

MAINE STATE LEGISLATURE

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EIGHTY-FIFTH LEGISLATURE

Legislative Document

No. 783

House of Representatives, Feb. 27, 1931.

On motion of Mr. Leonard of Hampden, tabled pending consideration. Specially assigned for Friday, March 6th. 500 copies ordered printed.

STATE OF MAINE

IN THE YEAR OF OUR LORD ONE THOUSAND NINE
HUNDRED AND THIRTY-ONE

STATE HIGHWAY COMMISSION
STATE OF MAINE
AUGUSTA

February 25, 1931.

To the Honorable House of Representatives:

We hand you herewith a report on the construction of a section of State highway in the towns of Moscow and Caratunk, in accordance with the Order of the House of Representatives on February 5, 1931.

Respectively submitted,

FRANK A. PEABODY
EDWARD E. FARNSWORTH
W. J. LANIGAN

State Highway Commission

REPORT ON CONSTRUCTION OF MOSCOW- CARATUNK HIGHWAY

1. REASON FOR RELOCATION AND COST

The state highway construction referred to is located on U. S. Route 201 and in the towns of Moscow and Caratunk. The work involved the construction of about 11.8 miles of gravel road on difficult new location and the construction of

three bridges. The old highway had not been constructed as a state highway previous to the change of location.

On account of plans which contemplated the development of water power on the Kennebec River and which would make necessary the relocation of the state highway, the Central Maine Power Company in 1923 requested the State Highway Department to make preliminary surveys in order to develop a new location which would be satisfactory to the State. A survey party was assigned to this work late in the season of 1923 and work was continued on surveys and plans during the season of 1924.

The cost of this work was \$7,551.19 and the State was reimbursed in full by the Central Maine Power Company.

The Central Maine Power Company did not proceed with the water power project at this time.

On April 24, 1928, the State Highway Commission entertained a delegation of citizens from Somerset County who were interested in the construction of the unimproved road between Bingham and Caratunk. The Commission stated to this delegation that improvement of this section of state highway had been held up pending the proposed hydro-electric development by the Central Maine Power Company near Bingham and that if a dam were constructed as proposed it would be necessary to relocate the highway through Moscow and Caratunk. The Commission also stated that if the Central Maine Power Company did not proceed with the construction of the dam they would undertake the construction of the road on the old location during the season of 1929.

The Central Maine Power Company, however, did proceed with the construction of a dam near Bingham and a relocation of the state highway became necessary. The alignment and grades provided by the surveys and plans made in 1924 did not appear to be adequate and safe for the increased traffic which was to be expected. The engineers of the Power Company and the State were in agreement on this point. The Central Maine Power Company at its own expense placed a survey party on the work in order to revise the alignment and secure better grades. The Central Maine Power Company at its own expense prepared plans, which were reviewed and checked by the State Highway Department before being submitted to the U. S. Bureau of Public Roads for approval as plans for a Federal Aid road project.

In 1928 the County Commissioners of Somerset County altered the location of the County road between Bingham and Caratunk and ordered the old road discontinued upon the completion and opening for travel of the new way. No damages were allowed to any party by reason of the alteration. Land for the new highway location was furnished by the Central Maine Power Company. The State, therefore, has not been required to purchase new right of way.

Plans were prepared for two projects. The first project, known as Federal Aid Project 124-A, was located on the southerly end of the road in the town of Moscow. The length, according to preliminary plans, was 4.2 miles. The constructed length was 4.215 miles. The second project, known as Federal Aid Project 124-B, was on the northerly end of the road and the length was estimated at 7.575 miles. The constructed length was 7.587 miles.

The Power Company estimated that the construction of the first project, to such an extent that traffic could use it during the winter of 1929-30, would provide for any condition encountered on account of flowage over the old road. First consideration, therefore, was given to this project.

PROJECT 124-A

The detailed estimate of cost of Project 124-A, including bridge at Station 134 plus 75, was as follows:

Date of Estimate July 9, 1929

Quantity	Unit	Description	Unit Price	Amount
33.25	Acres	Clearing and grubbing	\$125.00	\$4,156.25
50512	Cu. Yds.	Earth excavation	.60	30,307.20
15368	Cu. Yds.	Rock excavation	3.00	46,104.00
1560	Cu. Yds.	Structure excavation	1.25	1,950.00
34310	Cu. Yds.	Common borrow	.70	24,017.00
10331	Cu. Yds.	Gravel base course	1.00	10,331.00
4956	Cu. Yds.	Gravel surface course	1.20	5,947.20
145	Cu. Yds.	Class A Concrete	20.00	2,900.00
695	Cu. Yds.	Class B Concrete	19.00	13,205.00
23150	Lbs.	Steel reinforcement	.05	1,157.50
464	Lin. Ft.	Laying 15" metal pipe	.50	232.00
888	Lin. Ft.	Laying 18" metal pipe	.60	532.80
642	Lin. Ft.	Laying 24" metal pipe	.70	449.40
804	Lin. Ft.	Laying 30" metal pipe	.80	643.20
210	Lin. Ft.	Laying 36" metal pipe	.90	189.00

Quantity	Unit	Description	Unit Price	Amount
36	Lin. Ft.	Laying 42" metal pipe	1.00	36.00
78	Lin. Ft.	Laying 48" metal pipe	1.10	85.80
15360	Lin. Ft.	Wire cable guard rail	.65	9,984.00
Sub-total Total of contract items (To be compared with contractor's bid)				\$152,227.35

Materials Furnished by State

Quantity	Unit	Description	Unit Price	Amount
464	Lin. Ft.	15" metal pipe	\$1.55	\$ 719.20
888	Lin. Ft.	18" metal pipe	1.90	1,687.20
642	Lin. Ft.	24" metal pipe	3.00	1,926.00
804	Lin. Ft.	30" metal pipe	3.75	3,015.00
210	Lin. Ft.	36" metal pipe	5.95	1,249.50
36	Lin. Ft.	42" metal pipe	6.60	237.60
78	Lin. Ft.	48" metal pipe	8.25	643.50
Estimated material furnished by State—Sub-total				\$ 9,478.00
Engineering and contingencies				16,170.53
Grand Total				\$177,875.88

Proposals were received by the Commission on July 17, 1929, for the construction of Federal Aid Project 124-A in Moscow, based on the above estimate of quantities, with the following results:

1. Central Securities Corporation, Augusta, Maine	\$131,038.04
2. James H. Kerr, Rumford, Maine	165,172.65
3. Atwood-Thomas Construction Co., Middleboro, Mass.	167,991.00
4. Hagan-Thibodeau Construction Co., Eden Park, R. I.	184,565.85
5. Wyman & Simpson, Inc., Augusta, Maine	184,603.70
6. Manzie I. Rogers, Bangor, Maine	188,856.30
7. Naugler Brothers, Brunswick, Maine	191,985.40
8. Kennebec Construction Corp., Waterville, Maine	202,632.10
9. Angelo Susi & Co., Roslindale, Mass.	206,934.10
10. Frank Lanza & Sons, Boston, Mass.	208,955.50
11. W. H. Hinman, Inc., Medway, Mass.	213,379.35
12. D. M. Susi, Pittsfield, Maine	226,391.90
13. Amos D. Bridge's Sons, Inc., Hazardville, Conn.	275,019.05
14. Joseph McCormick, East Providence, R. I.	277,013.65
15. Sawyer & Carlisle Construction Co., Ellsworth, Maine	288,419.75
Engineer's contract estimate	\$152,227.35

A statement of bids in detail is attached hereto.

