

**BIENNIAL REPORT OF THE BOARD OF
STATE HARBOR COMMISSIONERS
FOR THE TWO FISCAL YEARS.
COMMENCEING JULY 1, 1884, AND
ENDING JUNE 30, 1886**

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Biennial report of the Board of State Harbor Commissioners for the two fiscal years.
Commencing July 1, 1884, and Ending June 30, 1886 by Various

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VARIOUS

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BIENNIAL REPORT

OF THE

Board of State Harbor Commissioners

FOR THE TWO FISCAL YEARS

Commencing July 1, 1884, and Ending June 30, 1886.



SACRAMENTO, CAL.

STATE OFFICE.....JAMES J. AYERS, SUPT. STATE PRINTING.

1886.

REPORT.

To Hon. GEORGE STONEMAN, Governor of the State of California:

In compliance with Sections 332 and 2537 of the Political Code, the Board of State Harbor Commissioners submits its report to you, for the two fiscal years ending June 30, 1886.

The details of the amount of money received and disbursements made by the Board appear in the tabular statements annexed hereto, and the following is a summary of them:

RECEIPTS.	
From dockage.....	\$363,066 12
From tolls.....	343,108 72
From rents and special privileges (including all monthly charges).....	259,006 60
From sale of old material.....	996 80
From dredging.....	5,904 33
From miscellaneous sources (Oregon Improvement Company, in lieu of structures, fishermen's wharf, etc.).....	12,471 57
Total receipts.....	\$984,553 14
Amount drawn from San Francisco Harbor Improvement Fund.....	666,539 02
Total.....	\$1,651,092 16

DISBURSEMENTS.	
Salaries of Commissioners, Secretaries, Engineers, Draughtsman, Attorney, Wharfingers, Collectors, Watchmen, and Clerks in Secretary's office.....	\$196,902 33
Construction, including building of new wharves, sheds, sewers, and roadways; maintenance and repairs of outer half of waterfront streets, old wharves, buildings, roadways, and seawall, and furniture of wharf offices.....	446,219 14
Wharf cleaning.....	20,968 15
Dredging.....	98,934 20
Seawall construction.....	276,863 72
Filling in and improving seawall lots.....	48,606 18
Condemnation of land for seawall.....	28,135 87
Fire account.....	8,790 00
Amount paid J. S. Wilkins, as directed by the Legislature.....	450 00
General expenses, including office rent, fuel, stationery, printing, legal expenses, lights at wharves, overpaid revenue returned, and other incidental expenses.....	16,004 38
Total disbursements.....	\$1,141,958 97
Amount remitted to State Treasurer.....	509,133 19
	\$1,651,092 16

SAN FRANCISCO HARBOR IMPROVEMENT FUND.	
Amount in fund July 1, 1884*.....	\$201,968 32
Amount remitted to June 30, 1886.....	509,133 19
	\$711,101 51
Amount drawn out to June 30, 1886.....	\$698,539 02
Amount in fund July 1, 1886.....	44,562 49
	\$711,101 51

*The last report showed the amount in the fund, as appeared by the books, to be \$221,056 31, but this included \$19,087 99, which the books of John B. Gray, the late Secretary of the Board, erroneously showed to have been remitted to the State Treasury.

CONSTRUCTION ACCOUNT.

This account does not embrace the construction of the seawall. It is classed under two heads:

First—Work completed since last report:

Replanking portions of Pacific-Street wharf. Contract prices—furnishing and laying 6x6 inch planking, \$22 94 per M. feet, B. M.; furnishing and laying wedged planking, \$23 60 per M. feet, B. M.; furnishing and placing stringers (4x12 inch and 10x12 inch), \$22 80 per M. feet, B. M.

Work done:

97,575 feet, 6x6 inch planking	\$2,238 37
124,020 feet, wedged planking.....	2,926 87
18,069 feet, stringers.....	412 66
1,800 feet, old curbing relaid.....	8 10
Total	\$5,585 99

Section 1, of wharves and piers along Berry and Third Streets. Third-Street wharf, 311 feet by 66 feet, a connecting wharf 40 feet by 60 feet, and hay wharf, 540 feet by 132 feet.

Contract price.....\$28,389 00

Section 2, of wharves and piers along Berry and Third Streets. Berry-Street wharf, 458 feet by 59 feet; Berry-Street pier, 610 by 80 feet.

Contract price.....\$29,269 00

Box sewer under Kearny Street, near seawall. This contract was not fully completed, and there was paid thereon but \$320 55.

Two sheds and offices, near ferry slips Nos. 1 and 2. Dimensions 22 by 50 feet and 29 by 23 feet.

Contract price.....\$1,240 00

Oil wharf, foot of Center Street, 330 feet long by 50 feet wide, and 400 feet long by 60 feet wide.

Contract price.....\$20,855 00

Tearing up portion of and removing shed from Green-Street wharf. Area torn up, about 13,200 square feet. Shed removed to Section 4. seawall.

Contract price.....\$980 00

Wooden sewer through seawall, near Bay Street—190 feet long.

