

# 12493

RETURN TO J.E.

Diag. Cht. Nos. 1208-2 & 1209-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Chart 257

Field No. Ph-6102 Office No. T-12493

### LOCALITY

State Massachusetts

General locality Cape Cod

Locality Nantucket Sound - Chatham Roads

19 61-63

CHIEF OF PARTY

M.J. Tonkel, Baltimore Dist. Officer

LIBRARY & ARCHIVES

DATE May 1964

USCOMM-DC 5087

12493

DESCRIPTIVE REPORT - DATA RECORD

Chart (#257) T-12493

PROJECT NO. (II): Ph-6102		
FIELD OFFICE (II):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland		OFFICER-IN-CHARGE Commander Miller J. Tonkel
INSTRUCTIONS DATED (II), (III): May 10, 1961		
METHOD OF COMPILATION (III): Kelsh Plotter (Cape Cod) Monomoy Island (Graphic compilation using ) (stereoplanigraph points )		
MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000	
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): MLW 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):		
LAT.:	LONG.:	<input type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = x =	STATE	ZONE
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.		

(2)

DESCRIPTIVE REPORT - DATA RECORD

E-257 T 12493

FIELD INSPECTION BY (II):  Joseph K. Wilson		DATE:  August 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Infrared                      Photography at high water April 12, 1961, office interpretation		
PROJECTION AND GRIDS RULED BY (IV):  J. D. C.		DATE 8/4/61
PROJECTION AND GRIDS CHECKED BY (IV):  G. H. Everett		DATE 8/4/61
CONTROL PLOTTED BY (III):  J. D. McEvoy		DATE 11/15/62
CONTROL CHECKED BY (III):  D. M. Brant		DATE 11/15/62
<del>MAPS PLOTTED</del> STEREOSCOPIC CONTROL EXTENSION BY (III):  R. Fuechsel		DATE October 1961
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  J. D. McEvoy	DATE 8/8/62
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):  C. A. Lipscomb		DATE 2/21/63
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  R. Glaser		DATE 3/11/63
REMARKS:		

(3)

DESCRIPTIVE REPORT - DATA RECORD

257

CAMERA (KIND OR SOURCE) (III):

C&GS "L" and "S" Camera (6" focal length)

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
(Infrared)				
61-I-1609 thru 1612	4/12/61	1122	1:30,000	3.4
1613 " 1616	"	1124	"	3.0
1621 " 1623	"	1137	"	2.8
1662	"	1220	"	2.0
1664 thru 1666	"	1222	"	2.3
1681 " 1689	4/17/61	1200	1:15,000	3.4
(Color prints)				
61-S-6730, 6732 & 6733	"	0735	1:20,000	-0.6
6734 thru 6740	"	0735	"	-0.6
6786	"	0735	"	-0.0
6787 thru 6794	"	0755	"	-0.3
7634 " 7636	5/3/61	0705	1:15,000	+0.6
7637 " 7648	"	0706	"	-0.4
*				

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Boston **		9.5	11.0
SUBORDINATE STATION: Dennis Port		3.4	4.1
Chatham (inside)		3.6	4.2
SUBORDINATE STATION: State Harbor		3.9	4.7
Monomoy Point		3.7	4.3

WASHINGTON OFFICE REVIEW BY (IV): *Final* R. Glaser DATE: 11/14/63

PROOF EDIT BY (IV): DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 10 RECOVERED: 10 IDENTIFIED: 9

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:

\* 62 S 5589 thru 5597  
5599 " 5601  
3068 " 3069

\*\* TIDE-CONTROLLED PHOTOGRAPHY

(4)  
REVISION LOG

(#257)

COMPILATION RECORD	COMPLETION DATE	REMARKS
Advance Manuscript	March 15, 1963	<i>Superseded</i>
<i>Field Edit Applied</i>	<i>Oct. 10, 1963</i>	

