13109

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U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

	Shoreline - Office No. T-13109
	LOCALITY
State Florida	1
General locality	Clorida Coast
	1
	19 66-6/1-68
CI	HIEF OF PARTY
LIBRA	ARY & ARCHIVES
DATE	-

USCOMM-DC 5082

FORM C&GS-181a (12-61)	U.S. DEPARTMENT OF CO COAST AND GEODETIC
DESCRIPT	IVE REPORT - DATA RECORD
	T -13109
PROJECT NO. (II):	
РН-6710	
FIELD OFFICE (II):	CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Washington Science Center	V. Ralph Sobieralski
NSTRUCTIONS DATED (II) (III):	
Office: April 6, 1967; Apri	1 27, 1967
Stereoscopic - B-8 stereoplo	tter
ETHOD OF COMPILATION (III): Stereoscopic - B-8 stereoplo	
Stereoscopic - B-8 stereoplo: Automotion (III): Stereoscopic B-8 Stereoplo: B-	stereoscopic plotting instrument scale (III):
Stereoscopic - B-8 stereoplomanuscript scale (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
ETHOD OF COMPILATION (III): Stereoscopic - B-8 stereoplo: ANUSCRIPT SCALE (III): 1:20,000 ATE RECEIVED IN WASHINGTON OFFICE (IV):	stereoscopic plotting instrument scale (III):
ethod of compilation (III): Stereoscopic - B-8 stereoplo: ANUSCRIPT SCALE (III): 1:20,000 ATE RECEIVED IN WASHINGTON OFFICE (IV):	stereoscopic plotting instrument scale (III): 20,000 Date reported to nautical chart branch (IV):
ETHOD OF COMPILATION (III): Stereoscopic - B-8 stereoplo: ANUSCRIPT SCALE (III): 1:20,000 ATE RECEIVED IN WASHINGTON OFFICE (IV): PPLIED TO CHART NO.	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 20,000 DATE REPORTED TO NAUTICAL CHART BRANCH (IV): DATE: DATE: DATE REGISTERED (IV): WERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS:
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LAT.: LONG.: ___ ADJUSTED UNADJUSTED 27°18'02.393" 80°15'27.423" PLANE COORDINATES (IV): STATE ZONE Y: 1,079,137.74 741,096.51

Florida

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.

East

DESCRIPTIVE REPORT - DATA RECORD

T-13109

DATE: FIELD INSPECTION BY (II): None (See remarks below) MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation Nov. 1966 - Feb. 1967 Field Edit - May 1968 PROJECTION AND GRIDS RULED BY (IV): DATE 11-3-66 A. E. Roundtree PROJECTION AND GRIDS CHECKED BY (IV): 11-15-66 R. Glaser CONTROL PLOTTED BY (III): 5-15-67 J. Taylor DATE CONTROL CHECKED BY (III): 5-15-67 R. A. Youngblood RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): DATE May-Oct. 1967 R. B. Kelly STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY May 1967 DATE CONTOURS R. A. Youngblood MANUSCRIPT DELINEATED BY (III): May 1967 R. A. Youngblood SCRIBING BY (III): PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE March 1969 J. P. Battley, Jr. REMARKS: Field Edit by: R. S. Tibbetts - May 1968

DESCRIPTIVE REPORT - DATA RECORD

T-13109

MERA (KIND OR SOURCE) (III):

"L" 6" focal lengt	h camera (co	lor) "S" RC	-8 camera (infrared)
PHOTOGRAPHS (III)				
NUMBER	DATE TIME SCALE S			STAGE OF TIDE
66-L(c)-8725-8728	11-26-66	9:38	1:40,000	1.1' above MLW
67-S-8263-8266R	2-24-67	9:11	1:40,000	1.0' above MLW
	* base	d on predict	ied tides	

	TIDE (III)				
			RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Miami Harbor Entrance			2.5	3.0
Sewall Point, St. Lucie River			.40	1.0	1.2
SUBORDINATE STATION:					
WASHINGTON OFFICE REVIE	EW BY (IV): J. P. BATTLEY		DATE:	1969	
PROOF EDIT BY (IV):			DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED:		IDENTIFIED:			
NUMBER OF BM(S) SEARCHE	D FOR (II):	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE	PHOTO STATIONS ESTABLISHED (III):				

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

Summary to Accompany Descriptive Report T-13100 through T-13117, T-13141 and T-13218

PH-6710 December 1969

This project is comprised of thirteen shoreline manuscripts compiled at 1:20,000 scale, (T-13100 through T-13112), four manuscripts compiled at 1:10,000 scale, (T-13113 through T-13115) and three 1:5,000 scale manuscripts, (T-13116 through T-13117). The area covered is the east coast of Florida from Cape Kennedy to just south of Jupiter Inlet. The maps were compiled as a base for hydrographic survey operations and to update marine charts of the area. Two manuscripts, (T-13218 and T-13141) were added to the project after hydro operations were begun and are discussed in this summary.

