9187

Diag. Cht. No. 1286-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. PH-36(48) *Office No.* T-9187

LOCALITY

State Texas

General locality Corpus Christi

Locality Oso Bay

1951

CHIEF OF PARTY

George E. Morris, Chief of Field Party

Hurbert A Paton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE February 21, 1955

8-1870-1 (1)

9187

DATA RECORD

T - 9187

Project No. (II): Ph-36(48)A Quadrangle Name (IV): Oso Creek, NE

Field Office (II): Corpus Christi, Texas Chief of Party: G. E. Morris, Jr.

Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: Hubert A. Paton

Instructions dated (II) (III):
14 February 1949, Supplement No. 1 (Field) 9 May 1949
Supplement No. 2 (Field) 26 July 1949
Supplement No. 2 (Field) 28 July 1949
Office compilation Assignment, 8 June 1949

Copy filed in Division of Photogrammetry (IV): Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 9-19-50 Date reported to Nautical Chart Branch (IV): 9-26-50

Applied to Chart No. 893 Date: 11-17-51 Date registered (IV): 8-18-53
1286 11-14-50

Publication Scale (IV): Not to be published Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): MHW

~~Mean sea level~~ except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): CALLO, 1933

Lat.: 27° 42' 39.666" (1221.0m) Long.: 97° 18' 47.218 (1293.6m) Adjusted / Unadjusted

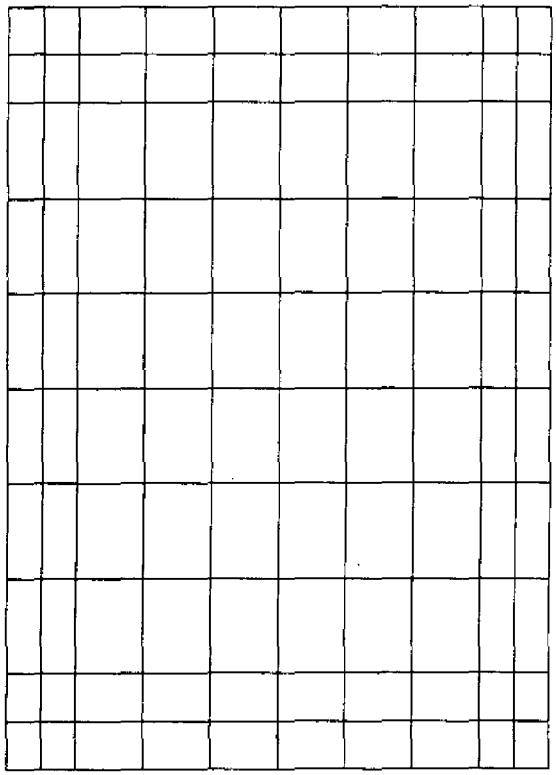
Plane Coordinates (IV): State: Texas Zone: South

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)

Planimetric

DATA RECORD

Field Inspection by (II): H. M. White — Date: June 1949

Planetable contouring by (II): None — Date:

Completion Surveys by (II): W.H. Shearouse — Date: 1951

Mean High Water Location (III) (State date and method of location): identified on field photographs 12-9-48

Projection and Grids ruled by (IV): WEW — Date: 6-27-49

Projection and Grids checked by (IV): HDW — Date: 6-29-49

Control plotted by (III): F.J.Tarcza — Date: 8-5-49

Control checked by (III): M.F.Kirk — Date: 9-1-49

Radial Plot ~~or Stereoscopic~~ Control extension by (III): F.J.Tarcza — Date: 9-30-49

Stereoscopic Instrument compilation (III): Planimetry — Date:

Contours — Date:

Manuscript delineated by (III): G.N.Nathan — Date: 4-3-50
M.L.Bloom 8-29-50

Photogrammetric Office Review by (III): J.W.Vonasek — Date: 5-24-50
-9-11-50

Elevations on Manuscript checked by (II) (III): J. W. Vonasek — Date: 5-18-50

M-2618-12(4)

Camera (kind or source) (III): USC&GS single-lens, Type "O" camera, focal length 6 inches.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
48-0-1167 to 48-0-1170	12-8-48	1124	1:20,000	Negligible
48-0-1142 to 48-0-1145	12-8-48	1105	1:20,000	"
* 48-0-1742 to 48-0-1752	12-9-48	1244	1:20,000	"
* 48-0-1839 to 48-0-1845	12-9-48	1351	1:20,000	"
* 25774 to 25775	5-4-50	1456	1:20,000	"

* Not used in radial plot.

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	Spring Range
1.0	1.0	1.4
1.1	1.1	1.5

Reference Station: GALVESTON, GALVESTON CHANNEL

Subordinate Station: ARANSAS PASS

Subordinate Station: The mean range of tide in Laguna Madre and Oso Creek is less than ½ foot

Washington Office Review by (IV): C. Theurer Date: 10-14-53

Final Drafting by (IV): E L Hunter Date: 5-21-53

Drafting verified for reproduction by (IV): Wm D. Hallum Date: 5-18-53

Proof Edit by (IV): H Stauffer Date: 6-10-53

Land Area (Sq. Statute Miles) (III): 30

Shoreline (More than 200 meters to opposite shore) (III): 46 miles

Shoreline (Less than 200 meters to opposite shore) (III): 6 miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 32 Recovered: 18 Identified: 9