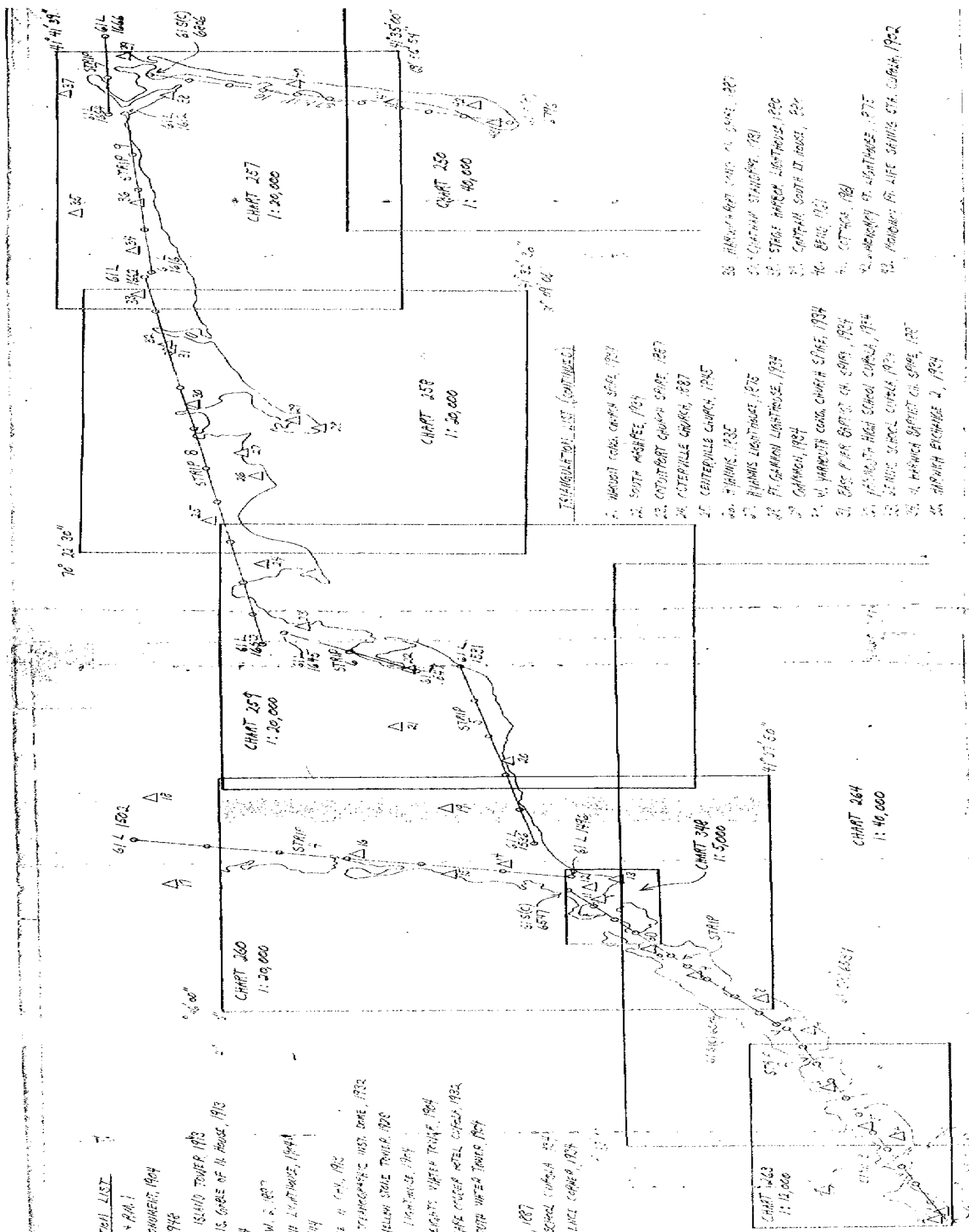
TRANGULATION LIST

1. EXTRA, 1948 + RA-1
2. COSMOS MONUMENT, 1904
3. PENITENCE, 1948
4. MASHAMENA ISLAND TOWER, 1913
5. MASHAMENA IS. CORNER OF N. HOUSE, 1913
6. PRASQUE, 1874
7. KINGDON S.W. C. 1887
8. TANTERHILL CORN. LIGHTHOUSE, 1844
9. HANUSON, 1874
10. FOSBERG HOUSE W. CORN. 1910
11. WEDGE HOLE TREATMENT PLANT. WINDY BAY, 1932
12. " " YELLOW STONE TOWER, 1904
13. MASSON B. LIGHTHOUSE, 1874
14. FALMOUTH BELGATE WATER TOWER, 1904
15. FALMOUTH CAPE CRUIER HOTEL CORNER, 1932
16. WEST FALMOUTH WATER TOWER, 1917
17. BARN, 1910
18. DEER HOLE, 1887
19. TREATMENT SCHOOL CORNER, 1932
20. BUNK W. FENCE CORNER, 1934

