

ADDITION TO:

Regular Meeting of Council
Wednesday, July 17, 2019
Town of Drayton Valley Council Chambers

<u>Addition:</u>	Pages
Section 7.0 Decision Items	
7.3 50 Avenue Storm Water & Road Improvements (CP 392)	2-8

TOWN OF DRAYTON VALLEY REQUEST FOR DECISION

SUBJECT:	50 Avenue Storm Water & Road Improvements (CP 392)
MEETING:	17 July 2019 Regular Meeting of Council
PRESENTED BY:	Rick Wheatley Director of Engineering

1. PROPOSAL AND BACKGROUND:

In 2018 Associated Engineering (AE) was retained to undertake a conceptual study for improving the storm water drainage along 50 Avenue (between 50th street and Beckett Avenue)/43street (50th Avenue to 43 Ave.).

The preferred option of design included a low impact design (LID) incorporating a bio-swale which will ensure that surface flow storm water will be attenuated and thereby allowing storm run-off to be managed and controlled in an environmentally friendly fashion.

The full scope of the work is estimated at \$7,400,000.

The Bio-swale concept will act as an intercepting grassed/shrub/rip-rap lined open conduit which will traverse the road way and transition to an underground storm water pipe.

Based on the overall final project build out estimated cost (\$7,400,000.00) it was determined by Administration to phase the overall project over a period of 2 to 4 years.

Phase 1 project scope for 2019 focusses on 50th Avenue (47th Avenue and 43 Street) which encapsulates a scope of full length bio-swale, storm water pipe install and full width asphalt pavement install.

During March of 2019, AE completed the overall design concept and started the detail design for the project. Tenders were advertised on Alberta Purchasing Connection (APC) June 14, 2019, for a period of approximately 3 weeks.

There were three responsive bids received and opened in public on July 05, 2019.

Bids were received from the following companies:

E-Construction	\$2,014,203.84
Parkway Construction	\$1,919,202.95
Carmacks Enterprises	\$3,152,972.00

Parkway Enterprises of Drayton Valley was the low bidder at \$1,919,202.95 not including GST, engineering and contingency.

2. BUDGET / GRANT / RESOURCE IMPLICATIONS:

The initial budget for this project from the Capital Budget is \$1,300,000. These funds are from grant funding.

Based on the 2019 budget amount there is a shortfall of \$ \$883,202.00 (\$2,183,202.00 - \$1,300,000.00 including an allowance for engineering fees and project contingency).

Table 1 outlines how the shortfall budget amount for 2019 can be accommodated.

Table 1 - Funding Re-allocation for 50 Ave. (Bio-Swale) Improvements.

Project	Budget number	Proposed Budget
50 Avenue Improvements (Bio-swales)	\$ 1,300,000.00	\$ 1,300,000.00
Funds from other 2019 projects		
Signage - CP 331	\$ 40,000.00	\$ 1,340,000.00
Sidewalk Replacement - CP 384	\$ 75,000.00	\$ 1,415,000.00
Road Improvements Program - CP 400	\$ 300,000.00	\$ 1,715,000.00
Meier Avenue CIPP - CP 401	\$ 300,000.00	\$ 2,015,000.00
Outdoor Water and Trail convergence Park - CP 411	\$ 40,000.00	\$ 2,055,000.00
WWTP Landscaping - CP 415	\$ 150,000.00	\$ 2,205,000.00

3. ALIGNMENT WITH LEGISLATION AND TOWN PLANS:

Type of Document	Yes ~ N/A ~ Partial	Comments
Provincial Acts / Regulations		
Municipal Bylaws		
Municipal Development Plan		
Sustainability Vision 2019-2021		
Town of Drayton Valley Strategic Plan 2019-2021	YES	Goal 1 - Building Municipal Economic Resilience. Dedicate resources to infrastructure as an investment.
Other Plans or Policies	YES	2017- 2018 Capital Plan TF-01-15 Tendering and Procurement Policy

4. POTENTIAL MOTIONS:



- A. That Council award the contract to Parkway Enterprises of Drayton Valley in the amount of \$1,919,202.95 (not including GST), Engineering of \$164,000 and contingency of \$100,000 for the construction of CP 392 (50 Avenue Improvements and Bio-swales) as presented by Administration subject to Parkway providing written confirmation that the works will commence by no later than August 05, 2019.
- B. That Council defers this item back to Administration for further review and information.
- C. That Council decline awarding the contract to Parkway Enterprises of Drayton Valley in the amount of \$1,919,202.95 (not including GST), engineering of \$164,000 and contingency of \$100,000 for the construction of CP 392 (50 Avenue Improvements and Bio-swales) as presented by Administration subject to Parkway providing written confirmation that the works will commence by no later than August 05, 2019.

