

March 21, 2025

VIA EMAIL (Pamela.McGarrigle@novascotia.ca)

Ms. Pamela McGarrigle, Clerk of the Board N.S. Utility and Review Board 3rd Floor, Summit Place, 1601 Lower Water Street P. O. Box 1692, Postal Unit M Halifax, NS B3J 3S3

Dear Ms. McGarrigle:

Re: Sullivan's Pond Storm Sewer Replacement Phase 2, Part II (Sawmill Creek) Project

Halifax Water is currently seeking funding for the Sullivan's Pond Storm Sewer Replacement Phase 2, Part II (Sawmill Creek) project for an estimated total cost of \$19,249,000, including net HST as identified in Attachment 1.

Halifax Water has identified the need to replace its existing stormwater sewer system that runs from Sullivan's Pond to Dartmouth Cove. This stormwater system serves an urban watershed of approximately 1500 ha in size. The stormwater sewer is approximately 600 meters in length and was installed in the early 1970s. The stormwater sewer is made of corrugated steel pipe and is at the end of its service life and needs to be replaced.

The upper section of the stormwater sewer system from Sullivan's Pond to a point within Starr Park just north of Irishtown Road was replaced in 2018 as Phase 1 of the overall project to replace the complete stormwater sewer system. The Phase 1 project consisted of a combination of box culvert and open channel sections being installed to convey the stormwater flows. In addition to conveyance, the project also included various environmental considerations including the regulatory requirement for fish passage.

Phase 2, Part I, is currently under construction. The project was awarded to Dexter Construction in the spring of 2024. Construction began in August and will be completed in the summer of 2025.

Phase 2, Part I is integrated with HRM and involves upgrades to Martins Park, local streets and intersections. The new storm water system will be constructed using a combination of an open channel system and box culverts where vehicle passage is required. The completion of Phase 2, Part I, will provide new storm water infrastructure from Dartmouth Cove to the north side of Dundas Street. A new road will connect Alderney Drive to Canal Street, near the Dundas Street intersection. This new road will be used for traffic diversion during Part II of the project.

Phase 2, Part II, will consist of much of the same design elements of open channel and box culvert sections and will connect to Phase 1 within Starr Park. In addition, a water control pressure reducing valve (PRV) chamber and related watermain piping will be replaced as part of the Part II work. The Phase 2, Part II project will also satisfy the same environmental and regulatory requirements as Phase 1. This includes consideration of climate change impacts and adaptation as well as working with Fisheries and Oceans Canada (DFO) to ensure the project complies with their regulations.

The Phase 2, Part II project is fully integrated and coordinated with the municipal work being completed by the HRM within the corridor. This includes street work, traffic signals, active transportation trails and landscaping within the new Starr Pond area.

As part of the Sullivan's Pond Phase 2, Part II project, Halifax Water will be including a scope of work that separates the sanitary and storm sewers, from Starr Lane to Canal Street. This project was identified in Halifax Water's Integrated Resource Plan (IRP) and will take advantage of the proximity of the Sullivan's Pond Phase 2, Part II project. The new sanitary sewer is being installed in portions of the street that will already be under construction.

CBCL was retained to carry out the engineering services for the project through a competitive public procurement process.

The design work for the Phase 2, Part II Stormwater system is approximately 90% complete. Halifax Water intends to tender the work in the spring of 2025 so that construction can begin in the summer of 2025. The project has received approval from the Nova Scotia Department of Environment and Climate Change (NSECC). Coordination with DFO is on-going. CBCL has completed a cost estimate for Phase 2, Part II, this estimate is included in Attachment 2.

The key milestones for this project are as follows:

Tender Release: April/May 2025 Tender Close: May/June 2025

Construction Start Date: Summer 2025

Funding in the amount of \$16,117,000 is included in 2025/2026 and future 2026/2027 Capital Budget – Stormwater under 1.0000145 "Sullivan's Pond Storm Sewer System Replacement Phase 2 Irishtown Rd to Harbour".

Funding in the amount of \$1,504,000 is included in 2025/2026 and future 2026/2027 Capital Budget – Water under 3.0000587 "Prince Albert Road Transmission Main/PRV Replacement".

Funding in the amount of \$1,628,000 is included in 2025/2026 and future 2026/2027 Capital Budget – Wastewater under 2.0000835 "LoWSCA: Canal Street Separation".

HRM has signed an agreement with the Provincial Government as part of the Municipal Capital Growth Program. Through this agreement, the overall project will receive a total of

\$14,088,759.77 that can be used towards Design, Project Management, Construction, etc. Halifax Water is working with HRM to determine eligible project costs to disburse the funding across the project between HRM and Halifax Water assets.

The Halifax Water Board approved funding for this project on November 28, 2024.

Phase 2, Part II is the final phase of the overall Sullivan's Pond Project. The end result will provide new stormwater infrastructure to pass the 1-100-year stormwater flow. The new infrastructure will also provide a connection passable by fish from Sullivan's Pond to the tidal water at Dartmouth Cove.