Number of BMs searched for (II): 22 Recovered: 19 Identified: 19

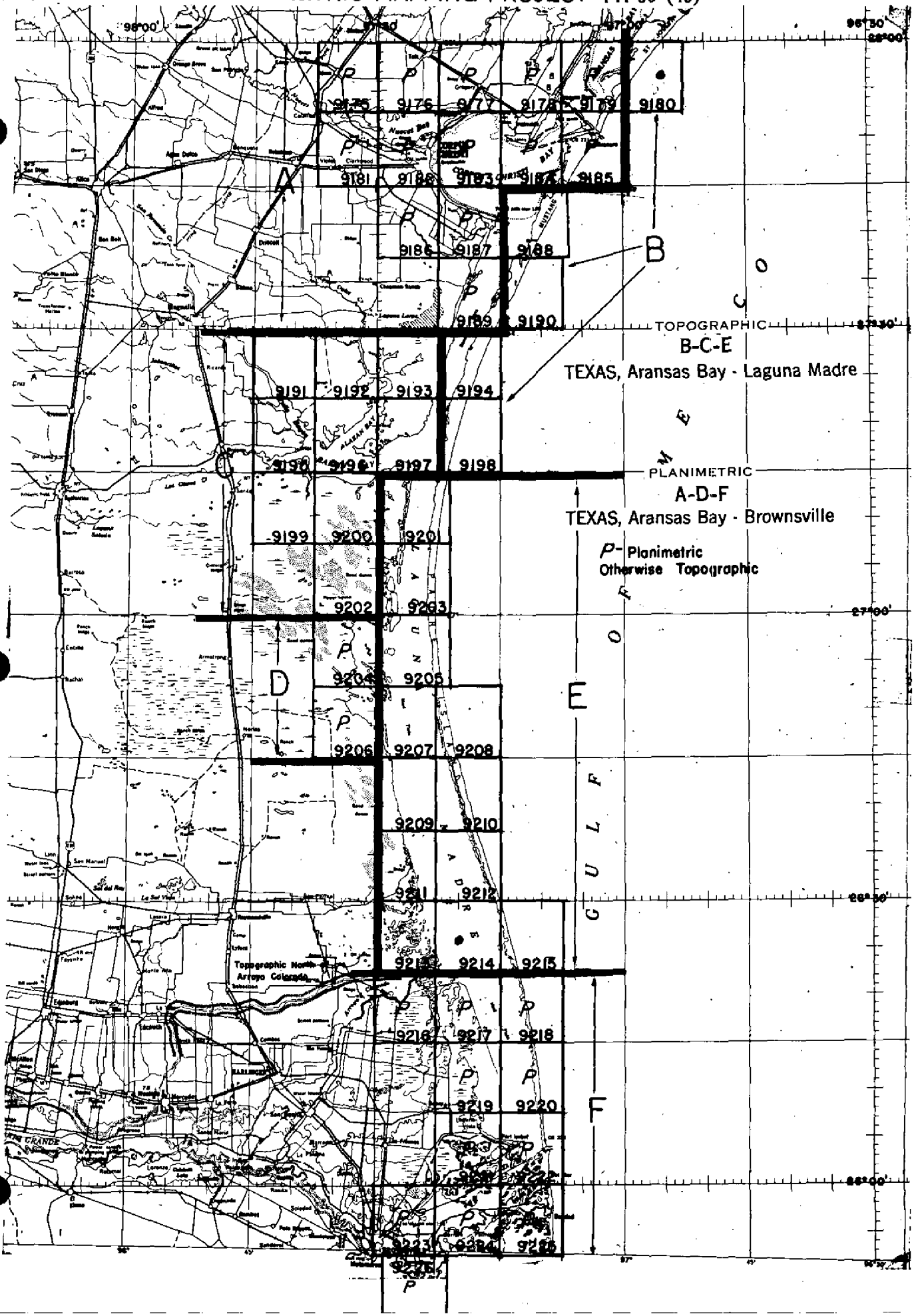
Number of Recoverable Photo Stations established (III): 9

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

M-2618-12(4)

TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT PH-36 (48)



Summary T-9187

Project Ph-36(48) consists of fifty-two quadrangles at 1:20,000, each 7.5 minutes in latitude and longitude, covering the Gulf Coast of Texas and the Intracoastal Waterway from Aransas Bay to Brownsville and the Mexican Border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-14(46).

Information concerning Ph-36(48) in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project.

Twenty-six of the quadrangles in this project are topographic surveys and are to be published at 1:24,000 scale by the Geological Survey. The other twenty-six quadrangles are planimetric surveys. Of these, nineteen are to be used as bases by the Geological Survey for the compilation of 7.5 minute topographic quadrangles and will not be published as planimetric maps. The remaining seven, T-9175, T-9176, T-9177, T-9181, T-9189, T-9204, and T-9205, will be published as planimetric maps.

Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau Archives. Cloth-backed copies of the published topographic quadrangles at 1:24,000 scale will also be filed.

All special reports except the Geog Names Report will be filed in the Project Completion Report.

AREAL FIELD INSPECTION

This planimetric quadrangle is located in South Texas, covering a small portion of and adjacent to Corpus Christi. The area covered by this quadrangle is composed of land and water. The land is flat and fertile,ideal for farming. The principal crop is cotton.

In addition to farming, the exploration and development of the oil industry is very prominent. Considerable drilling operations are in progress south of the Naval Air Station, on the west side of Laguna Madre. New channels being dug for drilling sites and spoil being thrown on the sides of the channels will necessitate a field edit investigation.

