CROZIER CONSULTING ENGINEERS

Project Number: 1060-4892
Project Name: Flato Phase 4, 5, & 6
Date: 2022.11.16

Flato 4, 5, & 6 Required Securities - Updated to Stage II Preliminary Acceptance

ITEM	SPEC.	DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	CURRENT CONTRACT TOTAL	PERCENT REMAINING	REMAINING CONTRACT TOTAL
		SCHEDULE A - Sanitary Sewer						
A1	SP3	Supply & Install Sanitary Sewers c/w All Associated Appurtenances						
a)		200mm dia. PVC SDR-35	773	m	$ 220.00	$ 170,060.00	0%	$ -
b)		250mm dia. PVC SDR-35	73	m	$ 270.00	$ 19,710.00	0%	$ -
A2	SP5	Supply & Install 125mm dia. Sanitary Service (PVC DR-28)	149	Each	$ 1,360.00	$ 202,640.00	0%	$ -
A3	SP4	Supply & Install Maintenance Holes c/w Frame & Grate						
a)		1200mm dia. (OPSD 701.010)	8	Each	$ 5,480.00	$ 43,840.00	0%	$ -
b)		1200mm dia. (OPSD 701.010) c/w Safety Platform (OPSD 402.020)	2	Each	$ 8,290.00	$ 16,580.00	0%	$ -
A4	SP3	Locate & Connect to Existing Sanitary Sewer						
a)		Existing 200mm dia. Sanitary Plug (Werry Street)	1	L.S.	$ 760.00	$ 760.00	0%	$ -
b)		Existing 250mm dia. Sanitary Plug (Seeley Avenue)	1	L.S.	$ 830.00	$ 830.00	0%	$ -
A5		Supply & Install 200mm dia. Sanitary Plug for Future Development Connection	1	Each	$ 740.00	$ 740.00	0%	$ -
A6	SP24	Dewatering via Additional Pumps	846	m	$ 8.00	$ 6,768.00	0%	$ -
A7		CCTV Inspection of All Sanitary Sewers (Two times)	1	LS	$ 7,500.00	$ 7,500.00	67%	$ 5,025.00
					Subtotal	**$ 469,428.00**		**$ 5,025.00**
		SCHEDULE B - Storm Sewers						
B1	SP3	Supply & Install Storm Sewers						
a)		300mm dia. PVC SDR-35	312	m	$ 180.00	$ 56,160.00	0%	$ -
b)		375mm dia. PVC SDR-35	207	m	$ 200.00	$ 41,400.00	0%	$ -
c)		450mm dia. Concrete CL-65-D	202	m	$ 240.00	$ 48,480.00	0%	$ -
d)		525mm dia. Concrete CL-65-D	76	m	$ 260.00	$ 19,760.00	0%	$ -
e)		600mm dia. Concrete CL-65-D	132	m	$ 310.00	$ 40,920.00	0%	$ -
f)		675mm dia. Concrete CL-65-D	70	m	$ 390.00	$ 27,300.00	0%	$ -
g)		750mm dia. Concrete CL-65-D	159	m	$ 470.00	$ 74,730.00	0%	$ -
h)		825mm dia. Concrete CL-65-D	50	m	$ 580.00	$ 29,000.00	0%	$ -
i)		300mm dia. Concrete CL-100-D	448	m	$ 210.00	$ 94,080.00	0%	$ -
j)		300mm dia. Concrete CL-100-D	71	m	$ 210.00	$ 14,910.00	0%	$ -
k)		250mm dia. PVC SDR-35	48	m	$ 180.00	$ 8,640.00	0%	$ -
l)		300mm dia. PVC SDR-35	41	m	$ 200.00	$ 8,200.00	0%	$ -
B2	SP4	Supply & Install Storm Sewer Structures c/w Frame & Grate						
a)		1200mm dia. Storm Maintenance Hole (OPSD 701.010)	3	Each	$ 4,610.00	$ 13,830.00	0%	$ -
b)		1500mm dia. Storm Maintenance Hole (OPSD 701.011)	3	Each	$ 7,350.00	$ 22,050.00	0%	$ -
c)		1800mm dia. Storm Maintenance Hole (OPSD 701.012)	1	Each	$ 10,150.00	$ 10,150.00	0%	$ -
d)		1200mm dia. Catch Basin Maintenance Hole (OPSD 701.010)	15	Each	$ 4,370.00	$ 65,550.00	0%	$ -
e)		1500mm dia. Catch Basin Maintenance Hole (OPSD 701.011 and OPSD 703.011)	5	Each	$ 7,450.00	$ 37,250.00	0%	$ -
f)		1500mm dia. Double Catch Basin Maintenance Hole (OPSD 701.011 and OPSD 703.021)	2	Each	$ 7,250.00	$ 14,500.00	0%	$ -