Contract price.....\$875 00

Embankment along Center Street—580 feet in length, 475 feet of which is 20 feet wide, and 105 feet an average of 35 feet wide.

Contract price.....\$6,000 00

Removing portions of old and new Vallejo-Street wharves, and constructing connecting wharves between new Vallejo and Green-Streets wharves. Area removed, about 17,825 square feet; connecting wharves, 290 feet long by 24 feet wide.

Contract price.....\$2,745 00

Section of Union-Street wharf and wharf between Union and Green-Streets wharves—Union-Street wharf, 140 feet by 80 feet; connecting wharf, 200 feet by 24 feet.

Contract price.....\$8,697 09

Fishermen's dock and breakwater—Two wharves, one 553 feet long by 24 feet wide; the other, 389 feet long by 24 feet wide, and breakwater 577 feet in length.

Contract price.....\$19,300 00

Extras.....2,682 77

\$21,982 77

Three sheds near ferry slip No. 2; dimensions, 74 feet by 32 feet, 60 feet by 55 feet, and 40 feet by 11½ feet.

Contract price.....\$1,346 00

Shed on Folsom-Street wharf, 400 feet long by 70 feet wide.

Contract price.....\$8,970 00

Extras.....141 22

\$9,111 22

Removal and rebuilding of portions of ferry slips Nos. 3 and 4.

Work consisted of furnishing, driving, and fastening 369 piles, furnishing, fitting, and fastening 40,000 feet of lumber, and remodeling the hoisting gear.

Contract price.....\$11,445 00

Connection of Green-Street wharf with Seawall wharf, and removal of temporary wharf between Green and Union-Streets wharves—Connection built, 80 feet by 30 feet; connection removed, 200 feet by 30 feet.

Contract price.....\$800 00

Two-story building on Third Street, near its junction with Berry-Street wharf—34 feet by 22 feet and 28½ feet high.

Contract price.....\$1,538 00

Pier between Folsom and Harrison-Streets piers, 614 feet long by 80 feet wide.

Contract price.....\$22,100 00

Extras.....742 44

\$22,842 44

Connection of Vallejo-Street wharf with Seawall wharf, and removal of temporary wharf between Vallejo and Green-Streets wharves. Structure built, 200 feet by 24 feet; structure removed, 30 feet by 80 feet.

Contract price.....\$962 00

Pier between Broadway and Vallejo-Street piers, 591 feet long by 100 feet wide.

Contract price.....\$22,947 00

Covering a space on the Seawall wharf, opposite fishermen's slip, with asphaltum pavement. Area covered, 8,101 square feet.

Contract price, 10 cents per square foot.....\$810 10

Bridge to connect Vallejo-Street wharf with Section 5 of seawall.
Temporary structure of old material, 30 feet by 24 feet.

Contract price.....\$165 00

Repairing hoisting gear, etc., of ferry slip No. 4, re-driving piles for
foundation, and renewing gallows frame.

Contract price.....\$650 00

Less deduction of 15 00

Amount paid\$635 00

Box sewer through Section 5 of seawall, 275 feet long, 3 feet by 5 feet
inside.

Contract price, \$4 10 per linear foot\$1,127 50

Removing two sheds from Broadway wharf; one 465 feet by 54½ feet,
taken down and material stored; the other 160 feet by 40 feet, removed to
Harrison-Street wharf.

Contract price\$1,200 00

Construction of temporary roadway between Pacific-Street and Broad-
way wharves; removal of same, and removal of portion of Broadway
wharf.

Temporary roadway, 200 feet by 24 feet; portion of Broadway wharf
removed, 520 feet by 110 feet.

In payment for said work the contractor had all the old material
removed.

Car ferry slip at foot of Second Street.

Contract price\$27,341 00

Extras 1,583 67

Total\$28,924 67

Approach to car ferry slip, at foot of Second Street. Stone and earth
embankment, 230 feet long, with an average width of 63 feet. Contract
prices: Stone, 97 cents per ton of 2,240 pounds, and earth, 25 cents per
cubic yard. Material used:

Stone, 6,945.93 tons \$6,640 55

Earth, 16,736.91 cubic yards 4,184 23

Total\$10,824 78

Repairing fishermen's market. Shingling, painting, and whitewashing
and repairing woodwork.

Contract price\$514 00.

Removal of portion of Pacific-Street wharf, and construction of connect-
ing roadway between Pacific and East-Streets wharves. Area of Pacific-
Street wharf removed, about 10,590 square feet; connecting roadway built,
210 feet by 30 feet.

Contract price\$2,837 00

Shed on Broadway wharf No. 2, 577 feet long by 90 feet wide.

Contract price\$7,634 00

Gates at Third and Berry-Streets wharves, and oil works wharf.

