

11804

ORIGINAL

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Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>SHORELINE (Photogrammetric)</u>	
Field No. _____	Office No. <u>T-11804</u>
LOCALITY	
State <u>Mississippi</u>	
General locality <u>Mississippi Sound</u>	
Locality <u>Deep Point</u>	
<u>1966 - 1967</u>	
CHIEF OF PARTY	
<u>J. Bull, RADM, Director, Atlantic Marine Center</u>	
LIBRARY & ARCHIVES	
DATE _____	

USCOMM-DC 5087

11804

## DESCRIPTIVE REPORT - DATA RECORD

T - 11804

PROJECT NO. (II): PH-6625		
FIELD OFFICE (II):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		OFFICER-IN-CHARGE J. Bull, CAPT
INSTRUCTIONS DATED (II) (III): <i>Field: Dec. 1965</i> <i>Field - Suppl. #1: Mar. 1966</i> <i>Office: April 27, 1966</i> <i>Field - Hydro Support: Edit: Sept. 27, 1967</i> <i>Aerotriangulation: March 1, 1966</i>		
METHOD OF COMPILATION (III): Kelsh		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000 pantographed to 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N. A. 1927		VERTICAL DATUM (III): <u>MTW</u> <del>MEAN SEA LEVEL</del> 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): POPP, 1958 ✓		
LAT.: 30°26' 15".375(473.4m) ✓	LONG.: 88°57' 59".661(1592.0m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 280,386.72 ft. ✓      x = 458,009.50 ft. ✓		STATE Mississippi ✓ ZONE East ✓
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.		



## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation Date of Photography 27 January 1966		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		5/3/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		5/3/66
CONTROL PLOTTED BY (III):		DATE
J. Place		7/6/66
CONTROL CHECKED BY (III):		DATE
L. Graves		7/6/66
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE April 1966 <del>no date</del>
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE
Kelsh	PLANIMETRY	8/10/66
	CONTOURS	DATE
Inapplicable		
MANUSCRIPT DELINEATED BY (III):		DATE
B. Barnes		8/29/66
SCRIBING BY (III):		DATE
F. Margiotta		6/26/67
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
COMPILATION: C. Bishop FIELD EDIT APPLICATION: R.E. SMITH SCRIBING & STICK-UP: R.E. SMITH		7/1/66 6/20/67 8/1/67
REMARKS: FIELD EDIT by W. R. Cameron MAR. 1967		



## DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

"S" camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE <del>*</del>
66-S-1812 thru 1815	Jan. 27, 1966	09:48	1:30,000	0.0 MLW
66-S-1896 thru 1900	Jan. 27, 1966	09:53	1:15,000	0.0 "
66-S-1904 thru 1908	Jan. 27, 1966	09:55	1:15,000	" "

~~\*~~ Predicted

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Pensacola, Florida			1.3
COORDINATE STATION:	Biloxi, Biloxi Bay, Miss.			1.8
SUBORDINATE STATION:				
Atlantic Marine Center		DATE:		
<del>WASHINGTON OFFICE</del> REVIEW BY (IV):		July 1968		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):	3	RECOVERED:	IDENTIFIED:	
		3	1	
NUMBER OF BM(S) SEARCHED FOR (II):	-	RECOVERED:	IDENTIFIED	
		-	-	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		-		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		-		

REMARKS:



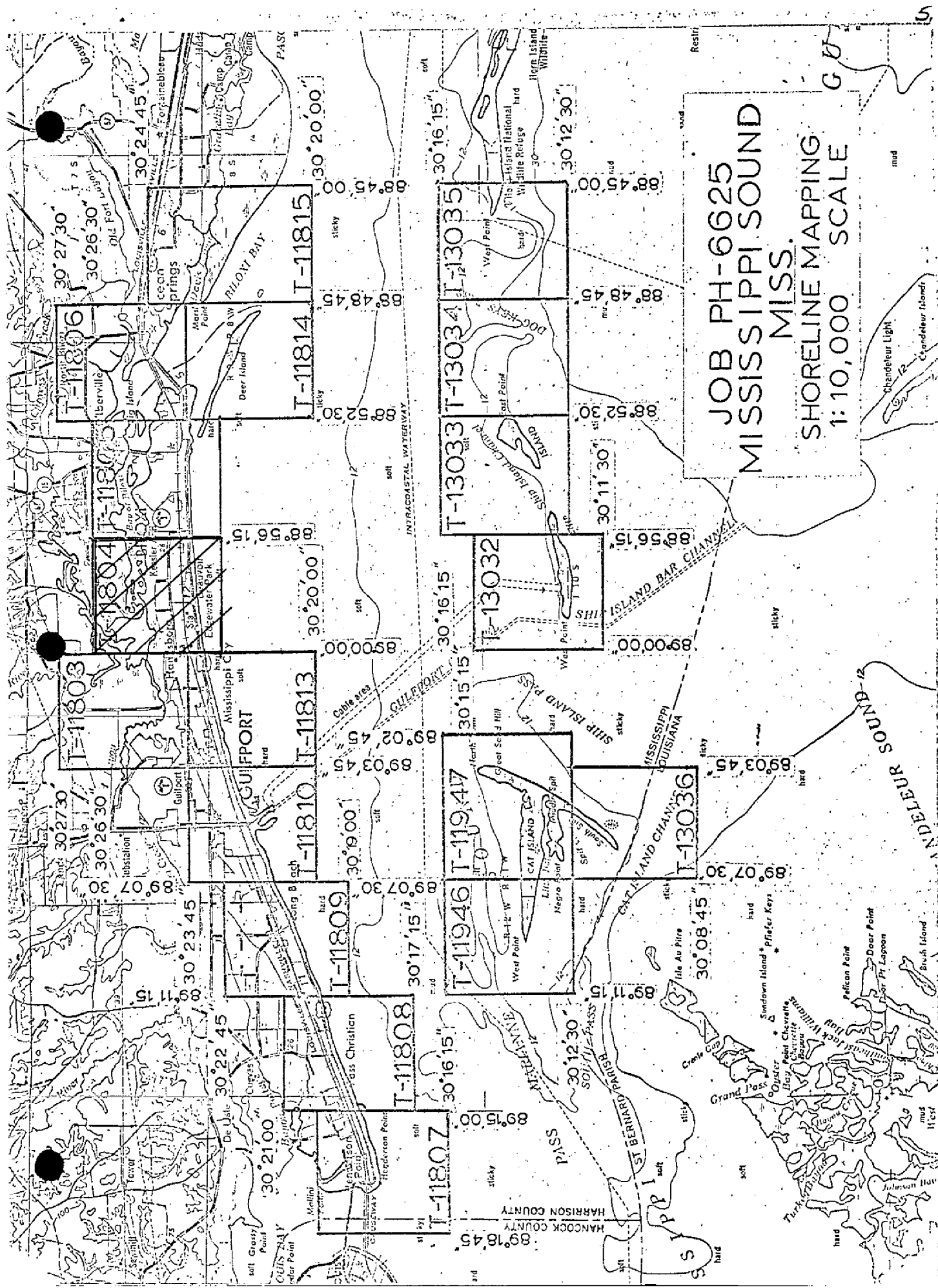
## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Compilation Complete pending Field Edit	August 1966	Superseded
Field Edit applied Compilation complete	June, 1967	<i>SUPERSEDED</i>
<i>REVISED DURING FINAL REVIEW JULY 1968</i>		