The proposed expenditure meets the "NO REGRETS- UNAVOIDABLE NEEDS" approach of the 2012 Integrated Resource Plan. The proposed work meets the NR-UN criteria of, "Required to ensure infrastructure system integrity and safety". The project meets these criteria based on the following: The current infrastructure is failing due to age and end of life (Asset Management).

Accordingly, we are now requesting approval from the NSUARB for \$19,249,000 for the Sullivan's Pond Storm Sewer Replacement Phase 2, Part II (Sawmill Creek) project. Please contact me if you have any questions regarding this submission.

Respectfully submitted,

— Signed by: Kenda MacKenzie

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Kenda MacKenzie, P.Eng. General Manager/CEO

Attachments:

- 1. Total Project Cost Estimate (Pre-Tender)
- 2. Pre-Tender Construction Cost Estimate

Sullivan's Pond Phase 2 - Part II - Jan 29, 2025

PRE TENDER COST ESTIMATE

Total Estimated Stormwater System Cost - Part II Total Estimated Water System Cost - Part II	\$16,117,000 \$1,504,000
Total Estimated Wastewater System Cost - Part II	\$1,628,000
Part II Total Project Cost	\$19,249,000

PART II - 2025-2027 CONSTRUCTION - STORMWATER							
Description	Amount						
Estimated Construction Cost - CBCL (90% Design) dated October 2,							
2024)	\$13,257,332						
Sub-Total	\$13,257,332						
Add 10% Contingency - (Class 1 estimate)	\$1,325,733						
Sub-Total	\$14,583,066						
Internal Halifax Water Costs (Project Management & Site Inspection -							
estimated)	\$30,000						
QA/QC Testing - estimated	\$10,000						
Halifax Water Consultant Cost for Detailed design services	\$277,451						
Halifax Water Consultant Cost for Tender Phase Services	\$6,380						
Halifax Water Consultant Cost for Construction Admin and Closeout							
(CBCL)	\$400,668						
Total	\$15,307,564						
Net HST (4.286%)	\$656,082						
Overhead/Interest (1%)	\$153,076						
Total Estimated Stormwater System Cost - Part II	\$16,116,722						

Total Estimated Stormwater System Cost - Part I (Rounded)

\$16,117,000

PART II - 2025-2027 CONSTRUCTION - WATER	
Description	Amount
Water System - Part II	\$1,029,989
Sub-Total	\$1,029,989
30% contingency - (Class 4 estimate)	\$308,997
Sub-Total	\$1,338,985
Internal Halifax Water Costs (Project Management & Site Inspection -	
estimated)	\$10,000
QA/QC Testing - estimated	\$5,000
Halifax Water Consultant Cost for Detailed design services	\$28,807

Halifax Water Consultant Cost for Tender Phase Services	\$731
Halifax Water Consultant Cost for Construction Admin and Closeout	
(CBCL)	\$45,364
Total	\$1,428,888
Net HST (4.286%)	\$61,242
Overhead/Interest (1%)	\$14,289
Total Estimated Water System Cost - Part 2	\$1,504,419

Total Estimated Water System Cost - Part II (Rounded)

\$1,504,000

PART II - 2025-2027 CONSTRUCTION - WASTEWATER							
Description	Amount						
Wastewater System - Part II							
Sub-Total	\$1,090,619						
30% contingency - (Class 4 estimate)	\$327,186						
Sub-Total	\$1,417,805						
Internal Halifax Water Costs (Project Management & Site Inspection -							
estimated)	\$10,000						
QA/QC Testing - estimated	\$5,000						
Halifax Water Consultant Cost for Detailed design services	\$64,533						
Halifax Water Consultant Cost for Tender Phase Services	\$774						
Halifax Water Consultant Cost for Construction Admin and Closeout							
(CBCL)	\$48,034						
Total	\$1,546,146						
Net HST (4.286%)	\$66,268						
Overhead/Interest (1%)	\$15,461						
Total Estimated Wastewater System Cost - Part II	\$1,627,876						

Total Estimated Wastewater System Cost - Part II (Rounded)

