7.35v);
 thence N 52°02'37" W a distance of 86.58' (31.17v);
 thence N 05°17'38" W a distance of 116.6' (41.98v);
 thence S 76°54'46" E a distance of 140.75' (50.67v);
 thence S 87°28'16" E a distance of 59.38' (21.38v);
 thence N 15°11'18" W a distance of 55.22' (19.88v);
 thence N 72°36'09" W a distance of 153.68' (55.32v);
 thence S 76°37'32" W a distance of 42.89' (15.44v);
 thence S 47°42'44" W a distance of 41.14' (14.81v);
 thence S 14°01'41" W a distance of 78.61' (28.3v);
 thence S 77°01'54" W a distance of 34.45' (12.4v);
 thence N 63°12'48" W a distance of 93.46' (33.65v);
 thence N 88°57'14" W a distance of 26.84' (9.66v);
 thence S 43°56'02" W a distance of 67.08' (24.15v);
 thence N 86°00'21" W a distance of 64.17' (23.1v);
 thence N 62°18'43" W a distance of 77.58' (27.93v);
 thence N 75°46'40" W a distance of 81.77' (29.44v);
 thence N 64°23'17" W a distance of 81.78' (29.44v);
 thence N 67°01'31" W a distance of 175.88' (63.32v);
 thence N 57°08'10" W a distance of 78.52' (28.27v);
 thence S 57°01'20" W a distance of 114.86' (41.35v);
 thence S 67°58'27" W a distance of 123.38' (44.42v);
 thence S 70°13'55" W a distance of 139.68' (50.28v);
 thence N 39°38'28" W a distance of 109.6' (39.46v);
 thence N 22°21'40" E a distance of 97.25' (35.01v);
 thence N 62°46'32" W a distance of 78.54' (28.27v);
 thence N 86°14'04" W a distance of 123.49' (44.46v);
 thence S 61°02'53" W a distance of 85.63' (30.83v);
 thence S 28°27'43" W a distance of 93.47' (33.65v);
 thence S 04°46'52" W a distance of 129.05' (46.46v);
 thence S 26°03'18" W a distance of 51.54' (18.55v);
 thence S 86°48'04" W a distance of 51.43' (18.51v);
 thence N 28°45'12" W a distance of 75.15' (27.05v);

to the end point, N = 13,663,066.79, E = 3,269,821.58, from which "HGCS D 62" bears S 18°11'20" W a distance of 18,251.73' (6,570.62v).

**Project Area 2 – Various Isolated Trimble and Lindsey Tracts
(private islands TRACT 2A-TRACT 2M)**



Field Notes for the littoral boundary of multiple tracts, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundaries are adjacent to State Tract 77 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas State Plane Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

TRACT 2A

Beginning at a point along the MHW line of West Galveston Bay, N = 13,658,387.02, E = 3,266,171.77, from which "HGCS D 62" bears S 09°11'12" W a distance of 12,824.48' (4,616.81v);

thence N 28°21'24" W along MHW line of West Galveston Bay a distance of 61.28' (22.06v);

thence N 15°02'37" E a distance of 92.46' (33.29v);

thence S 38°53'02" E a distance of 28.76' (10.35v);

thence N 51°15'23" E a distance of 35.44' (12.76v);

thence N 04°49'08" W a distance of 55.57' (20.01v);

thence N 14°32'51" E a distance of 65.94' (23.74v);

thence S 58°28'07" E a distance of 25.37' (9.13v);

thence S 06°09'51" E a distance of 45.62' (16.42v);

thence S 13°59'03" W a distance of 126.42' (45.51v);

thence S 24°03'09" E a distance of 47.13' (16.97v);

thence S 60°46'07" W a distance of 77.55' (27.92v);

which is the **point of beginning**, containing 0.3 acres.

TRACT 2B

Beginning at a point along the MHW line of West Galveston Bay, N = 13,658,910.96, E = 3,266,420.87, from which "HGCS D 62" bears S 09°52'53" W a distance of 13,382.45' (4,817.68v);

thence N 63°17'49" W along MHW line of West Galveston Bay a distance of 19.14' (6.89v);

thence N 28°15'16" W a distance of 8.89' (3.2v);

thence N 38°35'38" E a distance of 29.89' (10.76v);

thence N 49°26'35" E a distance of 50.38' (18.14v);

thence S 53°48'30" E a distance of 22.25' (8.01v);

thence S 00°58'52" W a distance of 24.99' (9v);

thence S 45°01'12" W a distance of 28.24' (10.17v);

thence S 66°26'59" W a distance of 36.19' (13.03v);

which is the **point of beginning**, containing 0.1 acres

TRACT 2C



Beginning at a point along the MHW line of West Galveston Bay, N = 13,658,966.59 , E = 3,266,551.83, from which "HGCS D 62" bears S 10°23'24" W a distance of 13,460.26' (4,845.69v);

thence N 68°39'47" W along MHW line of West Galveston Bay a distance of 61.45' (22.12v);

thence N 06°10'36" E a distance of 20.79' (7.48v);
thence N 52°08'44" E a distance of 44.98' (16.19v);
thence S 61°12'51" E a distance of 34.99' (12.6v);
thence S 02°59'54" W a distance of 16.63' (5.99v);
thence N 73°37'01" E a distance of 138.31' (49.79v);
thence S 42°06'04" W a distance of 53.04' (19.09v);
thence S 07°44'29" E a distance of 15.11' (5.44v);
thence S 67°25'55" W a distance of 24.23' (8.72v);
thence S 81°47'39" W a distance of 88' (31.68v);

which is the **point of beginning**, containing 0.2 acres.

TRACT 2D

Beginning at a point along the MHW line of West Galveston Bay, N = 13,659,292.44 , E = 3,266,889.23, from which "HGCS D 62" bears S 11°31'13" W a distance of 13,844.31' (4,983.95v);

thence N 14°42'11" W along MHW line of West Galveston Bay a distance of 62.61' (22.54v);

thence N 51°14'05" W a distance of 60.69' (21.85v);
thence N 84°23'44" W a distance of 68.5' (24.66v);
thence S 84°00'08" W a distance of 84.98' (30.59v);
thence N 85°12'06" W a distance of 54.16' (19.5v);
thence N 46°37'03" W a distance of 50.85' (18.31v);
thence N 86°30'02" W a distance of 54.56' (19.64v);
thence N 43°03'00" W a distance of 25.64' (9.23v);
thence N 74°40'09" E a distance of 26.97' (9.71v);
thence S 79°02'59" E a distance of 58.54' (21.07v);
thence S 47°52'47" E a distance of 44.49' (16.02v);
thence S 87°23'01" E a distance of 89.6' (32.26v);
thence N 71°30'13" E a distance of 47.98' (17.27v);
thence N 42°08'40" E a distance of 50.36' (18.13v);
thence N 14°45'32" W a distance of 57.37' (20.65v);
thence N 22°32'46" E a distance of 55.37' (19.93v);
thence N 81°18'47" E a distance of 83.09' (29.91v);
thence N 46°49'29" E a distance of 47.1' (16.96v);
thence N 73°36'33" W a distance of 49.4' (17.78v);
thence N 49°22'47" E a distance of 66.23' (23.84v);
thence N 20°41'24" E a distance of 68.54' (24.67v);



