

ITEM 5
MANAGER'S REPORT NO. 41
COUNCIL MEETING 87/06/15

RE: CONTRACT NO. 8703 - VARIOUS ROADWORKS AND
1986 LOCAL IMPROVEMENT PROGRAM - PHASE III

MUNICIPAL MANAGER'S RECOMMENDATION:

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

* * * * *

1987 June 10

TO: MUNICIPAL MANAGER
FROM: DIRECTOR FINANCE
RE: CONTRACT NO. 8703 - VARIOUS ROADWORKS AND
1986 LOCAL IMPROVEMENT PROGRAM - PHASE III

RECOMMENDATION

1. THAT a contract be awarded to the lowest bidder, ABS Contracting Ltd., to perform various roadworks and 1986 local improvement work - phase III - as per Contract No. 8703 for a total cost of \$689,797.90 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 May 29.

The work of the contract involves the reconstruction of various roadways and local improvement works throughout Burnaby, including the supply and installation of materials for road and sidewalk construction, storm sewer and street lighting installation.

More specifically, the work is for improvements on Canada Way east of the Municipal Hall, the reconstruction of Park Drive from the Burnaby Village Museum to Gilpin Street, and local improvements on Rugby Street.

The Director Engineering's estimate for this project is \$780,000.

Seven (7) 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, ABS Contracting Ltd., is also attached (Attachment B).

Funds for the subject work are provided in various accounts throughout the 1987 Capital Budget.

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


Howard Karras
DIRECTOR FINANCE

RR:gw
Attach.

cc: Director Engineering

ITEM 5
 MANAGER'S REPORT NO. 41
 COUNCIL MEETING 87/06/15

108

1. Hellyer Services Ltd.	\$721,994.00
2. A.B.S. Contracting Ltd.	\$689,797.90
3. United Contractors Ltd.	\$732,001.00
4. Jack Cewe Ltd.	\$747,401.71
5. Imperial Paving Ltd.	\$748,188.00
6. Progressive Contracting (Langley) Ltd.	\$709,838.08
7. Columbia Bitulithic Ltd.	\$776,829.91
Bidder	Tender Total

LOW BIDDER

A.B.S. Contracting
 15480 Westminster Hwy.
 Richmond, B.C.
 V6V 1A6

TENDER TABULATION

CONTRACT #8703

LOCAL IMPROVEMENT PROGRAM - PHASE 3

1987 May 29



FORM OF TENDER

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

THE CORPORATION OF THE DISTRICT OF BURNABY
SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

REVISED - ADDENDUM NO. 1CONTRACT #87031986 LOCAL IMPROVEMENT PROGRAM PHASE IIIAND OTHER ROADWORKS

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 excavation for surface works. Materials must be excavated, loaded 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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
1-1	<u>Cleaning and grubbing on Deer Lake Avenue/Gilpin Street from Bridge to Century Park Way.</u>			----	<u>1500.00</u>
1-2	<u>Common Excavation roadways, sidewalks, curb and gutters boulevards, driveways, retaining walls and steps.</u>	cubic metre	5,700	<u>7.25</u>	<u>41,325.00</u>
1-3	<u>Rubble excavation Extra over common excavation. See Special Provisions.</u>	cubic metre	800	<u>7.00</u>	<u>5600.00</u>
1-4	<u>Rock excavation for roadworks</u>	cubic metre	5	<u>25.00</u>	<u>125.00</u>
1-5	<u>Removal of existing drainage facilities including disposal or salvage as directed.</u>	metre	300	<u>3.50</u>	<u>1050.00</u>
1-6	<u>Remove existing rock wall on Canada Way and reconstruct to suit new sidewalk construction (payment to be made per Clause 40 of the General Conditions).</u>	metre	160	<u>6.50</u>	<u>1040.00</u>
1-7	<u>Remove and relocate no post barrier on Deer Lake Avenue and Gilpin Street</u>				
	Provisional Sum				2,000.00

TOTAL SECTION I 52640.00 ✓

FORM OF TENDER

CONTRACT # 8703

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

110

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 ± 25 mm.	Square metre	10,200	<u>.60</u>	<u>6120.00</u>
II-2	<u>Subgrade preparation -</u> roads and driveways only, tolerance ± 25 mm.	Square metre	9,300	<u>.75</u>	<u>6975.00</u>
II-3	<u>Fine grading for roadways -</u> tolerance ± 6 mm.	Square metre	7,200	<u>.50</u>	<u>3600.00</u>
II-4	<u>Fine grading for driveways -</u> tolerance ± 6 mm.	Square metre	2,100	<u>1.00</u>	<u>2100.00</u>

TOTAL SECTION II 18795.00 ✓

SECTION III - STORM SEWERS

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

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
III-1	<u>Main line storm sewer -</u> Supply and install sewer pipe including caps to all depths.				
	a) 200 mm dia.	metre	87	<u>70.00</u>	<u>6090.00</u>
	b) 300 mm dia.	metre	88	<u>80.00</u>	<u>7040.00</u>
III-2	<u>Storm house connections -</u> all types, all depths - Std. Dwg. L 944.				
	a) 100 mm diameter	metre	20	<u>35.85</u>	<u>717.00</u>
	b) 150 mm diameter	metre	40	<u>40.45</u>	<u>1618.00</u>
	c) 200 mm diameter	metre	25	<u>44.55</u>	<u>1113.75</u>

