

ITEM	5
MANAGER'S REPORT NO.	45
COUNCIL MEETING	1979 06 25

RE: TENDERS CONTRACT #7901 NORLAND, GORING & PHILLIPS
ROAD CONSTRUCTION, STORM SEWERS AND STREET LIGHTING

The following is a report from the Purchasing Agent regarding tenders for Norland, Goring & Phillips Road Construction, Storm Sewers and Street Lighting.

RECOMMENDATION:

1. THAT the recommendation of the Purchasing Agent be adopted.

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TO: MUNICIPAL MANAGER

DATE: 1979 June 19

FROM: PURCHASING AGENT

RE: TENDERS CONTRACT #7901 NORLAND, GORING & PHILLIPS
ROAD CONSTRUCTION, STORM SEWERS AND STREET LIGHTING

RECOMMENDATION:

1. THAT the lowest tender in the amount of \$590,532.00 submitted by S.L. Paving Limited be accepted with final payment to be based on the actual quantities and unit prices tendered.

REPORT

Tenders for this project were received up to 1500 h local time on Monday, 1979 June 18th.

The work includes clearing and grubbing, earth moving and the supply and installation of materials for roadway reconstruction, storm sewers and street lighting.

Approximate quantities involved are:

Earth moving	27,000 cu. metres
Storm sewers, 450 mm dia. to 750 mm dia.	450 metres
Imported granular materials	8,000 tonnes
Curb and gutter	2,000 metres
7-metre and 14-metre roadways	1,100 metres
Street lighting	1,100 metres

Location of the work:

1. Norland Avenue between Laurel Street and Sprout Street
2. Goring Street between Douglas Road and Holdom Avenue
3. Phillips Avenue

Funds for this project are included in the 1979 Capital Budget.

The Corporation will make an equitable adjustment to contract unit prices where the asphalt work is affected by the following defined energy related material changes in price.

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During the contract term, the Contractor shall advise the Engineer in writing of any changes in the manufacturer's posted published prices, including Federal Excise Tax. The Unit prices of asphaltic concrete mix shall be adjusted for payment purposes using the following proportions as a basis of calculation:

Liquid Asphalt	- 6% Liquid Asphalt by weight
Heating Oil	- 15 litres per tonne of asphaltic mix supplied
Natural Gas	- 581.5 MJ (Megajoules) per tonne of asphaltic concrete mix supplied
Propane, Butane	- 30.07 litres per tonne of asphaltic concrete mix supplied

The Contractor shall list with his tender the posted prices, rates or tariffs of each of the above materials together with a list showing his plants to be used and the materials used at each plant.

Changes in costs of other energy sources such as electricity, gasoline, lube oil, diesel fuel for trucks shall be allowed for in the Contractor's unit prices and shall not be paid for by the Corporation.

The Engineer's estimate of the total work bid under this contract is \$622,655.25

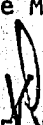
All the work included in this contract shall be completed within fifty (60) consecutive working days after execution of an agreement.

Nine (9) tenders were received and opened in the presence of Messrs. R. Constable, J. Hagen and representatives of the firms bidding.

A tabulation of the tenders received is attached.

A copy of the schedule of approximate quantities coupled with the unit prices submitted by the lowest bidder, S.L. Paving Limited is also attached.

The Municipal Engineer concurs with the recommendation.


K.F. Williams,
PURCHASING AGENT.

KFW/gbw

c.c. Municipal Clerk
Municipal Engineer

Encl.

THE CORPORATION OF THE DISTRICT OF BURNABY
TABULATION OF TENDERS FOR
CONTRACT #7901
NORLAND, GORING & PHILLIPS ROAD CONSTRUCTION,
STORM SEWERS & STREET LIGHTING

PURCHASING DEPARTMENT
1979 June 18

NO.	COMPANY	TOTAL
1	Unger Construction Co. (1976) Ltd.	\$ 628,171.64
2	A & G Construction Ltd.	699,407.11
3	Standard General Construction B.C. Ltd.	635,962.50
4	H.B. Contracting Ltd.	796,073.70
5	Imperial Paving Ltd.	683,908.60
6	F.W. Monssen Construction Ltd.	645,506.62
7	S.L. Paving Limited	590,532.00
8	United Contractors Ltd.	639,863.28
9	Jack Cewe Ltd.	626,486.62

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THE CORPORATION OF THE DISTRICT OF BURNABY

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES

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CONTRACT #7901

STORM SEWERS, LOCAL IMPROVEMENT WORK (NORLAND AVE. AND GORING ST.) AND PHILLIPS DIVERSION, INCLUDING STREET LIGHTING

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 or deductions and shall include the supply of all materials, labour, equipment and plant for complete installation or construction of items specified below.