5. RECOMMENDATION

["That Council award the contract to Parkway Enterprises of Drayton Valley in the amount of \$1,919,202.95 (not including GST), Engineering of \$164,000 and contingency of \$100,000 for a total cost of \$2,183,202.95 for the construction of CP 392 (50 Avenue Improvements and Bio-swales) as presented by Administration subject to Parkway providing written confirmation that the works will commence no later than August 05, 2019."]

6. ATTACHMENTS:

1. Unofficial Tender results
2. Letter from Associated Engineering

REPORT PREPARED BY:	<i>Richard Wheatly</i>	REVIEWED BY:	
APPROVED BY:			

5 JULY 2019.

Page 5 of 8 CDR, I

Parkway Enterprises Ltd.	\$ 1,919,202.95	✓
Carmacks Enterprises Ltd.	\$ 3,152,974. 8500	✓
E Construction	\$ 2,014,203.84	✓

Grant Associated

@ opening 2:05pm.

Richard Wheatley
✓ Aggas L. Legeas
Peter Cheng.



Associated
Engineering

GLOBAL PERSPECTIVE.
LOCAL FOCUS.

Associated Engineering Alberta Ltd.
500, 9888 Jasper Avenue
Edmonton, Alberta, Canada, T5J 5C6

TEL: 780.451.7666
FAX: 780.454.7698
www.ae.ca

July 9, 2015

File: 2018-3312.02.C.1.03

Rick Wheatley
Director of Engineering
Town of Drayton Valley
Box 6837 5120 52 Street
Drayton Valley, AB, T7A 1A1

**Re: DRAYTON VALLEY ROADWAY IMPROVEMENTS
RECOMMENDATION FOR AWARD OF CONTRACT**

Dear Rick:

Bids were received for the above project and opened at 2:00pm on July 5, 2019 in the Town of Drayton Valley offices. A summary of the bids received, and the anticipated project cost analysis are attached. All tenders have been checked and the amounts shown in the summary have been found to be correct.

Bidder	Total Bid Price
Parkway Enterprises Ltd.	\$1,919,202.95
E Construction	\$2,014,203.84
Carmacks Enterprises Ltd.	\$3,152,974.00

The lowest compliant bid of \$1,919,202.95 was submitted by Parkway Enterprises Ltd which is \$164,488.55 (7.9%) less than Associated Engineering's pre-bid estimate of \$2,083,691.50.

Listed below are the subcontractors listed as part of Parkway Enterprises Ltd. Bid:

- Border Paving – Asphalt Concrete Paving
- ACP Applied Products – Cold Milling
- Mar-Wes Holdings Ltd. – Landscaping
- Top Form Concrete Ltd. – Concrete
- AAA Striping – Line Painting
- Alberta Pipe Inspection Ltd. – CCTV Inspection
- Challenger Geomatics Ltd. – Surveying

A Carbon
Neutral
Company





July 9, 2015
Rick Wheatley
Town of Drayton Valley
- 2 -

Parkway Enterprises Ltd. is located in Drayton Valley and as such are familiar with the Town and Engineering staff and have completed projects successfully in the area. The majority of the sub-contractors listed are well known in the local industry and AE is familiar with their work. The landscaping sub-contractor is listed as Mar-Wes Holdings Ltd., based in Edson. AE has had limited experience with this Landscaping Contractor but found its work to be acceptable.

Parkway Enterprises Ltd.'s proposed schedule includes mobilization at the beginning of August 2019, with construction completion in the first week of October. The schedule meets the requirements as set out in the Tender Documents.

Having recognized the above, we recommend the contract be awarded to Parkway Enterprises Ltd.

If you are in agreement with our recommendation, in accordance with Article No. 1.8 of the Instructions to Bidders, it would be in order for you to issue a Notice of Award to the successful Bidder. Please provide a copy of that letter to us for our records.

