

117833 61-25A

All curves of depth are referred to the plane of mean low water.

Mean Low Water line shown thus

6 ft curve of depth shown thus

12 ft

24 ft

30 ft

35 ft

Pierhead Line shown thus and denotes the limit to which open pile structures may be built.

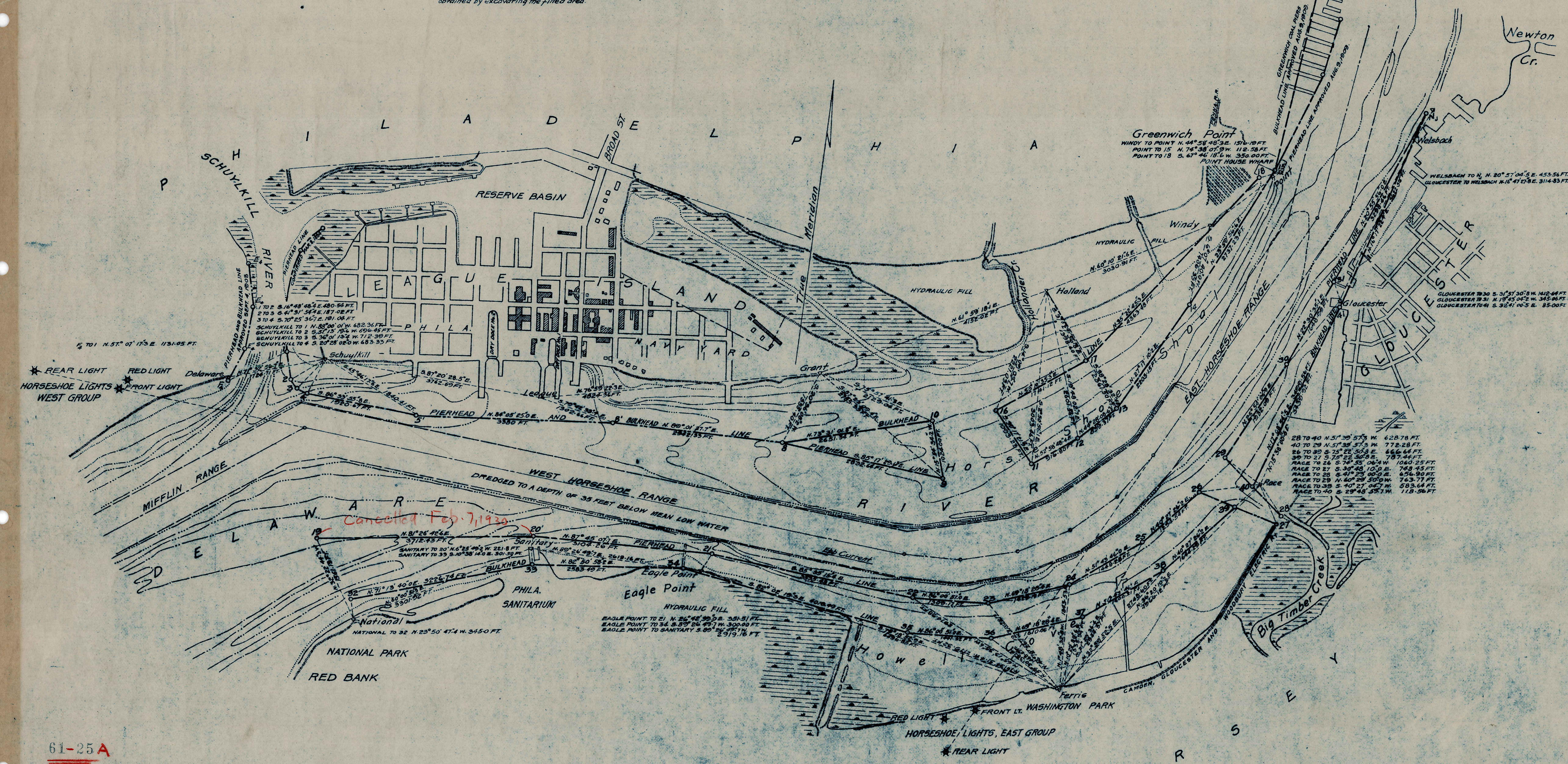
Bulkhead Line shown thus and denotes the limit to which solid filled structures may be carried.

Pierhead and Bulkhead Line shown thus and denotes the limit to which either solid filled or open pile structures may be built.