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ITEM	SPEC.	DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	CURRENT CONTRACT TOTAL	PERCENT REMAINING	REMAINING CONTRACT TOTAL
		SCHEDULE B - Storm Sewers (Continued)						
B3	SP4	Supply & Install Storm Sewer Structures c/w Frame & Grate						
a)		600mm x 600mm Catchbasin	5	Each	$ 2,230.00	$ 11,150.00	0%	$ -
b)		600mm x 1400mm Double Catch Basin	5	Each	$ 3,520.00	$ 17,600.00	0%	$ -
c)		600mm x 600mm Rear Lot Catchbasin	15	Each	$ 2,210.00	$ 33,150.00	0%	$ -
B4		Supply & Install Storm Services						
a)		100mm dia. (Single Connection)	117	Each	$ 1,260.00	$ 147,420.00	0%	$ -
b)		125mm dia. c/w Wye & 100mm dia. Stubs (Dual Connection)	32	Each	$ 1,600.00	$ 51,200.00	0%	$ -
B5		Construct Temporary Overland Flow Channel with 100mm of Topsoil						
a)		Preparation & Fine Grading	6000	m^2	$ 4.25	$ 25,500.00	0%	$ -
b)		Terrafix Coir Mat	600	m	$ 4.75	$ 2,850.00	0%	$ -
c)		Hydroseed	6000	m^2	$ 0.75	$ 4,500.00	0%	$ -
d)		Supply & Install Temporary 600mm dia. C.S.P.	22	m	$ 400.00	$ 8,800.00	0%	$ -
e)		Supply & Install Temporary 1350mm dia. C.S.P.	32	m	$ 610.00	$ 19,520.00	0%	$ -
f)		Supply & Install 1.8m high Chain Link Fence (OPSD 972.130)	76	m	$ 88.00	$ 6,688.00	0%	$ -
g)		Supply & Install Wood Bollards c/w Reflectors	1	LS	$ 4,800.00	$ 4,800.00	0%	$ -
h)		300mm dia., 600mm deep Rip Rap c/w Terrafix 270R Geotextile (OPSD 810.010)	18	m^2	$ 82.00	$ 1,476.00	0%	$ -
i)		6.0mx1.6m, 300mm dia, 600mm deep c/w Terrafix 270R Geotextile (OPSD 810.010)	95	m^2	$ 82.00	$ 7,790.00	0%	$ -
B6		CCTV Inspection of All Sanitary Sewers (Two times)	1	LS	$ 7,500.00	$ 7,500.00	67%	$ 5,025.00
					Subtotal	**$ 976,854.00**		**$ 5,025.00**
		SCHEDULE C - Watermain						
C1	SP8	Supply & Install Watermain c/w All Associated Appurtenances						
a)		150mm dia. PVC DR 18	765	m	$ 160.00	$ 122,400.00	0%	$ -
b)		200mm dia. PVC DR 18	75	m	$ 295.00	$ 22,125.00	0%	$ -
C2	SP9	Supply & Install 25mm dia. Water Service Type 'K' Soft Copper	149	Each	$ 1,120.00	$ 166,880.00	0%	$ -
C3		Supply & Install Fire Hydrant c/w Valve & Lead	6	Each	$ 7,640.00	$ 45,840.00	0%	$ -
C4	SP11	Locate & Connect to Existing Watermain						
a)		Locate & Connect to Existing Watermain (150mm dia.) c/w Removals & Restoration on Seeley Avenue	1	Each	$ 1,590.00	$ 1,590.00	0%	$ -
b)		Locate & Connect to Existing Watermain (200mm dia.) c/w Removals & 200mm x 150mm Reducer on Werry Avenue	1	Each	$ 1,590.00	$ 1,590.00	0%	$ -
C5	SP10	Temporary Connection, Testing & Commissioning	1	L.S.	$ 8,210.00	$ 8,210.00	0%	$ -
C6		Water Sampling Station c/w Outlet to Sanitary Sewer	1	L.S.	$ 5,080.00	$ 5,080.00	0%	$ -
C7		Supply & Install Watermain Cap						
a)		150mm dia. Watermain Cap c/w Blowoff for Future Development Connection	1	Each	$ 1,290.00	$ 1,290.00	0%	$ -
b)		200 mm dia. Watermain Cap c/w Blowoff (Russell Street)	1	Each	$ 1,350.00	$ 1,350.00	0%	$ -
C8		Supply & Install 50mm Rigid Insulation Adjacent to Storm Structures	50	m^2	$ 65.00	$ 3,250.00	0%	$ -
					Subtotal	**$ 379,605.00**		**$ -**

