

ITEM
MANAGER'S REPORT NO. 27
COUNCIL MEETING 49 88/07/25

RE: CONTRACT NO. 8813
CARIBOO ROAD UPGRADING - PHASE I

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Finance be adopted.

* * * * *

TO: MUNICIPAL MANAGER 1988 July 20
FROM: DIRECTOR FINANCE
RE: CONTRACT NO. 8813
CARIBOO ROAD UPGRADING - PHASE I

RECOMMENDATION

1. THAT a contract be awarded to the lowest bidder, Cicuto & Sons Contractors Ltd., to provide the necessary construction services for the upgrading of Cariboo Road as per Contract No. 8813 for a total cost of \$1,411,422.00, with final payment based on actual quantities and unit prices tendered.

REPORT

Tenders for this project were received up to 3:00 p.m. local time Thursday, 1988 July 14.

The work of this contract consists of the supply and installation of materials, including all labour, equipment, plant and tools related to the construction of roads, sidewalks, storm sewers and street lighting at and around Cariboo Road.

The Director Engineering's estimate for this work is \$1,450,000.00.


Eight (8) tenders were received and opened by municipal staff in the presence of representatives of the firms bidding.

A tabulation of the tenders received is attached (Attachment A). A copy of the schedule of quantities and prices submitted by the recommended bidder, Cicuto & Sons Contractors Ltd., is also attached (Attachment B).

The recommended bidder, Cicuto & Sons Contracts Ltd., has within the past five years performed work of a similar nature for various local municipalities and Crown Corporations. According to the references checked, Cicuto & Sons Contractors Ltd. have an excellent track record and staff does not hesitate in recommending them for the work.

Funding for the Cariboo Heights subdivision development, Phase I, is provided in the 1988 Capital Budget under land assembly and development, specifically from reserves designated for development.

The Director Engineering and our consultant, R.F. Binnie & Associates Ltd., concur with the above recommendation.


Howard Karras
DIRECTOR FINANCE

RR:gw
Attach.
cc: Director Engineering

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ATTACHMENT "A"

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NAME	TENDER TOTAL
1. United Contractors Ltd.	\$1,465,564.00
2. Jack Cewe Ltd.	\$1,553,767.20
3. Dayross Developments Ltd.	\$1,485,678.00
4. Southwest Contracting Ltd.	\$1,527,070.74
5. Millang Enterprises Ltd.	\$1,493,970.00
6. A.B.S. Contracting Ltd.	\$1,723,136.73
7. C. Victor Koran Ltd.	\$1,746,539.00
8. Cicuto & Sons Contractors Ltd.	\$1,411,422.00

CONTRACT NO. 8813
 CARIBOO ROAD UPGRADING - PHASE 1

1988 JULY 14

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

CONTRACT NO. 8813

CARIBOO ROAD UPGRADING - PH

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Quantities in this Schedule are approximate and for tender purposes only. Payment will be made on actual measured quantities of completed work units. Unit prices shall govern and extensions may be corrected if in error. Unit prices tendered shall be used for the purpose of comparison of tenders, for calculating progress payments or for authorized additional work and shall include the supply of all materials, labour, equipment and plant for complete installation or construction of items specified below. Refer to Special Provisions and General Specifications for definition and method of measurement.

ALL QUOTATIONS MUST BE TYPEWRITTEN OR IN INKSECTION I - SITE PREPARATION

This section covers all site preparation and excavation for surface works. Materials must be excavated, and transported to on site fill areas or disposed of in dump sites to qualify for payment under this section. Unit prices for common excavation are to include cutting or filling subgrades to approximate design grades and includes compaction.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
I-1	Engineer's Site Office	Lump Sum		-----	3,000.00
I-2	Clearing and Grubbing	hectare	2	12,000	24,000.00
I-3	Danger Trees	each	25	350	8,750.00
I-4	Stripping of Topsoil/Overburden: a) with disposal at Corporation disposal site	cubic metre	5,000	4.00	20,000.00
	b) with disposal at site provided by Contractor	cubic metre	3,500	5.95	20,825.00
I-5	Common excavation for roadways, sidewalks, curb and gutters boulevards, driveways, retaining walls and steps and on-site disposal	cubic metre	30,000	2.00	60,000.00
I-6	Rubble excavation and on-site disposal	cubic metre	600	27.00	16,200.00
I-7	Rock excavation and on-site disposal (a) For Roadworks (b) In Utility Trenches	cubic metre cubic metre	150 20	100.00 125.00	15,000.00 2,500.00
I-8	Ditch excavation and on-site disposal of excavated material	metre	300	15.00	4,500.00
I-9	Disposal of material off-site	cubic metre	23,000	5.95	136,850.00
I-10	Removal of existing drainage facilities including disposal or salvage as directed.	metre	120	25.00	3,000.00
TOTAL SECTION I				\$	314,625.00

