

FORM A: BID
(See B10)

1. Contract Title WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB:
CONTRACT 2 – UNDERPASS STRUCTURE, RAILWORKS,
ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND
LANDSCAPING WORKS

2. Bidder

Name of Bidder

Usual Business Name of Bidder as it appears on Invoice (if different from above)

Street

City

Province

Postal Code

Email Address of Bidder

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

GST Registration Number (if applicable)

(Choose one)

The Bidder is:

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent
the Bidder for purposes of the Bid.

Contact Person

Title

Telephone Number

Facsimile Number

4. Definitions

All capitalized terms used in the Contract shall have the meanings
ascribed to them in the General Conditions and D3.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the Total Bid Price, in Canadian funds, set out on Form B: Prices, appended hereto.

6. Bid Security In accordance with B15.1, the Bidder encloses bid security in the form of:

(Choose one)

- a bid bond (Form G1: Bid Bond and Agreement to Bond)
- an irrevocable standby letter of credit (Form G2: Irrevocable Standby Letter of Credit and Undertaking)
- a certified cheque or draft

and agrees that it shall be held by the City in accordance with the Contract.

7. Execution of Contract The Bidder agrees to execute and return the Contract no later than seven (7) Calendar Days after receipt of the Contract, in the manner specified in C4.

8. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.

9. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

10. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No. _____ Dated _____

11. Time This offer shall be open for acceptance, binding and irrevocable for a period of Ninety (90) Calendar Days following the Submission Deadline.

12. Signatures

The Bidder or the Bidder's authorized official or officials have signed this

_____ day of _____, 20_____.

Signature of Bidder or
Bidder's Authorized Official or Officials

(Print here name and official capacity of individual whose signature appears above)

(Print here name and official capacity of individual whose signature appears above)

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
A	<u>WILKES INTERSECTION-SURFACE WORKS</u>					
	EARTH AND BASE WORKS					
A.1	Common Excavation	CW 3110-R19 E19	m ³	2,110		
A.2	Roadway Excavation	CW 3110-R19 E19	m ³	9,920		
A.3	Sub-Grade Compaction	CW 3110-R19	m ²	13,400		
A.4	Crushed Sub-base Material	CW 3110-R19				
	i) 50 mm - Limestone		tonne	7,110		
	ii) 100 mm - Limestone		tonne	180		
	iii) 150 mm - Limestone		tonne	14,400		
A.5	Supplying and Placing Base Course Material	CW 3110-R19	m ³	1,040		
A.6	Grading of Boulevards	CW 3110-R19 E19	m ²	6,230		
A.7	Ditch Grading	CW 3110-R19 E19	m ²	850		
A.8	Removal of Existing Concrete Bases	CW 3110-R19				
	i) 600 mm Diameter or Less		each	8		
A.9	Separation Geotextile Fabric	CW 3130-R4	m ²	13,400		
	ROADWORKS - RENEWALS					
A.10	Pavement Removal	CW 3110-R19				
	i) Concrete Pavement		m ²	3,710		
	ii) Asphalt Pavement		m ²	1,840		
A.11	Slab Replacement	CW 3230-R8				
	i) 250 mm Concrete Pavement (Plain-Dowelled)		m ²	175		
	ii) 200 mm Concrete Pavement (Plain-Dowelled)		m ²	25		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
A.12	Partial Slab Patches	CW 3230-R8				
i)	200 mm Concrete Pavement (Type A)		m ²	4		
ii)	200 mm Concrete Pavement (Type B)		m ²	135		
iii)	200 mm Concrete Pavement (Type C)		m ²	15		
iv)	200 mm Concrete Pavement (Type D)		m ²	40		
A.13	Slab Replacement - Early Opening (24 hour)	CW 3230-R8				
i)	150 mm Concrete Pavement (Reinforced)		m ²	130		
A.14	Partial Slab Patches - Early Opening (24 hour)	CW 3230-R8				
i)	200 mm Concrete Pavement (Type A)		m ²	30		
ii)	200 mm Concrete Pavement (Type B)		m ²	60		
A.15	Partial Depth Planing of Existing Joints	E25	m ²	40		
A.16	Asphalt Patching of Partial Depth Joints	E25	m ²	40		
A.17	Drilled Dowels	CW 3230-R8				
i)	19.1 mm Diameter		each	330		
A.18	Drilled Tie Bars	CW 3230-R8				
i)	20 M Deformed Tie Bar		each	460		
A.19	Miscellaneous Concrete Slab Removal	CW 3235-R9				
i)	Monolithic Median Slab		m ²	80		
ii)	100 mm Sidewalk		m ²	1,300		
iii)	Bullnose		m ²	60		
A.20	Miscellaneous Concrete Slab Installation	CW 3235-R9				
i)	Bullnose	SD-227C	m ²	40		
A.21	Miscellaneous Concrete Slab Renewal	CW 3235-R9				
i)	Bullnose	SD-227C	m ²	65		
A.22	Concrete Curb Removal	CW 3240-R10				

FORM B: (R1) PRICES
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UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
i)	Barrier Curb Separate		m	1,400		
ii)	Barrier Curb Integral		m	100		
iii)	Curb Ramp		m	50		
iv)	Splash Strip Monolithic		m	800		
A.23	Concrete Curb Renewal	CW 3240-R10				
A.24	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	30		
A.25	Miscellaneous Concrete Slab Removal	CW 3235-R9				
i)	100 mm Sidewalk		m ²	1,300		
A.26	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	1,700		
ii)	Tie-ins and Approaches					
a)	Type IA		tonne	180		
A.27	Asphalt Patching of Miscellaneous Concrete	E26	m ²	110		
A.28	Planing of Pavement	CW 3450-R6				
i)	1 - 50 mm Depth (Asphalt)		m ²	700		
ii)	50 - 100 mm Depth (Asphalt)		m ²	700		
iii)	1 - 50 mm Depth (Concrete)		m ²	80		
A.29	Detectable Warning Surface Tiles	CW 3326-R3	each	50		

FORM B: (R1) PRICES
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UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	ROADWORKS - NEW CONSTRUCTION					
A.30	Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17				
i)	Construction of 230 mm Concrete Pavement (Plain-Dowelled) Slip Form Paving		m ²	8,800		
ii)	Construction of 200 mm Concrete Pavement (Plain-Dowelled)		m ²	2,450		
iii)	Construction of 200 mm Concrete Pavement (Plain-Dowelled, Tinted)	E24	m ²	40		
iv)	Construction of Monolithic Concrete Median Slabs	SD-226A	m ²	900		
v)	Construction of Monolithic Concrete Bull-noses	SD-227C	m ²	100		
A.31	Transit Shelter Foundations	E21	m ²	15		
A.32	Concrete Curbs, Curb and Gutter, and Splash Strips	CW 3310-R17				
i)	Construction of Modified Barrier (180 mm ht, Dowelled)	SD-203B	m	300		
ii)	Construction of Modified Barrier Curb And Gutter (180 mm ht, Integral)	SD-203B E30	m	1,300		
iii)	Pinned Barrier Curb	SD-205 E30	m	100		
iv)	75 mm Lip Curb and Gutter	SD-202A E30	m	75		
v)	Construction of Curb Ramp (8-12 mm ht, Monolithic)	SD-229C	m	130		
vi)	Construction of Splash Strip (180 mm ht, Monolithic Barrier Curb, 750 mm width) Slip Form Paving	SD-223A	m	530		
vii)	Construction of Splash Strip, (Separate, 600 mm width)	SD-223B	m	1,410		
A.33	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	1,740		
A.34	Interlocking Paving Stones Charcoal Holland Paver 60x210x210mm	CW 3330-R5 E27	m ²	20		
A.35	Interlocking Paving Stones Blue Holland Paver 60x105x210mm	CW 3330-R5 E27	m ²	5		
A.36	Directional Tactile Strip	E28	m	100		

FORM B: (R1) PRICES
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UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	JOINT AND CRACK SEALING					
A.37	Reflective Crack Maintenance	CW 3250-R7	m	1,100		
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
A.38	Replacing Existing Manhole and Catch Basin Frames & Covers	CW 2130-R12				
i)	AP-004 - Standard Frame for Manhole and Catch Basin		each	1		
ii)	AP-005 - Standard Solid Cover for Standard Frame		each	1		
iii)	AP-006 - Standard Grated Cover for Standard Frame		each	1		
A.39	Installation of Subdrains	CW 3120-R4	m	270		
	ADJUSTMENTS					
A.40	Adjustment of Catch Basins / Manholes Frames	CW 3210-R7	each	2		
A.41	Replacing Existing Risers	CW 2130-R12				
i)	Pre-cast Concrete Risers		vert. m	1.0		
ii)	Brick Risers		vert. m	1.0		
iii)	Cast-in-place Concrete		vert. m	1.0		
A.42	Lifter Rings	CW 3210-R7				
i)	38 mm		each	1		
ii)	51 mm		each	4		
iii)	64 mm		each	1		
iv)	76 mm		each	1		
A.43	Adjustment of Valve Boxes	CW 3210-R7	each	9		
A.44	Valve Box Extensions	CW 3210-R7	each	7		
A.45	Adjustment of Curb Stop Boxes	CW 3210-R7	each	3		
A.46	Adjustment of Traffic Signal Service Box Frames	CW 3210-R7	each	2		
	ACTIVE TRANSPORTATION PATHWAY					

