

6275

Graphic Control

U. S. COAST & GEODETIC SURVEY  
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MAY 8 1935

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton Director

State: FLORIDA

DESCRIPTIVE REPORT

Topographic }  
Hydrographic } Sheet No. AA

LOCALITY

Biscayne Bay  
Miami

Miami & Miami Beach

1931

CHIEF OF PARTY

H. A. Cotton

U. S. GOVERNMENT PRINTING OFFICE: 1923

Graphic Control

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

MAY 7 1935

Acc. No. \_\_\_\_\_

REG. NO.

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. AA

REGISTER NO. 6275

State FLORIDA

General locality ~~Miami~~ Biscayne Bay

Locality Miami and Miami Beach

Scale 1 - 10000 Date of survey August, September, 1934

Vessel \_\_\_\_\_

Chief of party H. A. Cotton

Surveyed by E. R. Cotton

Inked by E. R. Cotton

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated November 21, 1934

Remarks: \_\_\_\_\_

...

*Applied to Chart #547 12/10/35 - [Signature]*

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT  
TO ACCOMPANY  
TOPOGRAPHIC SHEET " AA "

BISCAYNE BAY (BOTH SHORES) FROM  
LATITUDE  $25^{\circ} 45'$  TO LATITUDE  $25^{\circ} 47'$

Party No. 14

E. R. McCarthy,  
Lieut.(j.g.) C&GS,  
Chief of Party.

DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET NO. AA

AUTHORITY:

Instructions from the Director dated Nov. 17, 1933.

LIMITS:

Biscayne Bay (both shores) from Latitude  $25^{\circ} 45'$  to Latitude  $25^{\circ} 47'$ . Includes Miami Harbor, Fisher Island and open coast for two miles north of the jetties.

CONTROL:

There was ample triangulation control for the sheet from the 1918, 1928, 1930 and current surveys. The first order stations established in 1933 are not shown as these are located on the 1927 datum and the correction factors are not known.

METHODS:

The usual plane table methods of traverse as well as graphic triangulation were used. At least three cuts were obtained to all prominent objects and aids.

CLOSURES:

The topographer is no longer with the party and left no data as to the closures. There was little traverse run.

GENERAL DESCRIPTION OF COAST:

The area enclosed by the sheet is a well built up section-- the city of Miami lies on the west shore of Biscayne Bay and the city of Miami Beach on the east shore between the Bay and the ocean. Both -- but particularly Miami Beach -- are winter resort cities. They are connected by two causeways which provide for automobile and trolley communication. Several islands have been formed by dredging and filling in the vicinity of the causeways and on these islands are located many expensive and new estates. In both cities are numerous hotels and apartments of all classes.

DETAILED DESCRIPTION OF THE COAST:West Shore of Biscayne Bay:

From the southern limits of the sheet to Miami River the shore is rock at the south end and sand and gravel at the north end. There are a few private piers and docks behind which the ground is high and numerous residences and estates are located.

Burlingame Island was formed by building a timber bulkhead enclosing two smaller islands and filling it with spoil. A small rock crushing plant is located here but the island is in the process of development.

The Miami River within the limits of the sheet is bulkheaded on both sides and crossed by three lift bridges and one swing bridge. It also has numerous slips and is used by commercial interests (oil, fish, produce and building interests and small boat yards.) The Royal Palm boat basin is located on the north bank at the entrance. It is used by private interests and as a storage basin.

The section between the River and County Causeway is largely controlled by the city. The south end is bulkheaded and is a city park. The north end is built up with slips and basins for charter fishing boats and small cruisers, and piers which provide for docking a boat of any size that may enter the port. The P & O dock (F.E. C.R.R.) is little used.

The section between the causeways and north of the Venetian Causeway is bulkheaded and privately owned. There are a few wharves and piers. The area behind the shore is built up with apartment houses and private residences and is tree lined.

Causeways:Venetian:

This causeway connects Miami with Miami Beach, is privately owned and charges a toll. Several artificial islands spanning the causeway have been made by constructing bulkheads and building up the islands by hydraulic fill. The bulkheads on the islands of San Marco and San Marino were originally of timber instead

DETAILED DESCRIPTION OF THE COAST(CONTINUED):

of concrete, and have rotted away, leaving the high water line on these islands a sand beach which is back of the row of old piling which marks the original bulkheads. The three easterly islands have been developed with streets and residences while the three westerly, except the seaplane hanger and base on Venecia(Causeway) Island, are undeveloped and uncared for.