thence N 67°12'53" E a distance of 60.73' (21.86v);
 thence N 48°27'38" E a distance of 60.2' (21.67v);
 thence N 69°41'07" E a distance of 197.31' (71.03v);
 thence S 82°45'45" E a distance of 25.32' (9.12v);
 thence S 41°04'02" E a distance of 21.06' (7.58v);
 thence N 86°53'58" E a distance of 25.33' (9.12v);
 thence N 60°42'25" E a distance of 57.76' (20.79v);
 thence S 80°28'23" E a distance of 52.87' (19.03v);
 thence S 69°36'23" E a distance of 30.19' (10.87v);
 thence N 12°16'43" E a distance of 33.99' (12.24v);
 thence N 75°55'38" E a distance of 45.57' (16.41v);
 thence S 82°57'02" E a distance of 66.82' (24.06v);
 thence S 64°05'36" W a distance of 17.28' (6.22v);
 thence S 85°47'02" W a distance of 77.12' (27.76v);
 thence S 34°18'53" W a distance of 48.45' (17.44v);
 thence N 82°27'30" W a distance of 36.5' (13.14v);
 thence S 77°01'35" W a distance of 104.19' (37.51v);
 thence S 43°45'22" W a distance of 55.24' (19.89v);
 thence S 55°51'14" W a distance of 110.56' (39.8v);
 thence S 87°16'53" W a distance of 34.79' (12.52v);
 thence S 55°54'23" W a distance of 32.45' (11.68v);
 thence S 15°16'40" W a distance of 65.14' (23.45v);
 thence N 57°01'56" W a distance of 60.9' (21.92v);
 thence S 78°57'42" W a distance of 33.58' (12.09v);
 thence S 18°31'47" W a distance of 88.94' (32.02v);
 thence S 78°28'58" W a distance of 52.54' (18.91v);
 thence S 34°50'12" W a distance of 49.21' (17.72v);
 thence S 27°56'58" E a distance of 56.13' (20.21v);
 thence S 21°47'05" W a distance of 54' (19.44v);
 thence S 32°46'17" E a distance of 21.12' (7.6v);
 thence S 01°48'20" E a distance of 57.42' (20.67v);
 thence S 41°10'56" W a distance of 17.99' (6.48v);
 thence S 06°40'15" E a distance of 31.7' (11.41v);
 thence S 24°45'41" W a distance of 21.54' (7.75v);

which is the **point of beginning**, containing 1.9 acres

TRACT 2E

Beginning at a point along the MHW line of West Galveston Bay, N = 13,659,945.28 , E = 3,268,026.04, from which "HGCS D 62" bears S 15°20'43" W a distance of 14,743.87' (5,307.79v);

thence N 86°03'49" W along MHW line of West Galveston Bay a distance of 44.28' (15.94v);



thence N 23°28'36" E a distance of 54.27' (19.54v);
thence N 66°10'37" E a distance of 53.03' (19.09v);
thence N 55°40'46" E a distance of 49.2' (17.71v);
thence N 71°19'32" E a distance of 101.16' (36.42v);
thence N 46°30'26" E a distance of 35.41' (12.75v);
thence N 38°59'25" E a distance of 54.15' (19.49v);
thence N 58°33'56" E a distance of 31.96' (11.51v);
thence N 42°30'55" E a distance of 87.89' (31.64v);
thence N 70°27'10" E a distance of 62.38' (22.46v);
thence N 33°15'06" E a distance of 32.78' (11.8v);
thence N 58°24'08" E a distance of 62.81' (22.61v);
thence N 81°56'05" E a distance of 88.95' (32.02v);
thence N 58°32'15" E a distance of 25.5' (9.18v);
thence S 73°54'19" E a distance of 29.43' (10.59v);
thence N 63°29'03" E a distance of 31.16' (11.22v);
thence S 84°34'08" E a distance of 78.92' (28.41v);
thence S 86°14'35" E a distance of 157.2' (56.59v);
thence N 79°51'53" E a distance of 46.71' (16.82v);
thence S 77°24'58" E a distance of 80.6' (29.02v);
thence S 46°28'34" E a distance of 20.29' (7.3v);
thence S 71°41'35" E a distance of 43.3' (15.59v);
thence S 55°27'20" E a distance of 49.4' (17.78v);
thence S 18°24'39" E a distance of 71.99' (25.92v);
thence S 80°17'56" W a distance of 44.21' (15.92v);
thence S 51°29'56" W a distance of 58.33' (21v);
thence S 74°45'59" W a distance of 45.75' (16.47v);
thence S 50°52'48" W a distance of 178.68' (64.32v);
thence S 79°20'46" W a distance of 112.67' (40.56v);
thence N 36°48'39" W a distance of 77.67' (27.96v);
thence N 62°06'45" W a distance of 147.05' (52.94v);
thence N 38°47'13" W a distance of 54.2' (19.51v);
thence N 71°10'14" W a distance of 150.39' (54.14v);
thence S 41°53'46" W a distance of 54.26' (19.53v);
thence S 48°57'03" W a distance of 117.83' (42.42v);
thence S 58°01'08" W a distance of 62.55' (22.52v);
thence S 64°42'03" W a distance of 66.57' (23.97v);
thence S 70°09'35" W a distance of 54.57' (19.65v);
thence S 37°00'22" W a distance of 98.35' (35.41v);

which is the **point of beginning**, containing 3.7 acres.



TRACT 2F

Beginning at a point along the MHW line of West Galveston Bay, N = 13,659,254.00, E = 3,268,559.79, from which "HGCS D 62" bears S 18°09'15" W a distance of 14,235.59' (5,124.81v);

thence N 30°06'16" W along MHW line of West Galveston Bay a distance of 79.18' (28.5v);

thence N 50°01'39" W a distance of 41.33' (14.88v);
thence N 10°07'14" E a distance of 87.26' (31.41v);
thence N 84°04'10" W a distance of 14.81' (5.33v);
thence N 12°09'00" E a distance of 46.15' (16.61v);
thence N 33°26'29" W a distance of 50.74' (18.27v);
thence N 10°10'24" W a distance of 44.64' (16.07v);
thence N 28°29'13" W a distance of 71.05' (25.58v);
thence N 14°00'09" W a distance of 69.15' (24.89v);
thence N 72°33'12" E a distance of 33.42' (12.03v);
thence S 63°54'08" E a distance of 65.47' (23.57v);
thence S 22°45'21" E a distance of 70.23' (25.28v);
thence S 04°26'18" E a distance of 56.92' (20.49v);
thence S 04°28'34" W a distance of 77.09' (27.75v);
thence S 08°12'46" E a distance of 39.75' (14.31v);
thence S 22°04'01" E a distance of 92.19' (33.19v);
thence S 10°33'32" E a distance of 67.4' (24.26v);
thence S 31°12'38" W a distance of 41.22' (14.84v);

which is the **point of beginning**, containing 0.6 acres.

TRACT 2G

Beginning at a point along the MHW line of West Galveston Bay, N = 13,661,053.98, E = 3,269,190.29, from which "HGCS D 62" bears S 18°17'25" W a distance of 16,142.47' (5,811.29v);

thence N 40°51'15" W along MHW line of West Galveston Bay a distance of 40.52' (14.59v);

thence N 62°14'26" W a distance of 30.42' (10.95v);
thence N 44°01'27" W a distance of 20.05' (7.22v);
thence N 30°22'00" W a distance of 58.99' (21.24v);
thence N 35°25'13" E a distance of 59.96' (21.59v);
thence S 42°29'11" E a distance of 34.39' (12.38v);
thence S 19°57'58" E a distance of 51.2' (18.43v);
thence S 78°24'43" E a distance of 52.32' (18.84v);
thence S 59°26'16" E a distance of 56.56' (20.36v);
thence S 43°26'04" E a distance of 47.29' (17.02v);
thence N 86°55'28" E a distance of 53.31' (19.19v);
thence S 35°02'09" E a distance of 19.28' (6.94v);



