

Appendix "I" City Unit Prices

Art5-34 BB

Arterial 5-Lane with TWLTL lane and BB

ROW Proposed Aspalt Width Existing Asphalt Width		34 22.2 11		HL1 HL3 HL4/HL8	0	mm mm mm	Gran A Gran B	150 mm 600 mm	Bike Lane width No. of Bike Lane
Existing Aspnait Width			m	HL4/HL8	100	mm			
	Unit	Average Unit Price	Price per metre	Formula		Assumptio	nne.		
REMOVALS (From Scratch)		Ontrice	Reconstruction	Torrida		New Cons			
Earth Excavation	cu. m.	\$21.98	\$398.92	(D7+2)*((L6+L7)/1000)*1*D1	\$398.92				_
Average Cost of Removals for 22.2m asp	halt road on	a 34.0m ROW	\$398.92		\$398.92				
REMOVALS (Existing 2-Lane Urban Road)									
Remove Existing Asphalt	sq.m.	\$6.03	\$66.33	D8*1*D18	-				=
Remove Concrete Curb and Gutter Remove Ex Storm MH	m.	\$9.21 \$619.85	\$18.42 \$6.20	1*2*D19	=	4 steem M	H every 100		_
Remove Ex Storm MH Remove Ex Catch basin	each each	\$449.38	\$6.20 \$14.98	1/100*D20 2/60*D21	-		sins every 100		_
Remove Ex Storm Sewer	m	\$73.92	\$62.83	1*D22*85%	=		ction has sto		=
Remove Existing Concrete Sidewalk	sq. m.	\$11.70	\$35.10	1.5*1*2*D24	=			lk, both sides of the re	her
Tree Removal	each	\$370.00	\$49.33	2*D24/15	-		ry 15m both		<u></u> u
Stripping of Topsoil	sq. m.	\$3.48	\$66.21	(D6-D8-1-3)*1*D25	-	150 mm s			_
Average Cost of Removals for	11 0m 2-lan	a senhalt road	\$319.40						
CONSTRUCTION		-		/D7. 440/4D00	****		c		
Granular A - 150 mm	sq. m.	\$8.19	\$198.20	(D7+1*2)*D30 (D7+1*2)*D31	\$198.20			nce btn ex and prop a	
Granular B - 600 mm Concrete Curb and Gutter	sq. m. m.	\$25.14 \$46.15	\$608.39 \$92.30	(D7+1*2)*D31 (1*2)*D32	\$608.39 \$92.30	reconstruc	ction (differen	nce btn ex and prop a	spnait width)
Concrete Barrier Curb	m.	\$56.15	\$92.30	(1*2)*D33	\$92.30				
Concrete Centre Median	sq. m.	\$39.80		0.8*D34		1.2m rains	nd modian . I	0.2m barrier curb on e	anch eide
100 mm Diameter PE Subdrain	m.	\$24.75	\$49.50	1*2*D35	\$49.50	1.211110100	u median - v	0.2111 Dairiei Cuib Oil 6	auri side
HL1 Asphalt - 40 mm	sq. m.	\$8.41	\$186.68	(D7)*1*D36	\$186.68				
HL 4 or HL 8 Hot Mix or Recycled - 100 mm	sq. m.	\$17.00	\$377.45	(D7)*1*D37	\$377.45				
Tack Coat	sq. m.	\$0.29	\$6.48	(D7)*1*D38	\$6.48				
Concrete Sidewalk	sq. m.	\$50.33	\$201.32	2*2*1*D39	\$201.32	2.0 metre	wide sidewa	lk, both sides of the re	oad