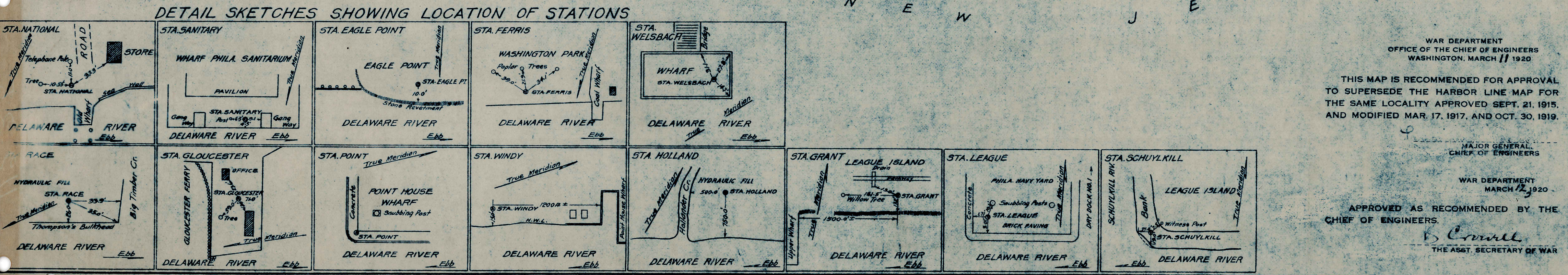
Note: Should any riparian owner desire to make solid fill out to the pierhead line in front of his property along the whole or a portion of his frontage, the work must not be undertaken until he has obtained a War Department permit therefor. Such permit will be revocable and will be subject to the condition that any slips needed in the future must be obtained by excavating the filled area.

Stations Schuylkill, Grant, Holland, National, Sanitary, Eagle Point, Ferris and Race are concrete monuments 6 inches in diameter with galvanized iron caps marked thus (S), stations Windy, Gloucester, and Welsbach are concrete monuments faced with bronze discs, 4 inches in diameter, marked "United States Engineer Dept.", station Point is a bronze disc as described above set in concrete bulkhead at lower outer corner of Point House Wharf, station League is a mark cut in brick paving near the lower outer corner of the wharf on lower side of Dry Dock No. 1, at Philadelphia Navy Yard; all stations are set flush with the surface of the ground.

