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Yokohama Harbor

Design for a Concrete Pier commencing from West of English Wharves and running out in NE direction towards Arthur's spit Buoy

Estimate

Total Length of Pier 5,000 Feet Average depth of water at Low Water Spring Tides 24' 6"

Machinery same as former Est. 55,460.00

Deduct 25% for value after completion of works. 13,865.00

41,595.00

Temporary Erection same as former Design - 121,615.00

Deduct 25% for value after completion of work 30,403.75

91,211.25

Pier

Dredging trenches for foundations and depositing stuff in shallow ground off Bunker 11,700.00

158,000 cy Liquid concrete in walls at \$2.25 355,500.00

Concrete in Blocks on Pier at \$1.25 27,157.00

8" below roadway 17,250.00

55,500 cy Rubble backing at \$1.30 72,150.00

181,000 cy Filling in center with earth at 40 72,400.00

Asphalt capes & Formers Pavements

Roaming pails. Cement plaster 223,290.00

Wood & Iron Work 26,790.00

Extra Labour 14,000.00

820,237.00

= \$492.15 per lin yard

Carry Over -

\$953,043.25



Brought Forward.

\$ 953,043 25

Rail way along whole length of
Pier and to Custom House
Double Line -

Length 2,200 yds. at \$ 8.91.

19,602 00

Captains Lighthouse Moorings
Buoys &c.

17,200 00

New Ground at end of pier

140,000 cy 1500 feet x 200 feet at 25c. 35,000 00

700 l. y New facing wall for 50. at 50c 3,500 00

Roads &c. 10,000 00

48,500 00

European Superintendence

Time for completion of work
being 5 years say -

70,000 00

Years -

\$ 1,108,345 25

Add 5% for contingencies

55,417 25

Total Fees 1,163,762.50

Probable cost of Breakwater which
may be required at North end of Pier, on
shallow spit near Managawa Fort

170,000 cy Filling in earth at 25c. \$ 42,500

40,000 cy Rough stone face wall at 2.50 100,000

Total Fees 142,500

Yokohama

23rd Nov 1874

Henry Brewster