EIGHTH ANNUAL REPORT

OF THE

ACTING COMMISSIONER

OF THE

ILLINOIS AND MICHIGAN CANAL,

TO THE

GENERAL ASSEMBLY,

DECEMBER 18, 1844.
Laid on the table, and 400 copies ordered to be printed for the use of the two Houses.

SPRINGFIELD:
WALTERS & WEBER, PUBLIC PRINTERS.

EXECUTIVE DEPARTMENT,
Springfield, Dec. 18, 1844.

To the House of Representatives:

I have the honor, herewith, to communicate to the House of Representatives the report of the acting Commissioner of the Illinois and Michigan canal and accompanying documents.

I am very respectfully,
Your most obedient servant,
THOMAS FORD.

REPORT

OF THE

CANAL COMMISSIONER.

CANAL OFFICE,
Lockport, Dec. 2, 1844.

To his Excellency, THOMAS FORD,
Governor of the State of Illinois:

SIR: Pursuant to the law of the last session of the Legislature, the Commissioner of the Illinois and Michigan canal has the honor to submit the following

ANNUAL REPORT.

Immediately after the adjournment of the last Legislature, the undersigned, acting Canal Commissioner, repaired to Lockport, and in obedience to the provisions of "An act to reduce the number of officers and agents on the Illinois and Michigan canal," approved March 2, 1843, he discharged all the officers and agents in the employ of the State, and connected with the canal, except the Secretary, who was continued in office by that law. And immediately thereafter, according to the provisions of said act, appointed William Gooding, Engineer, and Isaac Cook, Agent to protect the timber on canal lands. The Engineer having discharged all the duties required under his appointment, resigned, which resignation took place on the first instant.

A very small amount of work has been done on said canal since the last annual report, made December, 1842. At the close of the last session of the Legislature, a few contractors were at work under contracts between Dresden and Marseilles, entered into previous to the passage of "An act for the completion of the Illinois and Michigan canal, and for the payment of the public debt," approved February 21, 1843. These contractors were notified of the passage of said act, and directed to suspend work preparatory to a settlement under and according to the provisions of the above recited law; which order was immediately complied with, and the work was entirely suspended.

Some time in June, 1843, the Board of appraisers, appointed by your Excellency, reached Lockport and immediately organized; and all the contractors except those on sections 16 and 17—the river channel at

Sauganaskee swamp, and lock 15, at the western terminus of the canal, came forward and submitted their claims for adjustment. These contractors were prevented from presenting and prosecuting their several claims before said Board, by causes which were not removed untill after its adjournment. The contractor on sections 54 and 55, having submitted his claim for damages, immediately thereafter, made application to withdraw the same, which was not permitted by said Board of appraisers, upon which the said contractor commenced suit against the canal Board, which is still pending in the Will county circuit court; an award of damages was, however, made by said appraisers upon the claim submitted. Contractors on the above sections 16 and 17—the river channel at the Sauganaskee swamp, and lock 15, are, as I am informed, now willing to go into an adjustment of their several claims.

From the decisions of said Board of appraisers, a few appeals were taken to the circuit courts of the counties of La Salle, Grundy, Will and Cook. These appeals have all been disposed of in said courts except three, without any increase of damages against the State, save the one embracing the culvert across Nettle creek, in which case the damages were increased to one hundred and fifty dollars. The remaining three cases will in all probability be arranged without any increase of damages against the State.

Under the provisions of said act, it became the duty of the Commissioner having charge of the affairs of the canal, to sell the lands and town lots, which were reserved by the provisions of that law, and which had been relinquished or forfeited by the purchasers. In pursuance of said law, William B. Egan, Lewis Kerchival and Bennett Allen, were appointed by Judge Young, to appraise said lands and town lots in the counties of Cook, Will and Grundy; and George H. Norris, Seth T. Farwell and B. F. Fridley were appointed by Judge Robinson, to appraise said lands and town lots in the county of La Salle.

After the appraisements were made, tho said lands and town lots were advertised according to law, and offered at public sale, commencing at Chicago on the 3d day of October, 1843, and ending at La Salle on the 18th of the same month. The terms of sale prescribed for timber lands, were one-fourth of the purchase money in hand paid, and the remainder in three equal annual payments, with interest at the rate of six per cent. per annum payable in advance; and for prairie land and town lots, one-tenth of the purchase money to be paid at the time of sale, the remainder payable at the expiration of twenty years, bearing an interest of six per cent., payable annually.

All the lands and town lots, subject to sale under the provisions of said act were offered, with the exception of two fractional quarter sections of land situated on the Kankakee river. In changing the present plan of the canal, said river would necessarily be made use of as a feeder, and which would in all probability from the surveys run, be taken out of the same at a point on the river where this land is located. The erection of a dam across the river would become necessary, by which a valuable water power would be created at that point; and by which great manufacturing facilities would be afforded. In view of the importance of the State being able to control the water power, and the enhanced value of

the lands on which the same may be created; it was deemed proper to withhold said lands from sale at that time. All of said lands and town lots offered, were sold, except a few lots in the original town of Ottawa on the south side of the Illinois river, and three lots in the town of La Salle.

Paper marked (B) hereto annexed exhibits the number of each lot and block—the valuation, and the amount sold for; also the description of the lands—the valuation thereof, and the amount sold for. The sales thus made, in the aggregate amount to the sum of $297,252 25.

The amount of bills receivable now on hand, derived from the sales of every description of canal property, amount to the sum of $254,625 00.

There has been received into the Treasury from the sales of canal lands, town lots, timber, &c., since the commencement of the canal in 1836, up to the first of November, 1844, the sum of $932,407 91.

The following exhibits the amount received in the Treasury, for the three last quarters of 1843, and all of 1844.

1843, 2d quarter,	$14,173 29		
" 3d "	14,746 17		
" 4th "	56,394 01		
		$85,313	47
1844, 1st "	10,301 09		
" 2d "	8,305 52		
" 3d "	14,682 66		
" 4th "	18,823 66		
		52,112	93
Total,		$137,426	40

The above sum was received in the following kinds of canal funds, which has been cancelled and packed up as redeemed paper, viz:

Interest scrip,	$11,007 00
Interest on same,	2,751 00
Governor's scrip,	3,724 00
Interest on same,	78 40
Indebtedness,	119,866 00
Total,	$137,426 40

The following exhibits the cash account in the Treasurer's office, including the years 1840, 1841, 1842, and the first quarter of 1843.

1840,	$24,680 82
1841,	27,587 05
1842,	158,347 77
1st quarter of 1843,	61,479 49
Total,	$272,095 13

Amount of canal funds accounted for by the late Treasurer.

For the year 184),	$24,697 58
For the year 1841,	27,631 98
For the year 1842,	158,347 84
First quarter of 1843,	60,449 96
Total,	$271,127 36

This amount deducted from the above sum of $272,095 13, shows a balance of $967 97 remaining in the hands of said Treasurer.

The Secretary's report herewith submitted, (marked A.) exhibits the different kinds of scrip and indebtedness issued by the Board—the amount now in circulation—the various expenditures classed under their appropriate heads, including contingent disbursements—the amount of interest paid on balances due the contractors, under the provisions of an act of the last session of the Legislature, entitled "An act to provide for the allowance and payment of interest, and money due the contractors on the Illinois and Michigan canal," approved March 3, 1843—the number of agents in the employ of the State since the last annual report, their compensation and the time they left the service, and all other business done through that office.

The entire amount of payments upon the canal from its commencement in the spring of 1836, up to the first of November, 1844, is $5,039,248 04.

During the year, 1836,		$99,910 63
" " 1837,		335,731 70
" " 1838,		909,611 33
" " 1839,		1,256,243 12
" " 1840,		1,340,533 06
" " 1841,		231,870 17
" " 1842,		568,394 69
" " 1843,		210,751 54
" " 1844,		86,232 10
Total,		$5,039,248 04
Construction,	$4,674,637 23	
Contingent,	364,610 81	
		$5,039,248 04

A considerable amount of the contingencies exhibited above, were expended for the benefit of the land and other canal property, which has been fully explained in former reports of the Board.

The Secretary's report, above alluded to, gives every item, and shows the amount thus expended to be the sum of $121,957 58, which sum deducted from the gross amount of contingent expenses, leaves the true amount of contingencies for superintendance at the sum of $242,652 93.

The following statement shows the amount of Bonds sold on account of the canal, by the Fund Commissioners and other agents, from its commencement in 1836, up to the present time.

Under the act of January 9, 1836, five hundred bonds, of one thousand dollars each, sold by Governor Duncan to the State Bank of Illinois, payable in the city of New York, - - - - - - -	$500,000
Under the act of March 2, 1837, five hundred bonds, of one thousand dollars each, sold by Gov. Duncan to the State Bank of Illinois payable in the city of New York, - - - - - - -	500,000
Under act of July 21, 1837, three hundred bonds, of one thousand dollars each, sold by Gen. Rawlings to J. Delafield payable in the city of New York, -	300,000
Under the act of February 23, 1839, one thousand bonds, of £225 sterling each, sold by Gen. Rawlings and Gov. Reynolds to the Bank of the United States, payable in London, - - - - -	1,000,000
Under the same act of February 23, 1839, one hundred bonds of £225 sterling each, sold by General Thornton, to various contractors, payable in the city of New York, - - - - -	100,000
Under same act of February 23, 1839, one hundred and fifty bonds of £225 sterling each, sold by Messrs. Wright & Co., of London, under a contract made by Judge Young and Gov. Reynolds, payable in London, - - - - - -	150,000
Under same act of February 23, 1839, one thousand bonds of £225 sterling each, sold by Gov. Carlin to the canal contractors, and by their agent General Thornton, to Messrs. Magniac, Smith & Co. of London, and payable in London, - - -	1,000,000
Under the same act of February 23, 1839, one hundred and ninety-seven bonds of one thousand dollars each, sold by the Board of Canal Commissioners under the directions of Gov. Carlin, to the canal contractors in 1841, payable in the city of New York, - -	197,000
Eighty-four bonds of one thousand dollars each, sold by Gen. Whiteside, to Messrs. Duffee & Co., of this amount forty-eight bonds having been redeemed by Gov. Ford, leaving a balance of, - - -	36,000
Amount of interest due on the above bonds, up to January, 1845, say about, - - - -	783,660
Total amount of bonds and interest, - - -	$4,566,660

Statement—Continued.

Amount of canal scrip in circulation, bearing six per cent. interest, from the first day of March, 1844, -	$319,885 04
Interest on the same, from the first of March, 1840, up to the first of December, 1844, - - - -	91,161 53
The amount of Canal indebtedness in circulation without interest, - - - - - -	301,678 70
Amount of ninety day checks in circulation without interest, - - - - - -	316 00
Amount of balance due contractors, - - -	86,962 37
Amount of damages awarded for injury done by the canal in running across private property, - -	23,587 96
Amount of scrip issued by Governor Ford in payment of damages, awarded canal contractors, and now outstanding, - - - - -	226,353 72
Amount of interest on same, about, - - -	14,000 00
Total, - - - - - - - -	$1,063,945 14
This sum added to the total amount of canal bonds, and interest, makes the canal debt in the aggregate the sum of, - - - - - -	$5,630,605 14

The chief Engineer in his report (marked C,) and herewith submitted, gives a very full and satisfactory exposition of his department. He exhibits the entire amount of work measured on the canal, from the commencement of operations in the spring of 1836, up to the first of December, 1844; with a tabular statement accompanying the report, showing the amount of work estimated upon each section and structure, with the various items estimated, and the price paid for each; also an estimate of the cost of the several proposed changes of the canal, and makes a number of suggestions, which are submitted as worthy of consideration.

The estimates of the cost of the several proposed plans of the canal as submitted in his report, are as follows, viz:

1st, or original plan, - - - -		$2,353,772 96
2nd	do - - - -	1,485,095 86
3rd	do - - - -	1,772,035 53
4th	do - - - -	1,733,240 50
5th	do - - - -	1,688,640 08
6th	do - - - -	1,579,846 07

The Commissioner deems it unnecessary on this occasion to express an opinion, in reference to the above proposed plans, inasmuch as they are all considered practicable; the whole matter is, therefore, submitted for the purpose of enabling the Legislature to adopt that plan, it may in its wisdom deem best for the interests of the State.

In conclusion I would say, that on the arrival of Gov. Davis and Capt. Swift, on the line of canal in the fall of 1843, the agents of the foreign bond-holders; they called upon me, through the Hon. Michael Ryan, for

information touching the cost of construction and expenditures, and of the canal debt. The amount and description of the unsold lands with their value, according to the different classifications. The estimates for completing the canal upon the various plans submitted in the Engineer's report—together with a demand upon me to survey a rout of thirty-three miles, from Aurora on Fox river, to the summit level of the canal, in order to test the practicability of making said river a feeder;—which survey required the services of a full corps of engineers. A detailed report of which was furnished said agents—together with copies of all the papers and accounts which they deemed necessary to lay before the foreign bond-holders, for their information.

The labor and expense created by this call upon me, can only be fully comprehended by reference to the voluminous copies which I retained, and which I have now in my possession subject to inspection, if a call shall be made upon me. In addition to all this, I furnished said agents with a map embracing the entire length of the canal, exhibiting the lands sold and unsold, for five miles on each side of said canal, divided into sections and quarter sections, half quarter sections and quarter quarter sections, showing upon each tract sold, the amount the same sold for. And also a map of each of the towns laid out upon canal lands, designating the lots sold.

The time consumed, and the number of persons employed, necessary to enable me to give all this required information, has necessarily contributed to the contingent expenses for the last two years.

Should not the foregoing report and accompanying documents contain all the information desired, any further statements will be cheerfully given at any time.

All of which is respectfully submitted.

JACOB FRY,
Acting Commissioner.

A.

SECRETARY'S REPORT.

To the Acting Commissioner
of the Illinois and Michigan Canal:

The following statement will present a general view of the business transactions of my department of the canal office during the two past years.

During the year 1839, for the want of funds to pay for work as fast as it was done, checks upon the Bank, payable ninety days after date, were issued, at two different times. My last report, in the fall of 1842, showed that these checks had all been redeemed, except the sum of $323, and that $123, belonging to the contingent fund, was left in the Bank for their redemption. Since that report, $7 only have been presented for payment. These were redeemed, and the balance of funds for their redemption withdrawn from the Bank. This leaves still charged to circulation, (of this kind of currency,) the sum of $316—which being in small checks it is presumed have been mostly or all lost or destroyed.

Of the small at-sight checks, to-wit: $1, $2 50 and $5, issued in the fall of 1840, and spring of 1841, and for the redemption of which provision was made by a deposit in Bank, it was stated in the last report that there remained in circulation the sum of $17,523; except what might have been redeemed at the principal Bank. Since that time, there has been received at this office, from the principal Bank, the sum of $10,344 50. Leaving still in circulation $7,178 50—except what has been redeemed by the Bank, since April 28, 1843, the date of the last remittance.

The amount of checks, to-wit: $409,448 70, issued March 1st, 1840, under an act of the Legislature, bearing interest at six per cent., has been reduced by redemption at the Bank, and receiving them in this office in payment for lands, &c., to the sum of $319,885 04; which balance is still charged to circulation.

Contractors accepted orders, mentioned in the last report, remain unpaid to the amount of $27,921 64. These were a means of payment to contractors, adopted in the spring of 1841, and by which payments were made for work done before that time, and during the whole of that year, and are here known by the name of "State indebtedness."

That kind of acknowledgment of debt, called, in my last report, "canal indebtedness," has continued to be the principal currency of this office during the two last years; both in paying contractors and receiving payment for lands, lots, &c. From the commencement of the use of this

kind of currency, to this time, there have been issued the amounts, and of the denominations following to wit:

8,090	$1 00	equal to	$8,090 00	
2,400	2 50	" "	6,000 00	
2,400	5 00	" "	12,000 00	
1,198	10 00	" "	11,980 00	
599	20 00	" "	11,980 00	
599	50 00	" "	29,950 00	
5,950	100 00	" "	595,000 00	
				$675,000 00
Of this sum, - - - - - - -				58,129 30,
remains in the hands of the Acting Commissioner; the balance of a fund for payment to contractors, making the amount charged to circulation, - - -				$616,870 70
Of this last amount there has been redeemed by payments into the Treasurer's office, for lands, lots, &c., the sum of,				315,192 00
Leaving a balance charged to circulation of, - -				$301.678 70

There is a third species of indebtedness, which is current in transacting the business of this office, to-wit: "Governor's scrip," (so called); that issued by that officer under authority of the law of the last session of the Legislature, to pay contractors' damages upon the relinquishment of their contracts. This has been received in payment for lands, lots, &c., (including the sum of $78 40 allowed thereon for interest,) to the amount of $3,724 64. As the circulation and redemption accounts, of all the various kinds of canal currency, checks, scrip, and indebtedness, are kept in the Secretary's office, the Governor's scrip also has been cancelled, passed over by the Acting Commissioner, (acting as Treasurer,) to the same office; where the face of said scrip, (exclusive of interest,) is charged to redemption account, (of that particular kind of currency,) and packed and sealed up as other redeemed paper, the same being $3,724 64.

There has been no new contracts made, or work done upon the canal, during the two past years; but considerable payments made for work heretofore done, and payment delayed for want of means.

Of the tabular statements accompanying this, paper No. 1, exhibits the amounts paid for each year, and the parts of the line upon which the same has been done.

For construction, - - - - -	$244,524 36
For contingencies, - - - - -	52,359 38
Total, - - - - - - -	$296,883 74

In former reports it has been stated, as to the manner of keeping the accounts in this office, that all sums paid for work upon the canal, and those alone, are charged to the respective sections or jobs, and at regular periods these accounts are carried to construction, as a general account for all payments for work; and that all other payments are carried to the head of contingencies. But during the two last years a claim for interest upon balances due contractors has arisen under an act of the last session of the Legislature. This, though not strictly for work, is properly

chargeable, and has been charged to the respective jobs, and is consequently carried to the general account of construction, and, in paper No. 1, is included in the amount of payments to contractors. The said interest was paid on the several divisions as follows:

On the Summit Division, - - - -	$14,159 21
" Middle " - - - -	3,753 10
" Western " - - - -	1,727 56
Total, - - - - - -	$19,639 87

I would here remark that whenever it is made known to this office, what sums have been paid to contractors for damages upon relinquishing their contracts, the several amounts will be charged to the respective jobs, in order that their entire cost, as well as that of the whole work, may be readily shown.

It has heretofore been remarked that large sums which are carried to the account of contingencies, do not properly belong thereto, as the term is generally understood. The same may be repeated of the contingent account of the two last years, as exhibited in paper No. 1. These irregular, or extraordinary contingent accounts of these years amount to the sum of, - - - - - - - - $19,293 39

In this amount is included checks issued for the payment of contractors, and, after the fund for their redemption was exhausted, redeemed out of the contingent fund, and cancelled and charged to incidentals, because they could be charged no where else, ($672 56.)

There has also been paid and included in the said contingent account for officers and agents' services, previous to these years, the sum of - - - - - - $9,231 00

Also accounts made before that time, then standing open, and since transferred to incidentals, - - - $1,678 50

In all, - - - - - - - $30,202 89

This sum deducted from the contingent account leaves the sum of - - - - - - $22,156 49

In this last sum is included an expenditure of about fifteen hundred dollars, occasioned by an examination made the last winter by Messrs. Davis and Swift.

Paper No. 2, an account of the Secretary with the contingent fund, shows that the two years commenced with the sum of $111,464 03, in the Secretary's hands belonging to the fund, and ended with the sum of $66,646 03.

These large sums in this fund are mostly occasioned by retaining from contractors' estimates, sums sufficient to redeem their orders, mentioned in the former part of this report.

There are a large number of accounts upon the Secretary's books, with balances as debits, or credits, to the said fund; nearly all of which are

kept open on account of the transactions with the contractors by means of the said orders. The amount of the said balances stand as follows:

Debits, - - - - - - -	$13,378 84
Credits, - - - - - - -	22,504 84

Paper No. 3, a list of the several jobs upon which any thing remains due, shows an amount still due contractors for work done upon the canal of $75,963 54, and interest, under the law of last session, up to Dec. 1, 1844, of $10,198 86.

Some of the dues therein set forth, to-wit: on sections 59, 60, and 75, have in fact been mostly paid, by the acceptance and payment of their orders; and constitute the greatest part of the debits above mentioned, as standing upon the Secretary's accounts of the contingent fund.

Of the allowances of damages occasioned by the construction of the canal across private property, there remains unpaid the sum of $17,560 40. Interest thereon, up to Dec. 1, 1844, $6,027 56.

From the foregoing the following condensed account is made.

The amount in the hands of the Acting Commissioner for the payment of contractors, - - - -		$58,130 30
The amount belonging to the contingent fund in the hands of the Secretary, - - - - - -		66,646 03
The sum of the debits of individual accounts on the Secretary's books, - - - - - -		13,578 84
Total, - - - - - - -		$138,355 17
Undrawn demands of contractors, -	$75,963 54	
Interest thereon, to Dec. 1, 1844, - -	10,198 86	
Damages allowed individuals, - -	17,560 40	
Interest thereon, to Dec. 1, 1844, - -	6,027 56	
Amount of individual credits on the Secretary's books, - - - -	22,504 84	
		132,255 20
Balance, - - - - - -		$6,099 97

In the last report, the aggregate account of all the articles purchased for the use of the contractors stood with a balance in favor of the commissioners of, - -	$471 55
Since that time there have been a few articles of canal stores sold for, - - - - - -	8 96
	$480 51
And an item of expense paid for receiving, storing, and delivering the same of, - - - - -	350 00
Which leaves a balance in their favor of, - - -	$130 51

It will be observed, that among contingencies there is an item of $1,199 35 charged to the Sauganaskee road. This is the amount of a judgment, (with the interest,) recovered against the Commissioners under a contract made in the fall of the year 1836.

Paper No. 4, is a list of the officers and agents in the employment of the Board, any part of the two last years; the nature of their services and their compensation.

There has been no sale of canal property during these years, except the one of forfeited lands and town lots, under the law of the last Legislature. This took place in October, 1843, and the result will particularly appear from a list of the lands and lots sold from the Treasurer's office.

The whole payment upon the canal, from the commencement of operations thereon, in the spring of 1836, to the present time, is $5,039,248 04

During the year 1836, - -	$99,910 63	
" " 1837, - -	335,731 70	
" " 1838, - -	909,611 33	
" " 1839, - -	1,256,243 12	
" " 1840, - -	1,340,533 06	
" " 1841, - -	231,870 17	
" " 1842, - -	568,394 69	
" " 1843, - -	210,751 54	
" " 1844, -	86,232 10	
		$5,039,248 04
Charged to construction, - -	$4,674,637 23	
Charged to contingencies, - -	364,610 81	
		$5,039,248 04

In the last report mention was made of a large amount of extraordinary contingent accounts, and a list given of their several sums, and the heads under which they had been charged; and a similar remark has already been made of the contingencies of the two last years. A list of such accounts, including the statements for both reports stands thus:

Office lot for 1842,	$544 67			
Canal towns, " -	2,218 50			
Canal office, " -	1,500 00			
Sauganaskee road, -	40,732 25	for 1844,		$1,199 35
Land Agency, " -	16,618 08	" "		4,602 82
Lockport office, " -	4,602 56			
Lockport houses, " -	6,611 63			
Real estate, " -	7,207 03	" "		1,085 43
Ware-house, " -	4,209 37			
Painting account, " -	657 17			
Right of way, " -	17,763 23			
Negotiation, -		" "		253 23
Incidentals, -		" "		672 56
	$102,664 49			$19,293 39
Together making the sum of - - -				$121,957 88

Which sum, deducted from the total amount of contingencies charged as above stated, leaves the amount of contingencies proper $242,652 93.

The exact uniformity, which for some years prevailed between the estimates in the Engineer's office, and the payments, with the per cent. retained in the Secretary's office, no longer exists. This has been occa-

sioned by the delay of payment of estimates. The payment of interest on balances due contractors under the law of the last session of the Legislature, and in a few cases of payments by arrangement between the Commissioners and contractors, without the usual estimate in the Engineer's office.

J. MANNING, *Secretary.*

Canal Office, Lockport, Nov. 15, 1844.

No. 1.

Amounts paid during the two years.

To contractors during the year 1843,		$181,008 39
" " " " 1844,		63,515 97
Total,		$244,524 36
Upon the Summit division,	$130,217 58	
Upon the Middle do	54,175 97	
Upon the Western do	60,130 81	
		$244,524 36
For contingencies during the year 1843,	$29,743 25	
" " " " 1844,	22,616 13	
		52,359 38
Total,		$296,883 74

No. 2.

