

8393

Diag'd. on Diag. Ch. No. 1257-2 (Insert)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. CS-290-B Office No. T-8393

LOCALITY

State Florida

General locality Hillsborough County

Locality Wimauma

1942-'44

CHIEF OF PARTY

R.L. Scheppe

LIBRARY & ARCHIVES

DATE May 19, 1949

B-1870-1 (1)

8393

DATA RECORD

T- 8393

Quadrangle (II): Wimauma

Project No. (II): CS 290-3

N 2737.5 - W 1215

Field Office: Tampa, Florida Chief of Party: Ray L. Schoppe

Compilation Office: Tampa, Fla. Chief of Party: Ray L. Schoppe

Instructions dated (II III): 11/16/42 Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 1 May, 1944

Reported to Nautical Chart Section:

Reviewed: 26 May 1944 Applied to chart No. Date:

Redrafting Completed: 24 June 1944

Registered: ~~April 1944~~ Published: June, 1945

Compilation Scale: 1:20,000 Published Scale: 1:31680

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L. 1929

Reference Station (III): ~~D-63, 1934~~

Lat.: DC. 109 Long.:

Adjusted
~~11/16/42~~

State Plane Coordinates (VI): Florida West Zone

X = ~~403,912.16 ft.~~
397,697.17 ft.Y = ~~1,228,136.64 ft.~~
1,228,144.96 ft.

Military Grid Zone (VI) B-

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
11720	<i>Nov. 12, '42</i>	--	1:20,000	Inshore Sheet
11721	--	00	"	
11722	--	--	"	

Tide from (III): --

Mean Range: --

Spring Range: --

Camera: (Kind or source) U. S. C. & G. S. nine lens

Field Inspection by: Ralph E. Houtrow, Photo. Aid date: May, 1943

Field Edit by: *Ben O. Bryant, Jr. Photo. Aid* date: *May, 1944*

Date of Mean High-Water Line Location (III): --

Projection and Grids ruled by (III) Wash. Office date:

" " " checked by: " " date:

Control plotted by: J. Collins date: Jan., 1944

Control checked by: E. C. Andrews date: Jan., 1944

Radial Plot by: Tampa Office Personnel date: Feb., 1944

Detailed by: I. R. Roberts, Jr. Engr. Draftsman date: Mar-Apr-'44

Reviewed in compilation office by: A. L. Kidwell, Jr. Topo. Engr. date: April, 1944

Elevations on Field Edit Sheet
checked by: *Robert B. Callier*

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 65.1

Shoreline (More than 200 meters to opposite shore): 1.9

Shoreline (Less than 200 meters to opposite shore): 26.3

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 91

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 2708, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DESCRIPTIVE REPORT

QUADRANGLE T-8393 PROJECT CS 290 B

1. DESCRIPTION OF THE AREA.

Quadrangle 8393 lies in Hillsborough and Manatee counties with the village of Wimauma almost in the center of the quad. The land is generally high and well traversed by streams. It is sparsely settled and is mostly logged off ground. Vegetation consists of grass and palmetto, pine and oak.

2. COMPLETENESS OF FIELD INSPECTION.

All roads, buildings, woods, boundaries, etc. have been classified on photographs Nos. 11721, 11720, 11688, and 11689.

3. INTERPRETATION OF THE PHOTOGRAPHS.

In this area the vegetation shows on the photographs as follows;

Darker areas -- low ground (swamps and streams) with either thick oak or cypress.

Light areas -- flat, higher ground covered with scrub oak and spruce pine.

5. VERTICAL CONTROL.

Quad 8393 consisted of Wimauma, Florida, and surrounding vicinity.

The level notes taken for this quad will be found in Volumes Nos. 2 and 3, entitled "Wimauma and Vicinity".

Vertical control points were picked and inked on Photos. 11720, 11721, and 11722. In numerous instances topographical detail was so lacking that stakes were used to identify the selected point on the ground and it was picked directly on the photo. In such instances the recorded elevation of the said point was on top of the stake.

Ninety-one statute miles were estimated to have been covered by level loops in this quad.

Approximately eleven working days were expended in obtaining field notes,

reducing and checking same, and inking the elevations on the respective photos.

The average error of closure for the combined level loops was -0.14 of a foot. The point-elevations of all loops carrying errors, (regardless of size of error), were adjusted before being used.

For vertical control of the level loops, U.S. C&G Survey bench marks were used. A portion of the D - Line (which was first checked by referring them to the 107 - Line), the 110 - Line, and the 107 - Line were all used.

The quad, as a whole, lacked considerable road coverage. The northwest corner of it was finally abandoned altogether because of its having no roads or trails whatsoever to offer photographic identification of points we might have been able to select on the ground. This area roughly covered about 12 square miles. It was abandoned on the advice of Lieut. C. F. Chenworth, and the necessary elevations will be run in by the contour party.

