

Original

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Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (Photogrammetric)
Field No.	Office No. T-11813
LOCALITY	
State	Mississippi
General locality	Mississippi Sound
Locality	Mississippi City
1966 - 1967	
CHIEF OF PARTY	
J. Bull, Director, Atlantic Marine Center	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

11813

DESCRIPTIVE REPORT - DATA RECORD
T - 11813

PROJECT NO. (II): PH-6625		
FIELD OFFICE (II):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center		OFFICER-IN-CHARGE J. Bull, Director Atlantic Marine Center
INSTRUCTIONS DATED (II) (III): <i>Field: Dec. 1965</i> <i>" Suppl. #1: Mar. 11, 1966</i> <i>April 27, 1966 (Office)</i> <i>Field - Photo Hydro & 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): MHW MEAN LOW WATER 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): U.S., HOSPITAL NO. 74, STACK, 1930 ✓		
LAT.: 30° 22' 43.926" (1352.6) ✓	LONG.: 89° 03' 15.545" (1186.9m) ✓	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): = 259,068.68 ft. ✓ x = 430,314.62 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 (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation		
Date of Photos January 27, 1966		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		5/4/66
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
R. Glaser		5/5/66
CONTROL PLOTTED BY (III):		DATE
J. Place		August, 1966
CONTROL CHECKED BY (III):		DATE
L. Graves		August, 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
P. Hawkins (WSC)		April 1966 no date
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	K. Boyle	8/29/66
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		9/13/66
SCRIBING BY (III):		DATE
F. P. Margiotta		6/9/67
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <i>Field Edit Application - R.E. Smith</i>		DATE <i>5/18/67</i>
<i>Scribing " "</i>		<i>8/20/67</i>
R. E. Smith (Compilation)		<i>9/16/66</i>
REMARKS: <i>Field Edit by W.R. Cameron in Feb. 1967</i>		

DESCRIPTIVE REPORT - DATA RECORD

3.

CAMERA (KIND OR SOURCE) (III):

"S" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE *
66-S-1815 thru 1817	Jan. 27, 1966	08 ⁵ 40	1:30,000	0.1 Above M.L.W.
66-S-1890 thru 1895	Jan. 27, 1966	09 ⁵¹ 41	1:15,000	0.0 "

* Predicted

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Pensacola, Fla.		1.3	
ORDINATE STATION: Biloxi, Biloxi, Miss.		1.8	
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): ^{FINAL} Atlantic Marine Center, Mr. T. A. Slattery August 1968

PROOF EDIT BY (IV):

DATE:

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 1

RECOVERED: 1

IDENTIFIED: 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):