ALL QUOTATIONS MUST BE TYPEWRITTEN

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 to qualify for payment under this section. Unit prices for common excavation are to include cutting or filling subgrades to approximate design grades.

Item	Description	Unit	Quantity	Rate	Total
1.	Clearing and Grubbing (see Special Provisions, Clause 11)				
	(a) Clearing and grubbing - payment to be made per Section 40 - General Conditions		Provisional Sum		\$4,000 ✓
	(b) Clearing and grubbing on Phillips Ave. from south end of project up to and including a portion of Aubrey Street.	hectare	2.0	13,750.00	27,500.00 ✓
	(c) Clearing and grubbing on north side of Graystone Ave.	hectare	0.47	13,300.00	6,251.00 ✓
	(d) Clearing only - future Ardingley right-of-way	hectare	0.3	10,400.00	3,120.00 ✓
	(e) Danger trees	each	10	133.00	1,330.00 ✓
				TOTAL	42,201.00 ✓
2.	Common Excavation (see Special Provisions, Clause 12)				
2. (a)	Excavate and remove peat from Phillips Ave. between approximately Sta. 2 + 70 and Sta. 3 + 80:				
	(i) Place along cleared area ("Area B") on north side of Graystone to be used for future berm	cubic metre	4,000	2.22	8,880.00 ✓

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Section I - Site Preparation

Item	Description	Unit	Quantity	Rate	Total
	(ii) Dispose at Stride Ave. pit or other approved location selected by the Contractor	cubic metre	1,500	4.80	7,200.00 ✓
2. (b)	Excavate and remove topsoil and other common materials from the east only portion of Phillips Ave. and dispose as directed:				
	(i) Material to be moved within the Phillips contract area, including "Areas, A, B and C"	cubic metre	6,500	2.22	14,430.00 ✓
	(ii) Excess material to be disposed of away from the site	cubic metre	1,000	4.80	4,800.00 ✓
2. (c)	Load surcharge material on Norland Ave. between Laurel and Sprott down to sub-base grade and to side slopes of four horizontal to one vertical	cubic metre	14,000	0.75	10,500.00 ✓
2. (d)	Hauling, placing and compacting granular surcharge material from Norland Ave.				
	(i) To Phillips Ave. to fill void created by peat excavation	cubic metre	5,500	3.80	20,900.00 ✓
	(ii) To Phillips Ave. to form sub-base	cubic metre	3,700	4.20	15,540.00 ✓
	(iii) To Goring St. between Douglas and Holdom to create shoulders	cubic metre	1,800	1.50	2,700.00 ✓
	(iv) To waste	cubic metre	1,500	3.48	5,220.00 ✓
	(v) To extension of new Ardingley right-of-way or below subgrade (see Clause 12 of Special Provisions)	cubic metre	5,500	1.14	6,270.00 ✓
2. (e)	Excavation and loading of granular material below sub-base elevation per Clause 12(h), Special Provisions	cubic metre	4,000	1.12	4,480.00 ✓

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Section I - Site Preparation

Item	Description	Unit	Quantity	Rate	Total
2. (f)	Common excavation for roadways, sidewalks, curb and gutters and boulevards, Clause 12(i) Special Provisions. This item to apply only to that material requiring excavation on Goring St., Douglas to Holdom, and Aubrey St. within the limits of the contract.	cubic metre	2,200	5.90	12,980.00 ✓
3.	Rubble excavation to include cutting and removal of asphalt or concrete pavement, curbs, sidewalks, curb and gutters, masonry works and retaining walls, see Clause 14, Special Provisions	cubic metre	200	9.00	1,800.00 ✓
4.	Rock excavation. See Clause 15, Special Provisions	cubic metre	15	80.00	1,200.00 ✓
5.	Hand excavation - payment to be made per Section 40 - General Conditions. See Clause 16, Special Provisions		Provisional Sum		\$2,000 ✓
6.	Removal of existing drains including disposal or salvage as directed. See Clause 17, Special Provisions.	cubic metre	215	8.80	1,892.00 ✓
TOTAL					162,993.00 ✓

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Section II - Grading

This section includes all grading of street, curb and gutter, sidewalks 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.