\$1,628,000

GDGG	Sullivan's Pond Phase 2 / Sawmill Creek					HRM / HM Cost Sharing Breakdown Yr 2 Construction in 2025 Dollars					
ITEM / No.	/ No. DESCRIPTION UNIT EST. Year 2 QTY Removals		EST. Year 2 QTY	Yr 2 Construction QTYs & Cost UNIT COST [2024 DDLLARS] UNIT COST [2025 DDLLARS] YEAR 2 COST [2025 DDLLARS]			HRM % of Cost	HRM YR 1 Cost [\$]	HRM & HW YR 2 Cos HW % of Cost	YR 2 PROJECT TOTAL COST	
1 Re	.1 Asphalt .2 Concrete Curb/ Curb and Gutter	m2 m	7,015 897	5 40	\$ 43.26	\$ 76,907 \$ 38,908	708 608	\$ 23,285	30% 40%	S 22,892 S 15,523	\$ 76,907 \$ 38,808
	.3 Concrete Sidewalk A 2700mm Dia, CSP Removal .6 Aluminum Guardrali	m2 m	411 291 194	\$ 1,300 \$ 75	S 1,406.08 S 81.12	\$ 11,657 \$ 409,169 \$ 15,787	608 08 600	\$ 9,442	40% 100% 40%	\$ 6,295	\$ 15,787
	.7 Storm Sewer .8 Storm Catchbasin c/w Leed and install plug at main .9 Storm Manhole	Ea Ea	93 4 2	\$ 2,000 \$ 2,000	\$ 2,163.20 \$ 2,163.20	\$ 18.585 \$ 8,653 \$ 4,326	C6	\$ - \$ -	1006 1006 1006	\$ 8,653 \$ 4,326	\$ 18,585 \$ 8,653 \$ 4,326
	.10 Storm Headwall .11 Sanitary Marticle .12 Watermain c/si Valves .13 Hydrants (/w laid, valve, tee, and new make-up piece at main	Ea m Ea	2 259 2	\$ 2,500 \$ 110	5 118.58	\$ 5,408 \$ 30,815 \$ 7,571	(0	s -	100% 100% 100% 100%	\$ 5,408 \$ 30,815	\$ 30,815
		m m	111 23	\$ 100 \$ 385	\$ 108.16 \$ 416.33	\$ 12,006 \$ 22,066 \$ 5,408		S -	1006 1006 1006 1006	S 12,006 S 22,066	\$ 12,006 \$ 22,066 \$ 5,408
	.17 Traffic Signal Bases18 Light Standards (Remove and Retain for Relocation)	fa Ea	7 2	\$ 2,000 \$ 1,232	\$ 2,163.20 \$ 1,332.53	\$ 15,142 \$ 2,665	1009	S 2,665	100% 100% 0%	5 15,142	\$ 15,142 \$ 2,665
	.19 Urben Traffic Sign Post .1 Concrete Retaining Woll .2 Gabion Retaining Woll	m2 m2	7 190 76	\$ 75 \$ 100	\$ 108.16	\$ 2914 \$ 15,413 \$ 8,220	1009 08	s -	100% 100%	\$ 8,220	\$ 2,914 \$ 15,413 \$ 8,220
	.3 Terber Retaining Wall .4 Stone Rubble Retaining Wall .21 Concrete Guardrail Slab	m2 m2 m	39 - 106	\$ 50 \$ 30	5 32.45	\$ 2,109 \$ - \$ 3,439	608	S 2,054	50% 100% 40%	\$ - \$ 1,376	\$ 2,109 \$ - \$ 3,439
	.22 Utility Poles .23 Timber Weir Removal .24 Utility Pole Mounted Street Light	Ea Ea	6	\$ 100,000 \$ 500	\$ 540.80	\$ 10,124 \$ -	♦ 000 00 700	S -	40% 100% 30%	\$ -	\$ 10,126 \$ - \$ -
	.25 Turtle Removal .26 Monument Base Removal .27 Tree Removal	Ea Ea		\$ 3,500 \$ 1,000 \$ 150	\$ 3,785.60 \$ 1,081.60 \$ 162.24	s .	1008 1008 1008	S -	06 06 06	s -	\$ - \$ -
2 Da	Subtotal - Removals rtmouth Cove Cofferdam/Dewatering/By-Pass Pumping					\$ 726,544		\$ 107,908		\$ 618,635	
	.1 Downstream Cofferdam .2 By-Pass Pumping Allowance Subtotal - Cofferdam/Dewatering/By-Pass Pumping	Ea.	1	\$ 300,000 \$ 2,100,000		\$ 324,480 \$ 2,271,360 \$ 2,595,840	O8		100% 100%		S 2,271,360