FORM B: (R1) PRICES
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UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
A.47	Excavation	CW 3110-R19	m ³	560		
A.48	Removal of Existing Asphalt	CW 3110-R19	m ²	870		
A.49	Sub-Grade Compaction	CW 3110-R19	m ²	3,500		
A.50	Crushed Sub-base Material	CW 3110-R19				
i)	50 mm - Limestone		tonne	1,120		
A.51	Supplying and Placing Base Course Material	CW 3110-R19	m ³	350		
A.52	HaTelit C	E22	m ²	320		
A.53	Separation Geotextile Fabric	CW 3130-R4	m ²	3,500		
A.54	100 mm Concrete Sidewalk	CW 3325-R5 SD-228A E20	m ²	1,020		
A.55	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	530		
A.56	Construction of Asphaltic Concrete Base Course (Type III)	CW 3410-R11	tonne	40		
A.57	Asphalt Rumble Strip	E32	m	320		
A.58	Reflective Crack Maintenance	CW 3250-R7	m	100		
LANDSCAPING						
A.59	Clearing and Grubbing	CW 3010-R4 E16				
i)	Clearing and Grubbing	CW 3010-R4 E16	ha	0.05		
ii)	Tree Removal	E16	each	10		
A.60	Chain Link Fence Removal	E42	m	160		
A.61	Fencing	CW 3550-R3 E40				
i)	Chain Link Fencing 3.66 m HT w Barb Wire	E40	m	155		
ii)	Man Gate 1.22 m Wide x 2.44 m High	E40	each	1		
A.62	Sodding	CW 3510-R9 E46				
i)	Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	7,250		

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UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
ii)	Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	858		
A.63	Seeding	CW 3520-R7 E47				
i)	Seed Mix		m ²	1,550		
ii)	Fescue Overs-seed Mix		m ²	7,250		
A.64	Soil Amendments for Seeding	E45	m ²	1,550		
A.65	Plant Material	E48				
i)	Ohio Buckeye (50 mm cal.)		each	4		
ii)	Delta Hackberry (50 mm cal.)		each	4		
iii)	Japanese Tree Lilac (50 mm cal.)		each	3		
A.66	Site Furnishings	E39				
i)	Bench		each	1		
ii)	Waste Receptacle		each	1		
A.67	Interlocking Paving Stones	CW 3335-R1	m ²	9		
A.68	Lean Concrete Base	CW 3335-R1	m ²	9		
	MISCELLANEOUS					
A.69	Supply and Installation of Crash Attenuation Barrier	E36	each	2		
A.70	Supply and Place Crash Attenuation Barrels	E37	each	9		
A	<u>WILKES INTERSECTION-SURFACE WORKS</u>				Subtotal:	

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
B	<u>BGSA-SURFACE WORKS</u>					
	EARTH AND BASE WORKS					
B.1	Common Excavation	CW 3110-R19 E19	m ³	91,360		
B.2	Roadway Excavation	CW 3110-R19 E19	m ³	31,210		
B.3	Sub-Grade Compaction	CW 3110-R19	m ²	32,200		
B.4	Crushed Sub-base Material	CW 3110-R19				
	i) 50 mm - Limestone		tonne	14,250		
	ii) 100 mm - Limestone		tonne	3,840		
	iii) 150 mm - Limestone		tonne	43,860		
B.5	Supplying and Placing Base Course Material	CW 3110-R19	m ³	2,830		
B.6	Grading of Boulevards	CW 3110-R19 E19	m ²	22,100		
B.7	Removal of Existing Concrete Bases	CW 3110-R19				
	i) 600 mm Diameter or Less		each	4		
B.8	Separation Geotextile Fabric	CW 3130-R4	m ²	32,200		
B.9	Supply and Install Geogrid	CW 3135-R1	m ²	7,450		
B.10	Fill Material	CW 3170-R3 E19				
	i) Placing Suitable Site Material		m ³	3,400		
	ROADWORKS - RENEWALS					
B.11	Pavement Removal	CW 3110-R19				
	i) Concrete Pavement		m ²	9,900		
	ii) Asphalt Pavement		m ²	9,255		
B.12	Miscellaneous Concrete Slab Removal	CW 3235-R9				
	i) Monolithic Median Slab		m ²	400		
	ii) 100 mm Sidewalk		m ²	1,650		
	iii) Bullnose		m ²	20		
B.13	Concrete Curb Removal	CW 3240-R10				

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
i)	Barrier Curb Separate		m	2,130		
ii)	Barrier Curb Integral		m	300		
iii)	Curb Ramp		m	60		
B.14	Line Painting	E33	m	200		
B.15	Detectable Warning Surface Tiles	CW 3326-R3	each	35		
ROADWORKS - NEW CONSTRUCTION						
B.16	Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17				
i)	Construction of 250 mm Concrete Pavement (Plain-Dowelled)		m ²	165		
ii)	Construction of 230 mm Concrete Pavement (Plain-Dowelled) Slip Form Paving		m ²	13,000		
iii)	Construction of 200 mm Concrete Pavement (Plain-Dowelled)		m ²	830		
iv)	Construction of Monolithic Concrete Median Slabs	SD-226A	m ²	640		
v)	Construction of Concrete Safety Medians	SD-226B	m ²	110		
vi)	Construction of Monolithic Concrete Bull-noses	SD-227C	m ²	40		
B.17	Transit Shelter Foundations	E21	m ²	10		
B.18	Concrete Curbs, Curb and Gutter, and Splash Strips	CW 3310-R17				
i)	Construction of Barrier (180 mm ht, Dowelled)	SD-205	m	200		
ii)	Construction of Barrier (180 mm ht, Separate, Slip Formed)	SD-203A	m	155		
iii)	Modified Barrier Curb and Gutter	SD-203B E30	m	1,330		
iv)	Barrier Curb and Gutter	SD-200 E30	m	850		
v)	75 mm Lip Curb and Gutter	SD-202A E30	m	500		
vi)	Pinned Barrier Curb	SD-203B E30	m	110		
vii)	Construction of Curb Ramp and Gutter	E30	m	13		
viii)	Construction of Curb Ramp (8-12 mm ht, Monolithic)	SD-229C	m	140		
ix)	Construction of Splash Strip (180 mm ht, Monolithic Barrier Curb, 750 mm width)	SD-223A	m	1,200		
x)	Construction of Splash Strip, (Separate, 600 mm width)	SD-223B	m	1,500		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
B.19	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	2,375		
B.20	Interlocking Paving Stones Charcoal Holland Paver 60x210x210mm	CW 3330-R5 E27	m ²	15		
B.21	Interlocking Paving Stones Blue Holland Paver 60x105x210mm	CW 3330-R5 E27	m ²	5		
B.22	Directional Tactile Strip	E28	m	40		
B.23	Construction of Asphaltic Concrete Pavements	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	3,200		
ii)	Tie-ins and Approaches					
a)	Type IA		tonne	125		
B.24	Construction of Asphaltic Concrete Base Course (Type III)	CW 3410-R11	tonne	3,400		
JOINT AND CRACK SEALING						
B.25	Reflective Crack Maintenance	CW 3250-R7	m	350		
ACTIVE TRANSPORTATION PATHWAY						
B.26	Excavation	CW 3110-R19	m ³	1,850		
B.27	Removal of Existing Asphalt	CW 3110-R19	m ²	2900		
B.28	Sub-Grade Compaction	CW 3110-R19	m ²	7,910		
B.29	Crushed Sub-base Material	CW 3110-R19				
i)	50 mm - Limestone		tonne	3,040		
B.30	Supplying and Placing Base Course Material	CW 3110-R19	m ³	610		
B.31	Separation Geotextile Fabric	CW 3130-R4	m ²	7,910		
i)	Construction of Monolithic Curb and Sidewalk	SD-228B E20	m ²	100		
B.32	100 mm Concrete Sidewalk	CW 3325-R5	m ²	2,400		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
B.33	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	1,155		
B.34	Asphalt Rumble Strip	E32	m	920		
B.35	Reflective Crack Maintenance	CW 3250-R7	m	230		
ASSOCIATED DRAINAGE AND UNDERGROUND WORKS						
B.36	Installation of Subdrains	CW 3120-R4	m	1,200		
LANDSCAPING						
B.37	Clearing and Grubbing	CW 3010-R4 E16				
i)	Clearing and Grubbing		ha	0.02		
ii)	Tree Removal		each	80		
B.38	Chain Link Fence Removal	E42	m	730		
B.39	Fencing	CW 3550-R3 E40				
i)	Chain Link Fencing 1.83 m HT		m	255		
ii)	Chain Link Fencing 1.83 m HT w Barb Wire		m	210		
iii)	New Ornamental Fencing		m	5		
iv)	Man Gate 1.22 m Wide x 1.83 m High		each	1		
v)	Chain Link Baseball Backstop		each	1		
vi)	Remove, Salvage and Install Ornamental Fence		m	55		
vii)	Remove, Salvage and Install Wood Fence		m	13		
B.40	Sodding	CW 3510-R9 E46				
i)	Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	20,650		
ii)	Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	1,100		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
B.41	Seeding	CW 3520-R7 E47				
i)	Seed Mix		m ²	11,750		
ii)	Fescue Overs-seed Mix		m ²	20,650		
B.42	Soil Amendments for Seeding	E45	m ²	11,750		
B.43	Planting Beds with Growing Medium (450mm Depth)	E45	m ²	125		
B.44	Wood Chip Mulch	E45	m ²	125		
B.45	Heavy Duty Plastic Landscape Edger	E45	m	60		
B.46	Plant Material	E48				
i)	Colorado Spruce (2.4 m HT)		each	8		
ii)	Baron Manitoba Maple (65 mm cal.)		each	11		
iii)	Silver Maple (65 mm cal.)		each	3		
iv)	Ohio Buckeye (50 mm cal.)		each	12		
v)	Prairie Horizon Alder (50 mm cal.)		each	12		
vi)	Delta Hackberry (50 mm cal.)		each	23		
vii)	Bur Oak (45 mm cal.)		each	1		
viii)	Glenleven Linden (65 mm cal.)		each	2		
ix)	American Elm (65 mm cal.)		each	10		
x)	Brandon Elm (65 mm cal)		each	14		
xi)	Amur Maple (50 mm cal.)		each	9		
xii)	Japanese Tree Lilac (50 mm cal.)		each	7		
xiii)	False Spirea (0.80 m HT)		each	15		
xiv)	Charles Joly Lilac (1.2 m HT)		each	12		

