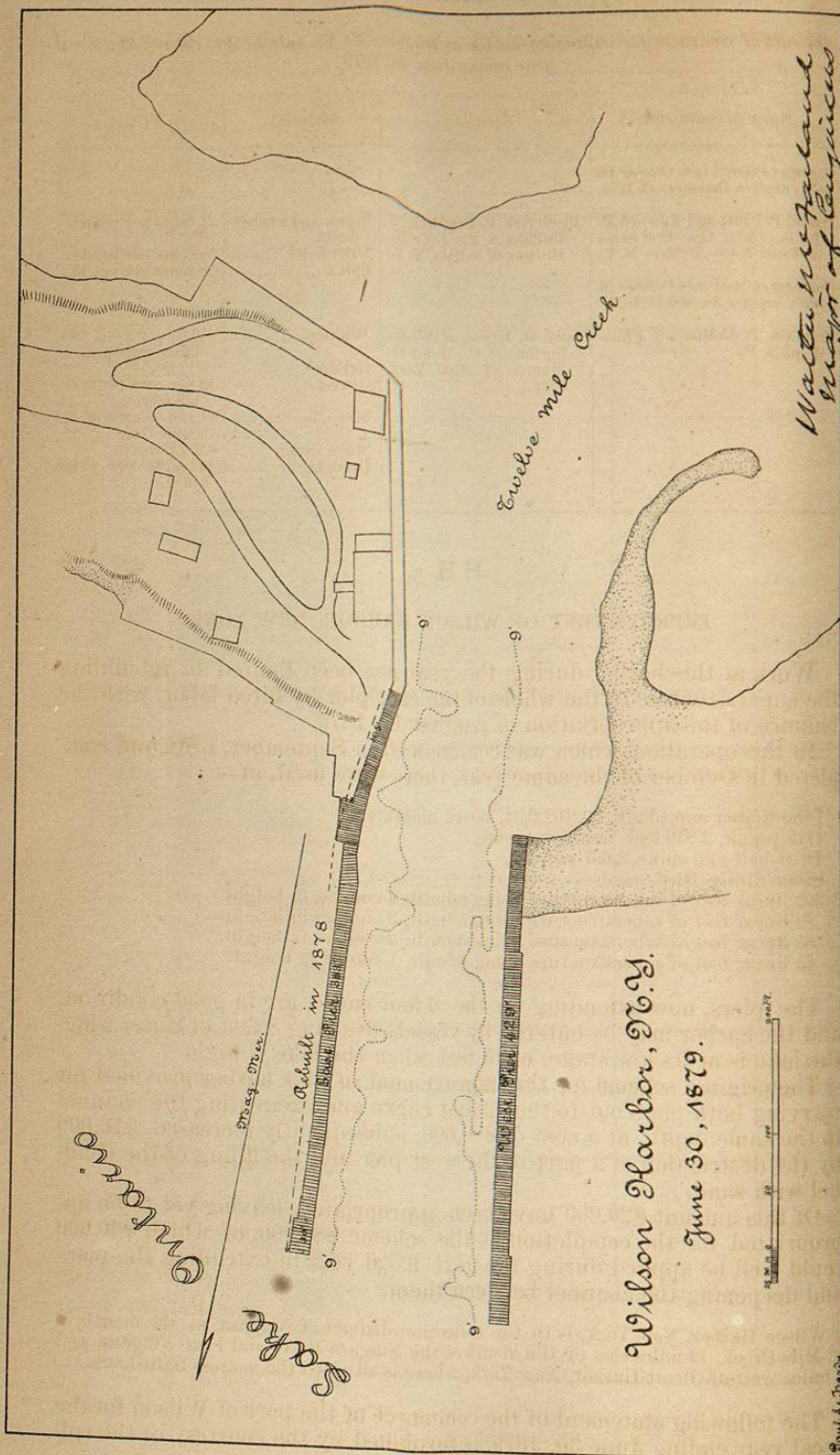


Abstract of proposals for the extension of Buffalo Breakwater, &c.—Continued.