3 Ex	avotion and Backfill for Waterway and Pond .1 Escarate and Backfill on Site	m3	5,728	\$ 40	\$ 43.26		C6	s -	100%	\$ 247,816	
	.2 Excepte and dispose off-site .3 Rock Exception and backfill on-site .4 Rock Exception and disposal off-site	m3 m3 m3	14.511 250 1,216		5 270.40		CO	\$ - \$ -	100% 100%	\$ 328,806	\$ 3,453,029 \$ 54,080 \$ 328,806
Sui	.5 Foundation Stabilization (Provisional) .6 Archeological Standby Time (Provisional) stotal - Excavation and Backfill for Waterway and Pond	LS Hr	3 25	\$ 100,000 \$ 3,000	\$ 108,160.00 \$ 3,244.80	\$ 324,480 \$ 48,672 \$ 4,456,883	C6	S -	100% 100%		\$ 324,480 \$ 48,672 \$ 4,466,883
4 Co	ncrete Box Culverts14 Sided Box Culvert of w Grate		36	\$ 21,000	\$ 22,713.60	\$ 817,690	08	s .	100%	\$ 817,690	\$ 817,690
Su	.2 4-Steed Closed Box Culvert bookal - Concrete Box Culverts		48	\$ 19,000	\$ 20,550.40	\$ 995.419 \$ 1,804,109	CO	\$ -	100%	\$ 986,419 \$ 1,804,109	\$ 905,419 \$ 1,804,109
5 Ca	st-In-Place Concrete Channel .1 Sees Slab c/w Stamped Surface .2 Wells c/w Textured Surface One Side	m3 m3	339 416	\$ 600		\$ 219,803 \$ 376,829	C6	s s -	100% 100%		\$ 219,803 \$ 376,829
Sul	.3 Baffle Walls c/w Textured Surface Both Sides Stotal - Cast-In-Place Concrete Channel	m3	89	\$ 1,000	S 1,081.60	\$ 96,089 \$ 692,722		s .	100%		\$ 96,089 \$ 602,722
6 M:	ass Concrete Block Retaining Walls .1 Type 1 - Charnel Retaining Wall .2 Type 2 - Wing Walls/In-Water Walls	m2 m2	998 304	S 822 5 1,200		\$ 886,853 \$ 304,866		s .	1006		5 886,353 5 391,886
	.2 Type 2 - Wing Walls/fe-Water Walls .3 Type 3 - Street/Path Retaining Walls .4 Type 4 - Free Standing Walls .5 Type 5 - Temporary Waste Block Retaining Walls	m2 m2 m2	93	\$ 1,000 \$ 1,000 \$ 1,000 \$ 850	\$ 1,081.60 \$ 1,081.60	\$ 100,399 \$	ý (H	s -	1006 1006 1006 1006	S 100,399 S -	5 391,886 5 100,399 5 -
	.5. Type 5 - Temporary waste eleck rectaining wasts .6. Clear Stone .7. Type 1 Gravel	m3 m3		\$ 80 \$ 72 \$ 56	\$ 77.88	s -	✓ 09 ✓ 09	s -	100% 100% 100%	s -	\$ - \$ -
	. 8. Geotectic https://www.biseconcrete.Block Retaining Walls	m2		. 65	70.30	\$ 1,382,137	1	s .	100%	\$ 1,582,197	\$ 1,982,197
7 Fe	nding/Handralls/Mehicle Barriers .1 Black Permanent, 1.2m high .2 Omarrental Guard Fence 1.27m High	m	173	\$ 378 \$ 750	\$ 811.20	\$ 70,645 \$.	O9 O8	s -	100% 100%	\$ -	5 -
	.2 Omarrental Guard Fence 1.37m High .3 HKM Standard Handral Coated Black .3 Aluminum Two-Rail Vehicle Barrier	m m	265 338	\$ 809 \$ 325 \$ 250	\$ 851.52 \$ 270.40	\$ 231.884 \$ - \$ 91,395	08 08 608	\$ - \$ 54,837	1006 1009 406	\$ 36,558	\$ 231,884 \$
	.A Temporary Jersey Barrier btotal - Fencing/Hendrails/Vehicle Barriers	fo		\$ 628	\$ 895.02	\$ 393,924	↑ 608 ↑	5 54,837	40%	\$ 339,067	\$ 393,924