Contract for Project 124-A was awarded on July 17, 1929, to the Central Securities Corporation of Augusta, Maine.

BIDS RECEIVED BY MAINE STATE HIGHWAY COMMISSION—DECEMBER 18, 1929

F. A. Project No. 124-B—"H" Moscow & Caratunk—7.57 Miles Gravel Road

Item	Quantity	Unit	Description	W. H. Hinman, Medway, Mass.		Central Securities Corp., 9 Green Street, Augusta, Maine		James H. Kerr, Rumford, Maine		Callan Const. Co., Bristol, R. I.		Frank Lanza & Sons, 608 Pemberton Bldg., Boston, Mass.		Joseph McCormick, 319 Taunton Ave., E. Providence, R. I.	
				Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount
11	58	Acres	Clearing and grubbing	\$125.00	\$7,250.00	\$100.00	\$5,800.00	\$150.00	\$8,700.00	\$200.00	\$11,600.00	\$275.00	\$15,950.00	\$175.00	\$10,150.00
12A	183,000	c. y.	Earth Excavation	0.60	109,800.00	0.55	100,650.00	0.70	128,100.00	0.70	128,100.00	0.82	150,060.00	0.80	146,400.00
12B	7,000	"	Rock Excavation	2.00	14,000.00	4.00	28,000.00	3.25	22,750.00	2.50	17,500.00	3.00	21,000.00	4.00	28,000.00
13	1,500	"	Excavation for Structures	2.00	3,000.00	2.00	3,000.00	1.50	2,250.00	2.50	3,750.00	2.00	3,000.00	3.00	4,500.00
16	1,500	"	Stone Fill	1.50	2,250.00	1.50	2,250.00	1.50	2,250.00	2.25	3,375.00	2.00	3,000.00	2.25	3,375.00
17A	9,000	"	Common Borrow	0.60	5,400.00	0.70	6,300.00	0.70	6,300.00	0.75	6,750.00	0.82	7,380.00	0.80	7,200.00
20	500	"	Gravel Sub-base	0.90	450.00	1.00	500.00	1.25	625.00	1.35	675.00	1.50	750.00	1.30	650.00
23	20,000	"	Gravel Base Course	1.10	22,000.00	1.30	26,000.00	1.00	20,000.00	1.35	27,000.00	1.25	25,000.00	1.30	26,000.00
24	1,000	"	Stone Base Course	2.50	2,500.00	2.25	2,250.00	2.00	2,000.00	2.25	2,250.00	2.25	2,250.00	2.75	2,750.00
28	9,200	"	Gravel Surface Course	1.10	10,120.00	1.75	16,100.00	1.60	14,720.00	1.50	13,800.00	1.50	13,800.00	1.65	15,180.00
38A	177	"	Class "A" Concrete	25.00	4,425.00	25.00	4,425.00	24.50	4,336.50	25.00	4,425.00	28.00	4,956.00	30.00	5,310.00
38B	750	"	Class "B" Concrete	20.00	15,000.00	23.00	17,250.00	22.50	16,875.00	25.00	18,750.00	23.00	17,250.00	25.00	18,750.00
39	22,500	lbs.	St. Reinf. for Con. Struct.	0.06	1,350.00	0.06	1,350.00	0.06	1,350.00	0.07	1,575.00	0.06	1,350.00	0.05	1,125.00
43B	728	l. f.	15" C. M. P.	0.40	291.20	0.50	364.00	0.40	291.20	0.50	364.00	1.00	728.00	0.60	436.80
43C	2,532	"	18" "	0.40	1,012.80	0.60	1,519.20	0.40	1,012.80	0.75	1,899.00	1.25	3,165.00	0.60	1,519.20
43E	1,448	"	24" "	0.65	941.20	0.70	1,013.60	0.50	724.00	0.90	1,303.20	1.50	2,172.00	1.00	1,448.00
43F	688	"	30" "	1.50	1,032.00	0.80	550.40	0.75	516.00	1.50	1,032.00	1.75	1,204.00	1.25	860.00
43G	376	"	36" "	2.50	940.00	0.90	338.40	0.75	282.00	2.50	940.00	2.25	846.00	1.50	564.00
43H	152	"	42" "	4.00	608.00	1.00	152.00	1.00	152.00	3.00	456.00	5.00	760.00	2.00	304.00
43J	328	"	48" "	7.00	2,296.00	1.10	360.80	1.25	410.00	3.00	984.00	7.00	2,296.00	3.00	984.00
49	500	"	Hand-Laid Riprap	2.50	1,250.00	10.00	5,000.00	1.75	875.00	4.50	2,250.00	4.00	2,000.00	4.00	2,000.00
50	1,000	"	Tile Underdrain	1.50	1,500.00	1.00	1,000.00	1.65	1,650.00	1.50	1,500.00	1.50	1,500.00	2.25	2,250.00
51	500	s. v.	Cobble Stone Gutter	2.00	1,000.00	1.00	500.00	1.75	875.00	2.00	1,000.00	1.50	750.00	1.75	875.00
55	28,932	l. f.	Wire Cable Guard Rail	0.50	14,466.00	0.75	21,699.00	0.55	15,912.60	0.65	18,805.80	0.60	17,359.20	0.55	15,912.60
BRIDGE AT STATI			ON 323+25												
13	210	c. y.	Excavation for Structures	4.00	840.00	4.00	840.00	2.50	525.00	4.00	840.00	2.50	525.00	5.00	1,050.00
28	13	"	Gravel Surface Course	1.10	14.30	1.75	22.75	2.00	26.00	2.00	26.00	1.50	19.50	2.00	26.00
38A	37	"	Class "A" Concrete	25.00	925.00	25.00	925.00	24.50	906.50	30.00	1,110.00	30.00	1,110.00	30.00	1,110.00
38B	142	"	Class "B" Concrete	20.00	2,840.00	23.00	3,266.00	22.50	3,195.00	30.00	4,260.00	23.00	3,266.00	25.00	3,550.00
38D	4	"	Class "D" Concrete	50.00	200.00	30.00	120.00	20.00	80.00	50.00	200.00	80.00	320.00	80.00	320.00
39	7,000	lbs.	St. Reinf. for Con. Struct.	0.07	490.00	0.06	420.00	0.06	420.00	0.07	490.00	0.06	420.00	0.06	420.00
48	100	c. y.	Plain Riprap	1.50	150.00	4.50	450.00	1.50	150.00	3.00	300.00	3.00	300.00	4.00	400.00
BRIDGE AT STATI			ON 390+0												
13	450	c. y.	Excavation for Structures	4.00	1,800.00	4.00	1,800.00	2.50	1,125.00	4.00	1,800.00	2.50	1,125.00	5.00	2,250.00
28	15	"	Gravel Surface Course	1.10	16.50	1.75	26.25	2.00	30.00	2.00	30.00	1.50	22.50	2.00	30.00
38A	444	"	Class "A" Concrete	25.00	11,100.00	25.00	11,100.00	24.50	10,878.00	30.00	13,320.00	28.00	12,432.00	30.00	13,320.00
38D	4	"	Class "D" Concrete	50.00	200.00	30.00	120.00	22.50	90.00	50.00	200.00	80.00	320.00	80.00	320.00
39	40,000	lbs.	St. Reinf. for Con. Struct.	0.07	2,800.00	0.06	2,400.00	0.06	2,400.00	0.07	2,800.00	0.06	2,400.00	0.06	2,400.00
48	115	c. y.	Plain Riprap	1.50	172.50	4.50	517.50	1.50	172.50	3.00	345.00	3.00	345.00	4.00	460.00
TOTALS					\$244,430.50		\$268,379.90		\$272,955.10		\$295,805.00		\$321,131.20		\$322,199.60