Number.	Name and address of bidder.	Bolts, screw and washer, approximate quantity, 2,870 pounds.	Bolts, drift, approximate quantity, 250,000 pounds.	Spike, approximate quantity, 7,000 pounds.	Total.
1	Pratt & Co., Buffalo, N. Y. Guarantors: F. L. Danforth, Buffalo, N. Y., David E. Brown, Buffalo, N. Y.	At 2 $\frac{3}{4}$ cents per lb., \$78.93.	At 1 $\frac{1}{2}$ cents per lb., \$4,375.	At 2 $\frac{3}{4}$ cents per lb., \$192.50.	\$4,646 43
2	McIntosh, Good & Co., Cleveland, Ohio. No guarantors given.	At 2 $\frac{7}{8}$ cents per lb., \$77.49.	At 2 cents per lb., \$5,000.	At \$2.75 per lb., \$192.50.	5,269 99
3	Cleveland, Brown & Co., Cleveland, Ohio. Guarantors: Frank Wilson, Cleveland, Ohio, William M. Maxon, Cleveland, Ohio.	At \$2.89 per lb., \$82.94.	At \$2.19 per lb., \$5,475.	At \$2.79 per lb., \$195.30.	5,753 24
4	J. W. Cummings and M. W. Cummings, Edenburg, Pa. Guarantors: Michael Brennan, Edenburg, Pa., E. M. Brown, Edenburg, Pa.	.....	.....	.....	40,208 48
5	Franklin B. Colton, Philadelphia, Pa. Guarantors: John O. Evans, Washington, D. C., John G. Moore, New York City.	.....	.....	.....	43,038 15
6	S. Gibson, Buffalo, N. Y. Guarantors: John H. Montgomery, Buffalo, N. Y., Samuel McCutcheon, Buffalo, N. Y.	.....	.....	.....	43,502 31
7	Archibald McArthur, Chicago, Ill., and Orville J. Jennings, Dunkirk, N. Y. Guarantors: George M. Case, Fulton, N. Y., Willard Johnson, Fulton, N. Y.	.....	.....	.....	47,314 88
8	D. E. Bailey, Buffalo, N. Y. Guarantors: George Talbot, Buffalo, N. Y., George D. Briggs, Buffalo, N. Y.	.....	.....	.....	47,415 96
9	Hickler & Arnold, Buffalo, N. Y. Guarantors: Isaac Holloway, Buffalo, N. Y., C. J. Wells, Buffalo, N. Y.	.....	.....	.....	48,253 84
10	J. A. Nichols, Syracuse, N. Y. Guarantors: Cephas C. Barker, Syracuse, N. Y., Nelson L. Williams, De Witt, N. Y.	.....	.....	.....	48,935 77
11	Farris & Garfield, Painesville, Ohio. Guarantors: Daniel Warner, jr., Painesville, Ohio, Julius E. French, Cleveland, Ohio.	.....	.....	.....	48,954 16
12	C. E. Williams, Buffalo, N. Y. Guarantors: William J. Williams, Buffalo, N. Y., D. McNaughton, Buffalo, N. Y.	.....	.....	.....	49,252 00
13	A. F. Bennett, Buffalo, N. Y. Guarantors: Andrew Spalding, Buffalo, N. Y., Lewis J. Bennett, Buffalo, N. Y.	.....	.....	.....	49,299 52
14	E. F. DeGraw, Fulton, N. Y. Guarantors: Willard Johnson, Fulton, N. Y., S. B. Whitaker, Fulton, N. Y.	.....	.....	.....	50,373 44
15	Walter Doty, Fort Edward, N. Y. Guarantors: Anson Bangs, Brooklyn, N. Y., John Doty, New York City.	.....	.....	.....	60,489 76
16	Charles H. Raynor, Syracuse, N. Y. Guarantors: Henry D. Denison, Syracuse, N. Y., A. Cadwell Belden, Syracuse, N. Y.	.....	.....	.....	62,717 72



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

Abstract of contracts for improving harbor at Buffalo, N. Y., entered into during the fiscal year ending June 30, 1879.