21. WINDY HOLE CORN. CHURCH SPINE, 1934
22. SOUTH WASHTEE, 1904
23. COUNTRY CHURCH SPINE, 1887
24. COTTERVILLE CHURCH, 1887
25. CENTERVILLE CHURCH, 1910
26. HANUS, 1932
27. HANUS LIGHTHOUSE, 1876
28. FT. GARRISON LIGHTHOUSE, 1934
29. GARRISON, 1904
30. W. WINDY HOLE CORN. CHURCH SPINE, 1934
31. BASS PIER BAPT. CH. SPINE, 1904
32. FALMOUTH HIGH SCHOOL CORNER, 1934
33. BUNK SCHOOL CORNER, 1934
34. HANUS CORNER CH. SPINE, 1932
35. AIRPORT EXCHANGE 2, 1934

TRANGULATION LIST (CONTINUED)

36. AIRPORT EXCHANGE 1, 1934
37. CANTON STAIRWAY, 1931
38. STEPS HANUS LIGHTHOUSE, 1900
39. CANTON SOUTH LT. HOUSE, 1910
40. BUNK, 1910
41. CANTON, 1904
42. WINDY HOLE PT. LIGHTHOUSE, 1876
43. WINDY HOLE LIFE SAVERS STA. CORNER, 1902



(6)

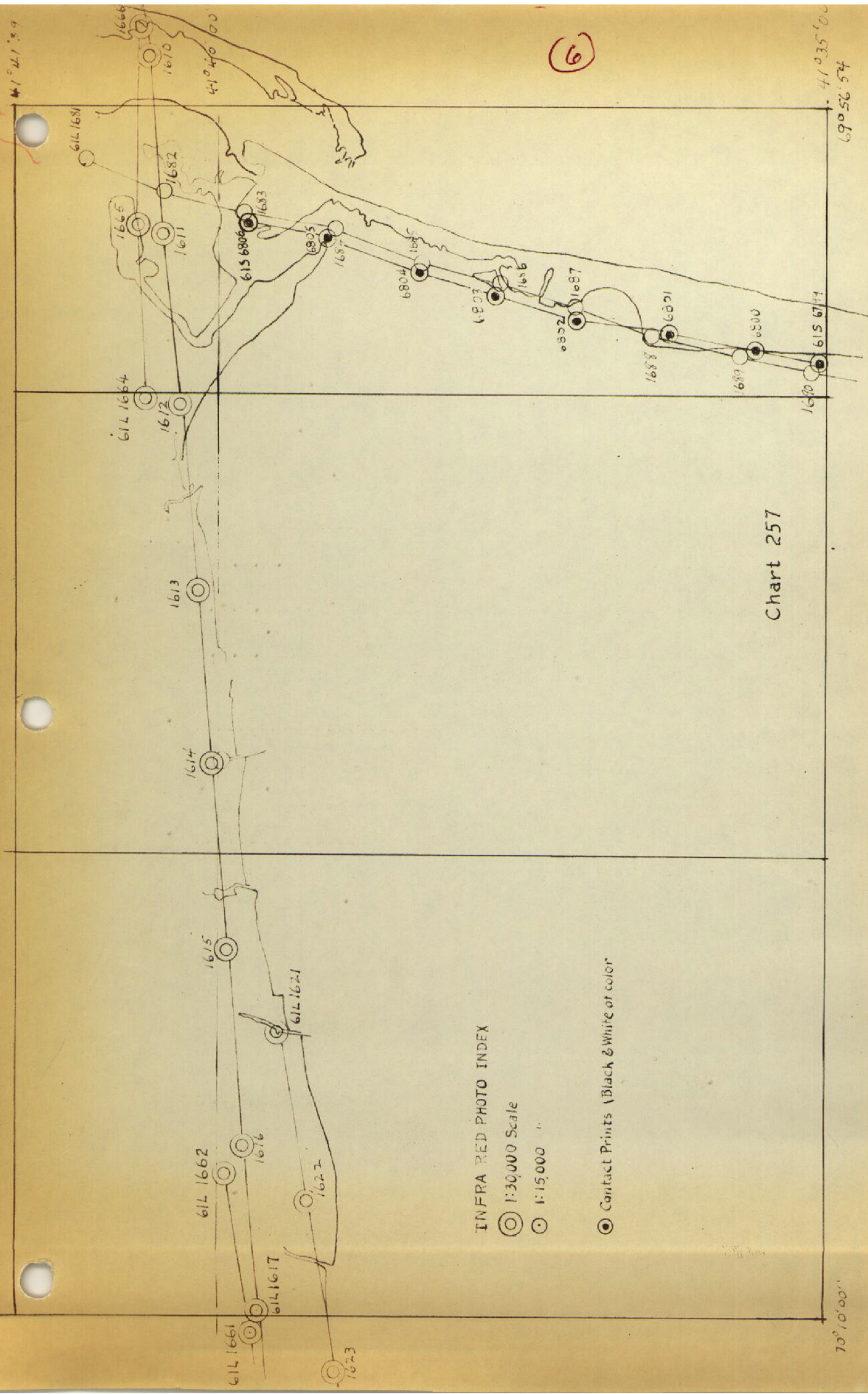


Chart 257

INFRA RED PHOTO INDEX

○ 1:30,000 Scale

○ 1:15,000 "