A True Copy:
E. L. MERRILL,
Assistant Engineer.

BIDS RECEIVED BY MAINE STATE HIGHWAY COMMISSION—DECEMBER 18, 1929

F. A. Project No. 124-B—"H" Moscow & Caratunk—7.57 Miles Gravel Road

Central Securities Corp., 9 Green Street, Augusta, Maine		James H. Kerr, Rumford, Maine		Callan Const. Co., Bristol, R. I.		Frank Lanza & Sons, 608 Pemberton Bldg., Boston, Mass.		Joseph McCormick, 319 Taunton Ave., E. Providence, R. I.		Angelo Susi & Co., 68 Cedar St., Roslindale, Mass.		D. W. McGrath, Inc., Adams, Massachusetts		J. H. Ferguson Co., 289 Chapman St., Providence, R. I.	
Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount
\$100.00	\$5,800.00	\$150.00	\$8,700.00	\$200.00	\$11,600.00	\$275.00	\$15,950.00	\$175.00	\$10,150.00	\$200.00	\$11,600.00	\$100.00	\$5,800.00	\$160.00	\$9,280.00
0.55	100,650.00	0.70	128,100.00	0.70	128,100.00	0.82	150,060.00	0.80	146,400.00	1.00	183,000.00	1.00	183,000.00	1.15	210,450.00
4.00	28,000.00	3.25	22,750.00	2.50	17,500.00	3.00	21,000.00	4.00	28,000.00	1.00	7,000.00	3.00	21,000.00	3.00	21,000.00
2.00	3,000.00	1.50	2,250.00	2.50	3,750.00	2.00	3,000.00	3.00	4,500.00	1.50	2,250.00	2.00	3,000.00	2.00	3,000.00
1.50	2,250.00	1.50	2,250.00	2.25	3,375.00	2.00	3,000.00	2.25	3,375.00	2.00	3,000.00	2.00	3,000.00	2.50	3,750.00
0.70	6,300.00	0.70	6,300.00	0.75	6,750.00	0.82	7,380.00	0.80	7,200.00	1.00	9,000.00	0.60	5,400.00	1.30	11,700.00
1.00	500.00	1.25	625.00	1.35	675.00	1.50	750.00	1.30	650.00	2.00	1,000.00	1.60	800.00	2.00	1,000.00
1.30	26,000.00	1.00	20,000.00	1.35	27,000.00	1.25	25,000.00	1.30	26,000.00	1.25	25,000.00	1.60	32,000.00	1.80	36,000.00
2.25	2,250.00	2.00	2,000.00	2.25	2,250.00	2.25	2,250.00	2.75	2,750.00	3.00	3,000.00	2.50	2,500.00	2.50	2,500.00
1.75	16,100.00	1.60	14,720.00	1.50	13,800.00	1.50	13,800.00	1.65	15,180.00	1.60	14,720.00	2.00	18,400.00	1.90	17,480.00
25.00	4,425.00	24.50	4,336.50	25.00	4,425.00	28.00	4,956.00	30.00	5,310.00	25.00	4,425.00	30.00	5,310.00	24.00	4,248.00
23.00	17,250.00	22.50	16,875.00	25.00	18,750.00	23.00	17,250.00	25.00	18,750.00	20.00	15,000.00	25.00	18,750.00	22.00	16,500.00
0.06	1,350.00	0.06	1,350.00	0.07	1,575.00	0.06	1,350.00	0.05	1,125.00	0.10	2,250.00	0.065	1,462.50	0.06	1,350.00
0.50	364.00	0.40	291.20	0.50	364.00	1.00	728.00	0.60	436.80	0.60	436.80	1.25	910.00	1.00	728.00
0.60	1,519.20	0.40	1,012.80	0.75	1,899.00	1.25	3,165.00	0.60	1,519.20	0.70	1,772.40	1.65	4,177.80	1.30	3,291.60
0.70	1,013.60	0.50	724.00	0.90	1,303.20	1.50	2,172.00	1.00	1,448.00	1.00	1,448.00	2.10	3,040.80	1.80	2,606.40
0.80	550.40	0.75	516.00	1.50	1,032.00	1.75	1,204.00	1.25	860.00	1.75	1,204.00	3.00	2,064.00	2.20	1,513.60
0.90	338.40	0.75	282.00	2.50	940.00	2.25	846.00	1.50	564.00	2.00	752.00	3.50	1,316.00	2.50	940.00
1.00	152.00	1.00	456.00	3.00	456.00	5.00	760.00	2.00	304.00	2.50	380.00	4.00	608.00	3.00	456.00
1.10	360.80	1.25	410.00	3.00	984.00	7.00	2,296.00	3.00	984.00	3.00	984.00	4.50	1,476.00	4.00	1,312.00
10.00	5,000.00	1.75	875.00	4.50	2,250.00	4.00	2,000.00	4.00	2,000.00	4.00	2,000.00	3.00	1,500.00	6.75	3,375.00
1.00	1,000.00	1.65	1,650.00	1.50	1,500.00	1.50	1,500.00	2.25	2,250.00	0.50	500.00	1.00	1,000.00	1.00	1,000.00
1.00	500.00	1.75	875.00	2.00	1,000.00	1.50	750.00	1.75	875.00	2.00	1,000.00	1.50	750.00	2.00	1,000.00
0.75	21,699.00	0.55	15,912.60	0.65	18,805.80	0.60	17,359.20	0.55	15,912.60	0.70	20,252.40	0.60	17,359.20	0.70	20,252.40
4.00	840.00	2.50	525.00	4.00	840.00	2.50	525.00	5.00	1,050.00	5.00	1,050.00	2.00	420.00	3.00	630.00
1.75	22.75	2.00	26.00	2.00	26.00	1.50	19.50	2.00	26.00	2.00	26.00	2.00	26.00	1.90	24.70
25.00	925.00	24.50	906.50	30.00	1,110.00	30.00	1,110.00	30.00	1,110.00	25.00	925.00	30.00	1,110.00	24.00	888.00
23.00	3,266.00	22.50	3,195.00	30.00	4,260.00	23.00	3,266.00	25.00	3,550.00	20.00	2,840.00	25.00	3,550.00	22.00	3,124.00
30.00	120.00	20.00	80.00	50.00	200.00	80.00	320.00	80.00	320.00	60.00	240.00	100.00	400.00	20.00	80.00
0.06	420.00	0.06	420.00	0.07	490.00	0.06	420.00	0.06	420.00	0.10	700.00	0.065	455.00	0.06	420.00
4.50	450.00	1.50	150.00	3.00	300.00	3.00	300.00	4.00	400.00	4.00	400.00	3.00	300.00	4.50	450.00
4.00	1,800.00	2.50	1,125.00	4.00	1,800.00	2.50	1,125.00	5.00	2,250.00	5.00	2,250.00	2.00	900.00	3.00	1,350.00
1.75	26.25	2.00	30.00	2.00	30.00	1.50	22.50	2.00	30.00	2.00	30.00	2.00	30.00	2.00	30.00
25.00	11,100.00	24.50	10,878.00	30.00	13,320.00	28.00	12,432.00	30.00	13,320.00	25.00	11,100.00	30.00	13,320.00	24.00	10,656.00
30.00	120.00	22.50	90.00	50.00	200.00	80.00	320.00	80.00	320.00	60.00	240.00	100.00	400.00	20.00	80.00
0.06	2,400.00	0.06	2,400.00	0.07	2,800.00	0.06	2,400.00	0.06	2,400.00	0.10	4,000.00	0.065	2,600.00	0.06	2,400.00
4.50	517.50	1.50	172.50	3.00	345.00	3.00	345.00	4.00	460.00	4.00	460.00	3.00	345.00	4.50	517.50
\$268,379.90		\$272,955.10		\$295,805.00		\$321,131.20		\$322,199.60		\$336,235.60		\$358,480.30		\$395,383.20	