8 W	.1 50mm DI CL52 .2 150mm DI CL52	m	28	\$ 756	\$ 817.69	5 23,279	08	5 -	100%	\$ 25,279	5 23,279
	.3 200 mm D1 CL52 .4 250 mm D1 CL52 .5 400 mm D1 CL52	m m	40 6 173	\$ 1,500 \$ 900	\$ 1,622.40 \$ 973.44	\$ 37,380 \$ 9,734 \$ 168,405	C6	s -	100% 100% 100%	\$ 9,734	\$ 9,734
	.8 50mm dia Gate Valves c/w box .7 400mm dia Buterfly Valves c/w box .8 250mm dia Gate Valves c/w box	Ea Ea	4	\$ 700 \$ 5,500 \$ 4,500	\$ 5,948.80 \$ 4,867.20	S 23,795 S -	06		100% 100% 100%	\$ 23,796 \$	\$ 23,795 \$
	.9 200 mm dia Gate Valves c/w box .10 150 mm dia Gate Valves c/w box .11 250 x 250 x 150 mm Tee c/w thrust block and joint restraints	Ea Ea	1 4	\$ 4,500 \$ 4,000 \$ 1,000	\$ 1,081.60	\$ 4,867 \$ 17,906 \$.	CH	s -	100% 100% 100%	\$ 4,867 \$ 17,306 \$	\$ 4,867 \$ 17,306 \$.
	.12 190450 reducer c/w joint restraints .11 Hydrants c/w hydrant lead, gate valve, and .12 Connections to existing watermain stotal - Watermain	Ea Ea	2 5	\$ 500 \$ 7,000 \$ 5,000		£ 21040	C6		100% 100% 100%	\$ 15,142 \$ 27,040 \$ 328,949	
9 Ne	w PRV Chamber	LS	1	\$ 650,000	\$ 700,040.00	\$ 326,949		5 -	100%	\$ 703,040	\$ 703,040
Sul	total - New PRV Chamber					\$ 703,040		s .		\$ 703,040	\$ 703,040
	.1 150nm Dia, PVC DR35 .2 250nm Dia, PVC DR35 .3 300nm Dia, PVC DR35	m m	14 14 73	\$ 775 \$ 925	\$ 838.24 \$ 1,000.48	\$ 10,600 \$ 11,735 \$ 72,935	OF OF	S -	100% 100% 100%	\$ 11,735 \$ 72,985	\$ 11,735 \$ 72,935
Sul	.4.450 nm Dia. Concrete 650 .5.600 nm Dia. Concrete 650 stotal - Storm Sewer	m m	9	\$ 1,000 \$ 1,200	5 1,081.60 5 1,297.92	\$ 9,734 \$. \$ 105,004	C6	S - S -	100% 100%	5 -	s -
11 5	anitary Sower1 200 nm Dis. PVC DR35			\$ 500	\$ 973.44	\$.	CO		100%	s -	\$ -
	.2 Manhole Grade Adjustment atotal - Sanitary Sewer	ta	10	\$ 2,000	\$ 2,163.20	\$ 21,632 \$ 21,632	↑ 1008	\$ 21,632 \$ 21,632	0%	s .	\$ 21,612 \$ 21,632
12 Sto	rm Manholes/Catchbusins1 Manhole Grade Adjustment2 1050mm Dia. Precast Concrete c/w R-10 Frame & Cover	Ea Ea	1	\$ 2,000.00 \$ 8,000.00	\$ 2,163.20 \$ 8,652.80	\$ · \$ 8,653	V 08		100% 100%	\$ - \$ 8,653	\$ - \$ 8,553
	.3 1050mm Dis., Cast-in-Flace Base c/w R-10 Frame & Cover .4 1500mm Dis., Precast Concrete Drop Manhols c/w R-10 Frame & Cover .5 1800mm Dis., Precast Concrete c/w R-10 Frame & Cover	Ea Ea	1	\$ 20,000	\$ 10,816.00	\$ - \$ 12,979 \$ -	09		100% 100% 100%	\$ 12,979 \$.	\$ 12,979 \$ -
Sul	.6 1000mm Dia. Procast Concrete Catchbasin c/w Frame & Cover Botal - Manholes/Catchbesins	Ea	3	\$ 7,500	\$ 8,112.00	\$ 24,316 \$ 45,968	1	\$ -	100%	\$ 24,136 \$ 45,968	\$ 24,316 \$ 45,968
13 06	Bity Relocations .1 368mm PE Gas Line .2 Utility Poles	m Ea	52 6	\$ 100 \$ 2,000	\$ 324.48 \$ 2,163.20	\$ 16,878 \$ 12,979	C8	s -	100% 100%	S 16,873 S 12,979	\$ 16,873 \$ 12,979
