

CHASE RIVER FORCEMAIN NO. 1 AND PUMP STATION UPGRADES
SCHEDULE OF QUANTITIES AND PRICES - PROVISIONAL ITEMS - ADDENDUM 2

Item	Description	Est.Qty.	Units	Unit Price	Total
Section 3 General Requirements					
P3.1	Grouting Existing Pipe (Section 3.77)				
	Grouting, 200mm Dia AC	100	m		
	Grouting, 150mm Dia AC	100	m		
Total Section 3 Provisional					
Section 4 Trench Excavation, Bedding and Backfill					
P4.1	Authorized Hand Excavation (Section 4.70)	100	m ³		
P4.2	Trench Rock Excavation (Section 4.71)				
	a) Volume	50	m ³		
P4.3	Over excavation (Section 4.72)	200	tonne		
P4.4	Additional Concrete and Controlled Density Fill (Section 4.73)	100	m ³		
P4.5	Trench Dams	2	ea		
Total Section 4 Provisional					
Section 6 Sanitary Sewer System					
P6.1	<u>Piping (Section 6.70)</u>				
	600mm dia. HDPE-DR21 Forcemain	4034	m		
P6.2	<u>Fittings (Section 6.70)</u>				
	600 HDPE 45 Degree Fused Bends	4	ea		
Total Section 6 Provisional					

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Item	Description	Est.Qty.	Units	Unit Price	Total
Section 7 Storm Sewer System					
P7.1	<u>Piping and Fittings (Section 7.70)</u> a) 250mm dia. PVC DR35 (CB lead)	10	m	_____	_____
P7.2	Precast Manhole Sections (Section 7.71) a) 1200mm dia.	1	vm	_____	_____
P7.3	<u>Catch Basins (Section 7.72)</u> a) Catch Basin (SW-1) b) Adjust and Reinstate Existing Lawn Catch Basin	2 2	ea ea	_____ _____	_____ _____
P7.4	Manhole Frames and Covers (Section 7.73) a) 1050mm dia. a) 1200mm dia.	2 2	ea ea	_____ _____	_____ _____
P7.5	Service Connection Pipe (Section 7.74) a) 100mm dia. PVC DR35	20	m	_____	_____
P7.6	Service Connection Inspection Assembly (Section 7.75) a) Reinstate Service Connection Inspection Assembly	2	ea	_____	_____
Total Section 7 Provisional					
Section 9 Streets					
P9.1	Rock Excavation (Section 9.71)	50	m3	_____	_____
P9.2	Over Excavation (Section 9.72)	100	tonne	_____	_____
Total Section 9 Provisional					
Section 10 Roadway Lighting					
P10.1	Conduit and Wiring (Section 10.90) a) Conduit and Wiring to Replace Existing	100	m	_____	_____
P10.2	Junction Boxes (Section 10.92) a) New Junction Boxes	7	ea	_____	_____
Total Section 10 Provisional					
SUMMARY - PROVISIONAL					
SECTION 3 PROVISIONAL	GENERAL REQUIREMENTS			_____	
SECTION 4 PROVISIONAL	TRENCH EXCAVATION, BEDDING AND BACKFILL			_____	
SECTION 6 PROVISIONAL	SANITARY SEWER SYSTEM			_____	
SECTION 7 PROVISIONAL	STORM SEWER SYSTEM			_____	
SECTION 9 PROVISIONAL	STREETS			_____	
SECTION 10 PROVISIONAL	ROADWAY LIGHTING AND TRAFFIC SIGNALS			_____	
TOTAL ALL PROVISIONAL SECTIONS				_____	
GST				_____	
TOTAL PROVISIONAL				_____	

**CHASE RIVER FORCEMAIN NO. 1 REPLACEMENT AND PUMP STATION UPGRADES
SCHEDULE OF QUANTITIES AND PRICES - ADDENDUM 3**

Item	Description	Est.Qty.	Units	Unit Price	Total
Section 1 Supplemental Specifications					
1.1	Location of Works (Section 1.04)	1	lump sum	_____	_____
Total Section 1					
Section 3 General Requirements					
3.1	<u>Existing Structures and Utility Works (Section 3.70)</u>				
a)	Relocation of Support Anchors for BC Hydro/Telus Poles	1	ea	_____	_____
b)	Support Existing Piping 150mm - 200 mm dia.	7	ea	_____	_____
c)	Support Existing BC Hydro/Telus Poles	4	ea	_____	_____
3.2	<u>Clearing and Grubbing (Section 3.71)</u>	1	lump sum	_____	_____
3.3	<u>Salvaged Materials (Section 3.72)</u>	1	lump sum	_____	_____
3.4	<u>Control of Public Traffic (Section 3.73)</u>	1	lump sum	_____	_____
3.5	<u>Removal of Existing Pipe (Section 3.74)</u>				
	450mm dia. DI Pipe and Dispose Offsite	840	m	_____	_____
	150mm dia. AC Pipe and Dispose Offsite	465	m	_____	_____
	200mm dia. AC Pipe and Dispose Offsite	10	m	_____	_____
3.6	<u>Removal of Existing Structures (Section 3.75)</u>				
	Hydrants	6	ea	_____	_____
	Manholes incl. valve, meter, & fittings	2	ea	_____	_____
	Valves	3	ea	_____	_____
	Catch Basins	4	ea	_____	_____
3.7	<u>Plug/Cap Existing Pipe (Section 3.76)</u>				
	Concrete cap, 150mm Dia	2	ea	_____	_____
	Concrete cap, 200mm Dia	2	ea	_____	_____
	Concrete cap, 450mm Dia	4	ea	_____	_____
3.8	<u>Grouting Existing Pipe (Section 3.77)</u>				
	Grouting, 450mm Dia DI	66	m	_____	_____
Total Section 3					
Section 4 Trench Excavation, Bedding and Backfill					
4.1	<u>Surface Restoration (Section 4.75)</u>				
	UNTRAVELLED				
	Top Soil & Seed	239	m2	_____	_____
	TRAVELLED				
	Surface Restoration	635	m2	_____	_____
	Temporary Surface Restoration along Haliburton St.	1467	m2	_____	_____
4.2	Imported Granular Fill (Section 4.76)	5690	tonne	_____	_____
Total Section 4					