● Contact Prints (Black & White or color)

70° 10' 00"

41° 41' 39"

41° 35' 00"  
69° 56' 54"

Summary to Accompany Descriptive Report

T-12493  
(Chart 257)

Chart drawing 257 is one of ten new charts in Project 21038. It is the most northeasterly chart in the project and covers a portion of Nantucket Sound bordering Cape Cod from just west of Dennis Port to Chatham and includes the northern four miles of Monomoy Island. This is part of a pilot project wherein personnel of the Division of Photogrammetry produce topography for nautical charts by compiling to chart scale directly on Mercator projections ruled in the Nautical Charts Division. Compilation was by Kelsh Plotter in the Cape Cod area and graphically in the area of Monomoy Island. Field operations preceding compilation consisted only of photo-identification of horizontal control; after compilation, the map was field edited. The area is covered by infra-red "L" photography of April 1961, "S" photography in color of April and May 1961 and panchromatic "S" photography of March and April 1962. The chart drawing is on vinylite and covers 6 minutes 39 seconds in latitude and 13 minutes, 6 seconds in longitude. Hydrographic data will be added by the Nautical Chart Division and after further processing the chart will be published at a scale of 1:20,000. The registered copies under T-12493 will consist of a cronaflex film positive and a cronar film negative of the completed chart drawing.



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T. 257. PROJECT NO. 6102. SCALE OF MAP 1:20,000. SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)		FORWARD	(BACK)	
DENNIS SCHOOL CUPOLA, 1934	G.P. p. 146	N.A. 1927	41 40	5.914				91.3	( 834.3)	
WEST HARWICH BAPTIST CH. SP. 1887	p. 169A	"	70 09	11.809				136.6	( 557.4)	
HARWICH EXCHANGE 2, 1934	p. 127	"	41 40	12.391				191.2	( 734.4)	
HARWICH PORT CONG. CHURCH SPIRE, 1887	p. 147	"	70 07	02.707				31.3	( 662.7)	
CHATHAM STANDPIPE, 1931	p. 153	"	41 41	10.953				169.0	( 756.6)	
STAGE HARBOR LIGHTHOUSE 1880	p. 165	"	70 04	34.543				399.5	( 294.5)	
CHATHAM S. LIGHTHOUSE 1880	p. 135	"	41 40	2.777				42.9	( 882.7)	
BEND, 1961	G.P. Office Memo	"	70 04	36.645				423.9	( 270.2)	
COTTAGE, 1961	"	"	41 41	37.625				580.4	( 345.2)	
		"	69 58	31.673				366.2	( 327.6)	
		"	41 39	30.914				476.9	( 448.7)	
		"	69 59	03.227				37.4	( 656.6)	(80)
		"	41 40	16.672				257.2	( 668.4)	
		"	69 57	01.571				18.2	( 675.8)	
		"	41 37	04.672				72.1	( 853.5)	
		"	69 58	36.604				423.8	( 270.9)	
		"	41 35	04.049				62.5	( 863.1)	
		"	69 59	29.311				339.5	( 355.5)	

MAP T. 257. PROJECT NO. 6102. SCALE OF MAP 1:20,000. SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	
BEND Sub. Pt. No. 1	Clary Readout 86101	N.A. 1927	41 69	37 58	04.086 36.050			63.0 417.3	( 862.5) ( 277.3)	
BEND Sub. Pt. No. 2	86102	"	41 69	37 58	03.487 36.164			53.8 418.7	( 871.8) ( 276.0)	
COTTAGE Sub. Pt. No. 1	89101	"	41 69	35 59	07.518 29.978			116.0 347.2	( 809.6) ( 347.7)	
COTTAGE Sub. Pt. No. 2	89102	"	41 69	35 59	04.014 28.656			61.9 331.9	( 863.6) ( 363.0)	
										(9)

COMPILATION REPORT

Chart 257

No field inspection report was submitted.

The Photogrammetric Plot Report is bound with the Descriptive Report for Chart 348.

