

ORIGINAL

13309

13309

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

DESCRIPTIVE REPORT - DATA RECORD
T-13309

①

PROJECT NO. (II):

PH-6815

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

DESCRIPTIVE REPORT - DATA RECORD

T-13309

(2)

FIELD INSPECTION BY (III): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - Oct. 1, 1968 Date of Photography		
REFER TO THE FIELD EDIT REPORT (PAGE 19, HEADING 52)		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE Nov. 22, 1968
PROJECTION AND GRIDS CHECKED BY (IV): L. Van Scoy		DATE Nov. 26, 1968
CONTROL PLOTTED BY (III): Aerotriangulation - J. Steinberg Triangulation - None		DATE Feb. 26, 1969
CONTROL CHECKED BY (III): Aerotriangulation - J. Minton Triangulation - None		DATE Feb. 26, 1969
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I.I. Saperstein		DATE Jan. 16, 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L.O. Neterer Reviewed By: A.C. Rauck & C. Bishop	DATE 4/22/69 4/22/69
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A.C. Rauck, Jr.		DATE April 30, 1969
SCRIBING BY (III): Rockville Office		DATE 3/10/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation C. Bishop Field Edit R.E. Smith Scribing and Stick Up F. Margiotta		DATE May 12, 1969 6/1/70 7/21/72
REMARKS: Field Edit By: Richard E. Kesselring DATE Oct. 9/1969		

DESCRIPTIVE REPORT - DATA RECORD

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3

CAMERA (KIND OR SOURCE) (III):

Type "E" Wild RC-8

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
68E(c)-8004-8006	Oct. 1, 1968	11:56	1:20,000	0.9' Above M.L.W.
68E(c)-8069-8070	"	13:22	"	0.5' " "
68E(c)-7967-7969	"	11:03	1:40,000	1.3' " "

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: New London, Conn., State Pier		2.6'	3.1'
COORDINATE STATION: Haddam, Conn.		2.5'	3.0'
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Bernard Kurs

DATE:

November, 1972

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

2

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

None

RECOVERED:

None

IDENTIFIED

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

4

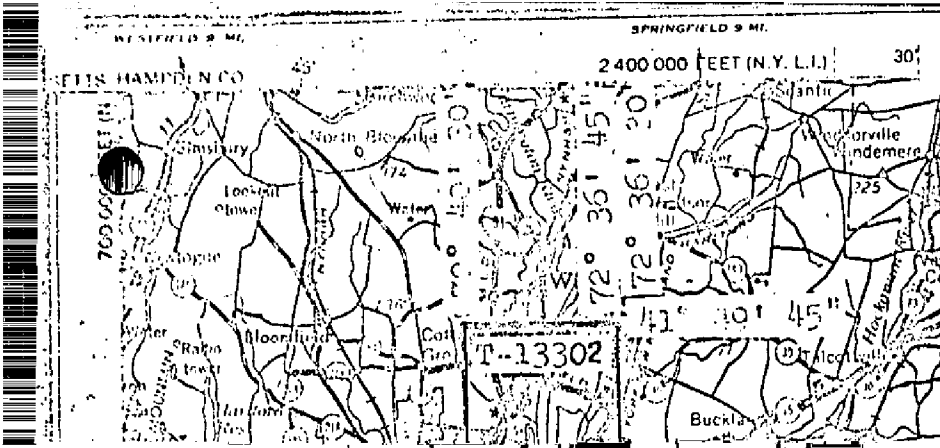
T-13309

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	April, 1969	Superseded
Field Edit Applied Compilation Complete	April, 1970	* SUPERSEDED * SEE BELOW
Final Review	Nov. 1972	

* CHART MAINTENANCE PRINT (ADVANCE MANUSCRIPT COPY)
FORWARDED TO MARINE CHART DIVISION, JULY 17, 1970

SCRIBING AND STICK-UP COMPLETED, 7/21/72

CHART MAINTENANCE PRINT (FINAL REVIEWED COPY)
FORWARDED TO ROCKVILLE OFFICE DEC. 15, 1972
- TO CHARTS JULY 1974



5
OFFICIAL MILEAGE FOR
COST ACCOUNTS

Sheet No.

