TATHAM ENGINEERING

PRELIMINARY CONSTRUCTION COST ESTIMATE FOR SECURITIES

CIDERY TOWNS, THORNBURY

FILE NO. 120164 | OCTOBER 15, 2021

ITEM NO.	DESCRIPTION	UNIT	QTY		ESTIMATED UNIT PRICE		ESTIMATED AMOUNT
A.	**INTERNAL WORKS**						
1.0	**SILTATION AND EROSION CONTROL**						
1.01	Heavy Duty Silt Fence/Tree Protection Fence	m	630	$	15.00	$	9,450.00
1.02	Construction Access and Stone Mud Mat	ea.	1	$	5,000.00	$	5,000.00
	SUBTOTAL SILTATION AND EROSION CONTROL					**$**	**14,450.00**
2.0	**REMOVALS**						
2.01	Clear and Grub Existing Internal Trees	m^2	6,100	$	5.00	$	30,500.00
2.02	Remove Existing Georgian Trail	m	30	$	5.00	$	150.00
	SUBTOTAL REMOVALS					**$**	**30,650.00**
3.0	**EARTH WORKS**						
3.01	Strip and Dispose of Topsoil and All Deletrious Material	m^3	6,500	$	5.00	$	32,500.00
3.02	Supply, Place and Compact Imported Fill (within road and boulevards)	m^3	4,000	$	15.00	$	60,000.00
3.03	Supply, Place and Compact Imported Fill (within internal blocks)	m^3	2,775	$	15.00	$	41,625.00
	SUBTOTAL EARTH WORKS					**$**	**134,125.00**
4.0	**ROAD WORKS**						
4.01	Fine Grading Subbase	m^2	2,000	$	3.50	$	7,000.00
4.02	Mountable Curb	m	430	$	85.00	$	36,550.00
4.03	Barrier Curb	m	70	$	85.00	$	5,950.00
4.04	150 mm Diameter Subdrain	m	500	$	25.00	$	12,500.00
4.05	300 mm Granular B (within road)	m^2	3,300	$	11.50	$	37,950.00
4.06	150 mm Granular A (within road)	m^2	3,300	$	11.00	$	36,300.00
4.07	40 mm Binder Course Asphalt (HL-8)	m^2	1,700	$	12.00	$	20,400.00
4.08	40 mm Surface Course Asphalt (HL-3)	m^2	1,700	$	12.00	$	20,400.00
4.09	Tack Coat	m^2	1,700	$	0.85	$	1,445.00
4.10	1.5 m Wide Sidewalk	m^2	330	$	80.00	$	26,400.00
4.11	Breakaway Bollards	ea.	2	$	700.00	$	1,400.00
	SUBTOTAL ROAD WORKS					**$**	**206,295.00**

ITEM NO.	DESCRIPTION	UNIT	QTY		ESTIMATED UNIT PRICE		ESTIMATED AMOUNT
5.0	**WATERMAIN**						
5.01	150 mm Diameter Watermain	m	210	$	220.00	$	46,200.00
5.02	150 mm Diameter Water Valve	ea.	3	$	2,100.00	$	6,300.00
5.03	Hydrant, Valve and Lead	ea.	3	$	5,000.00	$	15,000.00
5.04	25 mm Diameter Water Service c/w Curb Stop Valve	ea.	42	$	1,550.00	$	65,100.00
5.05	3000 mm Dia. Water Meter Chamber c/w Meter and Appurtenances **(DELETED)**	LS				~~$~~	~~75,000.00~~
5.06	Connect to Existing 150 Diameter Watermain	ea.	1	$	5,000.00	$	5,000.00
	SUBTOTAL WATERMAIN					**$**	**137,600.00**
6.0	**SANITARY WORKS**						
6.01	200 mm Diameter Sanitary Sewer	m	176	$	300.00	$	52,800.00
6.02	1200 mm Diameter Sanitary Maintenance Hole	ea.	3	$	5,000.00	$	15,000.00
6.03	125 mm Diameter Sanitary Service	ea.	42	$	1,550.00	$	65,100.00
6.04	Connect to Existing Sanitary Sewer	ea.	1	$	3,000.00	$	3,000.00
	SUBTOTAL SANITARY WORKS					**$**	**135,900.00**
7.0	**LANDSCAPING**						
7.01	Boulevard Trees	LS				$	10,500.00
7.02	Townhouse Units	LS				$	49,069.44
7.03	Open Space Block	LS				$	56,505.54
	SUBTOTAL LANDSCAPING					**$**	**116,074.98**
8.0	**UTILITIES**						
8.01	Road Duct Crossing (10 ducts 9 m long)	ea.	8	$	4,000.00	$	32,000.00
8.02	Primary Hydro	m	645	$	18.00	$	11,610.00
8.03	Secondary Hydro	m	1,700	$	18.00	$	30,600.00
8.04	Streetlight System	ea.	8	$	3,500.00	$	28,000.00
8.05	Hydro Vaults	ea.	4	$	8,000.00	$	32,000.00
	SUBTOTAL UTILITIES					**$**	**134,210.00**
9.0	**STORM WORKS**						
9.01	300 mm dia. Storm Sewer	m	82	$	250.00	$	20,500.00
9.02	375mm dia. Storm Sewer	m	54	$	275.00	$	14,850.00
9.03	525mm dia. Storm Sewer	m	95	$	325.00	$	30,875.00
9.04	600mm dia. Storm Sewer	m	15	$	375.00	$	5,625.00
9.05	1200 mm dia. Catchbasin Maintenance Holes	ea.	4	$	5,000.00	$	20,000.00
9.06	2400 mm dia. Maintenance Holes	ea.	1	$	8,500.00	$	8,500.00
9.07	600 x 600 Catchbasins	ea.	4	$	2,500.00	$	10,000.00
9.08	1200 mm dia. Oil Grit Separator	ea.	1	$	50,000.00	$	50,000.00
	SUBTOTAL INTERNAL STORM WORKS					**$**	**160,350.00**
	SUBTOTAL INTERNAL WORKS (ITEMS 1 TO 9)					**$**	**1,069,654.98**