SCHEDULE OF APPROXIMATE QUANTITIES AND

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SECTION II - GRADING

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This section includes all grading of roadways, driveways and boulevard areas. Unit prices are to include grading of existing materials that can be used for base construction as well as the grading of new imported material.

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Item	Description	Unit	Approx. Quantity	Rate	Extended Total
II-1	Boulevard grading - tolerance ± 25 mm.	Square metre	10,000	1.00	10,000.00
II-2	Subgrade preparation - roads and driveways only, tolerance ± 25 mm.	Square metre	14,500	1.00	14,500.00
II-3	Fine grading for roadways - tolerance ± 6 mm.	Square metre	14,000	.87	12,180.00
II-4	Fine grading for driveways - tolerance ± 6 mm.	Square metre	500	1.50	750.00

TOTAL SECTION II \$37,430.00

SECTION III - STORM AND SANITARY SEWERS

This section includes all sewer works required. Unit prices are to include excavation, bedding, backfill and restoration except as noted in the Special Provisions. Imported granular backfill, where ordered will be paid for under Section VI, otherwise payment is in accordance with Forms V and X of the General Specifications.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
III-1	Main line storm sewer - Supply and install sewer pipe including caps to all depths.				
	a) 200 mm dia.	metre	200	63.00	12,600.00
	b) 250 mm dia.	metre	200	68.00	13,600.00
	c) 300 mm dia.	metre	25	75.00	1,875.00
	d) 375 mm dia.	metre	50	85.00	4,250.00
III-2	Main line sanitary sewer - Supply and install sewer pipe including caps to all depths				
	200mm dia. main	metre	80	63.00	5,040.00
III-3	Storm house connections - all types, all depths - Std. Dwg. L 944.				
	a) 100 mm diameter	metre	300	45.00	13,500.00
	b) 150 mm diameter	metre	50	50.00	2,500.00
	c) 300mm diameter	metre	15	75.00	1,125.00

SCHEDULE OF APPROXIMATE QUANTITIES AN

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SECTION III - STORM AND SANITARY SEWERS cont'd

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
III-4	<u>Sanitary house connections</u> 100mm diameter	metre	30	40.00	1,200.00
III-5	<u>Manholes - Storm and Sanitary Sewers</u> - 1050 mm dia.				
	a) Base and Cover	each	14	1,000.00	14,000.00
	b) Barrels	vert metre	32	210.00	6,720.00
	c) Outside Drops - extra over	vert metre	0.4	650.00	260.00
III-6	<u>Catch basins</u> - supply and install				
	a) Type I	each	3	400.00	1,200.00
	b) Type II	each	8	450.00	3,600.00
	c) Type V	each	20	450.00	9,000.00
	d) Type VA	each	2	900.00	1,800.00
III-7	Remove or abandon existing catch basins	each	6	120.00	720.00
III-8	Relocate existing catch basins and supply and install new catch basin frames and grates.	each	1	380.00	380.00
III-9	<u>Catch basins leads</u> - all depths				
	a) 150 mm diameter	metre	210	55.00	11,550.00
	b) 200 mm diameter	metre	200	65.00	13,000.00
III-10	Regrade and relay existing sewer connections	metre	10	60.00	600.00
III-11	Supply and install 200 mm dia. concrete culvert pipe	metre	20	51.00	1,020.00
III-12	Supply and install drain tile including drain rock and filter cloth.				
	100 mm diameter	metre	800	20.00	16,000.00
III-13	Concrete Cradling or Jacketing - Supply and place where ordered	cubic metre	5	250.00	1,250.00

