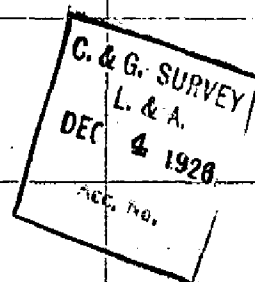


4211

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>Florida</u>
11-5613
DESCRIPTIVE REPORT.
#2
Topographic Sheet No. <u>4211</u>
LOCALITY:
<u>Tampa Bay</u>
<u>Sarasota Pass and</u>
<u>Manatee River</u>
<u>1926</u>
CHIEF OF PARTY:
<u>R. P. Eyman</u>



DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET NO. 2
SURVEY OF APPROACHES TO TAMPA BAY

INSTRUCTIONS OF JUNE 3, 1924

RAYMOND P. EYMAN, H. & G. E.
Chief of Party

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 1

1. Authority. Instructions from the Director, June 3rd, 1924.

2. General Description of the Coast.

The Gulf Coast of Anna Maria Key is hard sand, sloping rather gently from the storm water escarpment to the water line. This is the only section of hard sand coast line shown on the sheet. The remainder of the shore line is muddy or partially sandy with oyster bars or mangrove bushes at the water line. In some sections where the shore line is not exposed to strong currents, or where eddy currents exist, long flat shoals have been built out from the main land. In some sections the high water line is most indefinite and an exact determination would be impossible. In all these cases the high water line has been determined as closely as possible. The upper Manatee River and the Braiden River have low swampy shores covered with thick growths of black mangrove bushes, or high tropical grass with sharp points. With the exception of Rocky Bluff which is a small outcrop of sedimentary rock, there are no natural rocks along the shores.

3. Dangers and Bars.

Numerous shoals and flats exist but as these will be developed on the hydrographic sheet of this area they will not be mentioned here. As far as possible these shoals were outlined on the topographic sheet whenever a set up was made in the vicinity at low water. No especial attempt was made or extra time spent in obtaining their limits on this sheet.

A large group of piles stands about 300 meters N. E. of Fogarty's point. Immediately east of the railroad bridge crossing the river at Manatee is the remains of an old road bridge. A drum for the swing span, and the north support for the swing are still in existence, and due to complications in title to the bridge these have not been removed. Numerous piles - the remains of old docks - are scattered thickly about the south side of the river from the last railroad

bridge to a point directly across from the old Manavista Dock. This area is unsafe for small boats unless extreme care is exercised. Another group of old piles stands well above the water about 100 meters south of the present Manavista Dock House, and two sets of old piles extend out from the north shore for several hundred meters at Ellenton. The rocks at Rocky Bluff do not extend beyond the shore, and as the water is shoal in this vicinity there is little danger from them. The shoals at the entrance to the Main Branch are well staked and show plainly on a bright day. An old launch lying on the bottom is awash at low water and is in about $1\frac{1}{2}$ feet of water about 400 meters south by west of the entrance to the Main Branch.

4. Changes in Shore Line.

No natural changes in shore line have been observed in comparison with the original topographic sheet - with the exception of the north west end of Anna Maria Key. In the vicinity of the towns however, the shore line is being changed so rapidly by suction dredges to satisfy the plans of real estate developments, that it is out of the question to attempt to keep up with them. The most important sea walls now completed and filled are as follows: One is about $\frac{3}{4}$ mile long on the east shore of Palma Sola Bay bounding the Palma Sola Park Development. This development is completely paved and a large number of fine houses averaging possibly \$ 15,000 in value have been built therein. The streets shown are all paved. A sea wall approximately $\frac{1}{2}$ mile long has been built along the south westerly shore at the entrance to Ware's Creek and is now being filled in. A syndicate is being formed at present for the promotion of a scheme to develop the coal area and small bayou just west of Point Ogden on the north shore of the Manatee River but no plans have been completed yet. Work on this project will probably begin within a year. The water fronts of Palmetto, Bradenton and Manatee have all been improved by sea walls and a large Municipal Pier which will cover practically all the area between the present Florida Line Dock and the new State

Bridge is now under construction. The stakes for fill have been set to date. The State Bridge - a concrete highway bridge is to be built on the dotted lines shown between Palmetto and Bradenton. At present the north and south abutments have been completed and two short sections of approximately 5 panels each have been built in the center of the river. Work on the bridge is progressing slowly at present because of legal difficulties regarding the tidal plane which was furnished the Contractor by the State, and which the Contractor maintains is lower than the actual tidal plane.

