



RE: CONTRACT NO. 8820
CONSTRUCTION OF KINGSBOROUGH STREET BETWEEN WILLINGDON AND MCKAY AVENUES

MUNICIPAL MANAGER'S RECOMMENDATION:

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

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TO: MUNICIPAL MANAGER 1988 December 05

FROM: DIRECTOR FINANCE

SUBJECT: CONTRACT NO. 8820-CONSTRUCTION OF KINGSBOROUGH
STREET BETWEEN WILLINGDON AND MCKAY AVENUES

PURPOSE: To obtain approval to award a contract for the construction
of Kingsborough Street between Willingdon and McKay Avenues.

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RECOMMENDATION

1. THAT a contract be awarded to the lowest bidder, Jack Cewe Ltd., to construct roadworks including ancillary services at Kingsborough Street between Willingdon and McKay Avenues for a total cost of \$225,082.04 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 1988 November 18.

The work of this contract involves the supply and installation of materials, including all necessary labour, equipment, plant and tools related to the construction of roads, sidewalks, sanitary sewers, storm sewers, street lighting and underground electrical and telephone utilities on Kingsborough Street between Willingdon and McKay Avenues.

The Director Engineering's estimate for this work is \$237,000.00.

Four (4) 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 recommended bidder, Jack Cewe Ltd., is also attached (Attachment B).

The recommended bidder, Jack Cewe Ltd., has been in the road construction business in the metropolitan area for the past 35 years. They have successfully completed a number of similar projects for Burnaby in the past five years. The Director Engineering is confident that they have the necessary experience and resources to satisfactorily complete the work of this contract.

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Funding for this work is provided in the 1988 Capital Budget under Major Roads and the funds to pay for the works were appropriated from capital reserves 1988 August 22 by Bylaw No. 9067.

The Director Engineering and our consultant, U.M.A. Engineering Ltd., concu**102** with the above recommendation.


Howard Karras
DIRECTOR FINANCE

for

RR:ah
Attach.

cc. Director Engineering

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ITEM	NAME	AMOUNT
1.	Hellyer Services Ltd.	\$229,346.25
2.	Merletti Construction Ltd.	\$244,987.50
3.	Jack Cewe Ltd.	\$225,082.04
4.	Imperial Paving Ltd.	\$262,954.90
<u>TENDER TOTAL</u>		

1988 November 21
 TENDER TABULATION
 CONTRACT #8820
 CONSTRUCTION OF KINGSBOROUGH STREET
 BETWEEN MCKAY AND WILLINGDON AVENUES

THE CORPORATION OF THE DISTRICT OF BURNABY

SCHEDULE OF APPROXIMATE QUANTITIES

CONTRACT NO. 8820

CONSTRUCTION OF
KINGSBOROUGH STREET BETWEEN
MCKAY AND WILLINGDON AVENUES

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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.

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ALL QUOTATIONS MUST BE TYPED OR IN WRITTEN INKSECTION I - SITE PREPARATION

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
I-1	Clearing and Grubbing	Lump Sum			\$ 853.00
I-2	Common Excavation for roadways, sidewalks, curb and gutters, boulevards and driveways	cubic metre	1605	\$ 10.33	\$ 16,579.65
I-3	Fence removal and relocation	Lump Sum			\$ 975.00
I-4	Removal and off-site disposal of existing catch basins	each	3	\$ 122.00	\$ 366.00
I-5	Removal and off-site disposal of existing manholes	each	1	\$ 183.00	\$ 183.00
I-6	Removal and off-site disposal of substandard or redundant storm and sanitary sewers	metre	60	\$ 30.45	\$ 1,827.00
I-7	Removal and off-site disposal of existing sidewalks	metre	115	\$ 4.27	\$ 491.05
I-8	Removal and off-site disposal of existing curb and gutter	metre	67.5	\$ 6.34	\$ 427.95
I-9	Removal and off-site disposal of existing asphalt - Cassie St.	square metre	300	\$ 3.66	\$ 1,098.00
TOTAL SECTION I					\$ 22,800.65