A causeway to Padre Island is now under construction. The construction was not far enough advanced for this party to locate the causeway in its' correct position and it will have to be located by field edit.

This area is accessible by a number of good highways leading out of Corpus Christi; State Highways 357 and 358, Ocean Drive, South Staples Street and Alameda Street. Also the Texas-Mexican Railroad.

The principal features of this quadrangle are the railroad, road system, Naval Air Station, Oso Creek, Oso Bay and Laguna Madre.

The land in the area is very dark and in most cases the photographs have a greyish tone even though parts of the area are used for pasture. It is believed that this is caused by the color of the soil and the photography being done in the winter, when the grass had little growth.

The numerous white spots which show on the photographs along the shoreline are dumps of spoil from drilling operations and digging of channels. These spots have bleached in the sun and show very white. They have been labeled as spoil on the photographs.

3. HORIZONTAL CONTROL

The following USC&GS triangulation stations were searched for but not recovered:

BRIGHTON, 1933
DON PATRICIO CAUSEWAY LIGHT, 1934
FLOUR POINT BLUFF, LEWIS CHEMNEY, 1933
HOUSE, RED ROOF, CENTER, 1912

MEXICAN HOUSE, CENTER, 1912
RITTER'S WINDMILL, 1905
SEBASTIAN WINDMILL, 1939
WATER TANK, NEAR LAGUNA MADRE NORTH BASE, 1905
WINDMILL, 1912
WINDMILL NEAR BARN, 1912
WINDMILL NEAR DUNCAN'S HOUSE, 1912
WINDMILL "D", 1912
WINDMILL NEAR GREEN ROOFED HOUSE, 1912
WINDMILL NO. 1, 1905
WINDMILL NO. 2, 1905

4. VERTICAL CONTROL

All USC&GS, USGS and USN B.M.'s within this quadrangle were searched for or recovered. The following B.M.'s were recovered and identified:

USC&GS B.M.'s:	A 910		J 610
	B 910		K 610
	X 909		M 610
	Y 909		N 610
	Z 909		P 610
	D 610		
	E 610	USN B.M.'s:	CB 2
	F 610		CB 4
	H 610		CB 9
			CB 10
			CB 11

5. CONTOURS AND DRAINAGE

As this is a planimetric map, no contouring was done.

The major drainage is Oso Creek which enters the southwest part of the quadrangle from the west. This creek empties into Oso Bay which flows from south to north and empties into Corpus Christi Bay.

6. WOODLAND COVER

All woodland consists of small acreages of mesquite and chaparral. This is of the scrub variety and has been classified as such in accordance with Photogrammetric Instructions No. 21, dated 18 August 1948.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline in this quadrangle consists of Corpus Christi Bay, Oso Bay, Oso Creek and Laguna Madre. Along Corpus Christi Bay, a bluff runs in an east-west direction. There are numerous bulkheads of various construction, docks and piers. The Laguna Madre shoreline is low and sandy and considerable areas are awash in high easterly winds. Oso Creek and Oso Bay are shallow bodies of water which flood in the wet season and during

the hot season are practically dried up. The shoreline was drawn in after a rain period.

8. OFFSHORE FEATURES

It will be noted that on photograph 48-0-1751, there is a number of offshore deletions. These are the vessels and equipment of a dredge engaged in the construction of and the filling behind a bulkhead. See photograph 48-0-1166 for a more clear detail. On photograph 48-0-1746, submerged piling was found off the bulkhead in front of the University of Corpus Christi. This appears to be the ruins of an old pier. Measurements were taken from points pricked on the photograph and a form M-2226-12 submitted.

9. LANDMARKS AND AIDS

Chart letters 268(50) & 855(51)

There are three new landmarks within this quadrangle that are recommended for nautical charts. These have been identified on the photographs and described on Form 567.

A "Special Report, Location of Aids to Navigation, Project Ph-36(48), Latitude 28° 00' to Baffin Bay", will be submitted at a later date.

The daybeacons along the Navy Crash Boat Channel were located by theodolite cuts from photo. points. These aids are not listed and were treated as private aids to navigation by this party. Mapped as Piles.

10. BOUNDARIES, MONUMENTS AND LINES

All information on boundaries, monuments and lines will be submitted at a later date in "SPecial Report, Boundaries, Project Ph-36(48), Baffin Bay to Latitude 28° 00'."

11. OTHER CONTROL

The following recoverable topographic stations were established by this party:

Cupola, 4109 Ocean Drive
Two boundary monuments of Peary Place.
Four boundary monuments of Naval Air Station.

12. OTHER INTERIOR FEATURES

All road classification was done in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947 as amended 24 October 1947.

All buildings and structures were classified in accordance with Photogrammetry Instructions No. 29, dated 10 October 1948. Extensive housing developments are underway in the west sector of this quadrangle. The size, shape and location of all new

buildings which were near completion, have been shown on the photographs. It is recommended that field edit make a thorough check on construction now underway.

All bridges are fixed and no bridges over navigable waters are located within the quadrangle. One bridge over Oso Bay is listed in the bridge book but should be removed as Oso Bay is not navigable except for skiffs and then only during the rainy season.

A letter to the District Engineer, U. S. Army has been written to this effect.