A True Copy:
E. L. MERRILL,
Assistant Engineer.

Attest:
ELOISE LAWRENCE,
Justice of the Peace.

PROJECT 124-B

The detailed estimate of cost of Project 124-B, including two bridges, was as follows:

Date of estimate December 10, 1929.

Quantity	Unit	Description	Unit Price	Amount
58	Acres	Clearing and grubbing	\$100.00	\$ 5,800.00
183000	Cu. Yds.	Earth excavation	.55	100,650.00
7000	Cu. Yds.	Rock excavation	2.50	17,500.00
1500	Cu. Yds.	Excavation for structures	.75	1,125.00
9000	Cu. Yds.	Common borrow	.55	4,950.00
1500	Cu. Yds.	Stone fill	1.00	1,500.00
500	Cu. Yds.	Grave sub-base	1.20	600.00
20000	Cu. Yds.	Gravel base course	1.20	24,000.00
1000	Cu. Yds.	Stone base course	2.50	2,500.00
9200	Cu. Yds.	Gravel surface course	1.30	11,960.00
177	Cu. Yds.	Class A concrete	22.00	3,894.00
750	Cu. Yds.	Class B concrete	18.00	13,500.00
22500	Lbs.	Steel for reinforcement	.07	1,575.00
728	Lin. Ft.	Laying 15" metal pipe	.25	182.00
2532	Lin. Ft.	Laying 18" metal pipe	.30	759.60
1448	Lin. Ft.	Laying 24" metal pipe	.35	506.80
688	Lin. Ft.	Laying 30" metal pipe	.40	275.20
376	Lin. Ft.	Laying 36" metal pipe	.50	188.00
152	Lin. Ft.	Laying 42" metal pipe	.70	106.40
328	Lin. Ft.	Laying 48" metal pipe	1.00	328.00
500	Cu. Yds.	Hand-laid rip-rap	2.00	1,000.00
1000	Lin. Ft.	Tile underdrain	1.25	1,250.00
500	Sq. Yds.	Cobble stone gutter	1.50	750.00
28932	Lin. Ft.	Wire cable guard rail	.60	17,359.20
Sub-total				\$212,259.20

Bridge at Station 390 Plus 00

Quantity	Unit	Description	Unit Price	Amount
450	Cu. Yds.	Excavation for structures	\$5.00	\$ 2,250.00
15	Cu. Yds.	Gravel Surface Course	1.30	19.50
444	Cu. Yds.	Class A Concrete	30.00	13,320.00
4	Cu. Yds.	Class D Concrete	75.00	300.00
40000	Lbs.	Reinforcing Steel	0.07	2,800.00
115	Cu. Yds.	Plain Rip Rap	1.50	172.50
Sub-total				\$18,862.00

Bridge at Station 323 Plus 25

Quantity	Unit	Description	Unit Price	Amount
210	Cu. Yds.	Excavation for structures	\$5.00	\$ 1,050.00
13	Cu. Yds.	Gravel Surface Course	1.30	16.90
37	Cu. Yds.	Class A Concrete	25.00	925.00
142	Cu. Yds.	Class B Concrete	23.00	3,266.00
4	Cu. Yds.	Class D Concrete	75.00	300.00
7000	Lbs.	Reinforcing Steel	0.07	490.00
100	Cu. Yds.	Plain Rip Rap	1.50	150.00
Sub-total				\$6,197.90
Total of Contract Items				
(To be compared with Contractor's Bid)				\$237,319.10

Estimate of Materials Furnished by State

Quantity	Unit	Description	Unit Price	Amount
728	Lin. Ft.	15" Metal Pipe	\$1.40	\$1,019.20
2532	Lin. Ft.	18" Metal Pipe	1.70	4,304.40
1448	Lin. Ft.	24" Metal Pipe	2.75	3,982.00
688	Lin. Ft.	30" Metal Pipe	3.40	2,339.20
376	Lin. Ft.	36" Metal Pipe	5.40	2,030.40
152	Lin. Ft.	42" Metal Pipe	6.00	912.00
328	Lin. Ft.	48" Metal Pipe	7.50	2,460.00
200	Gals.	Creosote Oil for Posts	0.67	134.00
Material Sub-total				\$ 17,181.20
Engineering and Contingencies				\$25,450.03
Grand Total				\$279,950.33

Proposals were received by the Commission on December 18, 1929 for the construction of Federal Aid Project 124-B in Moscow-Caratunk, based on the above estimate of quantities, with the following results:

1. W. H. Hinman, Inc., Medway, Mass.	\$244,430.50
2. Central Securities Corporation, Augusta	268,379.90
3. James H. Kerr, Rumford	272,955.10
4. Callan Construction Corp., Bristol, R. I.	295,805.00
5. Frank Lanza & Sons, Boston	321,131.20
6. Joseph McCormick, East Providence, R. I.	322,199.60
7. Angelo Susi & Co., Roslindale, Mass.	336,235.50
8. D. S. McGrath, Inc., Adams, Mass.	358,480.30
9. J. H. Ferguson Co., Providence, R. I.	395,383.20
Engineers' Contract Estimate	\$237,319.10

Contract for Project was awarded to W. H. Hinman, Inc., on December 18, 1929.