thence S 79°34'09" E a distance of 115.94' (41.74v);
 thence S 71°59'06" E a distance of 87.37' (31.45v);
 thence S 53°09'57" E a distance of 102.45' (36.88v);
 thence S 65°46'07" E a distance of 139.93' (50.37v);
 thence S 61°18'29" E a distance of 115.21' (41.48v);
 thence N 84°28'58" E a distance of 62.62' (22.54v);
 thence N 44°10'18" E a distance of 19.91' (7.17v);
 thence S 67°14'18" E a distance of 9.02' (3.25v);
 thence S 10°53'38" W a distance of 47' (16.92v);
 thence S 14°08'34" E a distance of 59.7' (21.49v);
 thence N 68°01'35" W a distance of 52.44' (18.88v);
 thence N 56°03'01" W a distance of 49.46' (17.81v);
 thence N 67°35'22" W a distance of 51.78' (18.64v);
 thence N 51°57'49" W a distance of 48.09' (17.31v);
 thence N 56°51'38" W a distance of 47.34' (17.04v);
 thence N 57°16'04" W a distance of 50.73' (18.26v);
 thence N 55°51'51" W a distance of 58.33' (21v);
 thence N 66°34'24" W a distance of 26.71' (9.62v);
 thence N 33°00'19" W a distance of 27.15' (9.77v);
 thence S 86°57'56" W a distance of 23.8' (8.57v);
 thence N 67°04'57" W a distance of 41.6' (14.98v);
 thence N 67°34'02" W a distance of 53.25' (19.17v);
 thence N 80°27'42" W a distance of 48.22' (17.36v);
 thence N 63°28'35" W a distance of 42.05' (15.14v);
 thence N 78°34'16" W a distance of 51.02' (18.37v);
 thence N 75°44'44" W a distance of 98.08' (35.31v);
 thence S 82°24'43" W a distance of 43.32' (15.6v);
 thence N 84°57'58" W a distance of 43.42' (15.63v);

which is the **point of beginning**, containing 0.8 acres.

TRACT 2H

Beginning at a point along the MHW line of West Galveston Bay, N = 13,661,236.42, E = 3,268,935.21, from which "HGCS D 62" bears S 17°14'01" W a distance of 16,238.40' (5845.82v);

thence N 33°29'06" E along MHW line of West Galveston Bay a distance of 73.95' (26.62v);

thence N 25°31'01" E a distance of 74.66' (26.88v);
 thence N 34°16'08" E a distance of 46.35' (16.69v);
 thence N 49°16'00" E a distance of 31.28' (11.26v);
 thence N 25°53'20" E a distance of 62.16' (22.38v);
 thence N 20°21'09" E a distance of 61.18' (22.02v);
 thence N 34°25'03" E a distance of 55.81' (20.09v);



thence N 20°37'18" E a distance of 53.03' (19.09v);
thence N 34°17'10" E a distance of 24.67' (8.88v);
thence N 06°34'27" E a distance of 108.65' (39.11v);
thence N 04°09'11" W a distance of 52.35' (18.85v);
thence N 02°39'52" E a distance of 23.84' (8.58v);
thence N 24°28'12" W a distance of 78.37' (28.21v);
thence N 21°41'41" W a distance of 29.43' (10.59v);
thence N 36°20'05" W a distance of 109.29' (39.34v);
thence N 29°51'23" W a distance of 49.03' (17.65v);
thence N 44°57'31" W a distance of 23.56' (8.48v);
thence N 09°01'49" W a distance of 54.16' (19.5v);
thence N 40°27'19" W a distance of 41.42' (14.91v);
thence N 40°28'24" W a distance of 45.75' (16.47v);
thence N 55°12'01" W a distance of 36.87' (13.27v);
thence N 08°19'51" W a distance of 26.36' (9.49v);
thence N 75°12'32" E a distance of 43.6' (15.7v);
thence S 89°45'57" E a distance of 78.34' (28.2v);
thence N 69°36'58" E a distance of 51.48' (18.53v);
thence S 13°10'38" E a distance of 39.24' (14.13v);
thence S 09°04'44" E a distance of 32.04' (11.53v);
thence S 43°52'06" W a distance of 28.03' (10.09v);
thence S 22°31'17" W a distance of 34.13' (12.29v);
thence S 31°26'00" W a distance of 40.19' (14.47v);
thence S 36°41'59" E a distance of 48.77' (17.56v);
thence S 45°14'59" E a distance of 27.91' (10.05v);
thence S 87°50'22" E a distance of 75.6' (27.22v);
thence S 41°47'31" E a distance of 71.14' (25.61v);
thence S 28°12'30" W a distance of 29.41' (10.59v);
thence S 28°46'37" E a distance of 65.15' (23.45v);
thence S 28°02'36" W a distance of 47.22' (17v);
thence S 02°54'09" E a distance of 60' (21.6v);
thence S 16°56'42" E a distance of 26.57' (9.57v);
thence S 18°18'19" W a distance of 53.96' (19.43v);
thence S 07°30'25" E a distance of 38' (13.68v);
thence S 37°33'53" E a distance of 26.68' (9.6v);
thence S 26°23'15" W a distance of 60.92' (21.93v);
thence S 09°45'35" W a distance of 49.15' (17.69v);
thence S 60°17'14" W a distance of 81.59' (29.37v);
thence S 20°07'15" W a distance of 120.85' (43.51v);
thence S 41°32'31" W a distance of 47.06' (16.94v);
thence S 60°05'04" W a distance of 39.92' (14.37v);
thence S 06°14'19" W a distance of 66.07' (23.79v);
thence S 47°17'14" W a distance of 93.41' (33.63v);
thence S 59°48'53" W a distance of 21.76' (7.83v);



which is the **point of beginning**, containing 1.6 acres.

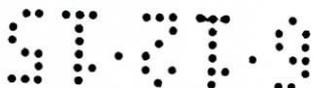
TRACT 2i

Beginning at a point along the MHW line of West Galveston Bay, N = 13,661,927.91, E = 3,268,346.30, from which "HGCS D 62" bears S 14°36'24" W a distance of 16,741.96' (6,027.11v);

thence N 85°28'47" W along MHW line of West Galveston Bay a distance of 58.24' (20.97v);

thence S 78°12'31" W a distance of 137.76' (49.59v);
thence N 86°26'13" W a distance of 53.9' (19.4v);
thence S 51°11'59" W a distance of 52.03' (18.73v);
thence S 87°04'16" W a distance of 74.96' (26.99v);
thence S 69°36'09" W a distance of 107.14' (38.57v);
thence S 70°07'58" W a distance of 209.95' (75.58v);
thence S 59°48'18" W a distance of 238.44' (85.84v);
thence S 36°01'20" W a distance of 133.53' (48.07v);
thence N 32°59'00" W a distance of 67.71' (24.38v);
thence N 31°18'34" E a distance of 40.65' (14.63v);
thence N 11°11'17" W a distance of 87.63' (31.55v);
thence N 37°19'57" E a distance of 126.61' (45.58v);
thence N 76°30'42" E a distance of 51.15' (18.41v);
thence N 66°07'34" E a distance of 82.87' (29.83v);
thence N 63°10'57" E a distance of 120.82' (43.5v);
thence N 42°40'50" E a distance of 57.13' (20.57v);
thence N 32°36'47" E a distance of 122.64' (44.15v);
thence N 18°50'41" E a distance of 72.2' (25.99v);
thence S 63°14'18" E a distance of 166.56' (59.96v);
thence S 86°31'51" E a distance of 80.32' (28.92v);
thence S 89°32'07" E a distance of 91.24' (32.85v);
thence N 74°57'51" E a distance of 120.23' (43.28v);
thence N 55°52'06" E a distance of 138.8' (49.97v);
thence N 66°01'44" E a distance of 40.27' (14.5v);
thence N 58°32'01" E a distance of 77.45' (27.88v);
thence N 70°23'54" E a distance of 102.66' (36.96v);
thence S 26°25'29" W a distance of 83.69' (30.13v);
thence S 51°58'28" W a distance of 80.34' (28.92v);
thence S 10°03'09" W a distance of 97.72' (35.18v);
thence S 36°23'43" W a distance of 100.37' (36.13v);
thence S 64°04'01" W a distance of 38.35' (13.81v);

which is the **point of beginning**, containing 4.9 acres.



