DOLLAR BAY LINE

Survey of the Mean Higher High Water line of the Dollar Bay shoreline of the Stephen F. Austin Survey No. 4, Abstract 4, Galveston County, Texas, and being described by metes and bounds as follows:

COMMENCING at the NGS Monument H 1204; THENCE (L1) N60° 57' 04" W, a distance of 63.97 feet (23.0 varas) to the Mean Higher High Water Line of Dollar Bay and the POINT OF BEGINNING; THENCE along the said Mean Higher High Water Line of Dollar Bay the following courses and distances:

LINE	LINE	TABLE	Varas
		DEARING	
1		N60'57'04"W	23.0
2	100.68	S01*26'47"W S33*04'18"W	<u>36.2</u> 33.2
4	123.84	S02°20'05"E	44.6
5	74.10	S21'24'41"W	26.7
6	186.92	S38'14'02"W	67.3
7	27.15	S58'58'22"W	9.8
8	82.25	S04°02'33"W S12°30'22"W	29.6 18.7
10	19.63	S40°28'54"W	7.1
11	22.63	S79'32'44"W	8.1
12	20.56	S48'49'34"W	7.4
13	43.90	S14'34'19"E S01'02'53"W	15.8
15		S13'41'27"W	26.7
16	55.85	S00'22'32"W	20.1
17	and the second sec	S44°45'50"W	8.1
18 19	CONTRACTOR DE LA CONTRACTÓR DE LA CONTRACT	S17"20'12"W S06"43'20"W	23.9
20		S10°05'32"E	14.3
21	· · · · · · · · · · · · · · · · · · ·	S72*48'53"W	14.0
22	The shares and all because and a second state of second states and a second state of the	S46'20'41"E	7.5
23	and better over the define the second register statistics in success of the second state of the	S20'37'10"E	10.9
24	And all and an exception of the second	S01'41'38"E S62"58'42"W	<u>19.7</u> 10.9
26	AND A CONTRACTOR OF A CONTRACT	S28"22'05"W	31.4
27	CONTRACTOR AND ADDRESS OF THE OWNER OWNER OF THE OWNER OWN	S12"15'12"E	11.3
28	38.90	S13'22'16"E	14.0
29		S67'07'59"E	16.7
30	CONTRACTOR OF THE DESIGN OF TH	S08°01'21"W S12°43'56"E	7.0
32		S12'43'56 E	47.1
33	71.25	S47"35'24"W	25.7
34	CONTRACTOR DESCRIPTION OF THE OWNER OWNE	S34'09'14"W	19.7
35	and the subscription of the second state which is an an or the last reserve of	S84'57'42"E	10.9
36		N41'52'34"E N83'10'40"E	7.6
38		S60°53'02"E	32.1
39		S44'41'32"E	19.1
40	and the second s	S28"16'16"E	26.8
41	and the state of the second state of the secon	S28'36'21"E S18'14'48"E	36.9 39.2
42	And a second second state of the second	S17*44'38"E	20.1
44		S06'21'20"E	14.2
45	and the second	S30°13'36"W	19.9
46	and a supervised in the second s	S20°39'51"W	22.2
47	and an an other statements and an end of the statement and the statement of the statement o	S01'21'01"E	<u>31.4</u> 19.2
48	CONTRACTOR OF THE OWNER OWN	S71°42'55"W S34°49'42"W	3.2
50		S02°49'30"W	6.6
5	and an increase of the provident increase in the second second second second second second second second second	S49'10'37"E	1.5
52		N82'16'12"E	7.3
53		S49'35'31"E S09'49'29"E	37.2 48.7
55		S25'42'20"E	85.8
56		S33'04'14"E	51.5
57		S5316'15"E	61.0
58		S78'18'30"E	50.5
59		N82'39'18"E N43'46'07"E	59.4 86.4
6		N4315'20"E	16.4
62		S73'05'36"E	12.6
63	and the second	N41°55'36"E	15.2
64	a ser and the second	S8018'30"E S79'36'21"E	16.8 60.3
66	A 1 YO TO THE REAL PROPERTY AND TO AND THE PARTY IN THE PARTY INTE PARTY IN THE PARTY IN THE PARTY INTE	S26"43'02"E	32.4
67	187.34	S01°45'31"W	67.4
68	and a summary statement with a period of the second statement of the second st	S30'01'48"E	71.6
69		S25'38'06"E S01'42'10"E	109.0
7		S12*33'00"W	31.5
72	204.54	S30°03'37"W	73.6
73	59.86	S01°47'00"E	21.5
74	and the second s	S34'08'31"W	29.0
75		S13°18'07"W S31°45'30"E	38.6
77			and the subdivision of the second in the second s
78	State and a set of the state of the second set of the second set of the second set of the second sec	S12°38'59"E	20.6
79	55.74	S18"43'13"W	
80	NAME OF TAXABLE AS ADDRESS OF TAXABLE PARTY AND TAXABLE PARTY.	S64'43'02"W	67.8 97.9
82	and the second distances to be an orthogon where the second s	S85*53'11"W N71*26'02"W	25.0
8.		N89'09'41"W	50.2
84	152.99	S83'35'25"W	55.
85	and the second designed and the second of the second	S49'03'02"W	14.4
80		N85°17'31"W	24.2
88		N76°04'19"W N79°43'44"W	and a construction of the second
89		N54°35'07"W	29.3
90	134.07	N89'31'06"W	48.3
9	and a state of the	N68'14'08"W	
92		S65°10'56"W N52°23'25"W	
0.		N2612'34"W	
93	466 00		
93			
94	5 <u>323.77</u> 5 190.74	N18°10'01"W N07°32'08"W	116.6