There were two principal paved highways traversing the quad approximately at right-angles to one another. Other than these, the roads were very sandy and much of our levels had to be carried forward on foot as the truck was unable to carry on in such heavy sand.

The elevations of the quad ranged from 20 ft. to 120 ft., that is to say, there were six contours encountered by the level party.

6. CONTOURS AND DRAINAGE.

Contouring was accomplished by running a plane-table traverse along contours. Drainage was located by inspection of photographs in the field.

13. LANDING FIELDS AND AERONAUTICAL AIDS.

The Wimauma Airport (lying about 1/2 mile east of Wimauma) is the only aeronautical feature in this quad. This is an emergency field with no runways and no beacons or lights. The field is covered with grass and is being used to pasture cattle.

14. ROADS.

Roads were classified on the photographs according to instructions.

15. BRIDGES.

Bridges were classified in accordance with instructions by Mr. C. C. Fryer, Jr. Topo. Engineer. Any bridges marked abandoned are completely impassable.

16. BUILDINGS AND STRUCTURES.

Buildings and structures are classified on photographs as instructed.

17. BOUNDARIES.

The boundary between Hillsborough and Manatee counties was established by three points in a straight line. Two points were located by local testimony and the third by marker.

18. GEOGRAPHIC NAMES.

Geographic names shown on this quad were obtained from local testimony and markers. The names "Carlson Creek" and "Deep Lake" should be investigated before being used. The rest are taken from highway markers and local maps and are believed to be the accepted names.

A complete report on geographic names for this quad will be furnished at a later date in a special report on geographic names for the area of this project south of that portion for which a geographic name report has already been submitted.

The field work for this portion of the geographic names has not yet been accomplished.

The levels for this quadrangle and that part of the report pertaining thereto were accomplished by Mr. James M. Grover, Photo. Aid.

T-8393


-4-

The contouring and field inspection and those parts of the report were accomplished by Mr. Ralph E. Houtrow, Photo. Aid.

Respectfully submitted,

Ralph E. Houtrow
Photo. Aid

Approved


Ray L. Schloppe
Comdr. U.S.C&G Survey
Chief of Party

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COMPILATION REPORT
To Accompany
SHEET NO. T-8393

26. CONTROL

Seven control stations fall within the limits of this sheet and were sufficient to control the radial plot. Station D-83 could not be held in the plot and was not used in detailing. Station DC-107 was not picked on the photographs because no recovery card was submitted for it. The station was plotted on the sheet after detailing was completed and checked with the radial plot.

D-43 FHP
D-80 "
D-81 "
D-83 "
DC-107 "
DC-108 "
DC-109 "

27. MAIN RADIAL PLOT

A discussion of the main radial plot, of which this sheet is a part, is included in the descriptive report for Sheet T-8384.

Bench Marks
D-107
J-110
L-110
M-110
N-110
P-110
Q-110
R-110
S-110

28. DETAILING

The photographs were clear but the scale was in general only fair. The field inspection was adequate except for those things noted in the discrepancy overlay.

One topographic station, a water tower in the village of Wimauma, falls on the sheet. Form 524 for this station is being submitted.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

No existing topographic quadrangle maps were available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS

The area covered by this sheet is located too far inland to be covered by any nautical chart.

Respectfully submitted,

Ida R. Roberts

Ida R. Roberts,
Jr. Engr. Draftsman

Forwarded by

Ray L. Schoppe
Ray L. Schoppe,
Chief of Party.

46. METHODS

In editing the map compilation all roads and streets were traversed by truck and a visual inspection was made of all topographic features. All buildings, roads and ditches that were added to the compilation were plotted by measurements from topographic features or by plane table methods. Black ink was used for all additions and classifications. Green ink was used for all deletions.

All additions, corrections and deletions are to be found on the ozalid print of the map compilation.

All citrus that was large enough to overlap the ground was classified as "A". Where it was less than 10 feet tall, it was classified as "C".

The elevations shown on the map compilation were not checked against those shown on field photographs as the photographs were not accessible to this party.

47. ADEQUACY OF THE COMPILATION

The compilation was found to be adequate and complete except for the additions, deletions, and corrections noted on the field edit sheet.

48. ACCURACY TEST

Covered by a separate report. (*Attached hereto*)

14. ROAD CLASSIFICATIONS


All road classifications were checked and corrections were made where necessary. The additions, corrections, and deletions to be found on this sheet should supersede all previous compilations.

Respectfully submitted,

Ben O. Bryant,
Sr. Photo. Aid.

May 18, 1944

Approved by:


Ray L. Schoppe,
Chief of Party.