DR. J. MANNING, *Secretary, in account with the Contingent Fund.*

1842.			
Dec. 1.	To balance from last quarter and as reported in last report, - -	–	$111,464 03
1843.			
Jan. 16.	Incidentals, - - - -	$260 00	
" "	Postage account, - - -	11 11	
" "	Armour & Lamb, - - -	307 12	
" 23	John Lonergan, - - -	1 65	
			579 88
1843.	*Credit.*		112,043 91
March 1.	By amount paid out during the quarter, for the objects and amounts, see vouchers, - -	–	10,771 67
			101,272 24
	Dr.		
April 4	To Wilder & Co., - - -	112 00	
" "	To D. Lynch, - - - -	1,113 00	
" "	To J. & S. R. Clifford, - -	400 00	
" "	To D. Sanger & Sons, - -	3,000 00	
May 29.	To H. & Rush, - - - -	600 00	
" "	To J. Bracken, - - - -	423 82	
			5,648 82
	Credit.		106.921 06
June 1.	By amount paid out, see vouchers,	–	25,232 09
			81,688 97
	Dr.		
June 30.	To S. S. & Wallace, - - -	4,761 32	
" "	To W. Brodie & Co., - -	65 00	
" "	To D. Sanger & Sons, - -	2,000 00	
" "	To M. B. & Rood, sec. 35, - -	343 31	
" "	To M. & Hurlbut, - - -	1,000 00	
" "	To John Lonergan, - - -	250 00	8,419 63
Aug. 28.	To E. B. Talcott, - - -	–	91 99
			90,200 59
	Credit.		
Sept. 1.	By amount paid out, see vouchers,	–	13,160 73
			77,039 86
	Dr.		
Nov. 25.	To James Brooks, - - -	–	738 31
	(Amount carried over)		77,778 17

No. 2.—*Continued.*

	Amount bro't forward - -	–	$77,778 17
1843	*Credit.*		
Dec. 1.	By amount paid out, see vouchers,	–	5,445 94
			72,332 23
	Dr.		
" 12.	To C. Connel & Sons, - -	403 20	
" "	To Mott & Owens, - - -	180 00	
" "	To A. P. McDonald, - - -	2,408 43	
" "	To Beach, Rood & Co., - -	3,349 82	
" "	same - - - -	398 85	
" "	To J. T. Temple, - - -	3,331 50	
			10,071 80
" 15.	To Roberts & Roberts, - -	–	3,050 13
" 16.	To J. T. Temple, - - -	96 84	
" "	To Beach, Rood, & Co., - -	65 84	
" "	same - - - -	552 76	
			715 44
1844			
Feb. 5.	To E. B. Talcott, - - -	–	166 66
			86,336 26
	Credit.		
March 1.	By amount paid out, see vouchers,	–	8,315 07
			78,021 19
	Dr.		
Aug. 15.	To O. & Strail, - - -	1,000 00	
" 20.	To C. and Hervy, - - -	10,113 59	
			11,113 59
			89,134 78
	Credit.		
Sept. 1.	By amount paid out, see vouchers,	–	16,471 22
			72,663 56
	Dr.		
" 10.	To W. B. & E. Newton, - -	130 00	
Nov. 1.	To canal stores, - - - -	2 40	
" "	To incidentals, - - - -	7 25	
			139 65
			72,803 21
	Credit.		
" "	By amount paid out, see vouchers,	–	6,157 18
	Bal. - - -	–	$66,646 03

J. MANNING, *Secretary.*

Lockport, Nov. 15, 1844.

No. 3.

List of jobs of work upon which balances remain due.

Description.	Balance due.	Int'st to Dec. 1, 1844.
Section No. 25, - - - -	245 00	35 51
" " 26, - - - -	104 08	10 92
" " 46, - - - -	1,961 86	441 44
" " 54, - - - -	2,393 33	984 28
" " 59, - - - -	16,768 68	1,392 44
" " 60, - - - -	5,943 82	2 37
" " 75, - - - -	5,951 22	76 05
" " 76, - - - -	7,000 00	66 98
" " 92, - - - -	595 81	18 30
" " 93, - - - -	2,793 15	677 78
" " 114, - - - -	23 97	
" " 118, - - - -	26 30	
" " 146, - - - -	3,429 03	219 08
" " 195, " " 196, " " 197, - - -	21,411 48	4,991 52
Culvert No. 19, - - -	112 36	
Slides on 191, 2, 3, and 4, - -	321 24	59 47
Protection wall No. 1, - -	112 30	25 21
B. R. embankment, - - -	28 71	4 77
Lock No. 13, - - -	915 99	182 00
" " 15, - - - -	5 64	1 26
Protection wall No. 3, - - -	782 60	176 15
River section, - - - -	5,036 97	833 33
	$75,963 54	$10,198 86

J. MANNING, *Secretary.*

Lockport, Nov. 15, 1844.

No. 4

A LIST of officers and agents employed by the Board.

Persons.	Office.	Compensation.	Entered service.	Left service.
Wm. Gooding, -	Chief Engineer, -	$2,000 per annum, -		To leave Dec. 1, 1844.
A. J. Gallaway, -	Assistant do -	1,000 " " -		March 15, 1843.
N. D. Elwood, -	do do -	600 " " -		Jan. 15, 1843.
G. W. Keersted, -	Rodman, - -	50 " month, -		March 14, 1843.
J. Manning, - -	Secretary, - -	1,750 " annum, -		
J. Weatherford, -	Land Agent, - -	4 " day, -		March 21, 1843.
J. B. Witt, - -	do do - -	4 " " -		March 15, 1843.
Isaac Cook, - -	do do - -	4 " " -	March 18, 1843, -	

Lockport, November 15, 1844.

J. MANNING, *Secretary.*

List of forfeited and relinquished lots, in Chicago, Lockport, Ottawa and La Salle, sold in October, 1843.

Location.	Lots and parts of lots.		Block.	Valuation.	Amount sold for.
Chicago,		8	3	$1,300 00	$6,635 00
"		1	6	800	7,000
"		3	6	600	4,100
"		4	6	700	5,360
"		6	6	350	1,400
"		8	6	400	1,730
"	East half	2	6	300	2,220
"		2	8	200	1,010
"		8	8	600	3,300
"		1	9	200	1,060
"		2	9	150	560
"		5	9	400	1,275
"		8	9	400	1,300
"		1	12	350	1,510
"		2	12	250	1,100
"		4	12	250	1,000
"		8	12	250	1,000
"		9	12	600	1,675
"		1	13	600	4,000
"		2	13	400	2,350
"		4	13	500	3,050
"		7	13	400	1,540
"		7	23	800	2,830
"		8	23	1,000	4,820
"		1	24	600	1,325
"		8	24	700	1,925
"		2	25	350	800
"		3	25	300	510
"		4	25	350	900
"		5	25	350	900
"		6	25	300	795
"		7	25	400	830
"		8	25	500	1,020
"		1	26	500	1,130
"		2	26	400	720
"		3	26	300	559
"		4	26	350	985
"		5	26	350	750
"		6	26	300	510
"		7	26	300	600
"		8	26	350	875
"		9	26	600	1,290
"		10	26	500	1,200

Same List—Continued.

Location.	Lots and parts of lots.	Block.	Valuation.	Amount sold for.
Chicago.	1	27	$700 00	$2,900 00
"	2	27	500	1,200
"	3	27	350	900
"	4	27	400	1,400
"	5	27	400	1,420
"	6	27	350	725
"	7	27	350	795
"	8	27	400	1,100
"	9	27	650	2,240
"	10	27	600	1,945
"	w hf w hf	1	28	200	1,200
"	n e qr	1	28	400	790
"	7	28	400	1,400
"	8	28	550	2,600
"	s hf of s hf	3	29	150	625
"	4	37	1,800	14,550
"	east half	4	42	820 33	3,580
"	7	42	700	1,350
"	4	44	1,000	5,500
"	w hf of w hf	2	45	175	1,210
"	3	45	400	1,530
"	4	45	600	600
"	6	45	200	780
"	7	45	400	1,660
"	8	45	500	2,450
"	w½ & w½ of e½	1	46	402	2,250
"	3	46	300	875
"	4	46	400	1,925
"	5	46	400	1,075
"	south half	6	46	150	600
"	7	46	300	1,000
"	north half	8	46	200	710
"	10	46	400	1,335
"	3	47	175	575
"	4	47	250	830
"	5	47	250	810
"	6	47	175	620
"	7	47	175	695
"	8	47	250	1,210
"	9	47	360	1,690
"	10	47	275	930
"	south half	3	48	100	330
"	9	48	350	825
"	3	49	300	810

Same List—Continued.

Location.	Lots and parts of lots.	Block.	Valuation.	Amount sold for.
Chicago,	5	49	$400 00	$930 00
"	4	49	400	1,000
"	8	49	400	1,230
"	9	49	500	1,050
"	10	49	500	960
"	north half 1	50	375	1,110
"	south half 4	50	275	920
"	6	50	400	1,235
"	7	50	400	1,065
"	10	50	500	1,200
"	4	51	300	4,000
"	n½ & n½ of s½ 6	51	300	300
"	8	51	200	2,050
"	9	51	150	1,910
"	south half 10	51	350	400
"	1	51	500	4,135
"	3	51	500	2,530
"	5	51	250	2,650
"	1	52	500	4,200
"	2	52	350	5,150
"	6	52	150	1,700
"	south half 7	52	350	2,540
"	8	52	500	3,900
"	e hf of e hf 2	53	150	660
"	5	53	600	2,500
"	7	53	500	1,700
"	s hf of s hf 8	53	175	560
"	north half 4	54	400	2,050
"	5	54	500	2,510
"	w hf of w hf 6	54	100	535
	Fractional Section Fifteen.			
"	4	1	900	3,250
"	7	1	650	2,170
"	8	1	800	2,320
"	4	2	800	800
"	7	3	250	1,315
"	4	4	800	1,000
"	5	4	800	1,800
"	7	4	650	1,900
"	8	4	700	1,910
"	9	4	800	2,340
"	1	5	700	2,200
"	2	5	700	1,500

Same List—Continued.

Location.	Lots and parts of lots.	Block.	Valuation.	Amount sold for.
Chicago,	3	5	$500 00	$2,300 00
"	south half 4	5	250	1,070
"	5	5	500	1,550
"	south half 9	5	300	1,020
"	10	5	600	2,365
"	1	6	800	2,300
"	2	6	800	2,540
"	4	6	500	1,795
"	9	6	550	2,500
"	north half 2	7	275	1,450
"	5	7	300	1,050
"	1	8	500	1,480
"	2	8	500	1,830
"	3	8	300	1,315
"	4	8	400	980
"	6	8	300	300
"	7	8	300	900
"	10	8	400	1,230
"	2	9	400	1,040
"	south half 5	9	150	330
"	6	9	225	610
"	7	9	200	500
"	8	9	300	520
"	10	9	300	680
"	3	10	300	300
"	5	10	225	600
"	8	10	225	560
"	9	10	300	680
"	1	12	300	590
"	2	12	250	510
"	5	12	150	620
"	6	12	150	420
"	7	12	150	350
"	8	12	500	415
"	9	12	200	565
"	north half 10	12	75	190
"	s hf of s hf 10	12	60	255
"	1	13	150	465
"	5	13	100	385
"	8	13	100	385
"	9	13	125	465
"	10	13	125	475
"	1	16	125	435
"	2	16	123	370
"	3	16	100	390

Same List—Continued.

Location.	Lots and parts of lots.	Block.	Valuation.	Amount sold for.
Chicago,	4	16	$100 00	$385 00
"	5	16	100	380
"	7	16	100	300
"	8	16	100	400
"	9	16	112	420
"	10	16	112	400
"	1	17	112	380
"	2	17	112	400
"	3	17	100	320
"	4	17	100	360
"	5	17	100	315
"	8	17	100	370
"	9	17	105	345
"	9	18	105	335
"	1	20	100	360
"	2	20	100	410
"	3	20	100	320
"	4	20	100	325
"	5	20	100	325
"	6	20	100	330
"	7	20	100	330
"	8	20	100	350
"	9	20	100	330
"	10	20	100	310
"	1	21	75	255
"	2	21	75	255
"	3	21	75	225
"	4	21	75	255
"	5	21	75	225
"	13	21	75	233
"	1	23	75	315
"	2	23	75	165
"	3	23	75	95
"	4	23	75	95
"	5	23	75	85
"	6	23	75	100
	Lots in Lockport.			
Lockport,	2	63	100	160
"	6	68	50	50
"	2	83	75	75
"	6	100	80	235
"	2	105	75	380

Same List—Continued.

Location.	Lots and parts of lots.	Block.	Valuation.	Amount sold for.
	Lots in the original town of Ottawa.			
Ottawa,	1	24	$15 00	$15 00
"	2	24	20	20
"	3	24	20	20
"	4	24	25	25
"	1	25	25	25
"	4	25	50	50
"	4	27	40	40
"	1	28	20	20
"	2	28	20	20
"	1	35	20	20
"	2	35	20	20
"	3	35	20	20
"	1	36	50	50
"	4	37	50	50
"	s hf of s hf 1	38	15	15
"	2	38	50	50
"	3	38	50	50
"	4	39	50	50
	States' addition to Ottawa.			
"	4	55	300	300
"	11	59	100	200
"	6	44	300	550
"	4	85	400	700
"	8	85	300	525
"	5	90	350	565
"	9	90	350	350
"	*Lots in the town of La Salle.*			
La Salle,	5	119	550	550
"	12	119	500	555
"	10	120	650	1,006

List of lands sold October, 1843.

Date.	Description.	Section.	Town.	Range.	Acres of prairie.	Acres of timber.	Valuation.	Amount sold for.
October, 1843.	e hf of s w qr	5	33	2	80		$6 00	$8 00
"	n e qr of s e qr	17	33	4		40	8 00	8 75
"	n w qr of n w qr	27	34	4	40		6 00	6 00
"	e hf n w qr	11	33	5	80		6 00	6 00
"	w hf of n w qr	11	33	5	80		6 00	10 00
"	w hf of nw qr of n w qr	15	33	5		20	10 00	15 00
"	s e qr of n e qr	9	34	9	40		1 50	5 75
"	n fraction of n fractional half	21	34	9	75		2 00	10 75
"	s hf of s w qr of s e qr	35	36	10		20	10 00	20 25
"	s e qr of s w qr	27	37	10	40		1 25	20 75
"	n w qr of n w qr	11	38	13	40		1 25	6 25
"	w half n e qr	23	35	9	80		3 00	6 12½
"	w hf of sw qr	23	35	9	80		1 50	7 50

REPORT OF CHIEF ENGINEER.

CANAL OFFICE,
Lockport, December 1, 1844.

To Gen. J. FRY,
Commissioner of the Illinois and Michigan Canal:

SIR: My official connection with the canal having ceased, I beg leave to present the present condition of the work in the following

REPORT:

A very small amount of labor has been performed upon the canal since the date of my last annual report, (dated December 1st, 1842, and the seventh since the commencement of operations,) and the condition of the work consequently remains nearly the same as at that period. The only operations have been upon the "new lettings," or that part of the line between Dresden and Marseilles, and even here nothing has been done since early in the spring of 1843. The few contractors who, up to that time were still employed, were then notified to suspend their work, and all operations were accordingly suspended.

The increase in the aggregate estimates of the amount of work done upon the canal, over the amount given in my last report, not only includes the work performed since that time, but also the balances, which, on a final and more particular estimate have been found to be due contractors for work previously performed, as well as several items not before embraced, now taken from the books of the Secretary. In some instances, however, the jobs have been found over-estimated, and the necessary deductions made upon a final settlement.

The aggregate amount of work performed since the commencement of the canal is $4,737,250 81, which is an increase of $37,758 78 over the amount of estimates returned in my last report.

This work has been performed or estimated as follows, to-wit:

During the year ending	Dec. 1st,	1836,	- -	$39,260 58
"	"	"	1837,	- -	350,649 90
"	"	"	1838,	- -	911,902 40
"	"	"	1839,	- -	1,479,907 58
"	"	"	1840,	- -	1,117,702 30
"	"	"	1841,	- -	644,875 94
"	"	"	1842,	- -	155,193 33
"	"	"	1843,	- -	37,758 78
Total,	-	-	-	-	-	-	$4,737,250 81

This amount ($4,737.250 81,) shows the value of the work performed, estimated according to the terms of the contracts or agreements entered into between the contractors and Commissioners, the price paid for each

item having been governed by its value with reference to the *whole contract*, and not in all cases by the specific price of the item.

In pursuance of this principle, the excavation in deep cutting was estimated at the full price only when completed to bottom, and in a rateable proportion for the excavation nearer the surface. Or, for example, where the price was thirty-five cents per cubic yard for the whole excavation from surface to bottom, and twenty-five cents per yard was estimated for that which was within four or five feet of the surface, it was intended that the twenty-five cents for the surface work, should afford as large a profit in proportion to the amount, as the full price, or thirty-five cents would have done had the whole excavation to bottom been fully completed.

That the contractors did not feel themselves injured by this mode of estimating, is obvious, from the fact that they would otherwise have completed their work to bottom as they progressed, and thus have obtained the full contract price per yard. But on the contrary, a large part of the unfinished sections upon the Summit division, and especially upon the earth work, have not been excavated to the full depth, and consequently a large amount of *scaleage*, (by which is meant the difference between the contract and estimated prices,) had been retained to secure the completion of the contracts.

It will be seen by the foregoing explanation that the scaleage was *not* money which had been *earned* by the contractors. They had performed no labor which was an equivalent for it, and, as it was not legally or equitably due, it will readily be perceived that it could not be paid to the contractors without an express law for that purpose.

The Legislature of this State at its last session passed a law for a final settlement with all contractors upon the Illinois and Michigan canal. By this law they were to receive payment for their machinery, actual damages for depriving them of their contracts, per centage and *scaleage*. They were not, however, to receive any thing for "prospective damages, or profits which they might have made by completing their work."

This scaleage was probably allowed as an offsett for prospective profits, and contractors may not, perhaps, in the aggregate receive any more, if as much as the damages to which they are justly entitled for depriving them of their contracts. But the law operates very unequally.

The contractor who has excavated 50,000 cubic yards from the surface of his work at a cost not exceeding twenty cents per yard, or $10,000 for the whole, is, by this law, to receive as much money as the contractor who has excavated 50,000 cubic yards, completing the work from top to bottom as he progressed, at a cost of 30 cents per yard, or $15,000. Thus the contractor who operates *superficially* receives a bonus of $5,000.

Many of those who are unacquainted with the system upon which the business of the canal has been conducted, seem to have confounded scaleage with per centage. The former term has been explained—the latter means a certain per centum retained by the commissioners, (in accordance with existing contracts,) from the estimates of the Engineer. Those estimates, as before explained, are designed to represent the value per contract of the work performed.

The subject of scaleage and per centage is here alluded to, and briefly explained, in order to correct the false impressions which still prevail in

relation to it. The per centage, as has been seen, constitutes a part of the estimates, and since the passage of the law authorizing the same, has been paid by the Commissioner to the contractors. The scaleage constitutes an important part of the awards of the Board of appraisers.

In making up the total cost of construction some items of expense are included which are obtained from the books of the Secretary to the Board of Commissioners that have not been before embraced in my reports. The items, (consisting of the repairs and additional work upon the Fox river feeder dam, guard lock, and feeder, and of the cement houses.) constitute a necessary part of the expense of the canal; but as the work was of such a nature as to render it difficult for the Engineer to determine its value, the bills of cost were paid by the Commissioners without the regularly certified estimates of the Engineer, and the amounts consequently do not appear upon the books of my office.

The cost of superintendence, and the contingent expenses properly chargeable to the account of construction, is also taken from the books of the Secretary.

Total cost of construction exclusive of superintendence and contingencies, - - - -	$4,737,250 81
Total cost of superintendence and contingencies, -	242,652 93
Total, - - - - - -	$4,979,903 74

In my last annual report, I submitted several approximate estimates of the cost of completing the canal upon different plans. No further data having been obtained, (except in relation to a feeder from Fox river to the Summit,) and the Legislature having authorized the subscribers to the new loan to adopt any plan for the completion of the work that they may deem proper, which will not diminish its capacity for transportion, it would be improper for me at this time to present any further views upon this subject. But it is proper again to state, as I have done before, that whatever plan may be adopted, the longer the time before the work is commenced and completed, the greater will be the cost. Some of the materials prepared for structures, and paid for by the State, such as timber, plank, stone, cement, and sand, have already disappeared, and as has been ascertained in *some* instances, appropriated to individual purposes. In most cases, however, it is difficult or impossible to detect those who have been concerned in these *appropriations*, and the materials thus taken will be nearly a total loss. Much injury also to the materials which are still on the ground has been sustained, and further loss must, of course, be anticipated unless they are speedily used.

It is now five or six years since some of the sections of the canal were completed, and these, as well as many jobs which have been more recently finished, will require considerable repairs before the canal is filled and open for navigation. There have been ninety-seven sections completed upon the main line and Fox river feeder, making an aggregate length of over fifty miles. These sections include the greater part of the most expensive work to keep in repair which will be found on the line. Nearly all the heavy, and exposed embankments have been constructed, and upon these generally will the principal repairs be required. The settling, however, and washing of the banks and filling in of the bottom, have

been no greater than might reasonably have been anticipated, but unless something is done to place the work in a more favorable condition soon, the expense of repairs will be greatly augmented.

The structures which have been completed, (with the exception of the Pecumsagan dam which has been nearly destroyed by a flood,) have not, as yet, sustained any very material injury since they were finished. In a few cases, (but the amount in the aggregate is not great,) there has been some embankment washed away. Some of the stone used have been partially effected by the action of frost, but such as have been thus effected seem to have been unsound when placed in the work. All the quarries from which stone to any extent has been taken for the construction of structures upon the canal, were opened for this purpose, and in some few instances a material was used in the earliest stages of the work, which would not afterwards have been introduced, as it was ascertained that a better might have been obtained.

But when it is considered that no satisfactory tests had been made of the materials employed before it became necessary to use them in building the work, it may be considered fortunate indeed that no greater loss has been the result. In fact, it is believed, that in this respect the work here will compare favorably with any other in the country.

The foundations of nearly all the structures are excellent except that of Lock No. 14, which is decidedly bad, and has settled in such a manner as to injure the walls at the head of the Lock. A part of the breast wall will have to be taken up and relaid, and the hollow-quoins, particularly for the upper gates, will require considerable trimming to restore them again to a perpendicular.

This lock does not seem to have settled much, if any, for the last two or three years, nor is it supposed that it will settle much more.

The cement which was used in the construction of masonry has, in most instances, proved as good as was anticipated, and in some is now nearly as hard as the stone of which the structures are composed. In some few instances, however, from the inferiority of the sand, and probably from the improper proportions of sand and cement used, it has not *set* as well as was desirable.

There is still a large quantity of cement in the houses provided by the State for its storage, which was manufactured some time previous to the entire suspension of operations upon the canal. A large part of it is still uninjured, but some, and particularly that which has been kept in the smaller cement houses near the structures where it was to be used, is damaged and will be unfit for use.

It was mentioned in my last report that but little wood work, had up to that time, been used in any part of canal construction, and none has been used since. The most of the timber and plank in foundations is secured from decay by being constantly covered with water, and a part of the wooden culverts are preserved in the same manner, but the timber and plank delivered and not placed in the work will much of it be lost.

A particular description of the canal and the various structures upon it, could be drawn from the reports which have hitherto been made, but it may not be improper at this time to briefly recapitulate some of the former statements.

The length of the canal from Chicago river to its western termination, is 96.40 miles; and of that portion of the river which is provided with a tow-path, and which terminates on the south side of Randolph street in the city of Chicago, 4.11 miles. The distance from the south line of Randolph street to the pier is 84.100 of a mile; making the whole distance from the commencement of the south pier of the harbor in Chicago to the termination of the canal at the Illinois river, 101.35 miles.

The depth of water in the canal is to be not less than six feet, and the surface width sixty feet. The bottom width varies in the different kinds of excavation, but is no where less than thirty-six feet.*

The number of lift locks upon the canal is fifteen, and the whole amount of lockage 139.70 feet. There is also one guard lock at Juliet, and a lift lock upon the Ottawa side cut near the main line.

These locks are all of the same length and width, being 110 feet long between the gates, and eighteen feet wide; and all constructed or to be constructed of cut stone masonry.

The number of acqueducts upon the canal according to the present arrangement is three, besides the Pecumsagan, which is a combination of an acqueduct and dam. The abutments and piers (except for the Pecumsagan,) are of cut stone masonry. The trunks or superstructures are to be of wood.

The number of dams on the canal is five including that in connection with the Pecumsagan acqueduct.

Dams No. 1 and 2 at Juliet, which are the most important ones, are of cut stone. The first will be two hundred and fifty-six feet long and be raised sixteen feet above the bed of the river; and the second (which is completed,) is one hundred and ninety feet long and fourteen feet high above the foundation, which, for a part of its length, is below the bed of the river.

There will be a dam across Rock creek on section No. 88, composed of timber and rough stone, and one across the Du Page river on section No. 98 built of similar materials.

The dam across the Pecumsagan is to be built entirely of rough stone.

The number of stone culverts upon the canal is but ten,—a very small number for the length of line.

Each culvert is one hundred and three feet long exclusive of wings. All the face stone in spandrel, parapet and wing-walls are cut, except for the culvert on section No. 108, where the ring stone and coping only are cut,—the rest of the face being built of well hammered masonry. For the larger class of culverts the sheeting is all cut.

The whole number of wooden culverts is thirteen, and they are built where they will be entirely submerged.

The number of waste weirs estimated is seven, none of which are entirely completed.

The number of road and farm bridges to be built over the canal is twenty-four. These will all but two be used as road bridges. Their combined length will be 1,955 feet.

The abutments of the bridges have been estimated of hammer-dressed stone masonry.

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*See explanation in relation to the width from Chicago river to section fifteen should the depth be increased.

Besides these farm and road bridges over the canal, one road bridge has been estimated across the artificial channel for the Des Plains river opposite the mouth of the Sauganaskee swamp; one across the same river at dam No. 1, in Juliet; and one across the Du Page river where the canal crosses it upon section No. 98. The aggregate length of these three bridges is six hundred and seventy feet. There will also be several tow-path bridges, the aggregate length of which will be seven hundred and ten feet. None of the bridges have yet been commenced.

This statement in relation to structures upon the canal is made at this time to show, to some extent, the data upon which estimates of cost have been made—for there may hereafter be changes made, not only in the character of the work to be built, but in the number of some kinds of structures, as bridges, waste weirs, and culverts.