31. DELINEATION

The Kelsh Plotter was used for delineation of the Cape Cod area, using color prints in the vertical projector for small detail. Monomoy Island was compiled graphically, using the vertical projector holding the stereoplanigraph positions.

All delineation was done on a work sheet and then drafted on the chart manuscript.

32. CONTROL

Horizontal points from the stereoplanigraph bridging were adequate.

33. SUPPLEMENTAL DATA

The data used in the compilation is tabulated on the history form which is attached.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is complete.

35. SHORELINE AND ALONGSHORE DETAIL

All details were from office interpretation, using infrared photographs for high water, color prints for low water information and 1962 ratio prints were used for revisions.

The infrared and color prints were tide controlled. (See instructions dated May 10, 1961). Bluffs were delineated as recommended by the field party on annotated chart No. 1209.

36. OFFSHORE DETAILS

Color prints were used in the vertical projector for offshore details.

37. LANDMARKS AND AIDS

Landmarks and Aids were plotted either from triangulated positions or located photogrammetrically. Copies of Form 567 are attached.

38. CONTROL FOR FUTURE SURVEYS

Chart details are sufficient for future corrections or additions, using aerial photographs.

39. JUNCTIONS

Junction has been made with Chart 258, 1:20,000 scale and Chart 250, 1:40,000 scale, using the Vertical Projector.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S.G.S. Quadrangle Dennis, Massachusetts, 1:24,000 - 1940 revised 1949.

A.M.S. Sheet 6967 11 NE Harwich, Massachusetts, 1:25,000 - revised 1949, 2nd edition.

A.M.S. Sheet 7067 111 NW Chatham, Massachusetts, 1:25,000 - revised 1947 reprinted in 1948 with corrections.

47. COMPARISON WITH NAUTICAL CHARTS

C&GS Chart 257, scale 1:20,000 - 2nd edition September 1951, revised May 9, 1960.

48. GEOGRAPHIC NAMES

Geographic names have been omitted at the request of Mr. Everett of the Chart Division.

Respectfully submitted

*Joseph D. McEvoy*

Joseph D. McEvoy  
Carto. (Photo.)

Approved and forwarded

*Miller J. Tonkel*

Miller J. Tonkel  
Commander, USCGS  
Baltimore District Officer

11

*Handwritten notes:*  
632  
6320

FIELD EDIT REPORT  
Project PH-21038  
Chart 257  
Cape Cod, Massachusetts

GENERAL NOTES

The area was field-edited during the period 11 June through 10 July 1963. Corrections and additions have been inked on the photographs in black and referenced on the discrepancy print in blue.

NAUTICAL LANDMARKS & FIXED AIDS

All nautical landmarks and fixed aids to navigation were visually checked and verified. The dates of verification were noted on old form 567. One height (CHATHAM AIRPORT BEACON) was acquired and noted on old form 567.

LANDMARK BUILDINGS

Three landmark buildings, on MHWL, are recommended and noted on the discrepancy print and referenced to photographs.

BLUFFS

Bluffs in question on the discrepancy print were checked from offshore. Three bluffs were found to be of no landmark value due to dark colored vegetation.

ROADS

Corrections, additions and classifications are noted on discrepancy print and referenced to photographs.

PIERS

All piers in question and additions to same are noted on discrepancy print and referenced to photographs. All piers labeled (summer piers ) are piers that are removed in winter and replaced in summer, generally in the same place. } on or off

MARINE RAILWAYS & BOAT RAMPS

All marine railways and boat ramps are inked on photographs and referenced on discrepancy prints. One marine railway, in ruins, was found on Monomoy Island.

WRECKAGE

Two obstructions classified as bridge wreckage were noted and referenced to photographs on the discrepancy print.

ROCKS

All rocks questioned on the discrepancy print were verified, all rocks to be charted are shown on photograph no. 61 S 7640.

All rocks were investigated at or near low-water.

PUBLIC BUILDINGS

All post offices, churches and schools are noted on discrepancy print and referenced to photographs.

CRANBERRY BOGS

It was noted on the discrepancy print that this land feature was labeled water or marsh. This feature was field edited and all bogs that are in use were noted on the discrepancy print and referenced to photographs. These bogs are flooded with water in winter and drained in late spring.

SHORELINE

All shoreline was inspected and very little change was noted except on the North end and East shore of Monomoy Island and also the Southwest end of Nauset Beach. Sextant fixes and taped distances were taken from photo points on photographs 61 S 6734 & 38, 62 S 3068 & 69. The Eastern shore and South end of Monomoy Island appear to have changed uniformly since 1961 photography.