Sui	.3 Ductionic A Utility Fee Allowance stotal - Utility Relocations	m LS	111	5 750	\$ 811.70	\$ 90,043 \$ 162,240 \$ 282,135	06	5 -	100% 100%	\$ 90,043 \$ 162,240 \$ 282,135	5 90,043 S 162,240
14 Tra	rffic Signals - Dundss and Alderney .1 Ornamental Street Lights (Luminaires mounted on traffic signal poles)	fe .		\$ 2,000	S 2.163.20		1008	S -	0%		\$ -
	2 Traffic Signal Base Type 2 CAM Pole (+ mast arms where shown) 3 Traffic Signal Base Type 3 CAM Pole - mast arms where shown) 4 Traffic Signal Base Type 4 CAM Pole - mast arms where shown)	Ea Ea Ea		\$ 10,000 \$ 30,000 \$ 30,000	\$ 10,816.00	5 .	1000 1000 1000	S -	0% 0% 0%	s -	\$ \$
	3 Traffic Signal Controller c/w Padmount Base A Primary Signal Heads 5 Secondary Signal Heads (far side left)	fo Ea Ea		\$ 75,000 \$ 2,000 \$ 1,000	S 81,120.00 S 2,163.20	\$ - \$ -	1008 1008 1009	s -	0% 0% 0%	s -	\$ - \$ -
	.6 Secondary Signal Heads (near side right) .7 Pedestrian Signal Heads .8 Pedestrian Push Buttons	Ea Ea		\$ 1,800 \$ 1,200 \$ 500	\$ 1,946.88 \$ 1,297.92 \$ 540.80	\$ - \$ -	1009 1009 1009	\$ - \$ -	0% 0% 0%	\$.	\$
	.9 2 - 50 mm dia, 2 - 38 mm dia. Conduit c/w Traffic Signal Cable .10 Vehicle Detection - GridSmart Camera .11 Connection to Power Supply	m LS		\$ 100 \$ 40,000 \$ 5,000	5 324.48	\$ - \$ - \$ -	1009 1009	S -	0% 0%	S - S -	\$ 5
	htotal - Traffic Signals - Dundas and Alderney His Signals - Portland and Alderney					\$ -	1	s -		s -	\$.
		Ea Ea	3 4	\$ 75,000	5 10,816.00 5 81,120.00	\$ 29,203 \$ 43,264 \$ 81,120		\$ 21,632 \$ 40,560	506 506 506	\$ 40,580	\$ 29,208 \$ 43,264 \$ 81,420
	3 mann agnar character (w rambum ease 4 Primary Stepal Heads 5 Secondary Signal Heads 6 Neonolde Right Signal Heads	Ea Ea	4	\$ 2,000 \$ 1,800 \$ 1,500	\$ 2,163.20	\$ 8,653	508 508	S 4,326 S 3,894	50% 50% 50% 50%	\$ 4,326	\$ 8,653
	.e-verrozer regri school reads .7 Podestrian Signal Heads .8 Pedestrian Push Buttors .9 1 - 50 mm dia., 2 - 38 mm dia. Coduit c/w Traffic Signal Cable	Ea Ea	8 8 124	\$ 1,200 \$ 500	\$ 540.80	\$ 10,383 \$ 4,326 \$ 40,236	508 508 509 509	5 2.163	50% 50% 50% 50%	\$ 5,192 \$ 2,163	\$ 10,383 \$ 4,326
	,9 1 - 30 mm dis., 2 - 35 mm dis. Coduit ow Traffic Signal Clinic .10 Radar Vehicle Detection .11 Cornection to Power Supply. Hotal - Traffic Signals - Portland and Aldeney	LS LS	124 1 1	S 40,000	\$ 43,264.00	5 43.264	508	S 21.632	50% 50% 50%	\$ 21,632	\$ 43,264
15 Str	total - Traffic Signals - Portland and Aldemey eet Lighting1*Type 116 Concrete Decorative Light Pale Base	fa	7	5 5,000	\$ 5,408.00		500	\$ 18,928	50%	\$ 18,928	