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 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
xv)	Meyer Lilac (0.60 m HT)		each	45		
xvi)	Nannyberry (0.80 m HT)		each	9		
xvii)	Abbotswood Potentilla (0.50 m ht)		each	45		
xviii)	Gray Gleam Junipers (1.0 m ht)		each	8		
xix)	Big Tuna Mugo Pine (0.80 m ht.)		each	5		
xx)	Calgary Carpet Juniper (0.60 m width)		each	13		
xxi)	Hughes Juniper (0.60 m width)		each	5		
xxii)	Blue Chip Juniper (0.50 m width)		each	11		
B.46	Chemical Application of Herbicide	E51	m ²	1000		
B.47	Site Furnishings	E39				
i)	Bench		each	2		
ii)	Waste Receptacle		each	2		
B.48	Interlocking Paving Stones	CW 3335-R1	m ²	18		
B.49	Lean Concrete Base	CW 3335-R1	m ²	18		
B.50	Crushed Limestone Path	E43	m ²	600		
B.51	Infield Granular	E44	m ²	725		
B.52	Cash Allowance for Irrigation Systems	E53	l.s	1		
B.53	Long Term Maintenance	E49				
i)	General Maintenance of Plant Material and Planting Beds		annual	2		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	MISCELLANEOUS					
B.54	Supply and Installation of Crash Attenuation Barrier	E36	each	2		
B.55	Steel Beam Guardrail	E38	m	11.4		
B.56	ET-31 End Treatment	E38	each	1		
B	<u>BGSA-SURFACE WORKS</u>				Subtotal:	
C	<u>DETOUR-SURFACE WORKS</u>					
	EARTH AND BASE WORKS					
C.1	Common Excavation	CW 3110-R19 E19	m ³	11,120		
C.2	Roadway Excavation	CW 3110-R19 E19	m ³	5,200		
C.3	Sub-Grade Compaction	CW 3110-R19	m ²	13,450		
C.4	Crushed Sub-base Material	CW 3110-R19				
i)	50 mm - Limestone		tonne	6,030		
ii)	100 mm - Limestone		tonne	10,210		
C.5	Supplying and Placing Base Course Material	CW 3110-R19	m ³	1,110		
C.6	Separation Geotextile Fabric	CW 3130-R4	m ²	13,560		
C.7	Pavement Removal	CW 3110-R19				
i)	Asphalt Pavement		m ²	9,900		
	ROADWORKS - NEW CONSTRUCTION					
C.8	Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17				
i)	Temporary Asphalt Curb (150 mm ht) Slip Form	E31	m	1,200		
ii)	Temporary Asphalt Median (180 mm ht)	E31	m ²	240		
iii)	Temporary Safety Curb	E31	m	20		
C.9	Construction of Asphaltic Concrete Pavements	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	1,650		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
C.10	Construction of Asphaltic Concrete Base Course (Type III)	CW 3410-R11	tonne	2,300		
	ACTIVE TRANSPORTATION PATHWAY					
C.11	Supplying and Placing Base Course Material	CW 3110-R19	m ³	234		
C.12	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
	i) Main Line Paving					
	a) Type IA		tonne	310		
	LANDSCAPING					
C.13	Clearing and Grubbing	CW 3010-R4 E16				
	i) Clearing and Grubbing		ha	0.01		
	ii) Tree Removal		each	40		
C.14	Fencing	CW 3550-R3 E40				
	i) Chain Link Fencing 1.22 m HT		m	70		
	ii) Chain Link Fencing 1.83 m HT		m	80		
C.15	Sodding	CW 3510-R9 E46				
	i) Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	2,000		
	ii) Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	500		
	MISCELLANEOUS					
C.16	Supply and Place Crash Attenuation Barrels	E37	each	14		
C.17	Detour Temporary Lighting	E35	l.s	1		
C	<u>DETOUR-SURFACE WORKS</u>				Subtotal:	

