

TP-00039

TP-00039

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Job No. PH-6902..... Map No. TP-00039.....

Classification No. Edition No. ...1.....

Field Edited

## LOCALITY

State ..Mississippi..- Louisiana.....

General Locality Lake Borgne.....

Locality Bay St. Louis.....

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19 69 TO 1970

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## REGISTRY IN ARCHIVES

DATE .....

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

## DESCRIPTIVE REPORT - DATA RECORD

1

TP-00039

PROJECT NO. (II):

PH-6902

FIELD OFFICE (III):

Pass Christian, MISS.

CHIEF OF PARTY

D. M. Fuller

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

INSTRUCTIONS DATED (II) (III):

Office-Aerotriangulation - June 13, 1969  
Office-Compilation - July 25, 1969  
Office-Amendment I - Oct. 6, 1969  
Office-Amendment 2 - Dec. 11, 1969  
Office-Supplement I - May 13, 1970  
Post Compilation Field ~~No Date~~ Apr. 6, 1970  
Field - April 28, 1969  
Field - Supplement I - October 7, 1969  
Review of Instructions - June 20, 1972

METHOD OF COMPILATION (III):

Wild B-8 Stereoplotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:15,000 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):

Sept. 24, 1975

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):  
High water

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):

West, 1954

LAT.:

LONG.:

30° 19' 08.841" 272.2 M 89° 19' 15.975" 426.8 M

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

237,603.05 Ft. x = 346,092.03 Ft.

Mississippi

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  
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FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo Compilation - June 3, 1969, Date of Photography, Oct. 16, 1969 (After "Camille")		
PROJECTION AND GRIDS RULED BY (IV): Coradomat Auto Plotter		DATE
PROJECTION AND GRIDS CHECKED BY (IV): Coradomat Auto Plotter		DATE
CONTROL PLOTTED BY (III): Coradomat Auto Plotter Triangulation - B. Wilson		DATE Feb. 20, 1970
CONTROL CHECKED BY (III): Coradomat Auto Plotter Triangulation - A.C. Rauck, Jr.		DATE Feb. 20, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): R.E. Fisher		DATE Oct., 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III):  Wild B-8	PLANIMETRY A. Shands Reviewed by C.H. Bishop	DATE Jan. 31, 1970 Jan. 31, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson		DATE
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation - C. H. Bishop Field Edit - A. Shands		DATE Feb. 20, 1970 Aug. 3, 1970
REMARKS: Field Edit By: Rodger P. Hewitt Date: Dec., 1970		



## DESCRIPTIVE REPORT - DATA RECORD

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CAMERA (KIND OR SOURCE) (III):

Wild RD-8 "L"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69L(C)-9457	June 3, 1969	13:29 CST	1:30,000	2.1 ft. above MLW
69L(C)-6205-6206	Oct. 16, 1969	12:10 CST	1:20,000	0.0 ft. above MLW
69L(C)-6215-6219	Oct. 16, 1969	12:10 CST	1:20,000	0.0 ft. above MLW
69L(C)-6284-6287	Oct. 16, 1969	13:06 CST	1:20,000	0.1 ft. below MLW
69L(C)-6252-6253	Oct. 16, 1969	12:39 CST	1:20,000	0.0 ft. at MLW
69L(C)-6255-6257	Oct. 16, 1969	12:39 CST	1:20,000	0.0 ft. at MLW
69L(C)-6267-6268	Oct. 16, 1969	12:49 CST	1:20,000	0.1 ft. below MLW
69L(C)-6276-6278	Oct. 16, 1969	13:06 CST	1:20,000	0.1 ft. below MLW

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Pensacloa, Florida		Tide 0.6'	1.3'
SUBORDINATE STATION: Bay St. Louis, Mississippi		0.8'	1.6'
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

4

RECOVERED:

4

IDENTIFIED:

1

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

2 Recovered \*

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

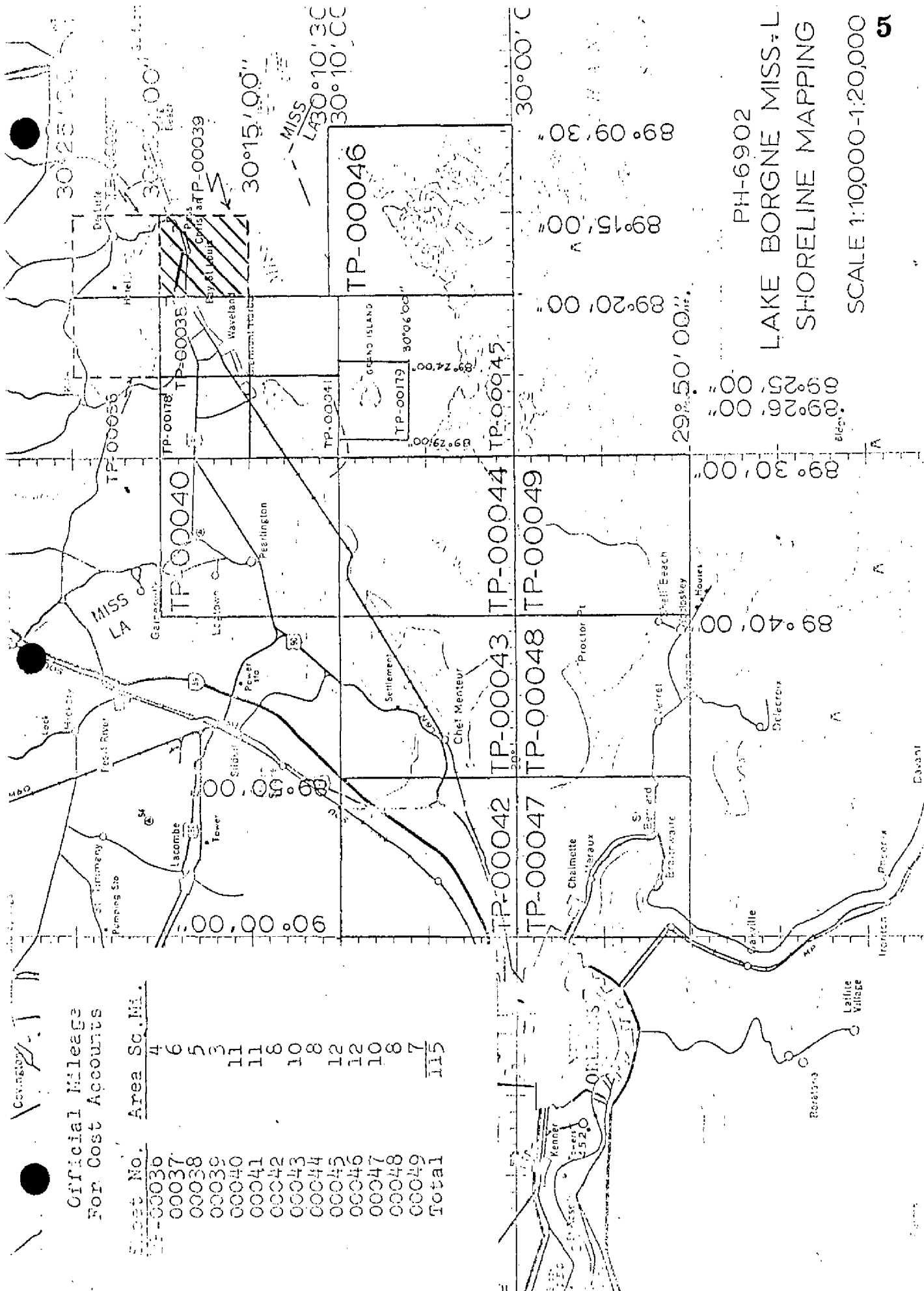
\*See Forms 524 &amp; 152 for Arch, 1950 and Bank, 1950.