Field Edit notations are inked on the following photographs 61S6734, 61S6738, 61S6790, 61S7637, 61S7639, 61S7640, 61S7644, 61S7645, 62S3068, 62S3069, 62S5589, 62S5590, 62S5592, 62S5594, 62S5596, 62S5599, ~~62S5598~~.

Submitted by:

*E W Hartford*

Erwest W. Hartford  
Chief Sub Unit 6420

19 July 1963

Review Report  
T-12493  
(Chart 257)  
November 14, 1963

61. General Statement

See Summary accompanying Descriptive Report.

62. Comparison with Registered Topographic Surveys

The new chart drawing was not compared with registered topographic surveys during final review due to the existence of a published chart at the same scale as the new drawing.

63. Comparison with Maps of Other Agencies

- U.S.G.S. Quad. Dennis, Mass. 1:24,000 1940, revised 1949
- A.M.S. Quad. Harwich, Mass. 1:25,000 2nd edition, revised 1949
- A.M.S. Quad. Chatham, Mass. 1:25,000 revised 1947, reprinted 1948

The new chart drawing indicates major shoreline changes in the areas of Cackle Cove, Morris Island and Monomoy Island.

64. Comparison with Contemporary Hydrographic Surveys

No comparison was made due to the existence of a published chart at the same scale as the new drawing.

65. Comparison with Nautical Charts

- No. 257 1:20,000 2nd Edition Revised 8/20/62

Major shoreline changes at Cackle Cove, Monomoy Island and at the southwestern tip of Nauset Beach are shown on the new chart drawing.

The chart drawing provides a new position for Allen Harbor Breakwater Light as well as for several new landmark objects.

The field edit party inspected a number of rocks just south of, and to the west of Cackle Cove, thus superseding the rock pattern on the published chart in this area.

The new survey shows a number of field verified bluffs which do not appear on the chart.

New details such as piers, ruins, bulkheads, piling, etc. have been compiled along Herring River, in Allen Harbor, in Wyckmere Harbor, at Bucks Creek, in Oyster Pond, along Oyster Pond River, in Mill Pond and on Monomoy Island. Most of these details have been emphasized on the Final Comparison Print as an aid to the Chart Verifier.

66. Adequacy of Results and Future Surveys

The new chart drawing meets the National Accuracy Standards and Bureau requirements.

Reviewed by:

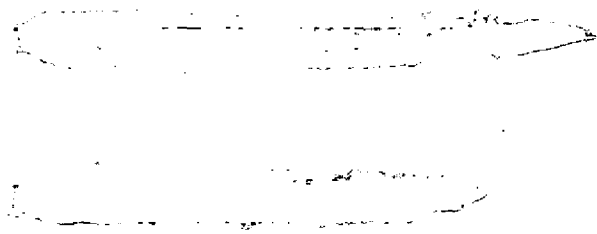
P. Glaser  
Carto. (Photo.)

Approved by:

William J. Tomkel  
Baltimore District Officer

Charles L. Lewis  
Chief, Cartographic Branch  
h.c.

J. E. Waugh 1/4/64  
Chief, Photogrammetry Division







HISTORY OF CARTOGRAPHIC WORK - NAUTICAL CHART DIVISION FILES

CHART

DRAWING

SHEET

PROJECT

NC REC CORR FUTURE  
DATE

TO REPRODUCTION  
NC NE NP RP TO  
DATE

LITH Rec'd  
LITH Ver  
PRINT DATE

APPLIED Part Full	SOURCE OF INFORMATION			LOCALITY	Type of Information	Information Applied			
	File No	Date	Authority						
1	Photos (Infrared) 611-1609 thru 1616 1621 " 1623 " 1662 1664 thru 1666 " 1681 " 1683 611-1684 thru 1689	April 1961	C+G.S.	Cape Cod area	Topo	Planimetric detail compiled with Kelsch Plotter.			
2	Contact Prints (Black & White of Color) 615-6800 thru 6806	April 1961	"	Monomoy Island	"	Planimetric detail compiled graphically using the vertical projector, holding the stereoplanigraph positions.			
3	Photos (Color) 615-6730 " 6732 thru 6740 " 6786 " 6794 " 7034 " 7043	April 1961	"	Monomoy Island Entire Chart	"	Photographs used to compile low water & shallow lines. Low water line, shallow line and off shore objects were located by using color prints in the vertical projector.			
4	Contact prints 625-5589 thru 5597 5598 " 5601	April 1962	"	Cape Cod area	"	Shoreline additions and revisions for Cape Cod area.			
5	Ratic prints 625-5589 thru 5597 5598 " 5601 Dennis Mass. Quad Marwich Mass. Quad Sheet 6967 11 M.E. 1949 Chatham Mass. Quad Sheet 7067 11 M.W. 1947	1949 Revised 1949	U.S.G.S. A.M.S.	Lewis Bay to Dennis Port to Cockle Cove Stage Harbor	Topo "	Road classification			
6	Annotated Chart 1209	Aug 1961	C+G.S.	Entire chart	Bluffs	Bluff inspection data.			
7	FERMS 567			"	Landmarks	Landmarks and Fixed Aids.			
Items	Compiled by	Started		Items	Completed	Verified by	Started	Completed	Time (hrs)
1-7	J. D. McEvoy	11-11-62		1-7	3-6-63	R. Glaser	3-8-63	3-11-63	10
1-4	C.A. Lipscomb (Drafting)	12-10-62			2-2-63				