Field inspection was accomplished during Sept.-Oct. 1966 and was limited to the recovery and premarking of control.

The project area was flown in November 1966. Infrared and color photography was taken.

Stereoplanigraph bridging of the color photography was begun in April 1967 and continued through October 1967. To support hydrographic survey operations, the bridging data was supplied the Washington compilation section as each of nine strips were bridged. Strips #2 through #8 were bridged by stereoplanigraph methods. Strip #1 was bridged analytically. All bridging photography was 1:40,000 scale. Some difficulty was experienced in bridging the project area - (see the Plot Report for details).

The manuscripts were compiled as bridging was received from April 1967 through February 1968. Ratio photographs were prepared in the usual manner for photo-hydro support use. The photographs prepared were both infrared and color. The field ratio prints, cronaflex copies of the manuscripts and discrepancy ozalids were sent to the field, as completed, to expedite hydro activities. Two new manuscripts were added to the project after hydro operations were begun to develop

more of the Loxahatchee River which empties into Jupiter Inlet (T-13141, 1:10,000 scale), and T-13218, 1:5,000 scale to further develop the Ft. Pierce harbor area. This accounts for compilation activities extending to June 1968. In the area of the 1:10,000 scale manuscripts - 1967 1:30,000 scale color and infrared photography was available for compilation. In the area of the two 1:5,000 scale manuscripts (T-13116 and T-13117), 1:15,000 scale color photographs were available. T-13218 (1:5,000 scale) was compiled at 1:10,000 scale on the B-8 stereoplotter from 1:40,000 scale photography and then enlarged to 1:5,000 for a hydro support manuscript. This manuscript is thus considered somewhat substandard in accuracy. All compilation was achieved on the B-8 stereoplotter.

Field edit operations were begun in November 1967 and were completed in 1968. To resolve some landmark and aid problems, provide hydro support, and to further clarify differences in compiled features for Marine Charts, additional field work was accomplished in February 1969. Field edit operations required the location of most of the daybeacons throughout the project area and verification of compiled features.

The application of field edit corrections and/or additions was accomplished in the Washington compilation office as received from the field with some interruption for higher priority projects. Field edit application and final review was completed in November 1969. As field edit corrections were applied to each T-sheet and checked for completeness, a cronaflex copy was ordered for the Marine Chart Division. Hydro verification was being accomplished at the same time of final review and close liaison was maintained between sections.

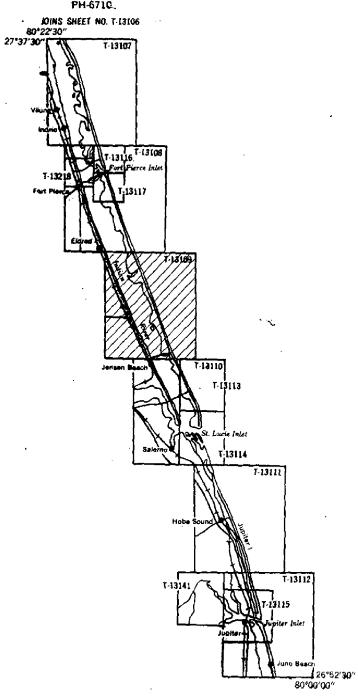
A Registration Manuscript Copy will be registered in the Bureau Archives under their respective T-numbers.

Submitted by,

J. P. Battley, Jr.

Jeter P Battley Ir

INDEX TO ADJOINING SHEETS PH-671Q.



PHOTOGRAMMETRIC PLOT REPORT Job PH-6710 Cape Kennedy to Jupiter Inlet, Florida

October 27, 1967

21. Area Covered

This report covers the bridging of the Florida east coast from Cape Kennedy to Jupiter Inlet, Included in this area are T-sheets T-13100 thru T-13112 at 1:20,000 scale, T-13113 thru T-13115 and T-13141 at 1:10,000 scale and T-13116, T-13117 and T-13218 at 1:5,000 scale.