In the estimates of cost which have already been made, all the structures have been introduced which the officers on the work deemed necessary, and it has not been intended to make any part of the work any more expensive than the true interests of the State required.

The number of bridges which was included in the last estimates of costs submitted, was much greater than in the earlier estimates made, and all, it is believed, that would at present be required. But as the country becomes more settled and cultivated, it may be found necessary or expedient to increase the number. Further observation by other officers, may also lead to the conclusion that some modification of the plans in relation to other structures proposed may be made with advantage, and such change may either increase or diminish the cost.

In my last annual report, (Dec. 1842,) I considered at length the important subject of the demand for water to supply navigation on the Illinois and Michigan canal, and the supply which might be drawn from other sources than the lake should the high level be adopted for the completion of the canal, instead of the "Deep Cut." Since then an examination has been made for a feeder from Aurora, on Fox river, to the Summit division of the canal, and the result proved highly favorable. This renders it certain beyond a doubt that an adequate supply of water can be provided for the canal without drawing it from lake Michigan.

The feeder alluded to, if constructed, will be introduced into the main canal about four miles above Lockport at the same point as the Du Page feeder, with which it will be identical from the Du Page river to the junction with the main line of canal.

A hasty survey of this feeder was made at the request of Governor Davis and Capt. Swift, the agents of the bond-holders, to give them more certain data for their report, than could otherwise be obtained.

They requested of me estimates of the cost of completing the canal upon the various plans which had been suggested, and these estimates, of course, embraced the cost of all the contemplated feeders. But it must be understood that none of these routes for feeders had been examined with sufficient care to determine their final location, or to afford data for a very careful estimate of the expense.

The estimates made and submitted were as close an approximation to the cost as could be furnished from the data in my possession, and were sufficiently accurate to afford a fair comparison of the different plans. Variations in the routes of the feeders, and from the plans upon which

estimates have been made, may either increase or diminish the cost; but it is not probable that the expense will be much increased by any changes which will be likely to be made. If the expense be at all increased, it will probably be in consequence of more difficult excavation than is now anticipated.

In the main line, it is presumed, that no material changes will be made, and the nature of the work throughout is pretty well ascertained. No considerable alteration can, in fact, be adopted at this advanced stage of the work which would not destroy that uniformity in the character of construction which it has hitherto been deemed important to preserve. The company cannot, in accordance with the law, diminish the capacity of the canal, and it is presumed will not desire to render the work in any respect inferior to the original design.

The estimates of the cost of completing the canal are now given as they were submitted to Governor Davis and Capt. Swift whose very elaborate and valuable report contains a vast amount of exceedingly useful and interesting information in relation to the cost of completion, the various plans proposed, and other matters connected with the subject of the canal and canal property.

The amount of work performed is something greater than it was estimated when Gov. Davis and Capt. Swift were here, as there were at that time several unsettled accounts which have since been closed, and have, in the aggregate, added somewhat to the cost of the work performed. The statement marked A, accompanying this report exhibits the various items of work which make up the aggregate of expense from the commencement of operations in 1836, to the final suspension in 1843, and the abstracts appended thereto show the cost of the respective divisions and by whom the work was done.

In estimating the cost of completing the canal upon the original plan of the "deep cut," an additional depth of excavation has been estimated from section No. 1, to section No. 15, inclusive. The declivity given for this distance originally was 80.100 of a foot. In the estimate now submitted this declivity is taken away, making the depth of excavation at Chicago river 80.100 more than was first designed. This increases the average depth of cutting for this distance 40.100 of a foot. The estimate is, however, made, merely to increase the depth without changing the slopes of the old banks, so that the width at Chicago river, instead of being thirty-six feet at bottom as before, will be contracted to 32.8 feet.

The estimated cost of completing the canal on the different plans proposed is as follows, to-wit:

1st. The deep cut, or original plan with the trifling alteration before alluded to, $2,359,772 90.

2d. The Summit, elevated eight feet at Chicago river above the present level, and the waters of the Calumet, Du Page and Des Plains, introduced upon the Summit, and the Kankakee upon the Juliet level, $1,485,095 86.

3d. The same plan as the 2d with the addition of a feeder from Fox river at Aurora to the Summit will cost $1,772,035 53.

4th. Same plan as the third, except the Kankakee feeder is to be introduced upon the Dresden, instead of the Juliet level, will cost $1,733,240 52.

5th. The same plan as the third, with the omission of the Calumet feeder, will cost $1,618,641 08.

6th. The same plan as the fifth, except that the Kankakee will be introduced upon the Dresden level, will cost $1,579,846 07.

The above estimates of cost were the only ones submitted to the agents of the bond-holders, but plans differing from any proposed might be adopted. For instance, the size and declivity of the Fox river feeder could be increased, so that it might be unnecessary to introduce either the Calumet or Kankakee feeders, and the cost could probably be diminished by such an arrangement. But still there are many circumstances to be taken into consideration, which render it questionable whether the *cheapest* plan, which would give an adequate supply of water for the canal, should be adopted. By introducing *all* the feeders named a more certain supply of water would be provided, and a much larger water power created, and at the same time a greater length of navigable canal secured than by any other arrangement which could be adopted. The whole length of additional navigation by the construction of these navigable feeders, and forming a tow-path on the Calumet river to the State line, would be about seventy miles; or a distance more than equal to two-thirds of the main line of canal. It will, however, at once be seen that the construction of all these feeders with the necessary structures upon them, will add considerably to the annual expense of repairs and superintendence when the whole shall have been completed.

It is no part of my duty at this time to recommend any particular plan for the completion of the canal, and the subject has been alluded to merely to show that there are many important questions involved in it, and that a thorough investigation of facts will be necessary to secure the best possible plan. The discretionary powers given to the trustees of the Company will very properly be much greater than were conferred upon the Board of Commissioners, for it is obvious that the cost of the canal might have been made much less had not the *law* fixed the plan of certain parts of the work. For instance, the western terminus of the canal must be "at or near the mouth of the little Vermilion river on lands belonging to the State," and the expense encountered in consequence of this law has been much greater than any additional advantage which can possibly accrue to the State from the continuation of the canal below Utica.

I mention this error as the effect of the law authorizing the construction that it may not hereafter be charged as the fault of the officers who made the location. The law-makers were to blame for the restrictions imposed.

It has been mentioned in former reports that considerable expense has been encountered to confer additional value upon canal property at some particular points upon the canal, as at Lockport, Juliet, Ottawa, and La Salle. These are important town sites owned principally (except Juliet) by the State, and the money expended for the above mentioned object will unquestionably be much more than counter-balanced by the increased value of the property. But if the work were regarded with strict reference to the greatest economy in the construction of a canal for the purpose of *navigation only*, I am aware that the experienced engineer would pronounce some of the expenditures injudicious. It is, therefore more than probable that when the circumstances which gov-

erned the plans and location shall have been forgotten, an error in judgment or a want of skill may be charged, where, perhaps the interests of the State have been most efficiently subserved.

But be this as it may, there can be no question either now or hereafter that the importance of this route was such as to require an improvement of great capacity—at least equal in all respects to the canal commenced and so nearly completed. When the work was first commenced few doubted the ability of the State to finish it, and that she *had* the ability is proved by the fact that much more than enough in the aggregate to complete it was long since expended upon the various other improvements undertaken.

It is useless now to regret that operations were not concentrated upon one or two, or three improvements until these were finished. Had this been done the revenue arising from the tolls upon these improvements, and the sales of property for which a demand would then have been created, would have effectually preserved the credit of the State, and afforded means at some future period, perhaps, for prosecuting a more extensive system of public works than can now be anticipated.

The completion of the *canal*, it is now evident, is the only means of enabling our State to pay her debts and restore her credit; and if this work can be completed at any reasonable sacrifice, and a disposition is shown on the part of the State to do all that is in her power to meet existing liabilities, the object will undoubtedly be effected. But so long as the canal remains unfinished "shadows, clouds and darkness" must continue to rest upon us.

WM. GOODING,
Chief Engineer.

Statement A.

Account of work performed upon the Summit Division of the Illinois and Michigan Canal, from the commencement of operations thereon, up to the 1st December, 1843.

No of Section.	Description of work.		Amount of items.	Amt. of sections.
Chicago River,	Grubbing and clearing tow path,		-	$3,515 75
1	19,175 c yds. earth excavation at	17 cts.	$3,259 75	
	7,370 " "	17¼	1,271 32	
	10,880 " "	18½	2,012 80	
	5,991 " "	15½	928 60	
				7,472 47
	4,710 " "	27	1,271 70	
	18,800 " "	26	4,888 00	
	10,177 " "	25	2,544 25	
				8,703 95
		Total,	-	16,176 42
2	58,378 c yds. earth excavation at	24 cts.	14,010 72	
	27,850 " c clay at	65	18,102 50	
				32,113 22
3	40,836 c yds. earth excavation at	27 cts.	11,025 72	
	12,943 " c clay at	65	8,412 95	
	10,441 " do "	55	5,742 55	
				25,181 22
4	29,898 c yds. earth excavation at	25 cts.	7,474 50	
	31,688 " c clay do at	65	20,597 20	
				28,071 70
5	34,448 c yds. earth excavation at	25 cts.	-	8,612 00
6	29,509 c yds. earth excavation at	27½	-	8,114 97
	13,489 " "	25	3,372 25	
	44,313 c yds. cemented clay at	65	28,803 45	
				32,175 70
		Total,	-	40,290 67
7	33,895 c yds. earth excavation at	25 cts.	8,473 75	
	12,314 c yds. cemented clay at	50	6,157 00	
				14,630 75
8	12,126 c yds. earth excavation at	27 cts.	-	3,274 02
	23,000 " "	32	7,360 00	
	12,781 " "	25	3,195 25	
	11,000 c yds. cemented clay	65	7,150 00	
	18,700 " "	60	11,220 00	
				28,925 25
		Total,	-	32,199 27
9	35,584 c yds. earth excavation a	25 cts.		8,896 00
10	9,288 c yds. earth excavation at	25 cts.		2,322 00
	5,000 " "	30	1,500 00	
	3,200 " "	27	864 00	
	14,780 " "	25	3,695 00	
				6,059 00
		Total,	-	8,381 00
11	6,705 c yds. earth excavation at	25 cts.		1,676 25
	38,827 " "	27	10,483 29	

STATEMENT A—*Continued.*

No of Section.	Description of work.		Amount of items.	Amt. of sections.
11	13,601 c yds. cemented clay at	65	$8,840 65	
				$19,323 94
	Total,			21,000 19
12	14,578 c yds. earth excavation at	25 cts.	3,644 50	
	1,726 " cemented clay	50	863 00	
				4,507 50
13	29,210 c yds. earth excavation at	25 cts.		7,302,50
14	44,673 c yds earth excavation at	28 cts.	12,508 44	
	23,111 " cemented clay	65	15,022 15	
				27,530 59
15	8,500 c yds earth excavation at	30 cts.	2,550 00	
	93,499 " "	35	32,724 65	
	6,382 " cemented clay	57	3,637 74	
	5,062 " "	75	3,796 50	
	14 " detached rock	100	14 00	
	Paved water way.		80 00	
				42,802 89
16	85,375 c yds. earth excavation at	28 cts.	23,905 00	
	8,355 " cemented clay	75	6,266 25	
	12,920 " "	100	12,920 00	
	Extra expenses in passing road,		120 00	
	Bridge for road,		40 00	
				43,251 25
17	43,633 c yds. earth excavation at	25 cts.	10,908 25	
	971 " cemented clay	75	728 25	
				11,637 50
18	9,600 c yds gravel excavation at	30 cts.	2,880 00	
	7,461 " clay "	25	1,865 25	
	1,209 " cemented clay ex	75	906 75	
	49 " detached rock	125	61 25	
	Extra allowed by order of comr's. for sinking pit in cemented clay.		326 00	
				6,039 25
19	7,500 c yds. gravel excavation at	30 cts.	2,250 00	
	18,297 " clay "	25	4,574 25	
	115 " detached rock	125	143 75	
				6,968 00
20	6,500 c yds. gravel excavation at	30 cts.	1,950 00	
	17,341 " clay "	25	4,335 25	
	312 " cemented clay	75	234 00	
				6,519 25
21	8,540 c yds. earth excavation at	25 cts.	2,135 00	
	28 " detached rock	100	28 00	
				2,163 00
	6,940 " earth excavation at	25 cts.		1,735 00
	10,511 " "	25	2,627 75	
	3,064 " cemented clay	55	1,685 20	
	68 " detached rock	100	68 00	
				4,380 95
	Total,			8,278 95
22	27,713 c yds. earth excavation at	26 cts.	7,205 38	

STATEMENT A—*Continued.*

No of Section.	Description of work.		Amount of items.	Amt. of sections.
22	16,024 c yds. cemented clay	55 cts.	$8,813 20	
	62 " detached rock	100	62 00	
				$16,080 58
23	15,000 c yds. earth excavation at	25 cts.	3,750 00	
	20,223 " "	29	5,864 67	
	2,658 " cemented clay	65	1,727 70	
	Road and bridge,		535 98	
				11,878 35
	632 c yds. earth excavation at	26	164 32	
	2,333 " cemented clay	65	1,516 45	
	4,600 " "	75	3,450 00	
				5,130 17
	Total,		-	17,009 12
24	9,000 c yds. earth excavation at	28 cts.	2,520 00	
	13,525 " "	25	3,381 25	
	60 " detached rock	100	60 00	
				5,961 25
25	26,147 c yds. earth excavation at	25 cts.	6,536 75	
	14,023 " " cemented clay	60	8,413 80	
	139 " " detached rock	100	139 00	
				15,089 55
26	15,257 c yds. earth excavation at	26	3,966 82	
	10,835.1-5 " cemented clay	60	6,501 12	
	9 " detached rock	100	9 00	
				10,476 94
	1,508 " earth excavation	26	392 08	
	1,085 " cemented clay	60	651 00	
				1,043 08
	Total,		-	11,520 02
27	16,446 c yds. earth excavation at	23 cts.	3,782 58	
	4,744 " "	25	1,186 00	
	70 " cemented clay	60	42 00	
	535 " "	50	267 50	
	31 " detached rock	150	46 50	
	25 " "	100	25 00	
				5,349 58
28	15,491 c yds. earth excavation at	25 cts.		3,854 75
29	23,800 c yds. earth excavation at	28 cts.	6,426 00	
	9,312 " cemented clay	60	5,587 20	
	46 " detached rock	100	46 00	
				12,059 20
30	2,300 c yds. earth excavation at	28 cts	644 00	
	4,570 " "	26	1,188 20	
	30 " detached rock	100	30 00	
				1,862 20
31	10,940 c yds. earth excavation at	25 cts.		2,735 00
32	Grubbing and clearing per contract,		396 00	
	do do extra per estimate.		784 00	
				1,180 00
33	Grubbing and clearing in part,			350 00

STATEMENT A—*Continued.*

No of Section.	Description of work.		Amount of items	Amt. of sections.
33	23,688 c yds earth excavation at	31 cts.	$7,343 28	
	17,202 " cemented clay	65	11,181 30	
	863 " detached rock	100	863 00	
	Grubbing and clearing,		1,227 50	
				$20,615 08
	Total,			20,965 08
34	Grubbing and clearing,		1,700 00	
	537 c yds. earth excavation at	29 cts.	155 73	
	6 " detached rock	100	6 00	
				1,861 73
35	21,005.1-5 c yds earth excavation at	30 cts.	6,301 60	
	Grubbing and clearing,		1,200 00	
				7,501 60
36	23,181 c yds earth excavation at	30 cts.	6,954 30	
	9,944 " cemented clay	60	5,966 40	
	345 " detached rock	1 00	345 00	
				13,265 70
37	Grubbing and clearing,		550 00	
	31,191 c yds earth excavation at	35 cts.	10,916 85	
	14,726 " cemented clay	60	8,835 60	
	489 " detached rock	100	489 00	
	2,000 " ditch excavation	30	600 00	
	500 " puddling	15	75 00	
	1,330 " embankment	32	425 60	
				21,892 05
	430 " earth excavation	35	150 50	
	2,057 " cemented clay	60	1,234 20	
				1,384 70
	Total,			23,276 75
38	Grubbing and clearing.		1,000 00	
	29,082 c yds earth excavation at	41	11,923 62	
	10,799 " cemented clay	65	7,019 35	
	563 " detached rock	100	563 00	
	4,400 " embankment	40	1,760 00	
	860 " muck ditch excavation	35	258 00	
	156 " rock excavation	175	273 00	
				22,796 97
	513 c yds cemented clay at	65 cts.		333 45
	Total,			23,130 42
39	26,910 c yds earth excavation at	30 cts.	8,073 00	
	10,000 " cemented clay	75	7,500 00	
	6,131 " "	70	4,291 70	
	533 " detached rock	100	533 00	
	Grubbing and clearing,		1,800 00	
	Road,		400 00	
				22,597 70
40	15,592 c yds earth excavation at	34 cts.	5,301 28	
	11,292 " cemented clay	75	8,469 75	
	2,000 " detached rock	100	2,000 00	
	2,300 " ditch excavation	42	966 00	
	Grubbing and clearing,		350 00	
				17,087 03

STATEMENT A—*Continued.*

No of Section.	Description of work.		Amount of items.	Amt. of sections.
41	6,370 c yds earth excavation at	30 cts.	$1,911 00	
	780 " ditch excavation	25	195 00	
				$2,106 00
	112 " earth excavation	32	-	35 84
	Total,		-	2,141 84
River. Sect. (42 43 44)	Grubbing and clearing for emb't. 106 chs. at $10		1,060 00	
	1,800 c yds earth ex (mucking) at	25 cts.	450 00	
	50,328.11-100 " embankment	65	32,713 27	
	71,721 earth ex. in river channel	45	32,274 45	
	Grubbing and clearing for channel 11 acres at $60		660 00	
				67,157 72
45	4,848 c yds earth excavation at	20 cts.	969 60	
	5,972 " rock	1 12	6,688 64	
				7,658 24
	143 " spoils removed	20	28 60	
	1,470 " earth excavation	30	441 00	
	3,588 " rock "	1 60	5,740 80	
	22,530 " "	1 40	31,542 00	
	477 " protection wall	50	238 50	
	213 " puddling	60	127 80	
				38,118 70
	1,815 " rock excavation	1 60	2,904 00	
	4,797 " price increased from 140 to 160=20		959 40	
				3,863 40
	Total,		-	49,640 34
46	3,098 c yds earth excavation at	26 cts.	805 48	
	6,088 " rock "	1 26	7,670 88	
	1,827 " " "	1 23	2,247 21	
				10,723 57
	7,647 " earth "	26	1,988 22	
	33,644 " rock "	1 40	47,101 60	
				49,089 82
	Total,		-	59,813 39
47	Grubbing and clearing,		40 00	
	8,381 c yds earth excavation at	28 cts.	2,346 68	
	32,591 " rock "	1 40	45,627 40	
	1,868 " " drilled	50	934 00	
				48,948 08
48	6,130.29-100 c yds earth excavation at	28	1,716 48	
	13,427 " rock "	1 40	18,797 80	
	37,539 " " "	1 49	55,933 11	
	1,476 " " drilled	50	738 00	
	Extra work in trimming banks,		125 00	
				77,310 39
49	360.86-100 c yds earth ex ditch at	20 cts.	72 16	
	2,063 " prism	25	515 75	
	3,350 " rock ex.	1 34	4,489 00	
	697 " "	1 36	947 92	
				6,024 83
	2,246 " earth ex.	29	651 34	
	810 " rock ex.	1 45	1,174 50	
				1,825 84
	2,123 " earth ex.	29	615 67	

STATEMENT A—*Continued.*

No of Section.	Description of work.			Amount of items.	Amt of sections.
49	1,644 c yds. muck on T Path		15 cts.	$246 60	
	12,000 " rock excavation		1 60	19,200 00	
	21,821 " " "		1 40	30,549 40	
					$50,611 67
		Total,		-	58,462 34
50	Grubbing and clearing,			140 00	
	564 c yds earth excavation ditch at		22 cts.	124 08	
	14,409 " " prism,		25	3,602 25	
	437 " " "		28	122 36	
	6,463 " rock " "		1 37	8,854 31	
	340 " do " "		1 50	510 00	
	1,840 " do " "		1 31	2,407 31	
	280 " do " "		1 33	372 40	
	456 " do " "		1 45	661 20	
					16,793 91
	Grubbing and clearing,			59 00	
	2,649.78-100 c yds earth excavation at		32¾	867 80	
	9,614 " embodied rock		1 83	17,593 62	
	47,684.75-100 " "		1 60	76,295 60	
	Per centage retained in original contract,			2,308 80	
	Road bridge and extra trimming of banks,			227 24	
					97,352 06
		Total,		-	114,145 97
	(Note.—The amount covered by the certificates of the engineer on sec. 50, is $114,145 97 cts., but $2,308 80 cts. the per centage under L. C. Hugunin's con't. was not paid to Hugunin but was embraced in Rodgers' contract and included in his final certificate.)				
51	Grubbing and clearing,			200 00	
	1,114 c yds earth excavation in ditch at		55	612 70	
	13,818 " " prism		35	4,836 30	
	16,262 " rock " do		1 60	26,019 20	
					31,668 20
	696 " earth " do		30	208 80	
	16,262 " rock " do		1 80	29,271 60	
	25,738 " do " do		1 64	42,210 32	
	3,030 " do " do		1 50	4,545 00	
	4,000 " do drilled		50	2,000 00	
					78,235 72
		Total,		-	109,903 92
52	788 c yds earth excavation ditch at		60 cts.	472 80	
	6,684 " " prism		30	2,005 20	
	2,364 " rock " "		1 60	3,782 40	
					6,260 40
	8,437 " earth excavation		30	2,531 10	
	1,304 " " " tow path		15	195 60	
	600 " rock "		1 60	960 00	
	23,966 " " "		1 50	35,949 00	
	2,348 " " drilled		50	1,174 00	
					40,809 70
		Total,		-	47,070 10
53	370 c yds earth excavation ditch at		29 cts.	107 30	
	3,333 " " prism		29	966 57	
	5,817.91-100 rock " do		1 10	6,399 70	
	3,325.11-100 " " do		1 15	3,823 87	
					11,297 44
	1,540 " " " do		1 10	1,694 00	
	900.13-100 earth " do		25	225 03	

STATEMENT A—*Continued.*

No of Section.	Description of work.			Amount of items.	Amt. of sections.
	48,960.65-100 c yds. rock ex. prism		1 42 cts.	$69,524 12	
					$69,749 15
			Total,	-	82,740 59
54	137 c yds earth excavation ditch at		40 cts.	54 80	
	727 " " " prism		35	254 45	
	8,405 " rock " do		1 65	13,868 25	
	5,852 " earth " do		36	2,106 72	
	43,729 " rock " do		1 62	70,840 98	
	2,117 " earth " tow path		25	529 25	
					87,654 45
55	597 c yds earth excavation at		38 cts.	226 86	
	1,725 " rock "		1 60	2,760 00	
	4,752 " earth "		36	1,710 00	
	6,200 " rock "		1 62	10,044 00	
	9,001 " " "		1 50	13,501 50	
	909 " " drilled		50	454 50	
					28,696 86
56	212.88-100 c yds earth ex ditch at		16 cts.	34 06	
	2,754 " " " prism		23	633 42	
	10,945 rock " "		1 75	19,153 75	
	44.95-100 " earth "		23	9 34	
	1,177 " " "		24	282 42	
	24,000 " rock "		1 75	42,000 00	
	5,498 " " " "		1 60	8,796 80	
	500 " " drilled		60	300 00	
					71,209 85
57	157.80-100 c yds earth ex ditch at		16 cts.	25 25	
	520 " " prism		24	124 80	
	6,827 do rock " "		1 75	11,947 25	
	3,370 do earth " "		24	808 80	
	1,056 do " " tow path		15	158 40	
	35,000 do rock " prism		1 75	61,250 00	
	5,386 do " " do		1 60	8,617 60	
	990 do " drilled		60	594 00	
					83,526 10
58	2,290.30-100 c yds earth excavation at		33 cts.	755 80	
	2,537 rock do		1 29	3,272 73	
	846.5-100 " " do		1 31	1,108 32	
	2,730 " " do		1 35	3,685 50	
	5,175 " " do		1 39½	7,219 12	
	775 " " do		1 59	1,232 25	
	407 " " do		1 64	667 48	
	540 " " do		1 70	918 00	
					18,859 20
	737.56-100 c yds. earth ex.		33	243 39	
	48,066.73-100 " rock ex.		1 50	72,100 09	
	Scaleage on rock ex retained in original contract,			1,411 67	
					73,755 15
					92,614 35
			Total,	-	
59	1,284 c yds earth excavation at		28 cts.	359 52	
	652 " rock "		1 20	782 40	
					1,141 92
	2,527 " earth "		33	833 91	
	11,000 " rock "		1 50	16,500 00	
	14,624 " " "		1 40	20,473 60	
	2,040 " " drilled		50	1,020 00	
				38,827 51	