Yours truly,

Grant Hall
P.Eng.

GH.eh

Enclosure(s):

- Bid Analysis Spreadsheet

PART A: 50TH AVENUE Bid Analysis and Comparison

		Parkway Enterprises Ltd.		E Construction		Carmacks		AE	
		Unit Price	Extension	Unit Price	Extension	Unit Price	Extension	Unit Price	Extension
A-1.0 GENERAL									
A-1.1	Mobilization / Demobilization	LS 1	\$ 40,520.00 \$ 40,520.00	\$ 189,200.00 \$ 189,200.00	\$ 30,000.00 \$ 30,000.00	\$ 120,000.00 \$ 120,000.00			
A-1.2	Survey	LS 1	\$ 15,500.00 \$ 15,500.00	\$ 15,000.00 \$ 15,000.00	\$ 42,000.00 \$ 42,000.00	\$ 20,000.00 \$ 20,000.00			
A-1.3	Miscellaneous Equipment, Material and Labour	CA 1	\$ 100,000.00 \$ 100,000.00	\$ 100,000.00 \$ 100,000.00	\$ 100,000.00 \$ 100,000.00	\$ 100,000.00 \$ 100,000.00			
	TOTAL PART A-1.0 - GENERAL		\$ 156,020.00	\$ 304,200.00	\$ 172,000.00	\$ 240,000.00			
A-2.0 REMOVALS									
A-2.1	Remove and Dispose Concrete								
	.1 Monolithic Sidewalk (c/w Curb and Gutter)	m ² 30	\$ 55.00 \$ 1,650.00	\$ 25.10 \$ 753.00	\$ 77.00 \$ 2,310.00	\$ 26.00 \$ 780.00			
	.2 Separate Sidewalk	m ² 35	\$ 55.00 \$ 1,925.00	\$ 31.05 \$ 1,086.75	\$ 76.00 \$ 2,660.00	\$ 26.00 \$ 910.00			
	.3 Curb and Gutter (All Types)	lm. 375	\$ 33.00 \$ 12,375.00	\$ 47.30 \$ 17,737.50	\$ 220.00 \$ 82,500.00	\$ 31.00 \$ 11,625.00			
	.4 Swales (All Types)	lm. 274	\$ 55.00 \$ 15,070.00	\$ 49.65 \$ 13,604.10	\$ 235.00 \$ 64,390.00	\$ 31.00 \$ 8,494.00			
	.5 Asphalt (60-125 mm depth at bioswale locations)	m ² 1350	\$ 23.00 \$ 31,050.00	\$ 11.70 \$ 15,795.00	\$ 36.00 \$ 48,600.00	\$ 10.00 \$ 13,500.00			
	.6 Remove and Dispose of Existing Gravel Structure (300 mm Depth at bioswale locations)	m ² 1350	\$ 7.80 \$ 10,530.00	\$ 5.75 \$ 7,762.50	\$ 58.00 \$ 78,300.00	\$ 10.00 \$ 13,500.00			
A-2.2	Cold Milling								
	.1 50 mm Depth	m ² 6700	\$ 4.10 \$ 27,470.00	\$ 3.75 \$ 25,125.00	\$ 7.90 \$ 52,930.00	\$ 3.00 \$ 20,100.00			
	TOTAL PART A-2.0 - REMOVALS		\$ 100,070.00	\$ 81,863.85	\$ 331,690.00	\$ 68,909.00			
A-3.0 SURFACE WORKS									
A-3.1	Road Reconstruction								
	.1 Supply and Install Hot Mix Asphalt Concrete Pavement (50 mm Compacted Lift)	m ² 6700	\$ 19.07 \$ 127,769.00	\$ 17.15 \$ 114,905.00	\$ 28.50 \$ 190,950.00	\$ 17.00 \$ 113,900.00			
	.2 Supply and Install Hot Mix Asphalt Concrete Pavement (60 mm Compacted Base Lift over storm pipe installation)	m ² 2800	\$ 27.23 \$ 76,244.00	\$ 21.05 \$ 58,940.00	\$ 33.00 \$ 92,400.00	\$ 23.00 \$ 64,400.00			