County:

This causeway was built by the county and is free. In addition to the dual highway a double line of trolley tracks is carried by it. The area east of the west draw bridge has been filled from spoil from the dredging of the main channel and is being used as a dirigible base for commercial purposes. The fill is now complete.

There are three artificial islands made by hydraulic fill located on the north side of the causeway and connected to it by concrete bridges. These islands are developed and are the site of a number of expensive and well cared for estates.

The west end of the south side of the causeway is bulkheaded and used as a storage basin for large yachts. The triangle at the east end of the causeway is also bulkheaded and is used by the Florida Light & Power Co. as well as by ferries and small boats.

The islands south of the main channel have been formed by spoil from the dredging of the main channel and are still being used as spoil areas. They are covered with a growth of Australian pine.

East Shore of Biscayne Bay:

Virginia Key is low and undeveloped. The portion of the key within the limits of the sheet is sand fringed by mangrove.

Fishers (Terminal) Island is artificial having been built up with hydraulic fill and is covered with trees. The northeast portion is a government reservation while the remainder of the island except for a small portion in the S.W. corner is owned by commercial(oil) interests.

DETAILED DESCRIPTION OF COAST (CONTINUED):

The east shore is unprotected while the remainder of the island is bulk headed which bulkheads except those fronting on the government reservation and on the Vanderbilt interests in the S.W. corner are in poor condition and in most places, rotted out. The slip at the northern end of the island is in good condition as is also the easterly of the two ferry slips. The principal structures on Fisher Island are the oil tanks on the northern end of the island and the large water tank in its center.

The entrance to Miami main channel is protected by two jetties.

The east shore of Biscayne Bay between the County Causeway and the main channel is bulkheaded and is used by the several oil companies for dockage and storage.

The east shore between the two Causeways is bulkheaded and is occupied by hotels, estates and private residences.

The east shore north of the Venetia<sup>n</sup> Causeway is also bulkheaded and is used by the building material companies to the Sunset Isles.

The Sunset Isles are also bulkheaded, are artificial and are residential subdivisions.

OUTSIDE COAST:

The outside coast is entirely sand beach protected by groins and bulkheads. The area behind the beach is a city park for about a mile above the jetties, and is built up with apartment houses and hotels north of here to the limits of the sheet.

U.S. ENGINEER SURVEYS:

Several connections were made with the U. S. Engineer triangulation system by both triangulation and topography.

The coordinate grid of the engineers was plotted on the sheet by assuming the position of station Arundel (USE) and Base (USE) were correct and plotting the 5000' coordinates lines perpendicular and parallel to the latitudes. As a check the engineers stations located by topography were scaled from the grid and found to agree quite closely with the engineer value.

CITIES:

MIAMI:

Miami with a population of 110,000 is a well known and popular winter resort and is noted especially for fishing and sports. It has considerable commercial importance as a shipping point of citrus fruit and as an airport.

MIAMI BEACH:

Miami Beach with a population of 6,400 is also a well known winter resort and has little if any commercial importance.

LANDMARKS:

There are numerous landmarks within the surveyed area. Positions of these are attached.

GEOGRAPHIC NAMES:

Local names not shown on the chart were placed on the sheet in pencil.

MISCELLANEOUS:

The low water line north of Virginia Key was located by the topographer but is only approximate.

A local control monument was located in the vicinity of Point View.

Respectfully submitted:

E. R. McCarthy,  
Lieut.(j.g.) C&GS,  
Chief of Party.



MEMORANDUM BY CHIEF OF PARTY

to accompany descriptive report

Topographic Sheet "AA"

The field and office work on the sheet was done under the direction of H. A. Cotton.

The bench marks in the vicinity of Miami and Miami Beach and the location of the new beacons was done by Party No. 14.

E. R. McCarthy,  
Lieut.(j.g.) C&GS,  
Chief of Party.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Page 1 of 2 Pages

TO BE CHARTED }  
TO BE DELETED }

STRIKE OUT ONE

## LANDMARKS FOR CHARTS

Miami Fla., May 6 1935

193

I recommend that the following objects which have ~~(been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.~~

The positions given have been checked after listing.