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
D	<u>1360 TAYLOR AVENUE</u>					
	EARTH AND BASE WORKS					
D.1	Roadway Excavation	CW 3110-R19 E19	m ³	470		
D.2	Sub-Grade Compaction	CW 3110-R19	m ²	1,100		
D.3	Crushed Sub-base Material	CW 3110-R19				
D.4	Supplying and Placing Base Course Material	CW 3110-R19	m ³	90		
	ROADWORKS - RENEWALS					
D.5	Pavement Removal	CW 3110-R19				
	i) Concrete Pavement		m ²	30		
	ii) Asphalt Pavement		m ²	600		
	iii) Monolithic Median Slab	SD-226A	m ²	70		
D.6	Concrete Curb Renewal	CW 3240-R10				
	i) Pinned Barrier Curb	SD-205 E30	m	170		
D.7	Line Painting	E33	m	200		
D.8	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
	i) Main Line Paving					
	a) Type IA		tonne	210		
	LANDSCAPING					
D.9	Tree Removal	E16	each	5		
D.10	Sodding	CW 3510-R9 E46				
	i) Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	100		
	ii) Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	10		
D.11	Planting Beds with Growing Medium (450mm Depth)	E45	m ²	110		
D.12	Wood Chip Mulch	E45	m ²	110		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
D.13	Heavy Duty Plastic Landscape Edger	E45	m ²	40		
D.14	Plant Material	E48				
i)	Ohio Buckeye (50 mm cal.)		each	4		
ii)	Delta Hackberry (50 mm cal.)		each	1		
iii)	Green Ash (65 mm cal.)		each	1		
iv)	Miss Kim Lilac (0.60 m ht.)		each	45		
D	<u>1360 TAYLOR AVENUE</u>				Subtotal:	
E	<u>GRANT INTERSECTION-SURFACE WORKS</u>					
	EARTH AND BASE WORKS					
E.1	Roadway Excavation	CW 3110-R19 E19	m ³	720		
E.2	Sub-Grade Compaction	CW 3110-R19	m ²	1,500		
i)	50 mm - Limestone		tonne	150		
E.3	Supplying and Placing Base Course Material	CW 3110-R19	m ³	250		
E.4	Grading of Boulevards	CW 3110-R19 E19	m ²	2,117		
E.5	Removal of Existing Concrete Bases	CW 3110-R19				
i)	600 mm Diameter or Less		each	3		
E.6	Separation Geotextile Fabric	CW 3130-R4	m ²	1,500		
E.7	HaTelit BL	E23	m ²	210		
	ROADWORKS - RENEWALS					
E.8	Pavement Removal	CW 3110-R19				
i)	Concrete Pavement		m ²	200		
E.9	Slab Replacement	CW 3230-R8				
i)	250 mm Concrete Pavement (Plain-Dowelled)		m ²	220		
ii)	200 mm Concrete Pavement (Plain-Dowelled)		m ²	1,300		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
E.10	Partial Slab Patches	CW 3230-R8				
i)	200 mm Concrete Pavement (Type A)		m ²	15		
ii)	200 mm Concrete Pavement (Type B)		m ²	910		
iii)	200 mm Concrete Pavement (Type C)		m ²	35		
iv)	200 mm Concrete Pavement (Type D)		m ²	65		
E.11	Slab Replacement - Early Opening (24 hour)	CW 3230-R8				
i)	150 mm Concrete Pavement (Reinforced)		m ²	55		
E.12	Partial Slab Patches - Early Opening (24 hour)	CW 3230-R8				
i)	200 mm Concrete Pavement (Type A)		m ²	40		
ii)	200 mm Concrete Pavement (Type B)		m ²	110		
E.13	Drilled Dowels	CW 3230-R8				
i)	19.1 mm Diameter		each	1,770		
E.14	Drilled Tie Bars	CW 3230-R8				
i)	20 M Deformed Tie Bar		each	2,560		
E.15	Miscellaneous Concrete Slab Removal	CW 3235-R9				
i)	100 mm Sidewalk		m ²	2,230		
E.16	Miscellaneous Concrete Slab Renewal	CW 3235-R9				
i)	Monolithic Median Slab	SD-226A	m ²	360		
ii)	Safety Median	SD-226B	m ²	230		
iii)	100 mm Sidewalk	SD-228A				
a)	Greater than 20 sq.m.		m ²	550		
iv)	Bullnose	SD-227C	m ²	60		
E.17	Adjustment of Precast Sidewalk Blocks	CW 3235-R9	m ²	35		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
E.18	Concrete Curb Renewal	CW 3240-R10				
i)	Barrier (150 mm reveal ht, Dowelled)	SD-205, SD-206A				
a)	Greater than 30 m		m	900		
ii)	Barrier (150 mm reveal ht, Separate)	SD-203A				
a)	3 m to 30 m		m	4		
iii)	Curb Ramp (8-12 mm reveal ht, Monolithic)	SD-229C,D	m	115		
E.19	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	190		
E.20	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	2,500		
ii)	Tie-ins and Approaches					
a)	Type IA		tonne	140		
E.21	Asphalt Patching of Miscellaneous Concrete	E26	m ²	600		
E.22	Planing of Pavement	CW 3450-R6				
i)	1 - 50 mm Depth (Asphalt)		m ²	6,500		
ii)	50 - 100 mm Depth (Asphalt)		m ²	6,500		
E.23	Detectable Warning Surface Tiles	CW 3326-R3	each	40		
	ROADWORKS - NEW CONSTRUCTION					
E.24	Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17				
i)	Construction of Monolithic Curb and Sidewalk	SD-228B	m ²	2,400		
E.25	Supplying and Placing Base Course Material	CW 3110-R19	m ³	125		
i)	Construction of Splash Strip (180 mm ht, Monolithic Barrier Curb, 750 mm width)	SD-223A	m	10		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
E.26	Interlocking Paving Stones Charcoal Holland Paver 60x210x210mm	CW 3330-R5 E27	m ²	180		
E.27	Interlocking Paving Stones Blue Holland Paver 60x105x210mm	CW 3330-R5 E27	m ²	4		
JOINT AND CRACK SEALING						
E.28	Reflective Crack Maintenance	CW 3250-R7	m	1,860		
ASSOCIATED DRAINAGE AND UNDERGROUND WORKS						
E.29	Replacing Existing Manhole and Catch Basin Frames & Covers	CW 2130-R12				
i)	AP-004 - Standard Frame for Manhole and Catch Basin		each	1		
ii)	AP-005 - Standard Solid Cover for Standard Frame		each	4		
iii)	AP-006 - Standard Grated Cover for Standard Frame		each	12		
E.30	Installation of Subdrains	CW 3120-R4	m	10		
ADJUSTMENTS						
E.31	Adjustment of Catch Basins / Manholes Frames	CW 3210-R7	each	20		
E.32	Replacing Existing Risers	CW 2130-R12				
i)	Pre-cast Concrete Risers		vert. m	1.0		
ii)	Brick Risers		vert. m	1.0		
E.33	Lifter Rings	CW 3210-R7				
i)	38 mm		each	7		
ii)	51 mm		each	10		
iii)	64 mm		each	2		
iv)	76 mm		each	1		
E.34	Adjustment of Valve Boxes	CW 3210-R7	each	7		
E.35	Valve Box Extensions	CW 3210-R7	each	3		
E.36	Adjustment of Curb Stop Boxes	CW 3210-R7	each	5		
E.37	Supply of Curb Inlet Box Covers	CW 3210-R7	each	2		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
E.38	Curb Stop Extensions	CW 3210-R7	each	4		
E.39	Adjustment of Traffic Signal Service Box Frames	CW 3210-R7	each	3		
LANDSCAPING						
E.40	Tree Removal	E16	each	3		
E.41	Chain Link Fence Removal	E42	m	95		
E.42	Fencing	CW 3550-R3 E40				
i)	Chain Link Fencing 1.83 m HT		m	70		
ii)	Double Vehicular Gate 6.1 m Wide x 1.93 m HT		each	1		
E.43	Sodding	CW 3510-R9 E46				
i)	Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	1,650		
ii)	Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	700		
E.44	Seeding	CW 3520-R7 E47				
i)	Fescue Overs-seed Mix		m ²	1,650		
E	<u>GRANT INTERSECTION-SURFACE WORKS</u>				Subtotal:	

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
F	<u>TAYLOR AVENUE WEST-SURFACE WORKS</u>					
	EARTH AND BASE WORKS					
F.1	Common Excavation	CW 3110-R19 E19	m ³	1,760		
F.2	Roadway Excavation	CW 3110-R19 E19	m ³	14,340		
F.3	Sub-Grade Compaction	CW 3110-R19	m ²	15,310		
F.4	Crushed Sub-base Material	CW 3110-R19				
	i) 50 mm - Limestone		tonne	6,020		
	ii) 100 mm - Limestone		tonne	510		
	iii) 150 mm - Limestone		tonne	23,055		
F.5	Supplying and Placing Base Course Material	CW 3110-R19	m ³	250		
F.6	Grading of Boulevards	CW 3110-R19 E19	m ²	9,700		
F.7	Removal of Existing Concrete Bases	CW 3110-R19				
	i) 600 mm Diameter or Less		each	2		
F.8	Separation Geotextile Fabric	CW 3130-R4	m ²	15,310		
F.9	Supply and Install Geogrid	CW 3135-R1	m ²	6,021		
F.10	Fill Material	CW 3170-R3				
	i) Placing Suitable Site Material		m ³	350		
	ROADWORKS - RENEWALS					
F.11	Pavement Removal	CW 3110-R19				
	i) Concrete Pavement		m ²	2,240		
	ii) Asphalt Pavement		m ²	2,236		
F.12	Slab Replacement	CW 3230-R8				
	i) 250 mm Concrete Pavement (Plain-Dowelled)		m ²	220		
F.13	Partial Slab Patches	CW 3230-R8				
	i) 200 mm Concrete Pavement (Type A)		m ²	5		
	ii) 200 mm Concrete Pavement (Type B)		m ²	1,040		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
iii)	200 mm Concrete Pavement (Type C)		m ²	40		
iv)	200 mm Concrete Pavement (Type D)		m ²	80		
F.14	Slab Replacement - Early Opening (24 hour)	CW 3230-R8				
i)	200 mm Concrete Pavement (Plain-Dowelled)		m ²	70		
ii)	150 mm Concrete Pavement (Reinforced)		m ²	100		
F.15	Partial Slab Patches - Early Opening (24 hour)	CW 3230-R8				
i)	200 mm Concrete Pavement (Type A)		m ²	10		
ii)	200 mm Concrete Pavement (Type B)		m ²	60		
F.16	Drilled Dowels	CW 3230-R8				
i)	19.1 mm Diameter		each	2,425		
F.17	Drilled Tie Bars	CW 3230-R8				
i)	20 M Deformed Tie Bar		each	3,530		
F.18	Miscellaneous Concrete Slab Removal	CW 3235-R9				
i)	100 mm Sidewalk		m ²	1,800		
F.19	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	65		
F.20	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
i)	Main Line Paving					
a)	Type IA		tonne	990		
ii)	Tie-ins and Approaches					
a)	Type IA		tonne	255		
F.21	Asphalt Patching of Miscellaneous Concrete	E26	m ²	650		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
F.22	Planing of Pavement	CW 3450-R6				
i)	1 - 50 mm Depth (Asphalt)		m ²	2,800		
ii)	50 - 100 mm Depth (Asphalt)		m ²	2,800		
F.23	Detectable Warning Surface Tiles	CW 3326-R3	each	40		
ROADWORKS - NEW CONSTRUCTION						
F.24	Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17				
i)	Construction of 250 mm Concrete Pavement (Plain-Dowelled)		m ²	240		
ii)	Construction of 230 mm Concrete Pavement (Plain-Dowelled) Slip Form Paving		m ²	3,165		
iii)	Construction of 200 mm Concrete Pavement (Plain-Dowelled)		m ²	1,720		
iv)	Construction of Monolithic Concrete Median Slabs	SD-226A	m ²	525		
v)	Construction of Monolithic Concrete Bull-noses	SD-227C	m ²	40		
F.25	Concrete Curbs, Curb and Gutter, and Splash Strips	CW 3310-R17				
i)	Construction of Barrier (180 mm ht, Dowelled)	SD-205	m	80		
ii)	Barrier Curb and Gutter	E30	m	1,840		
iii)	Pinned Barrier Curb	E30	m	100		
iv)	Construction of Curb Ramp and Gutter	E30	m	75		
iv)	Construction of Curb Ramp (8-12 mm ht, Monolithic)	SD-229C	m	125		
v)	Construction of Splash Strip (180 mm ht, Monolithic Barrier Curb, 750 mm width, Slip Form Paving)	SD-223A	m	1,300		
vi)	Construction of Splash Strip, (Separate, 600 mm width)	SD-223B	m	1,545		
F.26	Supply and Installation of Dowel Assemblies	CW 3310-R17	m	670		
F.27	Interlocking Paving Stones Charcoal Holland Paver 60x210x210mm	CW 3330-R5 E27	m ²	40		
F.28	Interlocking Paving Stones Blue Holland Paver 60x105x210mm	CW 3330-R5 E27	m ²	5		
F.29	Construction of Asphaltic Concrete Pavements	CW 3410-R11				
i)	Main Line Paving					