TESTS FOR HORIZONTAL ACCURACY

Quadrangles T-8392, T-8393, and T-8395
Project CS 290 B

This test consists of a traverse between triangulation station Parrish and triangulation station Ruskin. This is a second order traverse run by the party of Lieut. Comdr. G. W. Lovesee. It contains 49 test points, 38 of which were well defined and compiled. 13 of the points compiled are within the boundaries of Quadrangle T-8395, 7 are in Quadrangle T-8392, and 18 are in Quadrangle T-8393.

The test points are referred to in the computations as P.P. (Photo. point no.) and the test points are scaled from the map manuscript and referred to as M.M.

Tabulation of Test points

Description of point	Test point number	Latitude ° ' "	Longitude ° ' "	Difference in mm.
Inter. of rd. & dch. 75 degrees	P.P. 1 M.M. 1	27 35 517.1 518.0	82 23 1038.6 1039.0	.046
Inter. of rd. & rd. 90 degrees	P.P. 2 M.M. 2	27 35 363.9 364.0	82 24 921.0 920.0	.192
Inter. of rd. & dch. 90 degrees	P.P. 3 M.M. 3	27 35 404.14 406.0	82 24 1324.45 1326.0	.120
Inter. of rd. & rd. 90 degrees	P.P. 4 M.M. 4	27 35 462.32 462.0	82 25 887.54 890.0	.201
S.E. Corner R.R. Station	P.P. 5 M.M. 5	27 35 499.25 486.0	82 25 952.81 950.0	.686
Inter. of Rd. & rd. 75 degrees	P.P. 6 M.M. 6	27 35 519.87 522.0	82 25 887.81 890.0	.152
Inter. of rd. & rd. 90 degrees	P.P. 7 M.M. 7	27 35 810.75 812.0	82 25 888.88 890.0	.083
Inter. of rd. & rd. 85 degrees	P.P. 8 M.M. 8	27 35 1130.24 1130.0	82 25 889.94 890.0	.042
Inter. of rd. & rd. 90 degrees	P.P. 9 M.M. 9	27 36 1004.97 1004.0	82 25 22.76 24.0	.075
Inter. of rd. & rd. 90 degrees	P.P. 10 M.M. 10	27 36 1527.0 1524.0	82 24 1289.14 1290.0	.155

Description of point	Test point number	Latitude	Longitude	Difference in mm.
Inter. of rd. & rd. 75 degrees	P.P. 11 M.M. 11	27 36 1655.35 1652.0	82 24 1197.09 1202.0	.296
Inter. of rd. & dch. 55 degrees	P.P. 12 M.M. 12	27 37 384.75 384.0	82 24 779.56 780.0	.078
Inter. of rd. & dch. 75 degrees	P.P. 13 M.M. 13	27 37 494.63 496.0	82 24 699.43 700.0	.074
Inter. of rd. & rd. 45 degrees	P.P. 15 M.M. 15	27 37 1500.22 1500.0	82 23 1616.06 1617.0	.154
Inter. of rd. & sand drive, 75 degrees	P.P. 18 M.M. 18	27 38 569.74 574.0	82 23 971.55 972.0	.229
Inter. of rd. & rd. 80 degrees	P.P. 20 M.M. 20	27 38 1009.58 1012.0	82 23 620.36 620.0	.125
Inter. of rd. & dch. 90 degrees	P.P. 22 M.M. 22	27 39 33.24 34.0	82 22 1268.58 1273.0	.146
Inter. of rd. & dch. 65 degrees	P.P. 23 M.M. 23	27 39 232.08 236.0	82 22 1041.34 1043.0	.212
Inter. of rd. & rd. 75 degrees	P.P. 24 M.M. 24	27 39 899.97 800.0	82 22 399.08 400.0	.046
Inter. of rd. & dch. 90 & 65 degrees	P.P. 26 M.M. 26	27 40 1652.58 1660.0	82 21 1050.78 1060.0	.565
Center of Little Manatee R. Bridge	P.P. 27 M.M. 27	27 40 524.18 523.0	82 21 244.46 242.0	.458
Inter. of rd. & rd. 80 degrees	P.P. 28 M.M. 28	27 40 854.45 856.0	82 20 1541.46 1544.0	.148
Inter. of rd. & rd. 90 degrees	P.P. 29 M.M. 29	27 40 1285.07 1886.0	82 20 1381.26 1390.0	.449
Inter. of rd. & dch. 90 degrees	P.P. 30 M.M. 30	27 40 1591.38 1590.0	82 20 1282.23 1284.0	.112
Inter. of rd. & old lane, 75 degrees	P.P. 31 M.M. 31	27 40 1781.85 1785.0	82 20 1219.16 1222.0	.218
Inter. of rd. & dch. 90 degrees	P.P. 32 M.M. 32	27 41 514.97 510.0	82 20 1029.22 1028.0	.256
Inter. of rd. & rd. 80 degrees	P.P. 33 M.M. 33	27 41 748.28 750.0	82 20 952.73 950.0	.161

