

4065a
4065b

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

Topographic

Field No.

Office No.

4065A-b

LOCALITY

State

Maryland

General locality

Patapso River

Locality

Baltimore, Md.

Harbor

1924

CHIEF OF PARTY

Robert J. Auld

LIBRARY & ARCHIVES

DATE

4065a
4065b

857

4065

a+b

Form 501

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Maryland

11-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 4065^{a+b}

LOCALITY:

Patapsco River

Baltimore Harbor

~~Fort McHenry to Sparrows~~

Point

1924

CHIEF OF PARTY:

Robert J. Auld

b
+
m
4065

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 21, 1924.

DESCRIPTIVE REPORT

To accompany Topographic Sheet of Baltimore Harbor extending from Fort McHenry to Sparrows Point including Middle Branch and Curtis Creek.

The area covered by the topographic sheet described in this report includes the portion of Chart No. 545, Baltimore Harbor, south of Fort McHenry. A separate topographic sheet covers the portion known as Northwest Harbor or Inner Basin.

The purpose of the topographic survey was for the revision of shoreline and other features shown on the chart. As chart 545 is a compilation of data from various sources sufficient topographic control was desired in the use of any additional data. As stated in the original instructions of February 1, 1924, any surveys which could be obtained from the city, railroads or government bureaus, were to be examined in the field with respect to accuracy and reliability of detail.

On February 6, 1924, various sources of information were visited in Baltimore and it was found that much data in the nature of recent surveys could be obtained from the Topographic Survey of Baltimore City. Triangulation points belonging to the Coast and Geodetic Survey and Army Engineer Corps were used for traverse control by the city. It was found that usually one or more of these points plotted on each of the sheets or sections of the city's survey. A system of coordinates based on Washington Monument serves to orient and locate features.

After consultation with the Washington Office, it was decided to execute topography only in areas affected by changes not shown by the city's survey and to furnish points of control for the proper orientation and reduction of their sheets. After the topography necessary had been accomplished, instructions were received on March 24, 1924 to execute a hydrographic survey of Baltimore Harbor. This necessitated some additional amount of topography to locate signals for hydrographic use.

The following blueprints were furnished by the Topographic Survey of Baltimore which cover the area noted in this report: Sheets 3S1W, 3S3E, 3S4E, 3S5E, 4S1W, 4S1E, 4S2E, 4S3E, 5S1E, 5S2E, 5S3E, 6S2E, 6S3E, 6S4E, 7S3E, 7S4E, 7S5E.

Sheets cover 1000 foot squares and are designated with respect to center of coordinates. The location of these sheets is shown on chart 545 used as an index map. This index map also shows the location

of the points determined by triangulation. Many of these points were determined by the Engineer Corps but their positions have been computed by the Coast and Geodetic Survey from data submitted. The blueprint obtained from Bethlehem Steel Co. shows the topography of Sparrows Point. Blueprints obtained from the Baltimore and Ohio Railroad, Pennsylvania Railroad and Western Maryland Railway overlap the area of this sheet but do not contain data which has not been obtained from other reliable sources. These railroad blueprints will be discussed in other reports.

In the area surrounding Port Covington, the marine terminal of the Western Maryland Railway, the topography was inaccurate both on the north and south side of the Patapsco River. This area bounded by Latitude $39^{\circ} 14' - 16'$ and Longitude $76^{\circ} 34'.8 - 38'$ was traversed in the field and shows the outline of the shore about March 1, 1924. The south shore is owned by the Arundel Corporation, a sand and gravel concern. Their dredges are working continuously in this locality both along the shore and in the river. They are cutting away the land at a rate of twenty acres a year and leaving about 16 to 18 feet of water in place. Their dredging operations have also decreased the amount of shoal area in the vicinity and numerous pot holes were developed in the hydrography. In this locality an aerial photograph taken occasionally ought to furnish good material for revision purposes. On the north side, Baltimore City through its Harbor Board is developing what is called "McComas St. Terminal". At present this consists of a bulkhead in front of which a channel was dredged in the soft mud. This channel was then filled with sand and this sand piled up 20 or more feet above the surface of the water. Soundings indicate there is 90 feet of mud or soft silt and the intention of the Harbor Board Engineers is to keep piling sand up until the weight of sand forces out the mud and after settlement will give bearing for the piers which it is proposed to build. This development, however, is apt to be slow and until completed little use will be made of the docks west of the Bethlehem Shipbuilding Corporation.