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ITEM	SPEC.	DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	CURRENT CONTRACT TOTAL	PERCENT REMAINING	REMAINING CONTRACT TOTAL
		SCHEDULE D - Roadworks						
D1	SP12	Preparation & Fine Grading of Subgrade for Roadway	9395	m^2	$ 1.75	$ 16,441.25	0%	$ -
D2	SP13	Supply Place & Compact Road Materials						
a)		150mm Granular A	7600	m^2	$ 8.50	$ 64,600.00	0%	$ -
b)		450mm Granular B Type I	9395	m^2	$ 17.00	$ 159,715.00	0%	$ -
c)		50mm HL 4 Asphalt	7600	m^2	$ 15.00	$ 114,000.00	0%	$ -
d)		40mm HL 3 Asphalt	7600	m^2	$ 13.00	$ 98,800.00	76%	$ 74,811.36
D3		Supply & Install 100mm dia. Subdrain c/w Connections	2324	m	$ 23.00	$ 53,452.00	0%	$ -
D4	SP15	Supply & Place Concrete Barrier Curb with Standard Gutter (OPSD 600.040)	2324	m	$ 48.00	$ 111,552.00	0%	$ -
D5		Supply & Install Concrete Sidewalk						
a)		1.5m Wide Sidewalk (OPSD 301.010)	1162	m^2	$ 68.00	$ 79,016.00	100%	$ 79,016.00
b)		2.6m wide Sidewalk	32	m^2	$ 68.00	$ 2,176.00	100%	$ 2,176.00
D6		Concrete Toe Wall (OPSD 3120.100) Along Perimeter of Block 248	82	m	$ 270.00	$ 22,140.00	100%	$ 22,140.00
D8	SP13	Supply & Place Stormwater Management Facility Temporary Access Road	1743	m^2	$ 20.00	$ 34,860.00	0%	$ -
D9		Saw Cut Existing Asphalt & Mill 40mm Deep, 300mm Wide	8	m	$ 170.00	$ 1,360.00	0%	$ -
D10		Supply & Install Community Mail Box Pads	1	Each	$ 450.00	$ 450.00	100%	$ 450.00
D11		Supply & Install Steel Beam Guiderail Barricade (OPSD 912.532) Checkeboard Type III Sign	1	Each	$ 2,230.00	$ 2,230.00	0%	$ -
D12		Supply & Install Tigertail Sign c/w Posts (Per Township of Southgate Standard)	1	Each	$ 240.00	$ 240.00	0%	$ -
D13		Supply & Install Temporary Street Signage c/w Wood Posts (4" x 4")	11	Each	$ 410.00	$ 4,510.00	0%	$ -
D14		Supply & Install Temporary Stop Signs c/w Wood Posts (4" x 4")	6	Each	$ 350.00	$ 2,100.00	0%	$ -
		SCHEDULE D - Roadworks (Continued)						
D15		Supply & Install Permanent Street Signage c/w Posts						
a)		Street Name Sign	6	Each	$ 470.00	$ 2,820.00	100%	$ 2,820.00
b)		Stop Sign	5	Each	$ 420.00	$ 2,100.00	0%	$ -
c)		Road Not Assumed Sign	1	Each	$ 390.00	$ 390.00	0%	$ -
D16	SP16	Supply & Place Concrete Encased Utility Road Crossings						
a)		10 x 100mm Diameter Conduit	44	m	$ 240.00	$ 10,560.00	0%	$ -
b)		12 x 100mm Diameter Conduit	44	m	$ 260.00	$ 11,440.00	0%	$ -
c)		14 x 100mm Diameter Conduit	44	m	$ 270.00	$ 11,880.00	0%	$ -
D17	SP16	Supply & Place Direct Buried Utility Road Crossings						
a)		10 x 100mm Diameter Conduit	44	m	$ 180.00	$ 7,920.00	0%	$ -
b)		12 x 100mm Diameter Conduit	44	m	$ 200.00	$ 8,800.00	0%	$ -
c)		14 x 100mm Diameter Conduit	44	m	$ 210.00	$ 9,240.00	0%	$ -
					Subtotal	**$ 832,792.25**		**$ 181,413.36**