In this area are located the U. S. Naval Air Station and Waldron Field. The Naval Air Station covers a large portion of the northeast corner of this quadrangle and is the main base for the advanced naval air training facilities in this vicinity. The runways of the airport are suitable for all types of planes. Waldron Field is an auxiliary field, which is inoperative at the time of this survey. The Navy radio range is located about 2.5 miles south of the air station along Laguna Madre. There are no civil airports within the quadrangle.

13. GEOGRAPHIC NAMES

The investigation of geographic names is now in progress and will be the subject of a special report which will be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special reports affecting this map are:

"Special Report, Location of Aids to Navigation, Project Ph-36(48), Latitude 28° 00' to Baffin Bay."
Forwarded to Washington, 28 June 1949.

"Special Report on Supplemental Control, Project Ph-36(48)."
Forwarded to Washington, 28 June 1949.

"Special Report, Boundaries, Project Ph-36(48), Baffin Bay to Latitude 28° 00'."
Forwarded to Washington, 11 July 1949.

A special report on geographic names will be submitted at a later date. The title of, and the area covered by this report is not know at the present time.

Special maps or plates to be submitted:

"Map of Naval Air Station, Corpus Christi" denoting the railroad system which coincides with the present trackage. This map is in two parts.

Detail Plans, Laguna Madre Causeway.

Field records for quadrangle T-9187( ) to Baltimore, 22 July 1949; transmittal, Ph-36 Field 21.

Form 567, Landmarks and Aids to Navigation, to Washington, 1 July 1949; transmittal, Ph-36 Field 13.

Form 567, Landmarks and Aids to Navigation to Baltimore, 1 July 1949; transmittal, Ph-36 Field 14.

Form 567, Private Aids to Navigation, Quadrangles T-9187 ( ) and T-9188 ( ), to Washington, 25 July 1949; transmittal Ph-36 Field 23.

Approved:

(Signed) George E. Morris, Jr.
Chief of Party

Submitted:

(Signed) Harry M. White
Cartographic Survey Aid

Photogrammetry

MAP T. 9187 PROJECT NO. Ph-36(48)A SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

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)
ABER, 1933	G-2874 P.67	N.A. 1927	27 43 47.740			1469.5 (377.4)	
			97 21 18.310			501.5 (1141.9)	
SUB.PT. ABER, 1933			27 43			1477.6 (369.3)	
			97 21			548.1 (1095.3)	
CALLO, 1933	G-2874 P.67	"	27 42 39.666			1221.0 (625.9)	
			97 18 47.218			1293.6 (350.2)	
SUB. PT. CALLO, 1933			27 42			1317.1 (529.8)	
			97 18			1404.3 (239.5)	
DEMIT, 1912	G-6538 P.149	"	27 41 36.166			1113.2 (733.6)	
			97 15 01.848			50.6 (1593.4)	
SUB.PT. DEMIT, 1912			27 41			1018.5 (828.3)	
			97 15			9.2 (1634.8)	
LAGUNA MADRE NORTH BASE, 1882	G-2874 P.54	"	27 40 10.673			323.5 (1518.3)	
			97 16 19.591			536.9 (1107.4)	
ENCINAL CHANNEL LIGHT 31, 1949	G-8133 P.6	"	27 44 40.789			1255.5 (591.3)	
			97 15 47 .697			1306.3 (336.9)	
ENCINAL CHANNEL LIGHT 32, 1949	G-8133 P.6	"	27 44 42.754			1316.0 (530.8)	
			97 15 53.266			1458.8 (184.2)	
SPOIL BANK LIGHT, 1949	" "	"	27 44 07.624			234.7 (1612.2)	
			97 16 28.655			784.9 (858.5)	
SPOIL, 1949	" 1	"	27 44 11.406			351.1 (1495.8)	
			97 16 32.355			886.2 (757.2)	
ABER REFERENCE MARK (USE) 1949	G-8133 P.1	"	27 43 49.178			1513.7 (333.1)	
			97 21 18.812			515.3 (1128.2)	

Page L2

1 FT. = .3048006 METER

COMPUTED BY: F. J. Tareza DATE 5 August 1949 CHECKED BY: M.F.Kirk DATE 24 August 1949

M-2388-12

(b)

Photogrammetry

MAP T- 9187 PROJECT NO. Ph-36(48)A SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

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)
FLOUR BLUFF, SCHOOL CUPOLA, 1949	G-8043 P.12	N.A. 1927	27 38 48.14			1481.7 (365.1)	
			97 17 45.14			1237.4 (407.3)	
US NAVAL AIR STATION WATER TANK, 1949	G-8043 P.12	"	27 41 37.80			1163.5 (683.3)	
			97 16 05.77			158.1 (1486.0)	
US NAVAL AIR STATION LAND PLANE CONTROL TOWER, 1949	G-8133 P.1	"	27 41 29.275			901.1 (945.7)	
			97 16 54.780			1501.0 (143.0)	
US NAVAL AIR STATION BOQ POWER PLANT STACK, 1949	G-8133 P. 1	"	27 41 27.821			856.4 (990.5)	
			97 15 30.771			843.2 (800.9)	
US NAVAL AIR STATION N RADIO TOWER, 1949	G-8133 P.1	"	27 40 59.730			1838.5 (8.3)	
			97 15 58.650			1607.2 (37.0)	
US NAVAL AIR STATION (SOUTH) RADIO TOWER, 1949	G-8043 P.12	"	27 40 55.76			1716.3 (130.5)	
			97 15 58.67			1607.7 (36.4)	
US NAVAL AIR STATION WEST RADIO TOWER, 1949	G-8133 P.1	"	27 40 57.780			1778.5 (68.3)	
			97 16 02.510			68.8 (1575.4)	
WARD ISLAND, UNIV. OF CORPUS CHRISTI, TOWER, 1949	G-8043 P. 12	"	27 42 53.44			1644.9 (201.9)	
			97 19 41.54			1138.0 (505.7)	
WALDRON FIELD, CONTROL TOWER, 1949	G-8043 P.13	"	27 37 51.92			1598.1 (248.7)	
			97 18 44.35			1215.9 (429.1)	
RODD FIELD STACK, 1949	G-8043 P.13	"	27 38 55.26			1700.9 (145.9)	
			97 22 22.81			625.2 (1019.4)	
No. 8 (USE) 1949	G-8043 P. 8	"	27 40 13.55			417.1 (1429.7)	
			97 16 12.96			355.2 (1289.2)	