			Central Securities Corp., 9 Green Street, Augusta, Maine	James H. Kerr, Rumford, Maine	Atwood-Thomas Const. Co. Middleboro, Mass.	Hagan-Thibodeau Const. Co., 45 Waterman Avenue, Eden Park, R. I.	Wyman Au					
Item	Quan.	Unit	Description	Price	Amount	Price	Amount	Price	Amount	Price		
11	33.25	Acres	Clearing and grubbing	\$102.00	\$3,391.50	\$175.00	\$5,818.75	\$150.00	\$4,987.50	\$200.00	\$6,650.00	\$300.00
12A	50,512	c. y.	Earth Excavation	1.03	52,027.36	0.75	37,884.00	0.75	37,884.00	0.80	40,409.60	0.90
12B	15,368	"	Rock Excavation	1.03	15,829.04	2.65	40,725.20	2.25	34,578.00	3.00	46,104.00	3.00
13	1,560	"	Excavation for Structures	0.62	967.20	1.50	2,340.00	1.50	2,340.00	1.00	1,560.00	1.50
17A	34,310	"	Common Borrow	0.48	16,468.80	0.70	24,017.00	0.90	30,879.00	0.80	27,448.00	0.80
23	10,331	"	Gravel Base Course	1.14	11,777.34	1.40	14,463.40	1.50	15,496.50	1.25	12,913.75	1.40
28	4,956	"	Gravel Surface Course	1.30	6,442.80	1.70	8,425.20	2.50	12,390.00	2.25	11,151.00	1.60
38A	145	"	Class "A" Concrete	21.00	3,045.00	25.00	3,625.00	20.00	2,900.00	30.00	4,350.00	21.00
38B	695	"	Class "B" Concrete	10.00	6,950.00	23.00	15,985.00	18.00	12,510.00	25.00	17,375.00	20.00
39	23,150	lbs.	St. Reinf. for Con. Structures	0.04	926.00	0.05	1,157.50	0.06	1,389.00	0.07	1,620.50	0.07
43B	464	l. f.	15" Corr. Metal Pipe	0.50	232.00	0.60	278.40	0.50	232.00	1.00	464.00	0.15
43C	888	"	18" " " "	0.75	666.00	0.60	532.80	0.75	666.00	1.00	888.00	0.20
43E	642	"	24" " " "	1.00	642.00	0.70	449.40	1.00	642.00	2.00	1,284.00	0.30
43F	804	"	30" " " "	1.25	1,005.00	0.75	603.00	1.25	1,005.00	2.00	1,608.00	0.30
43G	210	"	36" " " "	1.80	378.00	1.00	210.00	2.00	420.00	4.00	840.00	0.30
43H	36	"	42" " " "	2.00	72.00	1.50	54.00	4.00	144.00	6.00	216.00	0.40
43J	78	"	48" " " "	3.00	234.00	2.00	156.00	4.00	312.00	6.00	468.00	0.50
55	15,360	"	Wire Cable Guard Rail	0.65	9,984.00	0.55	8,448.00	0.60	9,216.00	0.60	9,216.00	0.75
TOTALS					\$131,038.04		\$165,172.65		\$167,991.00		\$184,565.85	

BIDS RECEIVED BY MAINE STATE HIGHWAY COMMISSION—JULY 17, 1929

F. A. Project No. 124-A—"H" Moscow—4.22 Miles Gravel Road

Deau Const. Co., man Avenue, Park, R. I.		Wyman & Simpson, Inc., Augusta, Maine		Manzie I. Rogers, 43 Birch St., Bangor, Maine		Naugler Bros., 117 Main Street, Brunswick, Maine		Kennebec Const. Corp., Waterville, Maine		Angelo Susi & Co., 68 Cedar Street, Roslindale, Mass.		Frank Lanza & Sons, 608 Pemberton Bldg., Boston, Massachusetts	
Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price
\$6,650.00	\$300.00	\$9,975.00	\$150.00	\$4,987.50	\$ 95.00	\$3,158.75	\$185.00	\$6,151.25	\$300.00	\$9,975.00	\$300.00	\$9,975.00	\$300.00
40,409.60	0.90	45,460.80	0.85	42,935.20	0.80	40,409.60	1.00	50,512.00	1.56	78,798.72	1.60	80,819.20	1.60
46,104.00	3.00	46,104.00	3.50	53,788.00	3.25	49,946.00	3.10	47,640.80	1.56	23,974.08	1.60	24,588.80	1.60
1,560.00	1.50	2,340.00	1.00	1,560.00	1.40	2,184.00	1.85	2,886.00	2.00	3,120.00	2.00	3,120.00	2.00
27,448.00	0.80	27,448.00	0.90	30,879.00	0.90	30,879.00	1.00	34,310.00	0.85	29,163.50	1.00	34,310.00	1.00
12,913.75	1.40	14,463.40	1.50	15,496.50	2.15	22,211.65	1.75	18,079.25	1.30	13,430.30	1.50	15,496.50	1.50
11,151.00	1.60	7,929.60	1.50	7,434.00	2.25	11,151.00	1.75	8,673.00	1.50	7,434.00	1.50	7,434.00	1.50
4,350.00	21.00	3,045.00	15.00	2,175.00	23.00	3,335.00	31.00	4,495.00	30.00	4,350.00	30.00	4,350.00	30.00
17,375.00	20.00	13,900.00	15.00	10,425.00	21.00	14,595.00	20.00	13,900.00	28.00	19,460.00	20.00	13,900.00	20.00
1,620.50	0.07	1,620.50	0.05	1,157.50	0.08	1,852.00	0.07	1,620.50	0.10	2,315.00	0.08	1,852.00	0.08
464.00	0.15	69.60	0.75	348.00	0.30	139.20	0.60	278.40	1.00	464.00	0.75	348.00	0.75
888.00	0.20	177.60	0.75	666.00	0.40	355.20	0.60	532.80	1.00	888.00	0.75	666.00	0.75
1,284.00	0.30	192.60	0.90	577.80	0.50	321.00	1.00	642.00	1.25	802.50	1.00	642.00	1.00
1,608.00	0.30	241.20	0.90	723.60	0.60	482.40	1.00	804.00	1.50	1,206.00	1.50	1,206.00	1.50
840.00	0.30	63.00	1.00	210.00	0.60	126.00	1.80	378.00	2.00	420.00	2.00	420.00	2.00
216.00	0.40	14.40	1.10	39.60	0.70	25.20	1.80	64.80	3.00	108.00	4.00	144.00	4.00
468.00	0.50	39.00	1.20	93.60	0.80	62.40	1.85	144.30	3.50	273.00	6.00	468.00	6.00
9,216.00	0.75	11,520.00	1.00	15,360.00	0.70	10,752.00	0.75	11,520.00	0.70	10,752.00	0.60	9,216.00	0.60
\$184,565.85		\$184,603.70		\$188,856.30		\$191,985.40		\$202,632.10		\$206,934.10		\$208,955.50	