	Unit	Quantity	Rate	Total	
7. (a)	Boulevard grading ± 25 mm in preparation to receive topsoil. See Clause 18 (a) Special Provisions	sq. metre	11,500	0.68	7,820.00 ✓
(b)	Shaping and grading berms - Phillips Ave. ± 150 mm. See Clause 18 (b), Special Provisions.	sq. metre	1,600	0.90	1,440.00 ✓

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Section II - Grading

Item	Description	Unit	Quantity	Rate	Total
8.	Subgrade grading, shaping and compacting for curb and gutter, walks, roadways and driveways. See Clause 19, Special Provisions	sq. metre	21,000	0.34	7,140.00 ✓
9.	Grading and compaction of gravel base for curb and gutter ± 6 mm of design grade and 0.3 metre wider than structure. See Clause 20, Special Provisions	sq. metre	2,150	0.54	1,161.00 ✓
10.	Grading and compaction of gravel base for walk or curbside ± 6 mm of design grade and 0.3 metre wider than structure. See Clause 21, Special Provisions	sq. metre	30	3.00	90.00 ✓
11.	Grading and compaction of gravel base materials for roadways in preparation for paving ± 6 mm design grade. See Clause 22 (a) Special Provisions	sq. metre	13,900	0.30	4,170.00 ✓
12.	Grading and compaction of gravel base materials for driveways in preparation for paving ± 6 mm of design grade. See Clause 22 (b) Special Provisions	sq. metre	270	3.00	810.00 ✓
TOTAL					22,631.00 ✓

Section III - Storm Sewers

This section includes all drainage 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.

	Unit	Quantity	Rate	Total		
Main Line Sewer						
Supply and install sewer pipe. Depths given are to pipe invert. See Clause 23, Special Provisions.						
Phillips Avenue:						
13. (a)	450 mm dia., 0-2 m deep	metre	60	71.70	4,302.00 ✓	
	(b)	450 mm dia., 2-3 m deep	metre	31	78.20	2,424.20 ✓
14. (a)	525 mm dia., 0-2 m deep	metre	90	71.70	6,453.00 ✓	
	(b)	525 mm dia., 2-3 m deep	metre	22	76.80	1,689.60 ✓

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Section III - Storm Sewers

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Item	Description	Unit	Quantity	Rate	Total
15. (a)	600 mm Cl. IV, 0-2 m deep	metre	25	82.40	2,060.00 ✓
(b)	600 mm Cl. IV, 2-3 m deep	metre	5	84.60	423.00 ✓
16. (a)	750 mm Cl. IV, 0-2 m deep	metre	90	91.40	8,226.00 ✓
(b)	750 mm Cl. IV, 2-3 m deep	metre	10	94.00	940.00 ✓
17.	Manholes				
(a)	1,500 mm dia.	vert. metre	1.5	814.80	1,222.20 ✓
(b)	1,050 mm dia.	vert. metre	4.5	544.00	2,448.00 ✓
18.	Miscellaneous main line requirements, Phillips Ave.				
(a)	Remove existing M.H. 1	each	1	118.00	118.00 ✓
(b)	Remove and salvage existing 600 mm dia. pipe between M.H. 1 and proposed M.H. 1.1	metre	6	27.00	162.00 ✓
(c)	Remove and relay existing 600 mm dia. pipe upstream of proposed M.H. 1.1 to meet proposed invert to north	metre	7.5	53.80	403.50 ✓
(d)	600 mm dia. 30° bend	each	1	101.00	101.00 ✓
(e)	750 mm dia. 22½° bend	each	1	194.00	194.00 ✓
(f)	Remove sand bags from existing temporary outlet near Kitchener	lump sum	-	40.00	40.00 ✓
(g)	Tie into existing 450 mm dia. pipe near Kitchener	lump sum	-	166.00	166.00 ✓
	Norland Avenue:				
19. (a)	600 mm dia. C.S.P. 14 gauge	metre	37	110.00	4,070.00 ✓
(b)	750 mm dia. C.S.P. 12 gauge	metre	39	158.00	6,162.00 ✓
20.	M.H. #1 complete, including 750 mm x 750 mm x 750 mm tee, concrete cover and casting for H2O loading	each	1	1065.00	1,065.00 ✓
21. (a)	750 mm dia. C.S.P. 80° bend, 12 gauge	each	1	211.00	211.00 ✓
(b)	750 mm x 750 mm x 600 mm dia. 14 gauge C.S.P. Tee complete	each	1	180.00	180.00 ✓