Page 13

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: M.F.Kirk DATE 24 August 1949 CHECKED BY: F.J.Tarcza DATE 8/24/49

Photogrammetry

MAP T- 9187 PROJECT NO. Ph-36(48) SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

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)
No. 9 (USE) 1949	G-8043 P.8	N.A. 1927	27 40 05.38 97 16 18.40			165.6 1681.2 504.3 1140.1	

Page 14

1 FT. = .3048006 METER

COMPUTED BY: M.F.Kirk DATE 24 August 1949 CHECKED BY: F.J.Tarcza DATE 8/24/49

M-2388-12

COMPILATION REPORT

T-9187

PHOTOGRAMMETRIC PLOT REPORT

The radial plot report for this area is bound with the Descriptive Report for Survey No. T-9175, submitted to the Washington Office on 16 December 1949.

31. DELINEATION

This manuscript was delineated by graphic methods only.

The field inspection on the whole was satisfactory.

This manuscript has been compared with nine lens photographs 25761 through 25763, and 25773 through 25776, dated 4 May 1950, scale 1:20,000. Revisions and additions have been made in red.

32. CONTROL

The identification, the density, and the placement of horizontal control were adequate.

33. SUPPLEMENTAL DATA

The following are the supplemental data used in conjunction with the compilation of this manuscript:

1. Final Names Sheet, dated 4 November 1949, on a copy of USGS Oso Creek, Texas, quadrangle.

2. Final Names Sheet, dated 4 November 1949, on a copy of USC&GS Chart No. 1286.

3. Final Names Sheet, no date, on a copy of Clarkson's City Map of Corpus Christi.

4. Layout of Rodd Field, U. S. Naval Air Station.

5. Layout of Waldron Field, U. S. Naval Air Station.

6. Layout of U. S. Naval Air Station, Main Field, at Corpus Christi.

7. Layout of Peary Place, U.S. Naval Housing Project.

8. Layout of Ward Island, formerly Naval Training School, now leased to the City of Corpus Christi.

9. Detail plans of the proposed Laguna Madre Causeway.

10. Photostat of the Zoning and Planning Commission map of Corpus Christi used for the location of the city limits of Corpus Christi that fall in

33. SUPPLEMENTAL DATA (continued)

Corpus Christi Bay.

11. Nueces County Highway Map showing the state highways and the Commissioner Precincts.

12. Special Boundaries Report, Baffin Bay to Latitude 28° 00', Project Ph-36(48).

13. Special Report, Location of Aids to Navigation, Latitude 28° 00' to Baffin Bay, Project Ph-36(48).

14. Field Books, Observations of Horizontal Directions, form No. 251a, Volumes 1 through 4, of 4 volumes, dated 1949.

15. District 16, Highway Map, with road information.

34. CONTOURS AND DRAINAGE

Contours - inapplicable.

Drainage - refer to paragraph 5 of the field report.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection of Oso Creek and Oso Bay ~~were~~ was not complete and, as a result, most of the mean high-water line was delineated from office interpretation of the photographs. Refer to paragraph 7 of the field report for this survey and survey No. T-9186 regarding the shoreline along Oso Creek.

36. OFFSHORE DETAILS

No comment.

Refer to paragraph 8 of the field report.

37. LANDMARKS AND AIDS

Forms 567 for the landmarks and nonfloating aids appearing on Survey No. T-9187 are submitted with this report.

The daybeacons along the Navy Crash Boat Channel and around the Seaplane Operating Area were numbered to conform with the numbering system of the field party. Mapped as Piles - not numbered

Seaplane Operating Area Daybeacon 10 was not plotted as the theodolite cuts did not intersect. There were two cuts each for Daybeacons 18, 19, and 20. Located by Field Editor

Refer to paragraph 9 of the field report.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted with this report for the nine recoverable topographic stations appearing on this manuscript. This number does not agree with that li,ted in paragraph 11 of the field report because two azimuth marks were plotted during compilation.

The recoverable topographic stations are listed under paragraph 49 of this report.

39. JUNCTIONS

Junctions have been made with Survey No. T-9186 to the west, Survey No. T-9188 to the east, and with Survey No. T-9189 to the south. The Junction with Survey No. T-9183 to the north is a water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey No. T-9187 has been compared with the U. S. Geological Survey Oso Creek, Texas, quadrangle, scale 1:62,500, edition of 1925, reprinted 1946, and with U.S.C.& G.S. Air Photo Compilation No. T-5365, scale 1:20,000, dated 1934.