	.1 Type 116 Concrete Decorative Light Poln Base 2. Omarmental Street Lights c/w Poles and Luminaires (New) .1 Crimmental Street Lights c/w Poles and Luminaires (Belocated) .4.2-Salum PVC Conduit c/w wiring.	Ea Ea m	3 3 345	\$ 10,000 \$ 3,000	\$ 10,816.00 \$ 3,244.00	\$ 32,448 \$ 9,734	509 1009 509 509	S 32,448 S 4,897	50% 0% 50% 50%	S 4,867	S 32,448 S 9,734
	.5 Connect to existing lighting system .6 POWER SUPPLY CABINET c/w ALL EQUIPMENT AND WIRING	LS LS	345		\$ 5,408.00 \$ 10,816.00	\$ 111,946 \$ 5,408 \$.	508 508	\$ 2,704	50% 50%	\$ 2,704 S	\$ 111,946 \$ 5,408 \$.
	TUTILITY POLIS AND FOCUSES, DAVIT ARMS, WIRING. Itotal - Street Lighting (Alderney and Prince Albert Road)	LS		20,000	21,632.00	\$ 197,392	500	\$ 114,920	50%	S 82,472	5 5 197,392
ao ištr	eet Construction/Sidewalk/Trail Construction 1 Remove/dispose of unsuitable material 2 Execute and Backfill to Subgrade 2 Innocent Construction (III)	m3 m3		\$ 150.00 \$ 90	\$ 162.24 \$ 32.45 6 75.71	\$. \$.	709 709	s -	30% 30% 30%	s - s -	S - S - C
	.3 Imported Structural fill .4 Geoleosile .5 Type 1 Grown – 150mm Thick	m3 m2 m2		\$ 70.00 \$ 10 \$ 25	\$ 27.04	\$. \$.	709 709 709	S .	30% 30% 30%	s .	\$.
	.6 Pype 1 Gravel – 200mm Thick .7 Type 2 Grovel – 300mm Thick .8 Type 2 Grovel – 400mm Thick .9 Type 2 Grovel – 550mm Thick .9 Type 2 Grovel – 550mm Thick	m2 m2 m2		\$ 34.73 \$ 35.00 \$ 40.00 \$ 65	\$ 37.57 \$ 37.86 \$ 41.76	\$.	709 709 709 709	S -	30% 30% 30%	\$ -	\$.
	.10 Type D-HF Asphalt – 75 mm Thick .11 Type C-HF Asphalt -50 mm Thick	m2 m2	1,105 4,210 3,637		S 54.08 S 32.45	\$ \$ 59,758 \$ 136,599	708	\$ 41.831 \$ 95,619	30% 30% 30%	\$ 17,928 \$ 40,990	\$ 136,599
	.12 Type 8-HF Aspholt -75mm Thick .123Type 8-HF Aspholt -100mm Thick .14 Mountable Concrete Curb & Gutter	m2 m2 m		\$ 84.00 \$ 280.00	\$ 43.76 \$ 90.85 \$ 302.85	\$ 157,370 \$.	709 709 709	\$ 110,159 \$ -	30% 30% 30%	\$ 47,211 \$ -	\$ 157,370 \$ - \$ -
H	.15 Concrete Curb & Gutter .16 Concrete Sidewalk - 100mm Thick .17 Concrete Sidewalk - 150mm Thick (at driveways)	m m2 m2	547 737 143	\$ 210 \$ 165.00 \$ 180	\$ 227.14 \$ 178.46 \$ 194.69	5 131,442 5 27,745	709 709 709	\$ 86,892 \$ 92,009 \$ 19,421	90% 30% 30%	\$ 39,488 \$ 8,323	S 131,442
	.18 Concrete Slab c/w driven steel posts for aluminum two-rail .18 Auphalt Planing Sterm deep .19 Decorative Paving Edge	m m2 m2	1,219 225	\$ 400.00 \$ 7 \$ 300	\$ 432.64 \$ 7.57 \$ 324.48	\$ 9.292 \$ 73.031	709 709 709	S 5,403 S 51,122	30% 30% 30%	\$ 2,770 \$ 21,909	\$ 9,212 \$ 73,031
Sul	.30 Urben Traffic Sign Post .31 Power ent Markings htotal - Street Construction/Storwalk/Trail Construction	fa LS	7	\$ 750 \$ 10,000	\$ 811.70 \$ 10,816.00	\$ 5,678 \$. \$ 724,987	708 708	\$ 3,975 \$. \$ 507,491	30% 30%	\$ 1,704 S -	5 5,678 S -
17 Pe	destrian Foot Bridge btotal - Pedestrian Foot Bridge	LS.	1	\$ 175,000		\$ 189,240 \$ 189,280	00		100%		\$ 189,280
						107,440					207,880