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Section III - Storm Sewers

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Item	Description	Unit	Quantity	Rate	Total
29.	Catch Basin Leads - Supply and Install - See Special Provisions Clause 29:				120
(a)	150 mm dia. 0-2 m deep	metre	100	41.30	4,130.00 ✓
(b)	150 mm dia. over 2 m deep	metre	40	45.20	1,808.00 ✓
(c)	200 mm dia. 0-2 m deep	metre	80	42.50	3,400.00 ✓
(d)	200 mm dia. over 2 m deep	metre	20	48.35	967.00 ✓
30.	Relocate existing catch basins - see Special Provisions Clause 28	each	1	200.00	200.00 ✓
31.	Exchange catch basin gratings	each	1	21.00	21.00 ✓
32.	Remove or abandon existing catch basins	each	5	54.00	270.00 ✓
33.	Rock excavation in trenches - blasting, excavation and disposal of solid rock where ordered	cu. metre	5	100.00	500.00 ✓
34.	Supply and Install Drain Tile including Drain Rock and Filter Bed - see Special Provisions Clause 30:				
(a)	100 mm dia.	metre	300	11.20	3,360.00 ✓
(b)	150 mm dia.	metre	50	13.00	650.00 ✓
35.	Concrete Cradling - Supply and placement of concrete cu. cradling where ordered	metre	5	88.80	444.00 ✓
36.	Concrete Jacketing - Supply and placement of concrete jacketing where ordered	cu. metre	2	88.50	177.00 ✓
37.	Culverts and Headwalls - Unit prices to include all labour, materials and equipment necessary for the work:				
(a)	900 mm dia. Cl. IV concrete culverts at approximately Sta. 2+90 on Phillips Ave. See Clauses 31 and 32, Special Provisions	metre	75	122.00	9,150.00 ✓
(b)	Concrete inlet structure for the culverts required at approximately Sta. 2+90 complete, including the gratings as detailed on the drawings	Lump sum		10,000.00	10,000.00 ✓

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Section III - Storm Sewers

Item	Description	Unit	Quantity	Rate	Total
(c)	Concrete outlet structure for the culverts required at approximately Sta. 2 + 90, complete, as detailed on the drawings	lump sum	-	6,028.30	6,028.30 ✓
(d)	Supply and install 900 mm dia. C.S.P. culvert at approximately Sta. 4 + 70 on Norland Avenue	metre	30.5	173.40	5,288.70 ✓
(e)	Supply and install 300mm dia. C.S.P. culvert under future Ardingley right-of-way	metre	104	55.75	5,798.00 ✓
(f)	Salvage existing 900 mm dia. culvert at approximately Sta. 4+70 on Norland Avenue	metre	25	14.80	370.00 ✓
(g)	Re-install 900 mm dia. culvert salvaged in item 37 (d) across Ardingley if required	metre	25	61.90	1,547.50 ✓
38.	Ditching as and where required				
(a)	0. to 0.5 metre deep	metre	125	4.00	500.00 ✓
(b)	0.5 to 1.0 metre deep	metre	240	7.00	1,680.00 ✓
(c)	1.0 to 1.5 metre deep	metre	90	27.20	2,448.00 ✓
TOTAL					128,916.00 ✓

Section IV - Adjustments of Existing Appurtenances

The unit prices given for the items in this section shall include all labour and materials required to adjust the various fixtures to finished design grades and/or alignment - See Clause 33, Special Provisions.

Item	Description	Unit	Quantity	Rate	Total
39.	Manhole covers	each	4	150.00	600.00 ✓
40.	Valve box covers	each	5	20.00	100.00 ✓
41.	Catch basin grates	each	2	113.00	226.00 ✓
42.	Street lighting junction boxes.	each	1	60.00	60.00 ✓
TOTAL					986.00 ✓

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Section V - Supply of Gravel, Topsoil and Hog Fuel 122

Unit prices for the following items are to include the supply, transportation and placing costs of the various aggregates, topsoil and hog fuel in accordance with Forms VII and XII of the General Specifications and the Special Provisions.

Item	Description	Unit	Quantity	Rate	Total
43.	Pit Run gravel for road and sidewalk construction	tonne	2,000	5.20	10,400.00 ✓
44.	75 mm minus crushed gravel	tonne	600	5.20	3,120.00 ✓
45.	20 mm minus crushed gravel	tonne	3,500	6.80	23,800.00 ✓
46.	Pit run gravel behind retaining walls or other confined fill areas.	tonne	50	12.00	600.00 ✓
47.	Imported granular backfill for sewer trench, where ordered, including compaction	tonne	700	4.50	3,150.00 ✓
48.	Topsoil to a compacted depth of 100 mm on boulevards or as ordered	cu. metre	1,000	13.00	13,000.00 ✓
49.	Hog Fuel - See Special Provisions Clause 34	cu. metre	8,500	1.78	15,130.00 ✓
TOTAL					69,200.00 ✓

Section VI - Portland Cement Concrete Curbs, Walks, Steps, Driveways and Walls

The following items cover all Portland Cement concrete work for the project streets. The unit prices are not to include excavation, grading or required aggregate base materials as these items will be paid for under Section I, Section II and Section V.