JOB PH-6625  
MISSISSIPPI SOUND  
MISS.  
SHORELINE MAPPING  
1:10,000 SCALE  
G 6



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11804

Shoreline manuscript T-11804 is one of the eighteen 1:10,000 scale maps that comprise PH-6625. These maps are for Mississippi Sound, from Bay St. Louis through Gulfport and Biloxi to Belle Fontaine Point; and the offshore area of Cat Island through Ship Island and includes the west end of Horn Island. The sketch on page 5 of this report shows the position of T-11804 in PH-6625.

This is a stereo-instrument job in advance of hydrographic surveys of the area. The only field work preceding compilation was that pertaining to control identification, and pre-marking of control stations before photography. The stereoplanigraph bridge was run in the Washington Office with 1:30,000 scale panchromatic photography taken January 27, 1966 with the "S" camera. Compilation was primarily by Kelsh Plotter with the same photographs used for bridging. Ratio prints at 1:10,000 scale were processed and furnished for hydro support.

Additional photographic coverage along the shoreline was provided with 1:15,000 scale panchromatic "S" photographs, of January 27, 1966, enlarged to 1:10,000 for hydro support; these were fixed and located graphically, and the centers are on the map. Color photographs at 1:20,000 scale of January 27, 1966 were provided for use in the offshore areas, particularly in the ship channels. The centers of these photographs are not on the map.

The map was field edited in March 1967. Field edit was done on an ozalid, a cronaflex, and on various photographs. The map was scribed and stuck-up after applying the field edit.

Final review was done at the Atlantic Marine Center during July 1968.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude and longitude. The smooth manuscript is on cronaflex for registry and record after final review.



FIELD INSPECTION REPORT  
T-11804

Field work prior to compilation consisted of control identification only; no inspection was done.

M. M. Slavney

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PHOTOGRAMMETRIC PLOT REPORT  
Job PH-6625  
Mississippi Sound, Mississippi

Part I

21. Area Covered

Part I includes the mainland shore areas and the close, off-shore islands of Mississippi Sound. T-sheets 11803 through 11810 and 11813 through 11815 are included in this report.

22. Method

Three strips of photography were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. All strips were joined by common control stations and/or tie points. All tie points between strips were averaged.

Strip #1 consisted of photographs 66-S-1849 through 1856. This strip was adjusted using five control stations with one additional station as a check.

Strip #2 consisted of photographs 66-S-1809 through 1827. This strip was adjusted using six control stations with fourteen additional stations as checks.

Strip #3 consisted of photographs 66-S-1830 through 1842. This strip was adjusted on four stations with six additional stations as checks.

23. Adequacy of Control

Control was adequate and complied with project instructions. The following stations could not be held during bridging operations.

#1. Bridge, 1935 (S.S.A.) This premarked station was observed in all strips but could not be held in the adjustment of bridges #2 and #3 by 15 to 20 feet. The station held within six feet in Strip #1, but this error was still large for a premarked station. No reasons could be determined for this error. It is possible the target could have been disturbed before photography since the station was in an area easily accessible to the public.



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#2. Several office identified control stations were on the limits of standard map accuracy; however, due to the number of stations holding well within the limits, these stations were disregarded as having errors in office identification.

24. Supplemental Data

Local GS Quads were used for basic leveling during bridging operations.

25. Photography

Photography was adequate as to coverage, quality and definition.

Submitted by:

*Paul Hawkins*  
Paul Hawkins

Approved by:

*John D. Perrow Jr.*  
John D. Perrow, Jr.