TRACT 2J

Beginning at a point along the MHW line of West Galveston Bay, N = 13,662,761.69, E = 3,269,493.33, from which "HGCS D 62" bears S 17°29'38" W a distance of 17,860.73' (6,429.86v);

thence N 77°15'05" W along MHW line of West Galveston Bay a distance of 41.92' (15.09v);

- thence N 45°17'34" E a distance of 23.38' (8.42v);
- thence N 31°09'31" W a distance of 38.33' (13.8v);
- thence N 25°44'42" E a distance of 24.31' (8.75v);
- thence N 69°25'00" E a distance of 58.82' (21.18v);
- thence S 51°49'02" E a distance of 26.45' (9.52v);
- thence N 55°38'30" E a distance of 76.99' (27.72v);
- thence S 67°18'19" E a distance of 38.8' (13.97v);
- thence N 67°27'18" E a distance of 39.38' (14.18v);
- thence N 28°24'20" E a distance of 72.29' (26.02v);
- thence N 53°14'11" E a distance of 24.91' (8.97v);
- thence S 19°34'59" E a distance of 17.08' (6.15v);
- thence S 17°51'16" W a distance of 35.92' (12.93v);
- thence S 49°42'27" W a distance of 21.7' (7.81v);
- thence S 01°49'15" E a distance of 22.47' (8.09v);
- thence S 54°28'03" W a distance of 71.27' (25.66v);
- thence S 44°09'22" W a distance of 69.91' (25.17v);
- thence S 66°24'32" W a distance of 27.16' (9.78v);
- thence N 54°04'23" W a distance of 41.76' (15.03v);
- thence S 36°06'40" W a distance of 39.18' (14.1v);
- thence S 65°22'31" W a distance of 25.06' (9.02v);

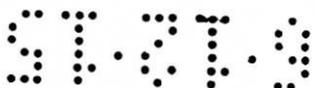
which is the **point of beginning**, containing 0.4 acres.

TRACT 2K

Beginning at a point along the MHW line of West Galveston Bay, N = 13,662,282.08, E = 3,270,056.39, from which "HGCS D 62" bears S 19°42'50" W a distance of 17,585.76' (6330.87v);

thence N 02°04'51" W along MHW line of West Galveston Bay a distance of 27.13' (9.77v);

- thence N 26°41'49" E a distance of 79.57' (28.65v);
- thence N 18°49'09" E a distance of 34.98' (12.59v);
- thence N 35°32'49" W a distance of 18.02' (6.49v);
- thence N 46°48'32" E a distance of 19.58' (7.05v);
- thence N 06°06'22" E a distance of 65.72' (23.66v);
- thence S 60°44'12" E a distance of 15.47' (5.57v);
- thence S 35°58'42" E a distance of 27.61' (9.94v);
- thence S 42°50'19" W a distance of 20.01' (7.2v);



thence S 04°55'33" E a distance of 22.37' (8.05v);
thence S 43°48'47" E a distance of 28.37' (10.21v);
thence S 12°42'27" W a distance of 49.41' (17.79v);
thence S 20°31'22" W a distance of 44.53' (16.03v);
thence S 43°17'50" W a distance of 40.77' (14.68v);
thence S 58°10'51" W a distance of 33.91' (12.21v);
thence N 89°41'40" W a distance of 11.25' (4.05v);

which is the **point of beginning**, containing 0.2 acres.

TRACT 2L

Beginning at a point along the MHW line of West Galveston Bay, N = 13,662,945.99, E = 3,270,484.59, from which "HGCS D 62" bears S 20°16'23" W a distance of 18,356.07' (6,608.19v);

thence N 87°58'37" W along MHW line of West Galveston Bay a distance of 81.87' (29.47v);

thence N 48°15'30" E a distance of 18.55' (6.68v);
thence N 65°25'06" E a distance of 100.29' (36.1v);
thence N 78°30'26" E a distance of 39.1' (14.08v);
thence S 11°11'34" E a distance of 10.55' (3.8v);
thence S 03°22'57" E a distance of 45.76' (16.47v);
thence S 15°32'53" E a distance of 29.8' (10.73v);
thence S 54°39'48" W a distance of 24.67' (8.88v);
thence N 57°40'39" W a distance of 64.08' (23.07v);

which is the **point of beginning**, containing 0.2 acres

TRACT 2M

Beginning at a point along the MHW line of West Galveston Bay, N = 13,662,432.97, E = 3,271,086.58, from which "HGCS D 62" bears S 22°37'27" W a distance of 18,098.65' (6,515.51v);

thence N 30°39'01" W along MHW line of West Galveston Bay a distance of 28.05' (10.1v);

thence N 24°08'56" E a distance of 21.87' (7.87v);
thence N 65°18'13" W a distance of 120.46' (43.37v);
thence N 44°11'24" W a distance of 89.83' (32.34v);
thence N 66°01'15" W a distance of 144.56' (52.04v);
thence N 63°30'47" W a distance of 139.28' (50.14v);
thence N 19°41'54" W a distance of 148.33' (53.4v);
thence N 35°57'59" E a distance of 84.99' (30.6v);
thence N 81°52'22" E a distance of 61.82' (22.26v);
thence S 69°17'09" E a distance of 58.58' (21.09v);
thence S 54°17'46" E a distance of 75.39' (27.14v);



thence S 70°32'39" E a distance of 93.04' (33.49v);
thence S 49°31'39" E a distance of 75.01' (27v);
thence S 67°49'43" E a distance of 79.76' (28.71v);
thence S 33°24'53" E a distance of 100.74' (36.27v);
thence S 37°52'15" E a distance of 185.75' (66.87v);
thence S 37°43'20" E a distance of 95.93' (34.53v);
thence S 78°51'18" W a distance of 82' (29.52v);
thence N 89°57'48" W a distance of 109.38' (39.38v);

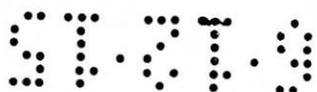
which is the **point of beginning**, containing 3.2 acres

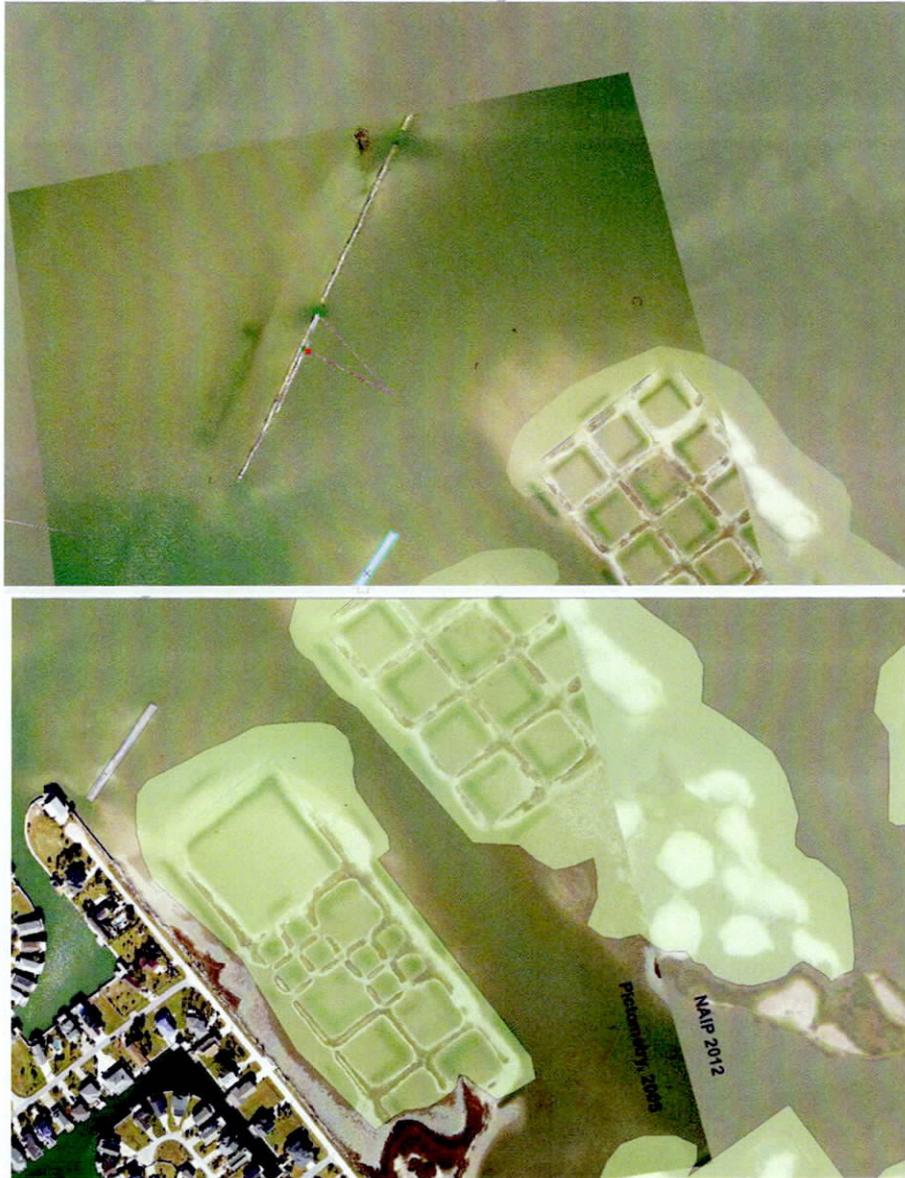
West Galveston Bay - Artificial Fill and Breakwaters