61-25A



COURSE	BEARING	DISTANCE
1 to 2	S. 76° 43' 48" E.	480.54 ft.
2 to 3	S. 47° 13' 34" E.	187.02 ft.
3 to 4	S. 70° 23' 34" E.	191.08 ft.
4 to 5	S. 66° 33' 33" E.	192.67 ft.
5 to 6	N. 84° 05' 25" E.	328.00 ft.
6 to 7	N. 82° 01' 27" E.	294.33 ft.
7 to 8	S. 85° 17' 20" E.	283.64 ft.
8 to 9	N. 15° 54' 34" E.	1024.00 ft.
9 to 10	S. 39° 17' 21" E.	1038.33 ft.
10 to 11	N. 32° 58' 43" E.	916.89 ft.
11 to 12	N. 44° 28' 08" E.	899.37 ft.
12 to 13	N. 27° 17' 10" E.	2203.15 ft.
13 to 14	N. 28° 50' 38" E.	2737.23 ft.
14 to 15	N. 73° 31' 01" E.	2631.34 ft.
15 to 16	N. 33° 10' 35" E.	1741.12 ft.
16 to 17	N. 32° 22' 43" E.	4363.48 ft.
17 to 18	N. 81° 26' 42" E.	3712.43 ft.
18 to 19	N. 87° 45' 07" E.	3104.26 ft.
19 to 20	S. 85° 35' 15" E.	3533.48 ft.
20 to 21	N. 86° 00' 51" E.	1309.17 ft.
21 to 22	N. 69° 18' 28" E.	1429.10 ft.
22 to 23	N. 51° 43' 46" E.	1449.23 ft.
23 to 24	N. 40° 27' 24" E.	1294.54 ft.
24 to 25	S. 75° 22' 50" E.	646.64 ft.
25 to 26	S. 75° 22' 50" E.	787.44 ft.
26 to 27	N. 51° 30' 57" E.	628.78 ft.
27 to 28	N. 51° 30' 57" E.	772.28 ft.
28 to 29	N. 28° 51' 04" E.	1953.33 ft.
29 to 30	N. 22° 30' 27" E.	1449.99 ft.
30 to 31	N. 20° 55' 06" E.	3299.46 ft.
31 to 32	N. 71° 13' 40" E.	3226.74 ft.
32 to 33	N. 82° 50' 58" E.	2593.40 ft.
33 to 34	S. 82° 02' 10" E.	4010.49 ft.
34 to 35	N. 86° 00' 51" E.	1441.32 ft.
35 to 36	S. 38° 01' 18" E.	712.30 ft.
36 to 37	N. 31° 43' 46" E.	1400.21 ft.
37 to 38	N. 40° 27' 24" E.	1644.29 ft.
38 to 39	N. 77° 08' 54" E.	3499.56 ft.
39 to 40	N. 76° 17' 22" E.	3422.56 ft.
40 to 41	N. 88° 00' 01" E.	682.36 ft.
Schuylkill to 1	S. 51° 13' 12" E.	696.45 ft.
Schuylkill to 2	S. 38° 01' 18" E.	712.30 ft.
Schuylkill to 3	S. 20° 28' 02" E.	683.33 ft.
Schuylkill to 4	S. 65° 46' 17" E.	1840.41 ft.
League to 8	S. 70° 42' 32" E.	1302.66 ft.
Grant to 8	S. 20° 36' 08" E.	1335.40 ft.
Grant to 9	S. 57° 23' 08" E.	2735.33 ft.
Grant to 10	S. 75° 57' 41" E.	8124.04 ft.
Holland to 11	S. 21° 20' 25" E.	3023.46 ft.
Holland to 12	S. 10° 48' 02" E.	2601.56 ft.
Holland to 13	S. 38° 28' 32" E.	2361.50 ft.
Windy to 14	S. 6° 07' 40" E.	1406.33 ft.
Point to 15	N. 74° 38' 07" E.	112.58 ft.
Holland to 16	S. 14° 09' 03" E.	2221.03 ft.
Holland to 17	S. 57° 23' 08" E.	1763.60 ft.
Point to 18	S. 67° 46' 17" E.	3500.01 ft.
National to 19	N. 32° 22' 43" E.	1461.13 ft.
Sanitary to 20	N. 6° 25' 43" E.	221.80 ft.
Eagle Point to 21	N. 26° 42' 38" E.	351.51 ft.
Ferris to 22	N. 65° 13' 35" E.	2974.98 ft.
Ferris to 23	N. 46° 12' 26" E.	1932.82 ft.
Ferris to 24	N. 74° 38' 07" E.	1433.23 ft.
Ferris to 25	N. 21° 20' 25" E.	683.33 ft.
Race to 26	S. 74° 55' 06" E.	1060.25 ft.
Race to 27	S. 30° 48' 10" E.	748.48 ft.
Race to 28	S. 41° 28' 00" E.	656.00 ft.
Race to 29	N. 60° 20' 50" E.	763.77 ft.
Gloucester to 30	S. 31° 37' 30" E.	1472.44 ft.
Gloucester to 31	N. 19° 43' 04" E.	345.04 ft.
Welsbach to N.	N. 20° 57' 04" E.	453.36 ft.
National to 32	N. 23° 50' 41" E.	945.00 ft.
Sanitary to 33	S. 10° 36' 12" E.	601.50 ft.
Eagle Point to 34	S. 80° 26' 44" E.	300.00 ft.
Ferris to 35	N. 76° 34' 31" E.	2779.33 ft.
Ferris to 36	N. 30° 30' 30" E.	1448.89 ft.
Ferris to 37	N. 10° 26' 32" E.	1353.91 ft.
Ferris to 38	N. 32° 50' 58" E.	2448.60 ft.
Race to 39	S. 40° 27' 24" E.	593.64 ft.
Race to 40	S. 24° 48' 54" E.	178.56 ft.
Gloucester to 41	S. 32° 41' 00" E.	85.00 ft.
Schuylkill to League	S. 87° 20' 25" E.	9782.89 ft.
League to Grant	N. 76° 13' 35" E.	4923.36 ft.
Grant to Holland	N. 61° 50' 18" E.	4158.02 ft.
Holland to Windy	N. 60° 10' 21" E.	3030.91 ft.
Windy to Point	N. 44° 58' 43" E.	1516.19 ft.
National to Sanitary	N. 60° 00' 31" E.	3301.92 ft.
Sanitary to League	N. 89° 14' 29" E.	2913.36 ft.
Eagle Point to Ferris	S. 70° 18' 52" E.	6426.33 ft.
Ferris to Race	N. 36° 20' 10" E.	4066.12 ft.
Race to Gloucester	N. 15° 38' 00" E.	3439.92 ft.
Gloucester to Welsbach	N. 16° 47' 27" E.	3174.89 ft.
Sanitary to Schuylkill	N. 89° 14' 29" E.	2913.36 ft.
Delaware to Schuylkill	N. 71° 32' 58" E.	1784.71 ft.
to 1	N. 37° 07' 17" E.	1131.05 ft.



WAR DEPARTMENT
OFFICE OF THE CHIEF OF ENGINEERS
WASHINGTON, MARCH 11 1920

THIS MAP IS RECOMMENDED FOR APPROVAL TO SUPERSEDE THE HARBOR LINE MAP FOR THE SAME LOCALITY APPROVED SEPT. 21, 1915, AND MODIFIED MAR. 17, 1917, AND OCT. 30, 1919.

MAJOR GENERAL
CHIEF OF ENGINEERS

WAR DEPARTMENT
MARCH 12 1920

APPROVED AS RECOMMENDED BY THE
CHIEF OF ENGINEERS

THE ASST. SECRETARY OF WAR

DELAWARE RIVER
HARBOR LINES
PENNSYLVANIA SHORE FROM MOUTH OF SCHUYLKILL RIVER TO GREENWICH POINT
NEW JERSEY SHORE FROM RED BANK TO NEWTON CREEK

61-25A

SCALE: 1 IN. = 1000 FT.

U.S. ENGINEER OFFICE, PHILA., PA. FEB. 1920

SUBMITTED
H. B. L. L. L.
ASST. ENGINEER

LIBT. COLONEL, CORPS OF ENGINEERS, U.S.A.

TRANSMITTED WITH LETTER

DATED 1920

FILE NO. 1-4977