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	a) Type IA		tonne	900		
	ii) Tie-ins and Approaches					
	a) Type IA		tonne	130		
F.30	Construction of Asphaltic Concrete Base Course (Type III)	CW 3410-R11	tonne	1,300		
JOINT AND CRACK SEALING						
F.31	Reflective Crack Maintenance	CW 3250-R7	m	1,400		
ACTIVE TRANSPORTATION PATHWAY						
F.32	Excavation	CW 3110-R19	m ³	1,120		
F.33	Removal of Existing Asphalt	CW 3110-R19	m ²	2130		
F.34	Sub-Grade Compaction	CW 3110-R19	m ²	6,000		
F.35	Crushed Sub-base Material	CW 3110-R19				
	i) 50 mm - Limestone		tonne	1,350		
F.36	Supplying and Placing Base Course Material	CW 3110-R19	m ³	415		
F.37	Construction of Monolithic Curb and Sidewalk	SD-228B	m ²	1,025		
F.38	100 mm Concrete Sidewalk	CW 3325-R5	m ²	2,000		
F.39	Separation Geotextile Fabric	CW 3130-R4	m ²	3,000		
F.40	Construction of Asphaltic Concrete Overlay	CW 3410-R11				
	i) Main Line Paving					
	a) Type IA		tonne	570		
ASSOCIATED DRAINAGE AND UNDERGROUND WORKS						
F.41	Replacing Existing Manhole and Catch Basin Frames & Covers	CW 2130-R12				
	i) AP-004 - Standard Frame for Manhole and Catch Basin		each	1		
	ii) AP-005 - Standard Solid Cover for Standard Frame		each	1		
	iii) AP-006 - Standard Grated Cover for Standard Frame		each	2		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
F.42	Installation of Subdrains	CW 3120-R4	m	58		
	ADJUSTMENTS					
F.43	Adjustment of Catch Basins / Manholes Frames	CW 3210-R7	each	3		
F.44	Replacing Existing Risers	CW 2130-R12				
i)	Brick Risers		vert. m	1.0		
F.45	Lifter Rings	CW 3210-R7				
i)	38 mm		each	2		
ii)	51 mm		each	2		
iii)	64 mm		each	1		
iv)	76 mm		each	1		
F.46	Adjustment of Valve Boxes	CW 3210-R7	each	2		
F.47	Valve Box Extensions	CW 3210-R7	each	2		
F.48	Adjustment of Curb Stop Boxes	CW 3210-R7	each	1		
	LANDSCAPING					
F.49	Clearing and Grubbing	CW 3010-R4 E16				
i)	Clearing and Grubbing		ha	0.01		
ii)	Tree Removal		each	10		
F.50	Sodding	CW 3510-R9 E46				
i)	Sodding width > 600mm (c/w 75mm imported topsoil)		m ²	11,850		
ii)	Sodding width < or = 600mm (c/w 75 mm imported topsoil)		m ²	800		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
F.51	Seeding	CW 3520-R7 E47				
i)	Fescue Overs-seed Mix		m ²	11,850		
F.52	Plant Material	E48				
i)	Ohio Buckeye (50 mm cal.)		each	9		
ii)	Prairie Horizon Alder (50 mm cal.)		each	6		
iii)	Delta Hackberry (50 mm cal.)		each	2		
iv)	Bur Oak (45 mm cal.)		each	5		
v)	Glenleven Linden (65 mm cal.)		each	4		
vi)	Harvest Gold Linden (65 mm cal.)		each	2		
vii)	Brandon Elm (65 mm cal)		each	2		
viii)	Gladiator Crabapple (50 mm cal.)		each	7		
ix)	Pink Spires Crabapple (50 mm cal.)		each	5		
x)	Japanese Tree Lilac (50 mm cal.)		each	3		
F.53	Site Furnishings	E39				
i)	Bench		each	1		
ii)	Waste Receptacle		each	1		
F.54	Interlocking Paving Stones	CW 3335-R1	m ²	9		
F.55	Lean Concrete Base	CW 3335-R1	m ²	9		
F	<u>TAYLOR AVENUE WEST-SURFACE WORKS</u>				Subtotal:	