Description of point	Test point number	Latitude ° ,	Longitude ° ,	Difference in mm.
Inter. of rd. & dch. 75 degrees	P.P. 36 M.M. 36	27 42 1023.47 1022.0	82 20 255.06 254.0	.285
Inter. of rd. & U.S. Hwy 41, 90 degrees	P.P. 37 M.M. 37	27 42 1345.13 1348.0	82 20 207.93 208.0	.143
Inter. of rd. & dch. 80 degrees	P.P. 39 M.M. 39	27 42 1346.98 1348.0	82 20 1077.72 1078.0	.165
Inter. of rd. & dch. 90 degrees	P.P. 40 M.M. 40	27 42 1346.67 1348.0	82 20 1522.17 1513.0	.459
Inter. of rd. & dch. 60 degrees	P.P. 41 M.M. 41	27 42 1345.13 1348.0	82 21 517.49 516.0	.161
Inter. of rd. & dch. 60 degrees	P.P. 42 M.M. 42	27 42 1339.59 1342.0	82 21 1056.08 1044.0	.611 X
Inter. of 2 rd. & dch. 60 & 80 degrees	P.P. 43 M.M. 43	27 42 1339.28 1342.0	82 21 1554.39 1554.0	.137 3
Inter. of rd. & rd. 90 degrees	P.P. 44 M.M. 44	27 42 1339.28 1342.0	82 22 36.71 36.0	.140 4
Inter. of rd. & dch/ 30 degrees	P.P. 45 M.M. 45	27 42 1356.83 1360.0	82 22 639.12 638.0	.167 1
Inter. of pd. & dch. 90 degrees	P.P. 46 M.M. 46	27 42 1389.76 1392.0	82 22 1333.15 1334.0	.119
Inter. of rd. & rd. 90 degrees	P.P. 47 M.M. 47	27 42 1414.65 1414.0	82 23 237.79 240.0	.156

The manuscript error is less than .5 mm at all points tested except for test points, 5, 26, and 42; the horizontal accuracy is within the requirements of the instructions as 93% of ten points. comply to

ACCURACY REQUIREMENTS

Submitted by:

L. W. Swanson

Approved by:

Ray L. Schoppe
Chief of Party

Remarks.

Decisions

1		USGB
2		"
3		
4		Road Maps
5		277824
6		Railway Guide
7		Road Maps
8		
9		276822-23
10		"
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14		"
15		"
16		278823
17		277822-23
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M 234		

GEOGRAPHIC NAMES

Survey No. T-8393

WIMAUMA quadrangle

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	Florida	✓									1
	Hillsborough County	✓									2
	Manatee County	✓									3
	U.S. No. 41/ State No. 5 (Tamiami Trail)	✓									4
	Little Manatee River	✓									5
	Seaboard Air Line Ry.	✓									6
	State No. 30										7
											8
											9
	Gully Branch	✓									10
	Saffold Road	✓									11
	Willow	✓									12
	Willow Road	✓									13
	Lightfoot Road	✓									14
	Cypress Creek	✓									15
	Beddoe Road	✓									16
	Bullfrog Creek	✓									17
	Wimauma	✓									18
	Lake Wimauma	✓									19
	Moody Pond	✓									20
	Wimauma Airport	✓									21
	Wimauma School										22
	Wimauma Baptist Church										23
	Wimauma Methodist Church										24
	Balm Road	✓									25
	Wimauma Road	(No. 30)									26
	Church of God	✓									27
	Carlton Branch	✓									28

T-8393

2

Remarks

Decisions

1		277822-23
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GEOGRAPHIC NAMES

Survey No. T-8393

2	Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	
	Lorris Park ✓	✓								1
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checked and corrected
by L. Heck on 6/6/44

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 6393

WIMAUMA QUADRANGLE FLORIDA

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

Horizontal Test - attached to the Descriptive Report.

No vertical accuracy test was run for this quadrangle.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

No previous surveys covered this map area.

Comparison with Nautical Charts Nos. None. Inland sheet.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

No major revisions, except the change of form of the 80-ft contour in a swamp area east of Balm Road and north of Wimauma Road.

Review Report written from notes left on a check list at the time of review. LTS

Reviewed 26 May 1944

By Robert Collier
Robert Collier, 26 May, 1944

under direction of D. H. Benson

~~Inspected by B. G. Jones~~

Examined and approved:

B. G. Jones 4/49
~~Chief, Surveys Branch~~
Tech. Ass't. to the Chief,
Div. of Photogrammetry

K. T. Adams
~~Chief, Topography Section~~
Chief, Div. of Photogrammetry

W. M. Scarfe
~~Chief, Div. of Charts~~
Chief, Nautical Chart Branch
Div. of Charts

W. M. Scarfe
Chief, Div. of Coastal
Surveys

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.