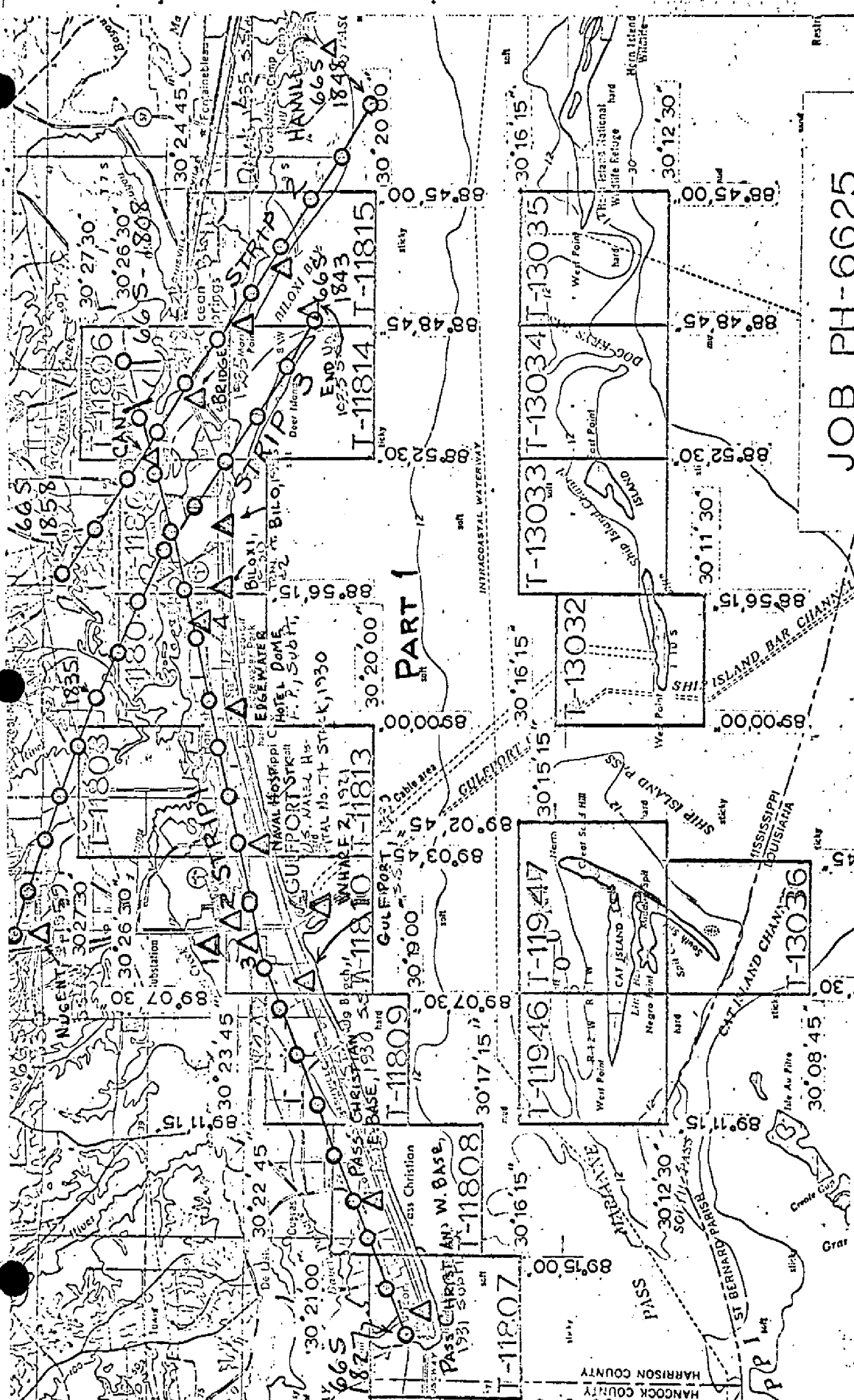
NOTES TO COMPILER  
Job PH-6625  
Mississippi Sound, Mississippi

Part I

Attempts to extend Bridge #3 to include plate 66-S-1843 met with repeated, poor results due to the small land area available for clearing the stereomodel. This area must be compiled by graphic methods. Ratio prints (scale 1:10,000) for this area as well as the entire project will be provided to the Compilation Office.

Part II of this project will follow as soon as control is provided for the area.





JOB PH-6625  
MISSISSIPPI SOUND  
SHORELINE MAPPING  
1:10,000 SCALE

- KEY TO NUMBERED STATIONS
- 1- DAVIS GULFPORT FERTILIZER TANK, 1930
  - 2- PHILIPS MILK OF MAGNESIA TANK, 1958
  - 3- WOLCOTT CAMPBELL COTTON MILL TANK, 1930
  - 4- VETERANS HOME TANK, 1935



MAP T. 11804

PROJECT NO. PH-6625

SCALE OF MAP 1:10,000

SCALE FACTOR

None

[illegible]



COMPILATION REPORT  
T-11804

~~The Photogrammetric Plot Report has been submitted with T-11803.~~

31. DELINEATION

The Kelsh plotter was used. The aids to navigation and piling in Mississippi Sound were located graphically from the ratioed photographs.

There was no field inspection.

Photography was satisfactory.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Shallow and shoal limits were delineated from office interpretation of the photographs. No low water line was shown.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 for Landmarks and Aids to Navigation were forwarded to the Washington Office under date **June, 1967.**

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11803 to the west and T-11805 to the east. Mississippi Sound is to the south and there is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle BILOXI, MISS., scale 1:24,000 dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Charts Nos. 876-3C, scale 1:40,000 revised February 26, 1966 and 1267 scale 1:80,000 revised January 31, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*R. E. Smith*  
R. E. Smith  
Cartographer

Approved and forwarded:

For *J. Bull*  
J. Bull, RADM. USESSA  
Director, Atlantic Marine Center



May 22, 1968

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6625 (Mississippi Sound, Miss.)

T-11804

- |                      |                      |
|----------------------|----------------------|
| ✓ Back Bay of Biloxi | ✓ Devils Elbow       |
| ✓ Bayou La Porte     | ✓ Edgewater Park     |
| ✓ Beauvoir           | ✓ Goose Point        |
| ✓ Big Lake           | ✓ Heartsease         |
| ✓ Biloxi River       | ✓ Little Big Lake    |
| ✓ Brasher Bayou      | ✓ Long Point         |
| ✓ Burnt Bridge       | ✓ Marsh Island       |
| ✓ Camp Wilkes        | ✓ Mullet Lake        |
| ✓ Cedar Point        | ✓ Mississippi Sound  |
| ✓ Coley Island       | ✓ Popps Ferry Bridge |
| ✓ Deep Point         | ✓ Popps Ferry Road   |

Approved by:

*A. Joseph Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician





STRIKE OUT TWO

## Atlantic Marine Center

June 8 1967

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

The positions given have been checked after listing by

C. Blood

*for* J. Bull, RADM, USESSA  
Director, AMC.