Area Sq.
Miles

T-13302
T-13303
T-13304
T-13305
T-13306

2
3
4
3
2

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-13309

Shoreline survey T-13309 is one of 10 similar surveys in project PH-6815. The primary purpose of the project is to provide up-to-date shoreline and photo-hydro support data for the hydrographic surveys in the Connecticut River area. See page for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of premarking of horizontal control ~~for identification prior to the flying of photography.~~

Compilation was at 1:10,000 scale by ~~Wild B-8 Plotter~~ ^{Stereo - and graphic methods} using photography of October, 1968. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for the transfer of the shoreline to the boat sheet, photo hydro support use and field edit.

The compilation manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds longitude. After field edit data was applied the survey was scribed and reproduced on cronaflex. Final review was at the Atlantic Marine Center in October 1972. One cronaflex positive and negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT

PH-6815

T-13309

There was no field inspection prior to compilation.

Photogrammetric Plot Report
Job "H-6815"
Conn. River, Conn.

January 16, 1969

21. Area Covered

from latitudes $41^{\circ}23'30''$ to $41^{\circ}49'45''$ and consists of
ten (10) 1:10,000 scale T-sheets, T-13302 thru T-13311.

Connecticut River, Connecticut
Job PH-6815

Notes to Compiler

It will be noted that many bridge points classified 500 e.g. 19503 are shown on the IBM readouts and pricked on the 1:20,000 scale contact photographs. These points were to be used to orient the 1:20,000 scale ratio prints for hydro support. This was done by Washington Compilation Office request. Description for each 500 point is included.

10

68E(C) 7949

41°49'45"

72°40'30"

△₁

72°36'45"

△₂

72°36'30"

T-13302

41°46'00"

AEROTRIANGULATION SKETCH
CONN. RIVER, CONN.
JOB PH-6815
Jan. 1969

0 1:40,000 scale color photography

MAP T-13309

PROJECT NO. PH-6815

SCALE OF MAP 1:10,000

None
SCALE FACTOR[illegible]

COMPUTED BY R.R. White

DATE	Feb. 19, 1970
------	---------------

CHECKED BY A.C.R.

DATE 2/19/70

COMPILATION REPORT

T-13309

31. DELINEATION

Stereo - p/otter
Compilation was by Wild-B-8, supplemented by graphic refinement of details from 1:10,000 scale ratios.

p/otter
Models set on the Wild-B-8 were at 1:40,000 scale and were compiled at 1:10,000 scale. Minute details were then checked against the 1:10,000 ratio prints made from 1:20,000 contact photos, and graphically corrected where necessary.

32. CONTROL

Control was adequate. Refer to Photogrammetric Plot Report, dated January 16, 1969, specifically "Notes to Compiler".

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was checked and delineated from office stereoscopic examination of the 1:10,000 scale ratioed photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Along a few areas of the shoreline, tree overhang made positive identification of the mean high water line and along-shore structures difficult in a few instances.

However, there were enough open, and scattered sections of shoreline visible to compile these features within accuracy requirements.

Inasmuch as there was no field inspection prior to the compilation, further clarification of these features were asked of the field editor.

Low water lines, and grass in water areas were delineated from office interpretation of the low-water photographs. These were compiled as an aid to the hydrographer.

COMPILATION REPORT

T-13309

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Compilation was by ~~Wild B-8~~ ^{Stereo-plotter}, supplemented by graphic refinement of details from 1:10,000 scale ratios.

Models set on the ~~Wild B-8~~ ^{Plotter} were at 1:40,000 scale and were compiled at 1:10,000 scale. Minute details were then checked against the 1:10,000 ratio prints made from 1:20,000 contact photos, and graphically corrected where necessary.

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Low water lines, and grass in water areas were delineated from office interpretation of the ~~low water~~ photographs. These were compiled as an aid to the hydrographer.

