9914

Diag. Cht. No. 532.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-76(51) *Office No.* T-9914

LOCALITY

State Texas

General locality Houston Ship Channel

Locality Houston

19~~47~~51-52

CHIEF OF PARTY
P.L.Bernstein, Chief of Field Party
J.E.Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE May 12, 1953

B-1870-1 (1)

9914

DATA RECORD

T-9914

Project No. (II): Ph-76(51) Quadrangle Name (IV):

Field Office (II): Houston, Texas Chief of Party: P. L. Bernstein

Photogrammetric Office (III): Officer-in-Charge:

Instructions dated (II) (III): 21 November 1951 and letter of 22 May 1952. 28 Dec. 1954 and 2 Febr. 1955 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 1-15-54 Date reported to Nautical Chart Branch (IV): 2-11-54

Applied to Chart No. Date: Date registered (IV): 19 Sept 1957

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): M.H.W.

~~Mean sea level except as follows:~~
~~Elevations shown as (25) refer to mean high water~~
~~Elevations shown as (3) refer to sounding datum—i.e., mean low water or mean lower low water~~

Reference Station (III): HOUSTON, TRINITY PORTLAND CEMENT CO., STACK, 1942

Lat.: 29° 45' 27.353" (842.2m) Long.: 95° 19' 59.512" (1598.9m.) Adjusted ~~Unadjusted~~

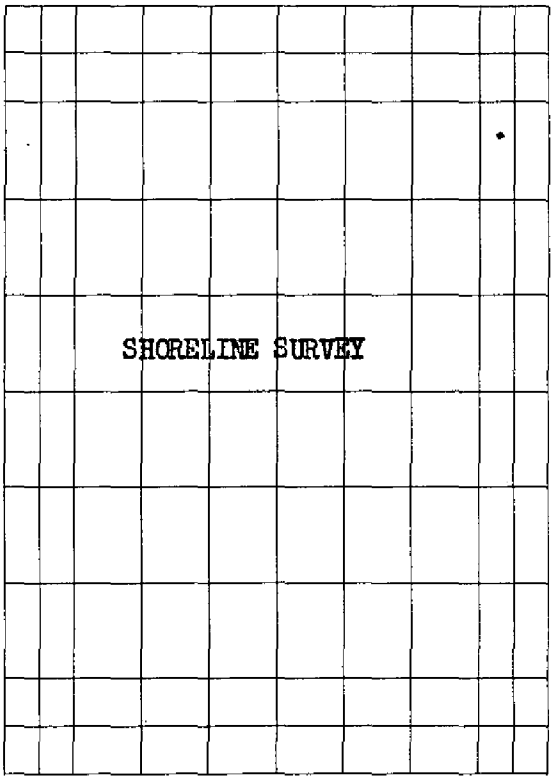
Plane Coordinates (IV): State: Zone:

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

M-2618-12 (4)

DATA RECORD

Field Inspection by (II): W. M. Reynolds & W. H. Shearouse Date: June 1952

Planetable contouring by (II): Not applicable. Date:

Completion Surveys by (II): L. F. Woodcock (See completions report) Date: 26 April 1955

Mean High Water Location (III) (State date and method of location): 6 June 1952
Air Photo Compilation

Projection and Grids ruled by (IV): Jack Allen (W.O.) Date: 25 Nov. 1952

Projection and Grids checked by (IV): H. D. Wolfe (W.O.) Date: 25 Nov. 1952

Control plotted by (III): R. J. Pate Date: 23 Dec. 1952

Control checked by (III): I. I. Saperstein Date: 19 Jan. 1953

Radial Plot ~~or Stereoscopic Control extension~~ by (III): M. M. Slavney Date: 14 Jul. 1953

Stereoscopic Instrument compilation (III): Planimetry Inapplicable Date:
Contours Date:

Manuscript delineated by (III): W. H. Shearouse Date: 3 Dec. 1953

Photogrammetric Office Review by (III): J. A. Giles Date: 21 Dec. 1953

Elevations on Manuscript checked by ~~All~~ (III): Inapplicable Date:

M-2618-12(4)

Camera (kind or source) (III): Fairchild Cartographic Camera "0" 6" focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
51-0-5641	4 May 1951	0842	1:10,000	Negligible
51-0-5642	"	0842	"	"
51-0-5643	"	0842	"	"
51-0-5644	"	0843	"	"
51-0-5645	"	0843	"	"

Camera "W"
54-W-3167 to 3170 ind. 19 Oct. 1954 1:30 000
54-W-3150 and 3151 " " "

Tide (III)

Inapplicable

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Leroy T. Stevens and J. J. Streifler Date: 10 Feb. 1954 15 Apr. 1957

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 6

Shoreline (~~More than 200 meters to opposite shore~~) (III): 3

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): Not applicable.