Item	Description	Unit	Quantity	Rate	Total
50.	Combined curb and gutter Type A or AX, curved or straight including vertical adjustment of catch basins.	metre	2,125	13.30	28,262.50 ✓
51.	Sidewalks separate from curb and gutter	sq. metre	10	20.00	200.00 ✓
52.	Connector walks	sq. metre	10	20.00	200.00 ✓
53.	Concrete driveways - 140 mm thickness	sq. metre	10	42.00	420.00 ✓
54.	Steps and Risers (See Special Provisions Clause 36)	Riser metres	15	70.10	1,051.50 ✓
55.	Retaining walls and wing walls for steps	cu. metres	2	300.00	600.00 ✓
TOTAL					30,734.00 ✓

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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. See Clause 38, Special Provisions.

Item	Description	Unit	Quantity	Rate	Total
56.	Clean existing pavement and fill cracks	Sq. metre	800	0.10	80.00 ✓
57.	Tack Coat	Sq. metre	800	0.15	120.00 ✓
58.	Asphaltic concrete Type IV	tonne	3,000	19.40	58,200.00 ✓
59.	Asphaltic concrete Type V machine laid	tonne	2,250	20.00	45,000.00 ✓
60. (a)	Asphaltic concrete Type V hand laid	tonne	175	30.00	5,250.00 ✓
(b)	Extruded asphalt curb	metre	140	6.50	910.00 ✓
TOTAL					109,560.00 ✓

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 materials, installation and backfilling for the items listed. Granular backfill and pavement cutting and patching are not to be included as these items will be paid for under Section V and Section VII. See Clause 39, Special Provisions.

Item	Description	Unit	Quantity	Rate	Total
61.	Supply and install P.V.C. Conduit				
(a)	50 mm diameter	metre	30	8.20	246.00 ✓
(b)	32 mm diameter	metre	1,720	5.65	9,718.00 ✓
	Supply and install wires from service poles to all lamp bases				
62.	2 - #6 T.W.H. feeders with T.W.H. green ground	metre	306	4.15	1,269.90 ✓
63.	3 - #6 T.W.H. feeders with 1 - #6 T.W.H. green ground	metre	1,415	5.18	7,329.70 ✓
64. (a)	Pole Base - Supply and install concrete bases as per Dwg. L-736 and/or L-1160, including anchor bolts and conduit bends and wires. See Special Provisions Clause 40.	each	8	106.00	848.00 ✓
(b)	Pole Base - Supply and install concrete bases as per Dwg. L-736A including anchor bolts and conduit bends and wires. See Special Provisions Clause 40.	each	18	252.00	4,536.00 ✓
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Section VIII - Street Lighting Appurtenances

Item	Description	Unit	Quantity	Rate	Total
65.	Supply and Install Poles See. Clause 41 - Special Provisions				124
(a)	9.14 metre poles	each	25	326.00	8,150.00 ✓
(b)	8.23 metre poles with distribution base	each	1	638.00	638.00 ✓
66.	Supply and install fuse and terminal block on each pole and wiring to each luminaire	each	26	21.50	559.00 ✓
67.	Supply and Install Luminaires and Lamps (Clause 14, General Specifications Form IV).				
(a)	400 watt polycarbonate or wire guarded Mercury Vapour	each	10	185.40	1,854.00 ✓
(b)	150 watt H.P.S., lamp and ballast in 250 watt H.P.S. I.E.S. Type 3 M.S.C. dist. housing	each	16	193.00	3,088.00 ✓
68.	Supply and Install Junction Boxes including Conduit, Conduit bends and Wires. Standard Drawing L-1695 Type I	each	5	50.00	250.00 ✓
69.	Supply and install all wiring, conduit, panels, etc., as per Dwg. L-738 at service pole 240/480	each	1	880.00	880.00 ✓
70.	Supply and install photo-cells on service panels and/or on luminaires	each	2	31.50	63.00 ✓
71.	Supply and install all wiring, conduit, enclosures, etc., for distribution bases as per Std. Drawing L-1149	each	1	1082.40	1,082.40 ✓
TOTAL					40,512.00 ✓

Section IX - Contingency Work

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

Item	Description	Unit	Quantity	Rate	Total
	Contingency Work payment to be made per Section 40, General Conditions		Provisional Sum		\$25,000/