22. Method

Eight strips were bridged by stereoplanigraph methods and one strip (Strip #1) by STK methods. All were adjusted by the IBM 1620 method. Strip #1 (66-L(C)-8716 thru 8731) was bridged holding six stations as control and three stations plus tie points as checks. Strip #1-C (66-L(C)-8708 thru 8716) was adjusted holding five control stations with two stations as checks. Strip #2 (66-L-8822 thru 8832) was adjusted on four stations. Strip #3 (66-L(C)-8696 thru 8702) was adjusted on four stations with tie points as checks. Strip #4 (66-L(C)-8738 thru 8748) was adjusted on four stations with two stations and tie points as checks. Strip #5 (66-L(C)-8768 thru 8799) was adjusted on five stations with two stations and tie points as checks. Strip #6 (66-L(C)-8782 thru 8797) was adjusted on five control stations with tie points as checks. Strip #7 (66-L(C)-8773 thru 8779) was adjusted on three stations. Strip #8 (66-L(C)-8804 thru 8821) was adjusted on three stations with tie points as checks.

All plates were drilled by the PUG method. The points between strips were averaged.

23. Adequacy of Control

Horizontal control complied with project instructions. Most of the control stations were premarked with additional substations selected on color photos taken with a hand-held camera. These photos were used before the strip photography was available. Many of the images selected on the hand-held photographs could not be determined on the strip photography. In some cases the premarked stations could not be seen clearly in the strip photography.

Stations which could not be held within National Map Accuracy Standards and the probable reasons for the source of error are as follows:

STRIP #1

BET, 1967, SS "A" and SS "B" - Could not be clearly seen

on the 1:40,000 scale photography.

POLE (TEMP), BASE PT. "C", 1967, Panel, SS "A" and SS "B". The positions of this station and its substations were determined by a short baseline method. With the small angle involved and the evidence of bridging residuals, this station was treated as a passpoint between Strips #1 and #8.

PIERCE 2, 1963 - Only the 1:40,000 scale target was considered as a good point in Strip #1. All other substations

were dropped from the adjustment.

STRIP #2

RADAR, 1955, SS A was a very poor image point on this strip and was dropped from the adjustment.

STRIP_#5

VALKARIA, 1960 (Target) and TURKEY CREEK, 1877 (Target) gave large residuals in the adjustment phase and were dropped. The substations for these stations were used in place of the targets and showed good residuals in the adjustment.

STRIP #6

TRIPOD 3, 1963, SS "A" - No reason could be determined for this substation not holding in the adjustment. It was dropped from the bridge.

STRIP #7

ARTESIA, 1953, SS "A" - No reason could be determined for the error in this station. Since two companion points held, the substation was dropped.

STRIP #8

#1. POLE (TEMP), BASE PT. "C", 1967 - See note under Strip

24. Supplemental Data

Local USGS quads were used for elevations during bridging operations.

25. Photography

Photography was adequate as to coverage, overlap, definition and quality.

Submitted by:

Approved by:

=1-13114

Compilation Report Project PH-6710 T-13109 May 1967

31. Delineation

This manuscript was compiled at a scale of 1:20,000 on the B-8 stereoplotter using 1:40,000 color plates. Infrared photographs ratioed to manuscript scale were used for a graphic refinement of the MHWL.

Points were positioned along the shoreline to facilitate hydrographic signal location and cronapaque ratio prints of the photography were resected to the manuscript in the standard manner for photo hydro support.

This manuscript was also delineated according to Marine Chart specifications to provide a new base for Chart 845-SC.

32. Control

Identification, density and placement of control was adequate.

33. Supplemental Data

Small-craft chart 845-SC at 1:40,000 scale dated August 1966 was used as an aid in locating Lts. Daybeacons, and landmarks in the area. Geological Survey Quads., Ankona, Florida, and Eden, Florida, each dated 1950 and at a scale of 1:24,000 were used for the Geographic Names Standard.

34. Contours and Drainage

Inapplicable.

35. Shoreline and Alongshore Details

Delineation of the shoreline and alongshore details was accomplished by office interpretation of the photographs.

36. Offshore Details

No comment.

37. Landmarks and Aids

Eighteen aids to navigation were located on this sheet. No landmarks were evident.

38. Control for Future Surveys

No comment.

39. Junctions

Junction has been made and is in agreement to the North with T-13108 and to the South with T-13110 (1:20,000) and T-13113 (1:10,000).

