

**APPROVED RATES FOR SANITARY SEWERS AND STORM SEWERS
PIPE SUPPLY COSTS**

- NOTE:**
- 1) Concrete Pipe costs are based on 2021 market prices.
 RG – Rubber gasket pipe or equivalent, including gaskets, etc.
 SRC – Sulphate resistant concrete pipe
 - 2) PVC pipe costs are based on 2021 market prices as 2022 market prices were not available prior to preparation of these unit rates
 - 3) Ultra Ribbed pipe costs are based on 2021 market prices as 2022 market prices were not available prior to preparation of these unit rates
 - 4) Pipe supply costs do not included G.S.T.

A. SDR 35 PVC PIPE & PVC PROFILE PIPE

Note: Pipe Joints are bell and spigot. Unit Price per linear metre.

PIPE SIZE (mm)	PVC	ULTRA-RIBBED
150	\$30.00	NA
200	\$54.00	\$40.00
250	\$80.00	\$49.00
300	\$121.00	\$58.00
375	\$175.00	\$79.00
450	\$285.00	\$112.00
525	\$398.00	\$185.00
600	\$506.00	\$338.00
675	\$635.00	NA
750	\$844.00	\$522.00
900	\$1,204.00	\$702.00
1050	\$1,548.00	NA

B. REINFORCED CONCRETE PIPE – C76

Note: Pipe Joints are tongue and groove. Unit Price per linear metre.

PIPE SIZE	CLASS II SRC	CLASS III SRC	CLASS IV SRC	CLASS V SRC
	RG	RG	RG	RG
300	-	-	-	\$67.00
375	-	-	-	\$86.00
450	-	-	-	\$98.00
525	-	-	-	\$150.00
600	-	-	\$214.00	\$235.00
675	-	-	\$268.00	\$301.00
750	-	-	\$336.00	\$389.00
900	-	\$416.00	\$492.00	\$549.00
1050	\$650.00	\$672.00	\$758.00	\$895.00
1200	\$793.00	\$840.00	\$1,002.00	\$1,195.00
1350	\$1,059.00	\$1,120.00	\$1,315.00	\$1,490.00
1500	\$1,213.00	\$1,320.00	\$1,565.00	\$1,825.00
1650	\$1,457.00	\$1,567.00	\$1,824.00	\$2,153.00
1800	\$1,674.00	\$1,900.00	\$2,168.00	\$2,495.00

**C. SDR 35 PVC PIPE , PVC PROFILE PIPE AND REINFORCED CONCRETE (C76) PIPE
PLACING COSTS**

PIPE SIZE	DEPTH RANGES IN METRES									
	0-2.5	2.5-3.0	3.0-3.5	3.5-4.0	4.0-4.5	4.5-5.0	5.0-5.5	5.5-6.0	6.0-6.5	6.5-7.0
150	\$145.00	\$149.00	\$154.00	\$158.00	\$163.00	\$168.00	\$176.00	\$185.00	\$195.00	\$204.00
200	\$160.00	\$170.00	\$180.00	\$191.00	\$202.00	\$214.00	\$236.00	\$259.00	\$285.00	\$313.00
250	\$160.00	\$170.00	\$180.00	\$191.00	\$202.00	\$214.00	\$236.00	\$259.00	\$285.00	\$313.00
250	\$160.00 CATCH BASINS – ALL DEPTH RANGES									
300	\$168.00	\$181.00	\$196.00	\$212.00	\$229.00	\$247.00	\$272.00	\$299.00	\$329.00	\$361.00
300	\$160.00 CATCH BASINS – ALL DEPTH RANGES									
375	\$193.00	\$209.00	\$225.00	\$243.00	\$263.00	\$284.00	\$312.00	\$343.00	\$378	\$416.00
450	\$213.00	\$230.00	\$248.00	\$268.00	\$289.00	\$312.00	\$343.00	\$378.00	\$416.00	\$457.00
525	\$234.00	\$255.00	\$278.00	\$303.00	\$330.00	\$360.00	\$388.00	\$420.00	\$453.00	\$489.00
600	\$257.00	\$288.00	\$323.00	\$361.00	\$405.00	\$453.00	\$489.00	\$529.00	\$571.00	\$617.00
675	\$283.00	\$317.00	\$355.00	\$397.00	\$445.00	\$481.00	\$519.00	\$561.00	\$606.00	\$654.00
750	\$311.00	\$342.00	\$376.00	\$414.00	\$456.00	\$501.00	\$551.00	\$606.00	\$667.00	\$734.00
900	\$358.00	\$397.00	\$441.00	\$489.00	\$543.00	\$603.00	\$669.00	\$743.00	\$825.00	\$915.00
1050	\$429.00	\$494.00	\$568.00	\$653.00	\$751.00	\$864.00	\$933.00	\$1,007.00	\$1,088.00	\$1,175.00
1200	\$515.00	\$593.00	\$681.00	\$784.00	\$901.00	\$1,036.00	\$1,140.00	\$1,254.00	\$1,379.00	\$1,517.00
1350	\$618.00	\$711.00	\$818.00	\$940.00	\$1,081.00	\$1,244.00	\$1,368.00	\$1,505.00	\$1,655.00	\$1,821.00
1500	\$742.00	\$853.00	\$981.00	\$1,128.00	\$1,298.00	\$1,492.00	\$1,671.00	\$1,872.00	\$2,097.00	\$2,348.00
1650	\$890.00	\$1,024.00	\$1,178.00	\$1,354.00	\$1,557.00	\$1,791.00	\$1,970.00	\$2,167.00	\$2,384.00	\$2,622.00
1800	\$1,068.00	\$1,282.00	\$1,539.00	\$1,539.00	\$2,216.00	\$2,659.00	\$2,925.00	\$3,217.00	\$3,539.00	\$3,893.00
NOTE:	<p>Sewer prices for all sewers over 1800 mm in size and/or deeper than 7.0 m to be established by a public tender with concrete duct or equivalent capacity as an alternative.</p> <p>Pipe supply costs in the schedules are F.O.B. plant. Delivery from the plant is included in the pipe placing costs.</p>									