Chief of Party.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.



FOR CANCELLATION  
TO BE DELETED

Atlantic Marine Center

June 8, 1967

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

The positions given have been checked after listing by

C. Blood

*✓* J. Bull. RADM. USESA

Director, AMC

Chief of Party.

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

\* TABULATE SECONDS AND METERS

STRIKE OUT TWO

## NONFLUORESCENT AIDS OR LANDMARKS FOR CHARTS

**Atlanta School of Law**

~~SECRET~~  
~~1961~~

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

**The positions given have been checked after listing by**

2000

**J. Hill, M.A., F.R.S., F.R.S.E.** *Chief of Party.*  
**Director, A.M.C.**

**Director, Anti-  
Comunist, Foreign  
Affairs, U.S. State  
Department**

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonsteering aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

### # TABULATE SECONDS AND METERS



T-11804

49. NOTES FOR THE HYDROGRAPHER

Shallow and shoal areas shown on this sheet were determined by office interpretation of the aerial photographs and are shown as an aid to the Hydrographer. If a shallow or shoal area that is shown does not exist, this fact should be noted on the field edit ozalid.

Investigate non-floating aids and landmarks for charts and submit Form 567.

Refer to notes on field edit ozalid.

C&GS FORM 1002  
(11-13-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 11804

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NONE		7. PHOTO HYDRO STATIONS NONE
8. BENCH MARKS NONE	9. PLOTTING OF SEXTANT FIXES NONE	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (WSC)	11. DETAIL POINTS Kelsch
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE CHB	13. LOW-WATER LINE Not Mapped	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION CHB	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES CHB		21. NATURAL GROUND COVER CHB	22. PLANETABLE CONTOURS none
23. STEREOSCOPIC INSTRUMENT CONTOURS none	24. CONTOURS IN GENERAL none	25. SPOT ELEVATIONS none	26. OTHER PHYSICAL FEATURES none
<b>CULTURAL FEATURES</b>			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS none	30. OTHER CULTURAL FEATURES none
<b>BOUNDARIES</b>			
31. BOUNDARY LINES none		32. PUBLIC LAND LINES none	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES CHB		34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT RES	38. FIELD INSPECTION PHOTOGRAPHS none	39. FORMS CHB
40. REVIEWER CHB <i>Charles H. Bishop</i>		SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauck Jr.</i>	
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 CEB <i>Charles E. Blood</i>		SUPERVISOR ACR <i>Albert C. Rauck Jr.</i>	
43. REMARKS Field Edit applied from cronaflex positive, Field Edit Ozalid, and field photographs Nos. 66-S-1813, 66-S-1814, 66-S-1896, 66-S-1897, and 66-S-1907.			

## FIELD EDIT REPORT

SHEET T-11804

JOB PH-6625  
MARCH 1967

Respectfully Submitted,

*William R. Cameron*

William R. Cameron

ENS, USESSA

Chief, Photo Party 61



## 51 Methods

All field edit work was done in accordance with project instructions and photo instructions. Certain shoreline and offshore features were located by planetable methods and are shown on a cronaflex positive of this manuscript.

An inspection of alongshore features such as piers, piles, groins, etc. was made. Additions and corrections are shown on the field ratio prints.

All landmarks and fixed aids to navigation were located or verified and a Form 567 was submitted.

All field edit notes appearing on the field ratio prints are in violet ink. Each correction or group of corrections was cross-referenced by an appropriate photograph number on the field edit ozalid. This ozalid is an index and inventory of all corrections to be applied to the map manuscript.

## 52 Adequacy of Compilation

Compilation was adequate and complete considering there was no field inspection of the area prior to compilation.

## 54 Recommendations

None.

## 56 Additional Information

Field edit information concerning this manuscript appears on the following field ratio prints:

66S1813  
66S1814  
66S1896  
66S1897  
66S1907.

The piles along the sand beach facing Mississippi Sound mark the extent of a man-made beach and are a warning to swimmers of deep water. The location of each pile was verified by planetable cuts. Additions, corrections, and deletions are shown on a cronaflex positive of this manuscript.

The submerged obstructions in the vicinity of the Broadwater Beach Hotel Marina were not visible at low water and consequently could not be located by this party. HFP 742 plans to conduct an underwater investigation in this area. The boat sheet should be consulted for information concerning these features.

(LAST ITEM IN FIELD EDIT REPORT)

56 Additional Information (cont.)

The sand beach facing Mississippi Sound is man-made and is subject to frequent change due to maintenance of it. The shoreline delineated on the manuscript is representative of the MHWL and should be charted as shown.

The delineation of the shoreline in Back Bay of Biloxi was inspected and several changes were noted on the field ratio prints and the cronaflex positive of this manuscript. If no measurements or corrections are shown the compilation is correct.

Buildings compiled but not of landmark value are cross-hatched in green ink.

## REVIEW REPORT T-11804

## SHORELINE

July , 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

Item 31 (Delineation) states "the Kelsh Plotter was used", but BROADWATER BEACH HOTEL MARINA LIGHTS 6 through 9, and most of the piling in Mississippi Sound were located by radial plot methods from ratio prints of photographs 66-S-1904 through 1909, and 1896 through 1898, which had been fixed graphically on the shoreline pass points located with the Kelsh Plotter.

It is noted that the field editor corroborated the photogrammetric positions of the aforesaid LIGHTS 6 through 9, and most of the piling in Mississippi Sound with plane-table cuts. A few of the piling did not check, and though in some cases the plane-table intersections themselves were poor, the identification of these piling was re-checked on the photographs and the positions re-established photogrammetrically, and used on the map.

An ozalid Comparison Print (pages 28 through 33), which shows the differences noted in Items 62, 64, and 65, is included with the original copy of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

T-9377 South Half; 1:10,000; Field Edited Sept. 1954.