On the south side of the river along the north east shore of Ayers Point a sea wall has been built and fill completed and some of the pavement of a new subdivision laid. The shore line from a point $\frac{1}{2}$ mile east of Rocky Bluff to the extreme limit of the sheet has been staked for fill and a number of the lots sold, but up to the last day of work on this sheet no fill had been accomplished. These proposed developments are being mentioned so that they may be anticipated in the near future, for in view of the past rate of development in this region it is reasonable to believe that the shore area will soon be decidedly changed.

The photostat of the original sheet of Palma Sola Bay shows the southern shore of the main part of the Bay as a sand flat with a long narrow bar at the present position of high water mark. The original high water mark is shown several hundred meters further south. The area between the present mean high water and old m.h.w. is now covered with grass and scrub mangroves and is undoubtedly above mean high water at present. The present storm water line is now at the approximate location of the old M.H.W. This same condition has been found in several localities similar to the above.

5. Survey Methods.

The sheet was started in January 1925 by Deck Officer G. J. Danielson who completed the shore line and detail of Anna Maria Key, Perico Island, and the mainland from Palma Sola Point to Shaw's Point. Ensign Paul A. Smith took up

the work at Shaw's Point and completed the sheet including the Manatee River and Palma Sola Bay. A combination of Plane Table traverse and three point fixes was used from the entrance to the Manatee River to the first railroad bridge. At each end of this bridge a good fix was obtained from triangulation stations and a system of graphical triangulation extended up the river as far as the entrance to the Main Branch. Each figure was a quadrilateral, giving a frequent check, and the rod readings at both ends of the last quadrilateral thus laid out checked the scaled distance from the graphical triangulation as closely as could be measured with a pair of dividers. After the establishment of control by this procedure, the table was set up along the shore at advantageous points, positions determined by three point fixes, and the shore line thus determined; traverse being used only for the small bights and bayous. A similar scheme was adopted in Sarasota Pass. A station was established at the eastern point of the north east shore of Anna Maria Key by three point fixes from triangulation stations (beacons in Sarasota Pass, Palm 3, beacons at the Manatee River Entrance, and Perico 2). Another station was established near Perico 2 as Perico 2 would not see down Sarasota Pass. From these two stations a graphical scheme was extended southward from the Pass as far as the entrance to Palma Sola Bay, and the same scheme continued eastward into the Bay. Station S.E. Base was recovered and a rod reading on it from the east shore of Anna Maria Key disclosed a discrepancy of 24 meters which was adjusted between the entrance to Sarasota Pass and Sta. S.E. Base. At the north end of Palma Sola Bay two rod readings were taken between stations established by graphical triangulation and no discrepancy was noticeable. A single angle measured from the spire at the north end of Palma Sola Bay between a station in the south end of the Bay and the tank at Palmetto by a sextant. This angle when laid down checked the angle on the sheet. No other signals outside the Bay could be seen.

A sextant was frequently used for locations on beacons and these

beacons subsequently used for plane table control.

The engineer's maps of Manatee, Palmetto, Bradenton and Palma Sola Park are being forwarded with the sheet. Sufficient control points were established in these towns to adjust the engineer's maps to the topographic sheet. The details were then transferred by means of proportional dividers.

6. New Place Names.

Braidentown is changed to Bradenton.

No town of Erie City exists in the position shown on chart 1256.

Bradenton will soon include all the area as ^{far} westward as Perico Island and approximately as far south as the southern edge of Palma Sola Park. The new Charter will definitely set the new City Limits. This has not been settled to date but is pending decision now.

St. Petersburg, Florida.

March 1926.