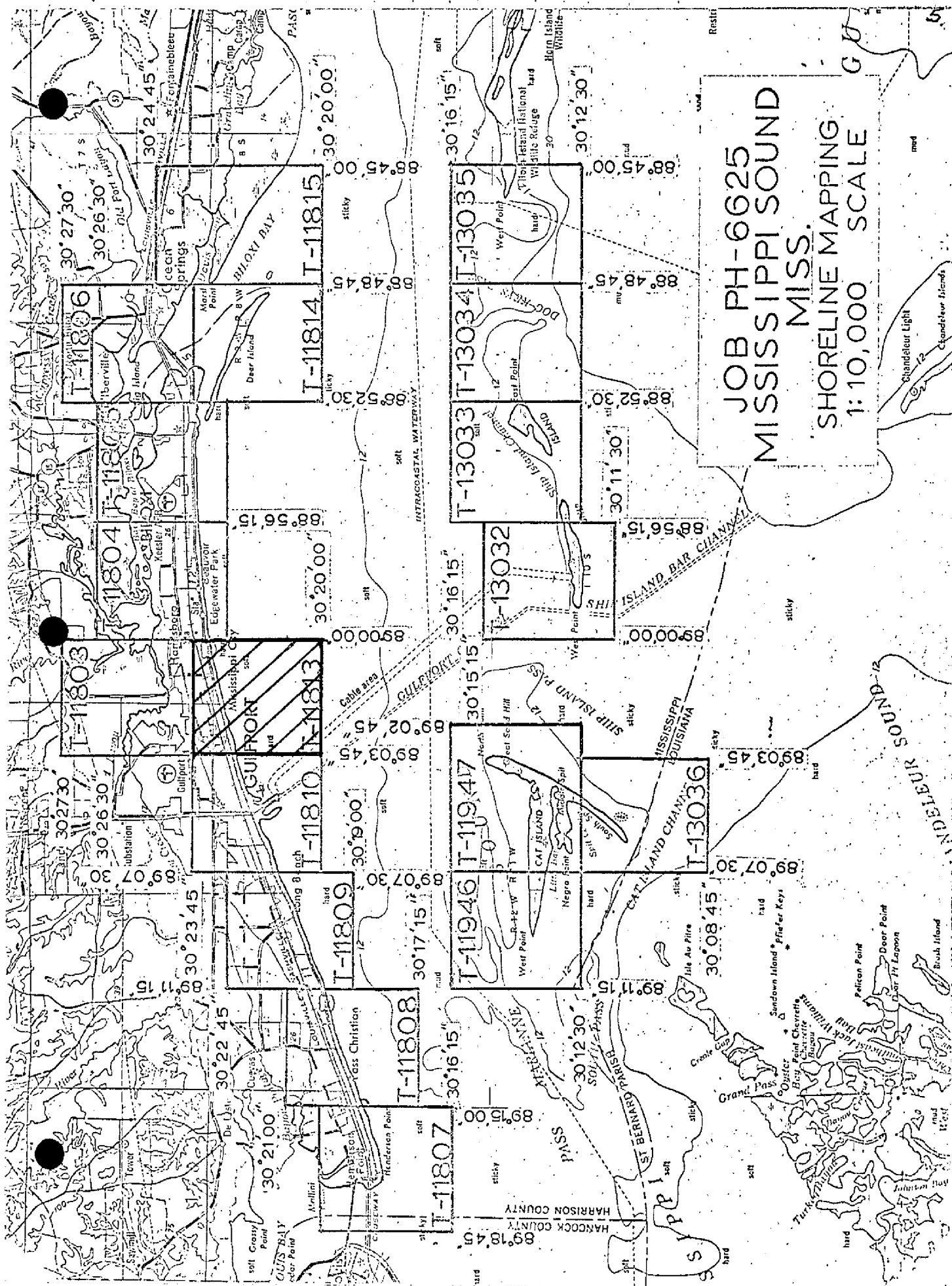
REMARKS:

COMPILATION RECORD

COMPILATION DATE

REMARKS

Alongshore area for hydro	Sept. 1966	Superseded
Field Edit applied Compilation complete	June, 1967	<i>Superseded</i>
<i>Revised during Final Review Aug. 1968</i>		



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11813

Shoreline manuscript T-11813 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-11813 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 was 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 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 February 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 August 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

There was no field inspection prior to compilation.

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.

9

#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:

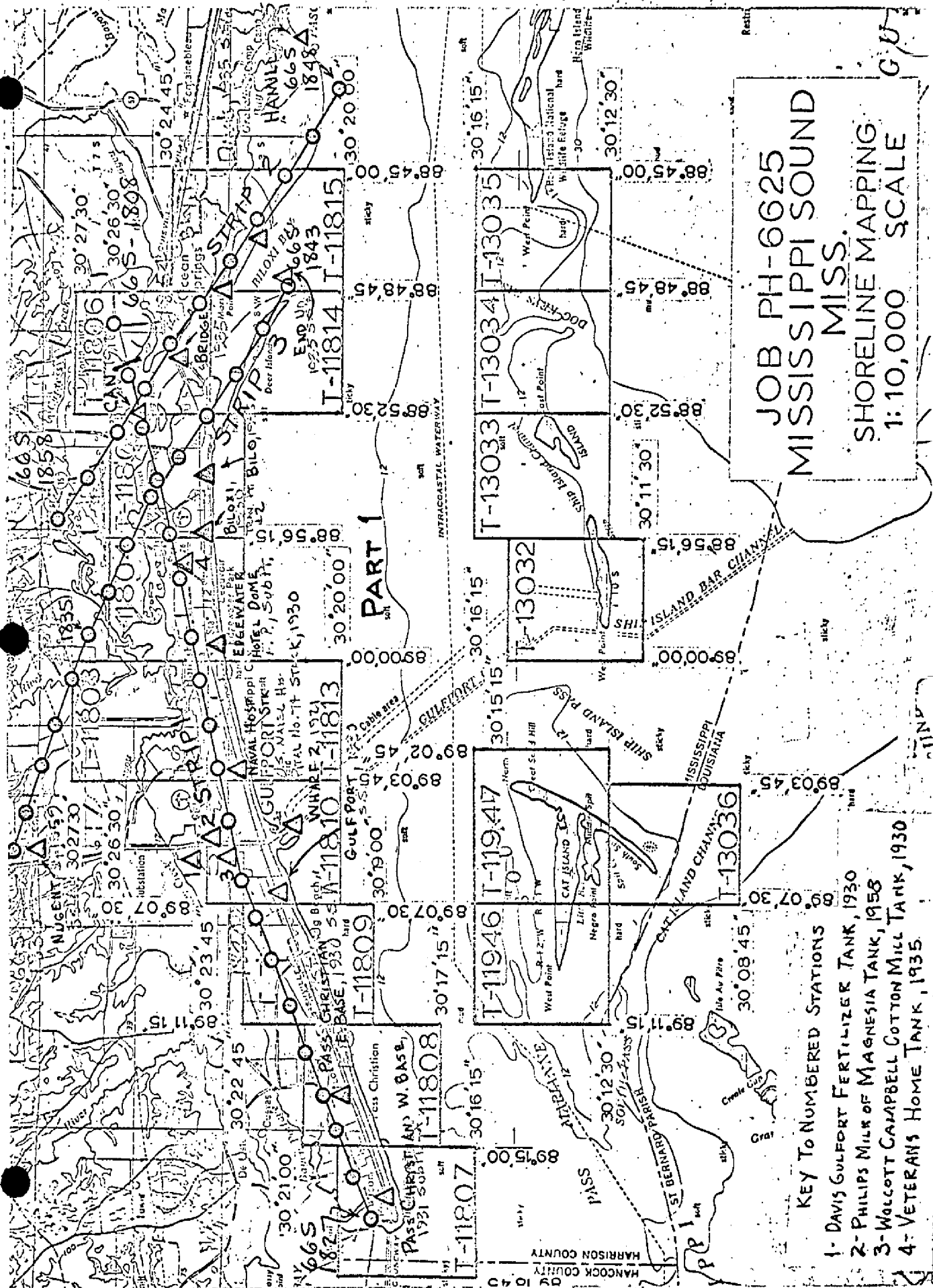
John D. Perrow Jr.
John D. Perrow, Jr.

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
MISS.
SHORELINE MAPPING
1:10,000 SCALE

KEY TO NUMBERED STATIONS

- 1- DAVIS GULFPORT FERTILIZER TANK, 1930
- 2- PHILIPS MILK OF MAGNESIA TANK, 1958
- 3- WALCOTT CAMPBELL COTTON MILL TANK, 1930
- 4- VETERANS HOME TANK, 1935

MAP T.....11813

PROJECT NO. PH-6625

SCALE OF MAP.....1:10,000

SCALE FACTOR.....None

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: A.C. Rauck, Jr.

DATE August 25, 1966

CHECKED BY: A. Santillan

DATE August 25, 1966

M - 2388-12

COMPILATION REPORT
T-11813

~~Photogrammetric Plot Report submitted with T-11813~~

31. DELINEATION

The Kelsh plotter was used. There was no field inspection. Photography was satisfactory.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS & DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Limits of shallow areas 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 were forwarded to the Washington Office under date June, 1967.

There were no Aids to Navigation.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11803 to the north, T-11804 to the east and T-11810 to the west. Mississippi Sound is to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS Quadrangle Gulfport North, Miss., scale 1:24,000, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart No. 876-SC, scale 1:40,000 dated February 26, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved & forwarded:

Ful *J. Bull*
J. Bull, CAPT, USESSA
Director, Atlantic Marine Center

A. L. Shands
A. L. Shands
Cartographic Aid

May 22, 1968

48.

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6625 (Mississippi Sound, Miss.)
T-11813

' Mississippi City
' Mississippi Sound

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

T-11813

49. NOTES FOR THE HYDROGRAPHER

Shallow areas shown on this sheet were determined by office interpretation of aerial photographs and are shown as an aid to the hydrographer. If any of the shallow areas shown do not exist, this fact should be noted on the field edit ozalid.