A True Copy

Frank Lanza & Sons, 608 Pemberton Bldg., Boston, Massachusetts		W. H. Hinman, Inc., Medway, Massachusetts		D. M. Susi, Pittsfield, Maine		Amos D. Bridge's Sons, Inc., 7 School Street, Hazardville, Conn.		Jos. McCormick, 319 Taunton Ave., E. Providence, R. I.		Sawyer & Carlisle Const. Co., Inc., Ellsworth, Maine	
Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount
\$300.00	\$9,975.00	\$250.00	\$8,312.50	\$550.00	\$18,287.50	\$250.00	\$8,312.50	\$235.00	\$7,813.75	\$3.00	\$99.75
1.60	80,819.20	1.00	50,512.00	1.00	50,512.00	1.40	70,716.80	1.10	55,563.20	1.50	75,768.00
1.60	24,588.80	3.25	49,946.00	2.50	38,420.00	5.00	76,840.00	6.00	92,208.00	6.00	92,208.00
2.00	3,120.00	2.00	3,120.00	2.00	3,120.00	2.00	3,120.00	3.00	4,680.00	2.00	3,120.00
1.00	34,310.00	1.10	37,741.00	1.00	34,310.00	1.00	34,310.00	1.00	34,310.00	1.25	42,887.50
1.50	15,496.50	1.65	17,046.15	2.00	20,662.00	2.25	23,244.75	2.50	25,827.50	1.50	15,496.50
1.50	7,434.00	2.00	9,912.00	2.25	11,151.00	2.75	13,629.00	2.70	13,381.20	2.50	12,390.00
30.00	4,350.00	30.00	4,350.00	30.00	4,350.00	40.00	5,800.00	35.00	5,075.00	40.00	5,800.00
20.00	13,900.00	27.50	19,112.50	25.00	17,375.00	30.00	20,850.00	30.00	20,850.00	30.00	20,850.00
0.08	1,852.00	0.08	1,852.00	0.07	1,620.50	0.10	2,315.00	0.10	2,315.00	0.10	2,315.00
0.75	348.00	0.40	185.60	0.75	348.00	1.00	464.00	1.00	464.00	0.50	232.00
0.75	666.00	0.50	444.00	0.85	754.80	1.50	1,332.00	1.00	888.00	0.50	444.00
1.00	642.00	0.80	513.60	1.25	802.50	1.50	963.00	2.00	1,284.00	0.50	321.00
1.50	1,206.00	1.25	1,005.00	1.40	1,125.60	2.00	1,608.00	2.00	1,608.00	1.00	804.00
2.00	420.00	2.00	420.00	1.50	315.00	2.00	420.00	2.00	420.00	1.00	210.00
4.00	144.00	3.00	108.00	1.60	57.60	3.00	108.00	3.00	108.00	1.00	36.00
6.00	468.00	4.50	351.00	1.80	140.40	3.00	234.00	3.00	234.00	1.00	78.00
0.60	9,216.00	0.55	8,448.00	1.50	23,040.00	0.70	10,752.00	0.65	9,984.00	1.00	15,360.00
	\$208,955.50		\$213,379.35		\$226,391.90		\$275,019.05		\$277,013.65		\$288,419.75

A True Copy:

E. L. MERRILL,
Assistant Engineer.

Attest:

ELOISE LAWRENCE,
Justice of the Peace.

A statement of bids in detail is attached hereto.

The final cost of the construction of both projects is based on the quantity of work actually performed under each item at the contract unit price. The reason for the cost of these projects is the large amount of work which it was necessary to do; principally in connection with drainage and grading. A comparison of the competitive bids shows the low unit prices which were received.

2. WHO RECEIVED THE MONEY AND FOR WHAT REASON?

PROJECT 124-A

Costs Construction Engineering		
A. A. Brown, Salary	\$909.00	
Miscellaneous Engineering Expense	4.20	
		\$913.20
S. F. Sawyer, Salary	\$360.00	
Auto Expense	157.03	
Meals	3.90	
Railroad Fare	2.69	
Notary Fee	0.25	
		523.87
C. L. Billings, Salary	\$672.00	
Board and Room	3.25	
Railroad Fare	2.69	
Notary Fee	0.25	
		678.19
Geo. W. Keith, Salary	\$1,200.00	
Auto Expense	17.77	
Meals	5.70	
Railroad Fare	6.60	
Augusta House	1.25	
Hotel Cahill	22.00	
E. E. Folsom (Hardware)	0.40	
Express	7.26	
Baker Studio	5.25	
New England Telephone and Telegraph Co.	13.55	
Moose Head Telephone Co.	7.25	
Elmwood Hotel	5.00	
C. E. Keene (Room)	20.00	
Preble and Robinson	0.50	
Notary Fee	0.25	
		1,312.78

Donald Dillon, Salary	\$192.00	
Meals	0.90	
Railroad Fare	4.60	
Augusta House	1.25	
	<hr/>	\$198.75
Gilbert Patterson, Salary	\$120.00	
Board and Room	3.00	
Railroad Fares	2.20	
	<hr/>	125.20
Paul Giddings, Salary		144.00
H. Bragdon, Salary		5.80
V. B. Everett, Salary		30.50
Edgar Cyr, Salary	\$145.00	
Auto Expense	57.15	
Meals	0.75	
	<hr/>	202.90
T. L. Martin, Salary	\$300.00	
Auto Expense	72.85	
Meals	0.75	
Express	4.12	
Preble and Robinson	0.60	
S. J. Whitney (Hardware)	1.15	
	<hr/>	379.47
Kenneth Brown, Salary	\$696.00	
Auto Expense	0.50	
Meals	2.00	
Railroad Fare	2.99	
Notary Fee	0.12	
Old Point Garage	1.90	
	<hr/>	703.51
E. A. Ward, Salary		3.24
Clifford Brown, Salary		45.00
E. A. McLean, Salary		50.00
D. W. Bagley, Salary		272.00
L. L. Alden, Salary	\$250.00	
Auto Expense	117.98	
	<hr/>	367.98
D. T. Flint, Salary	\$30.00	
Auto Expense	29.64	
	<hr/>	59.64
Robert C. Furber, Salary		104.00
Jerry Miele, Salary		69.50
Robert Larry, Salary		42.00
State Treasurer, Auto Expense		640.00
Howes Garage, Auto Expense		2.00
G. W. Folsom, Auto Expense		23.50
Bangor Daily News, Advertising		1.19
Courier Gazette, Advertising		0.74
Independent Reporter, Advertising		2.55

New England Road Builders' Association, Advertising	\$ 4.63
Sterns Bedding Co., Camp Equipment	48.88
Skinner, Sherman and Easelin, Testing Materials	45.40
Hunnewell's Restaurant, Meals	\$570.29
Room Rent	90.00
	<hr/> 660.29
C. E. Keene, Room Rent	162.00
E. J. Andrews, Room Rent	352.51
Railroad Express Co., Transportation of Equipment	8.16
Bingham Hotel, Board and Room	1,061.32
Maine Central Railroad, Transportation of Equipment	5.77
V. B. Cahill, Moose Head Telephone Company	25.65
E. E. Folsom, Room Rent	29.00
University of Maine Laboratory, Testing Materials	25.84
Sanders Engineering Co., Telephone	3.10
J. G. Donahue, Lawrence House	\$8.00
Augusta Y. M. C. A.	4.00
	<hr/> 12.00
Florence Owens, Room Rent	20.00
Thompson's Cafe, Meals	20.00
C. M. Ellis, Board Allowance	8.00
A. P. Tucker, Salary	72.00
	<hr/>
Total—Engineering	\$9,466.06

