

provided in the agreement as being at their own risk—yet with an apparent intention of assisting to build up a claim for them, as well in this respect as for extra work to be done, he only estimates the sum done at £730, when in fact we have in our hands about 1700 which they will be entitled to receive when this work is completed.

To prevent this report being extended to a greater length we have added to the engineer's last report detailed reasons for objecting to it, and we beg to assure your excellency it is with much regret we have been compelled to make the remarks we have done on his conduct; we feel it our duty, however, to do so, as well on behalf of the public in this province as in those to which he is going. To conclude, we beg to lay before your excellency the present situation of the work committed to our charge, and the funds in our hands to complete it. They are, in cash and receiver general's hands, £1794 7 1,
 Loan to contractors on bond, with securities, £1250 0 0

£3044 7 1

The estimate by engineer to complete being £3301 5 6. The two sums nearly correspond.

We have ever entertained an opinion that the original grant was sufficient to complete the work—more particularly after the liberal manner in which the legislature provided for the purchase of the machinery, & the contractor himself always expressed himself in the same way—if however as is intimated by the engineer, the late storms have proved the necessity of additional securities to be placed to ensure the safety of the break-water or any occurrence hereafter proves to us that an additional grant will be necessary, we will not hesitate to submit the same to your excellency, in the hope that your excellency will lay it before the legislature of the province, accompanied by your excellency's favorable recommendation, and not doubting the ready acquiescence in providing such a sum as may be absolutely necessary to complete a work, the vast importance and utility of which, is made more and more manifest every day.

Left in this manner by the engineer, we have deemed it proper, in the meantime, to employ Mr. Andrew Kirby to superintend the execution of the work, & having acted in this capacity under Mr. Hall he has some knowledge of the matter entrusted to him—and has also the advantage of living on the spot—we have only to add that the contractor feels confident he will have the canal excavated thro' the beach to the depth of eight feet by the first July next when most of the vessels navigating the lake will be enabled to benefit it and the canal become a source of revenue towards liquidating the money borrowed for its formation.

All of which is respectfully submitted.

(Signed) JAMES CROOKS,
 MANUEL OVERFIELD,
 WILLIAM CHISHOLM,
 ROBERT NELLIES,
Commissioners.

April 13th, 1826.

ENGINEER'S FIRST REPORT IN 1826.

To the Commissioners for making a Canal and Piers at Burlington Beach.

GENTLEMEN—

In consequence of the severity of the weather during the month of December, the sinking of piers has been suspended in Lake Ontario — The Contractors have confined their operations to the southern land pier abutment upon the shore of Ontario backing the same with sand procured from the cut across the beach: above one hundred cord of stone, equal to 320 tons, has been deposited upon the unfinished piers, and every precaution taken to secure the works, & boats & machinery against the contingencies of the season.

Thirty workmen are still employed upon the works, and with the conveyance of stone upon the ice to the piers in Burlington lake.

A considerable part of the piers in the lake may be finished and loaded during the winter months. The facility of drawing stone upon the ice is such that five loads, each containing sixteen hundred weight can be collected and drawn daily by one team.

From the unfinished state of several piers that has lately been sunk, considerable difficulty occurs in estimating correctly the quantity of work performed.

The following approximation may be nearly correct.

120 Cord of Stone at 15s. per Cord,	-	-	-	-	-	-	£90 0 0
114 feet South pier abutment,	-	-	-	-	-	-	12 10 0
456 yards excavation through beach, at 6d. per yard,	-	-	-	-	-	-	11 8 0
700 yards ditto, by dredging machine,	-	-	-	-	-	-	8 15 0
							122 13 0

A minute detail of the further prosecution of the works is now in progress and will be submitted with next monthly report.

I have the honour to be

Gentlemen,

Your very obedient servant,

(Signed) FRANCIS HALL.

Burlington Beach, 1st January, 1826.

ENGINEER'S SECOND REPORT IN 1826.

To the Commissioners for making a Canal and Piers at Burlington Beach.

GENTLEMEN—

The month of January last, has been exclusively employed by the contractor in sinking and raising piers on Burlington lake, at this date, nine hundred and eighty lineal feet of piers has been loaded with stone, and raised, with the exception of seventy feet, to the required height.

About twenty teams and forty men are daily employed at these piers with the conveyance of stone, timber, and material; stone of a suitable and excellent description continue to be carried from the neighbourhood of Stoney Creek, distant about six miles from the works—the quantity conveyed since the 1st January last, is equal to 2400 cubic yards or 3460 tons.

The square timber and braces applied to this part of the work is of the best description—the solidity of the ice upon Burlington lake has afforded the workmen every facility for framing and uniting their cassons in the most expeditious and proper manner.

During the heavy gales of the 15th January the northern unfinished casson of the breakwater was partially undermined by the action of the underset current so as to cause a separation of this casson from the main pier or blockwork, subsequent gales has had the effect of submerging nearly the whole of this pier—the timbers and part of the stone continue so connected, that when spring operations will permit, this casson will provide a good foundation for erecting a more permanent head-work.

By the original design it was intended to carry the breakwater head 80 feet in a north west direction beyond the present casson a more intimate knowledge of the currents and direction of the prevailing winds upon lake Ontario and their effects upon piers placed in various depths, and at different inclinations may suggest a different arrangement of the remaining part of the breakwater works, the expense to the contractor in either case will be equal, but the permanance of the works by the proposed alteration will be decidedly ensued.