Differences with T-9377 S/2 are shown on the Comparison Print in blue.

(a) The two large marinas fronting Mississippi Sound, the Broadwater Beach Hotel Marina Channel Lights, and the large land-mark building at latitude  $30^{\circ} 23.5'$ , longitude  $88^{\circ} 59.45'$  are all new since the 1954 survey.

(b) The wreck on T-9377 S/2 at latitude  $30^{\circ} 23.2'$ , longitude  $88^{\circ} 58.75'$  does not appear on T-11804. It is not visible on the photographs; it was not found by the field editor, and was searched for and not found after dragging by the hydrographer according



to Boat Sheet H-8923 (HFP 742 10-3-66), and "was recommended for deletion."

(c) The Comparison Print also shows some piling, piers, pier ruins, and an "oil drum" not on T-9377 S/2.

(d) The shoreline changes in Back Bay of Biloxi and Mississippi Sound are from construction.

T-11804 supersedes the previous registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

U.S.G.S. Quad. BILOXI, MISS.; 1:24,000; Field edit in 1954.

The quadrangle is a reduction of topographic map T-9377, see Item 62, and the same differences apply.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET H-8923 (HFP 742 10-3-66); 1:10,000; 1966.

Boat Sheet differences are on the Comparison Print in green. The Boat Sheet furnished final review is a Bromide copy of the original.

(a) The Boat Sheet shows a double row of piles from about latitude  $30^{\circ} 22.9$  to  $30^{\circ} 23.35$  at about longitude  $88^{\circ} 57.66$ , which carry labels "Row of piles", "subm piles", and "piles"; and the Boat Sheet does not state whether they are all submerged, or which ones are and which are not. They are not visible on the photographs and the field editor may have been referring to these in his third paragraph of Item 56 (page 22) re "submerged obstructions".

(b) The "obstruction" on the Boat Sheet at about latitude  $30^{\circ} 23.15'$ , longitude  $88^{\circ} 57.78$  is not visible on the photographs, and it too may be one of the "submerged obstructions" he referred to in his report.

(c) The Boat Sheet shows a "stake, bare 1' m/w" at latitude  $30^{\circ} 23.28'$ , longitude  $88^{\circ} 57.58$ , an "iron pipe" at latitude  $30^{\circ} 23.32'$ , longitude  $88^{\circ} 58.87'$  and another "iron pipe" at latitude  $30^{\circ} 23.37'$ , longitude  $88^{\circ} 58.53'$ . Neither the stake or iron pipes are

visible on the photographs, and they were not noted by the field edit.

(d) The Boat Sheet shoreline of the island in Back Bay of Biloxi at latitude  $30^{\circ} 25'$ , longitude  $88^{\circ} 57.7'$  shows some small changes from the shoreline as revised by the field editor on the field edit cronaflex. The field editor and the hydrographer were both there in February and March of 1967.

(e) The Boat Sheet carries a note "Questionable shoreline change (pencilled on boat sheet by hydrographer)" and an arrow to near latitude  $30^{\circ} 25.7'$ , longitude  $88^{\circ} 59.4'$  but it is not positively identifiable on the Bromide print, and is not visible on the photographs, or noted by the field edit.

65. COMPARISON WITH NAUTICAL CHARTS:

CHART 876 S.C.; 1:40,000; January 1968, corrected to Notice to Mariners #41 of October 14, 1967.

Chart differences are shown on the Comparison Print in red and the most serious ones are noted below.

(a) The marina on Mississippi Sound shoreline at longitude  $88^{\circ} 57.75'$  is correct on the inshore end, but should extend about 50 meters further offshore.

(b) The wreck near latitude  $30^{\circ} 23.2'$ , longitude  $88^{\circ} 58.75'$  was recommended for deletion by the hydrographer, see paragraph (b) in Item 62.

(c) The double row of piles about 700 meters long near longitude  $88^{\circ} 57.66'$  in Mississippi Sound, and the obstruction near latitude  $30^{\circ} 23.15'$ , longitude  $88^{\circ} 57.78''$  are discussed in paragraphs (a) and (b) of Item 64.

(d) The pier near latitude  $30^{\circ} 23.25'$ , longitude  $88^{\circ} 59.28'$  is shown on the chart with an enlarged south end, about 20 meters square, which is not on the photographs and was not noted by the field edit.

(e) T-11804 shows numerous buildings whose landmark value has been checked by the field editor that are not

on the chart. Conversely the chart shows many buildings that are now hidden by trees, particularly west of longitude  $88^{\circ} 58.4'$ .

(f) The Comparison Print shows piles on T-11804, not on the chart, and some pier ruins etc. on the chart which are not on the photographs and are not noted by the field editor.

(g) The street going north from U.S. 90 at longitude  $88^{\circ} 57.2'$  is about 40 meters too far west on the chart and will fall on the wrong side of 3 buildings approved by the field editor.

(h) The Mississippi Sound shoreline west of longitude  $88^{\circ} 57.85'$  is from 30 to 80 meters too far inshore on the chart. The beach is artificially maintained but so is the area east of  $88^{\circ} 57.85'$  and the charts largest difference<sup>there</sup> is about 30 meters.

(i) Displacement of the shoreline in Back Bay of Biloxi is uniformly north and is probably because the chart requires a 4X enlargement to match the scale of T-11804.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the job instructions, Bureau requirements, and the National Standards of Map Accuracy. No accuracy tests were run in the field.

Approved by:

Submitted by:

*For J. Bull*  
J. Bull, RADM, USESSA  
Director, Atlantic Marine Center

*M. M. Slavney*  
M. M. Slavney

Approved by:

*Charles L. Hanner*  
Chief, Photogrammetric Branch <sup>103</sup>

*R. H. Houten*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division



NOTES TO REVIEWER  
T-11804, Job PH-6625  
Boat Sheet H-8923 (HFP 742 10-3-66)

Please note Item 64, particularly paragraphs (d) and (e) which could not be resolved with the bromide copy of the Boat Sheet, Item 65, and the Comparison Print (pages 28 through 33).