	.3 Supply and Install Hot Mix Asphalt Concrete Pavement (60 mm Compacted Base Lift at new concrete curb installation)	m ² 1300	\$ 33.03 \$ 42,939.00	\$ 24.05 \$ 31,265.00	\$ 34.00 \$ 44,200.00	\$ 23.00 \$ 29,900.00			
	.4 Supply and Install Granular Base Course								
	.1 Collector Road (380 mm Depth)	m ² 2850	\$ 25.45 \$ 72,532.50	\$ 34.30 \$ 97,755.00	\$ 48.60 \$ 138,510.00	\$ 38.00 \$ 108,300.00			
	.5 Supply and Install Non-Woven Geotextile (Subject to Deletion)	m ² 1500	\$ 2.75 \$ 4,125.00	\$ 2.50 \$ 3,750.00	\$ 5.00 \$ 7,500.00	\$ 4.00 \$ 6,000.00			
	.6 Subgrade Preparation (300 mm Depth)	m ² 2850	\$ 1.50 \$ 4,275.00	\$ 6.00 \$ 17,100.00	\$ 8.00 \$ 22,800.00	\$ 6.00 \$ 17,100.00			
	.7 Compacted Asphalt Levelling Course (Deletable)	tonne 100	\$ 152.00 \$ 15,200.00	\$ 370.00 \$ 37,000.00	\$ 180.00 \$ 18,000.00	\$ 160.00 \$ 16,000.00			
A-3.2	Thermoplastic Pavement Marking								
	.1 100 mm Yellow Centerline	lm. 455	\$ 21.60 \$ 9,828.00	\$ 23.45 \$ 10,669.75	\$ 30.00 \$ 13,650.00	\$ 19.00 \$ 8,645.00			
	.2 200 mm Crosswalk Line	lm. 336	\$ 51.00 \$ 17,136.00	\$ 46.95 \$ 15,775.20	\$ 60.00 \$ 20,160.00	\$ 45.00 \$ 15,120.00			
	.3 400 mm Stop Bar	ea 17	\$ 495.00 \$ 8,415.00	\$ 117.00 \$ 1,989.00	\$ 150.00 \$ 2,550.00	\$ 550.00 \$ 9,350.00			
	.4 600 mm Standard Mid-Block Crosswalk Bars	lm. 74	\$ 145.00 \$ 10,730.00	\$ 147.00 \$ 10,878.00	\$ 187.00 \$ 13,838.00	\$ 150.00 \$ 11,100.00			
	.5 Turn Symbol	ea 5	\$ 480.00 \$ 2,400.00	\$ 587.00 \$ 2,935.00	\$ 751.00 \$ 3,755.00	\$ 575.00 \$ 2,875.00			
A-3.3	Concrete Placement								
	.1 Supply and Install Monolithic Sidewalk (c/w Curb and Gutter)								
	.1 1.5 m Wide								
	.1 Replace Existing	lm. 30	\$ 325.00 \$ 9,750.00	\$ 403.00 \$ 12,090.00	\$ 550.00 \$ 16,500.00	\$ 200.00 \$ 6,000.00			
	.2 Supply and Install Separate Sidewalk								
	.1 1.5 m Wide								
	.1 Proposed Locations	lm. 96	\$ 168.00 \$ 16,128.00	\$ 272.00 \$ 26,112.00	\$ 314.00 \$ 30,144.00	\$ 200.00 \$ 19,200.00			
	.3 Supply and Install Straight Face Curb and Gutter								
	.1 450 mm Standard								
	.1 Proposed Locations	lm. 595	\$ 178.00 \$ 105,910.00	\$ 187.00 \$ 111,265.00	\$ 197.00 \$ 117,215.00	\$ 210.00 \$ 124,950.00			
	.4 Supply and Install Para-Ramps	ea 34	\$ 2,800.00 \$ 95,200.00	\$ 1,829.00 \$ 62,186.00	\$ 1,800.00 \$ 61,200.00	\$ 560.00 \$ 19,040.00			
	.5 Swales (1 m Wide)	lm. 184	\$ 185.00 \$ 34,040.00	\$ 232.00 \$ 42,688.00	\$ 258.00 \$ 47,472.00	\$ 210.00 \$ 38,640.00			