TP-00039

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Feb., 1970	Superseded
Field Edit Applied	Aug., 1971	Superseded
Final Review	Feb., 1974	

Official Mileage  
For Cost Accounts

Sheet No.	Area Sq. Mi.
TP-00036	4
00037	6
00038	5
00039	3
00040	11
00041	11
00042	8
00043	10
00044	8
00045	12
00046	12
00047	10
00048	8
00049	7
Total	115



PH-6902  
LAKE BORGNE MISS-L  
SHORELINE MAPPING

SCALE 1:10,000-1:20,000

## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORT TP-00039

This 1:10,000 scale shoreline manuscript is one of 16 maps that comprise Project PH-6902, Lake Borgne, MISS. - LA. The project diagram indicates the location of this map in the project.

The only field work prior to compilation was recovery and premarking of horizontal control required for aerotriangulation.

Hurricane Camille, which struck the Gulf Coast in August, 1969, caused extensive damage and shoreline changes in the mapping area. Bridging photography was taken in June 1969, before the hurricane. In general, piers and roads were compiled with the B-8 plotter, using diapositives of the bridging photographs. New photographs were taken at 1:20,000 scale in October, 1969. Shoreline was compiled graphically from these photographs because they were taken after the hurricane and were of better tonal quality.

Field edit was done in December, 1970. One aid to navigation was relocated by planetable during this operation.

Final review was done at the Atlantic Marine Center in February, 1974.

The original manuscript was a stabilene sheet five (5) minutes in latitude by five (5) minutes in longitude.

A negative and a cronaflex positive copy of the final reviewed map were forwarded for record and registry.

## FIELD INSPECTION REPORT

PH - 6902

TP-00039

There was no field inspection prior to compilation.

Shoreline Mapping, Lake Bergne, La.

FIELD

JOB PH-6902

Premark was done in accordance with Instructions received 29 April, 1969.

All stations were premarked using panel array no. 2.

MILT, 1969 was established in target area no. 4 on flight line 30-1. Permission to establish MILT, 1969 as third-order was obtained from C-1413.

Photography was completed on 3 June 1969.

Respectfully Submitted,

*Dale M. Fuller*

Dale M. Fuller  
Photo Party 61  
Pass Christian, Miss

Photogrammetric Plot Report  
Lake Borgne, Miss.  
Job PH-6902

October 1969

21. Area Covered

This project dealt with an area on the Mississippi Gulf Coast in the Mississippi Sound - St. Louis Bay area. T-sheets covering this area are as follows:

1:10,000 sheets:

TP-00036, TP-00037, TP-00038, TP-00039

1:20,000 sheets:

TP-00041

22. Method

Strip #1 (Photos 69-L(C)-9449-62) was bridged on the Zeiss C-8 stereoplanigraph. Strip #3 (Photographs 69-L(C)-9408-16) was bridged on the Zeiss C-5 stereoplanigraph.

Strip #2 was not bridged. It was decided that the side overlap of Strips #1 & 3 was such that the bridging of Strip #2 was unnecessary. Model 9469-70 in Strip #2 can be controlled using tie points 69-L(C)-57801, 12801, 13801, 13802, 13803 and 13804 from the other strips.

Strips #1 and #3 were adjusted using the conventional aerotriangulation strip adjustment method.

23. Adequacy of Control

The location and number of horizontal control points was adequate for both Strip #1 and Strip #3. All control was held to within acceptable limits.

Strip #1 was adjusted using five of the eight horizontal control stations in the strip. Strip #3 was adjusted using all three control stations in the strip plus tie point #65801 from Strip #1.

24. Supplemental Data

None

-2-

25. Photography

The photography for this project was acceptable but was darker than desired. Darkness became especially objectionable near the corners of the models. All of the photography suffered from this trouble.

For some reason no fiducials appeared on the photography. The fiducial lights in the camera were probably not operating at the time of photography.