STATEMENT A—*Continued.*

No of Section.	Description of work.			Amount of items.	Amt. of sections.
				$38,827 51	
	Deduct for dam on sec No. 58,			100 00	
					$38,727 51
		Total,		-	39,869 43
60	3,977 c yds earth excavation at		25 cts.	994 25	
	26,440 " rock "		1 25	33,050 00	
					34,044 25
	29,168.84-100 " "		1 42	41,419 75	
	Deduct for dam,			100 00	
					41,319 75
		Total,		-	75,364 00
61	7,955 c yds earth excavation at		18 cts.	1,431 90	
	3,200 " rock "		1 25	4,000 00	
	1,000 " " "		1 20	1,200 00	
	18,540 " " "		1 12	20,764 80	
					27,396 70
	204.76-100 " earth ex.		18	36 86	
	35,497.22-100 " rock ex.		1 42	50,406 05	
					50,442 91
		Total,		-	77,839 61
62	612 c yds earth excavation at		18 cts.	110 16	
	500 " rock "		98	490 00	
	2,492 " " "		1 04	2,591 68	
					3,191 84
	3,409 " earth "		38	1,295 42	
	16,516 " rock "		1 25	20,645 00	
	10,115 " " "		1 10	11,126 50	
					33,066 92
		Total,		-	36,258 76
63	4,454 c yds earth excavation at		37 cts.	1,647 98	
	11,361 " rock "		1 25	14,201 25	
	23,779 " " "		1 20	28,534 80	
					44,384 03
64	401.87-100 c yds earth ex ditch at		14 cts.	56 26	
	2,172.1-100 " " prism		18	390 96	
	1,251.98-100 rock " do		60	751 19	
					1,198 41
	3,275 " earth " do		16	524 00	
	1,200 " rock " do		1 00	1,200 00	
	1,200 " " " do		97	1,164 00	
	442 " " " do		1 10	486 20	
	4,000 " " " do		88	3,520 00	
	3,000 " " " do		92	2,760 00	
	5,754 c yds rock excavation		93	5,351 22	
					15,005 42
	766 " earth "		16	122 56	
	37,000 " rock "		1 20	44,400 00	
	2,428 " " "		1 15	2,792 20	
					47,314 76
		Total,		-	63,518 59
65	147.57-100 c yds earth ex ditch at		13 cts.		19 18
	80 " " "		20	16 00	
	1,953.50-100 " " prism		25	488 37	
	160 " " "		12½	20 00	

STATEMENT A—*Continued.*

No of Section.	Description of work.		Amount of items.	Amt. of sections.
65	136 c yds. rock ex. prism	1 00	136 00	
				660 37
	5,150 " earth " do	20	1,030 00	
	3,769 " rock " do	1 00	3,769 00	
				4,799 00
	3,063.9-100 c yds. earth ex. "	20	612 62	
	585.20-100 " " in ditch	20	117 04	
	26,442.28-100 " rock prism	1 00	26,442 28	
	2,573.28-100 " wall	50	1,286 64	
				28,458 58
	Total,		-	33,937 13
66	5,733 c yds earth excavation at	25 cts.	1,433 25	
	1,264 " "	12½	158 00	
	1,442 " " ditch	20	288 40	
	1,540 " embankment	30	462 00.	
	Grubbing and clearing,		15 00	
				2,356 65
	do do (est)		50 00	
	16,833.70-100 c yds earth ex in prism at	20 cts.	3,366 74	
	7,395.27-100 " " ditch	20	1,479 05	
	17,496.61-100 " rock prism	100	17,496 61	
	4,056.39-100 " wall	50	2,028 19	
	3,360.87-100 " " (est)	1 25	4,201 08	
	4,314.38-100 c yds embankment at	30 cts.	1,294 31	
	741.20-100 " do removed for wall	10	74 12	
	1,143.26-100 " " " change of curve	15	171 48	
	1,153.67-100 " gravel put on top of t p	1 00	1,153 67	
	5,324 puddled earth	50	2,662 00	
	3,000 rock removed extra distance on account of water way	25	750 00	
				34,727 25
	Total,		-	37,083 90
67	18,825.50-100 c yds earth excavation at	16 cts.	3,012 08	
	1,243 do do in culv't. ditch	25	310 75	
	180 do rock do	1 25	225 00	
	347 do do in culvert pit	1 25	433 75	
	15,219 do rock ex in prism	80	12,175 50	
	1,884 do earth ex in outside ditch	20	376 80	
	4,260.67-100 " wall	50	2,130 33	
	1,450 c yds. lining puddled	60	870 00	
	9,500 do filling at head of basin	25	2,375 00	
	2,151 do rock drilled	27	580 77	
				22,489 98
68	22,182 c yds earth excavation at	18 cts.	3,992 76	
	30,760 " rock do	80	24,608 00	
	2,400 " wall from quarry	1 25	3,000 00	
	5,734 " do prism excavation	31	1,777 54	
	2,736 " lining in berm bank	40	1,094 40	
	5,758 " lining puddled	55	3,166 90	
	500 " embankment from quarry	10	50 00	
	6,000 " embankment	28	1,680 00	
	1,880 " do in bridge landing	28	526 40	
	355 " spoils rem'd to make room for embankment	10	35 50	
	9,700 " filling in lots and streets	22	2,134 00	
	Allowance on extra coping of walls,		150 00	42,215 50

STATEMENT A—*Continued.*

Account of Sag and Big Run Ditch.

14,353.13-100	c yds	earth excavation at	20 cts.	$2,870 62
4,475.73-100	do	" do	25	1,118 93
3,066.16-100	do	rock do	50	1,533 08
4,345.51-100	do	" do	60	2,607 30
4,290.21-100	do	" do	70	3,003 14
6,456.57-100	do	" do	75	4,842 42
2,640.23-100	do	" do	80	2,112 18
2,984.56-100	do	embankment	20	596 91
55	do	excavation of earth deposited by flood	50	27 50
156	do	bank removed	25	39 00
75	do	rock and gravel excavation to turn branch	90	67 50
102	do	deposit removed	20	20 40
539	do	spoil bank removed	12	64 68
340	do	excavation and emb't to turn Brewer's run	20	68 00
458.52-100	do	wall (dry)	40	183 40
		Grubbing and clearing,		72 00
			Total,	19,227 05

Account of protection on Summit Division.

Sec. 46	1,194 c yds. dry wall, at	45 cts.	$537 30	
	934 " puddle	100	934 00	
		Total,		1,471 30
47 & 48	3,307.21-100 c yds. dry wall	45	1,488 24	
	2,325.94-100 " puddle	1 00	2,325 94	
		Total,		3,814 18
49	531 c yds puddle from bluffs	1 00	531 00	
	543.70-100 " " canal	75	407 77	
	1,485.83-100 " dry wall	45	656 47	
		Total,		1,595 24
50	682.94-100 c yds. dry wall	45	307 32	
	164.60-100 " puddle "	1 00	164 60	
	329.28-100 " " "	75	246 96	
		Total,		718 88
51 & 52	2,619.92 c yds. dry wall	45	1,078 96	
	2,132.42 " " puddle	75	1,599 31	
		Total,		2,778 27
53	2,375.09-100 c yds. dry wall	45	1,068 79	
	1,707.93-100 " puddle	1 00	1,707 93	
		Total,		2,776 72
54 & 55	4,913.98-100 c yds. dry wall	43	2,211 29	
	2,180 " puddle	1 00	2,180 00	
	1,180 " "	70	826 00	
		Total,		5,217 29
56 & 57	4,804.70-100 c yds. dry wall	45	2,162 11	
	3,533.61-100 " puddle	1 00	3,533 61	
		Total,		5,695 72
58 & 59	4,885.60-100 c yds. dry wall	45	2,198 52	
	3,206.12-100 " puddle	1 00	3,206 02	
		Total,		5,404 54
60	1,266.52-100 c yds. dry wall	45	569 93	
	875.24-100 " puddle	1 00	875 24	
		Total,		1,445 17
	Total amount of protection on Summit Division.			30,917 31

STATEMENT A—*Continued.*

Description of work.				Amount.	Total.
South branch and Summit Ditches.					
2,451	cubic yards, earth excavation, at		16 cts.		$392 16
19,643.94	"	"	22	$4,321 66	
64,578.30	"	"	25	16,144 57	
10,297.54	"	"	30	3,089 26	
					23,555 49
	Total,				$23,947 65
Archer and Connection Ditch.					
854	cubic yards earth excavation, at		15 cts.	$128 10	
447.77	"	"	30	134 33	
3,599.18	"	"	20	719 83	
493	" deposite removed,		30	147 90	
					$1,130 16
Work performed to turn Big Run.					
	Grubbing and clearing, (estimated,)			$5 00	
40.66	cubic yards, muck ditch excavation, at		22 cts.	8 95	
8,548.90	" embankment,		22	1,880 76	
					$1,894 71

Middle Division.

No. of Section.	Description of work.	Amount of items.	Amount of section.
69	11,368.69 cubic yards earth excavation, at 20 cts.	$2,273 74	
	22,658.84 " rock " $1 00	22,658 84	
	2,932.42 " dry wall, 1 30	3,812 14	
	3,771.07 " embankment, 35	1,319 88	
	1,854.13 " esti'd as lining, 45—35=10	185 41	
			$30,250 01
70	27,588.88 cubic yards, earth excavation, at 35 cts.	9,656 11	
	3,286.08 " rock " 90	2,957 47	
	1,233.61 " dry wall from prism, 50	616 80	
	5,514.25 " " " quarry, $1 30	7,168 53	
	6,797.02 " embankment 30	2,039 11	
	4,742.74 " do. from ex. of fr. run, (est) 12	569 13	
	1,719.22 " rubbish of quarry, (est.) 10	171 92	
	Grubbing & clearing section, (est)	500 00	
	Extra chopping and clearing,	75 00	
			23,754 07
	Fractional Run.		
	4,209.34 cubic yards earth excavation, at 35 cts	1,473 27	
	384.61 " dry wall, $1 30	499 99	
	251.99 " dry masonry in dams, 4 00	1,007 96	
	195 " filling above dams, 30	58 50	
	50 " deposite removed, 30	15 00	
	Grubbing and clearing, (est.)	75 00	
			3,129 72
	Total,	-	$26,883 79

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
71	10,812.98 cubic yards, earth excavation, at 25 cts.	$2,703 24	
	21,097.86 " rock, $1 00	21,097 86	
	3,412.15 " dry wall, 50	1,706 07	
	6,982.71 " embankment, 35	2,443 96	
	341.21 " Rock ex. by change of slopes, 1 00	341 21	
			$28,292 34
72	19,035.53 cubic yards, earth excavation, at 30 cts.	5,710 66	
	2,316.77 " rock " 90	2,085 09	
	30 " detached rock, 80	24 00	
	11,184.57 " embankment, 55	6,151 51	
	502 " dry wall from stone procured from canal, 50	251 00	
	6,086.42 " do. from stone not procured from canal, $1 30	7,912 35	
	Grubbing and clearing (est.)	18 00	
	25 cubic yards ditch excavation to turn small creek, 30 cts.	7 50	
			22,160 11
73	5,988.84 cubic yards earth excavation, at 23¾ cts.	1,422 35	
	13,380.20 " rock, $1 04½	13,982 31	
	2,610 " dry wall from prism, 47½	1,239 75	
	5,553.56 " " quarry, 1 04½	5,803 47	
	12,732.66 " embankment 76	9,676 82	
	Grubbing and clearing,	475 00	
	1,019.33 cubic yards, rip-rap protection, 57	581 02	
			33,180 72
	Forming a new channel for river.		
	3,474.27 cubic yards earth ex. (est.) 23 cts.	825 14	
	199.73 " rock " " 60	208 72	
	2.50 " detached rock, 75	1 88	
			1,035 74
	Total,	–	$34,216 46
74	7,280.89 cubic yards earth excavation, at 18 cts.	1,310 56	
	441.88 " gravel, (est.) 40	176 75	
	21,788.80 " rock, 99	21,570 92	
	9,382.73 " dry wall, 75	7,037 04	
	10,830.15 " clay embankment, 27	2,924 14	
	2,708.87 " rubbish " 27	731 39	
	762.80 " earth ex., (est.) 25	190 70	
	Grubbing and clearing,	500 00	
	1,448.40 cubic yards rock excavation, at $1 25	1,810 50	
	Extra work.		
	35.21 cubic yards earth excavation, (est.) 18 cts.	6 34	
	27.49 " rock " " 99	24 74	
	409.77 " dry wall, " 75	307 32	
	1,650.29 " embankment, " 2	330 05	
	528 " do removed, 25	132 00	
	200 " earth and rock remo'd for wall, 25	50 00	
	73.90 " dry wall removed, 10	7 39	
	97.95 " ex. of old mill dam, $1 00	97 95	
	Grubbing and clearing,	50 00	
			37,257 79

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
75	4,636.29 cubic yards earth excavation, at 18 cts.	$834 52	
	5,666.62 " rock " 95	5,383 29	
	16,227.23 " dry wall, $1 49	24,178 57	
	17,107.08 " clay embankment, 39	6,687 36	
	27,455.32 " rubble " 39	10,707 57	
	1,885.39 " earth excavation in ditch, 25	471 35	
	3,550.44 " rock, " " 1 25	4,438 05	
	141.39 " rubbish removed, 25	35 35	
	Grubbing and clearing per contract,	250 00	
	do do extra,	50 00	
			$53,036 06
76	3,687.31 cubic yards earth excavation at 40 cts.	1,474 92	
	12,813.88 " rock " $1 50	19,220 82	
	7,069.83 " dry wall, 75	5,302 37	
	5,720.04 " clay embankment, 40	2,288 01	
	7,579.45 " rubbish do 40	3,031 78	
	101.72 " rubbish removed by change of line, (est.) 15	15 26	
	182.77 " ex. of bridge abutm't, " 50	91 38	
	Culvert on west side of river, "	25 00	
	Removal of mill dam, "	87 75	
	Grubbing and clearing, "	50 00	
			31,587 29
77	1,658.22 cubic yards earth excavation, at 15 cts.	248 73	
	*22,873.37 " rock, do (est.) 90	20,586 03	
	5,114.40 " slope wall, 70	3,580 08	
	12,836.84 " clay embankment, 60	7,702 10	
	6,085.21 " rock do 52	3,164 31	
	689.99 " excavation of gravel under water, (est.) $1 00	689 99	
	225 " slope wall laid under water by change of line, (est.) 50	112 50	
	384.47 " rock embankment removed by change of line, (est.) 75	288 35	
	Grubbing and clearing, "	100 00	
			36,472 09
78	242.14 cubic yards earth excavation, at 20 cts.	48 43	
	1,231.72 " rock " 75	923 79	
	4,569.75 " do " 70	3,198 82	
	3,445 " rock embankment, 45	1,550 25	
	752 " stone quarried for wall, 80	601 60	
	Grubbing and clearing, (est.)	20 00	
			6,342 89
	1,110.83 cubic yards muck excavation, at 20 cts.	222 16	
	195.08 " ex. under water, (est.) 75	146 31	
	80.73 " spoils of old line removed, (est.) 20	16 14	
	12,659.94 " rock excavation, 75	9,494 95	
	3,908.25 " do embankment, 50	1,954 12	
	16,698.31 " earth do 60	10,018 98	

*This item was estimated at ninety cents per yard, by special agreement of the parties to the contract.

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
78	3,244.18 cubic yards dry wall for prism, at 70 cts.	$2,270 89	
	1,891.56 " do quarry, $1 25	2,364 45	
	Grubbing and clearing,	100 00	
	Scalcage on original contract,	739 13	
	*Percentage on do	952 10	
			$28,279 32
	Total,		34,622 21
79	1,706.25 cubic yards earth excavation, at 20 cts.	341 25	
	3,569.94 " rock do 70	2,498 96	
	7,074 " do embankment, 32	2,263 68	
	2,714.60 " earth do 40	1,085 84	
	817.06 " dry wall from prism, 75	612 80	
	2,724.65 " do quarry, $1 15	3,133 35	
	Three days mowing, 1 50	4 50	
	Grubbing and clearing,	8 00	
			9,948 38
	537.13 cubic yards earth excavation in muck ditch, 20 cts.	107 43	
	945.12 " earth and detached rock ex. (est.) 35	330 79	
	1,802.64 " rock excavation, 70	1,261 85	
	5,343 " embankment, (rock) 50	2,671 50	
	17,271.35 " do (earth) 50	8,635 67	
	842.36 " dry wall from prism, 75	631 77	
	3,759.11 " do quarry, $1 25	4,698 89	
	97 " earth embankment removed to increase the width, (est.) 20	19 40	
	Grubbing and clearing, (est.)	12 00	
	Scalage on original contract,	756 14	
	†Percentage on do	1,493 01	
			20,618 45
	Total,		30,566 83
80	1,860.32 cubic yards, earth excavation, at 20 cts.	372 06	
	5,755.12 " embankment, 20 cts.	1,151 02	
	Stone drain as per July estimate,	5 00	
	One days mowing,	1 50	
			1,529 58
	6,603.19 cubic yards earth ex, in prism, at 20 cts.	1,320 64	
	53.16 " do ditch, (est.) 20	10 63	
	182.70 " rock excavation, $1 00	182 70	
	18,404.32 " embankment, 25	4,601 08	
	121.22 " do removed by change of line, (est.) 12	14 55	
	2,187.73 " lining, 70	1,531 41	
	preparing bottom and berm slope for lining, (est.)	50 00	
			7,711 01
	Total,		$9,240 59

*This item of percentage was estimated but not paid under first contract.

†This item was included in estimate under first contract but not paid.

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
81	10,570.22 cubic yards earth excavation, at 22 cts.	$2,325 45	
	21,178.20 " embankment, 28	5,929 89	
	6,563.04 " lining, 50	3,281 52	
	Extra work to prepare the berm bank to receive the lining, (est.)	40 00	
			$11,576 86
82	8,027.68 cubic yds. earth exca'n in prism, at 22 cts.	1,766 09	
	7,491.33 " do in extra width, (est.) 25	1,872 83	
	30,887.84 " embankment, 31	9,575 23	
	13,687.09 " lining, 42	5,748 58	
	Four days mowing, $1 50	6 00	
			18,968 73
83	7,292 cubic yds. earth exca'tion in prism, at 27 cts.	1,968 84	
	11,937.86 " do in extra width, (est.) 25	2,984 46	
	25,222.86 " embankment, 21	5,296 80	
	8,013.22 " lining, 43	3,445 68	
	61.50 " detached rock exca'tion, 75	46 12	
			13,741 90
84	11,520.76 cubic yds. earth ex. in prism, at 20 cts.	2,304 15	
	18,193.31 " do in extra width, (est.) 25	4,543 33	
	8,993.72 " embankment, 27	2,428 30	
	109 " detached rock exca'tion, 50	54 50	
	Clearing section, (est.)	10 00	
			9,345 28
85	2,104 cubic yards earth ex'tion in prism at 20 cts.	420 80	
	1,098.03 " do in extra width, 25	274 51	
	67.14 " detached rock ex'vation, 75	50 35	
	34,313.79 " embankment, 25	8,578 45	
			9,324 11
86	6,576.24 cubic yards earth excavation, at 20 cts.	1,315 25	
	185.38 " detached rock ex. 75	139 03	
	20,957.96 " embankment, 25	5,239 49	
	Two days mowing, $1 50	3 00	
			6,696 77
87	6,095.46 cubic yards earth excavation, at 25 cts.	1,523 86	
	56.22 " detached rock do 75	42 16	
	871.10 " slate rock, (est.) do 50	435 55	
	2,424 " embodied rock do 60	1,454 40	
	5,892.66 do estimated above the contract price on account of change of line, 90	5,303 39	
	2,930.74 " lining, (est.) 40	1,172 30	
	18,305.60 " embankment, 25	4,576 40	
	Grubbing and clearing,	50 00	
	Six days mowing, (est.) 1 50	9 00	
			14,567 06
88	Grubbing and clearing per contract,	400 00	
	Four acres extra chopping and clearing, (estimated,) $15 00	60 00	
	8,622.42 cubic yards earth excavation, 20 cts.	1,810 71	
	3,913 " rock do 60	2,347 80	
	108.72 " do in consequence of change of line, 1 00	108 72	
	10,682.34 " embankment, 25	2,670 58	

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
88	1,980 cubic yards lining, (estimated) at 50 cts.	$990 00	
	155 " detached rock excavation, 85	131 75	
	46.65 " ditch ex. at Rock run, 35	16 33	
	106.33 " earth ex. by change of line, (est.) 30	46 11	
			$8,608 58
89	Grubbing and clearing,	300 00	
	10,134.24 cubic yards earth excavation, at 23 cts.	2,330 87	
	24 " detached rock exca'tion, 50	12 00	
	29,931 " embankment, 27	8,081 37	
			10,724 24
90	18,661.89 cubic yards earth excavation, at 25 cts.	4,665 47	
	4,123.14 " embankment, 25	1,030 78	
	179 " detached rock ex. 50	89 50	
	22 " do 50	11 00	
			5,796 75
91	3,901.50 cubic yards earth excavation, at 15 cts.	585 22	
	13,481.03 " do do 15	2,022 15	
	5,576.65 " embankment, 16	892 26	
	293.17 " earth excavation in road way left on Sec. 90, 25	73 29	
			3,572 92
92	14,121.83 cubic yards earth excavation, at 22 cts.	3,106 80	
	40 " detached rock ex. (est.) 60	24 00	
	12,059.77 " embankment, 25	3,014 94	
	117 " stone for wall not used, (est.) 50	58 50	
	Grubbing and clearing,	150 00	
			6,354 24
93	Grubbing and clearing,	100 00	
	25,551.38 cubic yards earth excavation, at 25 cts.	6,387 84	
	14,737.02 " embankment, 20	2,947 40	
	88 " stone delivered for wall, 50	44 00	
			9,479 24
94	Grubbing and clearing,	320 00	
	2,532.36 cubic yards earth excavation, 15 cts.	379 85	
	6,457 " embankment, 18	1,162 26	
			1,862 11
95	Grubbing and clearing,	150 00	
	13,850.81 cubic yards earth excavation, at 15	2,077 62	
	6,056 " do removed extra distance by direction of Engineer, 18	1,090 08	
			3,317 70
96	Grubbing and clearing,	150 00	
	35,676.80 cubic yards earth excavation, at 28 cts.	9,989 50	
	145 " do cem'd clay and gravel, 80	116 00	
	435.50 " ditch excavation, 15	65 32	
	4,531.21 " embankment, 30	1,359 36	
	3,180.62 " lining, 75	2,385 46	
	1,000 " do 50	500 00	
	954 " filling over lining, (est.) 25	238 50	
	Two paved water ways, $10 00	20 00	
	Extra allowance upon 2,370 c. yards ex. to make room for lining, (est.) 12	284 40	
			15,108 54

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
97	34,111.71 cubic yards earth excavation, at 30 cts.	$10,233 51	
	24,545.48 " embankment, 25	6,136 37	
	1,012.50 " do removed by change of line, 15	151 87	
	267 " embankment rejected by change of line, 25	66 75	
	1,610 " lining, (est.) 50	805 00	
	700 " do do 75	525 00	
	Extra allowance upon embankment in consequence of change of plan from double to single embankment, 24,500 cubic yards, at 2	490 00	
			$18,408 50
98	Grubbing and clearing,	200 00	
	do do extra, (est.)	25 00	
	12,502.47 cubic yards earth excavation, at 23 cts.	2,875 57	
	2,066 " do lost by change of line, 23	475 18	
	1,730.43 " do cem'd clay and gravel 48	830 61	
	26,982.22 " embankment, (est.) 28	7,555 02	
	940 " do removed by change of line, (est.) 20	188 00	
	4,376 " do rejected by a change of line, 23	1,006 48	
	798 " lining, (est.) 55	438 90	
			13,594 76
99	Grubbing and clearing, (est.)	34 00	
	14,455.36 cubic yards earth excavation, at 20 cts.	2,891 07	
	5,852.54 " embodied rock ex. 85	4,974 66	
	85 " detached do (est.) 75	63 75	
	474 " slate do (est.) 50	237 00	
	4,414.48 " slate & cem'ted clay, (est.) 60	2,648 69	
	2,499 " earth ex. extra by change of		
	6,413.17 " line, (est.) 20	499 80	
	6,413.17 " embankment, 25	1,603 29	
	786.93 " spoil bank removed, (est.) 20	157 38	
			13,109 64
100	Grubbing and clearing,	400 00	
	9,260.78 cubic yards earth excavation, at 20 cts.	1,852 15	
	1,111.08 " rock do $1 68	1,866 61	
	19,619.54 " embankment, 20	3,923 91	
			8,042 67
101	Grubbing and clearing,	10 00	
	781.02 cubic yards earth excavation, at 20 cts.	156 20	
	600.80 " embankment, 25	150 20	
			316 40
	11,002.66 " earth excavation, 20	2,200 53	
	189.42 " do in ditch, 12	22 73	
	15,436.10 " embankment, 25	3,859 02	
	Grubbing and clearing,	680 00	
	$2\frac{1}{4}$ acres extra chopping and clearing, $20 00	45 00	
			6,807 28
	Total,	–	$7,123 68