		Yr 2 Construction QTYs & Cost Heakdown										
ITEM / No.	DESCRIPTION	UNIT	EST. Year 2 QTY	UNIT COST [2024 DOLLARS]	UNIT COST [2025 DOLLARS]	YEAR 2 COST [2025 DOLLARS]		HRM % of Cost HRI	M YR 1 Cost [\$]	HW % of Cost	HW YEAR 1 Cost [\$]	YR 2 PROJECT TOTAL COST
		ONII	ESI. TEAT 2 Q11	ONIT COST [2024 DOLLANS]	UNIT COST [2023 DUCCARS]	TEAR 2 COST [2025 DOLLARS]	-		M TH I COST[5]		HW TEAK I COST [5]	TR 2 PROJECT TOTAL COST
18	Landscaping	-					-	70% \$	-	30% \$	-	· ·
	.1 150 mm Thick Topsoil and Sod	m2	2,865			\$ 68,168		70% S	47,717	30% S	20,450	S 68,168 S 70,270
_	.2 Trees 3. Planting Beds and shrubs	Ea m2	75					70% S	49,189 79,498	30% S	21,081	
_	.4 Plazas - Textured Pawers	m2 15	588					70% S	66,778	30% S	28,619 35,693	95,397
_	.5 Shade Structure		31			S 118,976 S 18,441		706 S 706 S	83,283 12,909	30% S 30% S	35,693 5,532	S 118,976 S 18,441
	.6 Seat Walls -750mm high precast block	m						70% S	12,909 61,516	30% S 30% S	5,532 26,364	
_	.7 Benches c/w concrte slabs	Ea Ea	25		S 3,515.20 S 5,408.00	S 87.880 S 43.264		706 S 706 S	61,516 30,285	30% S 30% S	26,364 12,979	S 87,88 S 43,26
_	.8 Interpretive signs .9 Trush Reconstactes	Ea Ea	20			5 43,264		70% S	30,285 15,142	30% 5	12,979 6,490	5 45,26-
_	. 10 Decorative Boulders	Ea	160			5 86.528		70% S	60.570	30% S	25,958	5 86.521
		La La	160			5 86,528 5 12,979		70% S	9.085	30% S 30% S	25,958	5 86,52 5 12,97
	.11 Brysle Racks .12 Play Area	LS.		5 200,000	5 216,320,00	S 216320		70% S	151,424	30% S	64.896	S 216.321
	.12 Pay Area .13 Sculptural Seating	LS.	1			5 216,320		70% S	151,424 45,427	30% S	54,896 19.469	
	.14 Parting	Ee.	-	5 15,000	5 16,224.00	5 61.896	-	100% S	45,427	0% 5	19,469	5 61,89
	.14 Planting .1 Red Maple	ta ta		\$ 750	5 811.20	5 .	-	100% S		0% 5		
		Ea		\$ 750			-	100% S	-	0% 5	-	
	.2 3-Stern Clump Paper Birch						-					·
	.3 Weeping European Beech	fa		\$ 750			-	100% S	-	0% \$	-	5 -
	.4 Dolgo Crab Apple	Ea		5 750			-			ON S		§ .
	.5 Meidenhair Tree	ta		\$ 750			-	100% \$	-	on s	-	· ·
	.5 Colorado Spruce	Ea		5 750			-	100% S		06 5		S .
	.6 Eastern White Pine	Ea .		\$ 750		5 -	-	100% \$	-	0% \$	-	š -
	.7 Eastern White Cedar	Ea		\$ 750		s .	-	100% S		ON S		s .
	.8 Serviceberry	Ea		\$ 100		\$.	-	100% \$	-	0% S		ş .
	.9 Arctic Fire Dogwood	Ea		\$ 100		s .		100% S	-	0% S		s -
	.10 Compect Burning Bush	Ea		\$ 100		s -		100% 5	-	0% S		5
	.11 Emerald Galety Euprymus	fa		\$ 1,000		s -	-	100% \$		0% S	-	s -
	.12 Creeping Juniper	Ea		\$ 100		\$ -	_	100% S	-	0% S		ş -
	.13 Star Magnolia	ta		\$ 150				100% \$	-	0% S	-	s -
	.14 Japanese Pieris	Ea		\$ 150			_	100% S		0% S		5 .
	.15 Staghorn Surrac	fa		5 75			_	100% S		on s		s -
	.16 Hansa Rugosa Rose	Ea		S 75				100% S		0% S		s .
	.17 Frobal Spires	ta		\$ 75			_	100% \$	-	0% 5	-	s -
	.18 Yew	Fa		5 100			_	100% S		0% S		S -
	.19 Northern Wild Raisin	Ea.		\$ 100		5 -	_	100% \$	-	0% \$		5 -
	.20 Doublefile Viburnum	Ea		\$ 100		S .		100% S		0% S		s -
	.21 Karl Forester Reef Grass	Ea		\$ 75			_	100% \$	-	0% S		5 -
	.22 Dwarf Maiden Grass	Ea		\$ 75	5 81.12		_	100% \$		0% \$		s -
	Subtotal - Landscaping					\$ 1,018,319	. ·	S	712,824	S	905,496	S 1,018,319
		_					_					
19	Rip Rap	m3		\$ 120	\$ 129.79	s -	J . 🗀	70% S		30% S		s -
	Sultotal - Rip Rap					s -	· _	S		s		
		1										
	This colour depicts unit rates from HRM 2022 Data											
		1					_					
		_			·							
							_					
		CONSTRU	JCTION COST (Excluding	Contingencies and Allowances)	<u> </u>	\$ 15,947,000	. ✓ 🗀	\$	1,659,679	\$	14,287,321	\$ 15,947,000
	CONTINGENCIES and ALLOWANCES				•							·
	Design Development Contingency Allowance - Note 1			2%	-	5 318,940		s	33,194	s	285,746	5 318,94
	Construction Contingency - Note 2			10%	•	\$ 1,594,700	1	S	165,968	s	1,428,732	5 1,594,70
	Escalation / Inflation Based on 2023 Dollars) - Ness 2			OK		N/A						N/A
	Location Factor - Note 4			0%	·	Included	1					Included
			TOTAL CONSTRUC	TION COST (HST Not Included)		\$ 17,860,640	1	\$	1,858,841	\$	16,001,800	\$ 17,860,640

THIS OFFICIAL COSTS SERVANTO ON THE MASS OF SERVANTO O

Nat. 1 - A People Revenuence Contrigues to to sleve for gravells of surnivals, receives entained costs as the wave is better defined in the future.

Nat. 2 - A Commission Contrigues to to sleve for the cost of definition who think is east to the original and interest contribution contributions as the cost of the section of the cost of the costs of the cost of the

A Clear **C** Marget is brased on a full recordifient of the preferred option, construction/design oper-ince and market conditions. This extinate should be sufficient for making the context investment decision and obtaining preliminary project approach. Definition of project report of the preliminary design of the extination of the control of the extination of control and be sufficient to obtain effective preject and preferred to the present and obtaining and existing preferred and present and

Contract.

A Contract Number of Section 1. Section of complete or subcassada complete severage drawing and specifications over 15 calling for completion 6.6. This estimate about the sufficient to allow a detailed recordinately registration with being contaction after trevier. This estimate will contain any above can advanced called for in the tender documents and will not allow a form a contraction of the con