4586 SUPPLEMENTAL I

Form 504 Ed. June, 1928			
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Descriptive Report to Accompany Air Photo Topographic Sheet No. 4586 Hastings on Hudson to Irvington.

This sheet is a compilation of two overlapping strips of single lens photographs. The line of flight for the shore strip of pictures follows closely along the shoreline. This strip consists of pictures Nos. 102 to 112 with the direction of flight northward, and of pictures Nos. 590 to 596 with the direction of flight southward. The inshore strip consists of pictures Nos. 133 to 143 with the direction of flight northward.

Pictures Nos. 102 to 112 taken Sept. 28, 1930 1:20 to 1:30 P.M.
Pictures Nos. 133 to 143 taken Sept. 28, 1930 1:30 to 1:40 P.M.
Pictures Nos. 590 to 596 taken Sept. 4, 1930 12:45 to 12:50 P.M.

Control.

31.

The plot on this sheet was controlled by triengulation established in 1930 and by triengulation station "S. Hastings Chimney" established in 1898. Triengulation Station "Rail 1930" plotted on this sheet could not be definitely identified on the photographs and was not used as a control point. Shore line and topographic stations were transferred from topographic sheet No. 4559, surveyed 1930, to this sheet. This shoreline was used in a general way to maintain the azimuth of the preliminary plot. Topographic stations were not used as precise control points.

Compilation.

The single lens negatives of this area were of an approximate scale of 1:10,000. Prints were made from these negatives to a scale of 1:5000. The ratio of enlargement was determined by a radial plot of control points for each photographic strip flight.

A projection was made on celluloid on a scale of 1:5000 and all triangulation stations plotted. Shoreline and topographic stations were transferred from topographic sheet 4559 to this sheet.

A radial line traverse was next plotted with the 1:5000 scale prints. This plot was controlled by triangulation. Points of detail were located from the radial plot at short intervals over the sheet.

The difference in elevation of several hundred feet between the shoreline and the tops of the hills adjacent to the shoreline caused large displacements in the photographs and the radial plot showed a tendency to break down on certain tilted pictures. Such pictures

were adjusted by selecting the most probable position of the plumb point and using that point as the origin of the radial lines. The plumb point was fixed along the general line of flight at a position indicated by the exposure interval and by evidence of any fore and aft tilt.

The overlap of pictures along the shore strips was ample and the distances between triangulation stations reasonably short. These strips of pictures were plotted with little difficulty except for pictures 109 and 110 in the vicinity of triangulation station Rail, and picture 596 in the vicinity of triangulation station Book, which were tilted. The tilted pictures were adjusted as stated in the preceding paragraph and the plot carried through to close on the triangulation.

The overlap of pictures on the inshore strip was only about fifty per cent and in some places less than fifty per cent. Therefore, a large part of the detail inside the limit of the shore strip was controlled by points located with only two intersecting radials. Picture No. 134 in this strip was evidently substituted from the shore strip and was of no use in making the plot. Picture No. 138 is tilted and was adjusted as explained in a preceding paragraph.

The location of detail on this sheet was obtained by adjustment between points located by the radial plot. A large number of such points were located in order to eliminate any considerable errors of adjustment.

Sheet compiled in two sections.

An error in the plotted position of triangulation station S. Hastings Chimney 1898 was found after the plot and inking of detail was apparently completed. It was necessary to replot the sheet from parallel of latitude 40° 59' 00 up to parallel of latitude 41° 00' 30 and a new projection was made for that purpose. This sheet is, therefore, on two projections, the southern section on a projection made in June and the northern section on a projection made in March. The projection made in March has expanded somewhat and is slightly larger than the projection on which the southern section of the sheet is plotted.

Names.

Names on this sheet were taken from topographic sheet No. 4559 and from Sanborn Maps furnished by the Library of Congress.

Widths of Roads and Streets.

The widths of streets shown on this sheet are the widths between curb lines. Widths of roads are the actual width of clear surface apparent on the photographs.

Comparison with Topographic Sheet 4559.

- a. Shoreline at South End of Docks, Latitude 40° 59:30 The difference in shoreline in this locality is probably due to the fact that a "fill" was being made at the time of the topographic survey as evidenced by a note on the topographic sheet. The pictures were taken at a later date when the filling operations had progressed to the line shown on this sheet.
- b. Detail from the Vicinity of Triangulation Station "S. Hastings Chimney" 1898 to Triangulation Station "Brass" 1930. All detail in this locality is shown northward of the locations given on the topographic sheet. This difference is due to the fact that triangulation station S. Hastings Chimney 1898 as plotted on the topographic sheet is in error about 5 meters to the southward. All topographic stations in this area are relocated on this sheet except stations "Top" and "Flag" which were not identified on the photographs. The center of the front of the roof on which station "Top", a flag pole, was located has been located on this sheet at the following position and is marked by a small hole in the celluloid sheet.

Center of front of building American Brass Company

j,

Latitude 40° 59° 30 (Sec. in M = $\frac{440}{(486)}$

Approximate location of Sta. "Top"

Longitude 73° 53. 00 (Sec. in M = 290

- c. Position of Overpass of Station "Boy" (Topographic sheet) and Position of Signal Bridge at Station "Yel" (Topographic Sheet).