LIMITS OF ADEQUATE PHOTO COVERAGE

L. Big Lake

Devils Elbow

Pier

Biloxi River

Marsh Island

30° 25' 30"

Coley Island

Long Point

B I G L A K E

spoil area

59' 30"

25'

88° 59'

spoil area

Ma islet

shallow

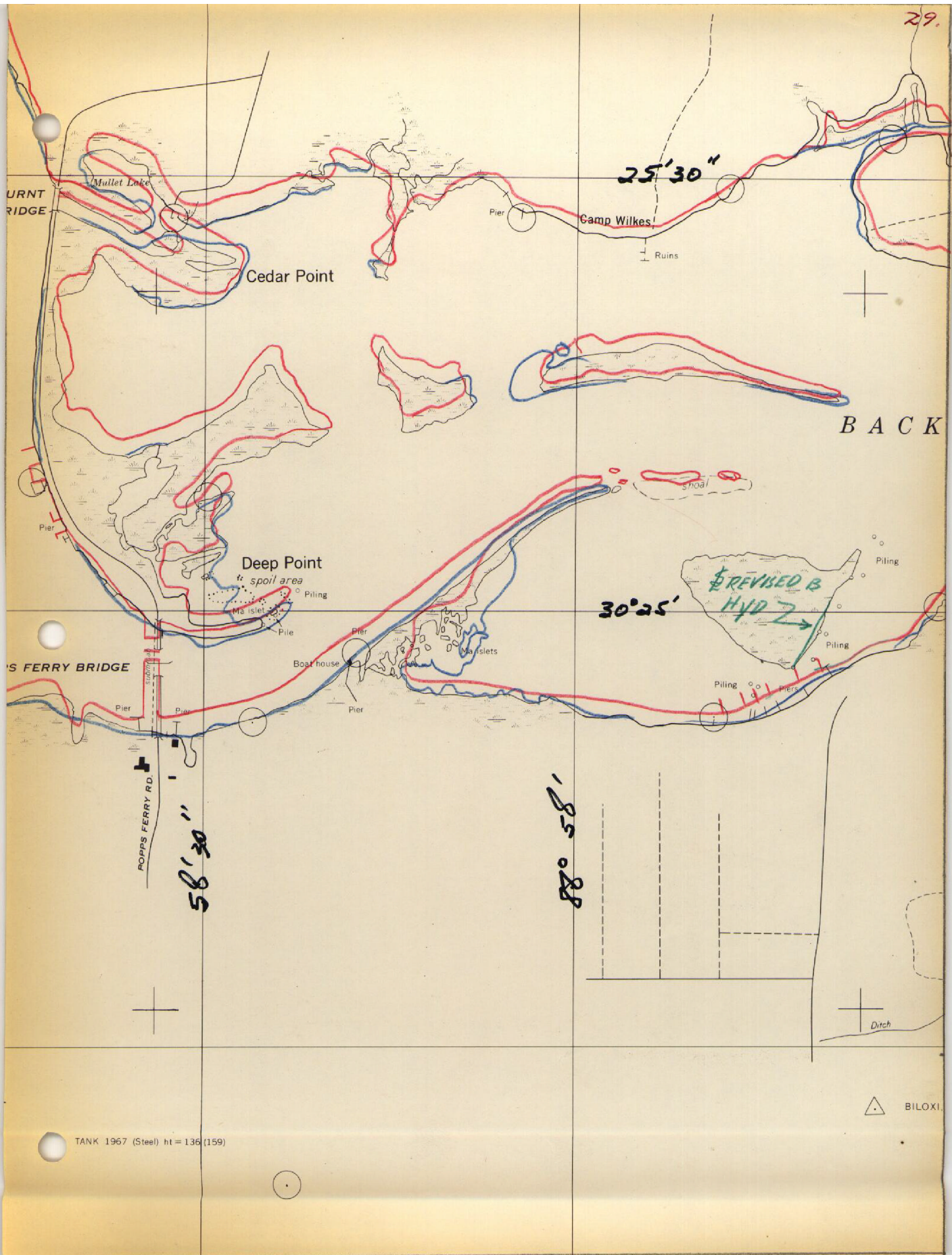
Obstr

Goose Point

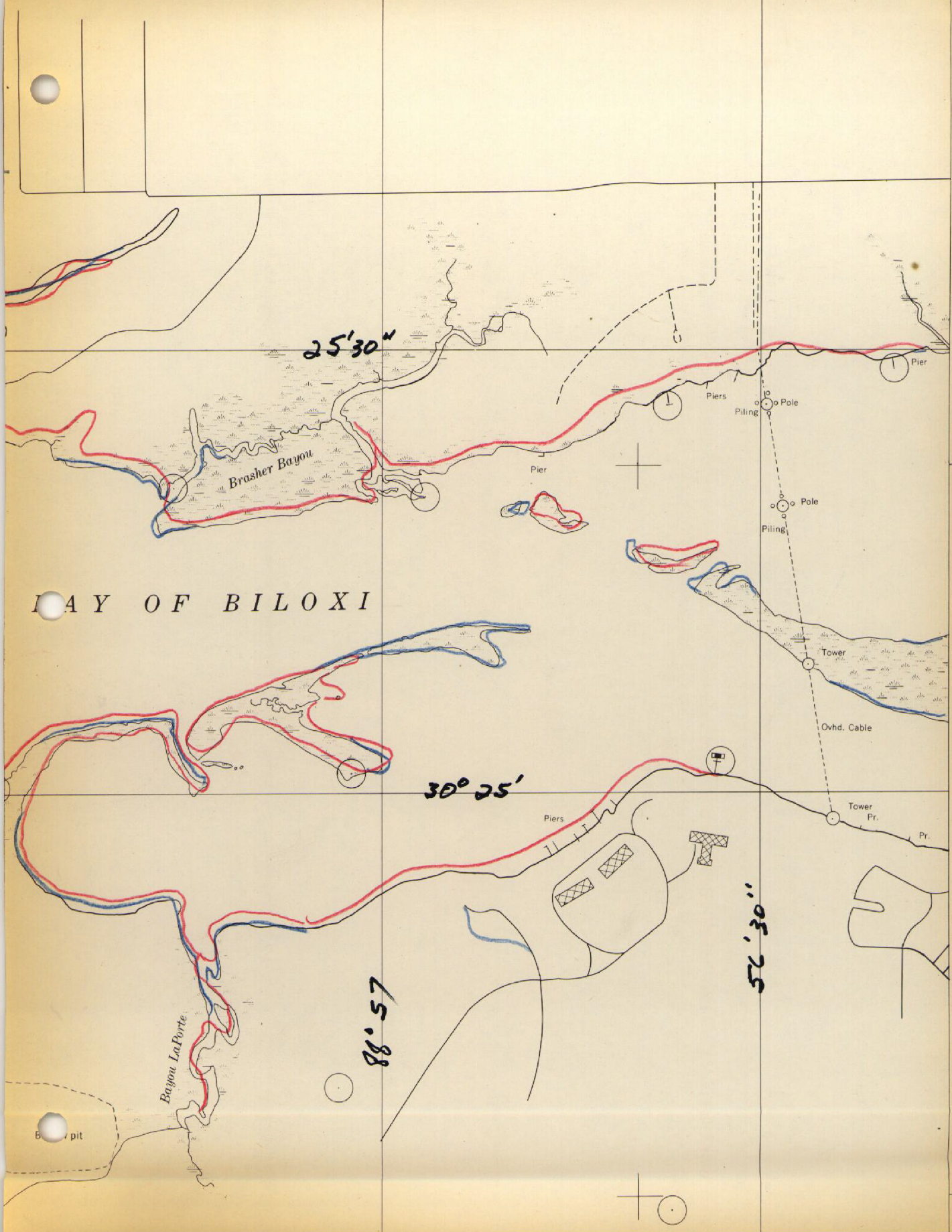
Pier

POPP











30° 24'

59' 30"

NOT ON CHART

88° 59'

