

ITEM 19
MANAGER'S REPORT NO. 77
COUNCIL MEETING 87/12/14

RE: CONTRACT NO. 8721
MCKAY AVENUE - KINGSWAY TO GRANGE

MUNICIPAL MANAGER'S RECOMMENDATION:

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

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TO: MUNICIPAL MANAGER 1987 DECEMBER 09
FROM: DIRECTOR FINANCE
RE: CONTRACT NO. 8721
MCKAY AVENUE - KINGSWAY TO GRANGE

RECOMMENDATION

1. THAT a contract be awarded to the lowest bidder, Rocky Construction Ltd., to construct roadworks including ancillary services at McKay Avenue - Kingsway to Grange, as per Contract No. 8721 for a total cost of \$226,475.00 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, Friday, 1987 December 04.

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 required to extend McKay Avenue from Kingsway to Grange Street.

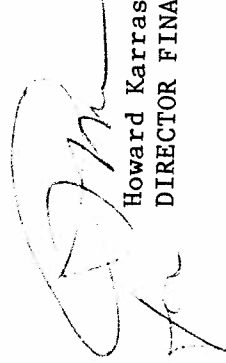
The Engineer's estimate for this project is \$246,800.

Twenty (20) 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 approximate quantities and unit prices submitted by the lowest bidder, Rocky Construction Ltd., is also attached (Attachment B).

Funds to pay for this work have been appropriated from the Capital Works Financing Fund.

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


Howard Karras
DIRECTOR FINANCE

RR:er
Attach.

cc: Director Engineering

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1987 December 04

TENDER TABULATION
 MCKAY AVENUE - KINGSWAY TO GRANGE
 CONTRACT #8721

	<u>NAME</u>			
1.	Rocky Construction Ltd.	\$226,475.00		
2.	Hellyer Services Ltd.	\$238,297.30		
3.	United Contractors Ltd.	\$234,567.00		
4.	H.B. Construction Inc.	\$240,922.00		
5.	Cicuto & Sons Contractors Ltd.	\$239,082.00		
6.	Southwest Contracting Ltd.	\$237,467.00		
7.	B.A. Blacktop Ltd.	\$246,404.40		
8.	Progressive Contracting (Langley) Ltd.	\$227,915.46		
9.	C. Victor Koran Ltd.	\$267,641.00		
10.	B & B Contracting Ltd.	\$279,190.00		
11.	Mons Contractors Ltd.	\$259,183.50		
12.	Keen Contracting Ltd.	\$240,537.00		
13.	A.B.S. Contracting Ltd.	\$281,699.75		
14.	Jack Gewe Ltd.	\$256,751.85		
15.	Tag Construction Ltd.	\$247,458.00		
16.	P. Baratta Construction Ltd.	\$242,333.00		
17.	Imperial Paving Ltd.	\$238,751.00		
18.	Dayross Developments Ltd.	\$241,815.00		
19.	Bel Construction Ltd.	\$239,412.00		
20.	Nola Holdings Ltd.	\$236,291.08		
			<u>TENDER TOTAL</u>	

FORM OF TENDER

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THE CORPORATION OF THE DISTRICT OF BURNABY**SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES****CONTRACT #8721****MCKAY AVENUE - KINGSWAY TO GRANGE**

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 INK**SECTION I - SITE PREPARATION**

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

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
I-1	<u>Clearing Site</u>		Lump Sum	----	<u>1500.⁰⁰</u>
I-2	<u>Common Excavation</u> roadways, sidewalks, curb and gutters, boulevards, driveways, retaining walls and steps.	cubic metre	3,500	<u>6.25</u>	<u>21875.⁰⁰</u>
I-3	<u>Rubble excavation</u> Extra over common excavation: See Special Provisions.	cubic metre	120	<u>10.⁰⁰</u>	<u>1200.⁰⁰</u>
I-4	<u>Rock excavation</u> for roadworks	cubic metre	15	<u>35.⁰⁰</u>	<u>525.⁰⁰</u>
TOTAL SECTION I					<u>25100.⁰⁰</u>

SECTION II - GRADING

This section includes all grading of streets, lanes, 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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
II-1	<u>Boulevard grading</u> - tolerance \pm 25 mm.	Square metre	1,800	<u>0.40</u>	<u>720.⁰⁰</u>
II-2	<u>Subgrade preparation</u> - roads and lanes only, tolerance \pm 25 mm.	Square metre	3,100	<u>0.60</u>	<u>1860.⁰⁰</u>
II-3	<u>Fine grading</u> for roads and lanes only tolerance \pm 6 mm.	Square metre	3,100	<u>0.75</u>	<u>2325.⁰⁰</u>
TOTAL SECTION II					<u>4905.⁰⁰</u>

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SECTION III - STORM SEWERS 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 V, otherwise payment is in accordance with Form V of the General Specifications.