Submitted,



Robert E. Fisher

Approved and forwarded,



Henry P. Eichert  
Chief, Aerotriangulation  
Section



# DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 00039 PROJECT NO. PH-6902 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 ft. = 3048006 meter) FORWARD (BACK)
East, 1954	P.C. Form 164	N.A. 1927	236, 699.02	1,699.02 (3,300.98)
West, 1954	300892 1071	N.A. 1927	354, 393.34	4,393.34 (606.66)
Pass Christian Inn By The Sea Tank, 1931	300892 1107	N.A. 1927	30° 19' 08.841"	272.2 (1575.4)
Henderson, 1917	300892 1038	N.A. 1927	89° 19' 15.975"	426.8 (1176.2)
			30° 18' 31.189	960.4 (887.2)
			89° 17' 36.294"	969.7 (633.4)
			30° 18' 14.721"	453.3 (1393.6)
			89° 17' 19.465"	520.1 (1083.1)
COMPUTED BY A.C. Rauck, Jr.	DATE Dec. 1, 1969	CHECKED BY B. Wilson	DATE Feb. 19, 1970	11

## COMPILATION REPORT

TP-00039

SPECIAL NOTE

The area north of 30° 18' and east of 89° 18' 45" was compiled as T-11807 (PH-6625). TP-00039 was tied to it within the requirements of the National Standards of Map Accuracy, although the alignment of the bridges is not perfect.

Hereinafter this compilation report pertains only to the portion not covered by T-11807.

31. DELINEATION

The Wild B-8 used for delineation of the roads; the other detail was graphically compiled.

There was no field inspection prior to compilation.

Photography was of excellent quality but excessive in number.

32. CONTROL

See Photogrammetric Plot Report dated Oct., 1969.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours - inapplicable.

Drainage was delineated from office interpretation of the photos.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated from office interpretation of the "before" and "after" hurricane "Camille" photos.

Some of the piers-in-ruins were delineated from the "before" photos, assuming that there may be some pilings still in position even though no traces were visible on the later photos.

No low water line was compiled. The photography, all at zero tide, indicated all the mean low water to be very close to the mean high water.

36. OFFSHORE DETAILS

See items 37 and 46.

37. LANDMARKS AND AIDS

Three Forms 76-40 were submitted to the Rockville office in February, 1974. *Chart Letter No. 252.*

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

There is only open water to the south of this map, and no contemporary survey to the east.

Satisfactory junctions have been made with TP-00038 to the west and TP-00037 to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS BAY ST. LOUIS quadrangle, scale 1:24,000, dated 1956.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 876-SC, scale 1:40,000, 4th edition, corrected to Oct. 26, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

(1) A submerged wreck just south of the west end of the R.R. bridge.

(2) Two ruins, on each side of the west of the highway bridge.

Respectfully submitted

*Charles H. Bishop*

for B. Wilson  
Cartographic Technician  
February 20, 1970

Approved for forwarding:

*J. G. Carlen*

Jeffrey G. Carlen, CDR, NOAA  
Chief, Coastal Mapping Division, AMC

Approved:

*Alfred C. Holmes*

Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Jan. 28, 1974

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6902 (Mississippi Sound, Miss.-La.)

TP-00039

Bay St. Louis

Bay St. Louis Bridge

Henderson Point (community)

Henderson Point

Louisville and Nashville (RR)

Mallini Bayou

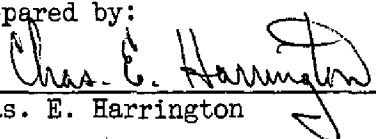
Mallini Point

Mississippi Sound

Pass Christian

St. Louis Bay

Prepared by:

  
Chas. E. Harrington

Staff Geographer

## PHOTOGRAMMETRIC OFFICE REVIEW

T-P-00039

16

1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB		4. MANUSCRIPT SIZE	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY Coradomat Auto Plotter				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X	
8. BENCH MARKS X		9. PLOTTING OF SEXTANT FIXES X		10. PHOTOGRAMMETRIC PLOT REPORT Bridge-W.O.		11. DETAIL POINTS X	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE X		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES CHB	
16. AIDS TO NAVIGATION		17. LANDMARKS CHB		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X X	
23. STEREOSCOPIC INSTRUMENT CONTOURS X X		24. CONTOURS IN GENERAL X X		25. SPOT ELEVATIONS X X		26. OTHER PHYSICAL FEATURES X	
CULTURAL FEATURES							
27. ROADS CHB		28. BUILDINGS CHB		29. RAILROADS X		30. OTHER CULTURAL FEATURES X	
BOUNDARIES							
31. BOUNDARY LINES X X				32. PUBLIC LAND LINES X X			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CHB				34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY CHB		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS X		39. FORMS CHB	
40. REVIEWER C.H. Bishop				Date 2-28-70		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr.	
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 A.L. Shands				Date: 8-4-71		SUPERVISOR	
Reviewer: C.E. Blood							
43. REMARKS Field Edit Applied From - Field Edit Ozalid June, 1970 Field Edit Planetable Sheet, Cronaflex - Photograph 69L(C)-6252							