ITEM NO.	DESCRIPTION	UNIT	QTY		ESTIMATED UNIT PRICE		ESTIMATED AMOUNT
B	EXTERNAL WORKS						
10.0	**SILTATAION AND EROSION CONTROL**						
10.01	Tubidity Curtain	Ea	1				$5,000.00
	SUBTOTAL SILTATION AND EROSION CONTROL					**$**	**5,000.00**
11.0	**REMOVALS**						
11.01	Remove and Dispose of Asphalt	m^2	1,250	$	5.00	$	6,250.00
11.02	Remove and Dispose of Ground Cover and Topsoil	m^2	500	$	2.50	$	1,250.00
11.03	Remove and Dispose Existing 600 mm Dia. Storm Sewer along Elgin Street	m	147	$	25.00	$	3,675.00
11.04	Remove and Dispose Existing 675 mm Dia. Storm Sewer along Elgin Street	m	47	$	25.00	$	1,175.00
11.05	Remove and Dispose Storm Structures along Elgin Street	m	3	$	25.00	$	75.00
11.06	Remove and Dispose of Asphalt Sidewalk	m^2	200	$	5.00	$	1,000.00
	SUBTOTAL REMOVALS					**$**	**13,425.00**
12.0	**SITE WORK**						
12.01	Excavation and Grading (all work areas)	LS				$	30,000.00
12.02	Traffic Control	LS				$	5,000.00
						$	**35,000.00**
13.0	**ROAD WORK**						
13.01	Granular B (300 mm depth)	m^2	800	$	11.50	$	9,200.00
13.02	Granular A (150 mm depth)	m^2	800	$	11.00	$	8,800.00
13.03	Binder Course Asphalt HL-8 (50 mm depth)	m^2	1,250	$	12.00	$	15,000.00
13.04	Surface Course Asphalt HL-3 (40 mm depth)	m^2	1,250	$	12.00	$	15,000.00
13.05	Surface Course Asphalt HL-3 (40 mm depth) for Asphalt Sidewalk	m^2	1,250	$	12.00	$	15,000.00
						$	**63,000.00**
14.0	**STORM WORKS**						
14.01	750 mm dia. Storm Sewer	m	38	$	500.00	$	19,000.00
14.01	825 mm dia. Storm Sewer	m	156	$	600.00	$	93,600.00
14.02	1800 mm dia. Catchbasin Maintenance Holes	ea.	2	$	6,000.00	$	12,000.00
14.03	1800 mm dia. Maintenance Holes	ea.	1	$	6,000.00	$	6,000.00
14.04	Concrete Headwall to OPSD 804.000 c/w Pedestrian Barricade	ea.	1	$	15,000.00	$	15,000.00
	SUBTOTAL STORM WORKS					**$**	**145,600.00**
15.0	**RESTORATION**						
15.01	150 mm Topsoil and Finish Grading	m^2	500	$	5.00	$	2,500.00
15.02	Sod	m^2	500	$	5.00	$	2,500.00
	SUBTOTAL RESTORATION					**$**	**5,000.00**
	SUBTOTAL EXTERNAL WORKS (ITEMS 10 TO 15)					**$**	**267,025.00**
	TOTAL EXTERNAL WORKS (ITEMS 10 TO 15)					**$**	**1,336,679.98**