Contract price\$325 00

Office and freight room under shed on Folsom-Street pier.
Contract price.....\$210 00

Cattle wharf at foot of Second Street, triangular in shape, 190 feet by 174 feet by 260 feet.
Contract price.....\$2,758 00

Connecting Broadway wharf No. 1 with the Seawall wharf, 100 feet by 110 feet.
Contract price.....\$3,187 00

Box sewer along Broadway through the Seawall thoroughfare, 446 feet 6 inches in length, 4 feet by 6 feet inside.
Contract price, \$3 98 per linear foot.....\$1,777 47

Second.—Work contracted for but not completed June 30, 1886:
Connecting Pacific-Street wharf with wharf along Section 6 of seawall.
Contract price, \$850.....Nothing paid.

SEAWALL.

Section 5. This section was in process of construction at date of the Board's last report. It extends southerly from section four a distance of one thousand feet. It was brought to grade on March 13, 1885, and was there maintained by the contractor for a period of three months, when it was accepted and final payment made.

There was paid for this work as follows:

Stone, 119,025.86 tons, at 52 cents per ton of 2,240 pounds.....	\$61,883 44
Earth, 272,499.2 cubic yards, at 29 cents per cubic yard.....	79,024 77
Wharf.....	28,975 36
Total cost.....	\$169,883 57

Of this amount \$5,777 64 was paid prior to the last report, and the balance, \$164,118 19, was paid since.

The estimates for the stone and earth for this section were based upon the amounts used in the construction of sections one to four, and they were in excess of the actual amounts used: Stone, 44 $\frac{3}{4}$ per cent, and earth 41 $\frac{8}{10}$ per cent.

Section 6. On the sixth day of January, 1885, the Board, acting in conjunction with the Governor of the State and the Mayor of the City and County of San Francisco, awarded a contract for the construction of Section 6 to the San Francisco Bridge Company.

This section extends southerly from Section 5 a distance of 800 feet.

Seven bids were received, as follows:

NAME OF BIDDER.	Rock per Ton.	Earth per Cubic Yard.	Wharf.	Total.
San Francisco Bridge Company.....	\$0 63 $\frac{1}{2}$	\$0 34 $\frac{1}{2}$	\$15,000 00	\$123,506 50
David Finley.....	63	36	19,700 00	133,543 00
J. S. Tibbals.....	69	39	17,100 00	137,343 00
California Bridge Company.....	65	39	23,000 00	139,623 00
Jas. McCudden.....	80	35	22,000 00	145,945 00
John Kelson and John Hackett.....	78	41	24,000 00	155,207 00
B. McMahon.....	77	40	28,000 00	156,810 00

The structure was brought to grade April 3, 1886, and the contract specified that it shall be there maintained by the contractor for the period of three months.

There was used in the construction of this section:

Stone, 89,704.49 tons of 2,240 pounds	\$56,962 33
Earth, 139,277.7 cubic yards	54,950 80
Wharf	14,898 60
Total	\$126,779 73

The estimates for the stone and earth for this section were based upon the amounts used in the construction of Section 5, and they were substantially correct, the actual quantity of stone used being less than one per cent, and the actual amount of earth used but 5.4% per cent in excess of the estimated quantities.

There has been paid upon this contract to date \$95,064 63, and the balance thereof, \$31,715 10, falls due July 3, 1886.

COST OF SEAWALL.

The cost of constructing the several sections of the seawall and thoroughfare is as follows:

Section A, 591 feet long, \$152 61 per linear feet	\$85,614 53
Section 1, 1,000 feet long, \$165 68 per linear feet	165,631 40
Section 2, 1,000 feet long, \$167 50 per linear feet	167,504 09
Section 3, 1,000 feet long, \$235 50 per linear feet	235,049 51
Section 4, 1,000 feet long, \$240 87 per linear feet	240,872 01
Section 5, 1,000 feet long, \$169 89 per linear feet	169,893 57
Section 6, 800 feet long, \$158 47 per linear feet	126,779 73

Total cost of 6,361 feet (average cost per linear foot, \$187 28)... \$1,161,344 86

REPAIRS ON SECTIONS ONE AND TWO, SEAWALL.

The stone wall on the waterfront side of Sections 1 and 2 was badly damaged by the great storm of December, 1884. The Engineer was directed to prepare plans and specifications for and make estimates of the cost of refacing these sections with stone.

A contract was awarded in accordance with these plans and specifications at the following prices: For furnishing and laying large stone, 85 cents per ton; for furnishing and laying small stone, 80 cents per ton; and for laying stone furnished by the Board, 45 cents per ton.

There has been furnished and laid:

Large stone—3,799.31 tons	\$3,229 40
Small stone—5,097.76 tons	4,078 20
Total	\$7,307 60

The contract provides for payments of 75 per cent upon monthly estimates, and in accordance therewith there has been paid \$5,480 72, and retained \$1,826 88, to be paid upon final acceptance of the work.

The estimates for the material for this work were, large stone, 8,000 tons, which, at the contract price, would be \$6,800; small stone, 7,000 tons, which, at the contract price, would be \$5,600, making a total of \$13,600.

It is now evident that the slope of these sections was too steep and the rock used too small. The refacing is now being done with large stone. The work has been somewhat delayed, for the reason that these sections are in constant use, and the difficulty of procuring stone of sufficient size.