40. Horizontal and Vertical Accuracy

No comment.

41.-45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with Geological Survey Quads., Ankona, Florida, and Eden, Florida, each dated 1950 and at a scale of 1:24,000.

47. Comparison with Nautical Charts

Comparison has been made with nautical charts #1247, scale 1:80,000, revised to 3-6-67 also 845-SC, scale 1:40,000, dated August 20, 1966.

Submitted by,

R. A. Youngblood

Approved by,

K. N. Maki

Chief, Compilation Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6710 (Cape Kennedy to Jupiter Inlet)

T-13109

Ankona

Atlantic Ocean

Big Mud Creek

Blind Creek

Eden

Henderson Pond

Herman Bay

Hutchinson Island

Indian River

Intracoastal Waterway

Jensen Beach

Lake Eden

Nettles Island

The Savannahs

Walton

Approved by:

A. J. Wraight / Chief Geographer

Prepared b

Frank W. Pickert Cartographic Technician

FIELD EDIT REPORT

JOB PH-6710

MAPS T-13106 thru T-13109

In accordance with Instructions - Field Edit - Job PH-6710; Chart Topography, Cape Kennedy to Jupiter Inlet, Fla. (1413)

51. METHODS

The mean high-water line along the ocean front was verified by visual inspection and measured distance from the folage line, at approximately one mile intervals, the measurement being recorded on the Color transparencies.

Compiled shoreline along the Indian River was visually verified from a small boat. Requests for corrections, additions and deletions are indicated on a cronaflex copy of the manuscript, labeled PLANE TABLE SHEET with reference to the photograph by number on which the information is shown.

Streets and roads were travelled to verify existence and classification.

No landmark building, other than those mapped were noted during field edit.

Landmarks and aids to navigation for the most part were verified by Plane table, those not verified by Plane table were close to shore, and were verified by visual inspection. Aids located by Plane table have been circled on the PLANE TABLE SHEET in violet ink, and identified by their respective number. The plotted positions have not been scaled. Form 567 is submitted for only those aids located by Plane table and those that are identified on the photographs (transparencies). Form 567 is submitted for all landmarks.

Additions, deletions and corrections have been noted on the Cronaflex for each map labelled PLANE TABLE SHEET with crossreferencing to the photographs.

Violet ink was used for all field edit nows.

52. ADEQUACY OF COMPILATION

After application of field edit corrections, additions and deletions, compilation will be adequate for Chart Topography.

53. MAP ACCURACY

A large number of daybeacons, piling and piers were located by ground survey methods (Plane table). During location, Compiled objects such as lights, pier ends, tanks, etc., were used as or to determin Plane table positions, thus providing a test of the features used to be accurate.

54. RECOMMENDATIONS

None offered.

55. EXAMINATION OF PROOF COPY

Not required.

submitted 5/15/68
Robert S. Tibbetts

Review Report T-13109 Shoreline Mapping March 1970

61. General Statement

(See Summary)

62. Comparison with Registered Topographic Surveys

Comparison was made with surveys T-8846 and T-8847, scale 1:20,000, compiled from aerial photographs of April, 1946. These surveys are superseded for nautical charting and shoreline mapping by the new survey.

63. Comparison with Maps of Other Agencies

See paragraph 46 of Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys

T-13109 was used as a base for new hydrography. The new hydrographic surveys H-8957 and H-8958, scale 1:20,000 dated 1967 were used for comparison.

65. Comparison with Nautical Charts

Comparison was made with Chart 1247, 4th Edition, scale 1:80,000, dated Feb. 17, 1969, and 845-SC, scale 1:40,000 8th Edition, dated August 30, 1969. All differences noted on the discrepancy print between the published charts and the new survey were resolved in field edit. The discrepancy print was prepared in 1968 and was compared with the latest editions of the above charts at that time. T-13109 was used as a base in updating chart 1247 and 845-SC.

66. Adequacy of Results and Future Surveys

T-13109 complies with the project instructions and is within the National Standards of Accuracy.