TOTAL SECTION III \$136,790.00

SCHEDULE OF APPROXIMATE QUANTITIES A

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SECTION IV - WATERWORKS

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This section includes all waterworks required. Unit prices are to include materials, excavation, bedding, backfilling and restoration, where required. Imported granular backfill, where ordered, will be paid for under Section VI; otherwise payment is in accordance with Form VI of the General Specifications.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
IV-1	Ductile Iron Watermain Supply and install watermain to all depths				209
	a) 200 mm diameter	metre	260	\$ 94.00	24,440.00
	b) 250 mm diameter	metre	25	100.00	2,500.00
	c) 300 mm diameter	metre	440	116.00	51,040.00
IV-2	Gate Valves				
	a) 200 mm FLG. x TYT.	each	5	658.00	3,290.00
	b) 250 mm FLG. x TYT.	each	1	1,030.00	1,030.00
	c) 300 mm FLG. TYT.	each	3	1,302.00	3,906.00
IV-3	Tees complete including thrust blocks				
	a) 300 mm TYT. x 300 mm FLG. x 200 mm FLG.	each	1	685.00	685.00
	b) 300 mm TYT. x 300 mm TYT. x 200 mm FLG.	each	2	610.00	1,220.00
	c) 300 mm TYT. x 200 mm FLG. x 250 mm FLG.	each	1	800.00	800.00
	d) 200 mm TYT. x 200 mm FLG. x 200 mm FLG.	each	1	425.00	425.00
IV-4	Bends complete including thrust blocks				
	a) 300 mm TYT. x TYT. 22 1/2 °	each	1	365.00	365.00
	b) 200 mm TYT. x TYT. 22 1/2 °	each	1	200.00	200.00
IV-5	Caps				
	a) 200 mm	each	4	85.00	340.00
	b) 250 mm	each	1	128.00	128.00
	c) 300 mm	each	2	175.00	350.00
IV-6	Hydrant assembly Type No. I	each	1	2,250.00	2,250.00
IV-7	Testing and disinfecting	Lump Sum		800.00	800.00

TOTAL SECTION IV \$93,769.00

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SECTION V - ADJUSTMENTS OF EXISTING APPURTENANCES

The unit prices for the items in this section shall include all labour, equipment and materials required to adjust the various existing fixtures to finished design grades and/or alignment.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
V-1	Adjust storm or sanitary manhole covers	each	15	\$ 125.00	1,875.00
V-2	Adjust valve box covers	each	8	55.00	440.00
V-3	Adjust catch basin grates	each	2	65.00	130.00
V-4	Rotate existing manhole lids including adjustment	each	1	135.00	135.00
TOTAL SECTION V					\$2,580.00

SECTION VI - SUPPLY OF GRAVEL, SAND, AGGREGATES AND HYDROSEEDING

Unit prices for the following items are to include the supply, transporting, placing and compaction costs of the various aggregates.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
VI-1	Pit run gravel for road and sidewalk construction.	tonne	13,000	6.93	90,090.00
VI-2	75 mm minus crushed gravel base course. Refer to Special Provisions for gradation	tonne	8,000	9.32	74,560.00
VI-3	20 mm minus crushed gravel Refer to Special Provisions for gradation	tonne	4,500	9.32	41,940.00
VI-4	Imported pit run granular back-fill for utility trenches where ordered, including compaction	tonne	7,000	6.25	43,750.00
VI-5	Hydroseeding:				
	a) Fertilizing and seeding	square metre	10,000	.30¢	3,000.00
	b) Mulching	square metre	10,000	.20¢	2,000.00
TOTAL SECTION VI					\$255,340.00

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SECTION VII - PORTLAND CEMENT CONCRETE CURBS, WALKS, STEPS, AND WALLS

The unit prices in this section shall include all labour, materials and equipment for concrete works. The unit prices shall include the supply, placing, grading and compacting of 20 mm minus crushed gravel and all subgrade preparation and fine grading as required by the Specifications.