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
102	Grubbing and clearing,		$160 00
	do do	$800 00	
	Extra chopping and clearing side hill,	50 00	
	318.04 cubic yards earth excavation, 20 cts.	63 61	
	66,543.42 " embankment, 25	16,635 85	
	10,850.87 " protection wall, $1 50	16,276 30	
			33,825 76
	Total,		33,985 76
103	23,911.59 cubic yards earth excavation, at 18 cts.	4,304 09	
	220.18 " do to turn brook, 12	26 42	
	32,030.92 " embankment, 25	8,007 73	
	8,192.15 " protection wall, $1 80	14,745 87	
	Grubbing and clearing,	1,000 00	
	do do extra, (est.)	150 00	
			28,234 11
104	Grubbing and clearing,	600 00	
	15,252.29 cubic yards earth excavation, at 24 cts.	3,660 55	
	68 " detached rock do (est.) 50	34 00	
	19,443.45 " embankment, 27	5,249 73	
	384 " earth excavation for water way, (est.) 25	96 00	
	13 acres extra chopping and clearing, (est.) $15 00	195 00	
			9,835 28
105	Grubbing and clearing,	570 00	
	1,999.24 c. yards earth excavation, (est.) 25	499 81	
	63,964.86 " embankment, 28	18,229 99	
	8,643.32 " Protection wall, $1 69.1-10	14,615 85	
			33,915 65
106	Grubbing and clearing per contract,	1,140 00	
	8.40 acres chopping and clearing extra, (est.) $10 00 cts.	84 00	
	476.98 cubic yards earth exc'tion, (est.) 20	95 40	
	112,628.16 " embankment, 23¾	26,749 19	
	17,485.12 " protection wall, 1 69.1-10	29,567 34	
	11.76 " stone in drain ditch, (est.) 1 30	15 29	
			57,651 22
107	Grubbing and clearing,	400 00	
	do do	1,140 00	
	Extra chopping and clearing 12.60 acres, (est.) $10 00	126 00	
	256.11 cubic yards earth excavation in drain ditch, 30	76 83	
	256.11 " stone in do 1 30	332 94	
	145,021.60 " embankment, 23¾	34,442 63	
	22,026.94 " protection wall, 1 69.1-10	37,247 56	
			73,765 96
108	Grubbing and clearing,	300 00	
	3,441.95 cubic yards earth excavation, at 17 cts.	585 13	
	525.36 " embankment, 23¾	124 77	
			1,059 90

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
108	Grubbing and clearing,	$950 00	
	26,418.77 cubic yards earth excavation, at 23¾ cts.	6,274 76	
	248.30 " do in drain ditch, 20	49 66	
	58,705.45 " embankment, 23¾	13,942 54	
	1,475.10 " lining, (est.) 50	737 55	
	7,876.96 " protection wall, $1 69.1-10	13,319 94	
	288 " cemented clay ex. (est.) 70	201 60	
	Scaleage on first contract,	232 33	
	Well at head of Culvert.		
	13.85 cubic yds. earth excavation, (est.) 25	3 46	
	13.33 " dry masonry, $2 00	26 66	
	2.46 " paving, 2 00	4 92	
			$35,743 12
	Total,	–	36,803 02
112	557 cubic yards earth excavation, at 13 cts.	72 41	
	4,720 " embankment, 15	708 00	
			780 41
113	9,254 cubic yards earth excavation, at 12 cts.	1,110 48	
	28 " detached rock do 50	14 00	
	4,645 " embankment, 13	603 85	
	Grubbing and clearing,	50 00	
			1,778 33
114	2,227 cubic yards earth excavation, at 11 cts.	244 97	
			244 97
115	13,003 cubic yards earth excavation, at 11 cts.	1,430 33	
	9 " detached rock do 40	3 60	
			1,433 93
117	3,026 cubic yards earth excavation, at 10 cts.	302 60	
	1,948 " embankment, 13	248 04	
	12 " detached rock do 50	6 00	
			556 64
	209 " earth ex'tion, (by Abbott) 12		26 28
	Total,	–	582 92
118	18,638.22 cubic yards earth excavation, at 10 cts.	1,863 82	
	2,570.02 " cemented clay do 30	771 00	
	83 " detached rock do 50	41 50	
	667 " embankment, 13	86 83	
			2,763 15
119	18,433 cubic yards earth excavation, at 12 cts.	2,211 96	
	2,395 " cemented clay do (est.) 50	1,197 50	
	4,484 " embankment, 15	672 60	
			4,082 06
120	3,506 cubic yards earth excavation, at 12 cts.	420 72	
			420 72
121	2,348 cubic yards earth excavation, at 14 cts.	328 11	
			328 11

STATEMENT A—*Continued.*

No. of Section.	Description of work.		Amount of items.	Amount of section.
122	4,545 cubic yards earth excavation, at	13 cts.	$590 85	
	1,627 " embankment,	13	211 51	
				$802 36
123	717 cubic yards earth excavation, at	14 cts.	–	100 38
124	15,674 cubic yards earth excavation, at	11 cts.	1,724 14	
	6,596 " embankment,	15	989 40	
				2,713 54
125	5,383 cubic yards earth excavation, at	11 cts.	592 13	
	2,594 " embankment,	12	311 28	
	Grubbing and clearing,		20 00	
				923 38
126	Grubbing and clearing,		250 00	
	508 cubic yards earth ex. in muck ditch,	10 cts.	50 80	
	1,149 " embankment,	12	137 88	
				438 68
	Grubbing and clearing,		500 00	
	322 cubic yards earth excavation, at	13 cts.	41 86	
	1,753 " embankment,	15	262 95	
				804 81
	Total,		–	1,243 49
127	13,332 cubic yards earth excavation, at	13 cts.	1,733 16	
	992 " do cem'd sand and gravel,	40	396 80	
	5,376 " embankment,	15	806 40	
	Grubbing and clearing,		80 00	
				3,016 36
128	6,815 cubic yards earth excavation, at	12 cts.	817 80	
	40 " detached rock do	50	20 00	
	1,859 " embankment,	14	260 26	
				1,098 06
129	7,450 cubic yards earth excavation, at	12 cts.	894 00	
	34 " detached rock do	50	17 00	
	4,294 " embankment,	13	558 22	
				1,469 22
130	9,689 cubic yards earth excavation, at	12 cts.	1,162 68	
	464 " cemented clay do	40	185 60	
	2,627 " rock do	60	1,576 20	
	2,398 " embankment,	14	335 72	
				3,260 20
131	6,190 cubic yards earth excavation, at	12 cts.	742 80	
	569 " cemented clay do	22	125 18	
	1,335 " rock excavation do	45	623 25	
	3,068 " embankment,	14	429 52	
	Grubbing and clearing, (est.)		15 00	
				1,935 75
133	65 cubic yards earth excavation, at	12 cts.	7 80	
	1,387 " embankment,	13½	187 24	
				195 04

STATEMENT A—*Continued.*

No. of Section.	Description of work.		Amount of items.	Amount of section.
135	15,341 cubic yards earth excavation, at	14 cts.	$2,147 74	
	1,658 " cemented clay do	30	497 40	
	3,530 " rock excavation do	68¾	2,426 92	
	16 " detached rock do	37½	6 00	
	791 " embankment,	15	118 65	
				$5,196 71
137	938 cubic yards earth excavation, at	13½ cts.	126 63	
	3,881 " embankment,	16½	640 36	
				766 99
138	1,098 cubic yards earth excavation, at	12 cts.	131 76	
	3,971 " embankment,	16	635 36	
				767 12
	Du Page Feeder.			
	6,633.56 cubic yards earth excavation, at	26 cts.	$1,724 72	
	12,251.41 " embankment,	28	3,430 39	
	78 " stone for slope wall, (est.)	50	39 00	
				$5,194 11
	Lime Houses.			
Lock 1	Lime or cement houses complete,	-	$300 00	
2	do do.	-	300 00	
3	do do	-	212 00	
4	do do	-	195 00	
6	do do	-	135 00	
7	do do	-	135 00	
Dam No. 2	do do		200 00	
				1,477 00

Western Division.

No. of Section.	Description of work.		Amount of items.	Amount of section.
141	159 cubic yards earth excavation, at	14 cts.	$22 26	
	767 " embankment,	16	122 72	
				$144 98
143	171 cubic yards earth excavation, at	14 cts.	-	23 94
144	147 cubic yards earth excavation, at	15 cts.		22 05
145	7,353 cubic yards earth excavation, at	14 cts.	1,029 42	
	14,388 " embankment,	17	2,445 96	
				3,475 38
146	12,963 cubic yards earth excavation, at	15 cts.	1,944 45	
	967 " shelly rock do	40	386 80	
	5,611 " embodied rock do	60	3,366 60	
	10,901 " embankment,	18	1,962 18	
				7,660 03

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
148	6,431 cubic yards earth excavation, at 15 cts.	$964 65	
	556 " rock do 50	278 00	
	4,572 " embankment, 15	685 80	
			$1,928 45
149	5,378 cubic yards earth excavation, at 15 cts.	806 70	
	830 " rock do 50	415 00	
	31,710 " embankment, 15	4,756 50	
			5,978 20
152	9,072 cubic yards earth excavation, at 13 cts.	–	1,179 36
153	8,622 cubic yards earth excavation, at 14 cts.	1,207 08	
	2,796 " embankment, 15	419 40	
			1,626 48
155	28,849.26 cubic yards earth excavation, at 18 cts.	5,192 87	
	40 " detached rock do 75	30 00	
	2,715.70 " rock do $1 25	3,394 62	
	3,073.55 " do do 1 00	3,073 55	
	181 " embankment, 20	36 20	
			11,727 24
156	9,024 cubic yards earth excavation, at 15¼ cts.	1,376 16	
	7,937 " embankment, 21½	1,706 45	
			3,082 61
	9,535.66 " earth excavation, 15¼	1,454 19	
	89.57 " cemented clay do 40	359 83	
	851.46 " rock do 1 25	1,064 32	
	35,329.92 " embankment, 21⅓	7,595 93	
			10,474 27
	210 " earth excavation, 15¼	32 02	
	1,335 " embankment, 21½	286 38	
			318 40
	Total,	–	13,875 28
157	6,956.23 cubic yards earth excavation, at 15¼ cts.	1,060 83	
	18,240.65 " embankment, 17¼	3,146 51	
			4,207 34
158	4,357 cubic yards earth excavation, at 15⅓	659 83	
	11,636 " embankment, 19⅓	2,269 02	
	Grubbing and clearing,	40 00	
			2,968 85
	378.16 cubic yards earth excavation, at 15⅓	58 61	
	20,235.44 " embankment, 19⅓	3,945 91	
	Removing one large stump, (est.)	1 00	
			4,005 52
	Total,	–	6,974 37
159	12,108 cubic yards earth excavation, at 16 cts.	1,937 28	
	1,031 " cemented clay do 40	412 40	
	89 " detached rock do 1 08	96 12	
	184.49 " sand do do 1 25	234 36	
	4,226 " embankment, 18	760 68	
			3,440 84

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
159	7,765.30 cubic yards earth excavation, at 16 cts.	1,242 45	
	1,667.16 " gravel do (est.) 25	416 79	
	4,001.69 " cemented clay do 40	1,600 67	
	3,980.75 " embodied rock do 1 00	3,980 75	
	125 " detached do do 1 08	135 00	
	141.81 " earth ex. in ditch, 12	17 02	
	807.72 " embankment, 18	145 39	
			$7,538 07
	Total,	–	10,978 91
160	394.05 cubic yards earth excavation, at 16 cts.	63 04	
	712.07 " embankment, 21	149 53	
			212 57
	17,402.88 " earth excavation, 25	4,350 72	
	5,926.80 " cemented clay do 50	2,963 40	
	299 " detached rock do 75	224 25	
	2,319.72 " embodied do do 1 25	2,899 65	
	286 " earth ex. in side ditch, 15	42 90	
	4,302.27 " embankment, 25	1,075 57	
			11,556 49
	Total,	–	11,769 06
161	22,134.47 cubic yards earth excavation, at 23 cts.	5,090 93	
	3,413.17 " cemented clay, do 30	1,023 95	
	2,273.11 " embodied rock do 75	1,704 82	
	273 " detached do do 60	163 50	
	2,757.78 " embankment, 22	606 71	
	549.41 " earth ex. culv't. ditch. 25	137 35	
	2,155.98 " do outside do 25	538 99	
	449 " ditch ex. on sec. 162 25	112 25	
			9,378 80
	Well for culvert, &c.		
	490 cubic yards earth excavation, at 25	122 50	
	10.07 " rock do 1 00	10 07	
	84.50 " dry masonry, 2 75	232 37	
	80 " puddling, 60	48 00	
	Road bridges over culvert and drain ditches, (est.)	150 00	
	Repairs of road obstructed by canal, (est.)	75 00	
			637 94
	Total,	–	10,016 74
162	Five days mowing to clear section, $1 50 cts.	7 50	
	27,524.13 cubic yards earth excavation, at 15	4,128 62	
	365 " do side ditch, 16	58 40	
	1,317.51 " cemented clay ex. 62	816 86	
	266 " detached rock do 75	199 50	
	1,770.47 " rock do 1 25	2,213 09	
	1,637.24 " embankment, 17	278 32	
			7,702 29
163	3,149 cubic yards earth excavation, at 21 cts.	661 29	
	65 " cemented clay ex. 40	26 00	
	439 " rock do 1 00	439 00	
			1,126 29
	10,649.60 " earth excavation, at 21	2,236 42	
	300 " detached rock do 75	225 00	

STATEMENT A—*Continued.*

No. of Section.	Description of work.			Amount of items.	Amount of section.
163	7,478.77 cubic yards cemented clay ex. at		40 cts.	$2,991 51	
	7,924.91 " embodied rock	do	1 00	7,924 91	
					$13,377 84
	Total,			–	14,504 13
164	16,748 cubic yards earth excavation, at		16¼ cts.	2,721 06	
	6,628 " cemented clay	do	40	2,648 00	
	2,401 " slate rock	do	50	1,200 50	
	160 " detached rock	do	75	120 00	
	329 " embodied rock	do	1 00	329 00	
					7,018 56
	4,668.63 " earth excavation,		16¼	758 65	
	2,718.81 " cemented clay	do	40	1,087 52	
	400 " detch'd rock	do	75	300 00	
	11,385.89 " emb'd do	do	1 00	11,385 89	
					13,532 06
	Total,			–	20,550 62
165	3,637 cubic yards earth excavation at		16¼ cts.	591 01	
	2,794 " cemented clay ex.		40	1,117 60	
	60 " rock	do	1 00	60 00	
					1,768 61
	12,257.76 " earth	do	16¼	1,991 89	
	12,469.45 " cemented clay	do	40	4,987 78	
	7,559.34 " rock	do	1 00	7,559 34	
					14,539 01
	Total,			–	16,307 62
166	1,514.64 cubic yards earth excavation at		15	227 19	
	614.62 " embankment,		17	104 48	
					331 67
	10,190.85 " earth excavation,		15	1,528 62	
	2,607.05 " gravel & det'd r'ck ex.		30	782 11	
	11,643.39 " cemented clay	do	40	4,657 34	
	5,591.64 " rock	do	1 00	5,591 64	
	957.15 " earth ex. in drain,		25	239 29	
	200 " do T & Berm	do	15	30 00	
	15,233.50 " embankment,		17	2,589 73	
					15,418 73
	Total,			–	15,750 40
167	5,570.58 cubic yards earth excavation,		14 cts.	779 88	
	76,399.86 " embankment,		30	22,919 96	
					23,699 84
168	8,249.56 " earth excavation,		15	1,237 43	
	4,389.20 " muck	do	15	658 38	
	590.88 " side ditch	do	15	88 63	
	3,851.94 " do	do	21	809 54	
	32,379.85 " embankment,		21	6,799 98	
	bridge across ditch,			23 00	
	4,766.33 " earth ex. on old line abandoned		15	714 95	
					10,373 91

Statement A.

No of Section.	Description of work.	Amount of items.	Amount of sections.
169	5,081 cubic yards earth ex (prism) at 15 cts.	$762 15	
	4,193.17 " do (muck) 15	628 97	
	604.73 " do drain ditch, 25	151 18	
	1,056.62 " do do 15	157 59	
	22.26 " rock excavation, 1 00	22 26	
	34,489.09 " embankment, 25	8,622 27	
	4,221.06 " do carted (est) 30	1,266 32	
	4,897.87 " earth ex. on old line abandoned, 15	734 68	
			$12,345 53
170	11,485.31 " earth excavation at 15 cts.	1,722 79	
	300 " detached rock ex. 75	225 00	
	150 " rock ex. in culv't ditch 1 00	150 00	
	25,626.93 " embankment, 25	6,406 73	
	15 days mowing to clear section, 1 50	22 50	
	mowing on sections 168 & 169,	40 00	
			8,567 02
171	7,942.94 cubic yards earth excavation at 18 cts.	1,429 73	
	5,368.88 " embankment, 19	1,020 08	
			2,449 83
	21,345.18 " earth excavation, 16	3,415 22	
	500 " do do in dr'n ditch 25	125 00	
	30 " detached rock, 1 00	30 00	
	5,554.03 " embankment, 16	888 64	
			4,458 86
	Total,	–	6,908 69
172	Grubbing and clearing,	50 00	
	2,897.62 cubic yards earth excavation, at 20 cts.	579 52	
	1,895.44 " rock do 1 00	1,895 44	
	2,268.15 " embankment, 25	567 04	
			3,092 00
	Grubbing and clearing,	25 00	
	8,106 " earth excavation, 26½	2,148 09	
			2,173 09
	Grubbing and clearing,	25 00	
	9,587.68 " earth excavation, 20	1,917 53	
	108.56 " rock do 1 25	135 70	
	5,114.85 " embankment, 25	1,278 71	
	Scaleage on work done by a former contractor,	473 86	
			3,830 80
	Total,	–	9,095 89
173	Grubbing and clearing,	100 00	
	1,356.66 cubic yards earth excavation at 20 cts.	271 33	
			371 33
	Grubbing and clearing,	75 00	
	12,574 " earth excavation, 25	3,143 50	
	11,854 " embankment, 25	2,963 50	
	100 " rock excavation, 1 40	140 00	
			6,322 00

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
173	Grubbing and clearing,	100 00	
	8,726.22 cubic yards embankment, 25 cts.	2,181 55	
			$2,281 55
	Total,	–	8,974 88
174	481.80 cubic yards earth excavation at 16 cts.	77 09	
	1,783.50 " embankment, 25	445 87	
			522 96
	Grubbing and clearing,	100 00	
	681.80 " earth excavation, 16	109 09	
	*13,337.83 " embankment, 25	3,334 46	
			3,543 55
	Grubbing and clearing,	600 00	
	Extra do do	200 00	
	3,489.88 " earth excavation, 16	558 38	
	26,272.10 " embankment, 25	6,568 02	
			7,926 40
	Total,	–	11,992 91
175	Grubbing & clearing per contr't	400 00	
	2 acres extra grubbing & cl'ng $30 00	60 00	
	6.3 do do chopping do 20 00	126 00	
	9,097.44 cubic yards earth excavation, 24 cts.	2,183 38	
	15,598.56 " embankment, 28	4,367 60	
	517 " do extra by change of line, 28	144 76	
	Grubbing and clearing performed on sec. 176, but omitted in the final est. of that section,	40 00	
			7,321 74
176	15,706.39 cubic yards earth excavation, at 15 cts.	2,355 94	
	4,848.02 " gravel do (est.) 25	1,212 00	
	4,492.69 " embankment, 17	763 76	
			4,331 70
177	18,673.87 cubic yards earth excavation, 20	3,734 77	
	10,350.12 " embankment, 20 cts.	2,070 02	
			5,804 79
178	7,449.90 cubic yards earth excavation at 16 cts.	1,191 98	
	3,575.17 " gravel do 23	822 29	
	5,619.07 " embankment, 18	1,011 43	
			3,025 70
179	Grubbing a clearing,	30 00	
	1,607.14 cubic yards earth excavation at 18 cts.	289 28	
	5,713.13 " embankment, 22¾	1,299 74	
	Mowing 10 days (clearing sec.) 1 50	15 00	
			1,634 02
	751.74 cubic yards earth excavation, 18	135 31	
	7,205.07 " embankment, 22¾	1,639 15	
			1,774 46

*See Abstract.

STATEMENT A—*Continued.*

No of Section.	Description of work.	Amount of Items.	Amount of sections.
179	1,777.26 cubic yards earth excavation at 24½	$ 4 35 43	
	16,156.47 " embankment, 24½	3,958 33	
	671.47 " lining, 40	268 59	
			$4,662 35
	Total,	-	8,070 83
180	Grubbing and clearing,	100 00	
	7,291.76 cubic yards earth excavation at 20 cts.	1,458 35	
	22,849.79 " embank't (com'n earth) 23	5,255 45	
	7,961.85 " do gravel (est.) 30	2,388 55	
	Mowing 10 days (cleari'g sec.) 1 50	15 00	
			9,217 35
181	Grubbing and clearing for brook ditch,	30 00	
	30,417.94 cubic yards earth excavation at 18 cts.	5,475 23	
	3,603 " do brook ditch, 18	648 54	
	10,767.51 " embankment, 18	1,938 15	
			8,091 92
182	41,385.16 cubic yards earth excavation at 21½ cts.	8,897 81	
	260 " cemented grav. do (est.) 75	195 0	
	416.26 " cutting down banks ex. 21½	89 50	
	646.34 " deposite by floods do 21½	138 96	
	575.62 " side ditch do 15	86 34	
	2,485.13 " embankment, 20	497 03	
	10 days mowing (clearing sec.) 1 50	15 00	
			9,919 64
183	12 days mowing (clearing sec.) 1 50 cts.	18 00	
	Grubbing stumps and removing logs (est.)	25 00	
	12,815.20 cubic yards earth excavation at 23	2,947 49	
	260 " cemented gravel, 75	195 00	
	65.71 " rock (culv't ditch) 1 25	82 14	
	23,875.84 " embankment, 28	6,685 23	
			9,952 86
184	27,515.15 cubic yards earth excavation at 21½ cts.	5,915 76	
	325.60 " do drain ditch 18	58 61	
	455.08 " quarried rock ex., 1 00	455 08	
	1,155.65 " do do 80	924 52	
	4,136 " embankment, 20	827 36	
	12 days mowing (clearing sec.) 1 50	18 00	
			8,199 33
	6,038.82 cubic yards earth excavation, 21½	1,298 34	
	1,500 " quarried rock ex. 1 40	2,100 00	
	4,643.27 " rock do 1 00	4,643 27	
	5,645.72 " earth ex. (brook ditch) 18	1,016 22	
	123 " protection wall for (brook ditch) 75	92 25	
	2,587 " embankment, 20	517 48	
			9,667 56
	Total,	-	17,866 89
185	2,980.68 cubic yards earth excavation at 25 cts.	745 17	
	236.95 " soft lime stone do 1 00	236 95	
	32 " rock do 1 20	38 40	

STATEMENT A—*Continued.*

No of Section.	Description of work.	Amount of items.	Amount of sections.
185	738 cubic yards embankment, at 25 cts.	$184 50	
	8 days mowing (clearing sec.) 1 50	12 00	
			$1,217 02
	219 cubic yards earth excavation 25	54 75	
	1,091 " cemented clay and gravel 60	654 60	
	331 " embankment, 25	82 75	
			792 10
	11,309.73 " earth excavation 25	2,827 43	
	1,663.58 " cemented clay & grav. ex. 60	998 15	
	1,397.29 " rock excavation, 1 20	1,676 75	
	800 " earth ex. in culv't ditch, 18	144 00	
	9,446.03 " embankment, 25	2,361 51	
	439.32 " do removed by change of line, 25	109 83	
			8,117 67
	Total,	-	10,126 79
186	Grubbing and clearing,	30 00	
	12,183.20 cubic yards earth excavation, at 22 cts.	2,680 30	
	396.39 " side ditch excavation, 15	59 45	
	1,401.30 " quarried rock do 1 10	1,541 43	
	2,128.31 " do do do 1 35	3,278 22	
	1,134.54 " do do do 1 40	1,588 36	
	26 " corded do do 1 40	36 40	
	6 days mowing, 1 50	9 00	
			9,223 16
	34 cubic yards earth excavation, 22	7 48	
	899 " quarried rock ex. 1 10	988 90	
	299 " do do 1 35	403 65	
			1,400 03
	4,475.56 " earth excavation, 22	984 62	
	18,016.37 " rock do 1 40	25,222 92	
	2,113.81 " cemented clay and gravel (est.) 60	1,267 69	
	381.28 " embankment, 18	68 63	
	2,395.01 " earth excavation to turn brook (est.) 15	359 25	
	3,339.87 " embankment to turn brook (est.) 25	834 97	
	372.44 " earth ex. for muck ditch of g. bank, 15	55 87	
	22.40 " earth ex. cutting down tow-path, 22	4 93	
	13.45 " rock cutting down tow-path, 1 40	18 83	
	63.91 " earth ex. for water way, 15	9 59	
	115.28 " stone and gravel covering water way, 40	46 11	
			28,873 41
	Total,	-	39,496 60
187	Grubbing and clearing,	5 00	
	10,063.48 cubic yards earth excavation at 33 cts.	3,320 94	
	138.60 " do drain ditch, 40	55 44	
	1,292.72 " quarried rock, 1 30	1,680 53	
	1,210.25 " embankment, 29½	358 80	
			5,420 71