	.6 Swales (6 m Wide)	lm. 90	\$ 1,020.00 \$ 91,800.00	\$ 958.00 \$ 86,220.00	\$ 825.00 \$ 74,250.00	\$ 500.00 \$ 45,000.00			
	.7 200 mm Depth Fillcrete (1 m Wide)	m ² 254	\$ 244.00 \$ 61,976.00	\$ 350.00 \$ 88,900.00	\$ 512.00 \$ 130,048.00	\$ 150.00 \$ 38,100.00			
	TOTAL PART A-3.0 - SURFACE WORKS		\$ 806,397.50	\$ 832,422.95	\$ 1,045,142.00	\$ 693,620.00			
A-4.0 STORM SEWER									
A-4.1	Storm Sewer Main								
	.1 Remove and Replace Existing using Trench Box Method								
	.1 Replace with 450 mm Dia. PVC DR35	lm. 52	\$ 645.00 \$ 33,540.00	\$ 456.00 \$ 23,712.00	\$ 1,480.00 \$ 76,960.00	\$ 745.00 \$ 38,740.00			
	.2 Replace with 675 mm Dia. PVC DR35	lm. 32	\$ 725.00 \$ 23,200.00	\$ 750.00 \$ 24,000.00	\$ 2,020.00 \$ 64,640.00	\$ 1,115.00 \$ 35,680.00			
	.2 Install New using Trench Box Method								
	.1 375 mm Dia. PVC DR35	lm. 208	\$ 498.00 \$ 103,584.00	\$ 359.00 \$ 74,672.00	\$ 1,000.00 \$ 208,000.00	\$ 565.00 \$ 117,520.00			
	.2 450 mm Dia. PVC DR35	lm. 152	\$ 545.00 \$ 82,840.00	\$ 419.00 \$ 63,688.00	\$ 1,186.00 \$ 180,272.00	\$ 675.00 \$ 102,600.00			
A-4.2	Over-Excavation (Including Installation of Washed Rock)	m ³ 40	\$ 89.00 \$ 3,560.00	\$ 122.00 \$ 4,880.00	\$ 272.00 \$ 10,880.00	\$ 330.00 \$ 13,200.00			
A-4.3	Remove and Replace Existing Manholes (Including Frame and Cover)								
	.1 Replace with 1200 mm I.D. Barrel	v.m. 9	\$ 3,380.00 \$ 30,420.00	\$ 2,985.00 \$ 26,865.00	\$ 6,000.00 \$ 54,000.00	\$ 3,400.00 \$ 30,600.00			
	.2 Replace with 1500 mm I.D. Barrel	v.m. 3	\$ 3,950.00 \$ 11,850.00	\$ 5,128.00 \$ 15,384.00	\$ 8,500.00 \$ 25,500.00	\$ 4,100.00 \$ 12,300.00			
	.3 Type NF 80 Frame and Cover	ea 4	\$ 1,010.00 \$ 4,040.00	\$ 973.00 \$ 3,892.00	\$ 1,500.00 \$ 6,000.00	\$ 330.00 \$ 1,320.00			
A-4.4	Install New Manholes (Including Frame and Cover)								
	.1 1200 mm I.D. Barrel	v.m. 18	\$ 2,400.00 \$ 43,200.00	\$ 2,794.00 \$ 50,292.00	\$ 5,000.00 \$ 90,000.00	\$ 3,100.00 \$ 55,800.00			
	.2 Type NF 80 Frame and Cover	ea 6	\$ 1,010.00 \$ 6,060.00	\$ 973.00 \$ 5,838.00	\$ 1,500.00 \$ 9,000.00	\$ 1,500.00 \$ 9,000.00			
A-4.5	Catch Basin Leads								
	.1 Remove and Replace Existing using Trench Box Method								
	.1 Replace with 250 mm Dia. PVC DR35	lm. 85	\$ 445.00 \$ 37,825.00	\$ 310.00 \$ 26,350.00	\$ 910.00 \$ 77,350.00	\$ 415.00 \$ 35,275.00			
	.2 Replace with 300 mm Dia. PVC DR35	lm. 10	\$ 465.00 \$ 4,650.00	\$ 352.00 \$ 3,520.00	\$ 1,600.00 \$ 16,000.00	\$ 495.00 \$ 4,950.00			
	.2 Install New using Trench Box Method								