Number of Triangulation Stations searched for (II): 18 Recovered: 10 Identified: 12

Number of BMs searched for (II): 0 Recovered: Identified:

Number of Recoverable Photo Stations established (III): 1

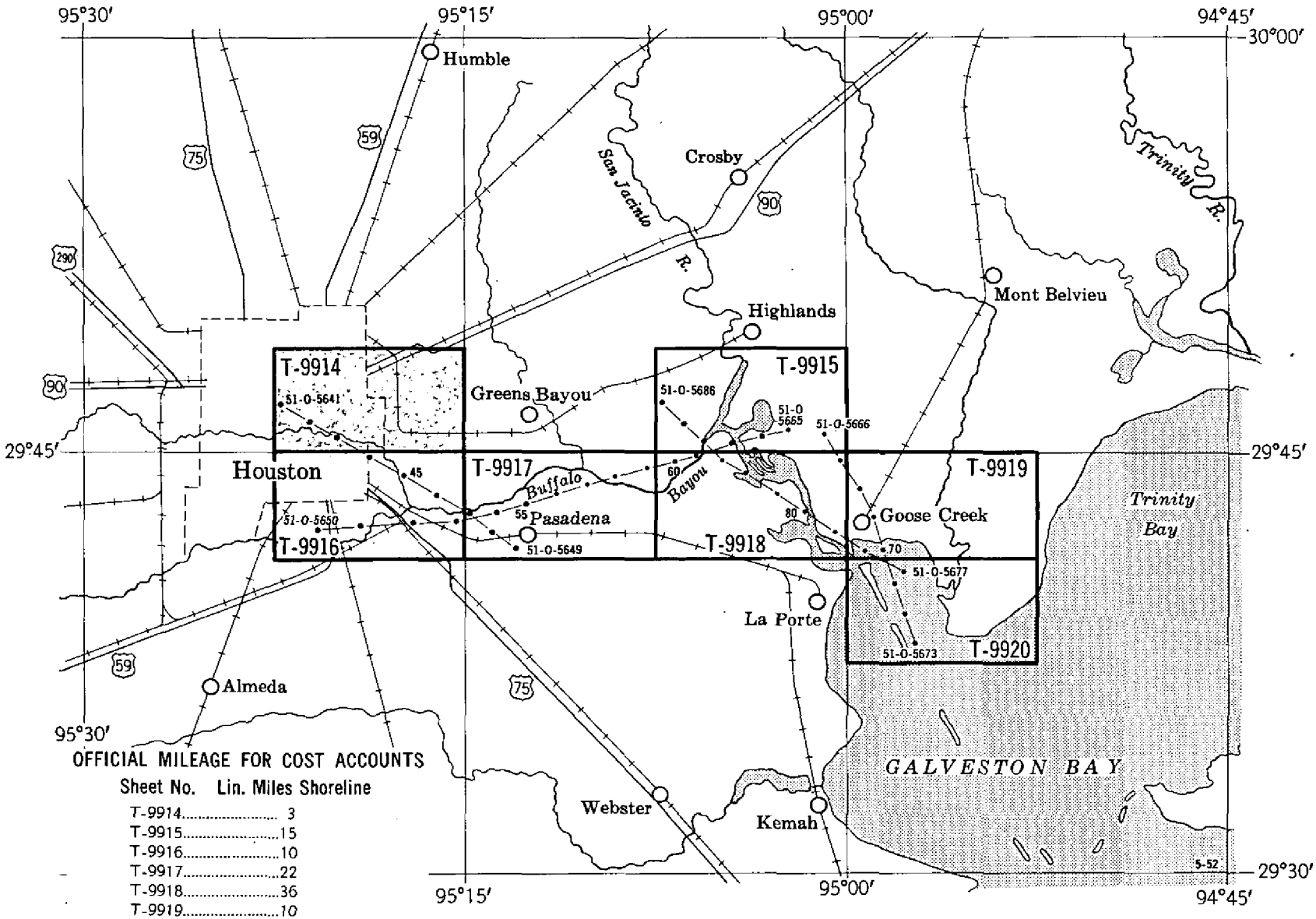
Number of Temporary Photo Hydro Stations established (III): 0