**APPROVED RATES FOR SANITARY SEWER AND STORM SEWER MANHOLES
MATERIALS AND PLACING COSTS**

TYPE & SIZE	DEPTH RANGES IN METRES									
	0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	4.5 - 5.0	5.0 - 5.5	5.5 - 6.0	6.0 - 6.5	6.5 - 7.0
5A	3,420.00	4,103.00	4,788.00	5,472.00	6,155.00	6,839.00	7,523.00	8,207.00	9,101.00	9,606.00
1 - S 1220 X 1220	6,424.00	7,140.00	7,856.00	8,575.00	9,291.00	10,007.00	10,723.00	11,439.00	12,156.00	12,872.00
1 - S 1500 X 1500	8,614.00	9,330.00	10,046.00	10,764.00	11,481.00	12,197.00	12,913.00	13,629.00	14,346.00	15,063.00
1 - S 1800 X 1800	11,237.00	11,953.00	12,669.00	13,385.00	14,103.00	14,819.00	15,535.00	16,251.00	16,968.00	17,685.00
1 - S 2100 X 2100	15,307.00	15,959.00	16,610.00	17,261.00	18,075.00	18,889.00	19,703.00	20,518.00	21,332.00	22,146.00
1 - S 2400 X 2400	22,488.00	23,205.00	23,922.00	24,638.00	25,354.00	26,071.00	26,787.00	27,503.00	28,221.00	28,938.00
T - RISER 1200	9,601.00	10,341.00	11,057.00	11,773.00	12,489.00	13,206.00	13,923.00	14,640.00	15,356.00	14,862.00
T - RISER 1350	10,756.00	11,472.00	12,188.00	12,905.00	13,622.00	14,339.00	13,427.00	14,143.00	16,488.00	17,204.00

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TYPE & SIZE	DEPTH RANGES IN METRES									
	0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	4.5 - 5.0	5.0 - 5.5	5.5 - 6.0	6.0 - 6.5	6.5 - 7.0
T – RISER 1500	11,791.00	12,507.00	13,223.00	13,939.00	15,645.00	15,371.00	16,089.00	16,806.00	17,522.00	18,238.00
T – RISER 1650	12,653.00	13,369.00	14,086.00	14,802.00	15,519.00	16,236.00	16,952.00	17,668.00	18,384.00	19,036.00
T – RISER 1800	13,712.00	14,428.00	15,145.00	15,861.00	16,577.00	17,293.00	18,009.00	18,728.00	19,445.00	20,160.00
NOTE:	<p>T-Riser manhole prices include the cost of one length of pipe, 2400 mm. Manhole prices are sulphate resistant concrete.</p> <p>2100 X 2100 Type 1-S is not regular supply. Price shown is based on 2400 X 2400 as supplied by Lafarge Construction Materials</p>									

**APPROVED RATES FOR SANITARY SEWERS AND STORM SEWERS
MISCELLANEOUS COSTS**

ITEM	DESCRIPTION	UNIT PRICE PER CUBIC METRE
1	Rock excavation - Type A - Type B	\$18.00 \$38.00
2	Concrete bedding	\$370.00
3	Washed gravel	\$28.00
4	Bulk concrete in place	\$200.00
5	Reinforced concrete in place	\$300.00
6	Ordinary gravel backfill	\$25.00
7	Reinforced concrete outfall	\$450.00
8	Screened gravel	\$40.00
9	Crushed gravel for surface restoration	\$40.00
10	Compaction To be paid only on boundary conditions or where the City pays for full cost of the installation. Using the formula: Amount of compaction (m3) = length x (depth – 0.61m) x 1.07m Depth = Centre Line Depth to Pipe Invert (meters) Length – Length of Trench (meters) Trench Width – 1.07 meters for all pipe sizes	\$12.00
NOTE:	Any claim for any items noted above must be in excess of \$250.00 and all items must be authorized in accordance with the Development Agreement.	