	.1 250 mm Dia. PVC DR35	lm. 150	\$ 405.00 \$ 60,750.00	\$ 310.00 \$ 46,500.00	\$ 780.00 \$ 117,000.00	\$ 375.00 \$ 56,250.00			
A-4.6	Remove and Replace Existing Catch Basins (Including Frame and Cover)								
	.1 Replace with 900 mm I.D. Barrel								
	.1 NF 51 Frame and Cover	ea 8	\$ 8,946.00 \$ 71,568.00	\$ 6,926.00 \$ 55,408.00	\$ 11,300.00 \$ 90,400.00	\$ 7,700.00 \$ 61,600.00			
	.2 DK 7 Frame and Cover	ea 1	\$ 9,020.00 \$ 9,020.00	\$ 7,403.00 \$ 7,403.00	\$ 11,900.00 \$ 11,900.00	\$ 7,700.00 \$ 7,700.00			
A-4.7	Install New Catch Basins (Including Frame and Cover)								
	.1 900 mm I.D. Barrel								
	.1 NF 51 Frame and Cover	ea 6	\$ 8,446.00 \$ 50,676.00	\$ 6,209.00 \$ 37,254.00	\$ 8,900.00 \$ 53,400.00	\$ 7,000.00 \$ 42,000.00			
	.2 NF 39 (c/w Short Trash Gate) Catch Basin Frame and Cover	ea 3	\$ 8,946.00 \$ 26,838.00	\$ 7,140.00 \$ 21,420.00	\$ 8,400.00 \$ 25,200.00	\$ 7,000.00 \$ 21,000.00			
A-4.8	Install New Culvert								
	.1 500 mm Dia. Corrugated Steel Pipe	lm. 10	\$ 425.00 \$ 4,250.00	\$ 537.00 \$ 5,370.00	\$ 719.00 \$ 7,190.00	\$ 385.00 \$ 3,850.00			
A-4.9	CCTV Sewer Inspection								
	.1 Construction Completion	lm. 444	\$ 9.50 \$ 4,218.00	\$ 16.10 \$ 7,148.40	\$ 43.00 \$ 19,092.00	\$ 12.00 \$ 5,328.00			
	.2 End of Warranty Period	lm. 444	\$ 9.50 \$ 4,218.00	\$ 16.10 \$ 7,148.40	\$ 53.00 \$ 23,532.00	\$ 18.00 \$ 7,992.00			
A-4.10	Supply and Install 200 mm Dia. Wrapped Perforated PVC DR35	lm. 200	\$ 48.00 \$ 9,600.00	\$ 134.00 \$ 26,800.00	\$ 281.00 \$ 56,200.00	\$ 565.00 \$ 113,000.00			
	TOTAL PART A-4.0 - STORM SEWER		\$ 625,907.00	\$ 537,544.80	\$ 1,222,516.00	\$ 775,705.00			
A-5.0 BIOSWALES									
A-5.1	Common Excavation	m ³ 930	\$ 28.00 \$ 26,040.00	\$ 15.35 \$ 14,275.50	\$ 90.00 \$ 83,700.00	\$ 20.00 \$ 18,600.00			
A-5.2	Supply and Install Topsoil (600 mm)	m ² 1090	\$ 26.00 \$ 28,340.00	\$ 53.20 \$ 57,988.00	\$ 52.00 \$ 56,680.00	\$ 25.00 \$ 27,250.00			
A-5.3	Supply and Install 25 mm Dia. Washed Rock (Swale Drain)	m ³ 230	\$ 75.00 \$ 17,250.00	\$ 95.40 \$ 21,942.00	\$ 96.00 \$ 22,080.00	\$ 210.00 \$ 48,300.00			
A-5.4	Supply and Install Filter Sand (Swale Drain)	m ³ 30	\$ 95.00 \$ 2,850.00	\$ 144.00 \$ 4,320.00	\$ 180.00 \$ 5,400.00	\$ 155.00 \$ 4,650.00			
A-5.5	Supply and Install Filter Fabric (Sand and Washed Rock Layers)	m ² 1830	\$ 9.00 \$ 16,470.00	\$ 3.00 \$ 5,490.00	\$ 5.00 \$ 9,150.00	\$ 4.00 \$ 7,320.00			