Artificial fill and breakwaters exist at the project location between the northeast line of Jamaica Beach Subdivision and northeasternmost point of Galveston Island State Park (GCPR Vol 2119 Pg 392)



Artificial fill was evidenced by aerial photography taken within 2 years of the marsh restoration work completion which occurred around 2005. The freshly placed dredge material contrasts against the natural bay bottom which makes delineation possible from these earlier photographs.





Pictometry imagery from 2005 clearly evidences the extent of fill that was placed in the area. Although some fill may have eroded from the sites since the photography was taken, it is the best evidence that exists for delineation at the toe of fill at natural bay bottom.

Field Notes of artificial fill as previous marsh restoration projects

Field Notes for artificial fill - TRACT 4 along the West Galveston Bay shoreline of the 1,950.57 acre tract described in volume 2119 page 392 of the GCPR, being part of the Hall & Jones Survey, A-121, surveyed by Trimble and Lindsey in 1837 and signed to Hall & Jones November 28, 1840, the effective date of the grant. The boundary is adjacent to State Tracts 66 and 67 in West Galveston Bay, Galveston County, Texas. Bearings, distances, and coordinates are grid, Texas Coordinate System, South Central Zone, North American Datum of 1983, US Feet.

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography, N = 13,641,632.25, E = 3,250,929.28, from which "HGCS D 62" bears N 72°45'34" E a distance of 13,815.79' (4,973.68V);

thence S 63°05'55" W along toe of existing artificial fill a distance of 133.02' (47.89V);

thence N 50°04'02" W a distance of 112.83' (40.62V);

thence S 54°05'33" W a distance of 156.97' (56.51V);

thence S 84°58'58" W a distance of 56.15' (20.21V);

thence S 49°08'00" W a distance of 115.17' (41.46V);

thence N 42°23'25" W a distance of 359.13' (129.29V);

thence N 29°23'58" W a distance of 326.96' (117.71V);

thence N 46°21'44" W a distance of 363.19' (130.75V);

thence N 18°29'21" W a distance of 168.33' (60.60V);

thence N 17°39'14" E a distance of 151.27' (54.46V);

thence N 64°35'35" E a distance of 365.59' (131.61V);

thence N 87°35'39" E a distance of 194.52' (70.03V);

thence S 58°10'50" E a distance of 99.70' (35.89V);

thence S 07°08'39" E a distance of 157.28' (56.62V);

thence S 34°37'16" E a distance of 207.35' (74.65V);

thence S 52°28'28" W a distance of 72.56' (26.12V);

thence S 35°54'13" E a distance of 763.48' (274.85V);

thence S 09°37'05" E a distance of 68.52' (24.67V);

which is the point of beginning

having an area of 17.13 acres, 746,000 square feet, except for 3.09 acres of natural bay bottom that remain isolated inside of artificial fill area.

Field Notes for artificial fill - TRACT 4A

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography, N = 13,641,125.77, E = 3,252,216.80, from which "HGCS D 62" bears N 68°52'21" E a distance of 12,765.60' (4,595.62);

thence S 22°51'34" W along existing toe of fill a distance of 98.24' (35.37V);

thence S 79°14'33" W a distance of 117.86' (42.43V);

thence S 51°57'44" W a distance of 614.82' (221.34V);

thence N 73°28'29" W a distance of 104.15' (37.49V);

thence N 32°30'05" W a distance of 411.95' (148.30V);

thence S 64°27'54" W a distance of 112.90' (40.64V);

thence N 85°03'38" W a distance of 178.12' (64.12V);

thence N 01°16'48" E a distance of 78.72' (28.34V);

thence N 39°18'49" E a distance of 106.27' (38.26V);

thence N 75°19'37" E a distance of 182.26' (65.61V);

thence N 07°37'11" W a distance of 23.94' (8.62V);

thence N 76°10'56" W a distance of 54.62' (19.66V);

thence N 46°58'19" W a distance of 67.99' (24.48V);

thence N 09°58'45" E a distance of 110.47' (39.77V);

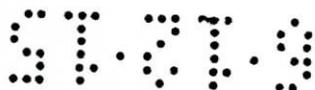


thence N 56°13'18" E a distance of 138.32' (49.80V);
thence S 78°15'07" E a distance of 162.31' (58.43V);
thence S 17°37'34" W a distance of 100.46' (36.17V);
thence N 55°25'05" E a distance of 344.37' (123.97V);
thence S 80°48'42" E a distance of 42.78' (15.40V);
thence S 35°17'39" E a distance of 295.81' (106.49V);
thence N 60°50'52" E a distance of 190.05' (68.42V);
thence S 64°35'32" E a distance of 91.74' (33.03V);
thence S 14°52'33" E a distance of 99.81' (35.93V);
thence S 55°20'47" E a distance of 54.75' (19.71V);
thence S 15°47'17" E a distance of 75.17' (27.06V);
which is the point of beginning,
having an area of 3.558 acres (591,000 square feet), except for 0.302 acres of natural bay
bottom that remain isolated inside of artificial fill area.

Field Notes for artificial fill - TRACT 4B

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography,
N = 13,641,940.84, E = 3,251,891.85, from which "HGCS D 62" bears N 72°48'06" E a distance of
12,805.01' 4,609.80V;

thence S 63°00'47" W along existing toe of fill a distance of 74.32' (26.76V);
thence N 82°35'48" W a distance of 39.76' (14.31V);
thence N 53°51'53" W a distance of 75.89' (27.32V);
thence S 56°00'37" W a distance of 72.00' (25.92V);
thence S 78°07'19" W a distance of 75.35' (27.13V);
thence N 74°33'46" W a distance of 120.62' (43.42V);
thence N 41°18'35" W a distance of 46.48' (16.73V);
thence S 83°56'26" W a distance of 44.15' (15.89V);
thence N 80°22'45" W a distance of 119.00' (42.84V);
thence N 32°56'08" W a distance of 59.02' (21.25V);
thence N 85°53'36" W a distance of 115.26' (41.49V);
thence N 53°01'51" W a distance of 75.78' (27.28V);
thence N 16°49'41" E a distance of 88.68' (31.92V);
thence N 04°19'31" W a distance of 87.00' (31.32V);
thence N 52°26'33" W a distance of 40.41' (14.55V);
thence S 78°50'32" W a distance of 140.61' (50.62V);
thence N 27°04'47" W a distance of 68.05' (24.50V);
thence N 72°18'20" W a distance of 143.14' (51.53V);
thence N 38°56'27" W a distance of 540.45' (194.56V);
thence N 57°42'01" W a distance of 63.27' (22.78V);
thence N 35°02'40" W a distance of 135.25' (48.69V);
thence N 45°45'09" W a distance of 102.83' (37.02V);
thence N 19°39'46" E a distance of 209.72' (75.50V);
thence N 55°59'48" E a distance of 353.74' (127.35V);



thence N 77°37'52" E a distance of 296.17' (106.62V);
thence S 65°55'40" E a distance of 230.92' (83.13V);
thence S 33°43'05" E a distance of 301.20' (108.43V);
thence S 43°56'26" E a distance of 315.28' (113.50V);
thence S 06°08'20" E a distance of 124.54' (44.83V);
thence S 53°13'33" E a distance of 234.24' (84.33V);
thence S 18°58'20" E a distance of 226.04' (81.37V);
thence S 07°41'55" W a distance of 78.35' (28.21V);
thence S 53°30'39" E a distance of 193.13' (69.53V);
thence S 02°02'46" E a distance of 272.69' (98.17V);
having an area of 31.31 acres (1,364,000 square feet), except for 2.307 acres of natural bay bottom that remain isolated inside of artificial fill area.