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ITEM	SPEC.	DESCRIPTION	CONTRACT QUANTITY	UNIT	UNIT PRICE	CURRENT CONTRACT TOTAL	PERCENT REMAINING	REMAINING CONTRACT TOTAL
		SCHEDULE E - Earthworks						
E1	SP1	Strip & Haul Topsoil Off-Site from Phases 4, 5, & 6 (0.4m Depth)	34000	m^3	$ 13.00	$ 442,000.00	0%	$ -
E2		Place Stockpiled Topsoil within SWM Facility 2	1400	m^3	$ 6.00	$ 8,400.00	0%	$ -
E3	SP2	Earthworks Operations within Phases 4, 5, & 6						
a)		Cut to Fill (Within Residential Area)	3000	m^3	$ 5.00	$ 15,000.00	0%	$ -
b)		Supply, Place & Compact Imported Fill (Mineral Soil)	46000	m^3	$ 18.50	$ 851,000.00	0%	$ -
c)		Supply, Place & Compact Imported Fill (Drainage Layer at 0.3m Depth)	25000	m^3	$ 22.25	$ 556,250.00	0%	$ -
E4	SP2	Earthworks Operations within SWM Facility 2 (Sediment Basin Conversion to SWM Facility)						
a)		Cut to Fill (Within SWM Facility)	550	m^3	$ 5.00	$ 2,750.00	0%	$ -
b)		Cut to Fill (Place Fill Within Residential Area)	15650	m^3	$ 5.00	$ 78,250.00	0%	$ -
E5		Temporary Overland Flow Channel						
a)	SP1	Strip & Haul Topsoil Off-Site (0.4m Depth)	2382	m^3	$ 13.00	$ 30,966.00	0%	$ -
b)	SP1	Haul Off-Site Portion of Topsoil Stockpile from Channel	12000	m^3	$ 13.00	$ 156,000.00	0%	$ -
c)	SP2	Cut to Fill (Place Within Residential Area)	5900	m^3	$ 5.00	$ 29,500.00	0%	$ -
d)	SP2	Cut to Fill (Within Channel Area)	2900	m^3	$ 5.00	$ 14,500.00	0%	$ -
e)	SP2	Cut to Fill (Raise Sediment Basin Berm)	600	m^3	$ 5.00	$ 3,000.00	0%	$ -
					Subtotal	**$ 2,187,616.00**	**0%**	**$ -**
		SCHEDULE F - Sediment and Erosion Controls						
F1		Supply, Install and Maintain Sediment and Erosion controls						
a)	SP19	Mud Mat	1	ea.	$ 4,590.00	$ 4,590.00	0%	$ -
b)		Sediment Trap (OPSD 219.220)	1	ea.	$ 1,130.00	$ 1,130.00	0%	$ -
c)		Straw Bale Check Dams (OPSD 219.180)	3	ea.	$ 170.00	$ 510.00	0%	$ -
d)	SP18	Heavy Duty Silt Fence (OPSD 219.130)	634	m	$ 15.00	$ 9,510.00	0%	$ -
F2		Modification to Existing Temporary Sediment Basin						
a)		Supply & Install Hickenbottom Structure	1	Each	$ 4,450.00	$ 4,450.00	0%	$ -
b)		Removal of Existing Hickenbottom Structure	1	LS	$ 460.00	$ 460.00	0%	$ -
					Subtotal	**$ 20,650.00**	**0%**	**$ -**