 Both positions on this sheet are considerably south of positions shown for for same objects on the topographic sheet. It seems probably that the positions of stations "Boy" and "Yel" are in error on the topographic sheet in about same amount as are the overpass and signal bridge. The location of these objects on the air photographic sheet depend in part on pictures which had to be adjusted for tilt. However, a study of the photographic plot seems to indicate a probable error of not more than three meters in a north south direction.
- d. Detail in the Vicinity of Dobbs Ferry. Considerable difference exists between the two sheets in this locality. Positions for Station Pow and Station Tin (names used on topographic sheet) are given in list of recoverable stations submitted with this report.

- e. Small Brick Power House 1/4 mi. North of Triangulation Station Book 1930. This is station Kin on the topographic sheet. The positions are not the same. Position from this sheet is given in the list of recoverable stations.
- d. Section of Dock at Station "Ale" (Topographic Sheet). Station Ale was a small flagpole on the dock. The pole was not identified on the photographs, but the corner of the dock on which the flagpole was located was identified. It was located on this sheet in the following position which is somewhat southwest of the planetable position.

Latitude 41° Ol' 30 (Sec. in M = 452) Longitude 73° 52' 30 (Sec. in M = 249)

Land Marks for Charts and Recoverable Stations.

A list of objects located and recoverable for future surveys and a list of objects recommended as land marks for charts are attached to this report.

Respectfully submitted,

g. fores g. fand g. E.

APPROVED

FIELD RECORDS (O)

Syraved + forwarded.

Chief, Division of Charts

Chief, Div. of Hyd'y and Top'y

Chief, Section Field Work

Positions of Recoverable Objects.

Object and Description	Lat.	DM -	Long.	DP	Method of Determina tion.
W. Corner of small brick house west		 			<u> </u>
of railroad tracks. Sta. "Kin" on_	 	_450_		263	
topographic sheet 4559	41001.00	(476)	73052130	575	Photo
S.W. corner of small red brick power			-		
house west of railroad track. Signal		50]	582	_
"Pow" on topographic sheet	41°00'30	(875)	73 ⁰ 52*30	(119)	Photo
N.W. corner of small tin house on north					
end_of_docks_at_Dobbs_Ferry Station		5 72	-	401_	
"Tin" on topographic sheet	41000130	(354)	73052*30	_(3 <u>00</u>)_	<u> </u>
) <u> </u>			-
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DIVISION OF CHARTS, FILE NO. ___

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

_			Washington, D. C.	
₽			June 20, 1931	193
		~	_	

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted. and were recommended for charting on the proposed 1:10,000 Anchorage Chart by the Communities Officer of the HATCHA. See Descriptive Report of Sheet 4509 and Field Photographs. Chief of Party.

,	٠, ٠			•						
DESCRIPTION		L	ATIT	UDE		LONG	ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0		'	O, M. METERS	۰	ı	D. P. METERS		<u> </u>	
Gray chingled contest				***** A			404 B	P.A.	Trieng.	748
spire on Presbyterian	41	OX.	,	1,634.2	73	52	494.9 (907.0)			
church & Down 1980										
		, .	_	· ·						
Cupole on Municipal			_	663	ļ		143	ļ		
Building Dobbe Ferry.	43	00	50		73	52 50	1	N.A.	Photo	7 48
Red Gupola	43	90	50	V25 (205)	73	52 50	196 (508)	N.A.	Photo	748
Large Brown Brick								ļ		
House	47	00	.8		78	52.6		H.A.	Photo 11	748
* Large Red Brick House	41	. 00	.7		73	52.7		H.A.	Photo 11	148
* Large Gray House 8										
chimneys, slate roof	41	. 00	.5		75	52.9		H.A.	Photo 10	9 748

the photo, where for position did grown plan, thread photographs for identification. A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to short

chart.

Form 567 Ed. Dec., 1929

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Down	,	Woshington, D. C.	
्रहें इ.स.च्या		June 88, 1931.	_, 193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

See Notes Pag	e l	<u> </u>									Chief of Part
					}						
DESCRIPTION		LA	TIT	UDE		LO	NGI	TUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	•	1		, M. METERS	۰	1	·	D, P. METERS			
Oupole - Ardsley railroad station	41	07	50	250	73	88	20	1.59	NoA.	Photo	748
		_	_		ļ 				·····		
Red Brick stack of		-	+				-				
power plant at Ardeley			-		ļ T-—		_				
on Hadson	41	02	20	156	73	52	B 0	157	M.A.	Photo	748
							-				
Green tipped cupols on		··.	_								
Ardeley Inn.	43	01	30	195	73	52	36	98	R.A.	Photo	148
Tall white concrete		<u> </u>	+		<u> </u>						
steck & Book 1930	43.	01	-	26.5 (1884.6	7	3 51	8	1058,8 (366,8)	Ноло	Triang.	748
Pyramidal top of open								 	· .		
cupola ca susmerill											
Methodist Church											
A Met 1930	43.	00		1531.9 (589.1)		52		(902.A		Triang.	748
			_	,							