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
G	<u>WILKES INTERSECTION-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	WATERMAINS					
G.1	Watermain	CW 2110-R11				
	i) 150mm					
	a) trenchless installation		m	20		
G.2	Watermain and Water Service Insulation	CW 2110-R11				
	i) Under Roadway Excavation (SD-018)					
	a) 100mm thick x 3000mm wide		m	30		
	ii) Insulation Under Rail Ditch (CN R.O.W. STA 5+930)					
	a) 100mm thick x 3600mm wide		m	15		
G.3	U-Box around LDS	E95	each	2		
G.4	Insulate Catch Basin	E95	each	5		
G.5	Adjust, Relocate Existing Hydrant and Plug Drain	CW 2110-R11, E88	each	6		
G.6	Watermain Vertical Re-alignment	CW 2110-R11, E90				
	i) 250mm		each	1		
	GRAVITY SEWERS					
G.7	Land Drainage Sewers	CW 2130-R12, E82, E83, E84, E85				
	i) 250mm					
	a) trench or trenchless installation SDR35	E83.13	m	250		
	ii) 300mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	175		
	iii) 450mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	60		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
G.8	Manhole	CW 2130-R12, E96				
i)	SD-010					
a)	1200mm diameter base		vert. m	3		
G.9	New Manhole on Existing Sewer	CW 2130-R12				
i)	SD-010					
a)	1200mm diameter base		vert. m	15		
G.10	Catch Basin	CW 2130-R12, E95				
i)	SD-024		each	15		
ii)	SD-025		each	1		
G.11	Beehive Ditch Inlet	CW 2130-R12, E95	each	2		
G.12	Catch Pit	CW 2130-R12				
i)	SD-023		each	14		
G.13	Connecting to Existing Manhole	CW 2130-R12				
i)	250mm		each	3		
ii)	300mm		each	4		
iii)	450mm		each	1		
G.14	Connecting to Existing Sewer	CW 2130-R12, E86				
i)	250mm LDS to 525 LDS		each	1		
ii)	250mm LDS to 600 LDS		each	1		
iii)	300mm LDS to 300 LDS		each	2		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
G.15	Connecting to Existing Catch Basin	CW 2130-R12				
i)	250mm		each	1		
ii)	300mm		each	2		
G.16	Adjustment of Catch Basin Frames	CW 3210-R7	each	3		
G.17	Abandoning Existing Sewers with Cement-Stabilized Flowable Fill	CW 2130-R12, E93	m ³	9		
G.18	Removal of Existing Catch Basins	CW 2130-R12, E94	each	10		
G.19	Removal of Existing Catch Pits	CW 2130-R12, E94	each	7		
G.20	Sewer Inspection	CW 2145-R3				
i)	250mm to 900mm		m	485		
G.21	Manhole Inspection	CW 2145-R3	each	4		
G.22	Beehive Inlet Cover for Manhole	E96	each	2		
G	<u>WILKES INTERSECTION-UNDERGROUND WORKS</u>				Subtotal:	
H	<u>BGSA-UNDERGROUND WORKS/TAYLOR AVENUE EAST-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	WATERMAINS					
H.1	Watermain	CW 2110-R11				
i)	150mm					
a)	trenchless installation		m	145		
ii)	200mm					
a)	trenchless installation		m	535		
b)	in a casing pipe	CW 2110-R11, E91	m	56		
H.2	Hydrant Assembly	CW 2110-R11				
i)	SD-006		each	6		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
H.3	New Hydrant Assembly on Existing Watermain	CW-2110-R11, E89				
i)	SD-006		each	1		
ii)	SD-007		each	2		
H.4	Watermain Valve	CW 2110-R11				
i)	150mm		each	3		
ii)	200mm		each	5		
H.5	Fittings	CW 2110-R11				
i)	Tees					
a)	200mm X 200mm X 150mm		each	3		
b)	200mm X 200mm X 200mm		each	1		
ii)	Bends (SD-004)					
a)	150mm - 45°		each	2		
b)	200mm - 11 1/4°		each	7		
c)	200mm - 22 1/2°		each	4		
d)	200mm - 45°		each	3		
iii)	Bends (SD-005)					
a)	50mm - 45°		each	4		
b)	150mm - 45°		each	6		
c)	200mm - 45°		each	4		
iv)	Couplings					
a)	150mm		each	3		
b)	200mm		each	3		
H.6	Water Services	CW 2110-R11				
i)	19mm					
a)	trenchless installation, Class B sand bedding, Class 1 backfill		m	10		
ii)	50mm					
a)	trenchless installation		m	35		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
H.7	Corporation Stops	CW 2110-R11				
	i) 19mm		each	1		
	ii) 50mm		each	1		
H.8	Curb Stops - Replace Existing	CW 2110-R11				
	i) 19mm		each	1		
	ii) 50mm		each	1		
H.9	Curb Stop Boxes - Replace Existing	CW 2110-R11				
	i) 19mm		each	1		
	ii) 50mm		each	1		
H.10	Watermain and Water Service Insulation	CW 2110-R11				
	i) Under Roadway Excavation (SD-018)					
	a) 100mm thick x 3000mm wide		m	35		
H.11	Connecting to Existing Watermains and Large Diameter Water Services	CW 2110-R11				
	i) Inline connection - plug existing					
	a) 200mm		each	1		
	ii) In-line connection - no plug existing					
	a) 150mm		each	3		
	b) 200mm		each	2		
H.12	Connecting Existing Copper Water Services to New Watermains	CW 2110-R11				
	i) 12mm		each	1		
	ii) 50mm		each	1		
H.13	Abandoning Large Diameter Water Services	CW 2110-R11				
	i) 150mm		each	3		
H.14	Abandoning Small Diameter Water Services	CW 2110-R11				
	i) 50mm		each	1		
H.15	Adjust, Relocate Existing Hydrant and Plug Drain	CW 2110-R11, E88	each	1		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
H.16	10.9 Kilogram Sacrificial Zinc Anode					
i)	on metallic watermains		each	8		
	GRAVITY SEWERS					
H.17	Combined Sewers	CW 2130-R12, E82, E83, E84, E85				
i)	300mm					
a)	trenchless installation SDR35		m	125		
H.18	Land Drainage Sewers	CW 2130-R12				
i)	250mm					
a)	trench or trenchless installation SDR35	E83.13	m	350		
ii)	300mm					
a)	trench or trenchless installation C76-III or SDR35	E83.13	m	600		
b)	trenchless installation C76-V (CN ROW)		m	100		
iii)	375mm					
a)	trench or trenchless installation C76-IV or SDR35	E83.13	m	160		
iv)	450mm					
a)	trench or trenchless installation C76-IV or SDR35	E83.13	m	190		
v)	525mm					
a)	trench or trenchless installation C76-IV or SDR35	E83.13	m	75		
vi)	1050mm					
a)	trench or trenchless installation C76-IV or SDR35	E83.13	m	80		
b)	trenchless installation C76-V (CN ROW)		m	55		
H.19	Pre-Insulated Heat Traced Leads Land Drainage Sewers	CW 2130-R12, E97				
i)	250mm					
a)	trench installation, SDR35, Class B sand bedding, Class 2 backfill		m	50		
ii)	300mm					
a)	trench installation, SDR35, Class B sand bedding, Class 2 backfill		m	50		
H.20	Manhole	CW 2130-R12, E96				

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
i)	SD-010					
a)	1200mm diameter base		vert. m	47		
b)	1500mm diameter base		vert. m	9		
c)	2400mm diameter base		each	6		
d)	3050mm diameter base		each	1		
H.21	Catch Basin	CW 2130-R12, E95				
i)	SD-024		each	41		
ii)	SD-025		each	3		
H.22	Beehive Ditch Inlet	CW 2130-R12, E95	each	16		
H.23	Catch Pit	CW 2130-R12				
i)	SD-023		each	34		
H.24	Connecting to Existing Manhole	CW 2130-R12				
i)	250mm		each	1		
ii)	300mm		each	2		
H.25	Connecting to Existing Catch Basin	CW 2130-R12				
i)	250mm		each	2		
H.26	Connecting to Existing Sewer	CW 2130-R12, E86				
i)	250mm LDS to 525 CS		each	2		
ii)	300mm LDS to 300 LDS		each	3		
H.27	Abandoning Existing Sewers with Cement-Stabilized Flowable Fill	CW 2130-R12, E93	m ³	45		
H.28	Removal of Existing Manholes	CW 2130-R12, E94	each	4		
H.29	Removal of Existing Catch Basins	CW 2130-R12, E94	each	7		
H.30	Removal of Existing Catch Pits	CW 2130-R12, E94	each	6		
H.31	Sewer Inspection	CW 2145-R3				
i)	250mm to 900mm		m	1600		
ii)	larger than 900mm and egg shaped		m	135		
H.32	Manhole Inspection	CW 2145-R3	each	25		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
H.33	Remove Existing Culvert	CW 3610-R5	m	110		
H.34	Dispose of Existing Culvert	CW 3610-R5	m	110		
H.35	Grouted Rip-Rap Channel	CW 3615	m ³	18		
H.36	Beehive Inlet Cover for Manhole	E96	each	3		
	MISCELLANEOUS					
H.37	Concrete Pipe Three-Edge Bearing Test		each	27		
H	<u>BGSA-UNDERGROUND WORKS/TAYLOR AVENUE EAST-UNDERGROUND WORKS</u>				Subtotal:	
I	<u>DETOUR-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	GRAVITY SEWERS					
I.1	Land Drainage Sewers	CW 2130-R12, E82, E83, E84, E85				
	i) 250mm					
	a) trench or trenchless installation SDR35	E83.13	m	110		
	ii) 300mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	150		
I.2	Catch Basin	CW 2130-R12, E95				
	i) SD-024		each	4		
I.3	Beehive Ditch Inlet	CW 2130-R12 E95	each	2		
I.4	Catch Pit	CW 2130-R12				
	i) SD-023		each	2		
I.5	Connecting to Existing Manhole	CW 2130-R12				
	i) 250mm		each	1		
	ii) 300mm		each	2		
I.6	Connecting to Existing Sewer	CW 2130-R12, E86				
	i) 300mm LDS to 300 LDS		each	1		
I.7	Abandoning Existing Sewers with Cement-Stabilized Flowable Fill	CW 2130-R12, E93	m ³	20		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
I.8	Removal of Existing Catch Basins	CW 2130-R12, E94	each	6		
I.9	Removal of Existing Catch Pits	CW 2130-R12, E94	each	2		
I.10	Sewer Inspection	CW 2145-R3				
i)	250mm to 900mm		m	260		
I	<u>DETOUR-UNDERGROUND WORKS</u>				Subtotal:	
J	<u>MIDTOWN FEEDER MAIN PROTECTION</u>					
J.1	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS FeederMain Protection	CW 2110-R11 E80	I.s.	1		
J	<u>MIDTOWN FEEDER MAIN PROTECTION</u>				Subtotal:	
K	<u>GRANT INTERSECTION-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	WATERMAINS					
K.1	Insulate Catch Basin	E95	each	2		
K.2	Adjust, Relocate Existing Hydrant and Plug Drain	CW 2110-R11, E88	each	4		
	GRAVITY SEWERS					
K.3	Land Drainage Sewers	CW 2130-R12 E82, E83, E84, E85				
i)	250mm					
a)	trench or trenchless installation SDR35	E83.13	m	40		
K.4	Catch Basin	CW 2130-R12, E95				
i)	SD-024		each	1		
ii)	SD-025		each	2		
K.5	Catch Pit	CW 2130-R12				
i)	SD-023		each	2		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
K.6	Remove and Replace Existing Catch Basin	CW 2130-R12				
i)	SD-024		each	5		
ii)	SD-025		each	1		
K.7	Remove and Replace Existing Catch Pit	CW 2130-R12				
i)	SD-023		each	2		
K.8	Connecting to Existing Manhole	CW 2130-R12				
i)	250mm		each	1		
K.9	Abandoning Existing Sewers with Cement-Stabilized Flowable Fill	CW 2130-R12, E93	m ³	2		
K.10	Removal of Existing Catch Basins	CW 2130-R12, E94	each	4		
K.11	Removal of Existing Catch Pits	CW 2130-R12, E94	each	2		
K.12	Sewer Inspection	CW 2145-R3				
i)	250mm to 900mm		m	40		
K.13	Adjustment of Catch Basin Frames	CW 3210-R7	each	2		
K	<u>GRANT INTERSECTION-UNDERGROUND WORKS</u>				Subtotal:	
L	<u>TAYLOR AVENUE WEST-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	WATERMAINS					
L.1	Watermain and Water Service Insulation	CW 2110-R11				
i)	In a trench (SD - 018)					
a)	75mm thick		m	165		
L.2	Insulate Catch Basin	E95	each	7		
L.3	Regrading of Existing Sewer Service - Up to 1.5 metres Long	CW 2110-R11, E92				
i)	150mm		each	3		
L.4	Regrading of Existing Sewer Service - Longer Than 1.5 metres	CW 2110-R11, E92				

