# DESCRIPTIVE REPORT

**Map No.**
TP-01401

**Edition No.**
1

**Job No.**
CM-8306

**Map Classification**
CLASS III FINAL

**Type of Survey**
SHORELINE

## LOCALITY

**State**
SOUTH CAROLINA - GEORGIA

**General Locality**
ST HELENA SOUND TO SAVANNAH RIVER

**Locality**
CHISOLM ISLANDS

**DATE**
1987 TO 19

REGISTERED IN ARCHIVES
## Descriptive Report - Data Record

### Photogrammetric Office
Coastal Mapping Unit, Atlantic Marine Center
Norfolk, VA

**Officer-in-Charge**
C. Dale North, Jr., CDR

### I. Instructions Dated

<table>
<thead>
<tr>
<th>1. Office</th>
<th>2. Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation Compilation</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>July 18, 1988</td>
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</tbody>
</table>

### II. Datums

<table>
<thead>
<tr>
<th>1. Horizontal:</th>
<th>1983 NAD27 North American</th>
<th>Other (Specify)</th>
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</thead>
<tbody>
<tr>
<td>2. Vertical:</td>
<td>Mean High-Water</td>
<td>Other (Specify)</td>
</tr>
<tr>
<td>3. Map Projection</td>
<td>Lambert Conformal Projection</td>
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### III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Method</th>
<th>Landsmen and Aids</th>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>2. Control and Bridge Points Method: Kongsberg Plotter</td>
<td>PLOTTED BY</td>
<td>L. Harrod</td>
<td>March 1988</td>
<td></td>
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<tr>
<td></td>
<td>CHECKED BY</td>
<td>F. Mauldin</td>
<td>July 1988</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CHECKED BY</td>
<td>F. Mauldin</td>
<td>Aug 1988</td>
<td></td>
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<tr>
<td>5. Office Inspection Prior to Final Review</td>
<td></td>
<td>L. Harrod</td>
<td>Dec 1988</td>
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<tr>
<td>6. Application of Field Edit Data</td>
<td></td>
<td>L. Harrod</td>
<td>Dec 1988</td>
<td></td>
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<tr>
<td>7. Compilation Section Review</td>
<td>Class III</td>
<td>L. Harrod</td>
<td>Dec 1988</td>
<td></td>
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<tr>
<td>10. Data Examined in Photogrammetric Branch</td>
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<td>L. Harrod</td>
<td>Dec 1988</td>
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<td>11. Map Registered - Coastal Survey Section</td>
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<td>L. Harrod</td>
<td>Dec 1988</td>
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**U.S. G.P.O. 1972-789382/582 REG. #6**
1. COMPILATION PHOTOGRAPHY

<table>
<thead>
<tr>
<th>NUMBER AND TYPE</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>87B(C)3754-3757</td>
<td>2-10-87</td>
<td>1030</td>
<td>1:50,000</td>
<td>4.2 ft above MLLW</td>
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<tr>
<td>87B(C)3786-3788</td>
<td>2-10-87</td>
<td>1250</td>
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<td>0.7 ft above MLLW</td>
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<tr>
<td>87Z(R)0397,0399</td>
<td>2-12-87</td>
<td>1440</td>
<td>1:50,000</td>
<td>0.0 ft above MLLW</td>
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<tr>
<td>87Z(R)0485,0487</td>
<td>2-13-87</td>
<td>1440</td>
<td>1:50,000</td>
<td>0.6 ft above MLLW</td>
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<tr>
<td>87Z(R)0727-0729</td>
<td>3-3-87</td>
<td>1055</td>
<td>1:50,000</td>
<td>0.3 ft above MHW</td>
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<tr>
<td>87Z(R)0755-0756</td>
<td>3-3-87</td>
<td>1112</td>
<td>1:50,000</td>
<td>0.3 ft above MHW</td>
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<tr>
<td>87Z(R)0774-0775</td>
<td>3-3-87</td>
<td>1150</td>
<td>1:50,000</td>
<td>0.1 ft above MHW</td>
</tr>
</tbody>
</table>

REMIX: Mean Tide Range 6.9 ft

* Compilation/bridging photographs are based on predicted tide data.

** Tide coordinated MHW and MLLW photographs are based on actual tide data are now.

2. SOURCE OF MEAN HIGH-WATER LINE: referenced to the tide station at Savannah Bar Pilots Dock.

The Mean High Water Line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods.