Reviewed by, Veter P. Battley Ir

Approved by,

Photogrammetry Division

Chief, Marine Chart Division

Photogram netric Branch

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC STATEMENT OF SCRIPTIVE REPORT CONTROL RECORD

ORM 164 4-23-54)

COMM- DC- 57843 DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD SCALE FACTOR (BACK) N.A. 1927 - DATUM DATE. FORWARD SCALE OF MAP 1.20,000 DATUM OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) CHECKED BY. FORWARD 1,061,586,78 LONGITUDE OR x-COORDINATE LATITUDE OR W-COORDINATE 1,065,078.59 1,092,345.3, 735,447.97 749.066.60 759,748.35 ,079,137.74 741,096.51 MAP T. 13/09 PROJECT NO. 6710 DATE DATUM 1527 1927 1927 1261 NA 4.4 3 22 SOURCE OF INFORMATION (INDEX) 7 K 150 (y) V A 2 25/2 CEMETERY 1906 ERHART, 1930 WALTON, 1930 UEN2, 1934 1 FT.= .3048006 METER STATION COMPUTED BY:. 13109

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NONFLOATING AIDS ORXLANDMARKS FOR CHARTS

STRIKE OUT TWO

TO BE CHARTED XXXXBX REVISED X

Μď Rockville

1968 54 Oct.

I recommend that the following objects which have (hanksand) been inspected from seaward to determine their value as landmarks be charted on xaetexatxtroan)xthe charts indicated. XXXX BE DECEPTEDX

Youngblood 4 щ The positions given have been checked after listing by

Ralph Sobleralski >

Party.

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845-SC CHARTS AFFECTED <u>:</u> = = = = = DATENOUS CHART × × MSHORE CKART × × THAND ROSSAM 89 LOCATION 89 DATE ō = Ø = = Ξ = = Ξ = = = LOCATION AND BURVEY No. T-13109 Table METHOD Table Photo Pho to Plane lable Plane Pho to Tane Plane Plot Plot rabl Plot = = Ξ = 1927 DATUM = = = Ξ = = = 588.4 280.4 755.8 03.3 90.7 48.6 38.0 1495.8 80 14 1168.6 ь. О 1418.0 D. P. MEYERS 1052 398. LONGITUDE * 15 7 74 15 15 16 16 16 16 16 16 POSITION 80 80 80 80 80 80 8 80 80 80 င္တ 578.9 03.0 CJ. 812.6 917.2 683.6 $\frac{06.8}{}$ D. M. METERS 554.(00 504. 209 50 LATITUDE 27 18 20 19 18 19 20 20 18 22 27 2 21 • 27 27 27 • 27 27 27 27 27 22 27 27 BIGNAL (South Section Inlet Lucie Intracoastal Waterway DESCRIPTION Gallie-St. Indian River = = = = = = = = = "**=** = = Florida Eau Dybn 210 Dybn 212 Dybn 208 209 200 202 Dybn 205 **Dybn** 206 207 Dybn 211 **Dybn 203** Dybn 201 CHARTING Lt Dybn STATE Ľt Dybn

The data should be Positions of charted 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. landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

USCOMM-DC 36485-P66



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NONFLOATING AIDS ORXEANDIMERKSXFOR CHARTS

STRIKE OUT TWO XTOXBEX DELYETED X TO BE CHARTED XTOXBEXEDX

Rockville, Md

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

Youngblood R. A. The positions given have been checked after listing by

Ralph Sobieralski

CHARTS 845-sc Chief of Party. = = = = Ξ OFFHORE CHART TRAND BRONZE TRAND ROSEAN OF LOCATION 89/9/ 3/8/68 DATE = = = α METHOD OF LOCATION AND BURVEY No. T-13109 Table Table Plane Plane Pho to Plot = = = 1927 DATUM = = = = 26.0 15.0 16.8 02.0 979.2 D. P. METERS 462.1 657 397 LONGITUDE POSITION 80 13 80 80 8 80 80 0.890 38.2 744.8 D. M. METERS 387.7 30.7 LATITUDE* 16 16 16 17 17 15 -27 • 27 27 27 27 27 BIGNAL (South Section Lucie Inlet Intracoastal Waterway DESCRIPTION Eau Gallie-St. Indian River Ξ Ξ = = = = Florida Dybn 216 CHARTING **Dybn** 213 Lt 214 Dybn 215 Dybn 217 **Dybn 218** STATE

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 The data should be landmarks and nonticating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charrs of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review

CHART	DATE	CARTOGRAPHER	REMARKS
1247	1-14-72	Mon	Full Pass Before After Verification Review Inspection Signed Via
			Drawing No.
1110	11-6-01	CR 1	Full Part Before After Verification Review Inspection Signed Via
1247	17-18-19	E. Bodovense	
			Drawing No. A Consider adequately applied Superseded by TPOO157-1
			Full Part Before After Verification Review Inspection Signed Via
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63