A-5.6	Supply and Install Naturalized Seeding	m ² 1075	\$ 4.00 \$ 4,300.00	\$ 3.25 \$ 3,493.75	\$ 3.00 \$ 3,225.00	\$ 7.00 \$ 7,525.00			
A-5.7	Supply and Install 200 mm Depth 25 mm Dia. Washed Rock Over Filter Fabric (Non-Planting Zone in Bioswale)	m ² 15	\$ 91.48 \$ 1,372.20	\$ 71.30 \$ 1,069.50	\$ 68.00 \$ 1,020.00	\$ 75.00 \$ 1,125.00			
A-5.8	Supply and Install SC32 Erosion Control Blanket	m ² 215	\$ 3.25 \$ 698.75	\$ 5.25 \$ 1,128.75	\$ 5.00 \$ 1,075.00	\$ 16.00 \$ 3,440.00			
A-5.9	Supply and Install 200 mm Dia. Silt Sock (4 Oz.)	lm. 100	\$ 20.00 \$ 2,000.00	\$ 15.10 \$ 1,510.00	\$ 12.00 \$ 1,200.00	\$ 20.00 \$ 2,000.00			
A-5.10	Supply and Install Boulder								
	.1 Small (0.6 m - 0.8 m Dia.)	ea 23	\$ 109.00 \$ 2,507.00	\$ 147.00 \$ 3,381.00	\$ 150.00 \$ 3,450.00	\$ 200.00 \$ 4,600.00			
	.2 Medium (0.8 m to 1.0 m Dia.)	ea 28	\$ 130.80 \$ 3,662.40	\$ 180.00 \$ 5,040.00	\$ 211.00 \$ 5,908.00	\$ 500.00 \$ 14,000.00			
	.3 Large (1.0 m to 1.2 m Dia.)	ea 11	\$ 157.00 \$ 1,727.00	\$ 272.00 \$ 2,992.00	\$ 226.00 \$ 2,486.00	\$ 900.00 \$ 9,900.00			
	TOTAL PART A-5.0 - BIOSWALES		\$ 107,217.35	\$ 122,630.50	\$ 195,374.00	\$ 148,710.00			
A-6.0 PLANT MATERIAL									
A-6.1	Supply and Install Trembling Aspen (60 mm Caliper)	ea 11	\$ 605.00 \$ 6,655.00	\$ 802.00 \$ 8,822.00	\$ 928.00 \$ 10,208.00	\$ 650.00 \$ 7,150.00			
A-6.2	Supply and Install Siberian Coral Dogwood (750 mm Height)	ea 25	\$ 61.50 \$ 1,537.50	\$ 71.30 \$ 1,782.50	\$ 81.00 \$ 2,025.00	\$ 60.00 \$ 1,500.00			
A-6.3	Supply and Install Blue Fox Willow (450 mm Height)	ea 151	\$ 49.50 \$ 7,474.50	\$ 43.90 \$ 6,628.90	\$ 55.00 \$ 8,305.00	\$ 50.00 \$ 7,550.00			
A-6.4	Supply and Install Pussy Willow (750 mm Height)	ea 19	\$ 55.00 \$ 1,045.00	\$ 71.30 \$ 1,354.70	\$ 81.00 \$ 1,539.00	\$ 60.00 \$ 1,140.00			
A-6.5	Supply and Install American Cranberry (600 mm Height)	ea 39	\$ 49.50 \$ 1,930.50	\$ 85.71 \$ 3,342.69	\$ 208.00 \$ 8,112.00	\$ 60.00 \$ 2,340.00			
A-6.6	Supply and Install Pale Indian Grass (2 Years Old)	ea 125	\$ 27.50 \$ 3,437.50	\$ 21.95 \$ 2,743.75	\$ 27.00 \$ 3,375.00	\$ 20.00 \$ 2,500.00			
A-6.7	Supply and Install Moor Grass (2 Years Old)	ea 265	\$ 22.00 \$ 5,830.00	\$ 23.30 \$ 6,174.50	\$ 27.00 \$ 7,155.00	\$ 20.00 \$ 5,300.00			
A-6.8	Supply and Install Columbine (2 Years Old)	ea 224	\$ 19.80 \$ 4,435.20	\$ 23.30 \$ 5,219.20	\$ 27.00 \$ 6,048.00	\$ 20.00 \$ 4,480.00			
A-6.9	Supply and Install Brown-Eyed Susan (2 Years Old)	ea 735	\$ 19.80 \$ 14,553.00	\$ 21.95 \$ 16,133.25					