## FIELD EDIT REPORT

TP - 00039

JOB PH 6902

SHORELINE MAPPING

LAKE BORGNE, LOUISIANA

DECEMBER, 1970

Respectfully Submitted,

*R. P. Hewitt*Roger P. Hewitt, Ensign NOAA  
Chief, Photo Party 61

TP - 00039

## FIELD EDIT REPORT

JOB PH-6902

## SHORELINE MAPPING

## LAKE BORGNE, LOUISIANA

52. Adequacy of Compilation

Considering there was no Field Inspection prior to compilation, the compilation was adequate.

54. Recommendations

None.

56. Additional Information

Numerous piling and piers were located by planetable methods on the cronaflex copy of the manuscript.

In the Mallini Point area a series of canals were located by planetable methods on the cronaflex copy to aid the hydrographer

A Form 567 was submitted for all Aids to Navigation and LDMK'S.

The ozalid copy serves as an index and inventory for all corrections to be applied to the manuscript. All corrections are shown in violet ink.

At the time of field edit the piers on this manuscript were in various stages of being rebuilt. Also during hydrography the piers were being rebuilt. The boat sheet location of the piers are the latest and should be considered current.

Two new small craft facilities were located on the ozalid copy and a form 77-3 was submitted for each. One facility was discontinued and a form 77-3 was submitted.

Two boat ramps were delineated on the ozalid copy.



[illegible]

[illegible]

[illegible]

## REVIEW REPORT TP-00039

## SHORELINE

FEBRUARY 8, 1974

61. GENERAL STATEMENT:

See summary on page six of the Descriptive Report.

An ozalid comparison print showing differences noted in Par. 62, 64 and 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with survey T-9379 N/2 and S/2, 1:10,000 scale, dated August, 1956. Significant differences between the old surveys and TP-00039 were shown in blue on the comparison print.

Transmission line poles, telephone poles, a submerged gas line, and a submerged cable mapped on T-9379 were not visible on the 1969 photography.

Shoreline changes east of Mallini Point are due to canals dug in a land development area since T-9379 was mapped.

TP-00039 supersedes previous topographic surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle BAY ST. LOUIS, MISS., 1:24,000 scale, dated 1956. This map was copied from T-9379; therefore, differences were found to be the same.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Boat sheets H-9156 (north of Lat. 30° 18' 30") and H-9177 (south of Lat. 30° 18' 30"), both 1:10,000 scale and both dated 1970. Few differences were noted. They are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 876-SC, 1:40,000 scale, 8th edition, dated Nov., 1972. Significant differences were shown in red on the comparison print

The position of Pass Christian Channel West Entrance Light 1, 1970 on TP-00039 is the field edit position located by plane-table on August 11, 1970. This position is in agreement with the position on Boat Sheet H-9177. The charted position appears to be pre-hurricane position.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with project instructions and meets the requirements for National Standards for Map Accuracy.

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer

Approved for forwarding:

*Jeff Carlen*  
Jeffrey G. Carlen, CDR, NOAA  
Chief, Coastal Mapping Division

Approved:

*Alfred C. Holmes*  
Alfred C. Holmes, RADM, NOAA  
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division