This Field Edit was well done. There was only one instance where additional information would have been most useful. On the East shore of the Connecticut River, just North of the East Haddam Transmission Tower, is a small Marina or docking area. Field edit indicated this as a rock RIPRAP feature with an abundance of piling in the vicinity. Inasmuch as the area was obscured by overhanging trees, the compiler had difficulty in delineating the feature. An accompanying sketch by the field editor would have been helpful.

42 through 45

Inapplicable

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the following U.S. Geological Survey Quadrangle: Deep River, Connecticut; scale 1:24,000, date of issue 1961 reprinted 1964.

One notable large change has been made since the publication of this quadrangle. On the north shore of the Connecticut River in the vicinity of Haddam Neck, a large structure believed to be a power station and its accompanying large outfall canal has been developed. This does not appear on the quadrangle.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U.S.C.&G.S. Chart No. 266, scale 1:20,000, 4th edition, dated Jan. 15, 1968.

The same large differences were noted during this comparison as were noted under item 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

See Item 46 COMPARISON WITH EXISTING MAPS.

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.

~~May 7, 1969~~

June 11, 1970

Approved for forwarding:

Melvin J. Umbach

Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Div., AMC

Approved:



Alfred C. Holmes
RADM, NOAA
Director, AMC

OCT 4 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6815 (Conn.)

T-13309

Camp Bethel

Orchard Road

Cones Point

Outfall Canal

Connecticut River

Pine Brook

Plains Road

Cove Meadow

Rutty Creek

Cove Road

Salmon Cove

East Haddam

Salmon River

Haddam Neck

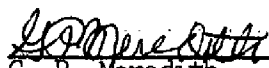
Shailerville

Mill Creek

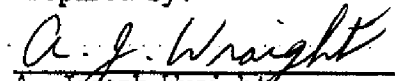
Scovill Landing

Moodus River

Approved:


G. P. Meredith
Chief, Scientific Data
and Services Division

Prepared by:


A. Joseph Wraight
Chief Geographer

T-13309

49. NOTES FOR THE HYDROGRAPHER

Shoals and bars indicated on Chart 266 have not been compiled on this manuscript. These could not be seen on the photographs.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 13309

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (<i>Topographic stations</i>) CHB		7. PHOTO HYDRO STATIONS CHB
8. BENCH MARKS CHB	9. PLOTTING OF SEXTANT FIXES RES	10. PHOTOGRAMMETRIC PLOT REPORT CHB	11. DETAIL POINTS CHB
ALONGSHORE AREAS (<i>Nautical Chart Data</i>)			
12. SHORELINE CHB	13. LOW-WATER LINE CHB	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION CHB	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 CHB		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES CHB

(19)

FIELD EDIT REPORT
CONNECTICUT RIVER, CONN.
JOB PH-6815
MAP T-13309

52. ADEQUACY OF COMPILATION

Compilation was adequate. There were numerous minor shoreline changes, but none of any major importance. All changes were indicated on the field edit ozalid and cross-referenced to the proper photograph.

A marine railway was overlooked at the downstream one of the two marinas on the map and a "boat lift" was incorrectly mapped as a "slip" at the upstream one. A dolphin was not mapped near the same boat lift. The outlet canal for the Connecticut Yankee Atomic Power Plant has a log barricade across the entrance to prohibit entry to boats. It was correctly delineated, though unlabeled, on the manuscript. The temperature of the water is raised twenty degrees Fahrenheit by the power plant's use of it.

There is a public boat launching ramp near the entrance to Salmon Cove.

The two objects compiled in the vicinity of East Haddam Light 46 are floating aids for navigation - black can buoys numbers 45 and 47.

A question was raised near a "bulkheaded" area, at Lat. 41° 27.7', Long. 72° 27.9', about a number of small piers that were charted previously. No piers were extant in the indicated area at the time of field edit, nor were they observed during photo-hydro support. There are, however, a number of piling in the vicinity seven in the offshore row, eleven in the shoreward row, so it is very likely that the area once contained a floating pier complex. The piling were visible on the color photographs and were indicated thereon. Attention was drawn to them on the field edit ozalid. The area that contains the piling is erroneously labeled "bulkhead". There are no bulkheads in the vicinity. The area does contain, however, a rock revetment, mistakenly labeled "riprap", by the field editor, on the field edit ozalid. It is hoped that the meaning is clear, as this same error occurs throughout the project area. It is, somehow, easier to write "riprap" than it is "revetment".