**APPROVED RATES FOR WATERWORKS
SUPPLY AND PLACING COSTS**

ITEM	DESCRIPTION	UNIT PRICE PER LINEAR METRE
1	Trenching, laying, jointing, backfilling and supply of the water distribution pipe including cathodic protection for fittings.	
	A. 400 mm Mains	
	0 m 3 m Cover	\$450.00
	3 m 3.6 m Cover	\$470.00
	3.6 m 4.2 m Cover	\$500.00
	4.2 m 4.9 m Cover	\$530.00
	B. 300 mm Mains	
	0 m 3 m Cover	\$340.00
	3 m 3.6 m Cover	\$350.00
	3.6 m 4.2 m Cover	\$360.00
	4.2 m 4.9 m Cover	\$370.00
	C. 250 mm Mains	
	0 m 3 m Cover	\$290.00
	3 m 3.6 m Cover	\$300.00
3.6 m 4.2 m Cover	\$310.00	
4.2 m 4.9 m Cover	\$320.00	
D. 200 mm Mains		
0 m 3 m Cover	\$260.00	
3 m 3.6 m Cover	\$270.00	
3.6 m 4.2 m Cover	\$280.00	
4.2 m 4.9 m Cover	\$290.00	
E. 150 mm Mains		
0 m 3 m Cover	\$235.00	
3 m 3.6 m Cover	\$245.00	
3.6 m 4.2 m Cover	\$255.00	
4.2 m 4.9 m Cover	\$265.00	
F. 100 mm Mains		
0 m 3 m Cover	\$230.00	
3 m 3.6 m Cover	\$240.00	
3.6 m 4.2 m Cover	\$250.00	
4.2 m 4.9 m Cover	\$260.00	