The black and white infrared/contour photographs were used to assist in the interpretation of the Mean High Water Line.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The Mean Lower Low Water Line was compiled graphically from the above listed black and white infrared ratio photographs.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

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<thead>
<tr>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
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</thead>
<tbody>
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5. FINAL JUNCTIONS

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<th>EAST</th>
<th>SOUTH</th>
<th>WEST</th>
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<tr>
<td>None</td>
<td>TP-01402</td>
<td>TP-01404, TP-01405</td>
<td>TP-01400</td>
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REMARKS
### HISTORY OF FIELD OPERATIONS

#### I. FIELD INSPECTION OPERATION

<table>
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<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>P. Walbolt</td>
<td>Jan 1987</td>
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<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>P. Walbolt</td>
<td>Jan 1987</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>P. Walbolt</td>
<td>Jan 1987</td>
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<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td></td>
<td></td>
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</table>

#### II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED  
   **paneled**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
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<tbody>
<tr>
<td>87B(C) 3757</td>
<td>CHISOLM, 1932</td>
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2. VERTICAL CONTROL IDENTIFIED  
   **None**

#### III. SUPPLEMENTAL MAPS AND PLANS

None

#### IV. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodey Division)

1. Form 75-82A
2. Form 76-53
### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remark</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tr>
<td>Compilation Complete</td>
<td>August 88</td>
<td>Class III Manuscript</td>
<td></td>
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<td>Final Review</td>
<td>April 89</td>
<td>Final Class III Map</td>
<td>Dec. 1912</td>
<td>Dec. 1919</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

1. **REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

<table>
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<th>Number Pages</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>Dec. 1947</td>
<td>Landmarks and Aids to Navigation Form</td>
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2. □ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 

3. □ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 

### III. FEDERAL RECORDS CENTER DATA

1. □ BRIDGING PHOTOGRAPHS; □ DUPLICATE BRIDGING REPORT; □ COMPUTER READOUTS.
2. □ CONTROL STATION IDENTIFICATION CARDS; □ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. □ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. □ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 

### IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
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<td>TP. (2)</td>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td>□ REVISIRED □ RESURVEY</td>
<td>□ II. □ III. □ IV. □ V. □ FINAL</td>
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<table>
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<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
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<td>TP. (3)</td>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td>□ REVISIRED □ RESURVEY</td>
<td>□ II. □ III. □ IV. □ V. □ FINAL</td>
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<th>Job Number</th>
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<th>Map Class</th>
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<td>TP. (4)</td>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td>□ REVISIRED □ RESURVEY</td>
<td>□ II. □ III. □ IV. □ V. □ FINAL</td>
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</table>
This 1:20,000 scale map is one of eleven maps in Project CM-8506, which extends from St. Helena Sound, South Carolina southwest including Savannah River, Georgia. The project extends from latitude 32° 00' 00" north to latitude 32° 40' 00" and longitude 80° 23' 00" west to longitude 81° 00' 00".

Field work prior to compilation was accomplished during January 1987. It consisted of premarking horizontal control stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in February 1987 using color film with the "B" camera (focal length 152.74 millimeters). Black and white infrared photography was taken in February and March 1987 using the Z camera (focal length 153.15 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in March 1988.

Compilation was performed at the Atlantic Marine Center in August 1988 by office interpretation of the 1:50,000 color and the infrared Mean High Water and Mean Lower Low Water photography.

Final Review was accomplished at the Atlantic Marine Center in April 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map. The original base manuscript and all pertinent data were forwarded to the Washington Science Center for registration.
AEROTRIANGULATION REPORT
CM-8506
ST. HELENA SOUND TO SAVANNAH RIVER
March, 1988

21. AREA COVERED

The project covers the shoreline, islands, and the adjacent waterways from St. Helena Sound in South Carolina to Savannah River in Georgia. There are eleven 1:20,000 scale sheets: TP-01400 through TP-01410.

22. METHOD

Seven strips of 1:50,000 scale color photographs were bridged by analytic aerotriangulation methods and adjusted to ground using the GIANT program. The strips were measured on the National Ocean Service Analytical Plotter (NOSAP). The horizontal control was pre-marked.

Ratio values were determined for the 1:50,000 scale color photographs and for the 1:50,000 scale black and white infrared photographs.

Work manuscripts and manuscripts for the final map were plotted on the Kongsberg plotter. The sheets were plotted in the South Carolina state plane coordinate system. This is a Lambert conformal conic projection. All positions are on the NAD 1983.
In addition, 10 mm ticks representing NAD 27 projection intersections were plotted at twice the interval of the NAD 83 projections.

