TP-00881

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline Job No CM-7403 Map No. TP-0 Classification No. III Edition No	0881
LOCALITY State New York General Locality Hudson River Locality Harlem River	
19 75 TO 19	
DATE	* · · · · · · · · · · · · · · · · · · ·

★ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-778

NOAA FORM 76-36A (3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	rp- <u>00881</u>	
(3-72)	OCCANIC AND AIMOSPHERIC ADMIN.	XX ORIGINAL	MAPEDITI	ON NO. ()	
DESCRIPTIVE DES	PORT - DATA RECORD	RESURVEY	MAP CLASS	. T TT	
DESCRIPTIVE REI	ORI - DATA RECURD		-	XX CM - 7403	
PHOTOGRAMMETRIC OFFICE		REVISÉD	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Cartometric Section	٦n	LAST PRECEEL			
Rockville, Marylan		TYPE OF SURVEY ORIGINAL	l	PH 3	
OFFICER-IN-CHARGE		RESURVEY	SURVEY D		
Commander James Co	alline	REVIS ED	19TO 19		
I. INSTRUCTIONS DATED		,	·	•••	
	OFFICE	2.	FIELD		
Aerotriangulation	Sept. 3, 1975	April 2, 1975			
Compilation Octobe	er 21, 1975	April 15, 1975	Supple:	ment I	
	•			_	
i					
			<u> </u>		
II. DATUMS		OTHER (Specify)			
1. HORIZONTAL:	X 1927 NORTH AMERICAN				
	MEAN HIGH-WATER	OTHER (Specify)			
2. VERTICAL:	MEAN LOW-WATER				
	MEAN LOWER LOW-WATER MEAN SEA LEVEL				
3. MAP PROJECTION		4.	GRID(S)		
 		STATE	ZONE		
Transverse Mercato) L	New York East			
5. SCALE 1:10,000		STATE	ZONE		
III. HISTORY OF OFFICE OPER	ATIONS		<u> </u>		
OPE	ERATIONS	NAME		DATE	
1. AEROTRIANGULATION	BY	Don O. Norman		10/75	
METHOD: Analytic 2. CONTROL AND BRIDGE POIN		Lloyd Harrod		3/76	
METHOD: Coradi	ITS PLOTTED BY CHECKED BY	Broya Marroa		37.10	
3. STEREOSCOPIC INSTRUMENT	T PLANIMETRY BY	J. McNamara		4/76	
COMPLATION	CHECKED BY	J. Massey		4/76	
INSTRUMENT: Wild B-8	Stereoplotterrours by	N/A	<u> </u>		
scale: 1:1,400 4. MANUSCRIPT DELINEATION	CHECKED BY PLANIMETRY BY	N/A J. McNamara		6/76	
- BELLINGS ION	CHECKED BY	J. Massey		6/76	
METHODIT n 1 - 1 C		N/A			
mainouthked from	B-8 worksheethecked by	N/A			
scale: 1:10,000	HYDRO SUPPORT DATA BY	N/A N/A			
5. OFFICE INSPECTION PRIOR	TO FIELD EDIT BY	M/ A			
6. APPLICATION OF FIELD ED	IT DATA	Field edit pos	tponed	11 /76	
7. COMPILATION SECTION REV	TEW BY				
8. FINAL REVIEW	ВУ	J. B. Phillips		4/77	
9. DATA FORWARDED TO PHOT	TOGRAMMETRIC BRANCH BY				
10. DATA EXAMINED IN PHOTOC					
11. MAP REGISTERED - COASTA		P.T. Cator		10/22	

U. S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

TP-00881

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY	,]
CAMERA(S) C=88.47mm E-152.	71mm		PHOTOGRAPHY GEND	TIME REFERI	ENCE
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECOR TIDE CONTROLLED PHOTOGR		(C) COLOR (P) PANCHRO		zone 5th Meridian 75th	∑ STANDARD
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF T	IDE
75E(C)9269-77	5/8/75	12:31	1:20,000	Harlem Rv. + Hudson Rv. +	1
75E(C)9227-30	5/8/75	11:52	1:20,000	Harlem Rv. + Hudson Rv. +	.8 ft. MI
75C(C)5842-44	5/8/75	9:53	1:60,000	Not applicab	
REMARKS	•				

1:60,000 used for bridging 1:20,000 used for compilation

2. SOURCE OF MEAN HIGH-WATER LINE:

Since there was no tide-coordinated infrared photography, the mean high water line was compiled from a combination of empirical observations and contouring on the analytical plotter.

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

There was no requirement for a mean low water line because it was impossible to determine on the color photography. In lieu of the low water line, shallow areas were outlined.