Paul V. Smith
Lieut. J. G.
 (Topographer)

PLANE TABLE POSITIONS

Object & Description	Latitude	D.M.	Longitude	D.P.	Name on Hydro-sheet
	North Side Manatee River				
Old Pile driver on Mc Kays Point.	27-31	748	82-37	456	Pile ✓
Old Fish House	27-31	64	82-36	164	Rick ✓
Small Shanty on Piles	27-31	230	82-35	1418	Shan
Dead Pine near "Peep"	27-30	1660	82-35	882	Dead
Highest Chimney on Yellow trimmed House	27-30	1495	82-35	573	Out ✓
Lone yellow pine on waters edge	27-30	1456	82-35	375	Lone
Center of S. side of Palmetto Dock House	27-30	1069	82-34	904	Me ✓
Turrett on residence in Palmetto	27-30	1356	82-34	746	Turk ✓
White wood cross on N. end of T.G. & S. bridge	27-30	997	82-34	210	Cross
Manatee sign on N. end of S.A.L. bridge	27-30	902	82-33	1002	Tee
Cupula on yellow Barn	27-30	1400	82-32	1470	Cup ✓
Center of E. end of small yellow dock house	27-30	873	82-32	1005 ⁸	Go ✓
Stake with Flag	27-30	1566	82-31	1531	His ✓
Dead Palm	27-30	1800	82-31	695	Pul
Blazed palm at waters edge on point.	27-31	218	82-30	1523	Rock
Chimney on phosphate plant on Rocky Bluff	27-31	716	82-30	1376	Fos
Door in east side of dock House	27-31	648	82-30	1165	Fate
Small shanty on N. side of river	27-31	1276	82-30	565	Sta.
Highest slim stack on old plant	27-31	1525	82-29	1294	Soc.
Door in dock warehouse	27-31	1278	82-29	1292	Silk
Hydrographic Sta. Mark	27-31	1130	82-28	1394	Main
Stake in Water	27-31	800	82-28	1468	Bone
Hydrographic Sta. Mark	27-31	1083	82-27	48*	Bend
Last Bn before Main Branch	27-31	979	82-29	196	Black
Hydrographic signal	27-31	1404	82-29	577	Off
Tan shanty - center	27-31	1428	82-37	941	Tan
"V" shaped palmetto	27-31	1124	82-37	587	V

* Denotes reverse measure from next highest meridian or parallel.

copy check plan.

PLANE TABLE POSITIONS

Object and Description	Latitude	D.M.	Longitude	D.P.	Name on Hydro-sheet
	South Side Manatee River				
Stop sign on road end in Manatee	27-29	1779	82-32	1507	Stop
Small signal on stump a- bout 600 m. S.E. of Ayres	27-29	1758	82-31	1419	Tour
Dead Palm	27-30	728	82-31	488	Hat
Blazed yellow pine at waters edge	27-30	1050	82-30	982	Smoke
Blazed yellow pine at waters edge	27-30	1536	82-30	644	Pill
Cropped palmetto on point	27-31	376	82-30	500	Nayt
Large fat shaped yellow Pine	27-31	500	82-29	1603	Fat
Old pier for center of swing Bridge	27-30	566	82-33	470	Drum
Topographic Sta. Mark	27-30	384	82-32	247	Ayres
Stake with Flag	27-31	383	82-29	274	Fool
Stake on Shore	27-30	1540	82-29	20	Fag
Palm (blazed)	27-30	1514	82-29	13	
Stake with flag	27-31	53	82-28	1270	Him
Stake near "Pod"	27-31	653	82-29	796	Lost
Old boiler in water about 200 m. S.E. of Mc Neil	27-30	1331	82-37	117	Boil
West end of Roberts house	27-30	803	82-36	1485	Sting
Large red chimney on Bishops House	27-30	636	82-36	1023	Bish
East end of boat house	27-30	682	82-36	1017	Ope
Large yellow pine-blazed- near water	27-30	464	82-36	395	Blaze
White flagpole on W. side of small basin	27-30	387	82-35	1642	Ku
White Beacon	27-30	477	82-35	1532	Bn
White flagpole	27-30	217	82-35	1056	Klux
Lone mangrove on Daniels Point	27-30	131	82-34	1160	Dan
Sign post at S. end of Tampa G. & S.R.R.	27-29	1772	82-34	117	Tamp
Flag staff on High School Bradenton	27-29	1253	82-33	1472	H.S.
Yard limit sign S.H.L.	27-29	1834	82-33	748	Yard
Church, Manatee	27-29	1453	82-32	1430	Saint
*Tall dead pine on Ayres Point	27-30	379	82-32	264	Ayres
Hydrographic Signal	27-31	289	82-40	785	Alpha
Hydrographic signal	27-31	626	82-39	1419	Beta
End of Dock	27-31	668	82-39	22	Pek
Middle window of three in white house	27-31	480	82-38	1622	Three