FORM OF TENDER
CONTRACT # 8703

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

SECTION III - STORM SEWERS cont'd

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
III-3	<u>Manholes - Storm</u>				
	a) Base and Cover (i) 1050 mm dia.	each	4	<u>832.60</u>	<u>3328.00</u>
	b) Barrels (i) 1050 mm dia.	vert metre	7	<u>204.00</u>	<u>1428.00</u>
III-4	<u>Remove existing manholes -</u>				
	- all diameters, all depths	each	1	<u>50.00</u>	<u>50.00</u>
III-5	<u>Catch basins - supply and install</u>				
	a) Type V	each	18	<u>465.00</u>	<u>8370.00</u>
	b) Type VA	each	4	<u>875.00</u>	<u>3500.00</u>
	c) Type VI	each	5	<u>50.00</u>	<u>250.00</u>
III-6	Remove or abandon existing catch basins	each	11	<u>50.00</u>	<u>550.00</u>
III-7	Relocate existing catch basins and supply and install new catch basin frames and grates.	each	8	<u>347.00</u>	<u>2776.00</u>
III-8	<u>Catch basins leads - all depths</u>				
	a) 150 mm diameter	metre	110	<u>40.45</u>	<u>4449.50</u>
	b) 200 mm diameter	metre	35	<u>44.55</u>	<u>1559.25</u>
III-9	Rock excavation in utility trenches	cubic metre	5	<u>25.00</u>	<u>125.00</u>
III-10	Supply and install drain tile (where ordered) including drain rock and filter cloth				
	a) 100 mm diameter	metre	1,150	<u>16.95</u>	<u>19492.50</u>
	b) 150 mm diameter	metre	460	<u>20.70</u>	<u>9522.00</u>

TOTAL SECTION III 71939.00 ✓

FORM OF TENDER

CONTRACT #8703

ITEM 5
MANAGER'S REPORT NO. 41
COUNCIL MEETING 87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

112

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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
IV-1	Storm or sanitary manhole covers	each	30	<u>125.00</u>	<u>3750.00</u>
IV-2	Valve box covers	each	25	<u>50.00</u>	<u>1250.00</u>
IV-3	Catch basin grates	each	2	<u>50.00</u>	<u>100.00</u>
IV-4	Street lighting junction boxes	each	5	<u>40.00</u>	<u>200.00</u>

TOTAL SECTION IV 5300.00 ✓

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	4,000	<u>8.10</u>	<u>32400.00</u>
V-2	75 mm minus crushed gravel	tonne	100	<u>9.55</u>	<u>955.00</u>
V-3	20 mm minus crushed gravel	tonne	2,000	<u>10.00</u>	<u>20000.00</u>
V-4	Pit run gravel behind retaining walls or other confined fill areas	tonne	100	<u>6.80</u>	<u>680.00</u>
V-5	Imported pit run granular back-fill for utility trenches where ordered, including compaction	tonne	1,300	<u>6.50</u>	<u>8450.00</u>
V-6	Topsoil to a compacted depth of 100 mm on boulevards as ordered	cubic metre	1,700	<u>14.50</u>	<u>24650.00</u>

TOTAL SECTION V 87135.00 ✓

FORM OF TENDER

CONTRACT #8703

ITEM 5
MANAGER'S REPORT NO. 41
COUNCIL MEETING 87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

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	2,400	<u>20.20</u>	<u>48480.00</u>
VI-2	Combined curb and gutter Type B or BX, curved or straight including vertical adjustment of catch basins	metre	630	<u>18.80</u>	<u>11844.00</u>
VI-3	Sidewalks	square metre	2,860	<u>14.95</u>	<u>42757.00</u>
VI-4	Sidewalk crossings	square metre	120	<u>4.75</u>	<u>570.00</u>
	a) 140 mm thick - extra over sidewalk.	square metre	100	<u>9.20</u>	<u>920.00</u>
	b) 190 mm thick - extra over sidewalk.	square metre	10	<u>21.75</u>	<u>217.50</u>
VI-5	Concrete driveways - 140 mm thickness	square metre	700	<u>10.55</u>	<u>7385.00</u>
VI-6	a) Extruded concrete median curb - Std. Dwg. L766	metre	380	<u>11.65</u>	<u>4427.00</u>
	b) Extruded concrete curb - Std Dwg L348	metre	100	<u>27.20</u>	<u>2720.00</u>
VI-7	Connector Walks	square metre	6	<u>49.90</u>	<u>299.40</u>
VI-8	Steps and risers	riser metres	1	<u>428.00</u>	<u>428.00</u>
VI-9	Retaining walls and wing walls for steps.	cubic metre	25	<u>142.50</u>	<u>3562.50</u>
VI-10	a) Integrated retaining wall and sidewalk complete	metre	25	<u>37.00</u>	<u>925.00</u>
	b) Handrail-Dwg. L-1505	metre	25		