Refer to notes on field ozalid.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363
T-11813

1. PROJECTION AND GRIDS RES	2. TITLE RES	3. MANUSCRIPT NUMBERS RES	4. MANUSCRIPT SIZE RES
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RES	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) RES		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (WSC)	11. DETAIL POINTS Kelsh
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RES	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. RES	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS RES	18. OTHER ALONGSHORE PHYSICAL FEATURES RES	19. OTHER ALONGSHORE CULTURAL FEATURES RES
PHYSICAL FEATURES			
20. WATER FEATURES RES		21. NATURAL GROUND COVER RES	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RES
CULTURAL FEATURES			
27. ROADS RES	28. BUILDINGS RES	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RES
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RES		34. JUNCTIONS RES	35. LEGIBILITY OF THE MANUSCRIPT RES
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RES	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RES
40. REVIEWER RES <i>P. E. Smith</i>		SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauch, 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 <i>Servise L Borge</i>		SUPERVISOR <i>Albert C. Rauch, Jr.</i>	
43. REMARKS Field Edit was applied from cronaflex positive and Field Ratio photographs Nos. 66-S-1891 and 66-S-1892.			

FIELD EDIT REPORT

SHEET T-11813

JOB PH-6625

FEBRUARY 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 the manuscript.

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

All landmarks were located and verified and a Form 567 was submitted.

All field edit notes were made on the field ratio prints using 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 of the map manuscript was adequate and complete considering that there was no field inspection prior to compilation.

54 Recommendations

None.

56 Additional Information

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

66S1891

66S1892.

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 copy of the manuscript. The shoreline along this beach is subject to frequent change due to maintenance of the beach. The shoreline delineated on the manuscript is representative of the MHWL and should be charted as shown.

The obstruction (P.D.) shown on chart 876-SC in position Lat. 30-22.4, Long. 89-01.8, was searched for at the time of MLW and could not be found. HFP 742 plans to conduct an

56 Additional Information (cont.)

underwater investigation in that area. Consult boatsheet for location, if found, of this obstruction.

The note to verify shallow areas on the field edit ozalid is not applicable.

REVIEW REPORT T-11813
SHORELINE
August 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

Item 31 (Delineation) states "the Kelsh Plotter was used", however, all the "piling" in Mississippi Sound were located by radial plot method from the graphically fixed photographs 66-S-1891 through 1895. The position of the piling were checked by the Field editors plane table cuts.

An ozalid Comparison Print (pages 25 through 27), 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-9376 South half; 1:10,000; Field edit in 1954.

T-9381 North half; 1:10,000; Field edit in Sept. 1954.

The differences with the registered surveys are shown in blue on the Comparison Print.

- (a) T-9376 s/2 shows two piers, at longitude $89^{\circ} 01.1'$ and $89^{\circ} 01.27'$ that are not on T-11813. No remains are visible on the photographs and they were not noted by the field editor.
- (b) T-9376 s/2 shows what may have been a groin extending across the beach at longitude $89^{\circ} 02.95'$ that is not on T-11813. Only a storm drain about 25 meters to the west is visible on the photographs and the groin was not noted by the field editor.
- (c) The difference in shoreline is accounted for by the fact that the beach and thus the shoreline are artificially maintained.

T-11813 supersedes the previously registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

U.S.G.S. quad. GULFPORT NORTH, MISS.; 1:24,000; Field Check 1954.
 U.S.G.S. quad. GULFPORT SOUTH, MISS.; 1:24,000; Field Check 1954.

The quadrangles are reductions of topographic maps T-9376 and T-9381 and the same differences apply, see Item 62.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET H-8923 (HFP 742 10-3-66); 1:10,000; 1966.
 BOAT SHEET H-8925 (HFP 742 10-1-67); 1:10,000; 1967.

Boat sheet differences with T-11813 are on the Comparison Print in green.

- (a) The alignment of the easterly of two piers at longitude $89^{\circ} 00.75'$ differs. The offshore end was located by plane-table on the field edit cronaflex and is in fair agreement with Boat Sheet H-8923, but the inshore end of the pier differs by 25 meters. This is an entirely new pier since photography.
- (b) Boat Sheet H-8923 shows a "pile" at latitude $30^{\circ} 22.95'$, longitude $89^{\circ} 00.74'$, which is about 30 meters southeast of a pile "spotted" by the field editor on the field edit cronaflex.
- (c) The following details are on one of the boat sheets and not on T-11813; they are not visible on the photographs and were not noted by the field editor:
 - "pile" at lat. $30^{\circ} 22.38'$, long. $89^{\circ} 03.37'$
 - "pile" at lat. $30^{\circ} 22.74'$, long. $89^{\circ} 01.9'$
 - 4 piles at lat. $30^{\circ} 22.85'$, long. $89^{\circ} 01.27'$
 - "iron pipe at lat. $30^{\circ} 22.97'$, long. $89^{\circ} 00.63'$

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.