**APPROVED RATES FOR WATERWORKS
TRANSPORTATION AND UTILITY CORRIDOR CROSSINGS
AND EXPRESSWAY AND FREEWAY CROSSINGS**

ITEM	DESCRIPTION	UNIT PRICE PER LINEAR METRE												
2	Encased Water Main – Open Cut Method Material, equipment and labour to install encased water main by an open cut method in conformity to the Standard Specifications Waterworks Construction (rehabilitation is not included and is not recoverable).													
	A. 400 mm Carrier Pipe c/w Encasement Pipe													
	<table border="0"> <tr> <td>0 m</td> <td>3 m Cover</td> <td>\$934.00</td> </tr> <tr> <td>3 m</td> <td>3.6 m Cover</td> <td>\$980.00</td> </tr> <tr> <td>3.6 m</td> <td>4.2 m Cover</td> <td>\$1,001.00</td> </tr> <tr> <td>4.2 m</td> <td>4.9 m Cover</td> <td>\$1,068.00</td> </tr> </table>	0 m	3 m Cover	\$934.00	3 m	3.6 m Cover	\$980.00	3.6 m	4.2 m Cover	\$1,001.00	4.2 m	4.9 m Cover	\$1,068.00	
0 m	3 m Cover	\$934.00												
3 m	3.6 m Cover	\$980.00												
3.6 m	4.2 m Cover	\$1,001.00												
4.2 m	4.9 m Cover	\$1,068.00												
	B. 300 mm Carrier Pipe c/w Encasement Pipe													
	<table border="0"> <tr> <td>0 m</td> <td>3 m Cover</td> <td>\$627.00</td> </tr> <tr> <td>3 m</td> <td>3.6 m Cover</td> <td>\$661.00</td> </tr> <tr> <td>3.6 m</td> <td>4.2 m Cover</td> <td>\$705.00</td> </tr> <tr> <td>4.2 m</td> <td>4.9 m Cover</td> <td>\$750.00</td> </tr> </table>	0 m	3 m Cover	\$627.00	3 m	3.6 m Cover	\$661.00	3.6 m	4.2 m Cover	\$705.00	4.2 m	4.9 m Cover	\$750.00	
0 m	3 m Cover	\$627.00												
3 m	3.6 m Cover	\$661.00												
3.6 m	4.2 m Cover	\$705.00												
4.2 m	4.9 m Cover	\$750.00												
	C. 250 mm Carrier Pipe c/w Encasement Pipe													
	<table border="0"> <tr> <td>0 m</td> <td>3 m Cover</td> <td>\$517.00</td> </tr> <tr> <td>3 m</td> <td>3.6 m Cover</td> <td>\$561.00</td> </tr> <tr> <td>3.6 m</td> <td>4.2 m Cover</td> <td>\$584.00</td> </tr> <tr> <td>4.2 m</td> <td>4.9 m Cover</td> <td>\$640.00</td> </tr> </table>	0 m	3 m Cover	\$517.00	3 m	3.6 m Cover	\$561.00	3.6 m	4.2 m Cover	\$584.00	4.2 m	4.9 m Cover	\$640.00	
0 m	3 m Cover	\$517.00												
3 m	3.6 m Cover	\$561.00												
3.6 m	4.2 m Cover	\$584.00												
4.2 m	4.9 m Cover	\$640.00												
	D. 200 mm Carrier Pipe c/w Encasement Pipe													
	<table border="0"> <tr> <td>0 m</td> <td>3 m Cover</td> <td>\$431.00</td> </tr> <tr> <td>3 m</td> <td>3.6 m Cover</td> <td>\$475.00</td> </tr> <tr> <td>3.6 m</td> <td>4.2 m Cover</td> <td>\$498.00</td> </tr> <tr> <td>4.2 m</td> <td>4.9 m Cover</td> <td>\$553.00</td> </tr> </table>	0 m	3 m Cover	\$431.00	3 m	3.6 m Cover	\$475.00	3.6 m	4.2 m Cover	\$498.00	4.2 m	4.9 m Cover	\$553.00	
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3 m	3.6 m Cover	\$475.00												
3.6 m	4.2 m Cover	\$498.00												
4.2 m	4.9 m Cover	\$553.00												
	E. 150 mm Carrier Pipe c/w Encasement Pipe													
	<table border="0"> <tr> <td>0 m</td> <td>3 m Cover</td> <td>\$369.00</td> </tr> <tr> <td>3 m</td> <td>3.6 m Cover</td> <td>\$392.00</td> </tr> <tr> <td>3.6 m</td> <td>4.2 m Cover</td> <td>\$426.00</td> </tr> <tr> <td>4.2 m</td> <td>4.9 m Cover</td> <td>\$482.00</td> </tr> </table>	0 m	3 m Cover	\$369.00	3 m	3.6 m Cover	\$392.00	3.6 m	4.2 m Cover	\$426.00	4.2 m	4.9 m Cover	\$482.00	
0 m	3 m Cover	\$369.00												
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3.6 m	4.2 m Cover	\$426.00												
4.2 m	4.9 m Cover	\$482.00												
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ITEM	DESCRIPTION	UNIT PRICE PER LINEAR METRE
3	<p>Encased Water Main – Augering Method Material, equipment and labour to install encased water main by an augering method in conformity to the Standard Specifications Waterworks Construction.</p> <p>150 mm Carrier Pipe c/w Encasement Pipe \$394.00</p> <p>200 mm Carrier Pipe c/w Encasement Pipe \$553.00</p> <p>250 mm Carrier Pipe c/w Encasement Pipe \$713.00</p> <p>300 mm Carrier Pipe c/w Encasement Pipe \$872.00</p> <p>400 mm Carrier Pipe c/w Encasement Pipe \$1,020.00</p>	
4	Supply, setting and jointing of hydrants including seat and anchor blocks and all fittings, coating, cathodic protection (hydrant lead and valve extra at unit price for pipe and valve).	<p>UNIT PRICE PER EACH</p> <p>\$7725.00</p>
5	<p>Supply, setting and joint valves, including box and rod, coating and cathodic protection.</p> <p>A 400 mm Valves \$10,300.00</p> <p>B 300 mm Valves \$4,600.00</p> <p>C 250 mm Valves \$3,500.00</p> <p>D 200 mm Valves \$2,400.00</p> <p>E 150 mm Valves \$1,800.00</p>	
6	<p>Supply and installation of Pressure Reducing Valve(s) and Chamber(s) including excavating backfilling, compacting, mechanical piping, and appurtenances. The depth range is 0 – 4.2 m as measured from the pipe invert to finished grade.</p> <p>Single PRV installation per Std. Dwg. 453-1039-001</p> <p>A 150 mm \$26,642.00</p> <p>B 200 mm \$33,406.00</p> <p>C 250 mm \$41,789.00</p> <p>Dual PRV installation per Std. Dwg. 453-1038-001</p> <p>A 150 mm \$38,918.00</p> <p>B 200 mm \$47,200.00</p> <p>C 250 mm \$56,396.00</p> <p>All materials and installations shall conform to the Current Standard Specifications, Waterworks Construction.</p>	
7	Rock excavation - Type A - Type B	<p>UNIT PRICE PER CUBIC METRE</p> <p>\$18.00</p> <p>\$38.00</p>

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ITEM	DESCRIPTION		UNIT PRICE PER LINEAR METRE
8	Sand bedding material		\$15.00
9	20 mm crushed gravel in trenches		\$25.00
10	Pit run gravel in trenches		\$20.00
11	Compaction	To be paid only on boundary conditions or where the City pays for full cost of the installation. Using the formula: Amount of compaction (m3) = length x (depth – 0.61m) x 1.07m Depth = Centre Line Depth to Pipe Invert (meters) Length – Length of Trench (meters) Trench Width – 1.07 meters for all pipe sizes	\$6.25
NOTE: Any claim for any items noted above must be in excess of \$250.00 and all items must be authorized in accordance with the Development Agreement.			

