

Chief Engineer recommended certain modifications of the plans embraced by the said original estimates.

On the 1st December 1841, a further detailed estimate of the work done and to be done on the fifty miles between Dam No. 6 and Cumberland, was made by the Chief Engineer, in which the saving of cost, in consequence of the modifications of the plan above alluded to, were taken into account. In the report presenting this estimate, he says, "assuming that the composite plan will be adopted for all the remaining locks, except the four first named (Nos. 68, 69, 70, 71,) and that the other changes spoken of as respects the culverts, and lock-houses will also be made (viz: brick for the arches of the culverts, and log buildings for the lock-houses) I deduct \$100,000, from \$1,691,136, and there remains \$1,591,136, for the sum required to complete the canal on the 1st December, 1841."

*On the first of December, 1842, after operations on the line of the canal had entirely ceased, the Chief Engineer made a final report of the sum necessary to finish the canal. In that report he says, "to arrive at the amount now required to complete the canal to Cumberland, it is necessary to deduct from the estimate submitted to the Board in December 1841, the work done from that time to the close of the session of the last Legislature, when operations were entirely suspended, and also such other work previously done, as may have been included in the cost of completion from not having been fully estimated to the contractors, at the time that estimate was prepared. Making these deductions the sum of \$1,545,000 remains as the amount now required for completion. This amount it should be recollected contemplates certain modifications of plan, which have been advised (see my report of the 1st December 1841,) and is exclusive of interest, back debts, and cost of superintendence."*

It will be perceived by reference to the terms of the contract, that the parties contracting bind themselves to finish the canal "according to the plans and specifications embraced by the estimate of the Chief Engineer reported to this company on the *first of December, 1842, as modified and explained by certain memoranda thereto attached, &c.*"

The sheer cost of completing the canal to Cumberland, according to the plans and specifications embraced by the estimates of the first of December, 1842, which has frequently been referred to in our communications to the Legislature was, as is above shewn, \$1,545,000. The memoranda mentioned as being now attached to said plans and specifications relate to a few subordinate details, and provide for the substitution of stone instead of wooden coping for the composite locks, which is calculated to increase the actual cost of completing the work, about six thousand dollars.

*Under the contract we have executed, therefore, the canal is to be thoroughly completed to Cumberland according to the present approved plans and in the most perfect manner, for at least one hundred and ten thousand dollars less than the cash estimate of*