Several fairly extensive "swamp" areas were not compiled in the vicinity of Salmon Cove and the Salmon River. They were indicated by dashed lines on the color photographs and outlined, approximately, on the field edit ozalid.

The "grass in water" in Salmon Cove was correctly identified and delineated. It is the same type of grass, mixed with a few lily pads, that compose the marshes in the same area. This grass dies with the first frost, so that during the winter months, no "grass" is visible. Whether it is an annual or a perennial is not known. The field editor was unable to find any local residents who could classify it. It is believed that this grass is probably of the same family as Johnson grass (*Sorghum halepense*) as it is very similar in appearance. It may also be switchgrass or panicgrass (*Panicum* genus).

A sample is enclosed with this report. The areas where the "grass in water" is found, generally bare or are awash at MLW.

The section of the New York, New Haven and Hartford Railroad on this map, is abandoned.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

Mr. Earl E. Maxfield, a senior river pilot of the Connecticut River, will be happy to examine a proof copy of the map. Mr. Maxfield's address is: 1 Roberts Street, Saybrook, Connecticut.

56. LANDMARKS AND NON-FLOATING AIDS FOR NAVIGATION

There are three recommended nautical landmarks on this sheet. All were office identified and compiled. They were verified and submitted on form 567. The two transmission towers near the southerly limits of the map were formerly triangulation stations Haddam View, Haddam Transmission Tower, West Side, 1934, and East Haddam, Transmission Tower, East Side, 1934. It is not known if the towers now extant are the same towers as located in 1934. Please check against the photo plot.

There are only two fixed aids within the limits of this map. Both were office identified and compiled. They were verified by the field editor and submitted on form 567.

57. GEOGRAPHIC NAMES

The road labeled Connecticut 9 is Connecticut Route 9A. No other discrepancies were found in the names on this map.

58. ROCKS AND SHOALS

There are no noteworthy rocks, shoals, or shallow areas on this map. The major part of Salmon Cove is "shallow" with 2.0 feet or less of water at MLW.

59. PHOTOGRAPHY

Photography consisted of black and white copies of color photography and color photographs. The color photography was utilized exclusively for the field edit. Shadows and overhanging tree limbs caused some difficulty in a few areas, but the photography was generally good and allowed ready discernment of small details.

60. DISPOSITION OF DATA

The field edit ozalid, field prints containing field edit information and the processed cronapaque office prints, along with all pertinent data were forwarded to the Atlantic Marine Center. The film ozalids, copies of form 567's and copies of form 526's were transmitted to the hydrographic field party. The original form 526's were transmitted to Geodesy.

Richard E. Kesselring
Richard E. Kesselring
Surveying Technician

October 9, 1969

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

~~NONNAVIGATING AIDS OR~~ LANDMARKS FOR CHARTS

OUT TWO

Atlantic Marine Center

June 1, 1970

following objects which have ~~not~~ been inspected from seaward to determine their value as landmarks be the charts indicated.

have been checked after listing by

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

Allen L. Powell
Allen L. Powell, Director, AMC Chief of Party.

DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE #		LONGITUDE #									
		° ' "	D.M. METERS	° ' "	D.P. METERS	DATUM							
		41 27	39.752	72 27	50.453	N.A.	Triang.	10/6/69x				266	
			1226.3		1170.9	1927	T13309						

in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be area and not by individual field survey sheets. Information under each column-heading should be given.

A. J. P. / e

USCOMM-DC 36485-P66

NONFLOATING AIDS FOR LANDMARKS FOR CHARTS

TO BE CHARTED

TO BE REVISED

03-130-38-01-

STRIKE OUT TWO

Atlantic Marine Center

June 1, 1970

I recommend that the following objects which have ~~have not~~ been inspected from seaward to determine their value as landmarks be charted on ~~deleted from~~ the charts indicated.

The positions given have been checked after listing by

Albert C. Ramek, Jr.