(* Signal deal in hydrography)

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PLANE TABLE POSITIONS

Object and Description KKK	Latitude	D.M.	Longitude	D.P.	Name on Hydro-sheet
South Side Manatee River (cont'd)					
Hydrographic signal	27-31	722	82-38	1292	Gam
Center of white bridge	27-30	1261	82-37	343	Bid
Hydro Signal	27-30	753	82-31	455	Tri
Southern most of a number of high stacks on saw mill	27-29	417	82-30	1273	Bat
Hydro signal	27-31	633	82-29	988	Pod
Hydro signal	27-31	271	82-37	1629	Sand
Sarasota Pass & Palma Sola Bay					
Hydro signal	27-31	614	82-42	758	Sig
Fish House	27-30	902	82-41	400	Fish
Bn # 6	27-30	1313	82-41	758	
Bn # 8	27-30	678	82-41	680	
Bn (un-numbered)	27-30	760	82-41	575	
Hydro signal	27-30	638	82-42	1119	Cobb
Hydro signal	27-29	1760	82-42	692	Fill
Hydro signal	27-29	1310	82-41	482	Cut
Hydro signal	27-29	1068	82-42	323	Dan
Bn # 3	27-29	706	82-41	1372	
Club House	27-29	49	82-42	588	Club
Real Estate Tower	27-31	614	82-43	581	Tow
Spire (Anna Maria)	27-31	1656	82-43	1628	Spire
Bath House Cupola	27-27	1599	82-41	1576	Bath
Iron Pipe Near Sig.	27-31	656	82-42	765	Pipe
Center swing bridge	27-28	140	82-41	758	Draw
S.E. end white house	27-28	1659	82-38	956	
Sign board white	27-28	1446	82-38	958	
Large dead pine near edge of bayou	27-28	602	82-38	663	
Tripod signal	27-28	191	82-38	1359	Long
Tripod signal	27-28	313	82-39	957	Low
Tri. signal	27-28	994	82-40	560	Ost
Chimney on cement house	27-28	816	82-40	913	
Hydro signal	27-28	1185	82-40	1176	Ban
Hydro signal	27-28	1299	82-41	571	Mon
S.Gable white house	27-29	246	82-41	276	
Hydro signal	27-29	102	82-41	169	Pill
Hydro signal	27-29	550	82-41	446	For
Hydro signal	27-29	521	82-41	1091	Wat
Hydro signal	27-29	1527	82-41	1001	West
Hydro signal	27-29	356	82-41	642	Clot
Pine tree	27-30	450	82-38	1476	Pine

at New.

PLANE TABLE POSITIONS

Object and Description	Latitude	D.M.	Longitude	D.P.	Name on Hydro-sheet
Sarasota Pass & Palma Sola Bay (cont'd)					
Hydro signal	27-30	801	82-38	1482	Spire
Palma Sola Rural School					
F.P.	27-30	800	82-38	1321	
West gable galvinzed roof					
dock house	27-29	1788	82-38	1094	Hos
West gable drab house					
white trimming window	27-29	1646	82-38	1008	
Tile roof red House	27-29	1083	82-38	987	
Chimney gray stucco house	27-29	660	82-38	925	
Center of Bridge	27-29	405	82-38	1061	
Real Estate sales office	27-29	242	82-38	1106	Tan
S.W. Cor. Sea Wall	27-29	247	82-38	1199	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4211

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 2

REGISTER NO. 4211

State Florida.

General locality Tampa Bay, ~~Gulf Coast of Florida.~~

Locality Sarasota Pass and Manatee River

Scale 1
20,000 Date of survey Feb. 1925 to Mar., 1926

Vessel Hydrographer

Chief of Party Raymond P. Eyman

Surveyed by Paul A. Smith, and G. J. Danielson

Inked by Paul A. Smith

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated June 3rd, 1924

Remarks:.....