Field Notes for artificial fill - TRACT 4C

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography, N = 13,642,584.55, E = 3,255,086.73, from which "HGCS D 62" bears N 70°49'36" E a distance of 9,568.34' (3,444.60V);

thence S 89°50'10" W along the toe of existing fill a distance of 606.21' (218.24V);
thence S 08°11'25" E a distance of 115.53' (41.59V);
thence S 65°54'22" W a distance of 148.22' (53.36V);
thence S 83°02'07" W a distance of 195.15' (70.25V);
thence S 89°04'51" W a distance of 2159.41' (777.39V);
thence N 00°47'53" E a distance of 210.16' (75.66V);
thence N 24°26'42" W a distance of 175.86' (63.31V);
thence N 30°10'30" E a distance of 248.03' (89.29V);
thence N 64°00'46" E a distance of 321.28' (115.66V);
thence N 33°50'15" E a distance of 268.61' (96.70V);
thence N 01°07'56" E a distance of 215.97' (77.75V);
thence N 28°16'18" W a distance of 186.78' (67.24V);
thence N 18°34'01" E a distance of 525.63' (189.23V);
thence N 47°17'46" E a distance of 339.84' (122.34V);
thence N 48°18'56" E a distance of 237.18' (85.38V);
thence N 09°49'25" E a distance of 196.22' (70.64V);
thence N 25°18'50" E a distance of 216.88' (78.08V);
thence N 80°29'47" E a distance of 183.49' (66.06V);
thence S 34°40'27" E a distance of 173.10' (62.32V);
thence S 89°53'38" E a distance of 836.19' (301.03V);
thence S 02°39'11" W a distance of 77.08' (27.75V);
thence S 47°06'02" E a distance of 54.08' (19.47V);
thence S 02°16'53" E a distance of 72.32' (26.04V);



thence S 87°57'27" E a distance of 164.78' (59.32V);
 thence S 38°04'47" E a distance of 43.26' (15.57V);
 thence S 02°11'35" E a distance of 167.26' (60.21V);
 thence N 87°14'39" E a distance of 193.44' (69.64V);
 thence S 02°45'48" E a distance of 262.46' (94.49V);
 thence S 85°44'37" W a distance of 211.08' (75.99V);
 thence S 00°20'20" E a distance of 526.24' (189.45V);
 thence S 45°02'19" W a distance of 57.99' (20.88V);
 thence N 89°36'25" W a distance of 169.41' (60.99V);
 thence S 00°41'07" E a distance of 356.14' (128.21V);
 thence S 88°16'53" E a distance of 386.34' (139.08V);
 thence S 05°08'00" E a distance of 192.24' (69.21V);
 thence S 89°20'21" E a distance of 398.45' (143.44V);
 thence S 00°15'01" E a distance of 464.92' (167.37V);
 which is the point of beginning, having an area of 121.10 acres (5,275,000
 square feet), except for 14.15 acres of natural bay bottom that remain
 isolated inside of artificial fill area.

Field Notes for Breakwater – TRACT 5

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography,
 N = 13,645,929.38, E = 3,256,681.01, from which "HGCS D 62" bears S 88°26'34" E a distance of
 7,446.05' (2,680.58V);

thence N 37°16'06" W along the toe of existing fill distance of 172.34' (62.04V);

thence N 02°41'11" W a distance of 40.31' (14.51V);
 thence N 54°24'31" E a distance of 550.75' (198.27V);
 thence N 25°54'28" W a distance of 95.75' (34.47V);
 thence N 51°39'36" E a distance of 193.53' (69.67V);
 thence N 19°33'36" W a distance of 94.54' (34.03V);
 thence N 49°07'14" E a distance of 226.09' (81.39V);
 thence S 32°56'10" E a distance of 59.88' (21.56V);
 thence S 48°15'18" W a distance of 167.04' (60.13V);
 thence S 21°08'34" E a distance of 80.68' (29.04V);
 thence S 23°55'36" W a distance of 75.45' (27.16V);
 thence S 55°31'02" W a distance of 127.80' (46.01V);
 thence S 26°08'32" E a distance of 107.22' (38.60V);
 thence S 53°05'41" W a distance of 556.08' (200.19V);
 thence S 15°50'00" E a distance of 129.01' (46.44V);
 thence S 73°26'11" W a distance of 31.01' (11.16V);

which is the point of beginning
 having an area of 2.31 acres (100,000 square feet)



Field Notes for Breakwater – Tract 5A

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography, N = 13,647,084.74, E = 3,257,311.93, from which "HGCS D 62" bears S 78°43'43" E a distance of 6,946.33' (2,500.68V);

thence N 37°37'48" W along the existing toe of fill a distance of 849.90' (305.96V);

thence N 53°14'42" E a distance of 359.17' (129.30V);

thence S 39°45'49" E a distance of 60.21' (21.68V);

thence S 51°07'59" W a distance of 263.33' (94.80V);

thence S 02°03'21" W a distance of 52.97' (19.07V);

thence S 37°45'29" E a distance of 740.83' (266.70V);

thence S 55°00'00" W a distance of 66.00' (23.76V);

which is the point of beginning

having an area of 1.73 acres (75,000 square feet),

Field Notes for Breakwater – Tract 5B

Beginning at a point along the existing toe of fill as evidenced by 2005-2011 aerial photography, N = 13,647,976.24, E = 3,257,650.94, from which "HGCS D 62" bears S 70°50'24" E a distance of 6,852.99' (2,467.08V);

thence N 36°59'37" W along the existing toe of fill a distance of 86.23' (31.04V);

thence S 61°08'14" W a distance of 93.54' (33.67V);

thence N 39°39'12" W a distance of 172.57' (62.13V);

thence S 61°00'32" W a distance of 57.31' (20.63V);

thence N 35°04'52" W a distance of 47.00' (16.92V);

thence N 58°18'24" E a distance of 101.89' (36.68V);

thence S 39°20'07" E a distance of 181.45' (65.32V);

thence N 59°38'37" E a distance of 88.92' (32.01V);

thence S 43°49'08" E a distance of 128.80' (46.37V);

thence S 55°06'13" W a distance of 56.75' (20.43V);

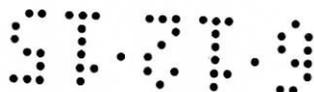
which is the point of beginning

having an area of 0.50 acres (22,000 square feet)

Shoreline accretions from adjacent construction

TRACT 6

Beginning at a common point along the MHW line described in TAC 33.136 as surveyed in 2000 by Elisando Leos and recorded in GLO Rolled Sketch Number 46 (MHW line, 2000) and the MHW line as observed in 2014 by Naismith Marine Services (MHW line, 2014), N