47. COMPARISON WITH NAUTICAL CHARTS

Survey No. T-9187 has been compared with U.S.C.& G.S. Chart No. 523, scale 1:40,000, published May 8, 1950.

Items to be applied to nautical charts immediately:
Laguna Madre Causeway.
Items to be carried forward
None.

Respectfully submitted:
3 April 1950

Gladys N. Nathan
Cartographer (Photo)

Approved and forwarded
26 September 1950

Hubert A. Paton
Officer-in-Charge

48. GEOGRAPHIC NAMES

Airline Road

Commissioner Precinct IV
Corpus Christi
Corpus Christi Bay
Corpus Christi Naval Air ~~Base (Main Field~~ Station)
*It is believed that the official name is United States Naval Air Station.
Demit Island

Encinal Channel
Encinal Peninsula
Everhart Road

Flour Bluff
Flour Bluff Cemetery
Flour Bluff School

Gardendale
Humble Channel
King Ranch

Laguna Madre
Laguna Madre Causeway
Lexington Boulevard

Mud Bridge

Nueces County

Ocean Drive
Old Aberdeen Cemetery
Oso Bay
Oso Creek
Oso Fishing Pier
Oso Municipal Golf Course

Peary Place (U.S. Naval Housing Project)

Rodd ~~Field~~ Auxiliary Air Station
Sante Fe ~~Drive~~ Street (6-9-53, ajw)
Seaside Memorial Cemetery
South Alameda Street
South Staples Street
Sundeen High School
Sunshine Cemetery

Texas Highway 357
Texas Highway 358

U. S. Government Railroad
Waldron ~~Field~~ Auxiliary Air station
Ward Island

Naval Air Station Corpus Christi (official name of field)

(see F. Edit Report)

Names underlined in red are approved. 4-10-51. L. Heck

Papalote Norte Windmill

Windsor Park School
Blanche Moore School

University of Corpus Christi
U.S. Naval Hospital ~~Reservation~~ ajw
Waldron Field Road

49. NOTES FOR THE HYDROGRAPHER

The following is the list of recoverable topographic stations appearing on Survey No. T-9187.

CUPOLA, 4109 Ocean Drive

PT. No. 1 PEARY PLACE BOUNDARY

CONCRETE MONUMENT, PEARY PLACE BOUNDARY

BOUNDARY MONUMENTS OF U. S. NAVAL AIR STATION (four)

RODD AZ MK 1949

LAGUNA MADRE NORTH BASE AZ MK 1949

C
O
P
Y

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: NAS Post Office, Corpus Christi, Texas.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

21 July 1949

To: The District Engineer
Galveston District
Corps of Engineers
Galveston, Texas

Subject: Bridge over Navigable Water.

Reference: Supplement to 1941 Edition of List of Bridges over Navigable Waters of the United States, Page 40.

It is recommended that the highway bridge owned by the U.S. Navy over Oso Bay be removed from the reference publication.

This body of water is very shallow and not navigable even for outboard motor powered boats.

George E. Morris, Jr.
Lt. Comdr. U.S.C.& G.S.
Chief of Party

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9187

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy JWW 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JWW 7. ~~Photo hydro stations~~ _____ 8. Bench marks JWW
9. Plotting of sextant fixes None 10. Photogrammetric plot report JWW 11. Detail points JWW

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads JWW 28. Buildings JWW 29. Railroads JWW 30. Other cultural features JWW

BOUNDARIES

31. Boundary lines JWW 32. ~~Public land lines~~ _____

MISCELLANEOUS

33. Geographic names JWW 34. Junctions JWW 35. Legibility of the manuscript JWW 36. Discrepancy overlay JWW 37. Descriptive Report JWW 38. Field inspection photographs JWW 39. Forms JWW
40. Joseph W Vondrak (Reviewer) Joseph Steinberg (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

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

Baltimore, Maryland, ~~31 March~~, 19~~50~~

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 _____

Joseph W. Vonasek

Hubert A. Paton *Chief of Party.*

STATE: TEXAS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
DAYTON 3	~~Seaplane Operating Area~~		~~27 40~~	~~1435~~	~~97 15~~	~~783~~	NA 1927	Theodolite Cuts	~~1949~~	x	x		~~523~~ 1286
~~4~~	" " "		~~27 40~~	~~1398~~	~~97 15~~	~~674~~	"	"	"	x	x		"
~~5~~	" " "		~~27 40~~	~~1312~~	~~97 15~~	~~691~~	"	"	"	x	x		"
~~6~~	" " "		~~27 40~~	~~1210~~	~~97 15~~	~~710~~	"	"	"	x	x		"
~~7~~	" " "		~~27 40~~	~~1090~~	~~97 15~~	~~740~~	"	"	"	x	x		"
~~8~~	" " "		~~27 40~~	~~973~~	~~97 15~~	~~768~~	"	"	"	x	x		"
~~9~~	" " "		~~27 40~~	~~872~~	~~97 15~~	~~794~~	"	"	"	x	x		"
~~11~~	" " "		~~27 40~~	~~751~~	~~97 15~~	~~663~~	"	"	"	x	x		"
~~12~~	" " "		~~27 40~~	~~762~~	~~97 15~~	~~665~~	"	"	"	x	x		"
~~13~~	" " "		~~27 40~~	~~877~~	~~97 15~~	~~611~~	"	"	"	x	x		"
~~14~~	" " "		~~27 40~~	~~975~~	~~97 15~~	~~572~~	"	"	"	x	x		"
~~15~~	" " "		~~27 40~~	~~1101~~	~~97 15~~	~~515~~	"	"	"	x	x		"
~~16~~	" " "		~~27 40~~	~~1228~~	~~97 15~~	~~469~~	"	"	"	x	x		"
~~17~~	" Ch. Lt. 268 (J8)		~~27 40~~	~~1333~~	~~97 15~~	~~425~~	"	"	"	x	x		8

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 individual field survey sheets. Information under each column heading should be given.