A. C. Rauck, Jr.

Allen L. Powell, Director, AMC *Chief of Party*

[illegible]

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 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.

* TABULATE SECONDS AND METERS

L R.J. Porter USCOMM-DC 36485-P66

REVIEW REPORT T-13309

SHORELINE

NOVEMBER, 1972

61. GENERAL STATEMENT

See summary report which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS


A visual comparison was made with T-9091 and T-9092, dated July, 1952, at 1:10,000 scale. Discrepancies are noted on the comparison print in blue.

The shoreline of these surveys is superseded by T-13309 for nautical chart construction purposes.


63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Quadrangles Moodus,


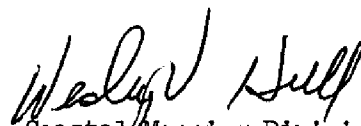
Approved for forwarding:


Melvin J. Umbach, CDR
Chief, Coastal Mapping Division
Atlantic Marine Center

Approved:


Alfred C. Holmes
RADM, NOAA
Director, AMC

Approved:

 
Chief, Photogrammetric Branch¹⁶ Chief, Coastal Mapping Division

25

Brown- USGS
Red- Chart 266
Blue- T-9091 Reg.
T-9092 "
Purple- Boat Sheet H-9051

y=240,000 FT.

41° 29'30"

29'

REACTOR DOME 1969 ht = 170 (200)