SECTION II - STORM SEWER

ITEM	1
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This section includes all storm sewer works re to include supply of all materials, excav; compaction and off-site disposal of surplus Imported granular backfill, where ordered, will be paid for under Section V, otherwise payment shall be in accordance with Form V of the General Specifications.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Approx. Quantity</u>	<u>Rate</u>	<u>Extended Total</u>
II-1	Main line storm sewer pipe including caps to all depths				
	a) 250mm diameter	metre	15	\$ 71.17	\$ 1,067.55
	b) 300mm diameter	metre	73	\$ 96.80	\$ 7,066.40
II-2	Manholes - Storm 1050mm diameter				
	a) Base & Cover	each	1	\$ 946.39	\$ 946.39
	b) Barrels	vertical metre	2.7	\$ 165.00	\$ 445.50
	c) Outside Drops	vertical metre	1.6	\$ 609.00	\$ 974.40
II-3	Clean-out as per Burnaby standard drawing C1154				
		each	1	\$ 731.00	\$ 731.00
II-4	Catch basins				
	a) Type V	each	3	\$ 634.16	\$ 1,902.48
	b) Type VA	each	4	\$ 1239.00	\$ 4,956.00
II-5	Catch basin leads				
	a) 200mm diameter	metre	58	\$ 69.86	\$ 4,051.88
II-6	Lot service connection				
	a) 150mm diameter	metre	19	\$ 61.34	\$ 1,165.46
II-7	Drain tile including drain rock and filter cloth (Provisional)				
	a) 150mm diameter	metre	20	\$ 24.36	\$ 487.20
II-8	Break into existing storm sewer manhole and connect 300mm diameter sewer	each	1	\$ 852.60	\$ 852.60
II-9	Pavement cutting and restoration - McKay and Willingdon Ave.	square metre	20	\$ 55.05	\$ 1,101.00
TOTAL SECTION II					\$ 25,747.86 ✓

SECTION III - SANITARY SJ

ITEM	1
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This section includes all sanitary sewer works required. Unit prices are to include supply of all materials, excavation, bedding, backfill, compaction and off-site disposal of surplus excavated material. Imported granular backfill, where ordered, will be paid for under Section V, otherwise payment shall be in accordance with Form V of the General Specifications. 106

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
III-1	Main line sanitary sewers				
	a) 200mm diameter	metre	170	\$ 112.12	\$ 19,060.40
III-2	Service connections				
	a) 150mm diameter	metre	38	\$ 80.00	\$ 3,040.00
III-3	Install manhole over existing sewer 1050mm diameter				
	a) Base and Cover	each	2	\$ 1068.19	\$ 2,136.38
	b) Barrels	vertical metre	6.4	\$ 165.00	\$ 1,056.00
III-4	Install new manhole 1050mm diameter				
	a) Base and Cover	each	1	\$ 947.00	\$ 947.00
	b) Barrels	vertical metre	3.2	\$ 165.00	\$ 528.00
III-5	Pavement cutting and restoration	square metre	50	\$ 36.54	\$ 1,827.00

TOTAL SECTION III

\$ 28,594.78 ✓

SECTION IV - WATERWORKS

ITEM	1
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This section includes all waterworks required to include supply of all materials, excavation, compaction and off-site disposal of surplus excavated material. Imported granular backfill, where ordered, will be paid for under Section V, otherwise payment shall be in accordance with Form V of the General Specifications.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
IV-1	200mm diameter ductile iron watermains	metre	162	\$ 93.14	\$ 15,088.68
IV-2	150mm diameter ductile iron watermains	metre	21	\$ 81.28	\$ 1,706.88
IV-3	Gate valves				
	a) 200mm dia. HxF	each	3	\$ 712.00	\$ 2,136.00
	b) 150mm dia. HxH	each	2	\$ 458.00	\$ 916.00
IV-4	Watermain fittings				
	a) 200F x 200H x 200F Tee	each	1	\$ 437.00	\$ 437.00
	b) 200H x 200H x 200F Tee	each	1	\$ 355.00	\$ 355.00
	c) 200H x 200H x 150H Tee	each	2	\$ 311.00	\$ 622.00
IV-5	Hydrants as per Burnaby standard L.707	each	2	\$ 1618.72	\$ 3,237.44
IV-6	Co-ordinate water main tie-ins by Burnaby work forces	each	3	\$ 2.00	\$ 6.00
TOTAL SECTION IV					\$ 24,505.00

SECTION V - ROADS, CURBS

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Prices for items described shall include equipment and all work incidental to complete drawings and specified herein.