Name of contractor.	Sureties.	Material.	Price.
<i>Contract entered into October 18, 1878; expires December 15, 1878.</i>			
Pascal P. Pratt and Edward P. Beals, under the firm name of Pratt & Co., Buffalo, N. Y.	Frederick L. Danforth, of Buffalo, N. Y.; John M. Horton, of Buffalo, N. Y.	Screw and washer bolts. Drift-bolts Spike	2½ cents per pound. 1½ cents per pound. 2½ cents per pound.
<i>Contract entered into October 29, 1878; expires August 31, 1879.</i>			
Franklin B. Colton, of Philadelphia, Pa.	John O. Evans, of Washington, D. C.; John G. Moore, of New York City.	White pine Hemlock..... Gravel..... Stone, broken..... Stone riprap Dredging	\$15.60 per 1,000 feet, board measure. Do. \$5 per cord of 128 cubic feet. \$4.10 per cord of 128 cubic feet. \$1.17 per ton. 40 cents per cubic yard.

H H 3.

IMPROVEMENT OF WILSON HARBOR, NEW YORK.

Work at this harbor during the year has been limited to rebuilding the superstructure of the whole of the east pier by hired labor, with the balance of the appropriation of August 14, 1876.

In this operation, which was commenced in September, 1878, and completed in October of the same year, there were used, of—

- Pine timber and plank, 69,918 feet, board measure.
- Oak plank, 3,840 feet, board measure.
- Drift-bolt and spike, 2,697 pounds.
- Stone filling, 56½ cords.
- 302 linear feet of superstructure being rebuilt, 4 courses in height.
- 80 linear feet of superstructure being rebuilt, 3 courses in height.
- 65 linear feet of superstructure being rebuilt, 2 courses in height.
- 65 linear feet of superstructure being rebuilt, 1 course in height.

The piers, now extending to the 8-foot curve, are in good condition, and the harbor may be entered by vessels drawing 8 feet of water when the lake is at its low stage, or 10 feet when the lake is high.

The original scheme for the improvement of this harbor provided for carrying both piers out to the 12-foot curve and excavating the channel to the same depth, at a cost of \$90,000, subsequently increased \$10,000 by the destruction of a part of the west pier and the filling of the channel with sand.

Of this amount \$20,000 have been appropriated, leaving yet to be appropriated for the completion of the scheme \$80,000, of which \$30,000 could well be applied during the next fiscal year in extending the piers and deepening the channel between them.

Wilson Harbor, New York, is in the collection-district of Niagara, at the mouth of 12-Mile Creek, 12 miles east of the mouth of the Niagara River and Fort Niagara, and 6 miles west of Olcott Harbor, New York, where is situated the nearest light-house.

The following statement of the commerce of the port of Wilson for the fiscal year ending June 30, 1879, is furnished by the courtesy of the col-

lector of customs from the records of the custom-house and Suspension Bridge, New York:

1. Revenue from custom	\$710 23
2. Value of imports	\$3,531 00
3. Value of exports	\$4,220 00
4. Number of vessels cleared	27
5. Their tonnage	1,686
6. Number of vessels entered	24
7. Their tonnage	1,418
8. Probable number of arrivals and departures not entering or clearing	30
9. Chief articles of commerce: lumber, fruit, grain.	

Money statement.

July 1, 1878, amount available	\$3,428 73
July 1, 1879, amount expended during fiscal year	\$1,030 87
July 1, 1879, outstanding liabilities	1,499 45
	2,530 32
July 1, 1879, amount available	898 41
Amount (estimated) required for completion of existing project	80,000 00
Amount that can be profitably expended in fiscal year ending June 30, 1881	30,000 00

HH 4.

IMPROVEMENT OF OLCOTT HARBOR, NEW YORK.

Nothing has been done here during the year, no funds being available. The original project of improvement provides for the extension of each pier 100 feet further, and the removal from the channel of 2,600 cubic yards of sandstone and 6,000 cubic yards of sand, clay, and gravel, and the removal of 2,500 cubic yards of similar material from the inner harbor, which is the mouth of Eighteen Mile Creek. The estimated cost of this is \$10,000, which could be profitably expended during the next fiscal year.