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to short

U. S. GOVERNMENT PRINTING OFFICE: 1931

chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

	Heshington, P. C.	
	June 25, 1931.	, 193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Sea Notes Page 6										Chief of Party.	
*					Posi	TION		· 		CHARTS AFFECTED	
DESCRIPTION		L	ATIT	UDE		LONG	ITUDE	DATUM	METHOD OF DETER- MINATION		
	٥		-	D. M. METERS	0	- 1	D, P. METERS				
Hed and white building City Hall	40	59,	,♥		75	63,0	·	N.A.	Photo 10	148	
Red brick power house											
white trim	40	594	,9		78	55,1		H.A.	Fhote 10	7 748	
*Lerge yellow building	40	59,			73	52.7		B.A.	Photo 10	6 148	
Black and white cupols			. ,				453		,		
on large gray building	43	00	50	(879)	73	52 3	(259)	N.A.	Photo	74	
Prominent steel tank on											
American Brass Co.				A			200. 6				
Dock A Bress 1930	40	50	_	(631.7)	45	3 63	(3770-0)	N.A.	Triang.	748	
100 ft. flagpole in											
front of Longvue Colf				- an o			1225.6				
Club 🛆 Club 1930	40	59		52,9 1797.7	75	52	(197.0)	N.A.	Triens.	748	

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

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chart.

DIVISION OF	CHARTS.	, FILE	No
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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

•	Washington, D. C.	
	June 26, 1931,	, 193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

see Notes Page (<u> </u>							Chief of Party.
					•				
DESCRIPTION	L	TITA.	UDE	L	ONG	ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0	-	o, M. METERS	٥	•	D. P. METERS			
Black steel standpipe	41-00		78.8 (1772.0	73-	52	422.1 (980.2	N.A.	Triang.	not charte
,					_				
Note: Position given in	that	02	<u> </u>	leck !	1930	end 1s	a posi	tion on	he rin
of the tank. Center po	si tio	ממ	ot knom		•		•		· · · · · · · · · · · · · · · · · · ·
ellow brick steck in	•								
astings Pavement Co.	40 59	30	251 (674)	75 53	00	241	N.A.	Photo	748
			775				•		
ellow brick stack	40 59	00	(152)	73 52	00	244	N.A.	Photo	748
leak tenk	40 59	00	679 (247)	78 62	00	175	N.A.	Phote	748
		_						,	
rominent silver colored	40 59		104.9	73 52	}	870.6 (631.8)	N.A.	Trieng.	748
tandpipe Silver 193	0								/40
quere brick chimney 3. Hestings Chim. 1898	40 5	9	647.5	73 8	13	167.9	N.A.	Trieng.	148

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart

U. S. GOVERNMENT PRINTING OFFICE: 1983 chart.

Form 567 Ed. Dec., 1929

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DIVISION OF CHARTS, FILE No.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

 AMERICAN CONT.	76 M18	
June	26, 1951.	193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

see Notes Page	6										Chief of Part
					209	SITIC	N				
DESCRIPTION	LATITUDE				LONGITUDE			ITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	٥	>	•	D. M. METERS	٥	, 1	•	D, P. METERS			
fellow brick stack	40	59	00	586 (340)	73	53	00	269	MaAs	Photo	748
											•
quere tower on red											
iones	40	59	:00	555 (570)	73	58	50	666 (145)	N.A.	Photo	74
-											
Tanko Los escel reservis on			•								
merican Brass Co. dock	40	50	- 00	(705) GS2	75	63	00	278	N.A.	Pheto	748
					Ŀ						
Large prom. ballding			_^								
with red roof	4.1	03			73	58	•4		H.A.	Photo	748
					_						
			_								
									7		
,				,							

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart

D. B. GOVERNMENT PRINTING OFFICE: 2832 chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 4586

REGISTER NO.

State. New York
General locality Hudson River
Locality Hastings on Hudson to Irvington Photos taken
Scale 1/5000 Date of surveySept. 4 & Sept. 28 19 30 Airplane
Wessel Aerotopograph Corporation of America.
Chief of Party O. S. Reading Plotted Surveyed by B. G. Jones
Inked by B. G. J.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated (Control and compilation July 22 , 1930
Remarks: This sheet is a compilation of single lens air
photographs Nos. 102 to 112, Nos. 133 to 143, and Nos. 590 to
506 and was printed by photo lithographic process.

REPORT FOR T-4586 SUPPLEMENTAL

The corrections in red were plotted from single lens Air Photographs without the aid of field inspection. No field inspection is contemplated at this time.

PHOTOGRAPHS

Single lens 7 x 9, Scale 1:10,000.

The negatives are on file in this office. The photographs were taken in February, 1939, by the Photographic Unit of the Naval Air Station, washington, D. C.

PLOT

Corrections shown in red were plotted in this office from contact prints by L. C. Lande. and were refunded to standards for conetion of the 748 in mark 1939

The recent hydrographic surveys of the Hudson River do not extend as far north as this compilation.

B.G. gones 6/19/39