In examining the sheets of the City Topographic Survey, valuable assistance was obtained through the use of a set of aerial photographs taken from an airplane of the Navy Department. These photographs show the land features very distinctly. The Chief Engineer of the Harbor Board of Baltimore was so interested in the excellent impression which one can conceive of Baltimore Harbor through the photographs that he secured permission from the Navy Department to reproduce them. A copy of this book of pictures with a key map is in the files of the Library as G X 3723. A full set of these photographs which was received from the Navy Department forms a part of the data accompanying the topographic sheets of Baltimore Harbor.

AB 3985 On the east side of Patapsco River from Colgate Creek to Bear Creek some changes had occurred in topography. No maps could be secured

AB 3985

of this section so a traverse was run from triangulation stations St. Helena to Bear. Station Dundalk was recovered and azimuth and distance checked from numerous three point solutions. From Station Bear the topography was extended a short distance to include some changes which had occurred on the west side of Bear Creek and also to show the establishment of a boat yard in Peach Orchard Creek by Unger & Mahon.

As noted previously a blueprint of Bethlehem Steel Company showing the features of Sparrows Point was obtained. Examination of this blueprint showed that sufficient control points were indicated so that it could be oriented properly as part of the chart. A pantograph reduction of this print was made by the field party for use on the hydrographic sheet and little or no error was apparent in the agreement of positions determined from sextant angles with the topography of the blueprint. Some minor variations in shoreline will be noted with regard to the slag dump but such is to be expected.

Control for hydrography was carried down Curtis Creek from Stations Smith and Creek by means of plane table triangulation aided by resections upon station D⁴² and other more distant stations. The shoreline was noted only in places where changes were seen to have taken place. It is probable that the U. S. Coast Guard have a map of their depot at Arundel Cove but it was not possible to obtain such at the depot. The Ordnance Depot of the U. S. Army on Curtis Creek is still in use and the detail is given quite accurately on the present edition of chart 545. South of the draw bridge on the west side of Curtis Creek are two fertilizer plants, one of which has a dredged slip with a covered dock on the south side adjacent to the warehouse. North of the drawbridge is Smith's boat yard with the American Oil Company next to the north having acquired the property formerly owned by Stoll. Station Curtis is located on this property but has been mutilated and it is probable that it will be destroyed. Another oil company which it is believed is termed the Baltimore Terminal Warehouse Corporation has acquired the property north of the American Oil Company fronting both on Curtis Creek and extending back on Cabin Branch beyond the B. & O. Railroad. Tanks are being constructed on this property and pipe lines extending from them to the pier which is shown on the topographic sheet. The face of the U. S. Alcohol Company's dock is erroneously shown on the City Topographic Survey. An extensive fill has been made off Fishing Point by the Mexican Petroleum Company which is shown on the topographic sheet. The shoreline is carried on the sheet to the Prudential Oil Company wharf as it was desired to locate the range established by them. This range is marked by triangulation day marks with red lights for night use.

Several range marks were located on this sheet. All were privately established marks, some of which it is believed were located with the assistance of the Lighthouse Service. The Maryland Drydock Company and Weyerhaeuser Timber Company ranges were obtained by setting up the planetable in the rear and on the range lines. These ranges as well as the Prudential Oil Company range are described in the Buoy and Light List of the Lighthouse Service. A range used by the Coast

Guard Service for entering Arundel Cove consists of a cluster of piles shown as signal Dolphin on the topographic sheet and the southeast corner of a building usually designated as the Coast Survey boathouse. Buoys consisting of short spars also mark the channel for entering. Another private range noted on the topographic sheet is one erected by Unger and Mahon marking a mid-channel course in Peach Orchard Creek. This range was to be fitted with lights but had not been installed at the time the survey was made. The location of two beacons on the property of the Mexican Petroleum Company was obtained by sextant angles in the progress of hydrographic work. These beacons do not seem to mark any channel line but from a study of the hydrography would seem to indicate the ^{eastern} ~~western~~ limit of dredged area. It is not believed to be necessary to describe the ranges used to mark the channels dredged and maintained by the U. S. Engineer Corps. The range for Curtis Bay channel was determined, however, because a study of the U. S. Engineer data showed that it did not follow the exact center line of the channel.