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

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY	USED
5. FINAL JUNCTIONS				<u> </u>		
NORTH	EAST		SOUTH	7	WEST	
ΓP-00865	No s	urvev	TP-00884		TP-00880	

REMARKS

			NATIONAL	OCEAN SUR
TP-00881	HISTORY OF FIELD	OPERATIONS		
X FIELD INSPECTION OF	PERATION Pre-mark FIEL	D EDIT OPERATION		
	OPERATION	1	IAME	DATE
CHIEF OF FIELD PARTY		R. S. Til	hitts	
	RECOVERED BY	3, 120	1	-
HORIZONTAL CONTROL	ESTABLISHED BY			
	PRE-MARKED OR IDENTIFIED BY			
	RECOVERED BY			
. VERTICAL CONTROL	ESTABL1\$HED BY			
	PRE-MARKED OR IDENTIFIED BY	<u> </u>		
. AUGUS BIZO AND	RECOVERED (Triangulation Stations) BY			
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY			
	TYPE OF INVESTIGATION			
CECCBADUIC NAMES	COMPLETE			
. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
, PHOTO INSPECTION	CLARIFICATION OF DETAILS BY		***	
BOUNDARIES AND LIMITS				
SOURCE DATA	13			
, HORIZONTAL CONTROL I	DENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None		None		
HOTO NUMBER	ST A TION NAME	PHOTO NUMBER	STATION DESIG	NATION
, PHOTO NUMBERS (Clarifi	cetion of details)			
None	······,			
LANDMARKS AND AIDS T	O NAVIGATION IDENTIFIED			
None				
None			APT.	
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT N	AME
GEOGRAPHIC NAMES		6 BOULD BY AN		
. GEOGRAPHIC NAMES: . SUPPLEMENTAL MAPS A	REPORT NONE	6. BOUNDARY AN	D LIMITS: REPORT	г Пиои
	····			
None				
ATHER FIELD RECORDS	(Sketch books, etc. DO NOT list data submi	tted to the Geodesy D	ivision)	
	· ·			

NOAA FORM 76-36D (3-72)

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

DECORD OF SHEVEY HEE

TP-00	881	KECON	OF SURVE	1 035		
I. MANUSCRIPT	COPIES					
	CON	PILATION STAGES	i		DATE MANUSCRI	PT FORWARDED
DATA	COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
Shorelin	e and inshore					
delineat	ion	June 197	Class I	II manuscr	ipt	
					 -	ļ
Review o						,
compilat	ion	Dec. 1976	Minor c	orrections		•
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	view prior		Field e	dit postpo	ned 10-3-77	ĺ
to regis	<u>tration</u>	April 197	<u>Class I</u>	II manuscr	ipt	
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					1	
II. LANDMARK	S AND AIDS TO NAVIGA	TION	<u> </u>			
	S TO MARINE CHART DI		DATA BRANCH			
	CHARTLETTER	DATE				
NUMBER	NUMBER ASSIGNED	FORWARDED				
/		9-26-77				
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2. REP	ORT TO MARINE CHART	DIVISION, COAST	PILOT BRANCH.	DATE FORWARD	EO:	
3. 🗌 REP	ORT TO AERONAUTICAL	L CHART DIVISION	AERONAUTICA	L DATA SECTION.	DATE FORWARDED:	
III. FEDERAL	RECORDS CENTER DAT	·A				
, VV		V —		VV		
_	DGING PHOTOGRAPHS; ITROL STATION IDENTI			ORT; XX COMPU		
	RCE DATA (except for G					,
ACC	COUNT FOR EXCEPTION	ls:				
4. DA	TA TO FEDERAL RECOF	RDS CENTER. DAT	E FORWARDED:			_
IV. SURVEY E	DITIONS (This section s		_	np edition is registe		
	SURVEY NUMBER	JOB NUMBE			TYPE OF SURVEY	SURVEY '
SECOND	DATE OF PHOTOGRAPH	(2) PH		-	MAP CLASS	SURVEY
EDITION			220 2011	l o.	11.	FINAL
	SURVEY NUMBER	JOB NUMBE	R	 	TYPE OF SURVEY	
THIRD	TP	_ (3) PH			REVISED RE	SURVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT	1	MAP CLASS	_
				<u> </u>	ii. □iv. □v.	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
FOURTH	TP		Pi p En'T	┨		SÜRVÉY
EDITION	DATE OF PROTOGRAPH	DATEOFFI	CLD EDIT		MAP CLASS	DEINA:

SUMMARY CM-7403

This summary covers the 1:10,000 scale portion of this project: TP-00864, TP-00865 and TP-00880 through TP-00885.