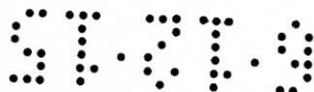
=13,642,372.72, E =3,254,919.02, from which "HGCS D 62" bears N 69°58'43" E a distance of 9,797.39' (3,527.06V);

thence S 36°32'22" E departing the MWH line, 2014 and continuing along the MHW line, 2000 a distance of 121.41' (43.71V);

thence N 78°36'29" W a distance of 81.88' (29.48V);
thence S 28°05'56" W a distance of 31.42' (11.31V);
thence N 89°29'03" W a distance of 166.07' (59.79V);
thence S 21°29'11" W a distance of 90.32' (32.52V);
thence N 71°45'51" W a distance of 109.99' (39.60V);
thence S 52°11'17" W a distance of 42.50' (15.30V);
thence S 32°27'18" W a distance of 112.32' (40.44V);
thence S 16°21'28" E a distance of 124.25' (44.73V);
thence N 82°25'23" W a distance of 72.82' (26.22V);
thence N 17°31'38" W a distance of 114.19' (41.11V);
thence N 05°27'10" E a distance of 81.58' (29.37V);
thence N 54°30'07" W a distance of 89.35' (32.17V);
thence S 70°45'31" W a distance of 152.00' (54.72V);
thence N 78°19'47" W a distance of 120.51' (43.38V);
thence S 60°14'46" W a distance of 122.05' (43.94V);
thence N 87°01'06" W a distance of 215.14' (77.45V);
thence N 68°25'26" W a distance of 85.81' (30.89V);
thence S 85°40'53" W a distance of 75.05' (27.02V);
thence N 56°37'28" W a distance of 100.50' (36.18V);
thence N 81°55'01" W a distance of 104.80' (37.73V) to a common point between the MHW line, 2000 and MHW line, 2014;

thence N 65°23'02" E departing MHW line, 2000 and continuing along MHW line, 2014 a distance of 128.18' (46.14V);

thence S 41°55'58" E a distance of 121.67' (43.80V);
thence N 80°41'24" E a distance of 145.63' (52.43V);
thence N 25°14'25" W a distance of 112.54' (40.51V);
thence N 85°47'08" E a distance of 136.93' (49.29V);
thence S 51°59'37" E a distance of 159.63' (57.47V);
thence S 88°54'52" E a distance of 310.40' (111.74V);
thence N 47°05'27" E a distance of 68.89' (24.80V);
thence S 73°33'03" E a distance of 206.04' (74.17V);
thence N 70°15'39" E a distance of 121.00' (43.56V);
thence N 50°58'53" E a distance of 117.85' (42.43V);
thence N 80°28'41" E a distance of 163.97' (59.03V);
which is the point of beginning



having an area of 3.16 acres (138,000 square feet)

TRACT 6A

Beginning at a common point along the MHW line, 2000 and the MHW line, 2014, N =13,642,570.32, E =3,255,162.58, from which "HGCS D 62" bears N 70°35'44" E a distance of 9,501.45' (3,421.00V);

thence N 64°28'12" E departing the MWH line, 2000 and continuing along the MHW line, 2014 a distance of 190.08' (68.43V);

thence N 58°45'55" E a distance of 210.01' (75.60V);

thence N 21°47'52" E a distance of 196.62' (70.78V);

thence N 23°31'15" W a distance of 129.78' (46.72V) to a common point between the MHW line, 2014 and MHW line, 2000;

thence S 75°47'55" E departing MHW line, 2014 and continuing along MHW line, 2000 a distance of 69.82' (25.14V);

thence N 88°35'45" E a distance of 136.54' (49.15V);

thence S 50°29'33" E a distance of 118.69' (42.73V);

thence S 73°26'52" W a distance of 183.23' (65.96V);

thence S 30°36'48" W a distance of 136.32' (49.08V);

thence S 36°58'59" W a distance of 150.48' (54.17V);

thence S 68°03'06" W a distance of 111.88' (40.28V);

thence S 37°28'50" W a distance of 56.25' (20.25V);

thence S 78°24'18" W a distance of 157.49' (56.70V);

thence N 83°15'23" W a distance of 40.50' (14.58V);

which is the point of beginning,

having an area of 1.21 acres (53,000 square feet)

TRACT 6B

Beginning at a common point along the MHW line, 2014 and the MHW line, 2000, N =13,643,147.16, E =3,255,113.03, from which "HGCS D 62" bears N 74°01'26" E a distance of 9,373.31' (3,374.39V);

thence N 58°57'06" W departing the MWH line, 2000 and continuing along the MHW line, 2014 a distance of 179.77' (64.72V);

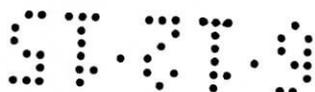
thence S 88°44'49" W a distance of 119.00' (42.84V);

thence N 10°11'58" E a distance of 92.21' (33.20V);

thence N 85°30'09" E a distance of 182.82' (65.82V);

thence N 07°42'25" W a distance of 106.36' (38.29V);

thence N 53°25'41" W a distance of 100.26' (36.09V);



thence N 14°25'11" E a distance of 58.70' (21.13V);
thence N 48°29'26" E a distance of 129.15' (46.49V);
thence S 68°49'20" E a distance of 208.92' (75.21V);
thence N 69°48'12" E a distance of 117.92' (42.45V);
thence N 54°42'16" W a distance of 149.96' (53.99V) to a common point between the MHW line, 2014 and MHW line, 2000;

thence S 80°03'22" E departing MHW line, 2015 continuing along MHW line, 2000 a distance of 142.85' (51.43V);
thence N 47°31'51" E a distance of 76.26' (27.45V);
thence S 58°34'19" E a distance of 144.47' (52.01V);
thence S 21°14'11" W a distance of 63.41' (22.83V);
thence S 80°51'13" W a distance of 217.64' (78.35V);
thence N 89°35'09" W a distance of 68.16' (24.54V);
thence S 81°04'46" W a distance of 50.91' (18.33V);
thence S 65°23'00" W a distance of 129.20' (46.51V);
thence N 50°57'35" W a distance of 19.77' (7.12V);
thence N 00°34'05" E a distance of 19.64' (7.07V);
thence S 86°33'53" W a distance of 14.01' (5.04V);
thence S 00°21'58" W a distance of 74.65' (26.87V);
thence S 38°42'55" E a distance of 172.29' (62.02V);
thence S 72°49'55" W a distance of 68.88' (24.80V);
thence S 57°19'27" W a distance of 42.84' (15.42V);
thence S 33°29'23" W a distance of 41.63' (14.99V);
thence S 38°13'55" E a distance of 121.21' (43.64V);
which is the point of beginning,
having an area of 2.17 acres (94,000 square feet)

TRACT 6C

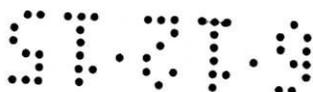
Beginning at a common point along the MHW line, 2014 and the MHW line, 2000, N =13,643,751.88, E =3,255,287.20, from which "HGCS D 62" bears N 77°24'04" E a distance of 9,055.15' (3,259.86V);

thence N 50°36'51" E departing the MHW line, 2000 and continuing along the MHW line, 2014 a distance of 119.73' (43.10V);

thence N 08°47'16" W a distance of 150.08' (54.03V) to a common point between the MHW line, 2014 and MHW line, 2000;

thence S 64°55'37" E departing MHW line, 2014 and continuing along MHW line, 2000 a distance of 159.19' (57.31V);

thence S 37°51'11" E a distance of 81.65' (29.39V);
thence S 75°46'07" W a distance of 141.88' (51.08V);



thence S 54°33'38" W a distance of 47.82' (17.22V);
thence S 29°47'34" W a distance of 60.60' (21.82V);
thence N 68°16'12" W a distance of 61.68' (22.20V);
which is the point of beginning,

having an area of 0.51 acres, (22,000 square feet).