In compiling the sheets of the City Topographic Survey and the other sources of information, use was made of a pantograph in the Baltimore office of the U. S. Engineer Corps. When these reductions were applied to the hydrographic field sheet excellent agreement was found among the control points and when later checked by sextant positions in the hydrographic work no serious discrepancies were noted. On the various blueprints the control points are noted and it is believed that the information given there will be clearer than attempts to describe the points in this report. The planetable positions together with triangulated points served to furnish a very rigid system of control for the hydrography and it was possible to shift from one fix to another without noting any discrepancies in position. As much of the hydrographic work was done by means of sensitive ranges any shifting due to poor location of signals could be readily noted.

A list of planetable positions and statistics are furnished with this report. This list includes such features as may be deemed important for landmarks and from the topographic sheet, their relative importance can be determined.

R. J. Gault

Objects which can be used as landmarks are underlined

Planetable Positions
for
Baltimore Harbor

See letter 4065^a 485-1724

Object	Lat.	D.M.	Long.	D. P.	Height	Remarks
North *	39-14	1368	76-34	324	8	Corner of Pier
Near x	39-14	944	76-34	279	30	Small steel stack
Ty x	39-14	953	76-34	16	30	Flagpole, on cupola on end of F.S. Royster wharf
<u>Prud.</u> <u>Prudential Oil</u> <u>Co. Rear light</u>	39-14	734	76-33	1297	18	Front range light on Prudential Oil Co. Wharf
<u>Stack</u> <u>Prud. Oil Co.</u>	39-14	344	76-34	555	180	Rear range light Eastern one of two stacks of equal height
(Dolphin) *	39-14	428	76-33	1188	6	Pile dolphin, not named.
<u>Ocean</u>	39-13	1832	76-34	1021	100 ¹³⁵	Black elevated water tank Inter-ocean Oil Co.
<u>Wag</u>	39-13	1677	76-33	972	50	Small black steel stack.
<u>Red</u>	39-13	1527	76-34	208	60	Red water tank near Wagners Church.
<u>Mex</u>	39-13	1281	76-33	1424	90 ¹⁰⁰	Yellow brick chimney Mexican Petroleum Corp.
Mid *	39-13	1232	76-34	244	--	In definite object.
Yel 100	39-13	1199	76-34	502	40	Chimney on house. Yellow brick stack of
<u>Tex</u>	39-13	1207	76-34	167	150	U.S. Asphalt CO. (Texas 6
Sue +	39-13	1072	76-34	684	--	Hydrographic signal
Gasco +	39-13	959	76-34	89	20	Gasoline tank on end of dock
<u>Range Beacon</u>	39-13	898	76-33	1304	15	Mexican Petroleum Corp.
<u>Range Beacon</u>	39-13	842	76-33	1288	15	Mexican Petroleum Corp.
Der	39-13	849	76-33	1226	15	Frame of derrick on dock Mexican Petroleum Corp.
Band o /	39-13	798	76-34	1243	50	Red water tank , B. & O. R.R. Curtis Bay
<u>Do</u> /	39-13	752	76-34	1232	200	Brick chimney, B. & O. R.R.
<u>Front Range Lt.</u>	39-13	479	76-34	874	20	Curtis Bay Channel.
<u>Rear Range Lt.</u>	39-13	469	76-34	1223	30	Curtis Bay Channel.
<u>Copper</u>	39-13	308	76-34	1294	150	Brick chimney, Copper work U.S. Alcohol CO.
<u>Alco</u> now A	39-13	291	76-35	24	210	Chimney, U. S. Alcohol Co.
Yacht	39-13	187	76-34	547	30	Chimney on house

Planetable Positions for Baltimore Harbor,

2.