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Item	Description	Unit	Approx. Quantity	Rate	Extended Total
VII-1	Combined curb and gutter Type A or AX, curved or straight including vertical adjustment of catch basins.	metre	1,600	\$ 20.00	32,000.00
VII-2	Extruded concrete median curb Std. Dwg. L766	metre	1,400	12.00	16,800.00
VII-3	Sidewalks	square metre	2,400	20.00	48,000.00
VII-4	Sidewalk crossings a) 140 mm thick - extra over sidewalk. b) 190 mm thick - extra over sidewalk.	square metre	100	4.50	450.00
VII-5	Connector Walks.	square metre	20	10.50	210.00
VII-6	Steps and risers.	square metre	25	36.00	900.00
VII-7	Retaining walls and wing walls for steps.	riser metres	10	67.00	670.00
VII-8	Retaining Walls: a) Integrated retaining wall as per Std. Dwg. L769 b) Gravity retaining wall as per Std. Dwg. L602	cubic metres	1	675.00	675.00
			10	561.00	5,610.00
	i) 0-2m height	cubic metre	100	360.00	36,000.00
	ii) Greater than 2m in height	cubic metre	30	370.00	11,100.00
VII-9	Wheel chair ramps where ordered. (extra over sidewalks)	each	12	34.00	408.00
VII-10	Supply and install No Post barrier: a) 810 mm high b) 460 mm high	metre	40	88.00	3,520.00
		metre	20	59.00	1,180.00
VII-11	Relocate existing no post barrier	metre	34	15.00	510.00
VII-12	Handrail	metre	25	45.00	1,125.00

TOTAL SECTION VII \$159,158.00

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SECTION VIII - ASPHALTIC CONCRETE

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This section covers all the various types and methods of placement of asphaltic concrete. Unit prices shall include the supply, transportation and placing of the asphaltic concrete types specified.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
VIII-1	Clean existing pavement, fill cracks and tack coat.	square metre	500	\$ 1.00	500.00
VIII-2	Asphaltic concrete Type IV				
	a) 0 - 2 m strip width	tonne	50	57.00	2,850.00
	b) over 2 m strip width	tonne	1900	48.00	91,200.00
VIII-3	Asphaltic concrete Type V - hand laid.	tonne	100	72.00	7,200.00
VIII-4	Extruded asphaltic concrete curb	metre	70	17.00	1,190.00
TOTAL SECTION VIII				\$102,940.00	

SECTION IX- STREET LIGHTING APPURTENANCES

The following items include various street lighting works. Unit prices are to include all necessary excavation, bedding, supply of material, installation and backfilling and restoration for the items listed. Imported granular backfill is not to be included as this item will be paid for under Section VI.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
IX-1	Supply and install rigid P.V.C. conduit:				
	a) 32 mm diameter	metre	2500	8.95	22,375.00
	b) 50mm diameter	metre	100	10.75	1,075.00
IX-2	Supply and install wiring:				
	a) 2-#6 TWH feeders with 1-#6 TWH ground	metre	250	4.45	1,113.00
	b) 3-#6 TWH feeders with 1-#6 TWH ground	metre	2250	5.20	11,700.00
IX-3	Supply and install junction boxes As per standard drawing L.1695, Type 1	each	8	45.00	360.00

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SECTION IX- STREET LIGHTING APPURTENANCES - cont'd

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
IX-4	Supply and install concrete streetlight pole bases. Standard drawings L736 and L1160	each	32	\$ 253.00	8,096.00
IX-5	Supply and install poles complete with luminaires and lamps:				
	a) 9.14m davit pole with:				
	i) Sylvania LXB 2227-150 luminaire and LU150/55 clear HPS lamp	each	7	800.00	5,600.00
	ii) Sylvania LXB 2227-240 luminaire with LU 150/55 clear HPS lamp	each	23	780.00	12,940.00
	b) 8.23m davit pole complete with distribution base and Sylvania LXB 2227-150 luminaire and LU150/55 clear HPS lamp and photocell	each	1	2,100.00	2,100.00
IX-6	Relocate existing streetlight pole		Lump Sum	-----	600.00
IX-7	Replace existing 400W MV lamps and luminaires with 150W HPS clear lamps and luminaires	each	5	245.00	1,225.00
IX-8	Replace existing 40 Amp breaker with new 60 Amp breaker and connect to new streetlight pole		Lump Sum	-----	80.00

TOTAL SECTION IX 72,264.00

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SECTION X - B.C. HYDRO CIVIL WORKS