23. ADEQUACY OF CONTROL

The project meets the National Ocean Service requirements for map manuscripts. Tie points were used to ensure an adequate fit between strips. A listing of the fit to control is attached.

24. SUPPLEMENTAL DATA

U.S.G.S. topographic quadrangles were used to obtain vertical control for bridging. NOS nautical charts were used to locate fixed aids to navigation and landmarks.
25. **PHOTOGRAPHY**

The photography was adequate.

Submitted by,

Lloyd W. Harrod, Jr.

Approved and Forwarded

Don O. Norman
Chief, Aerotriangulation Unit
31. **DELINEATION:**

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument and graphic compilation were used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs and the tide coordinated mean high water infrared contact photographs.

Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line. Control for all graphic delineation was provided by instrument compilation of coastal detail.

All photographs used to compile this map are listed on NOAA form 76-36B. The northwest corner of this map, between 32° 35.0' and 32° 37.5' latitude and 80° 39.0' and 80° 42.0' longitude, was delineated to the limit of available photographic coverage. The photography was adequate.

32. **CONTROL:**

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 1988.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

The mean high water line was compiled from office interpretation of the 1:50,000 scale bridging/compilation color photographs and was complimented by the tide coordinated mean high water infrared contact photographs.
36. **OFFSHORE DETAILS:**

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs.

The tide coordinated mean lower low water infrared ratio photographs were used to compile the approximate mean lower low water line as described in item #31.

37. **LANDMARKS AND AIDS:**

Within the limits of this map, seven charted aids to navigation and no charted landmarks were located/verified photogrammetrically.

38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

See item #32.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison was made with the following U.S. Geological Survey Quadrangle:

Green Pond, South Carolina; 4849 II, V746, edition 6; scale 1:50,000

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with the following National Ocean Service charts:

11480; 27th edition; dated July 5, 1986; scale 1:449,659
11513; 18th edition; dated December 6, 1986; scale 1:80,000
11518; 23rd edition; dated June 27, 1987; scale 1:40,000
11519; 8th edition; dated July 12, 1986; scale 1:40,000
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Paul L. Evans, Jr.
Cartographic Technician
July 26, 1988

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Unit
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8506 (St. Helena Sound to Savannah River, SC-GA)

TP-01401

Ballast Island
Barnwell Creek
Briars
Briars Creek
Brickyard Creek
Brickyard Point
Browns Island
Bull River
Bull Spit
Buzzard Island
Chisolm
Chisolm Islands
Combahee River
Coosaw River
Dale
Fields Point
Fish Creek
Gunboat Island
Halfmoon Island

Horse Island
Jack Island
Keans Neck
Ladies Island
McCalleys Creek
Mulligan Creek
Oak Island
Old Combahee Island
Paukie Island
Port Royal Island
Schooner Channel
South Wimbee Creek
Stewarts Point
Summerhouse Point
True Blue Creek
Whale Branch
Willman Creek
Willman Islands
Wimbee Creek

Approved:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services
61. GENERAL STATEMENT

See Summary included with this Descriptive Report.

No enlargement prints were supplied of the Mean High Water infrared photographs.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following USGS quadrangle:

GREEN POND, SOUTH CAROLINA, 484911, V746, 6th edition

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS charts:

11513, 18th edition, dated December 6, 1986, scale 1:80,000
66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:
Lowell O. Neterer, Jr.
Final Reviewer
April 1989

Approved for Forwarding:
Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:
N/A
Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch
CARTOGRAPHIC FEATURES OF CHARTING INTEREST

PROJECT: CM-8502

MAP NUMBER (Scale); Locality: TP-01401; 1:20,000; St. Helena Sound to Savannah River

GEODETIC DATUM: N.A. 1983

CHARTS Affected: 11480, 11513, 11518, 11519

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

<table>
<thead>
<tr>
<th>FEATURE DESCRIPTION</th>
<th>NCD</th>
<th>GEOGRAPHIC POSITION - '-&quot;'</th>
<th>NCD</th>
<th>DATE OF LOCATION</th>
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<tbody>
<tr>
<td></td>
<td>CC</td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>Q.C.</td>
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<tr>
<td>COOSAW RIVER</td>
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<td>LIGHT 191</td>
<td>200</td>
<td>32 30 00.09</td>
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<tr>
<td>RANGE A FRONT LIGHT</td>
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<td>RANGE A REAR LIGHT</td>
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<td>80 40 56.12</td>
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Listing approved by:  

[Signature]  
FINAL REVIEWER  

[Signature]  
DATE: May 1985
**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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
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<td></td>
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<td></td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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