Object	Lat.	D.M.	Long.	D. P.	Height	Remarks
Sle ✓	39 -13	153	76 -34	645	8	Banner off end of small dock
Fin ✓	39 -13	159	76 -34	1091	6	Pile dolphin ✓ tilizer@
<u>Fert</u> ✓	39 -13	77	76 -35	126	60	Black water tank, Standard Fer covered.
Flood X	39 -12	1747	76 -34	1061	10	Banner signal, station not re*
<u>Chem</u>	39 -12	1738	76 -34	614	40	Pole on end of dock,
<u>Day</u>	39 -12	1694	76 -34	290	150	Chimney, Davidson Chem. Co.
Bow	39 -12	1700	76 -33	1216	30	Bow of stranded ship.
Meter	39 -12	1618	76 -34	481	60	Anemometer, top of building.
Branch	39 -12	1539	76 -34	1273	18	Banner signal
Sun	39 -12	1458	76 -34	478	60	Flagpole, top of building
Oco	39 -12	1265	76 -34	1289	5	Pile dolphin ✓ Elevated water tank, American Oil Co.
<u>Amo</u>	39 -12	1195	76 -35	55	90	
Curt	39 -12	1126	76 -34	1363	20	Frame of Derrick on dock
<u>Draw</u>	39 -12	848	76 -34	1265	30	Light, center of draw, Curtis creek
Trans.	39 -12	785	76 -34	1086	30	Transformer pole .
Wit	39 -12	731	76 -34	1074	10	Out house
Con	39 -12	586	76 -34	1426	40	Concrete distributing tower
<u>Ell</u>	39 -12	458	76 -35	68	50	Black water tank.
His	39 -12	459	76 -34	1284	10	Out house
Pyr	39 -12	446	76 -34	901	15	Peak of summer house
Bight	39 -12	393	76 -34	740	10	Banner
Holly	39 -12	271	76 -34	1173	10	Banner
<u>Mill</u>	39 -12	63	76 -34	639	20	Banner
<u>Sur</u>	39 -12	9	76 -33	1349	20	S.E. Cor. Coast Survey Boat - House
<u>Tank</u>	39 -12	0	76 -34	115	75	Water tank, Coast Guard Depot
Dol	39 -11	1420	76 -34	941	10	Pile dolphin
Bey	39 -11	1412	76 -33	1117	10	Banner
<u>Staff</u>	39 -11	1374	76 -34	219	40	Flagpole, Coast Guard depot

Plane table Positions for Baltimore Harbor.

3.

Object.	Lat.	D. M.	Long.	D. P.	Height	Remarks
Tip	39 -11	1363	76 -33	1248	10	Banner
Cup	39 -11	1343	76 -34	117	35	Cupola of Boat building shp
Stack	39 -11	1374	76 -34	1134	40	Small black steel stack
Fremont	39 -11	1339	76 -34	486	10	Banner, end of dock.
St	39 -11	1338	76 -33	1416	15	Banner
Dolphin	39 -11	1313	76 -34	29	10	Front range, Arundel Cove
Nan	39 -11	1220	76 -34	994	30	Searchlight,
Gon	39 -11	1210	76 -34	372	40	Smokestack, U.S.S. Algonquin
Not	39 -11	1190	76 -34	241	10	Trespass sign, C. G. Depot
Coast	39 -11	1167	76 -34	108	10	Banner
Ced	39 -11	1159	76 -34	974	30	Searchlight
Each	39 -11	1068	76 -34	947	30	Searchlight
Trip	39 -11	1001	76 -34	933	30	Searchlight
Res	39 -11	887	76 -34	165	10	Banner
Lit	39 -11	692	76 -34	846	30	Searchlight
Tree	39 -11	645	76 -34	290	10	Banner
Mo	39 -11	517	76 -34	783	20	Searchlight on pole
Ord	39 -11	958	76 -34	889	40	Small black steel stack
Boat	39 -11	452	76 -34	298	5	Stranded boat
Sign	39 -11	398	76 -34	781	5	Trespass sign.
Tel	39 -11	397	76 -34	806	10	Electric light pole
Ladder	39 -11	227	76 -34	535	20	Banner
ry	39 -11	227	76 -34	1142	10	Banner
Ad	39 -11	120	76 -34	606	10	Banner
Vania	39 -15	1616	76 -33	184	75	Elevated tank,
Trol	39 -15	1267	76 -32	1376	25	Banner
Penn	39 -15	1156	76 -33	508	100	Flagpole on top of elevator