Materials Furnished by State

New England Metal Culvert Co., Culvert Pipe	\$5,168.40
Berger Manufacturing Co., Culvert Pipe	4,298.70
Northwestern Company, Creosote for Guard Rail Posts	344.40
Paint Transfer, Paint for Guard Rail Posts	77.52
G. L. Mosher, Labor—Painting Guard Rail Posts	322.50
	<hr/>
	\$10,211.52

Payments on Contract Central Securities Corporation

Description	Quantity	Unit Price	Total
Clearing and Grubbing	33.25 acres	\$102.00	\$ 3,391.50
Earth Excavation	77,228.7 cu. yds.	1.03	79,545.56
Excavation for Structures	1,122.4 cu. yds.	0.62	695.89
Common Borrow	49,270.8 cu. yds.	0.48	23,649.98
Gravel Base Course	10,878.3 cu. yds.	1.14	12,401.26
Gravel Surface Course	4,946.2 cu. yds.	1.30	6,430.06
Class "A" Concrete	109.69 cu. yds.	21.00	2,303.49
Class "B" Concrete	522.76 cu. yds.	10.00	5,227.60
Steel Reinforcement	1,900 lbs.	0.04	760.00

Description	Quantity	Unit	Price	Total
Laying 15" Corrugated Metal Pipe	370	lin. ft.	0.50	185.00
Laying 18" Corrugated Metal Pipe	964	lin. ft.	0.75	723.00
Laying 24" Corrugated Metal Pipe	654	lin. ft.	1.00	654.00
Laying 30" Corrugated Metal Pipe	764	lin. ft.	1.25	955.00
Laying 36" Corrugated Metal Pipe	214	lin. ft.	1.80	385.20
Laying 42" Corrugated Metal Pipe	36	lin. ft.	2.00	72.00
Laying 48" Corrugated Metal Pipe	78	lin. ft.	3.00	234.00
Wire Cable Guard Rail	17,093	lin. ft.	0.65	11,110.45

Extra Work

Stone Fill	691.5	cu. yds.	0.72	497.88
Stone Base	1,306	cu. yds.	0.92	1,201.52
Allowance for over-run	39	days	30.00	1,170.00
				<hr/>
				\$151,593.39
Time charge, deducted	176	days	30.00	5,280.00
				<hr/>
			Total	\$146,313.39

SUMMARY AND COSTS**Project 124-A**

Engineering	\$ 9,466.06
Materials furnished by State	10,211.52
Payments on Contract	146,313.39
	<hr/>
Total	\$165,990.97

PROJECT 124-B**Costs****Preliminary Engineering**

Paul Giddings, Salary	\$ 8.00
T. L. Martin, Salary	16.66
Clifford Brown, Salary	382.50
E. A. McLean, Salary	59.00
H. L. Doten, Salary	\$43.00
Auto Hire	2.00
	<hr/>
	45.00

V. B. Everett, Salary	\$35.50
H. G. Young, Salary	3.00
G. L. Johnson, Salary	10.00
W. B. Horsman, Salary	26.66
C. S. Allen, Salary	103.34
P. E. Woods, Salary	63.75
Star Herald Publishing Co.	1.25
State Garage, Auto Tools	2.00

Total Preliminary Engineering \$756.66

Construction Engineering

A. A. Brown, Salary		\$660.00
D. W. Bagley, Salary		24.00
Kenneth Brown, Salary	\$1,062.00	
Notary	0.25	
Room (C. E. Keene)	75.00	
Red Flannel (Mark Savage)	.50	
	<hr/>	1,137.75
Geo. W. Keith, Salary	\$475.00	
Meals	6.55	
Rooms	9.00	
Express	3.34	
New England Telephone and Telegraph Co.	12.45	
	<hr/>	506.34
Austin George, Salary		188.00
State Treasurer, Auto Rental		1,993.00
State Highway Commission, Transit Rental		150.00
New England Road Builders' Association, Advertising		8.25
Chas. L. Billings, Salary		1,112.00
E. J. Andrews, Room Rent		320.70
E. E. Folsom, Room Rent		50.00
Taylor Bros. and Hill, Room Rent to Keene		30.00
C. B. Reynolds, Room Rent		137.76
Jerry Miele, Salary		703.00
G. L. Johnson, Salary	\$1,043.33	
Auto Expense	15.10	
Board and Room Allowance	156.00	
Meals	2.90	
Railroad Fare	2.39	
Express	23.31	
Testing Materials	0.25	
	<hr/>	1,243.28
J. B. Hudson, Room Rent		28.50
Skinner, Sherman and Esselin, Testing Materials		133.72
Bingham Hotel, Board and Room		2,564.84
Robert C. Furber, Salary	\$964.00	
Auto Expense	1.00	
Beaver Board	1.28	

Meals	\$5.15	
Railroad Fares	4.76	
Notary Fee	0.25	
Express	4.92	
C. B. Reynolds (Room Rent)	175.00	
	<hr/>	1,156.36
C. M. Ellis, Salary	\$683.00	
Auto Expense	1.00	
Board Allowance	154.00	
Railroad Fares	6.72	
Notary Fee	0.25	
	<hr/>	844.97
J. S. Dickens, Salary	\$351.00	
Auto Expense	1.00	
Railroad Fare	1.70	
Notary Fee	0.25	
	<hr/>	353.95
Howes Garage, Auto Expense		1.40
Hunnewell's Restaurant, Board and Room		388.97
E. S. Welch, Salary	369.83	
Meals	0.85	
Railroad Fare	2.39	
	<hr/>	373.07
L. L. Alden, Salary	\$1,615.00	
Auto Expense	517.16	
Express	0.84	
New England Telephone and Telegraph	1.35	
G. M. Ellis (Auto Hire)	5.80	
R. C. Furber (Auto Hire)	10.70	
	<hr/>	2,150.85
D. T. Flint, Salary	\$478.00	
Auto Expense	16.05	
Meals	0.75	
Railroad Fare	2.39	
	<hr/>	497.19
J. H. Reynolds, Frost Pin		1.00
Conrad Vigue, Meals for Jerry Miele		10.08
Thompson's Cafe, Meals	\$56.55	
Rooms	288.43	
	<hr/>	344.98
J. S. Whitney, Nails, Crayon, etc.		4.40
Henry Doten, Salary		14.00
V. C. LaCase, Salary		77.00
Preble & Robinson, Meals		29.52
C. E. Keene, Room Rent		95.00
Chas. S. Allen, Salary		33.33
C. D. Barran, Room Rent		10.00
G. W. Folsom, Salary	\$112.00	
Auto Expense	19.90	
	<hr/>	131.90