Item	Description	Unit	Quantity	Rate	Total	
III-1	Main line storm sewer - Supply and install sewer pipe including caps to all depths.	a) 450 mm dia	metre	5	250. ⁰⁰	1250. ⁰⁰
		b) 900 mm dia.	metre	65	265. ⁰⁰	17225. ⁰⁰
		c) 1050 mm dia.	metre	40	290. ⁰⁰	11600. ⁰⁰
III-2	Manholes - Storm	a) 1200mm diameter	each	2	750. ⁰⁰	1500. ⁰⁰
		i) Base and Cover				
	ii) Barrels	vert	metre	5	195. ⁰⁰	975. ⁰⁰
	b) MH #1 at Grange/McKay 1800 mm dia.	Lump	Sum			3000. ⁰⁰
	c) MH #2 at Grange/McKay 1800 mm dia.	Lump	Sum			3000. ⁰⁰
III-3	Remove existing manholes - - all diameters, all depths	each	1	75. ⁰⁰	75. ⁰⁰	
III-4	Bends - supply and install 1050 mm dia. - Miltred	a) 30° bend	each	1	850. ⁰⁰	850. ⁰⁰
		b) 45° bend	each	1	850. ⁰⁰	850. ⁰⁰
III-5	Catch basins - supply and install	a) Type I	each	1	890. ⁰⁰	890. ⁰⁰
		b) Type V	each	5	350. ⁰⁰	1750. ⁰⁰
		c) Type VA	each	1	350. ⁰⁰	350. ⁰⁰
		d) Type VI	each	4	190. ⁰⁰	760. ⁰⁰
III-6	Remove or abandon existing catch basins	each	1	35. ⁰⁰	35. ⁰⁰	

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SECTION III - STORM SEWERS AND SANITARY SEWERS cont'd

Item	Description	Unit	Quantity	Rate	Total
III-7	Relocate existing catch basins and supply and install new catch basin frames and grates.	each	1	<u>320.</u> ⁰⁰	<u>320.</u> ⁰⁰
III-8	<u>Catch basins leads</u> - all depths				
	a) 150 mm diameter	metre	70	<u>40.</u> ⁰⁰	<u>2800.</u> ⁰⁰
	b) 200 mm diameter	metre	10	<u>50.</u> ⁰⁰	<u>500.</u> ⁰⁰
III-9	Rock excavation in utility trenches	cubic metre	10	<u>60.</u> ⁰⁰	<u>600.</u> ⁰⁰
III-10	Supply and install drain tile (where ordered) including drain rock and filter cloth - 100 mm diameter	metre	100	<u>18.</u> ⁰⁰	<u>1800.</u> ⁰⁰
III-11	Supply and Install Sanitary Sewer Mainline - 150 mm diameter	metre	20	<u>40.</u> ⁰⁰	<u>800.</u> ⁰⁰
III-12	Concrete Jacketing	linear metre	16	<u>20.</u> ⁰⁰	<u>320.</u> ⁰⁰
TOTAL SECTION III				<u>51250.</u> ⁰⁰	

SECTION IV - 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	Quantity	Rate	Total
IV-1	Storm or sanitary manhole covers				
	a) Minor Adjustments	each	2	<u>30.</u> ⁰⁰	<u>60.</u> ⁰⁰
	b) Lowering of existing Storm Manhole frame and cover at Lane/Hazel	Lump Sum		<u>140.</u> ⁰⁰	
	c) Lowering of existing sanitary manhole frame and cover on McKay south of Grange	Lump Sum		<u>200.</u> ⁰⁰	

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SECTION IV - ADJUSTMENTS OF EXISTING APPURTENANCES cont'd 175

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
IV-2	Valve box covers	each	2	25. ⁰⁰	50. ⁰⁰
IV-3	Catch basin grates	each	1	45. ⁰⁰	45. ⁰⁰
TOTAL SECTION IV					495.⁰⁰

SECTION V - SUPPLY OF GRAVEL, SAND, AGGREGATES AND TOPSOIL

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

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
V-1	Pit run gravel for road and sidewalk construction.	tonne	3,500	7. ⁸⁵	27,475. ⁰⁰
V-2	75 mm minus crushed gravel	tonne	200	8. ¹⁰	1,620. ⁰⁰
V-3	20 mm minus crushed gravel	tonne	800	9. ⁵⁰	7,600. ⁰⁰
V-4	Imported pit run granular back-fill for utility trenches where ordered, including compaction	tonne	600	7. ⁶⁵	4,590. ⁰⁰
V-5	Topsoil to a compacted depth of 100 mm on boulevards as ordered	cubic metre	150	15. ⁰⁰	2,250. ⁰⁰
TOTAL SECTION V					43,535.⁰⁰