- (a) The chart shows the following details that are not on T-11813; they are not visible on the photographs, and were not noted by the field editor:
1. A pier in ruins at longitude $89^{\circ} 02'$.
 2. A pier in ruins at longitude $89^{\circ} 01.25'$.
 3. A pier in ruins at longitude $89^{\circ} 00.27'$.
 4. Two piles, one at latitude $30^{\circ} 22.3'$, longitude $89^{\circ} 03.14'$ and one at latitude $30^{\circ} 22.4'$, longitude $89^{\circ} 02.6'$.
- (b) The chart shows an obstruction at latitude $30^{\circ} 22.48'$, longitude $89^{\circ} 01.7'$ that is not visible on the photographs, was not found by field editor whose report states "H.F.P. plans to undertake an underwater investigation in that area". The hydrographer "searched for it with negative results" and "recommended deletion".
- (c) The chart shows numerous buildings east of longitude $89^{\circ} 01.6'$ that are not shown on T-11813. They were not called for by the field editor and the photographs indicate that most of them are 2 story or less, and most have large trees around them, into which they would merge from offshore. It is noted that the buildings marked with a red "X" on page 25 of the Comparison Print also appear to be questionable in their charting value, but they were compiled and on the ozalid copy furnished the field editor, and he did not delete them.
- (d) The difference in shoreline may be due to the artificial nature of the beach, as well as the 4x enlargement required to match T-11813.


66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Approved by:

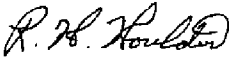
For 
J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Submitted by:


M. M. Slavney

Approved by:


Chief, Photogrammetric Branch, ^{US}


Chief, Photogrammetry Division

Chief, Nautical Chart Division

NOTES TO REVIEWER
T-11813, JOB PH-6625
BOAT SHEETS H-8923 (HFP 742 10-3-66) & H-8925 (HFP 742 10-1-67)

Items Please note ^{of item 64,} 64 and 65, particularly paragraphs (a) and (b), which involve small discrepancies between the field editor and the hydrographer.

66-S-1817

89°03'00"

A = Buildings not on Chart
 B = Only buildings that appear
 to have any "landmark
 value" for chart.
 W.M.S.

30°23'00"

X = Buildings of ? value as landmarks, Mississippi City
 but not deleted by field editor-W.M.S.

T-9376 ^{5/2}

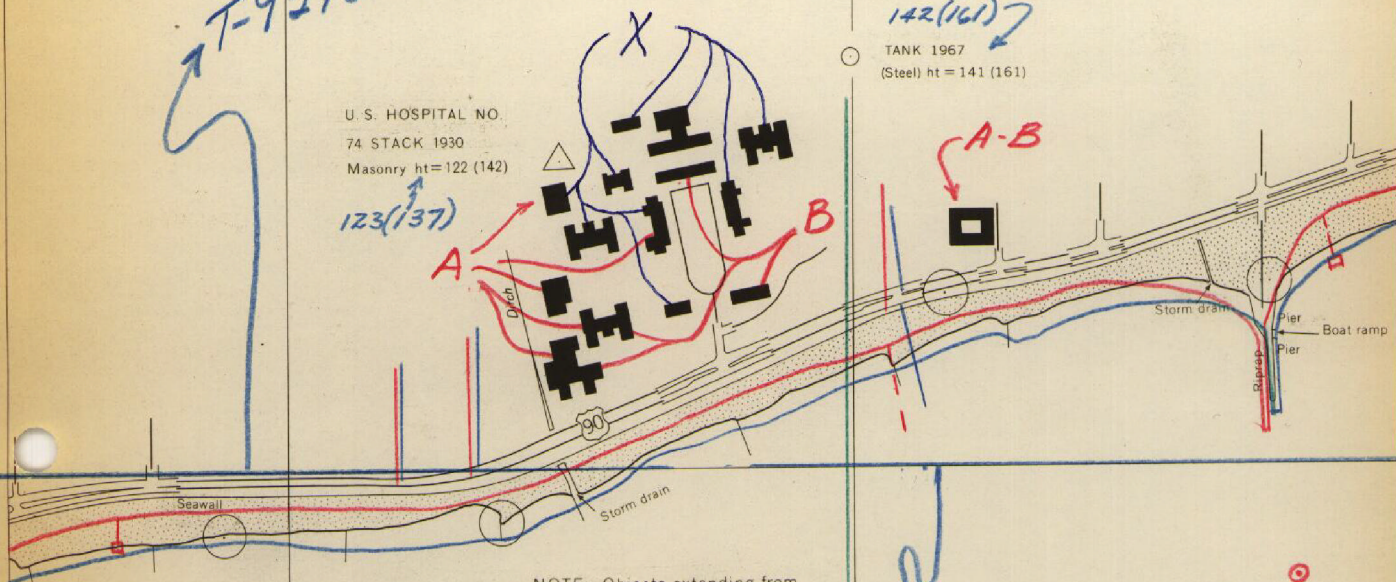
U. S. HOSPITAL NO.
 74 STACK 1930
 Masonry ht = 122 (142)