FORM OF TENDER

CONTRACT #8703

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

114

SECTION VI - PORTLAND CEMENT CONCRETE CURBS, WALKS, STEPS, DRIVEWAYS AND WALLS cont'd

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VI-11	Retaining Walls Std. Dwg. L-602				
	0 m - 2 m high	cubic metre	10	<u>382.00</u>	<u>3820.00</u>
VI-12	Wheel chair ramps where ordered. (extra over sidewalks)	each	15	<u>4.00</u>	<u>60.00</u>

TOTAL SECTION VI 128415.40 ✓

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	5,400	<u>21</u>	<u>1134.00</u>
VII-2	Milling existing asphaltic concrete. See Special Provisions	square metre	3,000	<u>2.05</u>	<u>6150.00</u>
VII-3	Asphaltic concrete Type IV				
	a) 0 - 2 m strip width	tonne	300	<u>44.50</u>	<u>13350.00</u>
	b) over 2 m strip width	tonne	980	<u>41.15</u>	<u>40327.00</u>
VII-4	Asphaltic concrete Type V - machine laid.	tonne	1,650	<u>44.30</u>	<u>73095.00</u>
VII-5	Asphaltic concrete Type V - hand laid.	tonne	570	<u>74.35</u>	<u>42379.50</u>

TOTAL SECTION VII 176435.50 ✓

FORM OF TENDER

CONTRACT #8703

ITEM 5
MANAGER'S REPORT NO. 41
COUNCIL MEETING 87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

SECTION VIII - STREET LIGHTING APPURTENANCES

The following items include various street lighting work necessary to complete the project streets for final paving. Unit prices are to include all necessary excavation, bedding, supply of material, installation and backfilling 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 Rigid P.V.C. Conduit				
	a) 32 mm dia	metre	1,200	<u>6.50</u>	<u>7800.00</u>
	b) Extra over for duct trench restoration where asphalt pavement restoration is required (See Special Provisions)	metre	25	<u>1.00</u>	<u>25.00</u>
VIII-2	Supply and install wiring				
	a) 2 - #6 TWH Feeders with 1 - #6 TWH Ground	metre	230	<u>3.60</u>	<u>828.00</u>
	b) 3 - #6 TWH Feeders with 1 - #6 TWH Ground	metre	2,000	<u>4.80</u>	<u>9600.00</u>
VIII-3	Supply and install junction boxes as shown on Std Dwg L1695	each	5	<u>57.00</u>	<u>285.00</u>
VIII-4	Supply and install concrete pole bases	each	52	<u>159.00</u>	<u>8268.00</u>
VIII-5	Supply and install post top streetlight poles complete with luminaire and lamp				
	a) 6 m high with 100 watts luminaire and 100 watt H.P.S. lamp	each	50	<u>646.00</u>	<u>32300.00</u>
	b) 5m high with 100 watt luminaire and 100 watt H.P.S. lamp with distribution base and photocell	each	2	<u>1745.00</u>	<u>3490.00</u>
VIII-6	Relocate existing streetlight poles including supply and install new concrete bases				
	- 9.14m high davit arm poles on Canada Way	each	7	<u>393.00</u>	<u>2751.00</u>

FORM OF TENDER

CONTRACT # 8703

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES - cont'd

REVISED - ADDENDUM NO. 1

116

SECTION VIII - STREET LIGHTING APPURTENANCES cont'd

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Total</u>
VIII-7	Tie in to Existing B.C. Hydro Poles (See Std. Dwg. L738)	each	2	<u>613.00</u>	<u>1226.00</u>
VIII-8	Remove existing davit arm poles and bases on Century Parkway, Gilpin Street	each	15	<u>171.00</u>	<u>2565.00</u>

TOTAL SECTION VIII 69,138.00 ✓

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	80,000.00

TOTAL SECTION IX 80,000.00

FORM OF TENDER

THE CORPORATION OF THE DISTRICT OF B

CONTRACT #8703

REVISED - ADDENDUM NO. 1

ITEM	5
MANAGER'S REPORT NO.	41
COUNCIL MEETING	87/06/15

TENDER SUMMARY

Site Preparation	Section I	\$ <u>52640.00</u>	✓
Grading	Section II	\$ <u>18795.00</u>	✓
Storm Sewers	Section III	\$ <u>71939.00</u>	✓
Adjustment of Existing Appurtenances	Section IV	\$ <u>5300.00</u>	✓
Supply - Gravel, Sand Aggregates and Topsoil	Section V	\$ <u>87135.00</u>	✓
P.C. Concrete, Curbs, Walks, Steps, Driveways and walls	Section VI	\$ <u>128415.40</u>	✓
Asphaltic Concrete	Section VII	\$ <u>176435.50</u>	✓
Street Lighting Appurtenances	Section VIII	\$ <u>69138.00</u>	✓
Contingency Work	Section IX	\$ <u>80,000.00</u>	
TOTAL TENDER		\$ <u>689797.90</u>	✓

TENDERER: ABS CONTRACTING LTD.