(16)

CHART NO. 257

Location: Nantuxet Sound - Chatham Roads

Projection: Mercator

Datum M. A. 1927

Scale 1:20,000 at Middle Latitude 41°38'

Projection Interval 2' black Color 1' red

Border 0.0-1.5-1.5-7.5

Material: Bristol Board on Aluminum

All figures in millimeters

Limits Lat: 41°35'00" to 41°41'39"; Long: 69°56'54" to 70°10'00"

1' Long. at Middle Latitude 41°38' = 69.439

*Rec. in ...  
P. ...*

East to West <small>(Machine Settings (Cms))</small>			Machine Settings (Cms) South to North		
Line or 69°56'54"	11 0500	0.000	Neatline or 41°35'00"	•	0.000
57'	11 7444	6.944	12.0500	36'	92.485
58'	18.6883	69.439	21.2995	37'	92.580
59'	25.6322	69.439	30.5515	38'	92.644
70°00'	32.5761	69.439	37.8059	39'	92.668
01'	39.5200	69.439	44.0627	40'	92.598
02'	46.4639	69.439	58.3219	41'	92.616
03'	53.4078	69.439	67.5335	41'39"	60.816
04'	60.3517	69.439	(UL) 73.6051		015.551
05'	67.2956	69.439			
06'	74.2395	69.439			
07'	81.1834	69.439			
08'	88.1273	69.439			
09'	95.0712	69.439			
10'	102.0151	69.439			
		909.681			

Dimensions 24.8 x 35.8

DATE 8/2/61

DATE 8/13/61

**NONFLUORINATING/AIDS/09X LANDMARKS FOR CHARTS**

TO BE CHARTED  
~~UNREVIEWED~~  
~~UNRECORDED~~

STRIKE OUT TWO

Chatham Boats, Massachusetts Feb. 26, 19 63

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.  
The positions given have been checked after listing by Catherine A. Lapcomb

Miller J. Tonkel  
Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM							
				D. M. METERS	° ' "	D. M. METERS	° ' "								
	TOWER	(Stage Harbor Lighthouse 1880)		41 39 53.7	69 59 71.7	N.A.	1927	Tri.	8/4/61	X			257, 1209		
	TOWER	Aban. Lighthouse Ht=35 (36) ft. (Chatham Nonfluorinated Church 1920) Ht=98 (128) ft.		41 40 51.792	69 57 017.1	"		"	7/26/61	X			" "		
	STAIRPIPE	(Chatham Stairpipe 1931) Num. Steel, Red & White Squares Ht=115 (225) ft.		41 41 37.625	69 58 31.673	"		"	7/26/61	X			257, 1208, 1209		
	RADIO TOWER	Skeleton Steel, Red & White Ht=190 (192) ft.		41 40 13.943	70 01 32.627	"		Photo	7/26/61	X			257, 1209		
	STAIRPIPE	Harwich Municipal, Steel, Light Green Ht=155 (210) ft.		41 41 16.851	70 04 05.886	"		"	8/10/61	X			" "		
	TANK	Harwich Num., Steel Conical Roof Elliptical Bottom, Ht=72 (217) ft.		41 40 59.7	70 05 20.286	"		"	"	X			" "		
	SPIRE	(Harwichport Congregational Ch. Spire 1887) Ht=110 (135) ft.		41 40 2.777	70 04 36.645	"		Tri.	7/25/61	X			257		
	STACK	Harwichport Belmont Hotel Stack, Steel Ht=70 (90) ft.		41 39 24.784	70 07 8.875	"		Photo	8/14/61	X			257, 1209		
	TANK	Dennis Num. Steel Conical Roof Elliptical Bottom Ht=178 (193) ft.		40 40 02.793	70 09 04.744	"		"	8/10/61	X			" "		
	TANK	Dennis Num. Steel, Double Ellipsoidal Bottom, Larger of Two Ht=184 (199) ft.		41 40 0.916	70 09 04.680	"		"	"	X			" "		
	AERO	Chatham Airport Beacon Ht=37 (100) ft.		41 40 25.3	69 59 108.3	"		"	10/61	X			" "		
				41 41 19.656	69 59 33.513	"		"							
				41 41 606.4	7750.0	"		"							