LINE	FEET	TABLE BEARING	Varas
98	87.83	N60"42'52"E	31.6
99	84.63	N44'48'02"E	30.5
100	45.73	N11'34'07"E	16.5
101	55.49	N07°58'54"W	20.0
102	86.97	N20"23'00"E	31.3
103	57.54 51.83	N23°47'44"E N17°36'36"E	20.7
105	13.20	N57°02'19"W	4.7
106	42.50	S43'50'42"W	15.3
107	66.93	S07°41'28"W	24.
108	33.87	\$50°25'21"W	12.2
109	76.65	S04'48'41"W	27.6
110	50.51	S06'35'38"E	18.2
112	36.15 72.98	S21°36'17"W S46°52'10"W	26.3
113	131.13	S69°41'04"W	47.2
114	89.40	N76"34'00"W	32.2
115	20.19	S78°48'13"W	7.3
116	25.61	S20°07'50"W	9.2
117	13.33	S20'51'18"E	4.8
118 119	111.70 62.57	S09'43'37"W S44'13'45"W	40.2
120	171.42	S54"33'39"W	61.7
121	20.35	S69°16'37"W	7.3
122	12.48	S08*55'53"W	4.5
123	14.20	S67°19'09"W	5.
124	71.00	S27"06'59"W	25.6
125	136.88	S39°59'54"W	49.3
126	25.59	S37'02'56"E	9.2
127	35.83	S03'37'35"W	12.9
128 129	<u>39.52</u> 154.13	S24°37'46"W	14.2
130	48.15	S38°43'10"W S03°13'30"W	17.3
131	179.19	S29°45'09"W	64.5
132	91.03	S19'12'49"W	32.8
133	25.75	\$55'26'00"E	9.3
134	80.42	N85'13'42"E	29.0
135	263.26	S61°55'57"E	94.8
136	27.56	S16'59'06"E	9.9
137 138	61.93 18.19	S70'07'06"E S35'24'56"E	22.
139	26.30	N75'28'08"E	9.5
140	41.90	N65°58'40"E	15.
141	162.53	S86'00'58"E	58.5
142	28.38	N39'02'48"E	10.3
143	42.59	S85'59'21"E	15.
144	172.96	S46°15'13"E	62.
145 146	68.53	N71'43'35"E	24.
140	24.76	N45°27'44"E N03°05'43"W	8.9
148	40.45	N44'59'38"E	14.
149	31.31	N45'06'17"E	11.
150	39.05	S83'12'48"E	14.
151	26.72	S86°17'14"E	9.1
152	14.07	S26'58'36"E	5.
153	39.92 56.35	S72'31'12"E	14.4
<u>154</u> 155	64.41	N68°12'19"E S67°05'04"E	23.
156	126.13	N88'36'55"E	45.
157	100.50	S62'37'26"E	36.
158	98.40	S66'59'24"E	35.
159	45.77	S31°11'51"E	16.
160	59.28	N60"56'36"E	21.
161	41.77 36.53	S68'21'49"E N61'11'40"E	15.
<u>162</u> 163	49.01	S49°18'09"E	17.
164	20.43	N08'03'16"E	7.
165	67.64	S79'01'56"E	24.
166	29.39	N18'52'55"E	10.
167	93.29	S84'48'58"E	33.
168	153.70	S80'30'24"E	55. 20.
169	58.17	N80°21'20"E N84°12'11"E	20.
170	235.70	N841211 E N89'10'26"E	84.
172	23.70	S87'08'24"E	8.
173	196.32	N76'07'37"E	70.
174	25.98	N70'51'57"E	9.
175	122.71	N88'54'59"E	44.
176	23.08	S17'37'11"E	8.
177	13.54	S54°12'28"E	4.
178	25.27 24.62	S21'21'56"E N60'48'43"E	9
179 180	24.02	N70'33'04"E	87.
181	147.91	N85'18'06"E	53.
182	93.59	S87'28'32"E	33.
183	31.89	N80°58'23"E	11.
184	92.15	N79°12'24"E	33.
	48.98	N53"15'06"E	17.
185		N70"57'47"E	85.
<u>185</u> 186	238.06	Construction of the distance of the second party of the second se	10
185 186 187	46.24	N78'45'06"E	16.
185 186 187 188	46.24 55.50	N78'45'06"E N65'54'19"E	20.
185 186 187 188 189	46.24 55.50 75.76	N78'45'06"E N65'54'19"E N81'04'44"E	20. 27.
185 186 187 188	46.24 55.50	N78'45'06"E N65'54'19"E	20.