E. R. McCarthy

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE									
		° ' "		° ' "		D. P. METERS							
		°	'	°	'	°	'						
HOTEL TOWER ( Everglades Hotel 1918 )		25	46	1127.2	80	11	560.0	NA	Tri-1	1918	*	593 547	
WATER TOWER ( Miami Beach Water Tower )		25	47	1053.3	80	08	448.0	NA	Tri-1	1918	*	583	
PENTHOUSE apartment house ( Library 1934 )		25	47	964.7	80	11	298.3	NA	Tri-1	1934	*	583	
WATER TOWER ( Star Id. Green Water Tower 1934 )		25	46	1149.9	80	08	84.8	NA	Tri-1	1934	*	583	
TANK (ELEV) ( Fisher Id Water Tank 1929 )		25	45	1252.5	80	08	903.8	NA	Tri-1	1929	*	1248 583	
PENTHOUSE, on pier ( Pier 1934 )		25	46	177.0	80	07	1525.8	NA	Tri-1	1934	*	583 1248	
STACK (TALLER OF TWO) ( Stack F L P Co )		25	46	454.0	80	08	1614.1	NA	Tri-1	1934	*	583	
STACK (LOWER OF TWO) ( Chimney, lowest F L P Co )		25	46	452.5	80	08	1591.0	NA	Tri-1	1934	*	583	
TANK (ELEV) ( Water Tank S. Miami Beach 1918 )		25	46	298.6	80	08	416.1	NA	Tri-1	1918	*	583 1248	
CHIMNEY (HOTEL) ( Stack Fleetwood Hotel 1934 )		25	46	1249.9	80	08	952.1	NA	Tri-1	1934	*	583	
CLOCK TOWER ( Clock Tower Blackstone Hotel )		25	46	1285.9	80	08	67.2	NA	Tri-1	1934	*	583 1248	
TOWER CITY HALL tall, white stucco ( City 1934 ) 1928		25	46	1741.7	80	07	1627.1	NA	Tri-1	1928 1934	*	583 1248	
DOME HOTEL ( Plan 1928 )		25	47	408.6	80	08	1184.1	NA	Tri-1	1928	*	583	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Date received 2.4.7 - 1935

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Sheet No. 1 of 4 Sheets

TO BE CHARTED }  
~~TO BE DELETED~~ } STRIKE OUT ONE

## LANDMARKS FOR CHARTS

Miami, Fla.

May, 1935

I recommend that the following objects which have ~~(be examined)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing.

E. R. McCarthy

Chief of Party.

## AIDS TO NAVIGATION SHEET "AA". (

GENERAL LOCALITY	Main Channel Beacons	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE									
			° ' "		° ' "		D. P. METERS							
			D. M. METERS		D. P. METERS		D. P. METERS							
	Beacon No. 7	25 45	1684	80 08	560	N.A.	TOPO						583	
	Beacon No. 12	25 46	1753	80 08	470	"	"						"	
	Beacon No. 9	25 46	144	80 08	1206	"	"						"	
	Beacon No. 14	25 46	229	80 08	1168	"	"						"	
	Beacon No. 11)													
	Beacon No. 13)													
	Beacon No. 16)													
	Beacon No. 17)													
	Beacon No. 19	25 46	1675	80 10	875	N.A.	TOPO						583	
	Beacon No. 20	25 47	107	80 10	1450	"	"						"	
	Beacon No. 21	25 46	1803	80 10	1352	"	"						"	
	Beacon No. 23	25 46	1786	80 11	68	"	"						"	
	Beacon No. 25	25 46	1754	80 11	159	"	"						"	
	Beacon No. 27	25 46	1711	80 11	319	"	"						"	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Done as letter 443-35

## LANDMARKS FOR CHARTS

**May**, 1935

The positions given have been checked after listing.

**E. R. McCarthy**

AIDS TO NAVIGATION SHEET "AA" (CONTINUED)

Chief of Party:

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Sheet No. 3 of 4 sheets

TO BE CHARTED }  
TO BE DELETED }

STRIKE OUT ONE

## LANDMARKS FOR CHARTS

Miami, Fla.

May, 1935

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(detailed charts)~~ the charts indicated.  
The positions given have been checked after listing.

E. R. McCarthy

Chief of Party.

## AIDS TO NAVIGATION SHEET "AA" (CONTINUED)

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE		DATUM							
		°	'	°	'								
		D. M. METERS	D. P. METERS										
Miami Harbor	Miami Channel Beacon No. 18	25	47	39.5	80	10	1280	N.A.				583	
"	" No. 22	25	47	318	80	10	1647	"				"	
"	" No. 24	25	47	316	80	11	108	"				"	
"	" No. 26	25	46	1735	80	11	1357	"				"	
Mum. Wharf	Slip Beacon No. 1	DELETE											
"	" No. 3	25	47	307	80	10	1319	"				"	
Meloy Chan.	Front range beacon	25	45	1391	80	08	166	"				"	
(Topo "Tub")	Rear range beacon	25	45	893	80	07	1634	"				"	
Peninsula Chan.	Front Range Beacon	25	45	1594	80	09	549	"				"	
"	" Rear Range Beacon	25	45	1606	80	09	192	"				"	
Miami South Channel	Bn. No. 4	26	44	1561	80	11	58	"				"	
"	" No. 5	25	45	735	80	11	103	"				"	
"	" No. 3	25	45	1350	80	11	184	"				"	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Done as Letter 443-30

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Sheet No. 4 of 4 Sheets

TO BE CHARTED

STRIKE OUT ONE

Miami, Fla.