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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

NONFLOATING AIDS ~~OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED  
STRIKE OUT TWO

Chatham Roads, Massachusetts Feb. 26, 19 63

I recommend that the following objects which have ~~(insert)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(insert)~~ the charts indicated.  
The positions given have been checked after listing by Catherine A. Lipscomb

Miller J. Tonkel Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*								DATUM
				D. M. METERS	° ' "	D. M. METERS	° ' "							
(Chatham South Lighthouse, 1880)				16.572	41 40	36.57	69 57	N.A. 1927	Tri.	8/1/61	X		257, 1209	
(Stage Harbor Lighthouse 1880)				514.3	41 39	30.914	69 59	"	"	"	X		"	
Abandoned Lighthouse (Daybeacon)				953.7	41 39	39.739	70 05	"	"	"	X		"	
Allen Harbor Breakwater Light				1226	41 39	37.406	70 03	"	"	"	X		"	
Wychemere Harbor Jetty Light				1151	41 39	29.886	69 59	"	"	"	X		"	
State Harbor Light				922	41 39	11.0		"	"	"	X		"	

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be 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

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U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC REVIEW SECTION

~~MONITORING AND MAINTENANCE OF~~ LANDMARKS FOR CHARTS

~~XXXXXXXXXXXX~~  
~~XXXXXXXXXXXX~~  
TO BE DELETED

STRIKE OUT TWO

Hyannis, Massachusetts 15 August 1961

I recommend that the following objects which have ~~(REMOVED)~~ been inspected from seaward to determine their value as landmarks be ~~REMOVED~~ (deleted from) the charts indicated.

The positions given have been checked after listing by

Joseph M. K. Wilson  
Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*					DATUM
				D. M.	SEC.	D. M.	SEC.				
MASSACHUSETTS	CUPOLA	(Harwich Exchange 2, 1934) Chart Standpipes higher to East	41 41.1	70 04.6				8/3/61	257 1209		
	SIL0	Water Tower Hurricane took off top 20 ft.	41 37.3	70 16.0				8/4/61	258 1209		
	AERO	Rotating Beacon Moved June 1961	41 39.9	70 17.2				8/4/61	258 1209		
	TOWER	Fire Lookout, SheoFlying Hall Moved	41 41.1	70 20.8				8/4/61	1209		
	TOWER	Fire Lookout, West Falmouth Moved	41 35.9	70 37.1				8/10/61	259 1209 1210		
	TANK	Dennisport, Belmont Hotel Tank Torn Down	41 39.5	70 07.0				8/11/61	257 1209		
	SPIRE	(West Yarmouth Congregational Church Spire, 1934) Not Prominent	41 39.0	70 14.7				8/14/61	258 1209		

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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12493

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
			<i>Examined only pending reconstruction L.V.E.</i>
1208	8/17 64	J.J. Streifler	<del>Full Part Before After Verification Review Inspection Signed Via</del>
1209	10-12-64	J.T. Gallahan	Drawing No. 31 <i>added 3aux Kan rks. same as 11/257</i>
258	11-5-64	J.T. Gallahan	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. #14 <i>area for this chart covered by T12494.</i>
250	1/12/65	Theresa Ware	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. <i>No revision - considered fully applied.</i>
			<i>See note on Hydro chart 250 drawing #16. R.E.C.</i>
270	8-27-65	W.J. Keeler	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No.
258	7-27-72	Lyle R. Conhart	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. #17 <i>- NO CORRECTION - CONSIDERED FULLY APPLIED - AREA COVERED BY T-12494</i>
1208	3-27-73	D.L. Poffilove	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. 32 <i>this chart 257 aug #13</i>
			<i>NO CORRECTION Consider Adequately applied</i>
257	9-13-73	J. Bailey	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. 13 <i>No correction. Adequately applied.</i>
114-5C	9-18-74	G. Heeley	<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No. 11 <i>NO CORR. CONSIDER ADEQUATELY APPLIED</i>
			<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No.
			<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No.
			<del>Full Part Before After Verification Review Inspection Signed Via</del> Drawing No.