Remarks:

M-2618-12(4)

SHORELINE MAPPING PROJECT PH-76

TEXAS, Houston to Galveston Bay (Buffalo Bayou)



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Lin. Miles Shoreline
T-9914	3
T-9915	15
T-9916	10
T-9917	22
T-9918	36
T-9919	10
T-9920	10
TOTAL	106

Compiled at scale 1:10,000 from 1:24,000 scale single-lens photographs taken May 1951

(Refer to Air-Photo Indexes 99-E and 99-F)

Summary to Accompany T-9914

Project Ph-76(51) consists of seven map manuscripts, 1:10,000 scale, which delineate the shoreline and the inland area for one-half mile each side of the Houston Ship ~~Canal~~ Channel from Galveston Bay to the city of Houston.

T-9914 includes that part of Houston along Buffalo Bayou from the Turning Basin at the west end of the Ship ~~Canal~~ Channel to the vicinity of Sam Houston Park.

After smooth drafting and printing a ~~cloth-backed~~ cronar film positive ~~copy~~ of the map and the descriptive report will be registered and filed in the Bureau Archives.

When all the maps of the project have been thus registered, a Completion Report for the whole project will be written. It will describe the whole project as to purpose, reports, and records turned in and filed.

FIELD INSPECTION REPORT IS BOUND WITH T-9916

Field edit report is bound with Completion Report.

COMPILATION REPORT T-9914

PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted with T-9915.

31. DELINEATION.

The graphic method was used.

Field inspection notes plus plans of railroad yards and other clarifying supplemental data proved adequate.

Coverage was by a single flight of photographs and in some areas only two-cut intersections could be obtained for detail points. These were shown by green circles. West of longitude 95° 21' delineation was entirely from two-cut intersections..

The scale of the photographs was fair to good.

The limits of Sam Houston Park at latitude 29° 45'.6, longitude 95° 22'.3, were not obtained by the field inspector, therefore are not shown on the map manuscript.

32. CONTROL.

Horizontal control proved adequate with reference to identification, density and placement.

33. SUPPLEMENTAL DATA.

Plans for the machine contract building and adjacent wharf of Brown and Root, Inc., submitted as Map Nos. 8 and 9, were reduced to mapping scale by pantograph.

Other maps, such as railroad yard detail plans, were used for clarification of photographs. They are listed under Item 14, *Field Inspection Report bound with T-9916*

34. CONTOURS AND DRAINAGE.

Contouring inapplicable.

The drainage - short intermittent streams feeding into the White Oak River and Buffalo Bayou - has been delineated as interpreted from the photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

The field note "shoreline is bank of stream", bulkhead labels, etc., proved adequate for shoreline delineation.

Tides were negligible and no low-water or shoal lines were shown.

36. OFFSHORE DETAILS.

None

37. LANDMARKS AND AIDS.

There are no aids to navigation. The only landmark - TANK, 1952 - was located by two-cut intersection. fm 524 fm 567

38. CONTROL FOR FUTURE SURVEYS.

Form 524 also 567 has been submitted for one recoverable topographic station. It is listed under Item 49.

39. JUNCTIONS.

A satisfactory junction has been made with T-9916 on the south. There is no contemporaneous survey to the west, north or east.

40. HORIZONTAL AND VERTICAL ACCURACY.

Vertical accuracy inapplicable.

See Item 31 regarding two-cut detail points.

41. BRIDGES AND CABLE CLEARANCES.

See Field Inspection Report pp. 11, 11a, 11b, Item 12, bound with T-9916.

Bridge clearances west of the mouth of White Oak River have not been shown as the water is not navigable. Overhead cable clearances are listed under Item 12.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Army Map Service 1:25,000 scale topographic quadrangle SETTEGAST, TEXAS, edition of 1947. Agreement is excellent, only man-made changes being noted. Where new streets have been constructed they are shown as isolated developments, if outside the half-mile limit.

Comparison was also made with USC&GS Topographic Survey No. 4621. Some differences were noted in the shoreline along the northwest side of the Houston Ship Channel Turning Basin.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 590. It is a 1:10,000 scale harbor chart, published in 1952 and corrected to 24 March 1952. The only part of the map manuscript covered by the nautical chart is the northern half of the Turning Basin and approximately a thousand feet of Buffalo Bayou.