APPROVED RATES FOR SIDEWALK, CURB AND GUTTER

ITEM	DESCRIPTION	UNIT	UNIT RATE
1a	1.4 m Separate Sidewalk (includes lane aprons with wire mesh or reinforcing bars)	m2	\$92.00
1b	2.0 m Separate Sidewalk (includes lane aprons with wire mesh or reinforcing bars)	m2	\$97.00
2	Median (concrete) infill	m2	\$87.00
3	Curb and Gutter		
	A Standard or Low Profile – 250 mm – Class "A" concrete	m	\$86.50
	B Standard or Low Profile – 250 mm – Class "B" concrete	m	\$86.50
	C Standard (on asphalt base) – 250 mm – Class "A" concrete	m	\$86.50
	D Low Profile (on asphalt base) – 250 mm – Class "A" concrete	m	\$86.50
	E Standard (on asphalt base) – 500 mm – Class "A" concrete	m	\$95.00
	F Low Profile (on asphalt base) – 500 mm – Class "A" concrete	m	\$95.00
4	Combined Sidewalk, Curb and Gutter		
	A Standard Curb – 1100 mm walk – Class "A" concrete	m	\$135.00
	B Standard Curb – 1100 mm walk – Class "B" concrete	m	\$135.00
	C Low Profile Curb – 1100 mm walk – Class "A" concrete	m	\$135.00
	D Low Profile Curb – 1100 mm walk – Class "B" concrete	m	\$135.00
	E Standard Curb – 1500 mm walk – Class "A" concrete	m	\$160.00
	F Standard Curb – 1500 mm walk – Class "B" concrete	m	\$160.00
	G Low Profile Curb – 1500 mm walk – Class "A" concrete	m	\$160.00
	H Low Profile Curb – 1500 mm walk – Class "B" concrete	m	\$160.00
	I Low Profile Curb – 2000 mm walk – Class "A" concrete	m	\$215.00
5	Catch Basins and Inlet Control Devices		
	A Single Type C	ea.	\$3,570.00
	B Twin Type C	Ea.	\$5,080.00
	C Type K-2 Single	Ea.	\$3,950.00
	D Type K-2 Twin	Ea.	\$5,525.00
	E Plug Inlet Control Device 200 mm	Ea.	\$315.00
	F Plug Inlet Control Device 250 mm	Ea.	\$315.00
	G Plug Inlet Control Device 300 mm	Ea.	\$315.00
6	Concrete Invert Crossing		
	A Overland concrete drainage	m	\$104.00
7	Breakout and Replace (Residential)		
	A Sidewalk only	m2	\$160.00
	B Curb and Gutter only	m	\$175.00
	C 1.5 Mono Sidewalk	m	\$255.00
	D Asphalt Rehab 250 mm width	m	\$45.00
	E Boulevard Rehab 250 mm width	m	\$25.00
	F 2.0 Mono sidewalk	m	\$305.00
8	Breakout and Replacement (Majors)		
	A Curb and Gutter (standard or low profile) 250 mm Class "A" Concrete on Asphalt Base	m	\$175.00
	B Curb and Gutter (standard or low profile) 500 mm Class "A" Concrete on Asphalt Base	m	\$190.00
	C Asphalt Rehab 250 mm width	m	\$45.00
	D Boulevard Rehab 250 mm width	m	\$25.00
NOTE:	The above prices include unstable material costs.		