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of sections.
187	Grubbing and clearing,	$5 00	
	10,492.47 cubic yards earth excavation at 33 cts.	3,462 51	
	753.06 " do in culvert ditch, 20	150 61	
	14,580.65 " rock excavation, 1 80	26,245 17	
	4,585.56 " embankment, 29½	1,352 74	
	25 " dry masonry in pav'd water way, 2 79	69 75	
			$31,285 78
	Total,	–	36,706 49
188	Grubbing and clearing,	162 00	
	9 acres chopping and clearing extra width at $18 00	162 00	
	8,216.10 cubic yards earth excavation 49 cts.	4,025 89	
	181.87 " do do 25	45 47	
	39,939.55 " embankment, 30	11,981 86	
	3,813.48 " do extra, 25	953 37	
			17,330 59
189	Grubbing and clearing,	275 00	
	1 acre extra do	50 00	
	10.52 acres chopping and clearing extra, at $30 00	315 60	
	15,442 cubic yards earth excavation, 18 cts.	2,779 63	
	138.57 " do side ditch, 50	69 28	
	112.84 " detached rock ex. 1 00	112 84	
	25,539 " embankment, 30	7,661 77	
			11,264 12
190	Grubbing and clearing,	400 00	
	3 acres chopping and clearing extra, at $5 00	15 00	
	11,482.70 cubic yards earth excavation, 25 cts.	2,870 67	
	52 " detached rock ex., 75	39 00	
	30 " quarried do 1 75	52 50	
	35,832.75 " embankment, 28	10,033 17	
	9,600.47 " lining, 88	8,448 41	
			21,858 75
191	Grubbing and clearing,	200 00	
	12,421.76 cubic yards earth excavation at 30 cts.	3,726 83	
	185.30 " earth ex. to turn brook, 15	27 79	
	541.20 " earth ex. caused by floods, 30	162 36	
	8 " earth ex. for wall at camp rock, 30	2 40	
	258.73 " earth ex. slides at camp rock, 30	77 62	
	16,663.90 " rock ex. at c. rock, 1 12½	18,746 78	
	44,641.18 " embankment, 38	16,963 65	
	521 " do caused by wash of river, 38	197 98	
	419.38 " do by change of line, 38	159 36	
	108.96 " do do level, 38	41 40	
	250 " lining, 70	175 00	
	Extra labor in preparing banks for lining,	10 67	

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of section.
191	1,425.40 cubic yards protection wall, $1 00 cts.	$1,425 40	
	98.02 " do at camp r. 1 00	98 02	
	Puddling at camp rock,	20 00	
	4 days mowing (clearing sec.) 1 50	6 00	
			$42,041 26
192	Grubbing and clearing,	500 00	
	8,035.05 cubic yards earth excavation at 26 cts.	2,089 11	
	1,200.31 " earth ex. caused by slide, 26	312 08	
	2,118.62 " rock ex. (quarried) 1 75	3,707 58	
	1,049.31 " do do (solid) 1 50	1,573 96	
	1,488.99 " do do (detached) 75	1,116 73	
	27,196.15 " embankment, 28	7,614 92	
	2,526.24 " do caused by ch'ge of line, 28	707 35	
	1,305 " do caused by floods, (1838) 28	365 40	
	119.50 " do change of curve, 28	33 46	
	200.26 " do ex. of rock, 28	56 07	
	1,500.86 " slope wall, 2 00	3,001 72	
	Removing rock from base of bank,	50 00	
	5 acres extra grubbing and clearing 10 00	50 00	
			21,178 78
	Deduct for stone furnished by State	–	1,050 60
	Total,	–	20,128 18
193	Grubbing and clearing,	500 00	
	do extra on account of slides,	230 00	
	9½ acres extra clear'g on side hill, $5 00	47 50	
	7,908.48 cubic yards earth excavation at 26 cts.	2,056 20	
	2,111 " detached rock do 75	1,583 25	
	1,583.75 " solid do do 1 50	2,375 62	
	3,167.50 " quarried do do 1 75	5,543 12	
	2,068 " protection wall, 1 30	2,688 40	
	40,949.04 " embankment, 28	11,465 73	
			26,439 82
194	Grubbing and clearing,	100 00	
	do caused by change of line (est.)	20 00	
	941.81 cubic yards earth excavation at 20 cts.	188 36	
	136.84 " detached rock ex. 75	102 63	
	381.22 " quarried do do 1 25	476 52	
	19,315.93 " embankment, 30	5,794 77	
			6,682 28
	3 acres chopping and clearing on side hill, 40 00	120 00	
	Grubbing and clearing extra on account of slides,	40 00	
	3,367.60 cubic yards earth excavation at 20 cts.	673 52	
	350.78 " quarried rock excavation, (est.) 1 25	438 47	
	399.73 " detac'd do do 75	299 78	
	1,053.31 " slope wall from stone quarried from prism, 62½	658 31	

STATEMENT A—*Continued.*

No of Section.	Description of work.	Amount of items.	Amount of sections.
194	1,134 c. yards slope wall (stone quarried by contractor) at $1 50 cts.	$1,701 00	
	18,588.15 cubic yards embankment, at 30	5,576 44	
			9,507 52
	Total,	–	16,189 80
195	Grubbing and clearing,	25 00	
	6,653.53 cubic yards earth excavation at 26 cts.	1,729 92	
	151.08 " detached rock do 1 00	151 08	
	407.94 " quarried do do 1 50	611 91	
	269.91 " corded do do 1 50	404 86	
	Removing stone from change of line,	20 00	
	40,345.71 " embankment, 42	16,945 19	
	1,494 50 " do for lock 14, 30	448 35	
	Mowing,	8 25	
	4,967 " earth ex. in s. b. basin 25	1,241 75	
	798 " embankment, 37	295 26	
			21,881 57
	123,156 " earth ex. in s. b. basin 41	50,493 96	
	458 " do do below bottom basin, (est.) 60	274 80	
	27 " McAdamizing on grade, 1 50	40 50	
	1,225.60 " slope wall, 2 25	2,757 60	
			53,566 86
			75,448 43
	Deduct for stone furnished by State,	–	378 44
	Total,	–	75,069 99
196	51,645.21 cubic yards earth excavation, at 31 cts.	16,010 01	
	2,283.28 " drain ditch do 50	1,141 64	
	Corded rock on hill side,	600 00	
	2,130.11 " rock qurried transferred from sec. 197, 1 00	2,130 11	
	11½ days mowing (clearing section,) 1 50	17 25	
			19,899 01
	132,700 " earth excavation, 59	78,293 00	
	7,300 " slope wall, 2 60	18,980 00	
	130.66 " McAdamizing grade, 1 50	195 99	
			97,468 99
			117,368 00
	Deduct for stone furnished by the State,	–	5,540 00
	Total,	–	111,828 00

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Amount of sections.
196 & 197	Grubbing and clearing,	$9 75	
	36,627.74 cubic yards earth excavation in prism, at 40 cts.	10,651 09	
	6,563 " earth ex. in berm, 45	2,953 35	
	300 " rock laid in front of pier head, 1 60	480 00	
	1,111 " rock laid in front of pier head, 2 25	2,497 50	
	873 " slope wall, 1 60	1,396 01	
	5,506 " stone quar'd for wall, 80	4,404 80	
	Brush in foundation of pier head,	22 50	
	Puddling in do	7 50	
			$22,422 50
197	25,733 cubic yards earth excavation, at 35 cts.	9,006 82	
	980 " do do ditch, 50	490 00	
	8,187.92 " rock quarried for slope wall, 1 00	8,187 92	
	12 days mowing (clear'g sec.) 1 50	18 00	
	29,585.87 cubic yards earth excavation, 55	16,272 23	17,702 74
	1,226.27 " slope wall, 2 25	3,126 98	
			19,399 21
			37,101 95
	Deduct for stone furnished by State,	–	1,705 13
	Total,	–	35,396 82
	Recapitulation of sections 195, 196, *and* 197.		
195	Aggregate of estimates,	75,069 99	
196	do do	111,828 00	
197	do do	35,396 82	
196 & 197	do do	22,422 50	
			244,717 31
	Total by I. Hardy,		162,811 49
	do do H. Kinney, & Peyton & Co.		81,905 82

STATEMENT A—*Continued.*

Pecumsagan Channel.

	Grubbing and clearing per contract.			280 00	
30,258.94-100	c yds. earth excavation at		35 cts.	10,590 63	
153	" do " below water (est)		75	114 75	
295.10-100	" " " (est)		1 00	295 10	
1,255.22-100	" filling behind walls, abuts. and breast embankment (est)		20	251 04	
46	" detached rock		75	34 50	
49	" quarried "		1 75	85 75	
103.61-100	" puddling behind abuts (est)		1 00	103 61	
574.42-100	" protection wall (est)		1 75	1,005 23	
681.37-100	" stone dam, abuts & wing walls (est)		3 00	2,044 11	
100	cyds. loose stone above dam (est)		1 00	100 00	
	Clamping coping of dam (est.)			25 00	
	Wooden dam entire,			842 85	
					15,772 57
	Extra work caused by flood February 1840.				
67.20-100	c yds. stone put into a hole washed at the base of dam		2 00	134 40	
24.75-100	" gravel ex for base of dam		35	8 66	
160.66-100	" wall forming new face to dam		4 00	642 64	
20	" rough stone at base of dam		2 00	40 00	
	Replacing coping of dam,			25 00	
10.50-100	gravel filling above "		25	2 62	
185.18-100	filling behind east wing and abutt		40	74 07	
					927 39
					16,699 96
	Deduct for 240 c yds. delivered by Townsend & Co		1 00	240 00	458 58
"	72.86 " aqueduct stone		3 00	218 58	
		Total,			16,241 38

An account of extra work caused by Slides on sections 191, 192, 193 *&* 194.

Section 191	884 c yds. embankment		28	237 52	
	1,200 " earth excavation		24	288 00	525 52
192 & 193	16,012 " "		24	3,842 88	
	3,687 " corded rock excavation		62½	2,304 37	6,147 25
194	1,824 " embankment		26	474 24	474 24
		Total,		-	7,147 01

An account of protection walls on sections 194 *and* 195.

194	2,088 c yds. prot'n wall from stone quar'd		1 50	3,132 00	
	682 " do do proc'd by Hyatt		2 25	1,534 50	
					4,666 50
195	240 " do do by Kinney		1 25	300 00	
	1,057 " do do sec 193		1 85	1,955 45	
	1,464.45 " do do by cont'r		2 25	3,295 01	
					5,550 46
		Total,		-	10,216 96

STATEMENT A—*Continued.*

Lateral Canal.

No of section.	Description of work.	Amount of items.	Amt. of sections.
Section 1	20,313.72-100 c yds. earth excavation at 15 cts.	3,047 05	
	17,546.93-100 " rock " 100	17,546 98	
			20,594 03
2	17,438.05-100 c yds. earth excavation 15	2,615 71	
	406.93-100 " rock " 1 00	406 93	
	3,001.45-100 " embankment 20	600 29	
	4,772 filling ravine above bottom 25	1,193 00	
	Opening drain through banks,	30 00	
			4,845 93

Account of work done upon Fox River Feeder.

Section 1	Grubbing and clearing, (est.)	200 00	
	7,101 c yds. earth excavation at 15 cts.	1,065 15	
	9,240 do rock do 1 00	9,240 00	
	200 do detached rock ex. 50	100 00	
	45,545.55-100 c yds. embankment 17	7,742 74	
	628 c yds. protection wall 1 50	942 00	
	2,600 do emb't. for bridges 20	520 00	
	298 lineal feet timber lining wall 20	59 60	
	Road bridges complete,	590 00	
			20,459 49
Feeder Dam	270 c yds. masonry in abut's. at 7 25	1,957 50	
	5,276 lineal feet timber 12	633 12	
	10,400 superficial feet 4 in. plank 10	1,040 00	
	1,486 c yds. stone in cribs 2 00	2,972 00	
	3,200 do gravel in dam 30	960 00	
	4,310 lbs. iron for spikes and bolts 15	646 50	
	429 c yds. earth ex. for E. abut. pit 20	85 80	
	200 " embankment 20	40 00	
	Drilling for bolts, (est.)	30 00	
			8,364 92
Guard Lock	1,315 c yds. masonry 7 25	9,533 75	
	160 do rock ex. under water 2 00	320 00	
	130 do do do above do 1 00	130 00	
	1,210 do emb't. for lock 20	242 00	
	345 do prt'n wall for lock emb't. 2 00	690 00	
	50 do rubble masonry in foundation of lock 7 00	350 00	
	362 do rock ex. for sluice 2 00	724 00	
	630 " Slate rock part below water 1 00	630 00	
	264 do earth ex. for sluice 25	66 00	
	1,804 lineal feet timber for lock foun'n 20	360 80	
	2,000 feet B M plank in foundation $25 00	50 00	
	Mitre sills complete,	60 00	
	Head gates of sluice including timber, plank and work manship	90 00	
			13,246 55
	Section, dam and guard lock, Total,	-	42,070 96
2	Grubbing and clearing,	400 00	
	8,993 c yds. earth excavation 15	1,348 90	
	3,200 do cemented clay 30	960 00	
	7,500 do rock excavation 1 00	7,500 00	

STATEMENT A—*Continued.*

No of section.	Description of work.		Am't. of items.	Amount of sections.
2	21,370 c yds. embankment	16 cts.	3,419 20	
				13,628 10
3	Grubbing and clearing,		100 00	
	16,705 c yds. earth excavation	14	2,339 12	
	30 do detached rock ex.	50	15 00	
	5,644 do embankment	16	903 04	
				3,357 16
4	Grubbing and clearing,		100 00	
	1,830 c yds. earth excavation	14	256 20	
	2,039.10-100 c yds. cemented clay ex	30	611 73	
	2,039.10-100 do rock ex.	1 00	2,039 10	
	44,993.64-100 do embankment	16	7,198 98	
	194 c yds. earth ex. from brow of bluff	25	48 50	
				10,254 51
5	Grubbing and clearing,		400 00	
	17,814.84-100 c yds. earth excavation	18	3,206 67	
	830.41-100 c yds cemented clay ex.	50	415 20	
	1,404.95-100 do rock ex	1 25	1,756 19	
	41,258.46-100 do embankment	18	7,426 52	
	1,728 do slope wall	2 00	3,456 00	
	110 c yds. extra by change of line	2 00	220 00	
	3,600 do slides from bluff rem'd.	18	648 00	
				17,528 58
6	14,616 c yds. earth excavation	16½	2,411 69	
	4,483 c yds. embankment	20	896 77	
				3,308 46
7	5,771.69-100 c yds. earth excavation	15	856 75	
	300 do c clay do	40	120 00	
	2,725.94-100 do embankment	17	463 41	
				1,440 16
	6,120.21-100 do earth excavation	15	918 03	
	3,860.56-100 do c clay do	65	2,509 36	
	16.66 c yds. detached rock (est.)	75	12 50	
	5,523.30-100 do embankment	17	938 97	
				4,378 86
	Total,		-	5,819 02
8	9 days mowing (clearing sec.)	1 50	13 50	
	34,346.85-100 c yds. earth excavation	20	6,869 37	
	425 do coal do	40	170 00	
	12,899.10-100 do c clay do	50	6,449 55	
	180 c yds. detached rock do	1 00	180 00	
	3,740.66-100 embodied rock do	1 00	3,740 66	
	18,436.81-100 c yds. embankment	25	4,609 20	
				22,032 28

Stone Culvert on section number 3, *Fox River Feeder.*

1,396.41-100	c yds. earth excavation (canal)	20 cts.	279 82
303.40	do rock do	1 50	455 10
2,093.93-100	do embankment	25	523 48
359	do earth excavation in pit	20	71 80
79	do rock do do	1 50	118 50
129.14-100	do masonry in abutments	5 50	710 27
130.66-100	do do arch	7 50	1,196 62
255.01-100	do puddling	30	76 50
	Total,		4,346 71

STATEMENT A—*Continued.*

Abstract of Fox river Feeder.

	Section No. 1, dam and guard lock, - -		$42,070 96
	do do 2, - - - -		13,628 10
	do do 3, - - - -		3,357 16
	do do 4, - - - -		10,254 51
	do do 5, - - - -		17,528 58
	do do 6, - - - -		3,308 46
	do do 7, - - - -		5,819 02
	do do 8, - - - -		22,032 28
Culvert on	do do 3, - - - -		4,346 71
	Total, - -		$122,345 78

Estimate of work performed on Locks.

No. of Lock.	Description of work.		Amount of items.	Amount of Locks.
1	983.10 cubic yards earth excavation, at	33¼ cts.	$326 88	
	3,813.97 " rock do	95	3,623 28	
	2,146 feet (lineal) timber,	14¼	305 80	
	9,445½ " B. M. 2 inch plank,	$47 50	448 66	
	138.27 cubic yards rubble masonry (est.)	9 45¼	1.307 00	
	1,678.16 " cut stone do	9 45¼	15,862 81	
	401.57 " Hammer dressed wall, (est.)	4 00	1,606 28	
	581.14 " slope wall,	1 30	755 48	
	7,800.05 " embankment,	33¼	2,593 53	
	517.56 " puddle,	76	393 35	
	192.50 " do above head of lock,	33¼	64 01	
				$27,287 08
2	452.73 cubic yards earth excavation, at	33¼	150 53	
	3,024.49 " rock do	95	2,873 27	
	2,146 feet (lineal) timber,	14¼	305 80	
	9,445½ " B. M. 2 inch plank,	47 50	448 66	
	206.30 cubic yards rubble masonry (est.)	5 00	1,031 50	
	1,549.03 " Masonry in walls (cut stone)	9 45½	14,642 21	
	418.33 " hammer dressed wall (est.)	4 00	1,673 32	
	163.59 " common slope wall,	1 30	212 67	
	4,542.10 " embankment,	33¼	1,510 25	
	656.94 " Puddle,	76	499 27	
				23,347 48
3	458 cubic yards earth excavation, at	33 cts.	151 14	
	2,973 " rock do	95	2,824 35	
	45 " cut stone,	$10 00	450 00	
	11,000 bushels sand,	6	660 00	
	2,300 feet timber,	10	230 00	
	5,337 " B. M. 2 inch plank,	60 00	320 22	
	90 cubic yards backing,	3 50	315 00	
				4,950 71

STATEMENT A—*Continued.*

No. of Lock.	Description of work.		Amount of items.	Amount of Locks.
4	1,077 cubic yards earth excavation, at	33 cts.	$355 41	
	1,980 " rock do	95	1,881 00	
	1,005 " masonry,	$9 30	9,346 50	
	130 " cut stone,	10 00	1,300 00	
	260 " backing,	3 50	910 00	
	167 " puddling,	1 00	167 00	
	343 " embankment,	33	113 19	
	191 " wall at foot of lock,	4 00	764 00	
	146 " rough stone for cutting	4 50	659 00	
	4,000 bushels sand,	6	240 00	
	2,146.31 feet timber,	14½	305 85	
	2,617.75 " 2 inch flooring, (B. M.)	47 50	248 68	
	2,234 " " lining do	47 50	212 22	
	109.78 cubic yards rubble masonry,	5 00	548 90	
				$17,049 75
5	465.38 cubic yards earth excavation, at	25 cts.	116 34	
	4,161.88 " rock do	$1 00	4,161 88	
	2,656 feet (lineal) timber,	12	318 72	
	13,132 " B. M. plank flooring,	30 00	393 96	
	258.63 cubic yards rubble masonry in foundation (est.)	5 00	1,293 15	
	3,073.08 " masonry in lock,	9 00	27,657 72	
	300.67 " hammer dressed wall, (est.)	3 50	1,052 27	
	3,232.60 " embankment,	50	1,616 30	
	235.01 " puddling,	2 00	470 02	
	Grubbing and clearing, (est.)		15 00	
				37,095 36
6	7 c. yards cut stone at quarry, at	$6 00	42 00	
	67.38 " cut stone delivered,	8 63	581 49	
	200 " stone for cutting at quarry,	2 00	400 00	
	483 " backing delivered,	3 50	1,690 50	
	1,423 feet (lineal) timber do	12	170 76	
	5,855 " B. M. 3 inch plank,	65 00	380 57	
	1,147 " " 2 do	40 00	45 88	
				3,311 20
	3,078 cubic yards earth excavation,	30	923 40	
	4,698 feet (lineal) timber,	20	939 60	
	16,986 " B. M. 3 inch plank,	$50 00	849 30	
	1,488 " " 2 do do } sheet piling	50 00	74 40	
	744 " " 1 do do } sheet piling	50 00	37 20	
	4,194 " " 2 do do lining,	50 00	209 70	
	115 cubic yards puddle in foundation,	60	69 00	
	1,426 " masonry,	10 50	14,973 00	
	5,165 " embankment,	45	2,324 25	
	633 " do puddled,	40	253 20	
	170 cubic yards cut stone delivered	10 00	1,700 00	
	50 " stone for cutting do	8 00	400 00	
	60 " backing, do	3 50	210 00	
	107 " do at quarry,	2 00	214 00	
			$23,177 05	
	Materials furnished by 1st contract,	$853 12		
	do from Du Page acqueduct,	5,390 70	6,243 82	
				16,933 23
	Total,		–	$20,244 43

STATEMENT A—*Continued.*

No of Locks.	Description of work.		Amount of items.	Amount of Locks.
7	5,100 feet three inch plank,	$65 00	$331 50	
				$331 50
	1,055 cubic yards earth ex. above water,	30 cts.	316 50	
	600 " do do below do	60	360 00	
	4,698 feet (lineal) timber,	20	939 60	
	16,986 " B. M. 3 inch plank,	50 00	849 30	
	1,302 " " 2 do do	50 00	65 10	
	651 " " 1 do do	50 00	32 55	
	115 cubic yards of puddle,	60 cts.	69 00	
	213 " cut stone delivered,	10 00	2,130 00	
	5.71 " do at quarry,	7 00	39 97	
	115 " stone for cutting delivered,	8 00	920 00	
	17 " stone for cutting at lock 6,	8 00	136 00	
	122 " stone for cutting at quarry,	5 00	610 00	
	150 " backing delivered,	3 50	525 00	
	123 " do at quarry,	2 00	246 00	
	2,500 bushels sand delivered,	12	300 00	
	58 cubic yards emb. at foot of lock,	20	11 60	
	Piling up plank,		5 00	
			$7,555 62	
	Deduct materials furnished from original contract, lock 7,	$331 50		
	Deduct materials furnished on account of lock 6,	1,002 03		
	Deduct materials on account of Du Page acqueduct,	1,937 75	3,271 28	
				4,284 34
		Total,		4,615 84
8	359 cubic yards earth excavation, at	20 cts	71 80	
	Grubbing and clearing,		40 00	
				111 80
9	1,352 cubic yards earth excavation, at	25 cts.	338 00	
	253 " cemented clay ex.	50	126 50	
	63 " rock do	1 25	78 75	
	106.50 " cut stone delivered,	8 00	852 00	
	220 " backing,	3 00	660 00	
	2,844 feet (lineal) timber,	10	284 40	
				2,339 65
10	879 cubic yards earth ex. (pit) at	37½	329 62	
	355 " cemented gravel ex.,	50	177 50	
	1,162 " rock excavation,	$1 25	1,452 50	
	187 " earth do (canal)	37½	70 12	
	235 " rock do do	1 25	293 75	
	98 " masonry in foundation,	5 00	490 00	
	1,904 feet (lineal) timber,	16	304 64	
	15.50 cubic yards puddling,	70	10 85	
	11.14 " cut stone delivered,	8 00	89 12	
	185 " backing,	3 00	555 00	
	2,109 feet B. M. 2 inch plank,	25 00	52 72	
	580 bushels sand,	5	29 00	
				3,854 82

STATEMENT A—*Continued.*

No. of Locks.	Description of work.		Amount of items.	Amount of Locks.
11	140 cubic yards earth ex. in pit, at	20 cts.	$28 00	
	3,819 " rock do (est.)	$1 25	4,773 75	
	2,560 feet (lineal) timber,	21	537 60	
	21 cubic yards rubble masonry,	12 00	252 00	
	15,486 feet (B. M.) plank,	23 00	356 18	
	1,694 cubic yards cut stone masonry,	12 00	20,328 00	
	75 " gravel or broken stone under paving,	2 00	150 00	
	210 " paving,	1 00	210 00	
	170 " stone for slope wall,	50	85 00	
	1,000 " embankment,	25	250 00	
	685 " earth ex. below lock,	20	137 00	
	400 " rock do in drain above lock,	1 00	400 00	
	318 " puddling,	1 00	318 00	
	17 " cut stone (coping)	11 00	187 00	
				$28,012 53
12	2,070.49 cubic yards earth ex. in pit,	25 cts.	517 62	
	4,663 feet (lineal) timber,	22	1,025 86	
	24,427 " B. M. 3, 2 & 1 inch plank,	25 00	610 67	
	1,587.39 cubic yards masonry,	13 00	20,636 07	
	7,380.15 " embankment,	28	2,066 44	
	735 " do puddled,	50	367 50	
	280 " ex. at foot of lock for paving (est.)	35	98 00	
	286 " paving at foot of lock,	2 75	786 50	
	350 " slope wall,	2 75	962 50	
	102 " earth ex. in muck ditch (est.)	25	25 50	
	Taking up and relaying breast wall of the lock in consequence of settling,		53 00	
	Grubbing and clearing (est.)		75 00	
				27,224 66
13	1,744.08 cubic yards earth excavation in foundation,	20 cts.	348 81	
	306.70 " earth excavation under foundation to receive lining, (est.)	25	76 67	
	458.66 " puddling in foun'tion,	1 80	825 59	
	4,356 feet timber in foundation,	18	784 08	
	18,182 " B. M. plank,	22 00	400 00	
	201 cubic yards masonry,	9 00	2,259 00	
	74.50 " cut stone,	10 00	745 00	
	500 " backing,	3 75	1,875 00	
	94 " puddling aro'd walls,	1 80	169 20	
			7,483 35	
	Deduct for 4.50 cubic yards cut stone from P. acqueduct,	7 50	33 75	
				7,449 60
	930 cubic yards masonry,	9 37½	8,718 50	
	12.78 " cut stone (coping)	8 00	102 24	
	800 " embankment,	28	224 00	
	533 " puddling,	75	399 75	

STATEMENT A—*Continued.*

No. of Locks.	Description of work.	Amount of items.	Amount of Locks.
13	100 cubic yards rough stone for wall, $1 50 cts.	$150 00	
	14 " paving (only half allowed) 2 50	35 00	
		9,629 49	
	Deduct 74.50 cubic yards cut stone from 1st contract, $9 00 $670 50		
	Deduct 500 c. yards backing, 3 75 1,875 00		
	Deduct stone from Pecumsagan acqueduct, 150 00	2,695 50	
			$6,933 99
	Total,	–	14,383 59
14	1,169.07 cubic yards lock pit ex., at 25 cts.	292 26	
	535 " do do below ordinary foundation, (est.) 75	401 25	
	216.92 " depositing and puddling, 90	195 23	
	535.40 " concrete masonry in foundation, (est.) $4 00	2,141 60	
	4,619 feet timber, 22	1,016 18	
	19,717 " B. M. 3, 1½ & 1 inch plank, 25 00	492 92	
	1,792.74 cubic yards Masonry, 11 49	20,598 58	
	69.69 " cut stone, 12 00	836 28	
	40 " backing, 3 50	140 00	
	8,600 " embankment, 35	3,010 00	
	1,050 " puddle, 85	892 50	
	2,500 " earth ex. below lock, 20	500 00	
	Road across canal, (est.)	50 00	
			30,566 80
	Deduct for 8,988 feet B. M. plank from lock 15 and V. acqueduct, 25 00	–	224 70
	Total,	–	30,342 10
15	8,926.19 cubic yards earth ex. in pit, at 30 cts.	2,677 86	
	2,525.39 " do do increased by length of pit, 30	757 61	
	912.28 do do below original depth, (est.) 1 00	912 28	
	326 bearing piles 16 feet long, equal to 5,216 lineal feet, (est.) 40	2,086 40	
	1,275 do do cap timber, (est.) 30	382 50	
	865 lbs. wrought iron bolts, do 15	129 75	
	4,832 lineal feet foundation timber, 22	1,063 04	
	17,746 feet B. M. 3 inch plank, 39 00	692 09	
	1,485 " do 2 & 1 do 39 00	57 92	
	279.43 cubic yards puddling in foundation, 75	209 56	
	1,173 " masonry, 11 90	13,958 70	
	289 " cut stone, 13 00	3,757 00	
	580 " rough stone for backing, 5 50	2,900 00	
	375 " puddling & embank't 75	281 25	
			29,866 13

STATEMENT A—*Continued.*

No. of Locks.	Description of work.	Amount of items.	Amount of Lock.
Guard Lock No. 1.	1,536.60 cubic yards rock excavation in L. pit, at $1 00	$1,536 60	
	2,128 feet timber in foundation, 15 cts.	319 20	
	2,762 " B. M. 3 inch plank, 75 00	207 15	
	2,465.45 " do 2 do do 50 00	123 27	
	130.70 cubic yards rubble masonry in foundation, 5 00	653 50	
	801.74 " masonry, 9 50	7,616 53	
	822.26 " earth and detached rock ex. (est.) 75	616 69	
	1,124.89 " rock ex. in prism of canal, 1 00	1,124 89	
	304.37 " hammer dressed wall, (est.) 4 00	1,217 48	
	190.15 " common wall, 70	133 10	
	878.34 " clay embankment, 60	527 00	
	64.66 " puddling, 85	54 96	
	1,143.97 " rubbish embankment, 45	514 79	
			$14,645 16
Side cut Lock No. 1.	459 cubic yards earth ex. in lock pit, at 20 cts.	91 80	
	927 " rock do do $1 00	927 00	
	108 " earth do (muck) 20	21 60	
	1,760 " embankment, 25	440 00	
	167 " cut stone delivered, 13 00	2,171 00	
	20 " stone for cutting, 8 00	160 00	
	250 " rough stone for backing, 4 00	1,000 00	
	612 feet timber, 10	61 20	
			4,872 60

Abstract of work done on Locks.