Olcott Harbor, New York, is in the collection-district of Niagara, at the mouth of Eighteen Mile Creek, 18 miles east of the mouth of the Niagara River and Fort Niagara. It is lighted by a fixed white light of the sixth order, placed near the head of the west pier.

The following statement of the commerce of the port is furnished through the courtesy of the collector of customs, from the records of the custom-house at Suspension Bridge:

1. Revenue from customs during fiscal year	\$163 95
2. Value of imports	\$427 00
3. Value of exports	\$9,338 34
4. Number of vessels cleared	70
5. Their tonnage	9,564
6. Number of vessels entered	70
7. Their tonnage	9,584
8. Probable number of other vessels arriving and departing	12
9. Chief articles of commerce, fruit.	

Money statement.

Estimated amount for completion of scheme of improvement	\$10,000
Amount that can be profitably expended in fiscal year ending June 30, 1881	10,000

HH 5.

IMPROVEMENT OF OAK ORCHARD HARBOR, NEW YORK.

The only work done here during the year was the repair of a small breach at the northeast corner of the west pier, caused by a vessel running into it. In this work there were expended, of—

White-pine lumber	feet, board measure	996
Drift-bolts and spike	pounds	289
Stone filling	cords	2

The scheme of improvement originally adopted for this harbor was essentially completed a few years ago, and the work which it will need in future is the repair of the piers as they decay and the clearing of the channel as it shoals.

The amount needed for this purpose next year is \$1,000.

Oak Orchard Harbor, New York, lies in the collection-district of Genesee, nearly midway between the mouths of the Genesee and the Niagara Rivers, being about 30 miles from the former and 45 miles from the latter, forming the only good harbor of refuge between these points for vessels drawing as much as 11 feet water. It is lighted by a fixed white light of the fourth order, placed at the end of the west pier.

The unexpended balance of the appropriation available for this work will be applied during the present season to the repair of the shore end of the east pier, and the removal of a gravel bar, which has been formed by the wash of the lake water through the damaged end.

The following statement of the commerce of the port for the fiscal year is furnished by the courtesy of the collector of customs at Rochester, from the records of the custom-house:

1. Revenue from customs	\$1,598 98
2. Value of imports	\$7,200 00
3. Value of exports	\$11,100 00
4. Number of vessels cleared	10
5. Their tonnage	757
6. Number of vessels entered	13
7. Their tonnage	1,036
8. Probable number of other vessels arriving and departing	50
9. Chief articles of commerce, lumber, grain, fruit.	

Money statement.

July 1, 1878, amount available	\$2,426 66
Amount appropriated by act approved March 3, 1879	1,000 00
July 1, 1879, amount expended during fiscal year	\$3,426 66
July 1, 1879, amount available	136 35
July 1, 1879, amount available	3,290 31
Amount (estimated) required for completion of existing project	1,000 00
Amount that can be profitably expended in fiscal year ending June 30, 1881	1,000 00

HH 6.

IMPROVEMENT OF CHARLOTTE HARBOR, NEW YORK.

With the exception of a few slight repairs, nothing has been done at this harbor during the past year. The small balance now available will be applied to the making of further repairs to both piers.

The original scheme for the improvement of this harbor was completed

in 1870, since which time only such amounts of money have been called for as were necessary for annual repairs. But the superstructures of both piers are so rapidly decaying that they will have to be entirely rebuilt from the water line within the next five years.

The lengths of these piers are as follows:

	Feet
West pier.....	3,000
East pier.....	2,425

But since they were built the shore line has advanced to such an extent that the inner parts of each are protected from wave action, and it is unnecessary, therefore, to rebuild more than 1,650 feet of the west superstructure and 2,050 feet of the east superstructure, the estimated cost of which is \$45,000.

The parts of these piers which are backed by private lands are used by the land-owners for their own purposes, and as public or private wharves, and the government should therefore expend no more money upon them, but should leave their repairs to be made by the persons who are benefited by their use.