It was noted that shoreline and shoreline structure changes have occurred along the west and northwest side of the Turning Basin. Also, Buffalo Bayou is approximately one hundred feet wider than shown on the chart.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

Correction of shoreline and shoreline structure along west and northwest side of Turning Basin.

ITEMS TO BE CARRIED FORWARD.

None.

William H Shearouse
William H. Shearouse
Cartographer

APPROVED AND FORWARDED
J E Waugh
J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

BOOKER T. WASHINGTON HIGH SCHOOL
BUFFALO BAYOU

CANAL STREET
CLINTON DRIVE (add Drive on map)
N
FANIN STREET
FRANKLIN AVENUE

GALVESTON HOUSTON AND HENDERSON RAILROAD
GRAND CENTRAL STATION

HOUSTON Houston Ship Channel (for title)
HOUSTON AVENUE
HOUSTON BELT AND TERMINAL RAILWAY ~~ROAD~~

JENSEN DRIVE

LOCKWOOD DRIVE

M K T RAILROAD
MAIN STREET
MC CARTY AVENUE - not shown on map - name ok.
MISSOURI PACIFIC RAILROAD

NAVIGATION BOULEVARD
NORTH MAIN STREET

OLD SPANISH TRAIL Wayside Drive

PRESTON AVENUE

SAM HOUSTON COLISEUM
SAM HOUSTON HIGH SCHOOL
SAM HOUSTON PARK
SETTEGAST PARK
ST. VINCENT CEMETERY
STATE 225
STATE 149

TEXAS
TEXAS & NEW ORLEANS (SOUTHERN PACIFIC RAILROAD)
TURNING BASIN

48. GEOGRAPHIC NAME LIST (CONTINUED)

UNION STATION
U. S. 59
[redacted]
U. S. 90
U. S. 290

U.S 90 ([redacted]) on Wayside Drive

WHITE OAK BAYOU

Harrisburg Boulevard
Congress Avenue
McKee Street
San Jacinto Street
Milam Street

Names approved
2-10-54.
L. Heck

49. NOTES FOR THE HYDROGRAPHER.

The following topographic station will be of value to the hydrographic party:

. TANK, 1952 (forms 524 & 567)

Photogrammetry

MAP T- 9914 PROJECT NO. PH-76(51) SCALE OF MAP 1:10,000 SCALE FACTOR -

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
HOUSTON, MERCHANTS & MANUFACTURING COMPANY, SOUTH WATER TANK, 1942	G.P's Pg 280	N.A. 1927	29 45 56.282 95 21 32.138			1732.9 (114.5) 863.4 (748.5)	
HOUSTON, MERCHANTS & MANUFACTURING COMPANY, NORTH WATER TANK, 1942	" Pg 280	"	29 45 57.054 95 21 31.911			1756.7 (90.7) 857.3 (754.6)	
HOUSTON, JEFFERSON DAVIS HOSPITAL CHIMNEY, 1942	" Pg 281	"	29 45 36.478 95 23 02.062	West of project		1123.2 (724.2) 55.4 (1556.6)	
HOUSTON, ESPERSON BUILDING, DOME, 1931	" Pg 281	"	29 45 30.978 95 21 53.312			953.8 (893.6) 1432.3 (179.7)	
HOUSTON, TRINITY PORTLAND CEMENT CO., STACK, 1942	" Pg 281	"	29 45 27.353 95 19 59.512			842.2 (1005.2) 1598.9 (13.1)	
HOUSTON, GULF BLDG., FLAGPOLE, 1931	" Pg 285	"	29 45 31.120 95 21 48.917			958.2 (889.2) 1314.2 (297.8)	

1 FT. = .3048006 METER

COMPUTED BY: I.I.Saperstein DATE 5 Nov. 1952 CHECKED BY: R.J.Pate DATE 5 Nov. 1952