Fine Grading, Topsoil & Sod	sq. m.	\$8.66	\$58.89	(D6-D7-1-4)*1*D40	\$58.89	Width of b	lvd = ROW-	asphalt width- curb w	idth - sidewalk both si
Mechanical Water Quality Device	each	\$40,250.00	\$68.73	D41/13000*D7	\$68.73	1 device for	or every 130	00sq. m. of asphalt	
600mm Diameter Storm Sewer	m.	\$451.42	\$451.42	1*D41	\$451.42	100% of s	ection requir	res storm sewer	
1200mm Diameter Precast Maintenance Hole	each	\$4,950.78	\$49.51	1/100*D42	\$49.51		y 100 metre:		
Precast Catch Basin -Single	each	\$2,463.43	\$82.11	2/60*D43	\$82.11		sins every 60		
250mm Diameter Catch Basin Lead, Flexible	m.	\$341.44	\$62.60	2/60*D44*D7/2	\$62.60				uction (diff btn ex and
Adjust Existing MH and CB to finished grade	each	\$368.06	\$15.06	3/73.333*D45 2*D47/15	\$15.06			and 2 CB's for recons	ruction)
Trees Average Cost of Construction for 22.2m asp		\$483.63 a 34.0m ROW	\$64.48 \$2,573.13	2"04//15	\$64.48 \$2,573.13	1 tree eve	ry 15 m both	SIDES	
MISCELLANEOUS			Reconstruction		New Const	ruction			
Bonds	L. S.								
Bonds as a percentage of net tender amount		1.80%	\$59.25		\$53.50				
Insurance	L. S.	1.00%	\$32.91		\$29.72				
Insurance as a percentage of net tender amount	L. S.	1.00%	\$32.91		\$29.72				
Garbage and Recyclable Collection Garbage and Recyclable Collection as a % of net	L. O.	0.10%	\$3.29		\$2.97				
Traffic Control and Signing	L.S.	0.1076	90.28		92.01				
Traffic Control and Signing as a % of net	L. U.	1.24%	\$40.81		\$36.85				
Field Office	L. S.		******		,				
Field Office as a percentage of net tender amount		0.12%	\$3.95		\$3.57				
Schedule of Work	L. S.	0.10%	\$3.29		\$2.97	0.1% of ne	et cost		
Street Lights	each	\$1,662.38	\$59.37		\$59.37			sides, Street Lights	
						(Pole,Lum	inaire Arm E	Bracket, Luminaire c/v	Photocell)
Street Light Duct Work	m.	\$33.50	\$33.50					%, \$33.50 @2012	
Asphalt Driveway Removal and Restoration	sq. m.	\$25.94	\$77.61		\$77.61			t (6.1m) driveway 449 vidth - sidewalk) * boti	
rage Cost of Miscellaneous Items for 22.2m asp	halt road on	a 34.0m ROW	\$313.99		\$300.06		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
			\$3,605,44		\$3,272,11				
			Reconstruction		New const	ruction			
			per metre		per metre				
Cost Difference of LTL	instead of o	entre median	#REF!		#REF!				
COST DITIETETICE OF LTL	occau or c	once median	WILL:		WILL:				