Power station

H a d d a m
N e c k

Spillway

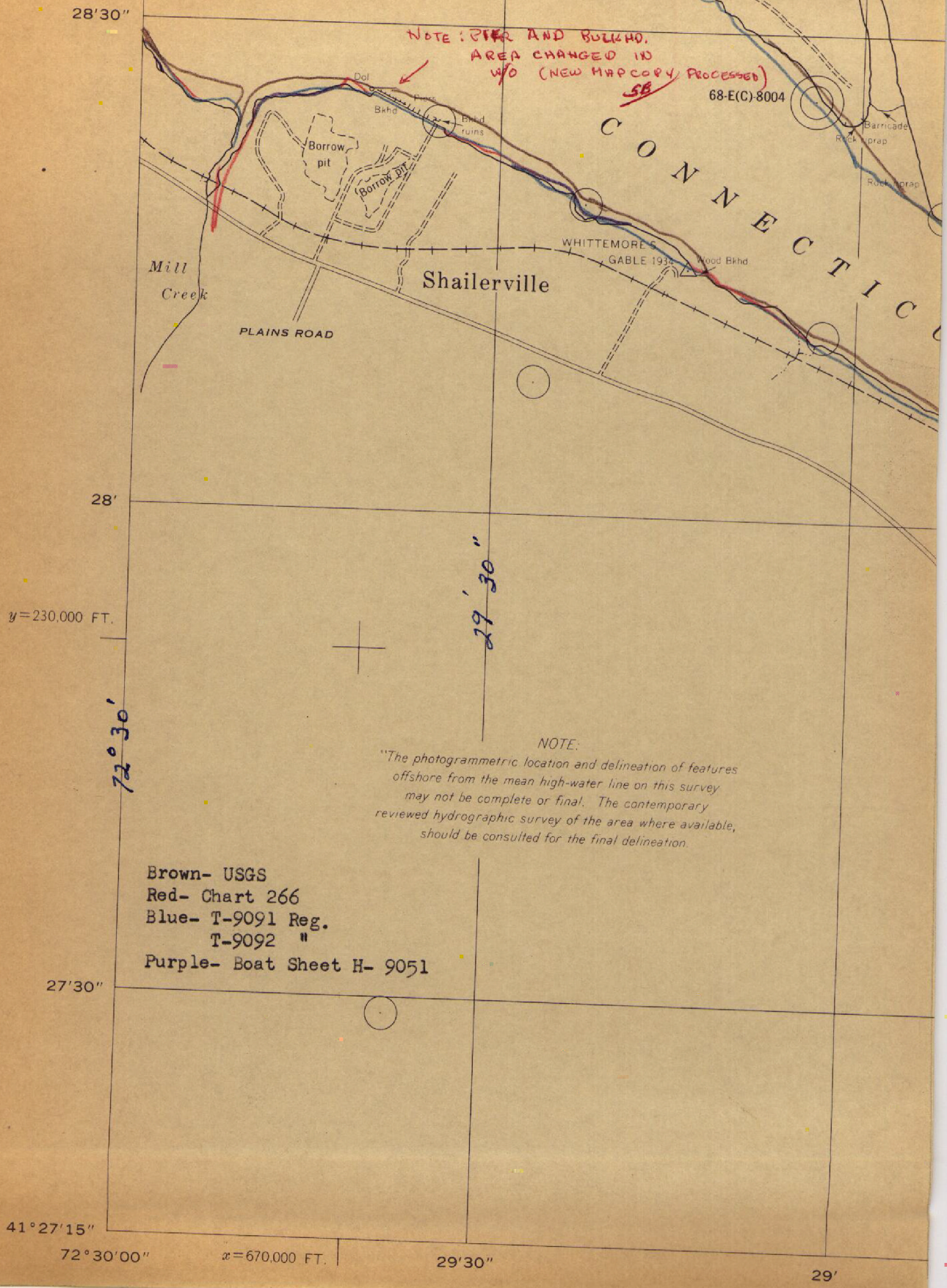
Outfall

Canal

Priv

Pond

y=235,000 FT.



(27)

30'

Brown- USGS
Red- Cart 266
Blue- T-9091 Reg.
T-9092 "
Purple- Boat Sheet- H-9051

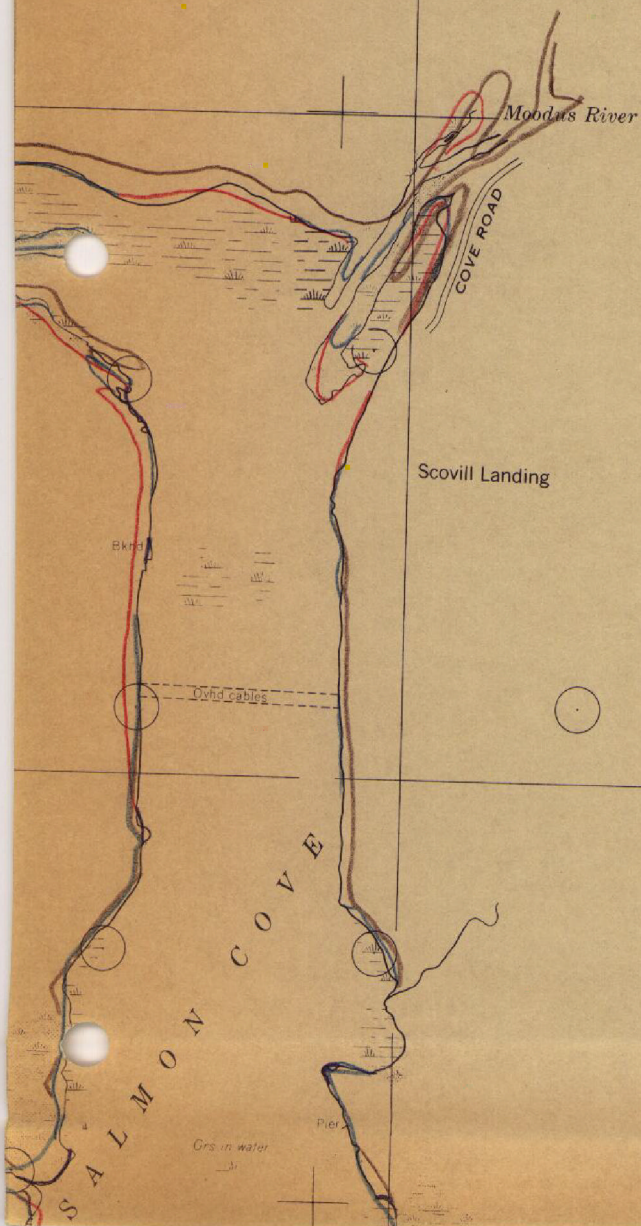
28'30"

72°28'

27'30"

29'30"

41°29'