APPROVED RATES FOR PAVING AND LANES

ITEM	DESCRIPTION	UNIT	UNIT RATE
1	Conventional Construction		
	A Excavation and Disposal (in place measurements)	m3	\$4.80
	B Subgrade preparation	m2	\$2.15
	C 80mm gravel (placed and compacted)	Tonne	\$25.00
	D 25 mm crushed gravel	Tonne	\$33.00
	E Prime on 25 mm crushed gravel	m2	\$0.85
	F Tack coat on asphalt	m2	\$0.70
	G Asphaltic Mix "A"	Tonne	\$102.00
	H Asphaltic Mix "B"	Tonne	\$117.00
I Asphaltic Mix "C"	Tonne	\$125.00	
2	Full Depth Construction		
	A Excavation and Disposal	m3	\$4.80
	B Subgrade preparation	m2	\$2.15
	C Tack Coat	m2	\$0.70
	D Asphaltic Mix "A"	Tonne	\$102.00
	E Asphaltic Mix "B"	Tonne	\$117.00
F Asphaltic Mix "C"	Tonne	\$125.00	
3 (i)	Residential Roads		
	A Excavation and Disposal	m2	\$1.60
	B Subgrade preparation	m2	\$2.15
	C 200mm Granular Sub Base (80mm)	m2	\$11.60
	D 100mm Granular Base (25mm)	m2	\$7.15
	E Prime coat	m2	\$0.85
	F Asphaltic Mix "B" 50 mm lift	m2	\$14.60
	G Tack Coat	m2	\$0.70
	H Asphaltic Mix "B" 30 mm	m2	\$10.00
TOTAL USE RATE			\$48.65 \$49.00
3 (ii)	Conventional Construction - The following rates shall be used to determine the cost per square metre for non-standard pavement construction		
	A Excavation and Disposal (50 mm depth)	m2	\$0.80
	B Subgrade preparation (do not pro-rate)	m2	\$2.15
	C 50 mm Granular base Gravel	m2	\$2.75
	D 100mm Granular Base(25mm)	m2	\$7.15
	E Prime on 25 mm crushed gravel (do not pro-rate)	m2	\$0.85
	F Asphaltic Mix "A" – 50 mm lift	m2	\$11.70
	G Tack Coat (per application)	m2	\$0.70
	H Asphaltic Mix "B" – 50 mm lift	m2	\$14.60
4 (i)	Residential Collector & Industrial		
	A Excavation and Disposal	m2	\$1.60
	B Subgrade preparation	m2	\$2.15
	C 200mm Granular Sub Base(80mm)	m2	\$11.60
	D 100mm Granular Base(25mm)	m2	\$7.15
	E Prime coat	m2	\$0.85
	F Asphaltic Mix "A" 100 mm – 2 lifts	m2	\$24.50
	G Tack Coat (2 applications)	m2	\$1.40
	H Asphaltic Mix "B" 40 mm	m2	\$12.25
TOTAL USE RATE			\$61.50 \$62.00

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ITEM	DESCRIPTION	UNIT	UNIT RATE
4 (ii)	Major (Arterial Street) A Excavation and Disposal B Subgrade preparation C 300mm Granular Sub Base(80mm) D 100mm Granular Base(25mm) E Prime coat F Asphaltic Mix "A" 160 mm – 2 lifts G Tack Coat (2 applications) H Asphaltic Mix "C" 40 mm <p style="text-align: right;">TOTAL USE RATE</p>	m2 m2 m2 m2 m2 m2 m2 m2 	\$1.85 \$2.15 \$16.30 \$7.15 \$0.85 \$38.50 \$1.40 \$13.40 \$81.60 \$82.00
5 (i)	Asphalt under 500 mm Curb and Gutter	m2	\$15.00
5 (ii)	Asphalt under 250 mm Curb and Gutter	m2	\$15.00
6	Asphalt Median Strip A Excavation and subgrade compaction B 25 mm crushed gravel (placed) C Asphaltic Mix "B" – 50 mm <p style="text-align: right;">TOTAL USE RATE</p>	m2 m2 m2 	\$9.60 \$4.60 \$14.60 \$28.80 \$29.00
7 (i)	Gravelled Lanes A Excavation and Disposal B 25 mm crushed gravel	m2 Tonne	\$4.90 \$33.00
7 (ii)	Lane Construction A Excavation and Disposal B Subgrade preparation C 100mm Granular Base (25mm) <p style="text-align: right;">TOTAL USE RATE</p>	m2 m2 m2 	\$5.00 \$2.85 \$8.50 \$16.35 \$17.00
8	Asphalt Walkway and Pedestrian / Bicycle Paths A Excavation B Subgrade preparation C Root barrier D 100mm Granular Base(25mm) E Asphaltic Mix "B" 100 mm lift <p style="text-align: right;">TOTAL USE RATE</p>	m2 m2 m2 m2 m2 	\$6.80 \$3.50 \$3.40 \$8.60 \$26.00 \$48.30 \$49.00
9	Miscellaneous Asphalt Works A Asphalt planing – less than 100 m2 B Asphalt planing – more than 100 m2 C Asphalt Removal and Disposal over 100 m2	m2 m2 m2	\$37.00 \$8.50 \$20.00
NOTE:			