Lock No. 1	$27,287 08
" 2	23,347 48
" 3	4,950 71
" 4	17,049 75
" 5	37,095 36
" 6	20,244 43
" 7	4,615 84
" 8	111 80
" 9	2,339 65
" 10	3,854 82
" 11	28,012 53
" 12	27,224 66
" 13	14,383 59
" 14	30,342 10
" 15	29,866 13
Guard lock No. 1	14,645 16
Side cut " 1	4,872 60
Total,	$290,243 86
On middle division,	149,347 61
On western do	140,896 08

STATEMENT A—*Continued.*

Estimate of work performed on Acqueducts.

Aq'ucts.	Description of work.	Amount of items.	Totals.
Aux Sable Aqueduct.	1,209 cubic yards earth excavation, at 20 cts.	$241 80	
	Grubbing and clearing,	50 00	
			$291 80
Fox river Acqueduct.	7,439 cubic yards earth ex. above water, at 22 cts.	1,636 58	
	320 " do do below do $1 00	320 00	
	255 " rock do above do 1 45	369 75	
	246 " do do below do 2 00	492 00	
	36 " rubble masonry in foundation, 12 50	450 00	
	60 " puddling, 1 00	60 00	
	2,144 feet (lineal) of timber, 20	428 80	
	6,763 " B. M. plank, 28 00	189 36	
	128 cubic yards of cut stone (est.) 11 00	1,408 00	
	5,705 " masonry, 12 50	71,312 50	
	600 " do in extra pier caused by change of plan (est.) 13 50	8,100 00	
	288 " rough stone (est.) 6 00	1,728 00	
	50 " do at head of piers (est.) 9 00	450 00	
	7,390 " embankment, 28	2,069 20	
	One coffer dam, puddling, &c., for extra pier (est.)	225 00	
	Coping quarried and partially cut and laid, but lost or partly lost by substituting thicker coping, (est.)	175 00	
			89,41 19
Little Vermilion Acqueduct.	3,593.65 cubic yards earth excavation, at 25 cts.	898 41	
	1,380.14 feet (running measure) hammer dressed stone, 50	690 07	
	422.67 cubic yards quarried rock on river bank, 1 50	634 00	
	3,261 lineal feet foundation timber, 8	260 88	
	17,726 feet (B. M.) plank, 25 00	443 15	
	3,505.54 cubic yards embankment, 30	1,051 66	
			3,978 17
	Grubbing,	30 00	
	2,707 cubic yards earth excavation, 25	676 75	
	300 " stone for slope wall delivered, 70	210 00	
	380 " rough stone delivered, 2 25	855 00	
	114 " do do do 3 00	342 00	
	690 feet faced stone delivered, 25	172 50	
	Foundation of west abutment,	646 05	
	4,482 cubic yards embankment, 30	1,344 60	
	Removing house from berm bank,	10 00	4,286 90
	Total upon original plan of acqueduct,		8,265 07
	1,433 cubic yards earth excavation in foundation, at 20 cts.	286 60	
	91.86 " puddling, 1 00	91 86	
	473 " masonry, 10 00	4,730 00	
	138 " cut stone delivered, 10 00	1,380 00	
	7 " do at quarry, 6 00	42 00	
	20 " stone for cutting delivered, 5 00	100 00	

STATEMENT A—*Continued.*

Aq'ucts.	Description of work.		Amount of items.	Totals.
	12 cubic yards backing delivered,	3 00	$36 00	
	37 " stone for cutting at quarry,	3 00	111 00	
	209 " embankment, at	20 cts.	41 80	
	1,355 feet (lineal) of timber,	23	311 65	
	3,506 " B. M. 2 inch plank,	30 00	105 18	
	1,700 bushels of sand,	6	102 00	
			7,338 09	
	Deduct materials furnished by 1st. contractor,		332 40	
	Total amount done on present plan,		7,005 69	7,005 69
	Total,		–	15,270 76
Pecumsagan Aqueduct.	240 cubic yards quarried rock, at	$1 00	240 00	
	2,435 lineal feet of timber,	8 cts.	194 80	434 80
	293.96 cubic yards earth excavation above water for west abutment,	40	117 58	
	99.49 " earth ex. below water,	1 00	99 49	
	74 " masonry in west abutment,	10 00	740 00	
	13 " earth excavation below water,	1 00	13 00	
	119.16 " ex. for wall above aqueduct,	40	47 66	
	30 " ex. for wall below aqueduct,	1 00	30 00	
	54.43 " wall between aqueduct and dam,	2 00	108 86	
	49.80 " cut stone delivered,	7 50	373 50	
	31.70 " hammer dressed stone delivered,	5 50	174 35	
	237 " backing delivered,	3 00	711 00	
	545 feet (lineal) timber in foundation of abutment,	12	65 40	
	2,000 " B. M. plank in do	30 00	60 00	
	Alteration of foundation, (Eng. est.)		15 00	
	245 feet (lineal) timber in foundation of pier,	12	29 40	
	987 feet B. M. of plank for pier,	$30 00	29 61	
			2,614 85	
	Deduct 790 feet timber furnished by 1st contractor,		63 20	
				2,551 65
	Total,		–	2,986 45

STATEMENT A—*Continued.*

Aq'ucts.	Description of work.	Amount of items.	Totals.
Du Page Aq'duct.	300 cubic yards earth excavation, at 30 cts.	$90 00	
	384.03 " cut stone, $11 00	4,224 23	
	363 " stone for cutting delivered, 4 00	1,452 00	
	763 " backing delivered, 3 50	2,670 50	
	3,180 feet (lineal) timber, at 12 cts.	381 60	
	6,343 " B. M. 2 inch plank, 50 00	317 15	
	8,800 bushels of sand delivered, 12	1,056 00	
			$10,191 58

Abstract of work performed on Aqueducts.

Aux Sable.	Total amount of work performed, - -	$291 80
Du Page.	Total amount of work performed, - - -	10,191 58
	Total on Middle division, - - -	10,483 38
Fox River.	Total amount of work performed, - -	89,414 19
L. Vermilion.	Total amount of work performed, - -	15,270 76
Pecumsagan.	Total amount of work performed, - -	2,986 45
	Total on Western division, - - -	107,671 40
	Total on Middle division, - - -	10,483 38
	Total upon aqueducts, - - - -	$118,154 78

Estimate of work performed on Dams.

Dams.	Description of work.	Amount of items.	Totals.
No. 1.	232 cubic yards cut stone, at $8 00	$1,856 00	
	64 " rough stone for cutting 4 00	256 00	
	100 " backing, 3 00	300 00	
			$2,412 00
No. 2.	197.04 cubic yards rock excavation, (est.) at $1 50 cts.	295 56	
	536.82 " gravel & detached rock under water (est.) 1 50	805 23	
	90.44 " gravel & detached rock under water (est.) 1 00	90 44	
	1,232.75 " masonry, 9 50	11,711 13	
	186.50 " puddle, (est.) 1 00	186 50	
	598.84 " gravel above dam, 50	299 42	
	17.46 " flagging, 9 50	165 87	
	One chain above dam on east side of river,		
	68.59 cubic yards excavation of loose rock, (est.) at 50 cts.	34 34	
	193.67 " slope wall, (est.) 1 30	251 77	
	213.89 " clay embankment (est) 75	160 41	

STATEMENT A—*Continued.*

Dams.	Description of work.	Amount of items.	Totals.
No. 2.	220.34 cubic yards rubbish emb. (est.) 50 cts.	$110 17	
	138 " embankm't at bridge abutment, 30	41 40	
	26.60 " muck excava. (est.) 25	6 65	
	30 " clay embankment between bridge abutments and canal bank, (est.) 60	18 00	
	210 feet (lineal) timber placed in upper recess of guard lock to form a dam, (est.) 25	52 50	
	Expense of maintaining road destroyed by dam,	25 00	
	Expense of opening and bridging ditch on section No. 80,	24 45	
			$14,278 84
	Total (Middle division)	–	16,690 84

Account of work done upon Stone Culverts.

No. of Section.	Description of work.		Amount.
108	746 cubic yards earth excavation, at	30 cts.	$223 80
	350 " do in ditch,	30	105 00
	156.04 " masonry,	$10 00	1,560 40
	160 " puddling,	25	40 00
	1,377 lineal feet timber in foundation,	20	275 40
	4,196 feet (B. M.) 2 inch plank,	30 00	125 88
	216 " do 1 inch do	30 00	6 48
	Total,		2,336 96
126	Grubbing and clearing,		50 00
	7,430 feet of timber for foundation, at	12 cts.	891 60
	Total,		941 60
145	305.56 cubic yards earth excavation, at	25 cts.	76 39
	156.04 " masonry in culvert,	$7 00	1,092 28
	7.06 " paving in well, (est.)	1 25	8 82
	4.07 " dry masonry, (est.)	2 50	10 17
	312.59 " puddling,	50	156 29
	1,191 lineal feet timber,	10	119 10
	3,911 feet (B. M.) plank,	20 00	78 22
	Total,		1,541 27
148	608.81 cubic yards earth excavation in pit, at	25 cts.	152 20
	21.41 " wall at head of culvert,	25	5 35
	107.22 " excavation in ditch below culvert,	25	26 80
	156.04 " masonry in culvert,	$7 00	1,092 28

STATEMENT A—*Continued.*

No. of Section.	Description of work.		Amount.
148	7.06 cubic yards paving in bottom of well,	1 25	$8 82
	8.09 " dry masonry in do	2 50	20 22
	388.68 " puddling,	50	194 34
	1,191 lineal feet of timber,	10	119 10
	3,506 feet (B. M.) 2 inch plank flooring,	20 00	8 10
	Total,		$1,697 33
149	1,742 lineal feet of timber delivered, at	10 cts.	$174 20
154	823.13 cubic yards earth excavation in pit, at	30 cts.	$246 94
	101.40 " rock do do	1 00	101 40
	35.55 " puddling,	40	14 22
	74.50 " cut stone delivered,	6 00	447 00
	1,328 lineal feet timber in foundation,	15	199 20
	4,824 feet (B. M.) 2 inch plank,	25 00	120 60
	Total,		$1,129 36
156	1,559 cubic yards earth excavation in pit, at	50 cts.	$779 50
	865 " rock do do	$1 50	1,297 50
	4,527 " earth excavation in culvert ditch,	30	1,358 10
	2,353 " rock do do	1 25	2,941 25
	275 " arch stone delivered,	14 00	3,850 00
	50 " do at quarry,	13 00	650 00
	169 " wing stone delivered,	8 00	1,352 00
	23 " buttress stone,	6 00	138 00
	20 " stone for breast wall,	3 50	70 00
	236 " ex. of muck under embankment,	20	47 20
	2,000 " embankment,	25	500 00
	50 " puddle in foundation,	80	40 00
	340 feet stone delivered by 1st contractor,	1 00	340 00
	5,500 " foundation timber,	15	825 00
	13,914 " (B. M.) plank,	35 00	486 99
	Total,		$14,675 54
158	800 cubic yards earth excavation, at	50 cts.	$400 00
	16 " detached rock excavation,	75	12 00
	245 " embodied do do	$1 50	367 00
	82 " cut stone delivered,	4 50	369 00
	30 " rough,	2 00	60 00
	2,543 lineal feet foundation timber,	8	203 44
	9,500 feet (B. M.) 2 inch plank,	20 00	190 00
	Done by first contractor,		1,601 94
	220.83 cubic yards earth excavation, at	50 cts.	110 41
	251 " do deposited by floods,	50	125 50
	179.68 " rock excavation,	1 50	269 52
	59 " do for timbers,	2 00	118 00
	2,150 lineal feet timber,	15	322 50
	14 cubic yards concrete masonry in foundation,	4 00	56 00
	13,914 feet (B. M.) plank,	35 00	486 99

STATEMENT A—*Continued.*

No. of Section.	Description of work.			Amount.
158	22.87	cubic yards masonry in buttress,	$9 00	$205 83
	159.57	" do in wings,	7 00	1,116 99
	326.94	" do in arches,	15 00	4,904 10
	16.07	" do in breast wall at head,	5 50	88 38
	24.63	" ex. of slate rock for breast wall,	1 50	36 94
	9.41	" puddling above, do	50	4 70
	86.07	" earth ex. in creek above culv't,	25	21 52
	32.44	" rock do do do	1 00	32 44
	780.95	" puddling around arch and wings,	50	390 47
	7,636.02	" embankment,	25	1,909 00
	467.75	" earth ex. in prism of canal,	20	93 55
	943	" earth excavation,	30	282 90
	127	" rock do	1 25	158 75
	265	" gravel do	60	159 00
	Expense of turning creek around culvert, (est.)			131 00
				11,024 49
	Deduct 56 cubic yards cut stone delivered by 1st. contractor, at		$4 $224 00	
	Deduct 56 cubic yards rough stone delivered by 1st. contractor, at		2 112 00	
	1,500 lineal feet timber, at		8 cts. 120 00	
	6,644 feet board measure plank, at		20 132 88	
				588 88
	Total done by 1st. contractor,			10,435 61
	Total done by 2d contractor,			1,601 94
	Total,			$12,037 55
162	182.51	cubic yards earth excavation in pit, at	25 cts.	$45 63
	424.39	" rock do do	1 00	424 39
	72.08	" earth excavation in ditch,	25	18 02
	19	" rock do do	1 00	19 00
	22.59	" rubble masonry in foundation,	4 00	90 36
	112.49	" masonry in arch,	7 00	787 43
	47.27	" do in wings,	10 00	472 70
	371.57	" puddling,	75	278 68
	121	" filling in canal bottom,	31	37 51
	1,267.10	" embankment,	31	392 80
	2.67	" dry wall at head of culvert,	1 00	2 67
	1,458	feet (lineal) timber,	20	291 60
	3,672	" (B. M.) 2 inch plank,	25 00	91 80
				$2,952 59

Abstract of work done upon Stone Culverts.

Culvert on Section, No. 108	$2,336 96	Brought up,		$22,496 26
do do 126	941 60	Culvert on Section No. 158	12,037 55	
do do 145	1,541 27	do do 162	2,952 59	
do do 148	1,697 33			37,486 40
do do 149	174 20			
do do 154	1,129 36			
do do 156	14,675 54	Total on Middle Division,		3,278 56
		do Western do		34,207 84
	$22,496 26			

STATEMENT A—*Continued.*

Account of work performed on Wood Culverts.

No. of Section.	Description of work.	Amount of items.	Totals.
119	467.70 cubic yards earth excavation, at 25 cts.	$116 92	
	1,941 lineal feet timber, 18	349 38	
	1,778 feet (B. M.) 2 inch plank, $25 00	44 45	
	718 " do 1 do 25 00	17 95	
	209.56 cubic yards puddling, 50	104 78	
			$633 48
121	2,160 lineal feet of timber, at 13 cts.	280 80	
	3,913 feet (B. M.) plank, $20 00	78 26	
			359 06
134	382.41 cubic yards earth excavation, at 25 cts.	95 60	
	2,490 lineal feet timber, 17	423 30	
	3,691 feet (B. M.) 1 & 2 in. plank, 19 00	70 13	
	175 cubic yards puddling, 48	84 00	
			673 03
136	429 cubic yards earth excavation, at 20 cts.	85 80	
	4,453 lineal feet timber, 15	667 95	
	2,900 feet (B. M.) 2 and 1 inch plank, 20 00	58 00	
			811 75
141	802.60 cubic yards earth excavation, at 26 cts.	208 67	
	4,543 lineal feet timber, 18	817 74	
	6,716 feet (B. M.) Plank, 16 50	110 81	
	387 cubic yards puddling, 50	193 50	
			1,330 72
142	366.31 cubic yards earth excavation, at 25 cts.	91 58	
	5.10 " rock do (est.) 75	3 82	
	3,691 feet (B. M.) 2 & 1 inch plank, 25 00	92 27	
	2,490 lineal feet timber, 16	398 40	
	264 cubic yards puddling, 1 00	264 00	
			850 07
161	123.73 cubic yards cemented clay excavation, (est.) 50 cts.	61 86	
	103.99 " rock excavation, 1 25	129 99	
	1,672 lineal feet timber, 357 feet at 18 cents, 610 feet at 25 cents, and 705 feet, 15 00	322 51	
	1,904 feet (B. M.) 2 inch plank, 22 00	41 89	
	786 " do 1 do 22	17 29	
	137.18 cubic yards embankment, 26	35 67	
	13 " wall at head of culvert, 1 00	13 00	
	114.50 " Puddling, 75	85 87	
			708 08
170	148.57 cubic yards earth excavation, at 15 cts.	22 28	
	240.63 " rock do 1 00	240 63	
	1,722 lineal feet timber, 455 feet at 15 cents, and 1,267 feet at 20	321 65	
	2,690 feet (B. M.) 2 & 1 inch plank, 25 00	67 25	
	114.50 cubic yards puddling, 75	85 87	
	777.49 " embankment, 25	194 37	
			932 05

STATEMENT A—*Continued.*

No. of Section.	Description of work.	Amount of items.	Totals.
183	199.29 cubic yards earth ex. in pit, at 25 cts.	$49 82	
	244.71 " rock do $2 00	489 42	
	2,110 feet (lineal) timber, 25	527 50	
	2,690 " (B. M.) plank, 35 00	94 15	
	135.25 cubic yards puddling around culvert, 62½	84 53	
	73.64 " earth ex. in prism of canal, 25	18 41	
	772.78 " embankment on one chain, 30	231 83	
	53.33 " embankm't puddled, 25	13 33	
	Expense of clearing culvert from deposite after spring floods (est.)	15 00	
			$1,523 99
	Extra work in connection with culvert.		
	1,902.77 cubic yards guard bank to turn brook, at 20 cts.	380 55	
	167.81 " mucking under bank, 16	26 85	
	281.58 " ex. for brook channel, 16	45 05	
	331.76 " embankment do 25	82 94	
	807.99 " deposite remov'd from canal, 35	282 80	
	41.11 " slope wall to protect bank, 75	30 82	
	41.48 " stone deposited across water-way to prevent wash, 60	24 89	
	530.13 " earth ex. in culvert ditch on sec. No. 183, 20	106 03	
	503.39 " embankment to turn brook on sec. No. 184, 20	100 68	
			1,080 61
	Total,	–	2,604 60
185	213.28 cubic yards earth excavation, at 25 cts.	53 32	
	366.96 " rock do $2 00	733 92	
	2,110 feet (lineal) timber, 25	527 50	
	2,690 " (B. M.) plank, 35 00	94 15	
	215.36 cubic yards puddling, 62½	134 60	
	530 " embankment, 30	159 00	
	115 " ex. in culvert ditch, 25	28 75	
			1,731 24
87	731.04 cubic yards earth excavation in pit, at 40 cts.	292 42	
	1,901 feet (lineal) timber, 25	475 25	
	2,788 " (B. M.) plank, $35 00	97 58	
	360.67 cubic yards puddling around culvert, 62½	225 42	
	411.71 " embankment, 30	123 51	
	53.33 " do puddled, 25	13 33	
			1,227 51

STATEMENT A—*Continued.*

Abstract of work done on Wood Culverts.

No. of Sections	Description of work.	Amount of items.	Totals.
119	Total amount of work performed,	$633 48	
121	" do do	359 06	
134	" do do	673 03	
136	" do do	811 75	
			$2,477 32
141	" do do	1,330 72	
142	" do do	850 07	
161	" do do	708 08	
170	" do do	932 05	
183	" do do	2,604 60	
185	" do do	1,731 24	
187	" do do	1,227 51	
			9,384 27
	Total,	–	11,861 59
	Total on wood culverts on Middle division,		2,477 32
	" do do Western do		9,384 27
	Total,	–	$11,861 59

Estimate of work performed on Waste Wiers.

No. of Sections.	Description of work.	Amount of items.	Totals.
W W on Sec. 175	93 cubic yards earth excavation in pit, at 20 cts.	$18 60	
	26 " cut stone, $5 50	143 00	
	624 feet (lineal) timber, 14	87 36	
	819 " plank (B. M.) 20	16 38	
			$265 34
W W on Sec. 191	634 cubic yards earth excavation, at 20 cts.	126 80	
	94 " puddling, 40	37 60	
	88 " masonry, 7 50	660 00	
	1,235 feet (lineal) timber, 20	247 00	
	5,066 " (B. M.) 2 & 1 inch plank, 25 00	126 65	
			1,198 05
	Total on W. W. (on Western division,)	–	$1,463 39
	Estimate of Hydraulic Cement.		
	104,450 bushels on Middle division, at 50 cts.	$52,225 00	
	63,914 " Western do 50	31,957 00	
			$84,182 00

STATEMENT A—*Continued.*

Abstract of work performed on the Illinois and Michigan canal from the commencement to December 1st, 1843.

SUMMIT DIVISION.

No. of Section.	Amounts.	No. of Section.	Amounts.
Chicago River Section.	$3,515 75	33	$20,965 08
		34	1,861 73
1	16,176 42	35	7,501 60
2	32,113 22	36	13,265 70
3	25,181 22	37	23,276 75
4	28,071 70	38	23,130 42
5	8,612 00	39	22,597 70
6	40,290 67	40	17,087 03
7	14,630 75	41	2,141 84
8	32,199 27	River Sec.	67,157 72
9	8,896 00	45	49,640 34
10	8,381 00	46	59,813 39
11	21,000 19	47	48,948 08
12	4,507 50	48	77,310 39
13	7,302 50	49	58,462 34
14	27,530 59	*50	114,145 97
15	42,802 89	51	109,903 92
16	43,251 25	52	47,070 10
17	11,637 50	53	82,740 59
18	6,039 25	54	87,654 45
19	6,968 00	55	28,696 86
20	6,519 25	56	71,209 85
21	8,278 95	57	83,526 10
22	16,080 58	58	92,614 35
23	17,009 12	59	39,869 43
24	5,961 25	60	75,364 00
25	15,089 55	61	77,839 61
26	11,520 02	62	36,258 76
27	5,349 58	63	44,384 03
28	3,854 75	64	63,518 59
29	12,059 20	65	33,937 13
30	1,862 20	66	37,083 90
31	2,735 00	67	22,489 98
32	1,180 00	68	42,215 50
		Total,	$2,180,290 35

Sag and Big run ditch,	$19,227 05
Protection,	30,917 31
South branch and Summit ditches,	23,947 65
Archer and connection ditch,	1,130 16
Changing channel of Big run,	1,894 71

SUMMARY.