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Item	Description	Unit	Approx. Quantity	Rate	Extended Total
V-1	Subgrade preparation for roads, tolerance \pm 25mm	square metre	2650	\$ 0.27	\$ 715.50
V-2	Fine grading for roads, tolerance \pm 6mm	square metre	2650	\$ 0.27	\$ 715.50
V-3	Supply, place & compact 175mm layer of 40mm minus base course gravel - Kingsborough St. only	square metre	1940	\$ 4.50	\$ 8,730.00
V-4	Supply, place & compact 150mm layer of 40mm minus base course gravel - Cassie St. only	square metre	165	\$ 3.87	\$ 638.55
V-5	Supply, place & compact 75mm layer of 20mm minus surface course gravel - Cassie and Kingsborough St.	square metre	2105	\$ 2.20	\$ 4,631.00
V-6	Supply, place & compact 38mm layer of hot mix asphaltic concrete, Type IV base course, Cassie St. only	square metre	165	\$ 4.20	\$ 693.00
V-7	Supply, place & compact 38mm layer of hot mix asphaltic concrete, Type V, surface course - Cassie St. only	square metre	165	\$ 4.20	\$ 693.00
V-8	Supply, place & compact 102mm layer of hot mix asphaltic concrete, Type IV base course - Kingsborough St. only	square metre	1940	\$ 10.51	\$ 20,389.40
V-9	Supply and install combined curb and gutter Type A c/w granular base	metre	294	\$ 32.00	\$ 9,408.00

<u>Item</u>	<u>Description</u>	<u>Unit</u>			
V-10	Supply and install combined curb and gutter Type A let downs at driveways c/w granular base	metre	20	\$ 32.00	\$ 640.00
V-11	Boulevard grading, tolerance ± 25mm	square metre	1065	\$ 1.00	\$ 1,065.00
V-12	Imported 125mm minus pit run gravel for replacement of unsuitable excavated road subgrade and trench backfill material	cubic metre	300	\$ 23.00	\$ 6,900.00
V-13	Supply & install sidewalks c/w granular base	square metre	80	\$ 26.60	\$ 2,128.00
V-14	Wheel chair ramps extra over sidewalks	each	4	\$ 30.00	\$ 120.00
TOTAL SECTION V					
				\$ 57,466.95	_____

SECTION VI - ORNAMENTAL STREETLIGHTING

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Prices for items described shall include equipment and all work incidental to complete drawings and specified herein. Imports ordered, will be paid for under Section V in accordance with Form V of the General Specifications.

Item	Description	Unit	Approx. Quantity	Rate	Extended Total
VI-1	<u>Concrete bases (Supply & Installation)</u>				
	a) Streetlight pole bases	each	4	\$ 280.00	\$ 1,120.00
	b) Special traffic signal pole bases	each	5	\$ 336.00	\$ 1,680.00
VI-2	<u>Junction Boxes (Supply & Installation)</u>				
	a) type 6 plastic junction boxes (2 section)	each	4	\$ 392.00	\$ 1,568.00
	b) type 7 plastic junction boxes (3 section)	each	4	\$ 500.00	\$ 2,000.00
	c) type 8 plastic junction boxes (3 section)	each	1	\$ 818.00	\$ 818.00
VI-3	<u>Conduits (Supply & Installation)</u>				
	a) 25mm R.PVC conduits	metre	22	\$ 3.35	\$ 73.70
	b) 50mm R.PVC conduits	metre	546	\$ 6.75	\$ 3,685.50
	c) trenching c/w back-filling at road crossings	metre	140	\$ 30.25	\$ 4,235.00
	d) trenching c/w back-filling at boulevards	metre	305	\$ 10.36	\$ 3,159.80
	e) pavement cutting & restoration	metre	30	\$ 68.35	\$ 2,050.50
VI-4	<u>Conductors (Supply & Installation)</u>				
	a) 2 No. 6 TWH feeders & 1 No. 8 TWH grd.	metre	159	\$ 5.60	\$ 890.40
	b) 3 No. 6 TWH feeders & 1 No. 8 TWH grd.	metre	180	\$ 6.16	\$ 1,108.80
VI-5	<u>Poles (Supply & Installation) Primed & Painted c/w Internal Wiring & Fusing</u>				
	a) 9.14m streetlight poles	each	6	\$ 862.40	\$ 5,174.40