Edgewater Park

TANK 1967 (Steel) ht = 133 (150)

EDGEWATER GULF HOTEL, DOME, FLAGPOLE 1930  
ht = 175 (192)

66-S-1905

66-S-1904

177(194)  
ON T-9377

Seawall

Storm drain

Pier ruins

Storm drains

Pier

66-S-1896

NOT ON T-9377

IRON PIPE  
ON H-8923

66-S-1897

Piling

Piling

Piling

23'

9° 00' 00"

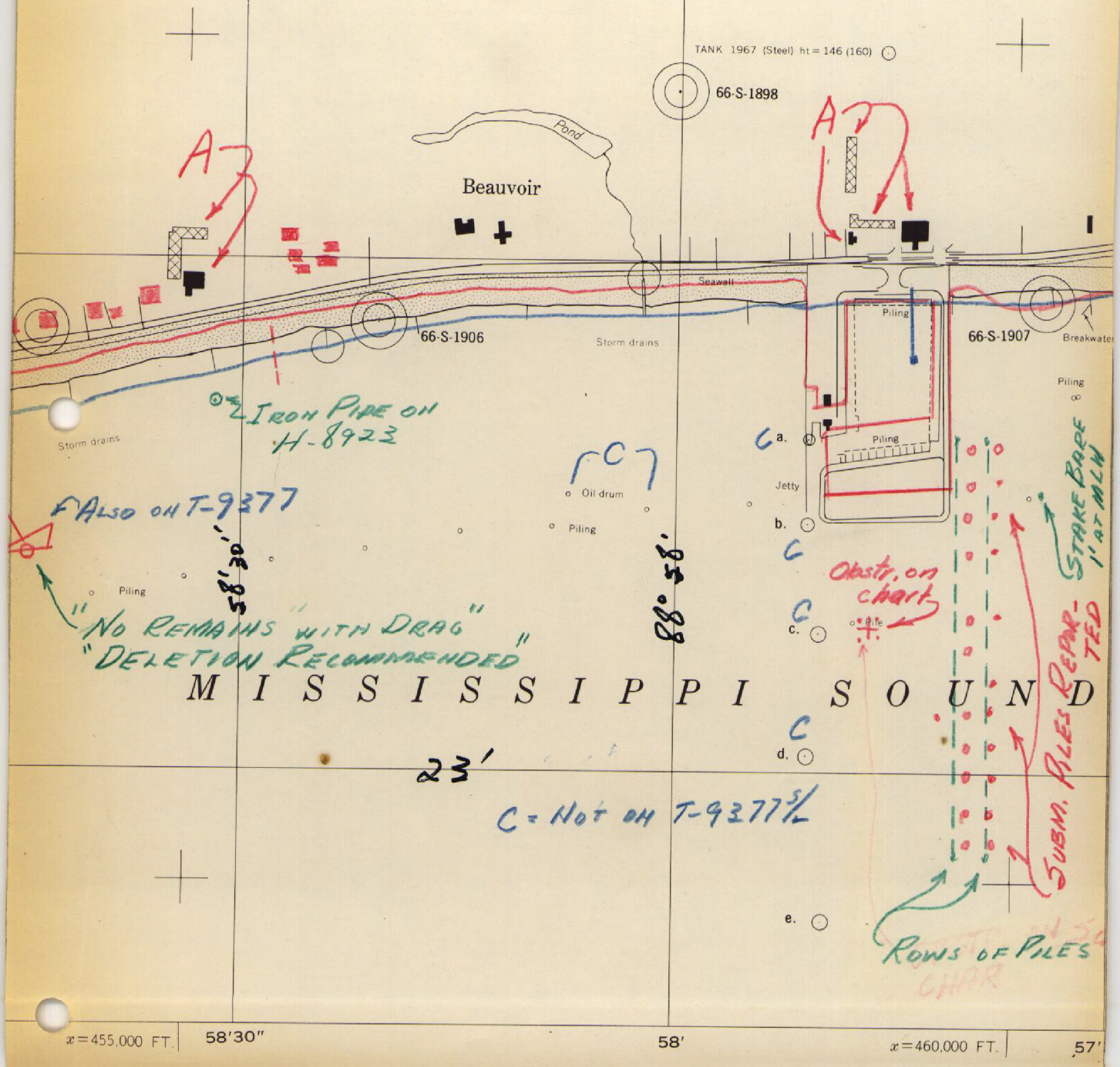
x=450,000 FT. 59' 30"