A part of the superstructure now requires rebuilding, and it is recommended that an annual appropriation of \$9,000 be made until the amount needed for the rebuilding of the whole of it is secured. This would enable the rebuilding to keep pace with the annual decay.

Charlotte Harbor is in the collection-district of Genesee, and is the port of the city of Rochester, 7 miles distant. It is formed by the mouth of the Genesee River, and lies about midway between Oswego and the mouth of the Niagara River. It is lighted by a fixed white light of the fourth order on the bluff, and by a fixed white light of the sixth order at the lake end of the west pier.

The following statement of the commerce of the port for the fiscal year is furnished from the records of the custom-house at Rochester, through the courtesy of the collector:

1. Revenue from customs.....	\$23,191 23
2. Value of imports.....	\$175,316 00
3. Value of exports.....	\$278,236 00
4. Number of vessels cleared.....	502
5. Their tonnage.....	106,052
6. Number of vessels entered.....	522
7. Their tonnage.....	103,627
8. Probable number of other vessels arriving and departing.....	190
9. Chief articles of commerce, live stock, lumber, grain, coal, iron ore.	

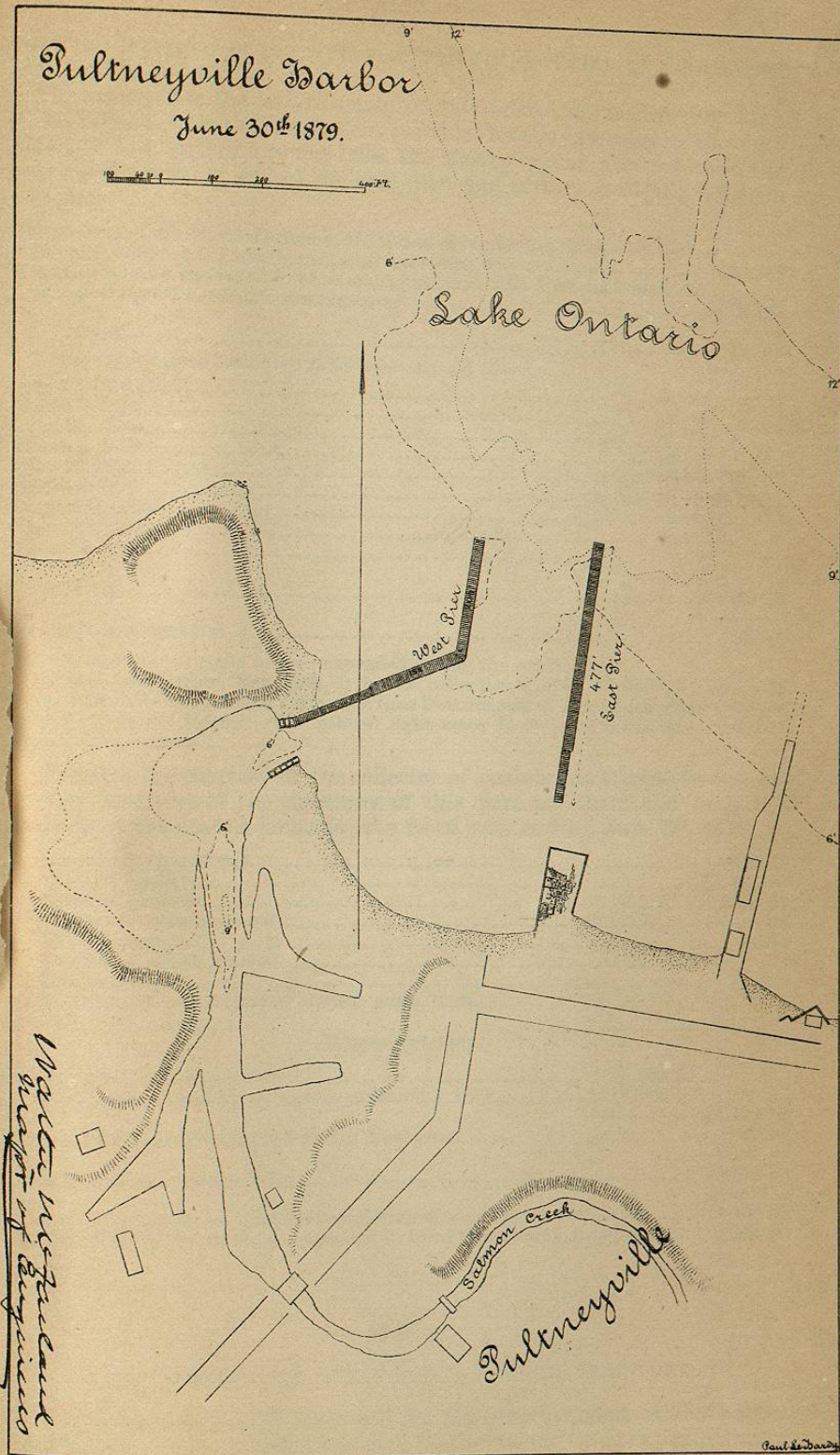
Money statement.