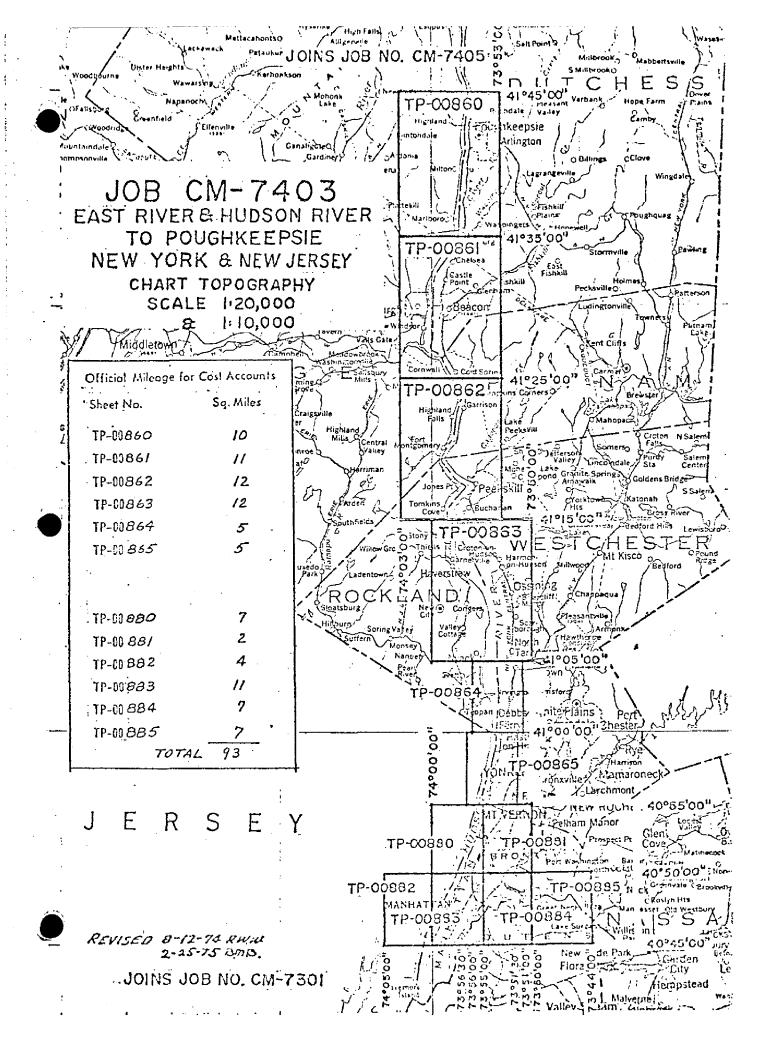
TP-0088/ is one of 12 shoreline maps in Job CM-7403 compiled for use in the maintenance of published nautical charts and in new chart construction.

Field work prior to compilation consisted of the recovery and premarking of horizontal control.

This manuscript was compiled using the Wild B-- stereo-plotter with 1:20,000 scale color photography. One annotated ozalid copy of this map and black-and-white ratioed positives of the photographs covering this area have been prepared for use by the field editor assigned. The original field edit assignment was postponed in November 1976.

Final review was done in the Rockville, Maryland, office April through July 1977.

A stable base positive copy of the map and a descriptive report will be registered in the NOS Archives.



Photogrammetric Plot Report
East River and Hudson River
to Poughkeepsie
New York
CM-7403
October 20, 1975

- 21. Area Covered: This report pertains to 8 sheets at 1:10,000 scale along the East River and Hudson River in the vicinity of Manhattan Island and also 4 sheets at 1:20,000 scale along the Hudson River to Poughkeepsie, New York. The sheets are TP-00880 thru TP-00885 and TP-00860 thru TP-00865.
- 22. Method: Three strips of 1:60,000 scale color photography were bridged by analytic aerotriangulation methods and adjusted to ground in the New York East Zone state plane coordinate system. In the area covered by 1:10,000 scale sheets, points were established for setting 1:20,000 scale color photography for compilation. Points were also established for determining ratios of all the 1:20,000 scale photography. T-sheets and ratios were ordered for compilation.
- 23. Adequacy of Control: The control was adequate.
- 24. Supplemental Data: U.S.G.S. Topographic quadrangles were used to determine elevations of points for strip adjustment.
- 25. Photography: The photography was adequate.

Submitted by,

Don O. Norman

Bon O. Horman

Approved by:

John D. Perrow, Jr.