123(137)

142(161)

TANK 1967
 (Steel) ht = 141 (161)

A-B



NOTE: Objects extending from
 beach into Mississippi Sound
 are storm sewer outlets unless
 otherwise labelled.

T-9381 ^{1/2}

H-8925

H-8923

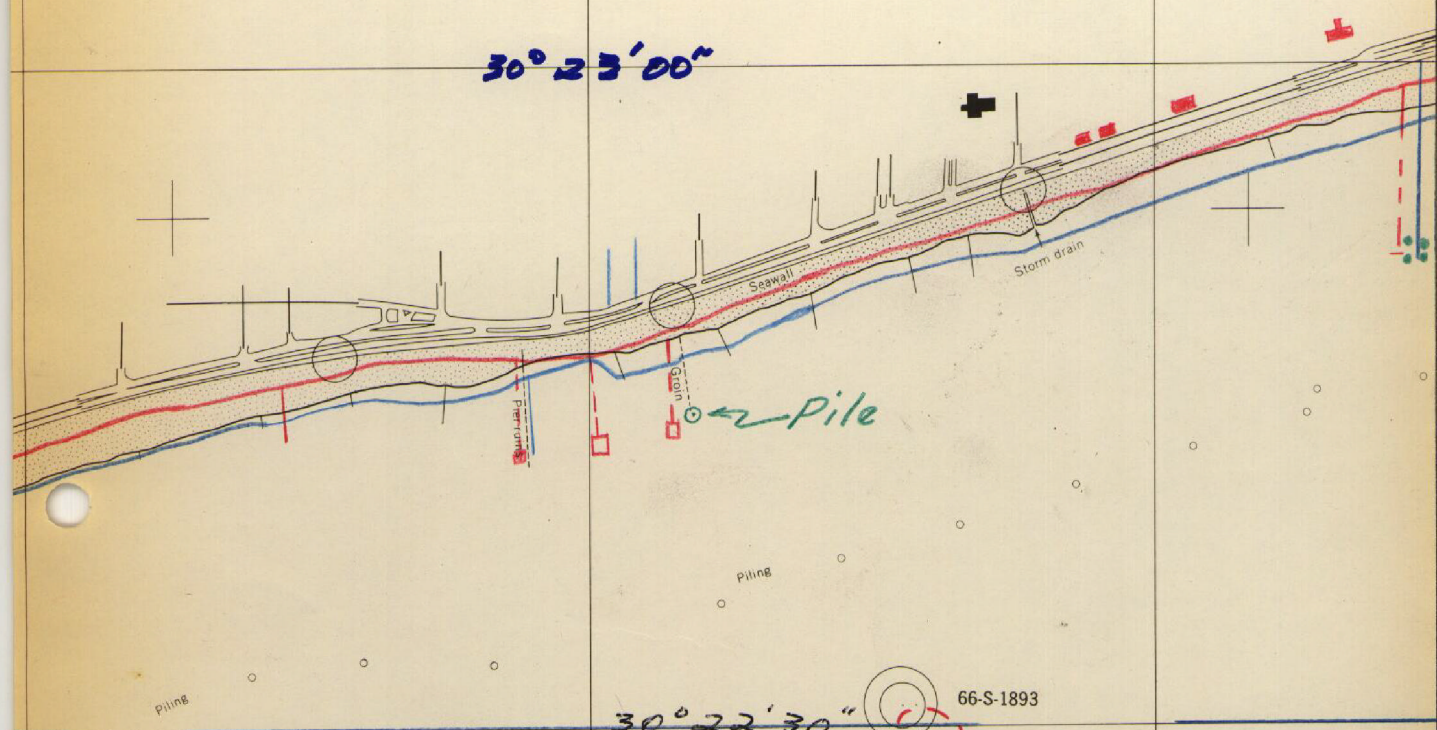
66-S-1891

30°22'00"

89°02'00"

01'30"

30°23'00"



30°22'30" 66-S-1893 Obstr.