July 1, 1878, amount available.....	\$1,000 00
Amount appropriated by act approved March 3, 1879.....	1,000 00
	\$2,000 00
July 1, 1879, amount expended during fiscal year.....	41 92
	1,958 08
July 1, 1879, amount available.....	1,958 08
Amount (estimated) required for rebuilding and repairs.....	45,000 00
Amount that can be profitably expended in fiscal year ending June 30, 1881.....	9,000 00

HH 7.

IMPROVEMENT OF PULTNEYVILLE HARBOR, NEW YORK.

No work has been done here during the past year, but arrangements are now made to apply the available funds, before the present working season is over, to the closing of the opening at the inner end of the east



pier, the extension of the west pier, and the dredging of the channel between the piers.

The scheme for the improvement of this harbor, as modified by Maj. J. M. Wilson, Corps of Engineers, provides for the extension of the west pier 210 feet further into the lake, the closing of the gap between the shore and the inner end of the east pier, and further dredging between the piers.

The amount of the original estimate of the cost of improving this harbor under the plan adopted and now in course of execution was..... \$59,000
 But the dredging was found to be so much harder in 1875 than had been anticipated that the estimate was increased..... 12,000

Total 71,000

The appropriations have been as follows: By act of—

July 11, 1870	\$5,000
March 3, 1871	5,000
June 10, 1872	10,000
March 3, 1873	10,000
June 23, 1874	10,000
March 3, 1875	10,000
August 14, 1876	3,000
June 18, 1878	5,000
March 3, 1879	4,000
Total	62,000

Yet to be appropriated 9,000

the whole of which could be well expended during the coming year.
 Pultneyville Harbor, New York, is in the collection-district of Genesee, about 40 miles west of Oswego, and a little more than 20 miles east of the mouth of the Genesee River. It is not lighted. The nearest light-house is at Great Sodus Bay, about 12 miles to the eastward.

Through the courtesy of the collector of customs at Rochester the following statistics of the commerce of this port are furnished from the records of the custom-house for the fiscal year ending June 30, 1879:

1. Revenue from customs.....	\$940 39
2. Value of imports.....	\$5,445 00
3. Value of exports	\$374 00
4. Number of vessels cleared.....	32
5. Their tonnage	1,254
6. Number of vessels entered	33
7. Their tonnage	1,333
8. Chief articles of commerce, lumber, grain, fruit.	

Money statement.

July 1, 1878, amount available.....	\$5,623 51
Amount appropriated by act approved March 3, 1879.....	4,000 00
July 1, 1879, amount expended during fiscal year.....	\$9,623 51 47 08
July 1, 1879, amount available	9,576 43
Amount (estimated) required for completion of existing project.....	9,000 00
Amount that can be profitably expended in fiscal year ending June 30, 1881.	9,000 00

H H 8.

IMPROVEMENT OF GREAT SODUS HARBOR, NEW YORK.

The scheme originally proposed for the improvement of this harbor was carried out many years ago, and all the money since expended upon