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

~~Baltimore, Maryland~~ 31 March, 1950

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 _____

Joseph W. Vonasek

Hubert A. Paton *Chief of Party.*

STATE TEXAS

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LAT. D.M. METERS	POSITION LONGITUDE ° ′	LONG. D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
DAYBN 30	~~Navy Crash Boat Channel~~		27 39	1410	97 15	14	N.A. 1927	THEODOLITE CUTS	1949	x	x		523 1286
31	" " " "		27 39	1530	97 15	116	"	"	"	x	x		" "
32	" " " "		27 39	1673	97 15	162	"	"	"	x	x		" "
33	" " " "		27 39	1804	97 15	273	"	"	"	x	x		" "
34	" " " "		27 40	98	97 15	320	"	"	"	x	x		" "
35	" " " "		27 40	208	97 15	428	"	"	"	x	x		" "
36	" " " "		27 40	348	97 15	470	"	"	"	x	x		" "
37	" " " "		27 40	452	97 15	578	"	"	"	x	x		" "
38	" " " "		27 40	627	97 15	622	"	"	"	x	x		" "
39	" " " "		27 40	708	97 15	730	"	"	"	x	x		" "
40	" " " "		27 40	785	97 15	737	"	"	"	x	x		" "
41	" " " "		27 40	812	97 15	789	"	"	"	x	x		" "
DAYBN 1	Seaplane Operating Area		27 40	1499	97 15	951	"	"	"	x	x		" "
2	" Ch Ltr " 2 ( )		27 40	1467	97 15	871	"	"	"	x	x		" "

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 individual field survey sheets. Information under each column heading should be given.

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

BALTIMORE, MARYLAND 31 March, 1950

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 Joseph W. Vonasek

Hubert A. Paton *Chief of Party.*

STATE TEXAS			POSITION										
			LATITUDE			LONGITUDE							
CHARTING NAME	DESCRIPTION	~~LIGHT SIGNAL NAME~~ LIST NO.	° ′	D.M. METERS		° ′	D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
DAYBN 18	Seaplane Operating Area		27 40	1289		97 15	305	N.A. 1927	THEODOLITE CUTS	1949	x	x		523 1286
19	" " "		27 40	1240		97 15	164	"	"	"	x	x		" "
20	" " "		27 40	1195		97 15	22	"	"	"	x	x		" "
LIGHT	SPOIL BANK	4557	27 44	234.7		97 16	784.9	"	Triangulation T-9187	"	x	x		" "
LIGHT 32	ENCINAL CHANNEL	4551	27 44	1316.0		97 15	1458.8	"	"	"	x	x		" "
LIGHT 31	ENCINAL CHANNEL	4550	27 44	1255.5		97 15	1306.3	"	"	"	x	x		" "
DAYBN 29	ENCINAL CHANNEL (approximate position)		27 44	1835		97 15	1084	"	Photo. Comp.	"	x	x		" "
LIGHT	ENCINAL CHANNEL SOUTH LEADING	4556	27 42	420		97 16	1415	"	"	"	x	x		" "
DAYBN	ENCINAL CHANNEL TURNING BASIN EAST RANGE FRONT		27 42	297		97 16	1094	"	"	"	x	x		" "
DAYBN	ENCINAL CHANNEL TURNING BASIN EAST RANGE REAR		27 42	232		97 16	1110	"	"	"	x	x		" "
DAYBN	ENCINAL CHANNEL TURNING BASIN WEST RANGE FRONT		27 42	450		97 17	11	"	"	"	x	x		" "
DAYBN	ENCINAL CHANNEL TURNING BASIN WEST RANGE REAR		27 42	381		97 17	35	"	"	"	x	x		" "

See Ch Let 855 (51)

See Ch Let 855 (51)

See Ch Let 855 (51)

Ch Let 268 (50)

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 individual field survey sheets. Information under each column heading should be given.

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

Corpus Christi, Texas 15 June, 19 49

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 Joseph W. Vonasek

CHARLES W. CLARK *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TANK	Naval Air Station Water Tank		27 41	1163.5	97 16	158.1	N.A. 1927	T-9187 Triang.	1949	x	x		523 1286
STACK	Stack Naval Air Station. BOQ Power Plant	LAM p.174	27 41	856.4	97 15	843.8	"	"	1949	x	x		523 1286
TOWER	Univ. Corpus Tower, Ward Island Christi.		27 42	1644.9	97 19	1138.0	"	"	1949	x	x		523 1286
		Ch Let	268 (57)										

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 individual field survey sheets. Information under each column heading should be given.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC REVIEW SECTION

NONFLOATING AIDS ~~OR LANDMARKS FOR CHARTS~~

TO BE CHARTED / ~~NO BE DELETED~~ } STRIKE OUT ONE

Corpus Christi, Texas 25 October 19 51

I recommend that the following objects which have ~~not~~ been inspected from seaward to determine their value as landmarks be charted on ~~not be charted on~~ the charts indicated.