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		SCHEDULE G - SWM Facility						
G1	SP12	Preparation & Fine Grading	11500	m^2	$ 0.70	$ 8,050.00	0%	$ -
~~G2~~		~~Supply & Install Clay Liner (1.0m depth)~~	~~6700~~	~~m^3~~	~~$ 7.00~~	~~$ 46,900.00~~	~~0%~~	~~$~~
G3		Supply & Install Inlet Storm Sewer						
a)		Concrete Precast Headwall (OPSD 804.040) c/w Grate (804.050) & 1.2m High Chain Link Fence (OPSD 972.130)	1	Each	$ 20,264.00	$ 20,264.00	0%	$ -
b)		3000mm dia. Storm Maintenance Hole	1	Each	$ 22,200.00	$ 22,200.00	0%	$ -
c)	SP3	1200mm dia. Storm Sewer (CL-65D)	13	m	$ 800.00	$ 10,400.00	0%	$ -
d)		Temporary 1200mm dia. CSP	21	m	$ 510.00	$ 10,710.00	0%	$ -
e)		300mm dia, 600mm Deep Rip-Rap c/w Terrafix 270R Geotextile	34	m^2	$ 75.00	$ 2,550.00	0%	$ -
G4		Supply & Install Outlet Control Structure (Unnamed Tributary)						
a)		2400mm x 3000mm Precast Modified Control Structure	2	Each	$ 23,400.00	$ 46,800.00	0%	$ -
b)		Concrete Precast Headwall (OPSD 804.030) c/w Grate (OPSD 804.050)	1	Each	$ 5,200.00	$ 5,200.00	0%	$ -
c)		Terrafix Terramat FM 200 Protection Matting	97	m^2	$ 12.00	$ 1,164.00	0%	$ -
d)		675mm dia. Reverse Slope Storm Sewer (CL-65D)	13	m	$ 395.00	$ 5,135.00	0%	$ -
e)		675mm dia. Outlet Storm Sewer (CL-65D)	314	m	$ 420.00	$ 131,880.00	0%	$ -
f)		675mm dia. Double Concrete Headwall (OPSD 972.130 Modified) c/w 1.2m High Black Chain Link Fence	1	Each	$ 8,350.00	$ 8,350.00	0%	$ -
g)		300mm dia., 600mm Deep Rip Rap c/w Terrafix 270R Geotextile	10	m^2	$ 75.00	$ 750.00	0%	$ -
G5		Supply & Install Extended Detention Outlet Control Structure (Foley Drain)						
a)		1200mm dia. Concrete Maintenance Hole Structure (OPSD 701.010)	1	Each	$ 4,260.00	$ 4,260.00	0%	$ -
b)		Concrete Precast Headwall (OPSD 804.030) c/w Grate (OPSD 804.050) and 1.2m High Black Chain Link Fence	1	Each	$ 4,250.00	$ 4,250.00	0%	$ -
c)		450mm dia. Reverse Slope Storm Sewer (CL-65D)	18	m	$ 275.00	$ 4,950.00	0%	$ -
d)		450mm dia. Outlet Storm Sewer (CL-65D)	11	m	$ 275.00	$ 3,025.00	0%	$ -
		SCHEDULE G - SWM Facility (Continued)						
G6		Supply & Install Outlet Control Structure (Foley Drain)						
a)		3000mm x 1800mm Precast Modified Outlet Control Structure c/w 1.2m High Black Chain Link Fence	1	Each	$ 67,000.00	$ 67,000.00	0%	$ -
b)		750mm dia. Concrete (CL-65D) Storm Sewer	30	m	$ 515.00	$ 15,450.00	0%	$ -
c)		750mm dia. Double Concrete Headwall (OPSD 972.130 Modified) c/w 1.2m High Black Chain Link Fence	1	Each	$ 15,000.00	$ 15,000.00	0%	$ -
G7		Supply & Install Concrete Box Culvert (Forebay Berm)						
a)		2400mm x 1200mm Concrete Box Culvert c/w Concrete Bevelled End Sections	21.2	m	$ 3,900.00	$ 82,680.00	0%	$ -
b)		300mm dia, 600mm Deep Rip-Rap c/w Terrafix 270R Geotextile	57	m^2	$ 75.00	$ 4,275.00	0%	$ -
G8		Supply & Install Dispersion Outlet Stilling Basin (Foley Drain)						
a)		Concrete Precast Headwall (OPSD 804.030) c/w Grate (804.050) & 1.2m High Chain Link Fence (OPSD 972.130)	1	Each	$ 4,250.00	$ 4,250.00	0%	$ -
b)		300mm dia., 600mm Deep Rip Rap	160	m^2	$ 75.00	$ 12,000.00	0%	$ -
c)		Gabion Baskets	120	sqfm	$ 535.00	$ 64,200.00	0%	$ -
G9		Supply & Install Barrier Gates (per Township of Southgate STD L3)	2	Each	$ 2,125.00	$ 4,250.00	100%	$ 4,250.00
					Subtotal	**$ 269,105.00**		**$ 4,250.00**

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		SCHEDULE H - LANDSCAPING AND STREETLIGHTING						
H4		Supply and Install Streetlight Poles and Luminaires	29	ea	$ 3,500.00	$ 101,500.00	0%	$ -
					Subtotal	**$ 101,500.00**		**$ -**

SUMMARY OF CONTRACT PRICES

SCHEDULE A - Sanitary Sewer		$ 5,025.00
SCHEDULE B - Storm Sewers		$ 5,025.00
SCHEDULE C - Watermain		$ -
SCHEDULE D - Roadworks		$ 181,413.36
SCHEDULE E - Earthworks		$ -
SCHEDULE F - Sediment and Erosion Controls		$ -
SCHEDULE G - SWM Facility		$ 4,250.00
SCHEDULE H - LANDSCAPING AND STREETLIGHTING		$ -
Subtotal - Schedules A-D,F-H	$ 3,049,934.25	$ 195,713.36
115% - Remaining Works		$ 225,070.36
10% - Completed Works		$ 285,422.09