SECTION VI - PORTLAND CEMENT CONCRETE CURBS, WALKS, STEPS, DRIVEWAYS 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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VI-1	Combined curb and gutter Type A or AX, curved or straight including vertical adjustment of catch basins.	metre	420	20. ⁵⁰	8,610. ⁰⁰
VI-2	Sidewalks	square metre	280	15. ⁰⁰	4,200. ⁰⁰
VI-3	Wheel chair ramps where ordered. (extra over sidewalks)	each	4	20. ⁰⁰	80. ⁰⁰
TOTAL SECTION VI					12,890.⁰⁰

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SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

SECTION VII - ASPHALTIC CONCRETE

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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VII-1	Clean existing pavement, fill cracks and tack coat.	square metre	50	4. ⁰⁰	200. ⁰⁰
VII-2	Asphaltic concrete Type IV	tonne	800	40. ⁰⁰	32000. ⁰⁰

TOTAL SECTION VII 32700.⁰⁰

SECTION VIII - TRAFFIC SIGNALS AND STREETLIGHTING

The following items include various traffic signals and streetlighting work necessary to complete the project. Unit prices are to include all necessary excavation, bedding, supply of material, installation, backfilling and restoration for the items listed. Imported granular backfill is not to be included as this item will be paid for under Section V.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VIII-1	Supply and install Traffic Signals at McKay and Grange (See Special Provisions)	Lump Sum		-----	13500. ⁰⁰
VIII-2	Supply and install Rigid P.V.C. Conduit:				
	a) 32 mm dia	metre	270	11. ⁰⁰	2970. ⁰⁰
	b) 50 mm dia	metre	110	13. ⁰⁰	1430
VIII-3	Supply and install wiring				
	a) 2 - #6 TWH Feeders with 1 - #6 TWH Ground	metre	75	3. ⁴⁰	255. ⁰⁰
	b) 3 - #6 TWH Feeders with 1 - #6 TWH Ground	metre	120	4. ⁵⁰	540. ⁰⁰
VIII-4	Supply and install junction boxes Std. Dwg. L1695, Type 1	each	4	90. ⁰⁰	360. ⁰⁰
VIII-5	Supply and install concrete pole bases - Std. Dwg. L736	each	5	250. ⁰⁰	1250. ⁰⁰
VIII-6	Supply and install 9.14m high devit arm poles with luminaires c/w polycarbonate refractors with				
	a) 150W HPS lamps	each	1	690. ⁰⁰	690. ⁰⁰
	b) 250W HPS lamps	each	4	735. ⁰⁰	2940. ⁰⁰

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SECTION VIII - TRAFFIC SIGNALS AND STREET LIGHTING cont'd 177

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VIII-7	Remove existing 400W MV luminaire and lamp and replace with new 250W HPS luminaire and lamp	Lump Sum		-----	275. ⁰⁰
VIII-8	Supply and install photocell	each	1	-----	30. ⁰⁰
VIII-9	Tie in to B.C. Hydro pole	Lump Sum		-----	1860. ⁰⁰

TOTAL SECTION VIII 26100.⁰⁰

SECTION IX - CONTINGENCY WORK

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

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
IX-1	Contingency work - Payment to be made per Section 40, General Conditions				
				Provisional Sum	30,000.00

TOTAL SECTION IX 30,000.00

FORM OF TENDER

THE CORPORATION OF THE DISTRICT OF BURNABY

CONTRACT #8721

TENDER SUMMARY

Site Preparation	Section I	\$ <u>25100.⁰⁰</u>
Grading	Section II	\$ <u>4905.⁰⁰</u>
Storm and Sanitary Sewers	Section III	\$ <u>51250.⁰⁰</u>
Adjustment of Existing Appurtenances	Section IV	\$ <u>495.⁰⁰</u>
Supply - Gravel, Sand Aggregates and Topsoil	Section V	\$ <u>43535.⁰⁰</u>
P. C. Concrete, Curbs, Walks, Steps, Driveways and walls	Section VI	\$ <u>12890.⁰⁰</u>
Asphaltic Concrete	Section VII	\$ <u>32200.⁰⁰</u>
Traffic Signals and Streetlighting	Section VIII	\$ <u>26100.⁰⁰</u>
Contingency Work	Section IX	\$ <u>30000.00</u>
TOTAL TENDER		\$ <u>226475.⁰⁰</u>

TENDERER: Rocky Construction LTD.