The positions given have been checked after listing by Joseph W. Vonasek

P. L. Bernstein, *Chief of Party.*

STATE	Texas		POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM							
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	D.M. METERS	° ′	D.P. METERS								
							N. A.		Planetable					523
Daybeacon	Encinal Channel Daybeacon 29		27 44	1832	97 15	1088	1927		T-9187	1951	x	x		1286
Daybeacon	Encinal Channel Turning Basin Range Front Daybeacon		27 42	302	97 16	1100	"		"	1951	x	x		same
Daybeacon	Encinal Channel Turning Basin Range Rear Daybeacon		27 42	245	97 16	1120	"		"	1951	x	x		same

Ch. Letter 855 (51)

Field Edit Report, T-9187

51. Methods.--Field edit of shoreline and data for nautical charts was accomplished in accordance with the Acting Director's letter dated 16 July 1951, reference 711-aal, subject: Field Edit, Project Ph-36, and the Chief, Division of Photogrammetry's letter dated 2 August 1951, reference 711-lmh, same subject. Review questions were answered in the interior if there was any doubt if they would be cleared up by comparison with the U. S. Geological Survey's topographic sheet.

Corrections to be applied from the Geological Survey quadrangle have, in general, been noted on Field Edit Sheet No. 2. A thorough comparison should be made by the compiler. T 9187 Planimetric map was used as a base by GS for plotting & containing the control. The party did a field edit of the planimetric information in connection with T 9187.

The shoreline of Oso Bay was carefully checked at low-water and storm (rain) water levels. Notes regarding the findings are on Field Edit Sheet No. 1.

The field edit corrections are shown on Field Edit Sheet No. 1, the Discrepancy Print and photographs numbers 48-0-1144, 1145, 1167, 1168, 1169, and 1170. Violet ink was used for corrections and additions, and green for deletions.

52. Adequacy of compilation.--The compilation is well-done and will be complete after application of field edit information and corrections taken from the Geological Survey quadrangle.

53. Map accuracy.--As far as could be determined from visual inspection and the occupying of identifiable points with the planetable the accuracy is excellent.

54. Recommendations.--No recommendations are offered.

55. Examination of proof copy.--The Commanding Officer, U. S. Naval Air Station, Corpus Christi, Texas, requests that this quadrangle be submitted to the Chief, U. S. Naval Operations for security check before publication. Security release obtained 12/11/50. Copy of letter is in the Project Completion Report.

It is recommended that a proof copy be sent Mr. Conrad M. Blucher, County Surveyor, County Courthouse, Corpus Christi, Texas. Mr. Blucher is well-qualified and has agreed to make the examination.

Geographic names.--The name HUMBLE CHANNEL is recommended for charting. This is a channel crossing the Laguna Madre Causeway at approximate latitude 27 degrees 39.5 minutes, longitude 97 degrees 15.6 minutes. It is well known locally and so marked by the State Highway Department.

Officials of the Naval Air Station state that the correct name is STATION not base, and request that the words (Main Field) be left off. They also have asked that the words AUXILIARY AIR STATION be applied to WALDRON and RODD FIELDS.

Respectfully submitted,

William H. Shearouse

William H. Shearouse,
Cartographer

62. Comparison with Registered Topographic Surveys.-

T-1626	1:20,000	1881-82
T-4873	1:20,000	1934 (Graphic Control)
T-5365	1:20,000	1934

This map supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-

Advance Print, USGS, Oso Creek, NE Quad - 1:20,000, 1951
This planimetric map was used as a base by the Geological Survey in the compilation of the topographic quadrangle. See note on preceding page.
Shoreline of the Laguna Madre and Oso Creek was not properly delineated on the advance print of the topographic quadrangle. A proof copy of this advance print was returned to the USGS correcting the shoreline delineation to agree with the planimetric maps. See item 67.

64. Comparison with Contemporary Hydrographic Surveys.-

None

65. Comparison with Nautical Charts.-

Nautical Chart 523, 1:40,000, 1950
Channels dug to oil wells in the Laguna Madre are not shown on the Nautical Chart. The channel marked with Piles, running SE from the abandoned seaplane operating area, is not shown on the nautical chart.

66. Map Accuracy.-

This map conforms with the National Standards of Map Accuracy. See Review Report, T-9176, for results of a horizontal accuracy test in this area.

67. Shoreline.-

The shoreline in the Laguna Madre and Oso Creek was not delineated by standard methods. See Review Report, T-9180, for details of this special treatment.

68. Application to Nautical Charts.-

A new series of Intracoastal Waterway Charts, scale 1:40,000, were compiled using the maps of Ph-36 as bases. These charts are being reproduced at this date. Chart No. 893 covers the area of the map manuscript.

Reviewed by:

Charles Theurer
C. Theurer

APPROVED

S. V. Griffin 1/22/54
Chief, Review Section
Div. of Photogrammetry

H. A. Edmonston
Chief, Nautical Chart Branch
Division of Charts

L. W. Swanson
Chief, Div. of Photogrammetry
11 Feb. 1955

Earl O. Hewitt
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T9187

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/14/50	1286	Straw	Before After Verification and Review see back cover.
11/17/51	893	Sg. McGann	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.