WITHOUT BIKE LANE(S)	Unit	Average							
		Unit Price	Price per metre	Formula					
REMOVALS (From Scratch) Earth Excavation	cu. m.	\$21.98	Reconstruction \$332.98	(D7-P6*2+2)*((L6+L7)/1000)*T1	New Construction \$332.98				
Latin Excavation	cu. III.	921.80	\$332.80	(57-7-0-242) ((50+57)/1000) 11	· 9332.80				
Average Cost of Removals for 18.2	2m asphalt r	oad on a 34.0m ROW	\$332.98		\$332.98				
REMOVALS (Existing 2-Lane Urban Road)									
Remove Existing Asphalt	sq.m.	\$6.03	\$66.33		_				
Remove Concrete Curb and Gutter Remove Ex Storm MH	m. each	\$9.21 \$619.85	\$18.42 \$6.20		=				
Remove Ex Catch basin	each	\$449.38	\$14.98		-				
Remove Ex Storm Sewer	m.	\$73.92	\$62.83		_				
Remove Existing Concrete Sidewalk Tree Removal	sq. m. each	\$11.70 \$370.00	\$35.10 \$49.33		=				
Stripping of Topsoil	sq. m.	\$3.48	\$66.21		=				
•					_				
Average Cost of Remov	als for 11.0	n 2-lane asphalt road	\$319.40						
Granular A - 150 mm	sq. m.	\$8.19	\$165.44	(D7-P6*2+1*2)*T30	\$165.44				
Granular B - 600 mm	sq. m.	\$25.14	\$507.83	(D7-P6*2+1*2)*T31	\$507.83				
Concrete Curb and Gutter	m.	\$46.15	\$92.30		\$92.30				
Concrete Barrier Curb Concrete Centre Median	m. sq. m.	\$56.15 \$39.80	\$0.00 \$0.00		\$0.00 \$0.00				
100 mm Diameter PE Subdrain	m.	\$24.75	\$49.50		\$49.50				
HL1 Asphalt - 40 mm	sq. m.	\$8.41	\$153.04	(D7-P6*2)*1*T36	\$153.04				
HL 4 or HL 8 Hot Mix or Recycled - 100 mm Tack Coat	sq. m. sq. m.	\$17.00 \$0.29	\$309.44 \$5.31	(D7-P6*2)*1*T37 (D7-P6*2)*1*T38	\$309.44 \$5.31				
Concrete Sidewalk	sq. m.	\$50.33	\$201.32	(57-7-0-2) 1 130	\$201.32				
Fine Grading, Topsoil & Sod	sq. m.	\$8.66	\$93.54	(D6-D7-1-4+P6*2)*1*T40	\$93.54				
Mechanical Water Quality Device	each	\$40,250.00	\$56.35	4874	\$56.35				
600mm Diameter Storm Sewer 1200mm Diameter Precast Maintenance Hole	m. each	\$451.42 \$4,950.78	\$451.42 \$49.51	1*D41 1/100*D42	\$451.42 100% of sec \$49.51 1 mh every	ction requires storm sewer			
Precast Catch Basin -Single	each	\$2,463.43	\$82.11	2/60*D43	\$82.11 2 catchbasis				
w 250mm Diameter Catch Basin Lead, Flexible	m.	\$341.44	\$39.83	2/60*T44*(D7-P6*2)/2		metres x road width / 2, reconstruction (diff btn ex and prop asphalt width)			
Adjust Existing MH and CB to finished grade Trees	each each	\$368.06 \$483.63	\$15.06 \$64.48	3/73.333*D45	\$15.06 73.333 metr \$64.48	res (1 mh and 2 CB's for reconstruction)			
Average Cost of Construction for 18.3					\$2,336.49				
MIGGELLANEOUS									
MISCELLANEOUS Bonds	L. S.		Reconstruction		New Construction				
Bonds as a percentage of net tender amount		1.80%	\$53.80		\$48.05	-			
Insurance	L. S.					_			
Insurance as a percentage of net tender amount Garbage and Recyclable Collection	L. S.	1.00%	\$29.89		\$26.69	_			
Garbage and Recyclable Collection as a % of net	L. O.	0.10%	\$2.99		\$2.67	_			
Traffic Control and Signing	L. S.					 			
Traffic Control and Signing as a % of net Field Office	L. S.	1.24%	\$37.06		\$33.10	_			
Field Office as a percentage of net tender amount	L. J.	0.12%	\$3.59		\$3.20				
Schedule of Work	L. S.	0.10%	\$2.99		\$2.67	= =			
Street Lights	each	1662.38	\$59.37		\$59.37				
Street Light Duct Work	m.	33.50	\$33.50		\$33.50	=			
Asphalt Driveway Removal and Restoration	sq. m.	25.94	\$123.27		\$123.27	= =			
						=			
Average Cost of Miscellaneous Items for 18.3	2m asphalt r	oad on a 34.0m ROW	\$346.45		\$332.53	=			

			\$3,335.32		\$3,002.00				
			Reconstructio		New construction per				
			n per metre		metre				
		Cost of Bike Lane	\$270.11		\$270.11				
		COSt OF DIKE LATE	9210.11		\$270.11				