Planetable Positions for Baltimore Harbor

Object	Lat.	D. M.	Long.	D. P. ^{4.}	Height	Remarks
Jump	39 -15	1068	76 -32	1044	20	Banner
River	39 -15	1010	76 -32	505	60	Black elevated tank, Riverview Park
Gate	39 -15	873	76 -32	207	18	Watchman's house on R.R. trestle
Cone	39 -15	805	76 -32	720	30	One of two conical cupola on building at Riverview Park
Theatre	39 -15	791	76 -32	477	30	Flagpole on open air theatre, Riverview Park
Ma	39 -15	720	76 -32	44	5	Corner of bulkhead.
Bright	39 -15	577	76 -31	1202	15	Flagpole ,(one of many)
Dun	39 -15	343	76 -31	681	75	Red water tank on property of Central Foundry Co, Dundalk
Miller	39 -15	349	76 -31	1246	5	Corner of Bulkhead.
Park	39 -15	179	76 -31	1165	5	Corner of Bulkhead.
Dalk	39 -14	1796	76 -31	689	50	Taller of two small steel stacks Abandoned plant, Russell & Burns.
Paint	39 -14	1175	76 -31	636	40	Small steel stack, end of wharf.
Rear, lt.	39 -14	928	76 -30	588	25	Range beacon, Unger & Mahon, ✓
Unger	39 -14	921	76 -30	521	20	Front range beacon, Unger & Mahon ✓
Cow	39 -14	695	76 -31	108	15	Sentry house on wharf.
Pop	39 -14	591	76 -30	252	15	Flagpole, Clement Cove.
Stem	39 -14	543	76 -30	107	20	Stem of stranded hulk.
Shear	39 -14	473	76 -30	177	40	Top of shear leg derrick.
Nato	39 -14	463	76 -31	68	10	Dock.
Fleet	39 -14	412	76 -30	271	75	Elevated gray tank, Emergency Fleet
Brick	39 -14	342	76 -30	839	100	Red brick chimney.
Germ	39 -14	224	76 -30	194	20	Flagpole
High	39 -13	1600	76 -30	1281	100	Middle and highest of three tanks Aluminum Ore Co.
re	39 -13	1277	76 -30	211	15	Trespass sign, end of dock.
Quat	39 -13	476	76 -30	11	20	Light standard and number. Pier No. 4 , Bethlehem Steel Co
Penwood	39 -12	1733	76 -28	581	100	Black elevated tank, conspicuous
Bath	39 -12	1481	76 -28	845	15	South gable of Bath-house.
Blast	39 -12	1482	76 -28	1380	100	Steel blast furnace stack

Planetable positions for Baltimore Harbor

Object	Lat.	D. M.	Long.	D. P.	Height	Remarks
Police	39 -12	1296	76 ^{5.} 29	97	20	Front range light, channel to ore dock ✓
Dive	39 -12	1276	76 -28	818	8	Diving Platform.
Track	39 -12	1250	76 -28	336	20	Banner
Lava	39 -12	1216	76 -28	593	--	Banner
Iron	39 -12	1079	76 -29	105	20	Outermost electric light pole on dock center line Sparrows Point
Bar	39 -12	1085	76 -29	820	150	Extreme Southwest brick stack,
Ran	39 -12	1625	76 -33	36	50	Elevated black water tank, Quarantine ing
Gld	39 -12	1479	76 -32	1341	30	Cupola of boathouse, center of build-
Arm	39 -12	1113	76 -32	119	30	Flagpole, Fort Armistead.
Sted	39 -12	1084	76 -32	584	--	Banner
More	39 -16	119	76 -36	220	200	Brick chimney, B. & O. R.R. roundhouse
Crook	39 -15	1594	76 -35	896	40	Square brick chimney
Beth	39 -15	1503	76 -35	159	125	Red brick chimney, Bethlehem Shpbdg. Co.
Hen	39 -15	1415	76 -34	1199	150	Yellow brick chimney, Fort McHenry.
Lez	39 -15	1437	76 -35	973	35	Cupola on building, end of dock.
West	39 -15	1350	76 -36	320	35	Gable of warehouse
Winan	39 -15	1242	76 -36	580	5	Corner of pile bulkhead
Ship	39 -15	1184	76 -35	506	--	Stack of ship lying at dock for dis- mantling.
Late	39 -15	1130	76 -36	1045	72	Brick chimney, Locke Insulator Co.
Tower	39 -15	818	76 -36	1423	50	Southeast operating tower for draw.
Loco	39 -15	756	76 -36	840	--	Southeast corner of locomotive shop.
Bar	39 -15	539	76 -36	886	15	Lighted beacon, Ferry Bar Point.
Club	39 -15	509	76 -36	1380	40	Cupola of clubhouse
Stand	39 -15	153	76 -36	1110	10	Judges' stand for boat races.
Run	39 -14	1657	76 -35	322	--	Banner