Brown- USGS
Red- Chart 266
Blue- T-9091 Reg.
T-9092 "
Purple- Boat Sheet H-9051

28'30"

41°28'

27'30"

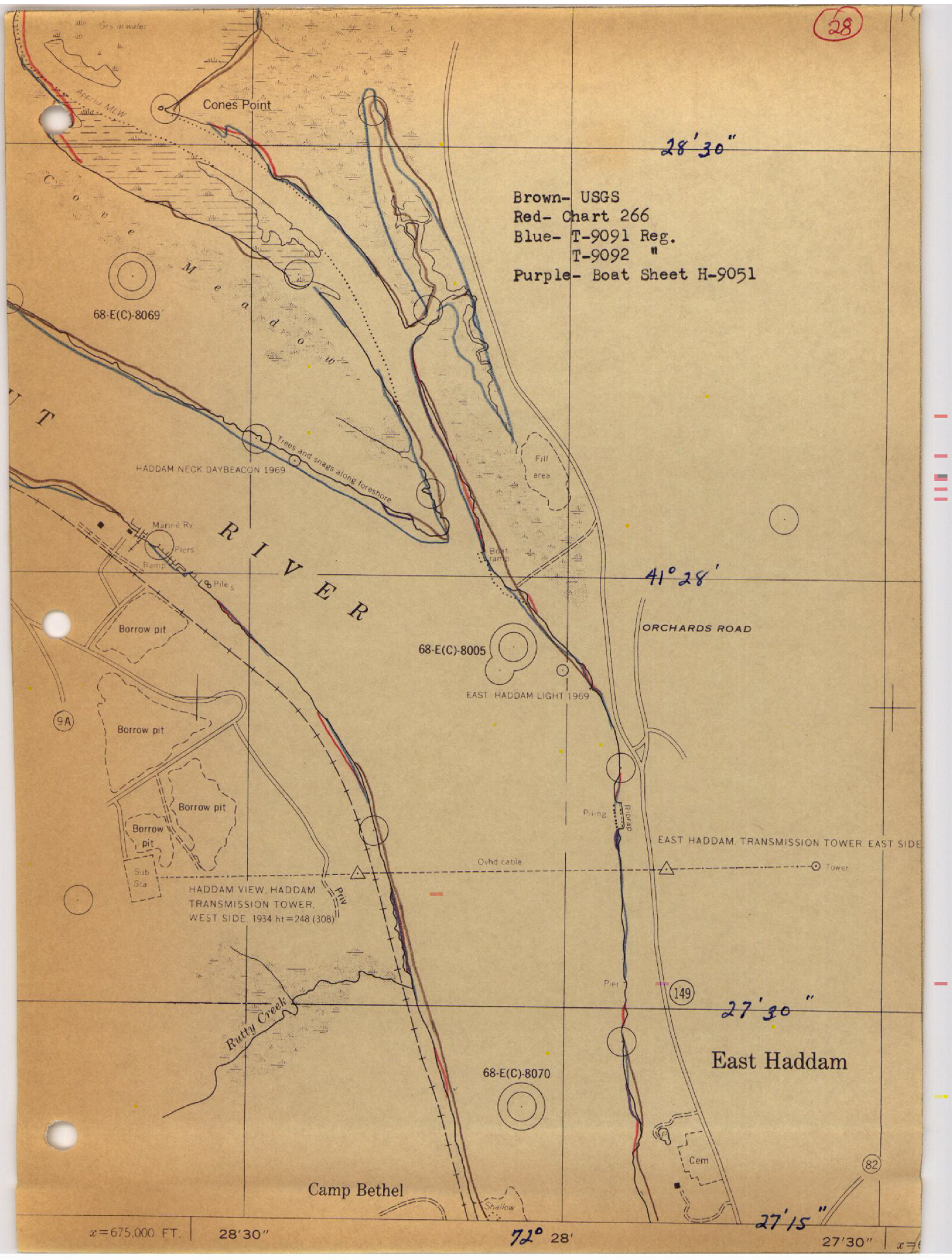
East Haddam

27'15"

72° 28'

x=675,000 FT. 28'30"

27'30" x=



[illegible]