Ralph Brown, Salary	\$237.00	
Notary Fee	0.25	
C. E. Keene (Room Rent)	25.00	
	<hr/>	262.25
F. E. Withee, Salary		53.00
Robert Larry, Salary		138.00
J. A. Jordan, Room Rent		18.00
A. P. Tucker, Salary	\$137.00	
Railroad Fare	4.28	
	<hr/>	141.28
Florence Owen, Room Rent		42.50
Mrs. A. J. Allen, Room Rent		2.00
W. E. Southard, Salary		150.00
University of Maine Laboratory, Testing Materials		195.00
Labor Transfer, State Garage		92.62
		<hr/>
Total—Construction Engineering		\$18,603.76
(Engineering on Bridges \$ 1,607.20)		
(Engineering on Highways \$17,753.22)		

Materials Furnished by State

New England Metal Culvert Company,		
Culvert Pipe	\$17,256.14	
Credit by Culvert Pipe Sold	1,076.92	
	<hr/>	\$16,179.22

Payments on Contract—W. H. Hinman, Inc. Roadway

Description	Quantity	Unit Price	Total
Clearing and Grubbing	62.2 Acres	\$125.00	\$7,775.00
Earth Excavation	187,785 cu. yds.	0.60	112,671.00
Rock Excavation	11,431 cu. yds.	2.00	22,862.00
Excavation for Structures	3,698 cu. yds.	2.00	7,396.00
Common Borrow	36,050 cu. yds.	0.60	21,630.00
Gravel Base	20,481 cu. yds.	1.10	22,529.10
Gravel Surface	9,061 cu. yds.	1.10	9,967.10
Class "A" Concrete	183.2 cu. yds.	25.00	4,580.00
Class "B" Concrete	1,194.59 cu. yds.	20.00	23,891.80
Reinforcement for Structures	22,446 lbs.	0.06	1,346.76
15" Corrugated Metal Pipe			
Culverts	664 lin. ft.	0.40	265.60
18" Corrugated Metal Pipe			
Culverts	2,058 lin. ft.	0.40	823.20
24" Corrugated Metal Pipe			
Culverts	1,520 lin. ft.	0.65	988.00
30" Corrugated Metal Pipe			
Culverts	776 lin. ft.	1.50	1,164.00

Description	Quantity	Unit Price	Total
36" Corrugated Metal Pipe			
Culverts	334 lin. ft.	2.50	835.00
42" Corrugated Metal Pipe			
Culverts	152 lin. ft.	4.00	608.00
48" Corrugated Metal Pipe			
Culverts	308 lin. ft.	7.00	2,156.00
Hand Laid Riprap	950 cu. yds.	2.50	2,375.00
Tile Underdrain	907 lin. ft.	1.50	1,360.50
Guard Rail	26,541 lin. ft.	0.50	13,270.50
Extra Guard Rail Anchors	20 each	15.00	300.00
Extra Work			885.38
Allowance for Over-runs	73 days	30.00	2,190.00
			<hr/>
			\$261,869.94
Time charge deducted	116 days	30.00	3,480.00
			<hr/>
			Sub-total—Roadway \$258,389.94

Bridges

Excavation for Structures	887.3 cu. yds.	\$4.00	\$3,549.20
Gravel Surface	41 cu. yds.	1.10	45.10
Class "A" Concrete	487.4 cu. yds.	25.00	12,185.00
Class "B" Concrete	190.5 cu. yds.	20.00	3,810.00
Class "D" Concrete	4 cu. yds.	50.00	200.00
Reinforcement	48,500 lbs.	0.07	3,395.00
Extra Work			3,358.15
Allowance for Over-runs	10 days	30.00	300.00
			<hr/>
			\$26,842.45
Time charge deducted	12 days	30.00	360.00
			<hr/>
			Sub-total—Bridge \$26,482.45
			<hr/>
			Total \$284,872.39

SUMMARY AND COSTS

Project 124-B

Preliminary Engineering	\$ 756.66	
Construction Engineering	18,603.76	
	<hr/>	
Total Engineering		\$ 19,360.42
Material furnished by State		16,179.22
Payments on Contract		284,872.39
		<hr/>
Total		\$320,412.03

3. WAS ANY AGREEMENT MADE WITH THE CENTRAL MAINE POWER COMPANY AS TO THEIR SHARE OF THE COST OF THE ROAD BEFORE WORK WAS COMMENCED?

Agreements were made previous to beginning work, a verbal agreement in the case of Federal Aid Project 124-A and a written agreement in the case of Federal Aid Project 124-B.

On the basis of a cost of \$30,000 per mile the cost was proportioned as follows, as to road construction on both projects:

State	\$ 7,500 per mile
Federal Aid	15,000 per mile
Central Maine Power Co.	7,500 per mile

The Central Maine Power Company agreed to pay in addition all cost over \$30,000 per mile which, with the payment of \$7,500 per mile provides for the Central Maine Power Company paying all costs over \$22,500 per mile.

In the case of Federal Aid Project 124-A no special provision was made for the construction of the one bridge required and the cost of this bridge was included in the cost of road construction.

For the two bridges on Federal Aid Project 124-B it was agreed that the cost of these bridges should be proportioned as follows:

Federal Aid	50 per cent
Central Maine Power Company	25 per cent
State	25 per cent

Before work was begun the Central Maine Power Company paid to the State \$31,500 on account for Federal Aid Project 124-A and \$56,812.50 on account for Federal Aid Project 124-B.

4. WHO MAKES THE FINAL SETTLEMENT WITH THE CENTRAL MAINE POWER COMPANY AND HAS THE BASIS OF THE SETTLEMENT BEEN AGREED UPON AT THIS TIME? IF SO, WHAT IS THE AGREEMENT?

The State Highway Commission makes final settlement with the Central Maine Power Company.

The basis of settlement was agreed to before work was be-

gun, as previously stated, and the agreement as to proportional shares of the cost has been stated.

Application of the agreement to the actual cost is as follows :

PROJECT 124-A

Cost	\$165,990.97
State and Federal Funds—4.215 miles at \$22,500	94,837.50
	<hr/>
Central Maine Power Company	\$71,153.47

PROJECT 124-B

Engineering on Highways	\$17,753.22	
Highway Construction	274,569.16	
	<hr/>	
Cost of Highway Construction		\$292,322.38
Engineering on Bridges	\$ 1,607.20	
Bridge Construction	26,482.45	
	<hr/>	
Cost of Bridge Construction		28,089.65
		<hr/>
Cost of Highways and Bridges		\$320,412.03
State and Federal Funds on Highways		
7.587 miles at \$22,500	\$170,707.50	
State and Federal Funds on Bridges		
75% of \$28,089.65	\$21,067.24	
	<hr/>	
Total State and Federal Funds		\$191,774.74
		<hr/>
Central Maine Power Company		\$128,637.29
Central Maine Power Company		
Project 124-A	Total	\$71,153.47
Paid		31,500.00
		<hr/>
Due		\$39,653.47
Project 124-B	Total	\$128,637.29
Paid		56,812.50
		<hr/>
		71,824.79
		<hr/>
Total due from Central Maine Power Co.		\$111,478.26