APPROVED RATES FOR PAVING

ITEM	DESCRIPTION	UNIT	UNIT RATE
1	<p><u>Major Standard Roads</u></p> <p>A Divided – 16.0 metre wide carriageway on 36 metre R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>B Undivided – 16.0 Industrial metre carriageway on 30 metre R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>C Divided Local Major 27 metre R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>D Collector Standard Road – 12.0 metre wide carriageway on 21 metre R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals)</p>	<p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre</p>	<p>\$2,090.00 \$4,180.00 \$146.00 \$292.00</p> <p>\$1,820.00 \$3,640.00 \$146.00 \$292.00</p> <p>\$1,920.00 \$3,840.00 \$128.00 \$256.00</p> <p>\$1,150.00 \$2,300.00</p>
2	<p><u>Complete Streets Arterials</u></p> <p>A Arterial Street (19.0 carriageway) 36.0 m R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>B Arterial Street (14.0 carriageway) 36.0 m R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>C Arterial Street (26.0 carriageway) 46.0 m R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>D Arterial Street (21.0 carriageway) 46.0 m R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p> <p>E Industrial Arterial Street (14.4 carriageway) 30.0 m R.O.W. (i) Half Cost (with no Traffic Signals) (ii) Full Cost (with no Traffic Signals) (iii) Top Lift Holdback Half Cost (iv) Top Lift Holdback Full Cost</p>	<p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p> <p>Lineal Metre Lineal Metre Lineal Metre Lineal Metre</p>	<p>\$2,310.00 \$4,620.00 \$174.00 \$348.00</p> <p>\$1,995.00 \$3,990.00 \$128.00 \$256.00</p> <p>\$2,720.00 \$5,440.00 \$238.00 \$476.00</p> <p>\$2,410.00 \$4,820.00 \$192.00 \$384.00</p> <p>\$1,910.00 \$3,820.00 \$132.00 \$264.00</p>

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ITEM	DESCRIPTION	UNIT	UNIT RATE
	F Local Arterial Street (18.6 carriageway) 32 m R.O.W.		
	(i) Half Cost (with no Traffic Signals)	Lineal Metre	\$2,260.00
	(ii) Full Cost (with no Traffic Signals)	Lineal Metre	\$4,520.00
	(iii) Top Lift Holdback Half Cost	Lineal Metre	\$170.00
	(iv) Top Lift Holdback Full Cost	Lineal Metre	\$340.00
	G Collector Street (15.0 metre carriageway) 25.2 metre R.O.W.		
	(i) Half Cost	Lineal Metre	\$1,280.00
	(ii) Full Cost	Lineal Metre	\$2,560.00
NOTE:	The Rates for Items 1 and 2 are to be used in calculating oversize payments and deposits for 2022 Development Agreements. Unit rates are based on Conventional pavement structures. The above rates include 5% for Engineering, 5% for Administration and 2.5% for Material testing.		

APPROVED RATES FOR BUS LAYBY COST RECOVERY

DESCRIPTION	UNIT	UNIT RATE
Concrete Bus Layby cost recovery		
20 Metre Length – lump sum	Lump Sum	\$24,000.00
25 Metre Length – lump sum	Lump Sum	\$27,100.00
37 Metre Length – lump sum	Lump Sum	\$35,400.00
NOTE:	The above rates include 5% for Engineering and 5% for Administration.	

APPROVED RATES FOR FENCING

DESCRIPTION	UNIT	UNIT RATE
1.80 metre high chain link fence		
Includes wire mesh, poles and installation	Lineal Metre	\$75.00
NOTE:	The above rates include 5% for Engineering and 5% for Administration.	

APPROVED RATES FOR BOULEVARDS

DESCRIPTION	UNIT	UNIT RATE
A Includes supplying of loam to 150 mm in depth, preparation (levelling and rototilling) and seeding. (Does not include any excavation)	m2	\$7.50
B Includes supplying of loam to 150 mm in depth, excavation, preparation (levelling and rototilling) and seeding	m2	\$13.25
NOTE:		

APPROVED RATES FOR STREET LIGHTING

	DESCRIPTION	UNIT	UNIT RATE
1	<p>Local Roads</p> <p>Walkway and Reserve Pathway Residential Street M, M-L, SW_L (9.0 / 16.0) Collector Street (10.8 / 21.0) Collector Street (12.3 / 22.5) Collector Street (15.0 / 25.2) Industrial Street (9.0 / 19.0)</p>	Linear metre	\$195.00
2	<p>Intermediate Roads</p> <p>Residential Street Entrance (2 x 6.0 / 22.5) Residential Street Entrance (2 x 6.5 / 23.5) Primary Collector Street (2 x 7.7 / 29.0) Primary Collector Street (2 x 8.3 / 30.0) Activity Centre Street (15.4 / 26.0) Neighborhood Boulevard (15.4 / 30.0)</p>	Linear metre	\$230.00
3	<p>Arterial Streets</p> <p>Single Carriageway Dual Carriageway Arterial Street (2 x 9.5 / 36.0) Arterial Street (2 x 7.0 / 36.0) Arterial Street (2 x 13.0 / 46.0) Arterial Street (2 x 10.5 / 46.0) Industrial Arterial Street (14.4 /30.0) Local Arterial Street (2 x 9.3 / 32.0) Urban Boulevard (2 x 12.0 / 42.6) Urban Boulevard (2 x 9.1 / 36.0) Parkway (2 x 9.1 / 36.0)</p> <p>All above rates shall apply in all standard developments subject to the conditions outlined in Part 15 of the Development Agreement.</p> <p>Reserved pathway lighting rate will only apply to all Reserve Pathways that are required to be lit for the transit pedestrian movement.</p> <p>The formula for calculating linear metre is as follows:</p> <ul style="list-style-type: none"> a) Linear length of roadways to be lighted are calculated based on the City of Calgary’s established “Road Net” road centre line mapping product. This replaces the previous complicated method of lot assessment involving measurement of both sides of the residential roads with allowance for MRs, ERs, sides of corner lots etc. b) Linear length for roadways with double centre lines will be the average length of two lines. c) At intersections, the end point for each roadway will be the point where the two centre lines meet. 	<p>Linear metre</p> <p>Linear metre</p>	<p>\$210.00</p> <p>\$420.00</p>