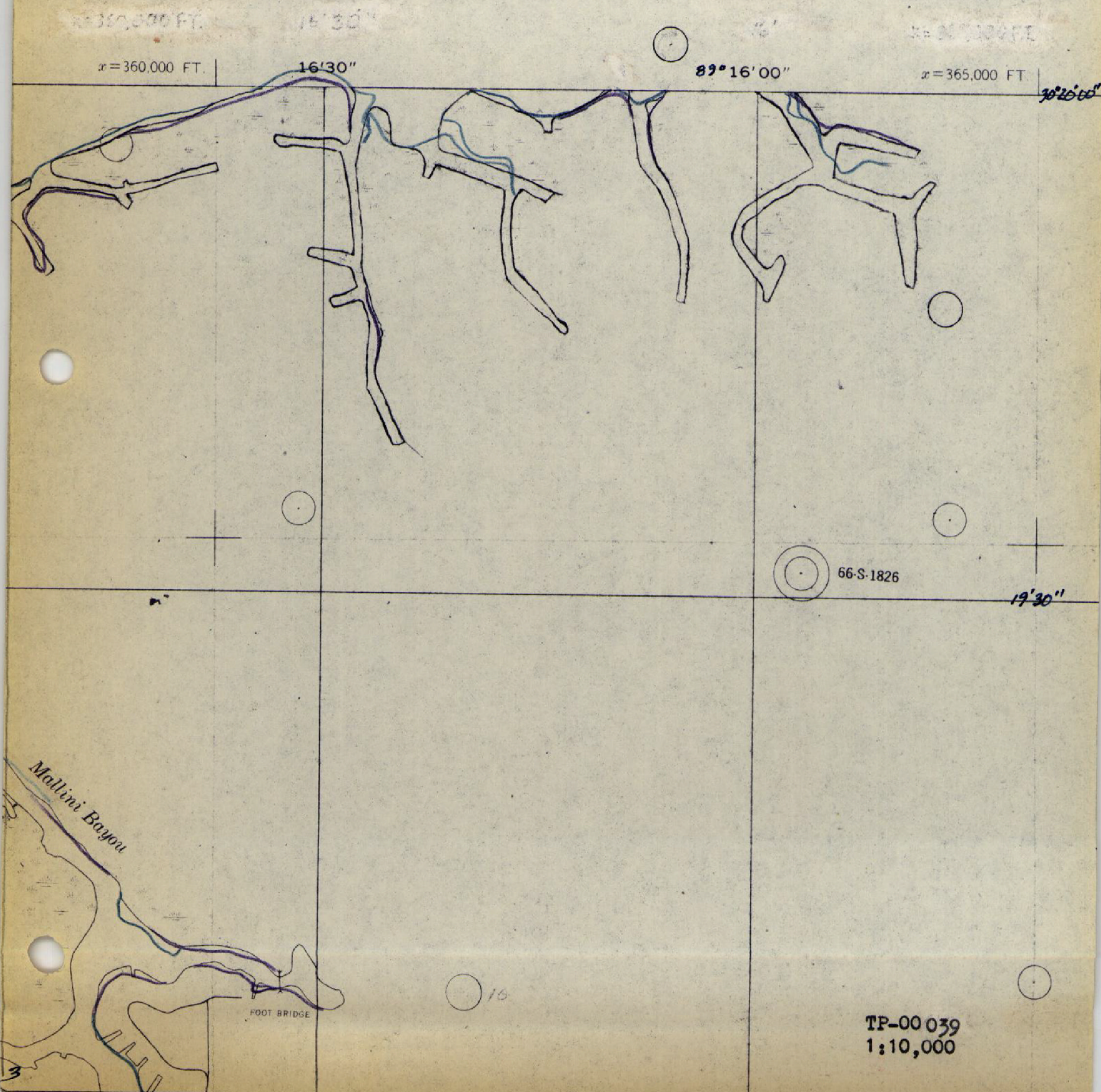






## COMPARISON PRINT

Blue = T-9379 N/2  
Purple = H-9156





BAY ST LOUIS

69 L(C) 6256

$$y = 235,000 \text{ FT}$$

DOME 1970  
ht = 90 (112)

69 L(c) 6252

TOWER 1970  
ht = 85 (105)

~~18'30"~~

+++ ~ not visible on photos.