May, 1935

## LANDMARKS FOR CHARTS

I recommend that the following objects which have ~~(have been)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(charts)~~ the charts indicated.  
The positions given have been checked after listing.

## AIDS TO NAVIGATION SHEET "AA" (CONTINUED)

E. R. McCarthy

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
		LATITUDE		LONGITUDE										
		° ' "		° ' "		D. P. METERS								DATUM
		°	'	°	'	°	'							
Miami Harbor (continued)														
	Miami South Channel Rm. No. 12	25	45	1765	80	10	1656	N.A.	TOPO				683	
	" " " No. 5	25	46	470	80	10	1615	"	"				"	
	Bayfront Yacht Basin Rm. A	25	46	736	80	10	1629	"	"				"	
	" " " " B	25	46	951	80	10	1625	"	"				"	
	" " " " C	25	46	1266	80	10	1621	"	"				"	
	" " " " D	25	46	1469	80	10	1617	"	"				"	
	Miami South Channel Rm. No. 7	25	46	1484	80	11	208	"	"				"	
	" " " " No. 18	25	46	1710	80	11	165	"	"				"	
	" " " " No. 9	25	46	1646	80	11	220	"	"				"	
	Miami River So. Chan. Beacon No. 2	25	45	1455	80	11	147	"	"				"	
	" " " " No. 1	25	46	577	80	11	68	"	"				"	
	" " " " No. 3	25	46	386	80	11	380	"	"				"	
	Intra-Coastal Wbwy. Beacon No. 85	25	47	1177	80	10	1363	"	"				"	
	" " " " No. 83	25	47	1689	80	10	1278	"	"				"	

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE

Same as sheet 443-55



Date May 11, 1935GEOGRAPHIC NAMES  
FLORIDASurvey No. T6275Chart No. 1248Diagram No. 1248

Approved by the Division of Geographic Names, Department of Interior. \*

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Venetian Causeway</u>	✓ -----			
✓	<u>Causeway Island</u>	✓ -----			100
✓	<u>San Marco Island</u>	✓ -----			
✓	<u>Venetian Islands</u>	Same			
✓	<u>San Marino Island</u>	✓ -----			100
✓	<u>Di Lido Island</u>	✓ -----			100
✓	<u>Rivo Alto Island</u>	✓ -----			100
✓	<u>Belle Island</u>	Same			
✓	<u>Sunset Isles</u>	"			
✓	<u>Collins Canal</u>	"			
✓	<u>Atlantic Ocean</u>	"			
✓	<u>Star Island</u>	"			
✓	<u>Hibiscus Island</u>	<del>Hybiscus Island</del>			
✓	<u>Palm Island</u>	✓ Same			
✓	<u>Main County</u>				
✓	<u>Causeway Channel</u>	✓ -----			
✓	<u>Biscayne Bay</u>	✓ Same			
✓	<del>Miami</del>	✓ " <u>Miami</u>			
✓	<del>Miami River</del>	✓ " <u>Miami River</u>			
✓	<u>Brickell Point</u>	✓ "			
✓	<u>Burlingame Island</u>	✓	Same		100
✓	<u>Point View</u>	✓ Same			
✓	<u>Fisher Island</u>	"			

APPROVED NAMES  
UNDERLINED IN RED  
H.L. Flemer



Diagram No. 1248

Approved by the Division of Geographic Names, Department of Interior. ✱

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]



PLANE-TABLE.  
REVIEW OF GRAPHIC CONTROL SURVEY T-6275, SCALE 1/10,000.

Date of Review 1/23/36.

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5629, , with particular attention to the following details:

- (a) Projection has been checked in the Field. ✓
- (b) Accuracy of location of plane table control points. ✓
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. ✓
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. ✓

2. Refer to the review and descriptive reports <sup>on page 3.</sup> of air photo compilations Nos. T-5629, , for a more complete discussion of any errors or discrepancies found. <sup>since this survey T-6275 was made.</sup> ✓

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *none.*

Notes and corrections resulting from the review are shown on this survey in green. *(Note made concerning location of BM. 3. Name)*

*Leonard A. Melsamer*  
 1/23/36.

*B. G. Jones*