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	i) 150mm		m	55		
L.5	Adjust, Relocate Existing Hydrant and Plug Drain	CW 2110-R11 E88	each	13		
L.6	Watermain Vertical Re-alignment	CW 2110-R11 E90				
	i) 150mm		each	2		
	ii) 250mm		each	1		
	iii) 400mm		each	1		
	GRAVITY SEWERS					
L.7	Land Drainage Sewers	CW 2130-R12, E82, E83, E84, E85				
	i) 250mm					
	a) trench or trenchless installation SDR35	E83.13	m	530		
	ii) 300mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	110		
	iii) 450mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	95		
	iv) 525mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	110		
	v) 750mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	135		
	vi) 900mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	525		
	vii) 1050mm					
	a) trench or trenchless installation C76-III or SDR35	E83.13	m	200		
L.8	Manhole	CW 2130-R12, E96				
	i) SD-010					
	a) 1200mm diameter base		vert. m	9		
	b) 1500mm diameter base		vert. m	6		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	c) 1800mm diameter base		vert. m	27		
	d) 2100mm diameter base		vert. m	11		
L.9	Catch Basin	CW 2130-R12, E95				
	i) SD-024		each	23		
	ii) SD-025		each	2		
L.10	Catch Pit	CW 2130-R12				
	i) SD-023		each	7		
L.11	Connecting to Existing Catch Basin	CW 2130-R12				
	i) 250mm		each	5		
L.12	Connecting to Existing Sewer	CW 2130-R12, E86				
	i) 900mm LDS to 900 LDS		each	1		
	ii) 1050mm LDS to 1050 LDS		each	1		
L.13	Abandoning Existing Sewers with Cement-Stabilized Flowable Fill	CW 2130-R12, E93	m ³	30		
L.14	Removal of Existing Catch Basins	CW 2130-R12, E94	each	24		
L.15	Sewer Inspection	CW 2145-R3				
	i) 250mm to 900mm		m	1505		
	ii) larger than 900mm and egg shaped		m	200		
L.16	Manhole Inspection	CW 2145-R3	each	16		
L.17	Remove Existing Culvert	CW 3610-R5	m	13		
L.18	Dispose of Existing Culvert	CW 3610-R5	m	13		
L.19	LDS Inlet Headwall with Grate					
	i) 250mm	E98	each	3		
L	<u>TAYLOR AVENUE WEST-UNDERGROUND WORKS</u>				Subtotal:	

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
M	<u>UNDERPASS OUTLET-UNDERGROUND WORKS</u>					
	ASSOCIATED DRAINAGE AND UNDERGROUND WORKS					
	WATERMAINS					
M.1	Watermain Vertical Re-alignment	CW 2110-R11 E90				
i)	400mm		each	1		
	GRAVITY SEWERS					
M.2	Land Drainage Sewers	CW 2130-R12, E82, E83, E84, E85				
i)	300mm					
a)	trenchless installation C76-V (CN ROW)		m	35		
ii)	1200mm					
a)	trench or trenchless installation C76-III or SDR35	E83.13	m	70		
b)	trench or trenchless installation C76-IV or SDR35	E83.13	m	110		
c)	trench or trenchless installation C76-V or SDR35	E83.13	m	245		
M.3	Manhole	CW 2130-R12, E96				
i)	SD-010					
a)	2100mm diameter base		vert. m	30		
M.4	Beehive Ditch Inlet	CW 2130-R12 E95	each	1		
M.5	Catch Pit	CW 2130-R12				
i)	SD-023		each	1		
M.6	Connecting to Existing Sewer	CW 2130-R12, E86				
i)	300mm LDS to 300 LDS		each	1		
ii)	1200mm LDS to 1200 LDS		each	1		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
M.7	Sewer Inspection	CW 2145-R3				
i)	250mm to 900mm		m	35		
ii)	larger than 900mm and egg shaped		m	425		
M.8	Manhole Inspection	CW 2145-R3	each	6		
M	<u>UNDERPASS OUTLET-UNDERGROUND WORKS</u>				Subtotal:	
N	<u>PUMPINGSTATION</u>					
N.1	Sub Structure	E99	l.s.	1		
N.2	Super Structure	E100	l.s.	1		
N.3	Process Mechanical Systems	E101	l.s.	1		
N.4	Plumbing and HVAC Mechanical Systems	E102	l.s.	1		
N.5	Electrical, Instrumentation and Control Systems	E103	l.s.	1		
N.6	Structural Excavation and Shoring for Pumping Station	E110	l.s.	1		
N.7	Pumping Well Installation and Testing	E104				
i)	Pumping Well Installation		each	4		
ii)	Additional Pumping Well Drilling Depth		m	40		
iii)	Additional Well Development		hour	16		
N.8	System Installation	E104	l.s.	1		
N.9	System Operation	E104	l.s.	1		
N.10	System Decommissioning	E104	l.s.	1		
N.11	Well Decommissioning	E104				
i)	Pumping Well Decommissioning		each	4		
ii)	Monitoring Well Decommissioning		each	6		
N.12	Applicable MRST (PST) on Items N.3 to N.5	B11	l.s.	1		
N	<u>PUMPINGSTATION</u>				Subtotal:	
O	<u>RAILWORKS</u>					
	EARTH AND BASE WORKS					
	<u>SHOOFLY - CONSTRUCTION</u>					
O.1	Topsoil Excavation	CW3170-R3 E77	m ³	2147		
O.2	Common Excavation Suitable Site Material	CW3170-R3 E77	m ³	334		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
O.3	Common Excavation Unsuitable Site Material	CW3170-R3 E77	m ³	12035		
O.4	Chain Link Fence Removal	E42	m	70		
O.5	Asphalt Removal	CW3110 R19	m ²	737		
O.6	Concrete Removal	CW3110 R19	m ²	48		
O.7	Supply and Placing Subballast Material	E78	m ³	3706		
O.8	Corrugated Steel Pipe (CSP) Culverts	CW3610-R5 E79				
i)	150mm Perf CSP (1.6mm Thick)		m	88		
ii)	900mm CSP STN 0+539.830 (2.0mm Thick)		m	18		
iii)	900mm CSP STN 0+564.271(2.0mm Thick)		m	49		
iv)	900mm CSP STN 0+611.000(2.0mm Thick)		m	25		
v)	600mm CSP STN0+452.332 (1.6mm Thick)		m	40		
<u>MAINTRACK - CONSTRUCTION</u>						
O.9	Excavation to Waste	E77				
i)	Ballast		m ³	1251		
ii)	Subballast		m ³	1890		
iii)	Subgrade		m ³	1080		
O.10	Placing Suitable Site Material	CW3170-R3 E77	m ³	6185		
O.11	Supply and Placing Subballast Material	E78	m ³	1796		
O.12	Ditch Excavation	CW3110-R19 E77	m ³	7100		
<u>SHOOFLY - REMOVAL AND FINSHING</u>						
O.13	Salvage Ballast	E77	m ³	4908		
O.14	Salvage Subballast	E77	m ³	3706		
O.15	Removal of Existing Culverts	CW3610-R5 E79				
i)	150mm Perf CSP (1.6mm Thick)		m	88		
ii)	900mm CSP STN 0+539.830 (2.0mm Thick)		m	18		
iii)	900mm CSP STN 0+564.271(2.0mm Thick)		m	49		
iv)	900mm CSP STN 0+611.000(2.0mm Thick)		m	25		
v)	600mm CSP STN0+452.332 (1.6mm Thick)		m	40		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
O.16	Corrugated Steel Pipe (CSP) Culverts	CW3610-R5 E79				
i)	600mm CSP STN0+452.332 (1.6mm Thick)		m	40		
O.17	Supply and Place Base Course Material	CW3110-R19	m ³	470		
O.18	Seeding	E47	m ²	10100		
O	<u>RAILWORKS</u>				Subtotal:	
P	<u>BRIDGE, AND OHSS</u>					
P.1	Mobilization and Demobilization	E7	l.s.	1		
P.2	Structural Excavation	E56	l.s.	1		
P.3	Temporary Shoring, Excavation, Dewatering and Monitoring	E58	l.s.	1		
P.4	Supplying Steel H Piles	E60	m	600		
P.5	Driving Steel Piles	E60	m	600		
P.6	Supplying of Steel H Pile Tips	E60	each	36		
P.7	Installation of Steel H Pile Tips	E60	each	36		
P.8	Splicing Steel H Piles	E60	each	36		
P.9	Rock-Socketed Caissons					
i)	Supply and Install Rock-Socketed Caissons	E59,E62	l.s.	1		
ii)	Added Length of Rock-Socket	E59	m	20		
iii)	Added Length of Steel Casing into Weathered Rock Zone	E59	m	5		
iv)	Subtracted Length of Rock-Socketed Caisson	E59	m	-15		
P.10	Steel Casing Tips					
i)	Supply of Steel Casing Tips	E59	each	9		
ii)	Installation of Steel Casing Tips	E59	each	9		
P.11	Pile Dynamic Analyzer (PDA) Testing	E61	l.s.	1		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
P.12	Supplying Reinforcing Steel					
i)	Plain Steel	E63	kg	23,660		
ii)	Galvanized Steel	E63	kg	200,500		
iii)	Stainless Steel	E63	kg	12,562		
P.13	Placing Reinforcing Steel	E63	kg	236,722		
P.14	Supply and Place Structural Concrete					
i)	Abutment	E62	l.s.	1		
ii)	Pier Caps	E62	l.s.	1		
iii)	Deck and Trainman's Walkways	E62	l.s.	1		
iv)	Shoulder and Median Traffic Barriers	E62	l.s.	1		
v)	Slope Protection Paving	E62	l.s.	1		
P.15	Supplying and Placing Subsurface Drainage	E55	l.s.	1		
P.16	Structural Backfilling	E57	l.s.	1		
P.17	Heating Concrete	E62	m ³	300		
P.18	Supply, Fabrication and Delivery of Steel Reinforced Elastomeric Bearings					
i)	Bearings "EB1"	E64	each	16		
ii)	Bearings "EB2"	E64	each	8		
P.19	Installation of Steel Reinforced Elastomeric Bearings					
i)	Bearings "EB1"	E64	each	16		
ii)	Bearings "EB2"	E64	each	8		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
P.20	Supply, Fabrication and Delivery of Structural Steel	E65	l.s.	1		
P.21	Erection of Structural Steel	E66	l.s.	1		
P.22	Supply and Installation of Expansion Joints	E69	l.s.	1		
P.23	Supply and Install Moveable Deck Hoarding	E62	l.s.	1		
P.24	Supply and Fabricate Miscellaneous Metal	E71	l.s.	1		
P.25	Placing Miscellaneous Metal	E71	l.s.	1		
P.26	Supply and Placement of Waterproofing	E70	l.s.	1		
P.27	Supply and Installation of Bridge Electrical	E73	l.s.	1		
P.28	Cast-in-Place Concrete Pile Foundations					
i)	S780 - 762 mm Diameter Pile	E74	each	1		
ii)	S781 - 915 mm Diameter Pile	E74	each	1		
iii)	S782 - 762 mm Diameter Pile	E74	each	1		
iv)	S783 - 915 mm Diameter Pile	E74	each	1		
v)	S784 - 1219 mm Diameter Pile	E74	each	1		
vi)	S785 - 1219 mm Diameter Pile	E74	each	2		
P.29	Abandonment of Piles due to Utility Interference		each	1		
P.30	Supply and Installation of New Steel Overhead Sign Support Structures					
i)	S780 - WB Grant Ave at Waverley St	E75	each	1		
ii)	S781 - NB Waverley St at Taylor Ave	E75	each	1		