Pier charted in good repair

COMPARISON PRINT

Blue = T-9379 S/2  
Purple = H-9177  
Red = Chart 876 SO

~~30° 18' 00"~~
$$y = 230,000 \text{ FT.}$$

69 L(C) 6253

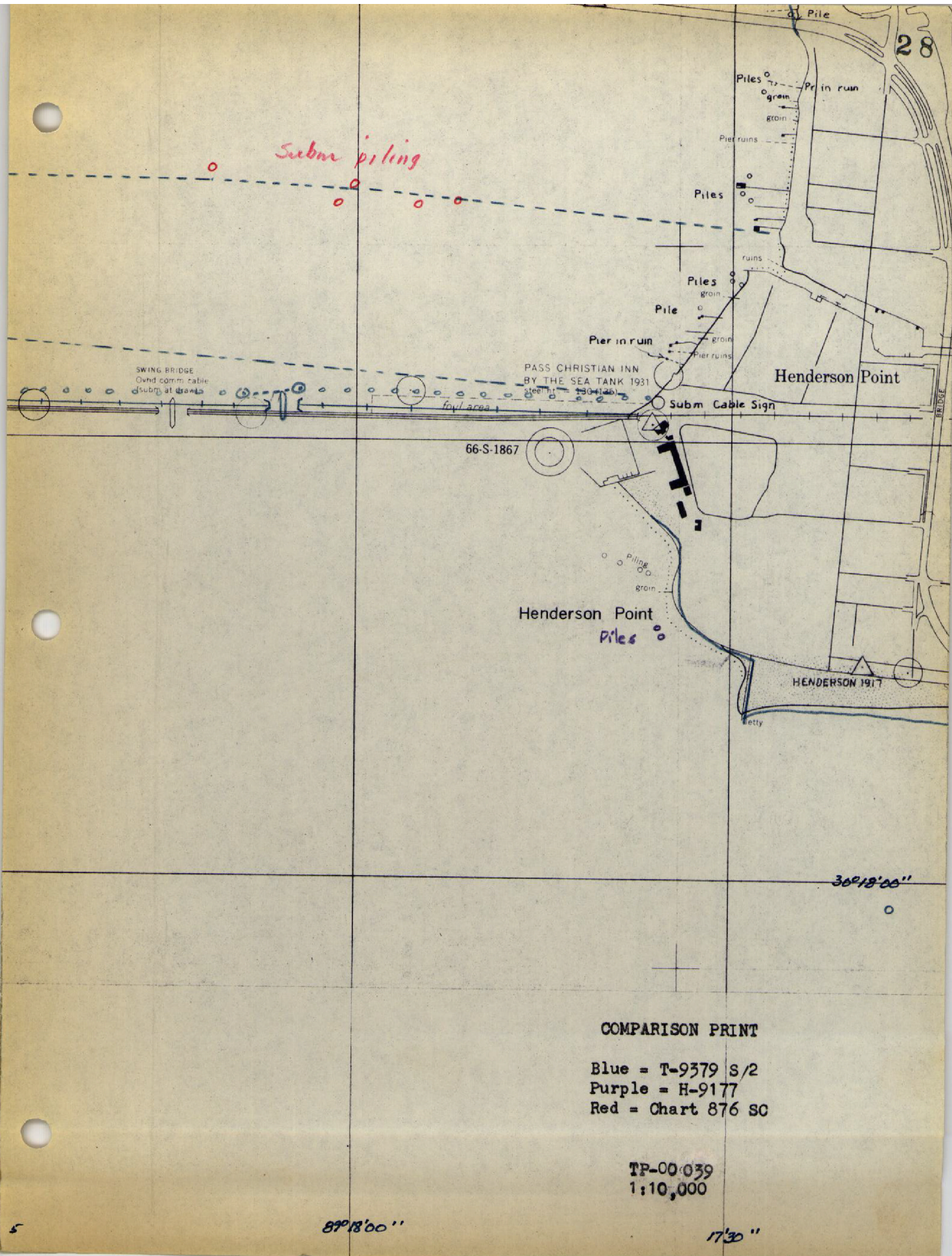
69 L(C) 6219

TP-00039  
1:10,000

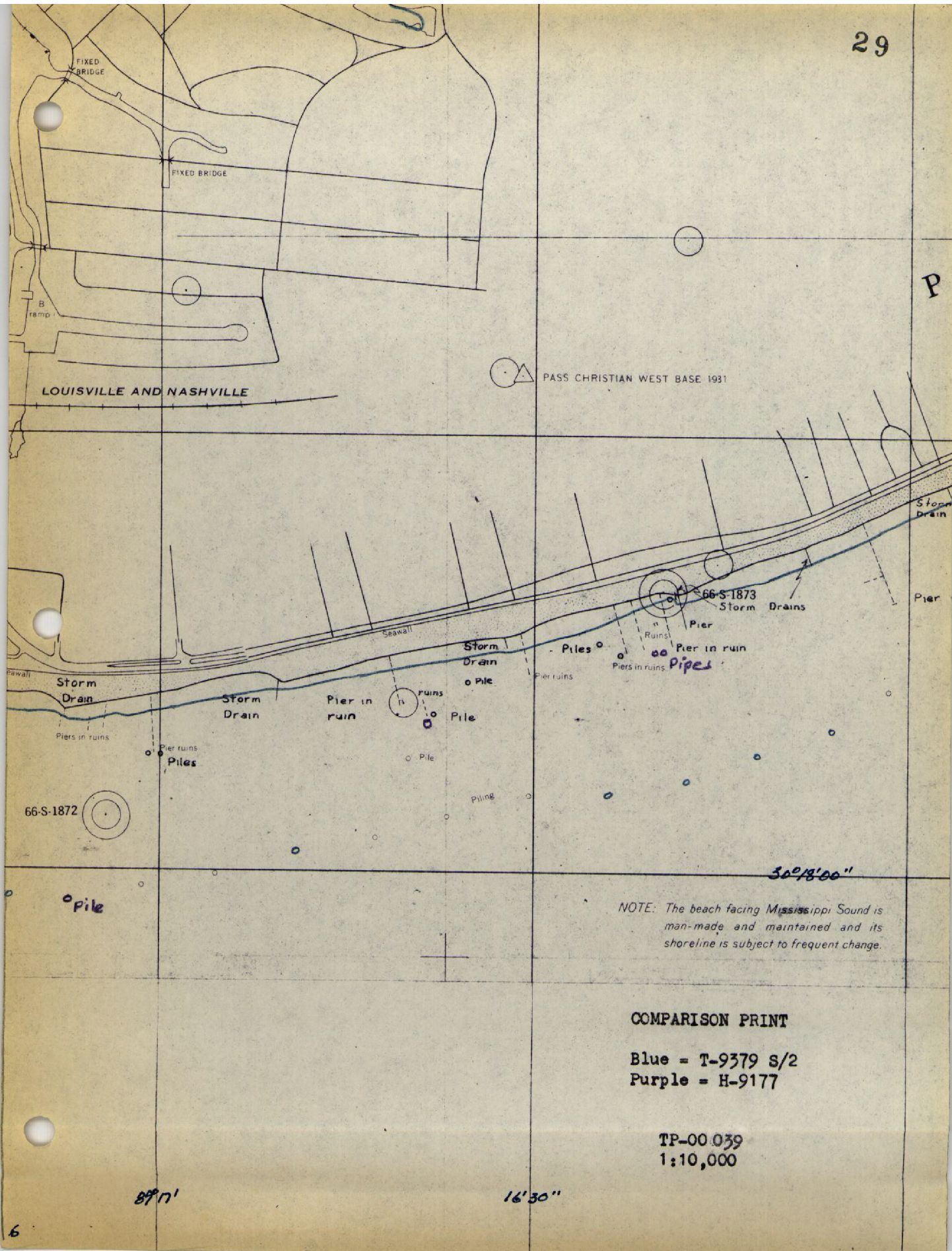
19' 30"

89° 19' 00"

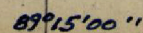














Henderson Point

31

HENDERSON 1917

Seawall

Storm  
Drain

Storm  
Drain

Pier in  
ruin

runs

Pile

Pile

Pier ruins

Piles

66-S-1872

COMPARISON PRINT

Purple = H-9177

TP-00039  
1:10,000

*Located on H-9177  
Not visible on photos*

+++