Planetable Positions for Baltimore Harbor

6

Object	Lat.	D. M.	Long	D. P.	Height	Remarks
Mar. 1	39 -14	1734	76 -34	1214	20	Maryland Drydock Front Range Beacon ✓
Land 1	39 -14	1680	76 -34	1238	25	Maryland Drydock Rear Range Beacon ✓
Dot 1	39 -14	1647	76 -34	944	20	Weyerhauser Timber Co. Front range beac ✓
Rear Range	39 -14	1610	76 -34	1008	25	Weyerhauser Timber Co. rear range beac ✓
te	39 -14	1596	76 -36	1044	15	Trolley Pole on curb line.
Ref. Mark	39 -14	1592	76 -35	18	10	City topo survey Ref. Mark, FURST, also traverse point
Del	39 -14	1554	76 -35	662	--	Banner
Tim	39 -14	1397	76 -34	1363	35	Red water tank, Maryland Drydock
Fish	39 -14	1393	76 -35	1238	--	Banner
Barge	39 -14	1366	76 -36	174	--	Banner
T.P.	39 -14	1248	76 -36	830	10	Traverse point, City Topo Survey
Mast	39 -14	1220	76 -36	639	--	Mast of dredge at mooring
Nel	39 -14	1192	76 -36	258	35	top of washing plant Electric light pole at Arundel Corp.
Meyer	39 -14	1180	76 -34	1351	100	Black tank, Weyerhauser Timber Co.
Shop	39 -14	1086	76 -36	488	30	Derrick at Shoppe Brick Co.
Hut	39 -14	1054	76 -36	147	8	House boat.
T.P.	39 -14	1010	76 -36	654	10	Traverse Point, City Topo Survey

Hydrographic Positions, Sextant Angles

						Branch
Ice	39 -12	1656	76 -35	423	40	Small steel stack, Ice plant, Cabin
Tan	39 -12	1482	76 -35	693	100	Conspicuous red tank, Tannery,
Chimney	39 -16	163	76 -33	343	100	Unknown identity
Colgate	39 -16	104	76 -32	803	100	Creek Chimney, Baltimore Distillery, Colgate
Labird	39 -16	460	76 -32	277	125	Black Tank, Camp Holabird <i>Not used. Does not agree with old position</i>
noe	39 -15	947	76 -32	147	--	Indefinite object <i>H.B.</i>
Float	39 -13	1116	76 -29	1142	--	Transfer slip, Lyods Point
Tras	39 -13	373	76 -30	10	15	Electric light pole and number, Pier 3
Slag	39 -12	1809	76 -29	1257	15	Banner, on corner of dock.
Coal	39 -12	1350	76 -29	1239	20	of coal pier Electric light pole, 15 feet from corner

AND REFER TO NO.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 23, 1924.

DESCRIPTIVE REPORT

To accompany Topographic Sheet of Northwest Harbor, or Inner Basin
of Baltimore

The limits of this sheet are approximately Latitude $39^{\circ}15'$
to Latitude $39^{\circ}18'$ and Longitude $76^{\circ}34'$ to $76^{\circ}38'$.

This sheet was executed mainly to furnish control for a
hydrographic survey of the Inner Basin and to locate other points
for use in orienting reductions made from blueprints.

A small amount of shoreline or outline of docks was executed
where differences were noted from the present edition of the chart.

The principal sources of information with respect to the
topography of the Inner Basin are contained in two blueprints obtained
from the Baltimore and Ohio Railroad. One blueprint is captioned as
Locust Point Yard and includes the south side of the basin on a scale
of one inch to two hundred feet. This print has been carefully checked
and corrections made are in all cases the result of actual field measure-
ments. The blueprint of the Baltimore and Ohio Railroad designated as
Sheet 3 takes in the whole of this portion of the harbor and much of the
adjacent territory on a scale of one inch to four hundred feet. Corre-
ctions have been made to this print which are the result of investigations
of data assembled by the U. S. Engineer Corps for a report on the Term-
inal Facilities of the Port of Baltimore. This data has been subject to
a rigorous check by the Baltimore office of the U. S. Engineers and many
field measurements by them and the field party of the Coast and Geodetic
Survey. In compiling the chart of Baltimore it is believed that this
report of the U. S. Engineer Corps will be valuable to the compiler.

Two blueprints of the Pennsylvania Railroad show their trackage
and the outline of the docks which they serve. These prints are not be-
lieved to be essential to the compilation of the chart as far as the out-
line of docks is concerned. Two small blueprints of the Bethlehem Company
show the plan of their two plants, one at Fort McHenry and the other called
the upper plant or usually Skinner's Yard. Corrections to these prints have
been made from information obtained from their engineering department.