Item Description Unit

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VI-6 Luminaries (Supply & Installation)

a) 250W H.P.S. luminaires & lamps

each 5 \$ 269.00 \$ 1,345.00

VI-7

Misc. Equipment (Supply & Installation)

a) pole caps & pole base adaptors

each 5 \$ 185.00 \$ 925.00

VI-8

Relocations

a) relocate existing pole & base

each 1 \$ 112.00 \$ 112.00

b) relocate existing plastic junction boxes

each 1 \$ 90.00 \$ 90.00

TOTAL SECTION VI

\$ 30,036.10 ✓

SECTION VII - UNDERGROUND ELECTRICAL

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Prices for items described shall include equipment and all work incidental to complete drawings and specified herein. Imported granular backfill ordered, will be paid for under Section V, otherwise payment shall be in accordance with Form V of the General Specifications.

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Item	Description	Unit	Approx. Quantity	Rate	Extended Total
VII-1	Supply and install B.C. Telephone ducts in common trench with B.C. Hydro ducts	metre			
	a) 6-100mm ducts	metre	30	\$ 55.00	\$ 1,650.00
	b) 4-100mm ducts	metre	42	\$ 44.00	\$ 1,848.00
	d) 2-100mm ducts	metre	75	\$ 29.00	\$ 2,175.00
	e) 1-100mm ducts	metre	30	\$ 21.25	\$ 637.50
VII-2	Installation only of B.C. Hydro ducts in common trench with B.C. Tel ducts				
	a) 9-100mm ducts	metre	37	\$ 23.50	\$ 869.50
	b) 6-100mm ducts	metre	99	\$ 21.30	\$ 2,108.70
	c) 5-100mm ducts	metre	10	\$ 19.00	\$ 190.00
	d) 4-100mm ducts	metre	2	\$ 19.00	\$ 38.00
	e) 3-100mm ducts	metre	35	\$ 18.00	\$ 630.00
	f) 2-100mm ducts	metre	8	\$ 18.00	\$ 144.00
VII-3	Installation only of 3.5m x 2.0m x 2.5m B.C. Tel Manhole	each	1	\$ 3920.00	\$ 3,920.00
VII-4	Installation only of 2.4m x 4.2m B.C. Hydro Manhole	each	1	\$ 3920.00	\$ 3,920.00
VII-5	Installation only of B.C. Hydro 1.83m x 3.67m J-Boxes	each	2	\$ 1120.00	\$ 2,240.00
VII-6	Installation only of B.C. Hydro 1.83m x 1.83m switching kiosk concrete base	each	1	\$ 560.00	\$ 560.00
TOTAL SECTION VII					\$ 20,930.70

SECTION VIII - CONTINGENCY

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The contingency allowance in this project may be required for which unit prices have not been established.

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.

<u>Item</u>	<u>Description</u>	<u>Unit</u>	<u>Approx. Quantity</u>	<u>Rate</u>	<u>Extended Total</u>
VIII-1	Contingency Work	Provisional Sum			\$ <u>15,000.00</u>

TOTAL SECTION VIII

\$ 15,000.00 ✓

THE CORPORATION OF THE DISTRICT

CONTRACT NO. 8820

TENDER SUMMARY

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Site Preparation	SECTION I	114	\$ 22,800.65 ✓
Storm Sewers	SECTION II		\$ 25,747.86 -
Sanitary Sewers	SECTION III		\$ 28,594.78 ✓
Waterworks	SECTION IV		\$ 24,505.00 -
Roads, Curbs and Walks	SECTION V		\$ 57,466.95 ✓
Ornamental Streetlighting	SECTION VI		\$ 30,036.10 -
Underground Electrical and Telephone	SECTION VII		\$ 20,930.70 -
Contingency Work	SECTION VIII		\$ 15,000.00 ✓

TOTAL TENDER

\$ 225,082.04 ✓

Extensions and Additions Circled
And Found to be Correct.

TENDERER: Jack Cewe Ltd.



M. Killingsworth,
General Manager, Construction.