**2022 DEVELOPMENT AGREEMENT
OFF-SITE LEVIES AND ASSESSMENTS**

FEES	RATE PER HECTARE
Inspection Fee	\$2,493.00
Traffic Signage and Road Markings Charge	\$697.00

OFFSITE LEVIES		RATE PER HECTARE
Storm Sewer Levy (by watershed)	Bow River Watershed	\$9,496.00
	Elbow River Watershed	\$00.00
	Fish Creek Watershed	\$24,493.00
	Nose Creek Watershed	\$19,208.00
	Pine Creek Watershed	\$21,570.00
	Shepard Watershed	\$50,228.00
Sanitary Sewer Levy		\$57,078.00
Water Levy		\$49,434.00
Treatment Plant Levy		\$157,547.00
Transportation Levy		\$143,730.00
Community Services Charge		\$82,738.00

SCHEDULE "3"

STORM WATER POND FACILITIES COST RECOVERIES

Storm Water Pond Facilities cost recoveries are for a proportionate share of the project costs incurred or payments made in respect of the excess capacity together with interest calculated as set out below. Such recoveries may include, but are not limited to the following:

1. The cost of the land on which the Storm Water Pond Facilities are located, usually a Public Utility Lot, calculated as the greater of (a) uninflated actual price paid for the land on which the Storm Water Pond Facilities are located; or (b) the market value assessment (assessed as raw land), by an independent third party, of the land on which the Storm Water Pond Facilities are located at the time the benefitting developer ties in.
2. Rough grading, including but not limited to:
 - a. Clearing and grubbing
 - b. Moving material by scraper or truck and hoe, if required,
 - c. On-site haul to the nearest on-site location, with cut-fill plan certified by the consultant,
 - d. Off-site haul if no on-site fill locations are available, with cut-fill plan certified by the consultant, and dump tickets and proof of fill location,
 - e. Pumping, and
 - f. Place and compaction for on-site hauls.

Rough grading does not include compaction in fill zone or spreading out of material for off-site hauls

3. Rock excavation
4. Sub-cut for liner installations
5. Manufactured liner and necessary bedding and warning barrier coverage or suitable imported clay and installation cost including warning barrier
6. All piping and manholes to the first upstream and downstream manhole from the pond that accepts surface drainage
7. Connection from the pond to a receiving water body if no downstream storm infrastructure is available
8. Oil/grit separator and/or sediment chamber
9. Irrigation system
10. Storm water re-use pumps, pumphouse, and treatment
11. Emergency overflow piping and manholes downstream of the pond if no overland escape route is possible
12. Slope retention and seepage control
13. Water level monitoring panel including electricity and telephone connections plus associated utilities

SCHEDULE "3"

14. Pond monitoring costs
15. Permanent pumping (installation and operating costs) to FAC
16. Landscaping
17. Rip rap or slope protective matting
18. Erosion control
19. Maintenance road including turnaround and concrete driveway apron (does not include pathway if it is not required for a maintenance vehicle)
20. Facility maintenance costs to FAC
21. Consulting services including but not limited to storm water management report, pond report, engineering design and construction services, municipal approvals services, geotechnical services
22. Interest on the above costs calculated from the date of Construction Completion Certificate , except for land costs for which no interest is calculated, until the benefitting developer ties in and makes satisfactory cost arrangements with the Developer that constructed the Storm Water Pond Facilities. Interest is calculated as the Bank of Canada prime lending rate adjusted every year for the first three (3) years following Construction Completion Certificate after which interest adjusted every year and calculated as follows:

The latest Statistics Canada non-residential building construction price index for Calgary over the previous eight (8) quarters. The average index value for the most recent four (4) quarters is compared with the earlier four (4) quarters to obtain the most up-to-date non-residential building construction inflation rate which is used as the interest rate for the year.

Estimates and Reconciliation of Costs

If actual construction costs are not yet available because the facilities have not received FAC:

- a. Before Construction Completion Certificate , project costs shall be estimated based on contracts in place and quoted pricing.
- b. After Construction Completion Certificate and before FAC, project costs for maintenance to FAC will be estimated as 10% of total project costs to Construction Completion Certificate.

At FAC the total estimated project costs shall be reconciled to actual costs and the developer that constructed the Storm Water Pond Facilities will provide an invoice or refund, as appropriate to the developer tying into the Storm Water Pond Facilities. The developers may enter into an agreement to ensure that the reconciliation with actual costs are secured.