59'



30' 24'

A = NOT ON CHART



NOTE: Unlabeled circles are photogrammetric plot points; not map features

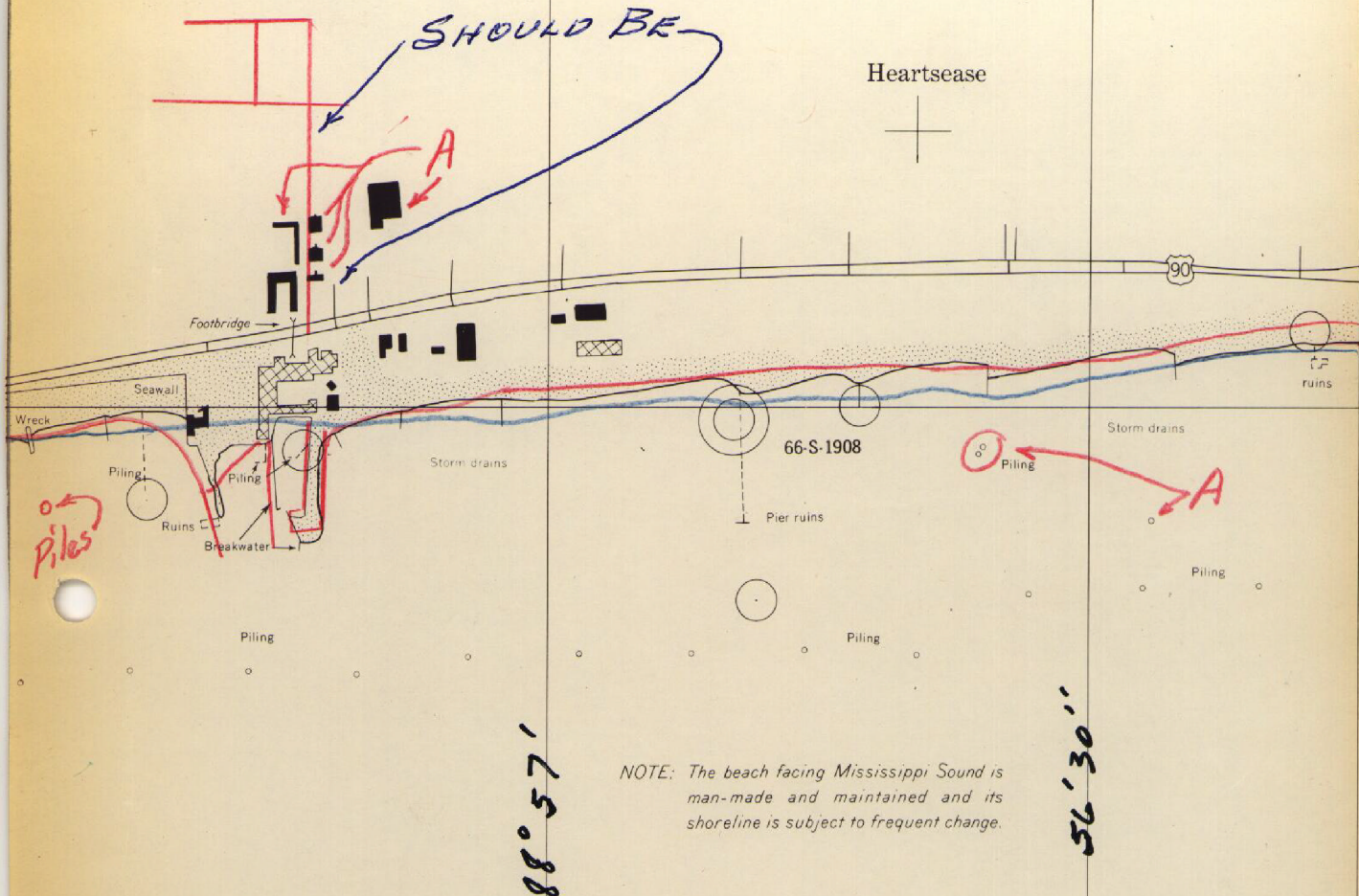
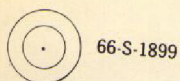
LEGEND

Marsh



30° 24'

A = NOT ON CHART



NOTE: The beach facing Mississippi Sound is man-made and maintained and its shoreline is subject to frequent change.

#### NONFLOATING AIDS TO NAVIGATION

- a. - BROADWATER BEACH HOTEL MARINA LIGHT 1967
- b. - BROADWATER BEACH HOTEL MARINA CHANNEL LIGHT 9, 1967
- c. - BROADWATER BEACH HOTEL MARINA CHANNEL LIGHT 8, 1967
- d. - BROADWATER BEACH HOTEL MARINA CHANNEL LIGHT 7, 1967
- e. - BROADWATER BEACH HOTEL MARINA CHANNEL LIGHT 6, 1967

(Note: The above listed Aids are privately maintained)

30" 57' x=465,000 FT 56'30" 88°56'1

- △ Recoverable horizontal control station of third-order or higher accuracy
- Recoverable horizontal control station of less than third-order accuracy

U. S. COAST AND GEODETIC SURVEY  
SHORELINE MANUSCRIPT