Not found by field editor, whose report says:
"HFP plans to conduct an under water investigation in that area."

Hydrographer: "Searched for with negative results; recommend that this be deleted from chart"

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

H-8923

30°22'00"

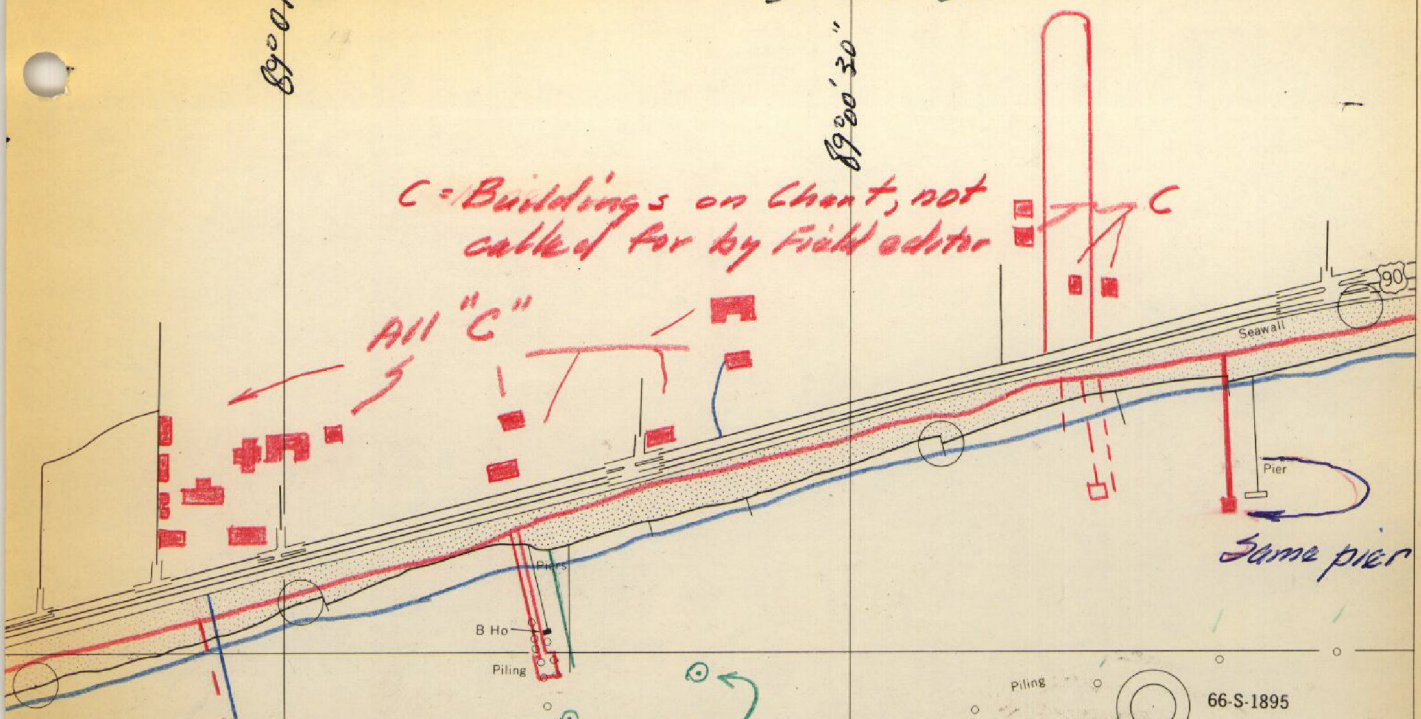
89°01'00"

30° 23' 30"

89°20'30"

C = Buildings on Chart, not called for by Field editor

All "C"



Same pier

B Ho
Piling

Pile

Inch Pipe

Piling

66-S-1895

66-S-1894

NOTE: Objects extending from beach into Mississippi Sound are storm sewer outlets unless otherwise labelled.

H-8923

30° 22' 30"