FORM B: (R1) PRICES
 (SEE B11)

UNIT PRICES

ITEM	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
iii)	S782 - WB Taylor Ave at Waverley St	E75	each	1		
iv)	S783 - EB Wilkes Ave at Waverley St	E75	each	1		
v)	S784 - SB Waverley St at Victor Lewis Dr	E75	each	1		
vi)	S785 - SB Waverley St at Wilkes Ave	E75	each	1		
P	<u>BRIDGE, AND OHSS</u>				Subtotal:	
SUMMARY						
A	<u>WILKES INTERSECTION-SURFACE WORKS</u>				Subtotal:	
B	<u>BGSA-SURFACE WORKS</u>				Subtotal:	
C	<u>DETOUR-SURFACE WORKS</u>				Subtotal:	
D	<u>1360 TAYLOR AVENUE</u>				Subtotal:	
E	<u>GRANT INTERSECTION-SURFACE WORKS</u>				Subtotal:	
F	<u>TAYLOR AVENUE WEST-SURFACE WORKS</u>				Subtotal:	
G	<u>WILKES INTERSECTION-UNDERGROUND WORKS</u>				Subtotal:	
H	<u>BGSA-UNDERGROUND WORKS/TAYLOR AVENUE EAST-UNDERGROUND WORKS</u>				Subtotal:	
I	<u>DETOUR-UNDERGROUND WORKS</u>				Subtotal:	
J	<u>MIDTOWN FEEDER MAIN PROTECTION</u>				Subtotal:	
K	<u>GRANT INTERSECTION-UNDERGROUND WORKS</u>				Subtotal:	
L	<u>TAYLOR AVENUE WEST-UNDERGROUND WORKS</u>				Subtotal:	
M	<u>UNDERPASS OUTLET-UNDERGROUND WORKS</u>				Subtotal:	
N	<u>PUMPINGSTATION</u>				Subtotal:	
O	<u>RAILWORKS</u>				Subtotal:	
P	<u>BRIDGE, AND OHSS</u>				Subtotal:	
TOTAL BID PRICE (GST extra)					(in figures)	_____

FORM G1: BID BOND AND AGREEMENT TO BOND

(Page 1 of 2)
(See B15)

BID BOND

KNOW ALL MEN BY THESE PRESENTS THAT

_____ (hereinafter called the "Principal") and

_____ (hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee") in the sum of ten percent (10%) of the Total Bid Price set out in the Bid hereinafter described, for the payment of which sum the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has submitted a Bid to the Obligee for

BID OPPORTUNITY NO. 473-2016

WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB: CONTRACT 2 – UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS

as more fully set out in the Bid Opportunity.

NOW THEREFORE the condition of this obligation is such that if the Bid of the Principal is not accepted, or if said Bid is accepted and the Principal, in accordance with the terms of the Bid, enters into a Contract with the said Obligee and furnishes the required performance security for guaranteeing the faithful performance of the Contract, this obligation shall be void, but otherwise shall remain in full force and effect.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20_____ .

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

FORM G1: (R1) BID BOND AND AGREEMENT TO BOND

(Page 2 of 2)
(See B15)

AGREEMENT TO BOND

(to be attached to and to form part of Bid Bond)

The Surety on the attached Bid Bond hereby undertakes and agrees with **THE CITY OF WINNIPEG** to become bound as Surety for the Principal,

_____ of
(Name of Bidder)

(Place)

the Bidder to you on _____, 20____ for

BID OPPORTUNITY NO. 473-2016

WAVERLEY STREET UNDERPASS AT CN MILE 3.89 RIVERS SUB: CONTRACT 2 – UNDERPASS STRUCTURE, RAILWORKS, ROADWORKS, LAND DRAINAGE SEWER, PUMPING STATION AND LANDSCAPING WORKS

In an amount equal to fifty percent (50%) of the Contract Price for the due and proper performance of the Work shown and described in the Bid Opportunity, if our Principal's Bid is accepted by you, such Performance Bond to be maintained and continue in full force and effect until the expiration of the warranty period. The Performance Bond shall be in the form specified in the Bid Opportunity.

It is a condition that this Agreement to Bond shall become null and void if the Performance Bond mentioned above is not required from our Principal within Ninety (90) Calendar Days following the Submission Deadline.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

SIGNED AND SEALED this _____ day of _____, 20_____ .

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM G2: IRREVOCABLE STANDBY LETTER OF CREDIT AND UNDERTAKING
(BID SECURITY) (Page 2 of 2)
(See B15)**

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

This Standby Letter of Credit will expire on May 23, 2017.

if our customer's Bid is not accepted, and if accepted, when our customer has entered into a Contract with you and has furnished the required performance security for guaranteeing the faithful performance of the Contract.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

WE HEREBY UNDERTAKE and agree to provide in your favour an irrevocable Standby Letter of Credit in an amount equal to fifty percent (50%) of the Contract Price for the due and proper performance of the Work shown and described in the Bid Opportunity, if our customer's Bid is accepted by you. Such Standby Letter of Credit shall be maintained and continue in full force and effect until the expiration of the warranty period. The Standby Letter of Credit shall be in the form specified in the Bid Opportunity.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (2007 Revision), International Chamber of Commerce Publication Number 600.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)