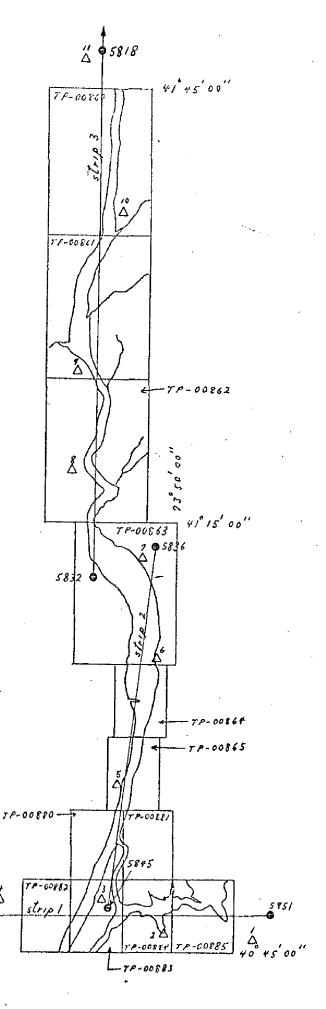
Chief, Aerotriangulation Section

```
Strip 1
     1 PAYNE 2, 1932 (-0.4, -0.4)
     2 SCHOOL, 1932 (+1.3, +1.0)
     3 INTER, 1932 (-1.1, -1.0)
     4 HILLSIDE, 1933 (+0.2, +0.4)
Strip 2
     3 INTER, 1933
                     (-0.7, -0.2)
     5 ALPINE, 1930
                     (+1.7, +0.8)
     6 KING, 1932
                     (-2.2, -1.0)
     7 LARKIN, 1932 (-1.8, -1.1)
Strip 3
     7. LARKIN, 1932 (+1.3, -1.4)
     8 BEAR MOUNTAIN, 1851 (+1.7, +2.1)
    9 BUTTER HILL, 1880 (-2.4, +1.2)
  10 ST. CLAIR 3, 1973 (-4.5, -4.4)
    11 WEST PARK HOLLY CROSS (+5.0, +3.1)
       MONASTARY CUPOLA, 1933
       BECK, 1934 (+0.7, -1.1)
       GREEN, 1934 (-1.8, +0.3)
```