The aerial photographs referred to in the report accompanying the
sheet covering the lower part of the bay are especially valuable in checking
the topography shown on the blueprints. In fact, they were used to more ad-
vantage in detecting changes or errors in the blueprints and chart.

A list of planetable positions which may be used for land marks
is attached to this report.

R. J. Child

Planetable Positions for Baltimore Harbor

1

4065^b

Object	Lat.	D. M.	Long.	D. P.	Height	Remarks
<u>St. Mary's</u>	39 -16	⁸⁷⁷ 829 ₁₃	76 -36	770	200	St. Mary's Star of the Sea, spire Riverside Ave & G Gittings
<u>Chimney</u>	39 -16	⁸⁷⁷ 903	76 -35	³⁶ 1043	225	Center of Building, American Sugar Refinery
"	39 -16	925	76 -35	⁸⁷⁷ 966	200	Easterly one of Twin stacks, Am. Sugar Refinery
"	39 -16	914	76 -35	988	200	Westerly one of twin stacks, Am. Sugar Refinery
<u>Tank</u>	39 -16	⁸ 1430	76 -35	1153	75	Top, Painted Lord Calvert Coffee (Levering & Co.)
<u>Tank</u> <u>Lak</u>	39 -16	428	76 -35	375	75	B. & O. R.R. Locust Point gration Service powerhouse
<u>Grant</u>	39 -16	40	76 -34	1234	50	Square brick chimney, U.S. Immi-
<u>Engineer</u>	39 -15	1822	76 -34	1058	25	Signal pole, U.S. Engineer Wharf Pier #3
<u>Ohio</u>	39 -16	385	76 -34	1267	12	Mooring bit; N.E. corner B. & O.
<u>Soco</u> <u>Tank</u>	39 -16	1073	76 -33	1397	225	Chimney, highest, Standard Oil Co
<u>Chimney</u>	39 -16	1162	76 -34	873	75	Elevated tank, south of building Tin Decorating Co.
<u>Chimney</u>	39 -16	1148	76 -34	855	100	Brick stack, Tin Decorating Co.
<u>Standard</u>	39 -16	934	76 -34	537	10	N.W. corner 60' dock Standard Oil Co.
<u>Young</u>	39 -16	1204	76 -34	1050	125	Brick chimney, J.S. Young Co.
<u>Plane</u>	39 -16	1497	76 -34	1215	80	Brick chimney, Canton Box Co.
<u>Boyer</u>	39 -16	1671	76 -35	18	75	Tank, S.E. corner of building, Boyer & Co.
<u>Cans</u>	39 -17	108	76 -35	268	100	Tank, Atlantic Can Cp.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

4065^a

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4065^a

State Maryland

General locality Patapsco River,

Locality Baltimore Harbor, ~~Fort McHenry to Sparrows Point~~

Chief of party R. J. Auld

Surveyed by R. J. Auld & L. M. Zeskind

Date of survey February - July, 1924

Scale 1: 10,000

Heights in feet above High Water Mark

Contour interval -- feet. No Contours

Inked by R. J. Auld Lettered by R. J. Auld

Records accompanying sheet (check those forwarded): Photographs, ☒

☒ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

17 sheets - Baltimore City Topographic Survey

1 " each Wn. Md. Ry. & Mex. Pet. Co. ; Prudential Oil Co.
Bethlehem Steel Co.

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4065^bState MarylandGeneral locality Baltimore HarborLocality Northwest Harbor ~~on Inner Basin~~Chief of party R. J. AuldSurveyed by R. J. AuldDate of survey August 1924Scale 1-10,000Heights in feet above High water markContour interval — feet. No contoursInked by R. J. Auld Lettered by R. J. AuldRecords accompanying sheet (check those forwarded): ☒ Photographs,☒ Descriptive report; Horizontal angle books, Field computations,Data from other sources affecting sheet B. & O. R.R. - Baltimore and vicinity - Sheet #3.B. & O. R.R. Locust Point Yard. Pennsylvania R.R. Track Layout - President St to Clinton St. -Pennsylvania R.R. Track Layout - Orangeville to Canton wharfs. Bethlehem Ship building Corp.Remarks: Plan of Lower Plant or Baltimore Drydocks, Fort M'Henry. Bethlehem Ship building Corp. Upper plant or Skinner's Shipyard.

Corrections noted on Blueprints were obtained from field measurements or data incorporated in report on Terminal facilities, Baltimore, compiled by U.S. Engineer Corp