This section includes the installation of B.C. Hydro Civil Works. The unit prices shall include pickup and delivery to the site of the required materials supplied by B.C. Hydro and the installation of the items described. Unit prices are to include all necessary excavation, bedding or backfilling and restoration for the items listed. Imported granular backfill, where ordered, is not included as this item will be paid under the appropriate item in Section VI.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
X-1	100mm ducting in concrete:				
	a) 1-duct	metre	50	43.00	2,150.00
	b) 2-duct bank	metre	5	44.00	220.00
	c) 3-duct bank	metre	75	45.00	3,375.00
	d) 4-duct bank	metre	18	48.00	864.00
	e) 6-duct bank	metre	190	50.00	9,500.00
	f) 7-duct bank	metre	30	54.00	1,620.00
	g) 9-duct bank	metre	510	60.00	30,600.00
	h) 10-duct bank	metre	85	62.00	5,270.00
	i) 12-duct bank	metre	32	73.00	2,336.00
	j) 19-duct bank	metre	12	88.00	1,056.00
X-2	Precast manhole 4.2m x 2.4m	each	4	4,000.00	16,000.00
X-3	Switching kiosk	each	1	2,200.00	2,200.00
X-4	Service box	each	2	800.00	1,600.00
X-5	Junction box	each	2	800.00	1,600.00
X-6	Pole pilaster:				
	a) 1-way	each	5	150.00	750.00
	b) 3-way	each	1	220.00	220.00
X-7	75 mm service (not in concrete)	metre	25	25.00	625.00

TOTAL SECTION X

79,986.00

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SECTION XI - B.C. TELEPHONE CIVIL WORKS

This section includes the installation of B.C. Telephone Civil Works. The unit prices shall include pickup and delivery to the site of the required materials supplied by B.C. Telephone and the installation of the items described. Unit prices are to include all necessary excavation, bedding or backfilling and restoration for the items listed. Imported granular backfill, where ordered, is not included as this item will be paid under the appropriate item in Section VI.

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Item	Description	Unit	Approx. Quantity	Rate	Extended Total
XI-1	100mm Ducting:				
	a) 1-duct	m	75	30.00	2,250.00
	b) 2-duct bank	m	35	30.00	1,050.00
	c) 3-duct bank	m	135	35.00	4,725.00
	d) 6-duct bank	m	530	40.00	21,200.00
	e) 7-duct bank	m	30	41.00	1,230.00
	f) 9-duct bank	m	35	43.00	1,505.00
	g) 12-duct bank	m	165	50.00	8,250.00
XI-2	Precast line manholes:				
	a) PLMH 3152	each	3	3700.00	11,100.00
	b) PLMH 4162	each	1	3800.00	3,800.00
XI-3	Service vault - 1.5m x 1.5m	each	1	850.00	850.00
XI-4	Pilasters:				
	a) 1-way	each	2	180.00	360.00
	b) 3-way	each	1	220.00	220.00
TOTAL SECTION XI					56,540.00

SECTION XII - CONTINGENCY WORK

The contingency allowance in this project is to cover unforeseen work which may be required for which unit prices have not been provided.

Payment of the Contingency Allowance or portions thereof will only be made in the event that the Engineer authorizes additional work, in which case the amount of the payment will be determined as specified in the General Conditions. Any unused portion thereof will be retained by the Owner.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
XII-1	Contingency work		Provisional Sum		\$100,000
TOTAL SECTION XII					\$ 100,000

THE CORPORATION OF THE DISTRICT OF
CONTRACT NO. 8813

CARIBOO ROAD UPGRADING - PHASE I

TENDER SUMMARY

Site Preparation	Section I	\$ 314,625.00
Grading	Section II	\$ 37,430.00
Storm and Sanitary Sewers	Section III	\$ 136,790.00
Waterworks	Section IV	\$ 93,769.00
Adjustment of Existing Appurtenances	Section V	\$ 2,580.00
Supply - Gravel, Sand Aggregates and Topsoil	Section VI	\$ 255,340.00
P.C. Concrete, Curbs, Walks, Steps, Driveways and walls	Section VII	\$ 159,158.00
Asphaltic Concrete	Section VIII	\$ 102,940.00
Street Lighting Appurtenances	Section IX	\$ 72,264.00
B.C. Hydro Civil Works	Section X	\$ 79,986.00
B.C. Telephone Civil Works	Section XI	\$ 56,540.00
Contingency Work	Section XII	\$ 100,000.00
TOTAL TENDER		\$ 1,411,422.00

TENDERER: CICUTO & SONS CONTRACTORS LIMITED

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