Sections,	$2,180,290 35
Sag and Big run ditch,	19,227 05
Protection,	30,917 31
South Branch and Summit ditches,	23,947 65
Archer & connection ditch,	1,130 16
Changing channel of Big run,	1,894 71
Total S. D'ion,	$2,257,407 23

STATEMENT A—*Continued.*

MIDDLE DIVISION.

Wood culvert on Sec. 119	$633 48	Dam No. 1 - -	$2,412 00
do do 121	359 06	do 2 - -	14,278 84
do do 134	673 03		
do do 136	811 75	Total, dams, -	$16,690 84
Total, wood culverts,	$2,477 32		
		Aux Sable Acqueduct,	$291 80
		Du Page do	10,191 58
Stone culvert on Sec. 108	$2,336 96		
do do 126	941 60	Total, acqueducts,	$10,483 38
Total, stone culverts,	$3,278 56		

No. of Section.	Amounts.	No. of Section.	Amounts.
69	$30,250 01	103	$28,234 11
70	26,883 79	104	9,835 28
71	28,292 34	105	33,915 65
72	22,160 11	106	57,651 22
73	34,216 46	107	73,765 96
74	37,257 79	108	36,803 02
75	53,036 06	112	780 41
76	31,587 29	113	1,778 33
77	36,472 09	114	244 97
78	34,622 21	115	1,433 93
79	30,566 83	117	582 92
80	9,240 59	118	2,763 15
81	11,576 86	119	4,082 06
82	18,968 73	120	420 72
83	13,741 90	121	328 11
84	9,345 28	122	802 36
85	9,324 11	123	100 38
86	6,696 77	124	2,713 54
87	14,567 06	125	923 38
88	8,608 58	126	1,243 49
89	10,724 24	127	3,016 36
90	5,796 75	128	1,098 06
91	3,572 92	129	1,469 22
92	6,354 24	130	3,260 20
93	9,479 24	131	1,935 75
94	1,862 11	133	195 04
95	3,317 70	135	5,196 71
96	15,108 54	137	766 99
97	18,408 50	138	767 12
98	13,594 76		$894,004 05
99	13,109 64		
100	8,042 67	Du Page Feeder.	5,194 11
101	7,123 68		
102	33,985 76		$899,198 16

STRUCTURES, &c.	
Dry Dock,	$741 64
Cement,	52,225 00
Cement Houses.	1,477 00
Lock No. 1	$27,287 08
do 2	23,347 48
do 3	4,950 71
do 4	17,049 75
do 5	37,095 36
do 6	20,244 43
do 7	4,615 84
do 8	111 80
Guard lock No 1	14,645 16
Total Locks,	$149,347 61

RECAPITULATION.

Sections,	$899,198 16
Locks,	149,347 61
Wood culverts,	2,477 32
Stone do	3,278 56
Dams,	16,690 84
Aqueducts,	10,483 38
Cement,	52,225 00
Cement Houses,	1,477 00
Dry Dock,	741 64
Total,	$1,135,919 51

STATEMENT A—*Continued.*

WESTERN DIVISION.

No. of Section.	Amounts.
141	$144 98
143	23 94
144	22 05
145	3,475 38
146	7,660 03
148	1,928 45
149	5,978 20
152	1,179 36
153	1,626 48
155	11,727 24
156	13,875 28
157	4,207 34
158	6,974 37
159	10,978 91
160	11,769 06
161	10,016 74
162	7,702 29
163	14,504 13
*164	20,550 62
165	16,307 62
166	15,750 40
167	23,699 84
168	10,373 91
169	12,345 53
170	8,567 02
171	6,908 69
172	9,095 89
173	8,974 88
†174	11,992 91
175	7,321 74
176	4,331 70
177	5,804 79
178	3,025 70
179	8,070 83
180	9,217 35
181	8,091 92
182	9,919 64
183	9,952 86
184	17,866 89
185	10,126 79
186	39,496 60
187	36,706 49
188	17,330 59
189	11,264 12
190	21,858 75
191	42,041 26
192	20,128 18
193	26,489 82
194	16,189 80
195	75,069 99
196	111,828 00
197	35,396 82
196 & 197 Pe'sagan channel,	22,422 50
	16,241 38
	$844,556 45

Sections, Structures, &c.	Amount.
FOX RIVER FEEDER.	
Section No. - - - 1	$42,070 96
do - - - 2	13,628 10
do - - - 3	3,357 16
do - - - 4	10,254 51
do - - - 5	17,528 58
do - - - 6	3,308 46
do - - - 7	5,819 02
do - - - 8	22,032 28
Stone culvert on Section, - 3	4,346 71
Total,	$122,345 78
LATERAL CANAL.	Amount.
Section No. - - - 1	$20,594 03
do - - - 2	4,845 93
Total,	$25,439 96
Slides on Sections No. 191, 192, 193, and 194, - - - -	7,147 01
Protection wall on Sec. 194 and 195,	10,216 96
ABSTRACT.	Amount.
Total amount of Sections, - -	$844,556 45
do Fox River Feeder, - -	122,345 78
do Lateral canal, - - -	25,439 96
do Locks, - - - -	140,896 08
do Aqueducts, - - -	107,671 40
do Stone culverts, - - -	34,207 84
do Wood do - - -	9,384 27
do Waste weirs, - - -	1,463 39
do Cement, - - - -	31,957 00
do do houses, - - -	1,608 30
do Protection walls, - -	10,216 96
do Lock gate timber, - -	403 20
do Repairs of Fox river dam, G. Lock, &c.	6,626 43
do Slides on Sec. No. 191, 192, 193 & 194	7,147 01
	$1,343,924 07

*An additional amount of $66 86 was allowed Roberts & Co. after final estimate upon Section 164.

†An error was made in the estimate of work done by Wm. Mostin on Section No. 174, of $250 in his favor.

STATEMENT A—*Continued.*

Abstract of work performed upon the Illinois and Michigan Canal from the commencement of operations to the 1st *of December* 1843.

No of section.	Contractor's names.	Amount done by each contractor.	Totals.
			dolls. cts.
Chicago River section.			$3,515 75
1	Beaubien Boyer & Walker	7,472 47	
	M Beaubien	8,703 95	
			16,176 42
2	Mallory & Hurlburt		32,113 22
3	Osborne & Stewart		25,181 22
4	do do		28,071 70
5	Ogden & Dole		8,612 00
6	James Spence	8,114 97	
	Ogden & Dole	32,175 70	
			40,290 67
7	Harmon, Loomis & Raymond		14,630 75
8	Clybourne & Mallory	3,274 02	
	Harmon, Loomis & Raymond	28,925 25	
			32,199 27
9	Harmon, Loomis & Raymond		8,896 00
10	Clybourne & Mallory	2,322 00	
	Temple, Carver & Co.	4,045 58	
	Temple & Carver	2,013 42	
			8,381 00
11	Clybourne & Mallory	1,676 25	
	Temple, Carver & Co.	1,299 25	
	Temple & Carver	18,024 69	
			21,000 19
12	Temple & Carver & Temple & Co.		4,507 50
13	Greenwood & Bishop & Jas E Bishop		7,302 50
14	do do do		27,530 59
15	do do do		42,802 89
16	Greenwood, Osborne & Strail		43,251 25
17	do do do		11,637 50
18	Boon & Hubbard		6,039 25
19	Boon & Hubbard		6,968 00
20	do do		6,519 25
21	Washburn & Nearing	2,163 00	
	Geo A Clark	1,735 00	
	B Wilder & Co	4,380 95	
			8,278 95
22	do		16,080 58
23	Taylor, Breese & Co.	11,878 35	
	Jas E Bishop	5,130 77	
			17,009 12
24	Taylor, Breese & Co.		5,961 25
25	Boyd, Zell & Co.	12,644 55	
	Armour, Lamb & Co.	2,445 00	
			15,089 55
26	Boyd, Zell & Co.	10,476 94	
	Armour, Lamb & Co.	1,043 08	
			11,520 02
27	Edward Cody		5,349 58
28	do		3,854 75
29	Thos Armstrong		12,059 20
30	Harney & Flockhart		1,862 20
31	Enoch Minor		2,735 00
32	Jas Hagan		1,180 00

STATEMENT A—*Continued.*

No of Section.	Description of work.	Amount done by each contractor.	Totals.
			dolls. cts.
33	Jas Hagan	$350 00	
	J Zarwood	20,615 08	
			$20,965 08
34	Robert Jobson		1,861 73
35	Beach, Rood & Co.		7,501 60
36	Irvin, Kittering & Co.		13,265 70
37	Beach, Rood & Co.	21,892 05	
	Gay & Allen	1,384 70	
			23,276 75
38	Beach, Rood & Co.	22,796 97	
	Gay & Allen	333 45	
			23,130 42
39	Irvin, Kittering & Co.		22,597 70
40	do do		17,087 03
41	Dodd, Morehouse & Co.	2,106 00	
	do do	35 84	
			2,141 84
Riv. Sec.	John Bracken		67,157 72
45	Seth Kershaw	7,658 24	
	Alton & Pestana	38,118 70	
	Balentine & Douglass	3,863 40	
			49,640 34
46	Coburn & Granger	10,723 57	
	Smith, Granger & Co.	49,089 82	
			59,813 39
47	Wm Avery		48,948 08
48	do		77,310 39
49	A Mc R Groves	6,024 83	
	L C Hugunin	1,825 84	
	J & S R Clifford	50,611 67	
			58,462 34
*50	A Mc R Groves	1,401 86	
	L C Hugunin	15,392 05	
	John Rodgers	97,352 06	
			114,145 97
51	C B Dodson	31,668 20	
	Hugunin & Brown	78,235 72	
			109,903 92
52	C B Dodson	6,260 40	
	Hugunin & Brown	40,809 70	
			47,070 10
53	Gavin & Johnson	11,297 44	
	E M Daggett	1,694 00	
	J T & D L Roberts	69,749 15	
			82,740 59
54	James Brooks		87,654 45
55	James Brooks		28,696 86
56	Stewarts, Sanger & Wallace		71,209 85
57	do do do		83,526 10
58	John K Boyer	18,859 20	
	Pruyne, Negus & Rodgers	73,755 15	
			92,614 35
59	John K Boyer	1,141 92	
	Pruyne, Negus & Rodgers	38,727 51	
			39,869 43
60	Williams, Lamb & O'Harra	34,044 25	
	Williams & Hardy	41,319 75	
			75,364 00

*The amount of $2,308 80 per centage money under L. C. Hugunin's contract is also included in the am't. of work estimated to John Rodgers.

STATEMENT A—*Continued.*

No of Section.	Contractor's names.	Amount done by each contractor.	Totals.
			dolls. cts.
61	Stevens & Douglass	$27,396 70	
	Stevens, Douglass & Norton	50,442 91	
			77,839 61
62	Stevens & Douglass	3,191 84	
	John Lonergan	33,066 92	
			36,258 76
63	John Lonergan		44,384 03
64	Williams, Lamb & O'Harra	1,198 41	
	John V Singer	62,320 18	
			63,518 59
65	Williams, Lamb & O'Harra	19 18	
	Brooks & Singer	660 37	
	Pettibone & Root	4,799 00	
	Singer & Cozens	28,458 58	
			33,937 13
66	Brooks & Singer	2,756 65	
	Pettibone & Root	34,727 25	
			37,083 90
67	W B & E Newton		
68	W B & E Newton		
South Branch and Summit Ditches.	T Barnum	392 16	
	J Spence	1,990 06	
	Ogden & Dole	1,197 07	
	Clybourne & Mallory	2,642 20	
	Temple & Carver	5,090 40	
	Greenwood & Bishop	5,130 40	
	J Malody	3,089 26	
	Harmon & Loomis	4,416 10	
			23,947 65
Archer& connection ditch	John Hart	128 10	
	John Malody	1,002 06	
			1,130 16
Turning Big Run	Burns & Cassin		1,894 71
Sag and Big Run ditch	B Noland	932 70	
	J McDonald	1,840 59	
	Fitzgerald & Connell	642 23	
	McDonald & Millan	420 00	
	Hunt & Martin	2,069 28	
	Morris & Amer	2,928 70	
	Geo Beebe	3,757 58	
	Pruyne, Negus & Rodgers	1,633 47	
	Sanger, Wallace & co	1,011 04	
	Seth Kershaw	157 10	
	M Hunt & co	619 59	
	Roberts & Roberts	738 09	
	R Morris	2,476 68	
			19,227 05
Protection. Sec. No. 46	Granger & co	1,471 30	
47 & 48	Wm Avery	3,814 18	
49	J S & R Clifford	1,595 24	
50	John Rogers	718 88	
51 & 52	Hugunin & Brown	2,778 27	
53	Roberts & Roberts	2,776 72	
54 & 55	James Brooks	5,217 29	
56 & 57	Sanger, Wallace & Co	5,695 72	
58 & 59	Pruyne, Negus & Rodgers	5,404 54	
60	Thos Williams	1,445 17	
			30,917 31

STATEMENT A—*Continued.*

MIDDLE DIVISION.

Abstract of work done.

No of Section.	Contractor's names.	Amount done by each contractor.	Totals.
		dolls. cts.	
69	George Barnett		$30,250 01
70	do do		26,883 79
71	do do		28,292 34
72	do do		22,160 11
73	Charles Kerr		34,216 46
74	Sterling & Blanchard		37,257 79
75	do do		53,036 06
76	James Ryan		
77	Steele & Amer		
78	*Ryan & Matteson	6,342 89	
	Matteson & Shoemaker	28,279 32	
			34,622 21
79	*N & S S Davis	9,948 38	
	C D Davis	20,618 45	
			30,566 83
80	T V Vanest	1,529 58	
	Samuel R Bradley	7,711 00	
			9,240 59
81	McLaughlin & co		11,576 86
82	Jeremiah Crotty		18,968 73
83	do do		13,741 90
84	A P McDonald		9,345 28
85	Hendricks & Rush		9,324 11
86	do do		6,696 77
87	do do		14,567 06
88	Richard Morris		8,608 58
89	E Gay		10,724 24
90	do		5,796 75
91	L O'Connor	585 22	
	Lot Whitcomb	2,987 70	
			3,572 92
	Wm A Chatfield		6,354 24
92	Benj M Webber		9,479 24
93	Jno Hossack	69 20	
94	M Maher	1,792 91	
			1,862 11
95	John Hossack		3,317 70
96	Hendricks & Rush		15,108 54
97	do do		18,408 50
98	Sherburn & Gobin		13,594 76
99	Obed Smith		13,109 64
100	Sherburn & Gobin		8,042 67
101	Timothy Lucy	316 40	
	Caldwell & Mulligan	6,807 28	
			7,123 68
	A Drummond	160 00	
102	Jas Drummond	12,865 31	
	Obed Smith	20,960 45	
			33,985 76
	H D Risley		28,234 11
103	Clifford & Alexander		9,835 28
104	Crawford & Harvey		33,915 65
105	*See estimate of work done on these sections.		

STATEMENT A—*Continued.*

No of Sections.	Contractor's names.	Amount done by each contractor.	Totals.
			dolls. cts.
106	Crawford & Harvey		57,651 22
107	Wm Harvey	400 00	
	Crawford & Harvey	73,365 96	
			73,765 96
108	Wm Harvey	1,059 90	
	Crawford & Harvey	35,743 12	
			36,803 02
112	Jacob Francis		780 41
113	M Benjamin		1,778 33
114	M Neary		244 97
115	B Van Alstine		1,433 93
117	T Abbott	26 28	
	A Kinchlow	556 54	
			582 82
118	Mott & Owen	206 30	
	A Kinchlow	2,556 85	
			2,763 15
119	Jacob Francis		4,082 06
120	do		420 72
121	M Benjamin		328 11
122	do		802 36
123	Jas Burke		100 38
124	Jas Maloy		2,713 54
125	Armstrong & Hart		923 38
126	J L Pickering	438 68	
	Armstrong, Perce & Claypool	804 81	
			1,243 49
127	J Croneen		3,016 36
128	Beale & Twitchell		1,098 06
129	do do do		1,469 22
130	W McDonald		3,260 20
131	McDonald, Williams & co		1,935 75
133	Thos O'Sullivan		195 04
135	Reddick & O'Sullivan		5,196 71
137	C L Lukins & co		766 99
138	M Costelo		767 12
DuPage Feeder	N & S S Davis		5,194 11

WESTERN DIVISION.

No. of Section.	Contractor's names.	amount done by each contractor.	Totals.
141	Henesy, Brennon & Cady		144 98
143	J Crotty		23 94
144	do		22 05
145	do		3,475 38
146	do		7,660 03
148	Armour & Lamb		1,928 45
149	M Kennedy & co		5,978 20
152	T & D Kelly		1,179 36
153	T Kelly		1,626 48
155	L Kimball		11,727 24
156	Maus & Flood	3,082 61	
	Wm L Perce	10,474 27	
	M Donohue	318 40	
			13,875 28

STATEMENT A—*Continued.*

No. of Section.	Contractor's names.	Amount done by each contractor.	Totals.
157	Maus & Flood		$4,207 34
158	do do	$2,968 85	
	Benj F Lamb	4,005 52	
			6,974 37
159	Maus & Flood	3,440 84	
	Benj F Lamb	7,538 07	
			10,978 91
160	Maus & Flood	212 57	
	Benj F Lamb	11,556 49	
			11,769 06
161	Edward McSweeny		10,016 74
162	Armour & Knox		7,702 29
163	P H Flood	1,126 29	
	Edward McSweeny	13,377 84	
			14,504 13
164	Glover & co	7,018 56	
	J Crotty	13,532 06	
			20,550 62
165	John Carey	1,768 61	
	J Crotty	14,539 01	
			16,307 62
166	C Seabaugh	331 67	
	Lamb, Preston & co	15,418 73	
			15,750 40
167	D Sanger & Sons		23,699 84
168	Wm E Armstrong		10,373 91
169	do do		12,345 53
170	do do		8,567 02
171	A Mc R Groves	2,449 83	
	W & T Harkness	4,458 86	
			6,908 69
172	J Cronkite & co	3,092 00	
	Abner Sherman	2,173 09	
	J C Champlin	3,830 80	
			9,095 89
173	Morris W Martin	371 33	
	Wm Harkness	6,322 00	
	Mrs Harkness	2,281 55	
			8,974 88
174	Wm O'Harra	522 96	
	Wm Mostin	3,543 55	
	J Armour	7,926 40	
			11,992 91
175	Ezra Durgin		7,321 74
176	do		4,331 70
177	Johnson & Johnson		5,804 79
178	Nathaniel Eells		3,025 70
179	A Mc R Groves	1,634 02	
	M Connolly	1,774 46	
	Wm Caldwell	4,662 35	
			8,070 83
180	Wm E Armstrong		9,217 35
181	Kenyon & Lamb		8,091 92
182	Edward McSweeny		9,919 64
183	Clark & Dickinson		9,952 86
184	Edward McSweeny	8,199 33	
	Clark & Dickinson	9,667 56	
			17,866 89
185	Wm O'Harra	1,217 02	

STATEMENT A—*Continued.*

No. of Section.	Contractor's names.	Amount done by each contractor.	Totals.
185	A A Markle	$792 10	
	G W Armstrong	3,157 55	
	Clark & Dickinson	4,960 12	
			$10,126 79
186	Wm O'Harra	9,223 16	
	A A Markle	1,400 03	
	G W Armstrong	18,495 58	
	Clark & Dickinson	10,377 83	
			39,496 60
187	Groves & Armstrong	5,420 71	
	W E & G W Armstrong	31,285 78	
			36,706 49
188	Wm Mostin		17,330 59
189	Benj F Lamb		11,264 12
190	Sanger, Nichols & Beale		21,858 75
191	do do do		42,041 26
192	do do do		20,123 18
193	do do do		26,489 82
194	Jas McMartin	6,682 28	
	Townsend, Kinney & Byrne	9,507 52	
			16,189 80
195	Peyton & Kinney	20,344 56	
	H L Kinney	1,537 01	
	Isaac Hardy	53,188 42	
			75,069 99
196	H L Kinney	19,899 01	
	Isaac Hardy	91,928 99	
			111,828 00
197	H L Kinney	17,702 74	
	Isaac Hardy	17,694 08	
			35,396 82
196 & 197	H L Kinney		22,422 50
Slides on sections 191, 2, 3, & 4.	Edward McSweeney & Co		7,147 01
Lat'l. Canal			
sec 1.	W F Walker		20,594 03
2	J Crotty		4,845 93
Pecumsagan Channel	Nichols & Beale		16,241 38
Fox R. Feeder			
sec. 1	Greene & Stadden	20,459 49	
	do do dam	8,364 92	
	do do guard lock	13,246 55	
			42,070 96
2	do do		13,628 10
3	do do		3,357 16
4	do do		10,254 51
5	do do		17,528 58
6	Stephen Emerson		3,308 46
7	Cronkhite & Co	1,440 16	
	F Chambers	4,378 86	
			5,819 02
8	Crozier & Walker		22,032 28
Culvert section 3	D Sanger & Sons		4,346 71

STATEMENT A—*Continued.*

Abstract of work done upon Locks.

No of Lock.	Contractor's names.	Amount done by each contractor.	Totals.
1	George Barnett		27,287 08
2	do do		23,347 48
3	Charles Kerr		4,950 71
4	do do		17,049 75
5	Wilson, Brodie & Co		37,095 36
6	Hall & Grant	$3,311 20	
	Peter Stewart	16,933 23	
			20,244 43
7	Hall & Grant	331 50	
	Peter Stewart	4,284 34	
			4,615 84
8	J Kinsley		111 80
Guard Lock No 1	Steele & Amer		14,645 16
	Total on Middle Division,		149,347 61
9	M Kennedy & Co		2,339 65
10	do do		3,854 82
11	Thos Beale	6,993 94	
	D Sanger & Sons	21,018 59	
			28,012 53
12	Wm Byrne	252 00	
	Armstrong & Johnson	3,215 00	
	Lamb & Armour	23,757 66	
			27,224 66
13	E Durgin & Co	7,449 60	
	Edward Mc Sweeney	6,933 99	
			14,383 59
14	W Byrne		30,342 10
15	Cooper & Twitchell	25,994 16	
	Sanger & Beale	3,871 97	
Side cut lock No 1	Walker & Lamb		29,866 13
			4,872 60
	Total on Western Division,		140,896 08
	do Middle do		149,347 61
	Total,		290,243 69

STATEMENT A—*Continued.*

Abstract of work performed upon Dams, Culverts, Aqueducts, &c.

Description.	Contractors' names.	Amo't. done by each contractor.	Totals.
Dam No. 1	Wilson, Brodie & Co		2,412 00
2	Steele & Amer		14,278 84
	Total, Middle Division,		16,690 84
Wood culverts.			
section 119	Campbell & McGire		633 48
121	do do		359 06
134	Butterfield & Lukins		673 03
136	do do		811 75
	Total, Middle Division,		2,477 32
Wood culverts.			
section 141	Butterfield & Lukins		1,330 72
142	R Johnson		850 07
161	Hanly & Healy		708 08
170	T O Sullivan		932 05
183	Clark & Dickinson		2,604 60
185	M Neary		1,731 24
187	Clark & Dickinson		1,227 51
	Total, Western Division,		9,384 27
	do Middle do		2,477 32
	Total, Wood Culverts,		12,861 59
Stone culverts.			
section 108	Harvey & Co		2,336 96
126	W L Perce & Co		941 60
145	M Killalea		1,541 27
148	do		1,697 33
149	M Kennnedy & Co		174 20
151	do do		1,129 36
156	Patrick H Flood	340 00	
"	W L Perce	14,335 54	
			14,675 54
158	Samuel Howard	1,601 94	
"	Wm L Perce	10,435 61	
			12,037 55
162	D Kelly		2,952 59
Fox R. aqueduct.	D Sanger & Sons		89,414 19
L. Vermilion do	Townsend, Kinney & Co	3,978 17	
"	Wm Byrne	*4,286 90	
"	Byrne & Cahill	7,005 69	
			15,270 76
Pecumsagan do	Townsend, Kinney & Co	434 80	
"	Thos Beale	2,551 65	
			2,986 45
Du Page do	Peter Stewart		10,191 58
Aux Sable do	J Kinsley		291 80
Waste weir on section No 175.	Hanley & Healy		265 34
Do on section 191	do do		1,463 39
Dry dock at Lockport	George Barnett		741 64

*The amount of work done by Wm. Byrne was over estimated; the true am't. as shown by a subsequent estimate being but $3,339 95. The payment on this contract to Byrne was $3,643 67.

STATEMENT A—*Continued.*

Description.	Contractors' names.	Amount done by each contractor.	Totals.
Hydraulic cement	Hiram Norton (Middle Division)	52,225 00	
do do	do do (Western do)	31,957 00	
			84,182 00
Repairs on Fox R. Dam, G. Lock, &c.	Green, Stadden & Co		$6,626 43
Lock Gate Timber	Conley & Sons		403 20
Protection Walls sections 194 & 195	A Hyatt		10,216 96

ERRATA—Page 14—In the statement of the contingent account for 1844, the item of "right of way," amounting to the sum of $11,470 00, was omitted in the manuscript; and the item of "negotiation" should read $263 23 instead of $253 23.