TRACT 6D

Beginning at a common point along the MHW line, 2014 and the MHW line, 2000, N =13,644,092.64, E =3,255,070.22, from which "HGCS D 62" bears N 79°46'03" E a distance of 9,200.43' (3,312.15V);

thence N 29°53'41" W departing the MWH line, 2000 and continuing along the MHW line, 2014 a distance of 147.67' (53.16V);

thence N 14°53'33" E a distance of 138.28' (49.78V);
thence N 29°59'08" W a distance of 77.26' (27.81V);
thence N 11°14'40" E a distance of 31.41' (11.31V) to a common point between the MHW line, 2014 and MHW line, 2000;

thence S 76°17'50" E departing MHW line, 2014 continuing along MHW line, 2000 a distance of 182.27' (65.62V);

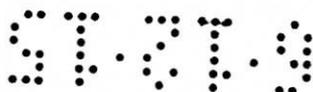
thence S 52°06'02" W a distance of 52.51' (18.90V);
thence S 25°29'17" E a distance of 64.33' (23.16V);
thence S 63°19'17" W a distance of 86.26' (31.05V);
thence S 25°36'42" W a distance of 55.76' (20.07V);
thence S 42°16'14" E a distance of 62.21' (22.40V);
thence S 27°54'04" E a distance of 103.01' (37.08V);
thence N 89°51'35" W a distance of 81.65' (29.39V);
which is the point of beginning,
having an area of 0.79 acres (36,000 square feet)

TRACT 6E

Beginning at a common point along the MHW line, 2014 and the MHW line, 2000, N =13,644,974.57, E =3,257,787.31, from which "HGCS D 62" bears N 83°13'42" E a distance of 6,381.52' (2,297.35V);

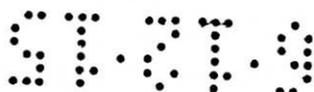
thence N 71°33'12" E departing the MWH line, 2000 and continuing along the MHW line, 2014 a distance of 103.11' (37.12V);

thence N 06°19'51" W a distance of 120.96' (43.55V);
thence N 34°01'47" E a distance of 90.73' (32.66V);
thence N 58°46'07" E a distance of 98.71' (35.54V);



thence N 16°18'58" W a distance of 127.03' (45.73V);
 thence N 57°13'41" E a distance of 89.49' (32.22V);
 thence N 40°53'37" W a distance of 176.38' (63.50V);
 thence N 18°00'03" W a distance of 83.99' (30.24V);
 thence N 54°20'57" E a distance of 131.41' (47.31V);
 thence N 33°58'05" W a distance of 80.63' (29.03V);
 thence N 77°39'15" W a distance of 105.42' (37.95V);
 thence N 35°10'52" W a distance of 100.49' (36.18V);
 thence N 36°43'11" E a distance of 143.37' (51.61V);
 thence N 22°54'20" W a distance of 75.50' (27.18V);
 thence S 89°42'03" W a distance of 147.50' (53.10V);
 thence N 03°06'54" W a distance of 97.25' (35.01V);
 thence S 74°33'43" E a distance of 149.21' (53.72V);
 thence S 45°23'21" E a distance of 63.82' (22.98V);
 thence N 25°58'20" E a distance of 125.06' (45.02V);
 thence N 39°59'38" E a distance of 167.91' (60.45V);
 thence N 03°26'24" W a distance of 208.80' (75.17V);
 thence N 29°38'33" W a distance of 124.87' (44.95V);
 thence N 58°06'29" E a distance of 99.28' (35.74V);
 thence N 85°25'47" E a distance of 269.70' (97.09V);
 thence N 48°10'21" E a distance of 156.85' (56.47V);
 thence N 08°26'41" E a distance of 141.43' (50.91V);
 thence N 58°54'50" W a distance of 221.78' (79.84V);
 thence N 11°15'26" W a distance of 57.64' (20.75V);
 thence N 42°32'44" E a distance of 135.60' (48.82V);
 thence S 63°03'15" E a distance of 209.23' (75.32V);
 thence N 16°23'23" E a distance of 110.94' (39.94V);
 thence N 13°17'47" W a distance of 149.70' (53.89V);
 thence N 22°19'29" E a distance of 42.65' (15.35V);
 thence S 59°43'36" E a distance of 139.77' (50.32V);
 thence N 61°06'31" E a distance of 121.27' (43.66V);
 thence N 23°03'47" W a distance of 160.28' (57.70V);
 thence N 49°15'47" E a distance of 40.83' (14.70V);
 thence S 88°53'39" E a distance of 123.34' (44.40V);
 thence N 56°50'14" E a distance of 74.92' (26.97V);
 thence S 56°54'11" E a distance of 36.32' (13.08V) to a common point between the MHW
 line, 2014 and MHW line, 2000;

thence S 78°18'13" W departing MHW line, 2014 and continuing along MHW line, 2000 a
 distance of 48.78' (17.56V);
 thence S 44°21'32" W a distance of 77.37' (27.85V);
 thence N 71°58'21" W a distance of 47.94' (17.26V);
 thence N 69°29'24" W a distance of 51.44' (18.52V);



thence S 68°49'50" W a distance of 43.61' (15.70V);
thence S 53°37'32" E a distance of 67.69' (24.37V);
thence S 78°31'45" E a distance of 83.99' (30.24V);
thence S 26°47'27" E a distance of 75.52' (27.19V);
thence S 23°18'24" W a distance of 62.56' (22.52V);
thence N 57°58'32" W a distance of 40.92' (14.73V);
thence S 18°06'14" W a distance of 115.99' (41.76V);
thence N 80°24'03" W a distance of 114.97' (41.39V);
thence N 66°46'25" W a distance of 63.31' (22.79V);
thence N 38°17'01" W a distance of 87.38' (31.46V);
thence N 89°17'51" W a distance of 26.96' (9.71V);
thence S 42°57'09" W a distance of 20.71' (7.46V);
thence S 13°17'47" E a distance of 184.17' (66.30V);
thence S 23°03'13" E a distance of 92.78' (33.40V);
thence S 44°00'00" W a distance of 43.67' (15.72V);
thence S 56°20'50" W a distance of 57.37' (20.65V);
thence S 26°57'30" W a distance of 116.39' (41.90V);
thence S 07°02'47" W a distance of 72.48' (26.09V);
thence S 18°06'54" E a distance of 82.34' (29.64V);
thence S 66°39'21" W a distance of 85.76' (30.87V);
thence S 27°04'23" W a distance of 131.38' (47.30V);
thence S 62°28'05" W a distance of 89.54' (32.23V);
thence S 58°27'25" W a distance of 191.56' (68.96V);
thence S 19°16'32" W a distance of 30.39' (10.94V);
thence S 41°22'32" E a distance of 30.14' (10.85V);
thence S 42°09'39" E a distance of 40.67' (14.64V);
thence S 28°01'46" W a distance of 94.44' (34.00V);
thence S 40°37'29" W a distance of 131.21' (47.24V);
thence S 05°05'53" E a distance of 33.58' (12.09V);
thence S 09°11'31" W a distance of 195.65' (70.43V);
thence S 27°07'01" W a distance of 123.00' (44.28V);
thence S 74°39'01" W a distance of 58.98' (21.23V);
thence S 04°40'00" E a distance of 25.32' (9.12V);
thence S 60°21'23" E a distance of 111.26' (40.05V);
thence S 66°53'34" E a distance of 119.43' (42.99V);
thence S 16°08'35" W a distance of 122.70' (44.17V);
thence N 86°45'17" W a distance of 99.91' (35.97V);
thence S 39°29'03" W a distance of 32.03' (11.53V);
thence S 28°22'33" E a distance of 99.25' (35.73V);
thence S 54°55'55" E a distance of 180.79' (65.08V);
thence S 14°05'04" W a distance of 197.49' (71.10V);
thence S 58°42'12" W a distance of 158.07' (56.91V);
thence S 09°51'45" E a distance of 170.89' (61.52V);



thence S 45°30'32" W a distance of 126.27' (45.46V);
thence N 61°44'45" W a distance of 135.79' (48.88V);

which is the point of beginning,
having an area of 7.52 acres (327,000 square feet).



James M. Naismith, RPLS, LSLS

Naismith Marine Services, Inc.