AEROTRIANGULATION SKETCH
EAST RIVER & HUDSON RIVER
TO POUGHKEEPSIE
NEW YORK & NEW JERSEY
CM-7403
October, 1975

BRIDGING PHOTOGRAPHY

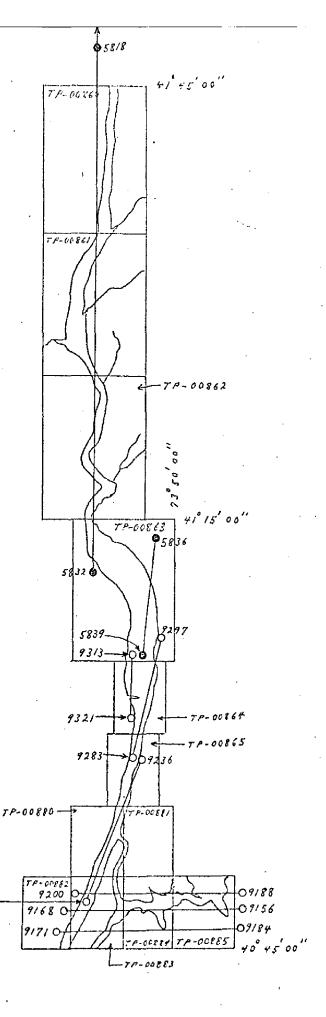
• 75C(c) 1:60000



AEROTRIANGULATION SKETCH EAST RIVER & HUDSON RIVER TO POUGHKEEPSIE NEW YORK & NEW JERSEY CM-7403 October, 1975

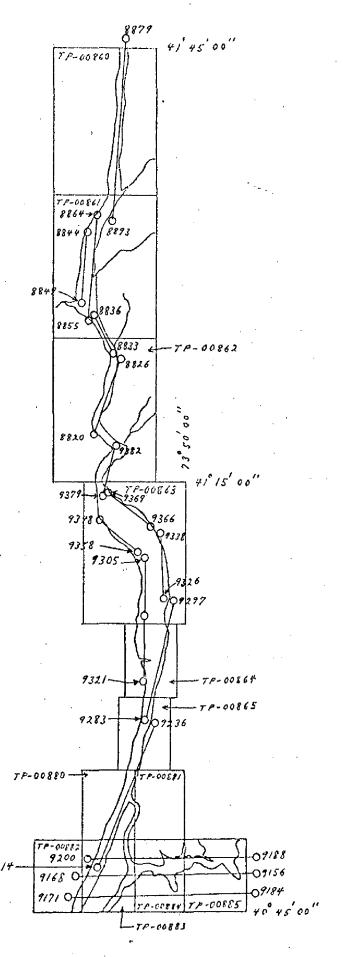
COMPILATION PHOTOGRAPHY

• 75C(c) 1:60000 • 75E(c) 1:20000



AEROTRIANGULATION SKETCH
EAST RIVER & HUDSON RIVER
TO POUGHKEEPSIE
NEW YORK & NEW JERSEY
CM-7403
October, 1975

RATIO PHOTOGRAPHY 075E(c) 1:20000



COMPILATION REPORT Shoreline Survey

TP-00881

This map and all maps in Job CM-7403, were compiled to provide shoreline for the construction of a new chart (scale 1:20,000), and for the maintenance of other nautical charts in the area.

Existing charts were checked for aids to navigation and USGS quadrangles for locations of hospitals.

On the Discrepancy Print we have noted any features in which there was doubt as to position or identification.

. 31. Delineation

The shoreline and alongshore features were compiled stereoscopically using 1:20,000 color photography. Interior features were compiled graphically from ratio prints made from the color photographs. The color transparencies were used for interpretation of these features. Control for the graphic compilation consisted of planimetric features compiled from stereomodels of the bridging and compilation photography.

32. Control

Horizontal control was adequate using identifiable triangulation stations and PUG holes drilled for that purpose.

Vertical control was determined from USGS quadrangles. This also was considered adequate.

33. Supplemental Data

None

34. Contours and Drainage

There is no requirement for contours on this project.

35. Shoreline and Alongshore Details

Mean high water line: In bulkheaded and similar areas there was no problem in depicting the mean high water line. In other areas it was established by interpreting what could be seen along the shore or extrapolating from the water level in the photos.

Once this was done the mean high water line was contoured on the level model. Where there was any question it was indicated on the Discrepancy Print. Mean low water line: Since no tide-coordinated photography was taken, and considering the uncertainty of water penetration, no attempt was made to depict the mean low water line. However, shallow areas that could be seen were shown on the manuscript.

36. Offshore Details

No problems were encountered.

37. Landmarks and Aids

See Forms 76-40

38. Control for Future Surveys

None

39. Junctions

Refer to attached Form 76-36B of the descriptive report or the index to adjoining sheets on the manuscript.

40. Horizontal and Vertical Accuracy

Refer to Plot Report.

- 41. thru. 45 Not applicable
- 46. Comparison with Existing Maps

Comparison was made with the 1:24,000 Central Park (1956-66) and Flushing (1955-66) USGS quad.

47. Comparison with Nautical Charts

Comparison was made with the following National Ocean Survey charts:

274(12342), 1:10,000, dated February 1973 282(12343), 1:40,000, dated November 1975

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by:

. McNamara,

Approved and Forwarded:

J) Gerlach

Chief, Cartometric Section

FINAL REVIEW REPORT CM-7403

Shoreline Survey TP-00881

61. General Statement

This map is registered as Class III. The field edit was postponed November 1976. Map detail is subject to changes pending a field edit inspection. Discrepancy prints and ratioed photographs are prepared and ready for field edit use.

- 62. thru 64. Inapplicable
- 65. Comparison with Nautical Charts

This map was compared with the following:

Chart 12342(274), 1:10,000 scale pub. February 1973 Chart 12345(747), 1:10,000 scale pub. March 1974

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

J. B. Phillips Cartographer

Approved and Forwarded:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

76-40 ISTING													SURVEY COMMERC				•••			VER	ATAB SION 0818
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FORM	C&	GS-8352
13-25-6	31	

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

TP-	0088
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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.

HART	DATE	CARTOGRAPHER	REMARKS
747	2-13-78	Hiroda	Full Part Below After Verification Review Inspection Signed Via
	7.		Drawing No. 16
-			Consider part appl until sheet is digitizes
274	4-13-19	DI Pollilos	Full Part Before After Verification Review Inspection Signed Via
<u> </u>		U.C. I. VO-MAIN	Drawing No. 20
,			Consider Topped until sheet is divined
282	4-20-10	DI Pattilar	Full Part Before After Verification Review Inspection Signed Via
	1. 31-17	PLI WWW	Drawing No. 7/
			Consider adorably applied until distilled
			Full Part Before After Verification Review Inspection Signed Via
		<u> </u>	Drawing No.
			,
			Full Part Before After Verification Review Inspection Signed Via
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			Drawing No.
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