All elevations are referenced to NGS Monument "DOLLAR POINT 3" and do not reflect a MHHW Tidal elevation. NAVD 88 adjustment Station Disk "DOLLAR POINT 3" NAD 83 (1993) 29'26' 00.13957"N 094'53' 38.65265"W Scale Factor 0.99986472 Convergence +2 00 41.6. All bearings are Lambert Grid Bearings and all Coordinates refer to the STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, as defined by Article 21.071 of the NATURAL RESOURCES CODE of the State of Texas, NAD 83 Datum, 1993 Adj. All distances are grid distances.

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"DOLLAR BAY LINE" Mean Higher High Water line as shown is based on Tidal data collected on July 22-July 25, 2002 and referenced to Eagle Point Tide Gauge.

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SURVEYORS REPORT ON THE MEAN HIGHER HIGH WATER LINE SURVEY OF THE STEPHEN F AUSTIN NO. 4 SURVEY GALVESTON COUNTY ABSTRACT 4

I surveyed the line of Mean Higher High Water of the Stephen F. Austin Survey No. 4 in Galveston County, Texas, as authorized by Lyman Reed, owner, and in my capacity as Licensed State Land Surveyor for the State of Texas.

HISTORY

Stephen F. Austin No. 4 Survey is a survey of "3 Labors of land on the west margin of Galveston Bay, to include the Northern part of the place called Dollar Point". It is a portion of the 5 Leagues and 5 Labors of premium land granted to Stephen F. Austin on February 25th, 1832. These premium lands were compensation to Stephen F. Austin for one hundred families he, as Empresario, settled in the "littoral belt on vacant lands between the Lavaca and San Jacinto Creek" as prescribed by the State Colonization Law of March 1825, State of Coahuila and Texas.

The included field notes (Pg 3) can be found in the Archives and Records Division of the General Land Office, 1700 N. Congress, Austin Texas. The County Surveyors records as found in the office of the County Engineer, 123 Rosenberg, Galveston, Texas 77550 contain field notes of a shoreline survey on February 9th, 1847 by R. M. Sais, County Surveyor of Galveston County, in Field Book 6 Page 73 and included as (pg. 4). The U. S. Army Corps of Engineers constructed a flood protection levee (A) across this survey u in the mid 1960's together with flood protection tide gate n (B). A by-pass ditch was cut at location (G) during the construction of the flood protection gate and levee. My Sketch line crosses this ditch at Line (L14).

CONSTRUCTION

The tide Gate (B) was considered as a possible tidal of restriction to the waters of Dollar Bay and Moses Lake. A "Unidata" electronic tide gauge was set up and operated at location (E). A conventional project tide staff was also set up and used for control check and data verification. A 3/8" iron rod in concrete was found at location (D). Project tide information was collected for three tide cycles on July 22- July 25, 2002 (pgs 5-33). Using the USGS (now NGS) publication TIDAL DATUM PLANES by H. A. Marmer reprinted in 1977, the value for the Mean Tide Line was calculated referencing Eagle Point, Galveston Bay Tide Gauge (pgs 50-66). The value for Mean Higher High Water was calculated from the Mean Tide Line (pg 34). The results are shown on page 35 of this report. The Mean Higher High Water line was transferred to the shoreline of Dollar Bay and surveyed on the ground between July 30th and September 20th 2002.

The Galveston Bay shoreline (C) is reinforced with concrete riprap as protection for the said flood protection levee. Most of the Galveston Bay side Mean Higher High Water line is within the limits of this existing riprap.

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The elevation of this line was established referencing the tide gauge information from the said Eagle Point, Galveston Bay tide gauge and the Galveston Pier 21, Galveston Channel tide gauge (pgs 67-83) from July 22nd-July 25, 2002. An interpolation based on distance from each tide gauge was used to establish the Higher High Water elevation on the Galveston Bay side.

The adjoining map represents the location of the lines so located on these days. Included with this report are the various data sheets and notes associated with this project.

The Map pages 1&2 were recorded in the County Surveyors Records in the Office of the County Engineer, Galveston County, Texas and recorded in Book I, Page 219 of the County Surveyors Records, Galveston County, Texas on October 10, 2002.

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Sidney Bouse Licensed State Land Surveyor RPLS 5287



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FB6 hich m hours uller 220 50 a an eaud 0 North 130 40:15 De 200 County Catheston 149.10 North 200 10 Det North 17 10 170 Vo 230 Natural File . Anth stak -W, APT LAN 145 to datim back al huce W 26 Vo South 40 8 NOT DI DIS les , -South 200 W 5200 E 70 470 E 10 70 20 m the * Th