M-2388-12

00

Photogrammetry

MAP T- 9914 PROJECT NO. PH-76(51) SCALE OF MAP 1:10,000 SCALE FACTOR -

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
WHEATLEY (H.L. & P.CO.), 1939	G.P's Pg 458	N.A. 1927	29 46 33.175 95 20 07.063	Sta. destroyed - but used show with red tri.		1021.5 (825.9) 189.7 (1422.0)	
HOGG (H.L. & P.CO.), 1938	" Pg 458	"	728,893.3 3,146,146.6	3,893.3 (1106.7) 1,146.6 (3853.4)	West of project		
COMPRESS (H.L. & P.CO.),1938	" Pg 457	"	29 47 24.670 95 20 48.627			759.6 (1087.8) 1306.0 (305.5)	
GULF (H.L.& P. CO.), 1942	" Pg 271	"	29 45 30.973 95 21 48.843	3 meters from Houston Gulf Building Flagpole NOT PLOTTED		953.7 (893.7) 1312.3 (299.8)	
HOUSTON, STANDARD RICE CO., WATER TANK, 1942	" Pg 280	"	29 45 48.885 95 23 23.522		West of project	1505.2 (342.2) 631.9 (980.0)	

1 FT. = .3048006 METER

COMPUTED BY: I.I.Saperstein DATE 5 Nov. 1952 CHECKED BY: R.J.Pate DATE 5 Nov.1952

M-2388-12

PHOTOGRAMMETRIC REVIEW BRANCH

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Tampa Photogrammetric Office
Tampa, Florida 14 December, 1953

I recommend that the following objects which ~~have~~ have not 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 by William H. Shearouse, Cartographer

J. E. Waugh *Chief of Party.*

STATE TEXAS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	″ D.M. METERS	POSITION LONGITUDE* ° ′	″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TANK	Steel, aluminum-colored. (142 ft. high 172 ft above MHW)		29 45	11.27 347	95 17	32.45 872	N.A. 1927	Radial Plot T-9914	1952	X			590
													6

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

Form T-2

50

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9914

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. Photo hydro stations XX 8. Bench marks XX 9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges J.G. 16. Aids to navigation XX 17. Landmarks J.G. 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines XX

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles — Reviewer; William A. Rasure — Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler _____ Supervisor _____

43. Remarks:

M-2623-12

See also Supplemental Review ~~Report~~ ! Report - next page.

Review Report
Shoreline Survey, T-9914
10 February 1954

62. Comparison with Registered Topographic Surveys.-

T-4621 1:5,000, 1931, Clarion to Turning Basin, shoreline and a 20-foot contour.

Except for the contour T-9914 supersedes the older survey for charting purposes.

63. Comparison with Maps of Other Agencies.-

AMS Quad. Settegast 1:25,000, 1947
USGS Quad. Settegast, 1:31,600, ed. 1922, rep. 1942

The present survey supersedes the quadrangles for shoreline and those cultural features noted by the field inspector.

64. Comparison with Contemporary Hydrographic Surveys.-

No hydrographic surveys were made since the 1931 series H-5121 to 5128, incl., 1:5,000.

65. Comparison with Nautical Charts.-

590 1:10,000 1st combined ed. 1952, Houston Ship ~~Canal~~ Channel, Carpenter Bayou to Houston.

Only the north end of the Turning Basin falls on T-9914. This part of the Basin shoreline and wharf structures have changed since the chart was constructed.

66. Accuracy.- This map conforms to the project instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED:

LeLande
Chief, Review Branch
Div. of Photogrammetry

Max B. Hicks Otto
Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

Supplemental Review Report
of Shoreline Surveys T-9914 to T-9920 inclusive
after revision based on single-lens photography of October, 1954
and shoreline inspection of 1955
15 April 1957

Items 62 to 65 inclusive were covered in this review of subject manuscripts after extensive changes and additions of aids to navigation, shoreline, foreshore and offshore features and planimetry. Revisions were applied as per supplemental instructions and extend approximately two miles west of limit of Nautical Chart No. 590. Nautical charts of identical areas:

588	1:10000	corrected	to 55 10/31
589	1:10000	corrected	to 57 2/11
590	1:10000	corrected	to 57 2/11
1282	1:80000	corrected	to 56 4/30

have not been revised to incorporate all changes shown on these shoreline surveys in red ink (result of 1954 photography and 1955 shoreline inspection) and should be given consideration as early as appropriate. The revised shoreline manuscripts have been found to be adequate and no deficiencies in accuracy were indicated.

Reviewed by:

Joseph J. Streifler

APPROVED:

R C Landy
Chief, Review and Drafting Section, Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Coastal Surveys

Chief, Photogrammetry Division

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/17/54	590	C. Leich	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.