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Item	Description	Est.Qty.	Units	Unit Price	Total
Section 5 Water Distribution System					
5.1	<u>Water Main Pipe (Section 5.70)</u> 200mm dia. PVC DR18 DR14	945-962	m		
5.2	<u>Water Main Fittings (Section 5.71)</u> <u>BENDS</u>				
	200H x 200H 5 Degree	18	ea		
	200H x 200H 11.25 Degree	7	ea		
	200H x 200H 22.5 Degree	4	ea		
	200H x 200H 45 Degree	2	ea		
	<u>TEES</u>				
	200H x 200H 200F x 150F	9	ea		
	200H x 200H x 200F	1	ea		
	200F X 200F X 150F	1	ea		
	200F X 200F X 200F	1	ea		
5.3	<u>Flange Adaptors and Joint Restraints (Section 5.72)</u> 200mm Joint Restraint	42 62	ea		
5.4	<u>Water Main Gate Valve (Section 5.73)</u> 150F x 150H 200F x 200H	40 42 15	ea ea		
5.5	Hydrant Assemblies (Section 5.74)	10	ea		
5.6	<u>Air Valves and Fittings (Section 5.75)</u> 25mm Air Valve	1	ea		
5.7	<u>Connection to Existing Main Piping (5.76)</u> 200mm dia. AC	4	ea		
5.8	<u>Connections to Existing Services (Section 5.76A)</u> 50mm 25mm PE to 20 dia incl. reducer	34	ea		
5.9	<u>Service Connection Pipe (Section 5.77)</u> 50mm 25mm dia Polyethylene Tubing as per DWG W-1	340	m		
5.10	Corporation Stops & Saddles (5.78)	34	ea		
5.11	Curb Stops (5.79)	34	ea		
5.12	Meter Service Boxes, Box Extensions, and Lids (Section 5.80)	34	ea		
5.14	Touch Read Meters (Section 5.81 - Installation Only - City Supplied)	28	ea		
5.15	Wrap Water Main Joints Near Sanitary and Storm Sewers (Section 5.82)	90	ea		
5.16	Temporary Overland Service (Section 5.83)	1	lump		

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Item	Description	Est.Qty.	Units	Unit Price	Total
Total Section 5					

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SCHEDULE OF QUANTITIES AND PRICES - ADDENDUM 3**

Item	Description	Est.Qty.	Units	Unit Price	Total
Section 6 Sanitary Sewer System					
6.1	<u>Piping (Section 6.70)</u> 650mm dia. HDPE DR21 Forcemain	1031	m	_____	_____
6.2	<u>Fittings (Section 6.70)</u> 650 HDPE 45 Degree Fused Bends	4	ea	_____	_____
6.3	Rebench Existing Manholes (Section 6.72)	1	ea	_____	_____
6.4	Abandon Existing Air Release/Blowdown Chamber (in place) (Section 6.73) duplicate item	2	ea	_____	_____
6.5	Air Release Valve c/w Chamber (Section 6.74)	2	ea	_____	_____
6.6	Blowdown c/w Chamber (Section 6.75)	2	ea	_____	_____
6.7	Chase River Crossing (Section 6.76)	1	lump sum	_____	_____
Total Section 6					
Section 7 Storm Sewer System					
7.1	<u>Piping and Fittings (Section 7.70)</u> a) 200mm dia. PVC DR35 (CB lead)	20	m	_____	_____
7.2	Precast Manhole Sections (Section 7.71) a) 1050mm dia.	1	vm	_____	_____
7.3	<u>Catch Basins (Section 7.72)</u> a) Shallow Catch Basin (SW-2)	3	ea	_____	_____
	b) Relocate Existing Catch Basin	6	ea	_____	_____
	c) Adjust and Reinstate Existing Catch Basin (SW-1)	1	ea	_____	_____
Total Section 7					
Section 8 Curbs and Sidewalks					
8.1	<u>Curbs (Section 8.70)</u> Non-Mountable Curb and Gutter, "CS-1" Concrete "CS-4A"	1150	m	_____	_____
		20	m	_____	_____
8.2	<u>Cutting and Removal of existing Sidewalk (Section 8.71)</u> a) Cutting	2	m	_____	_____
	b) Removal	940	m2	_____	_____
Total Section 8					

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Item	Description	Est.Qty.	Units	Unit Price	Total
Section 9 Streets					
9.1	<u>Stripping and Common Excavation (Section 9.70)</u>				
	a) Common Excavation	530	m3		
	b) Offsite Disposal of Surplus Material	490	m3		
9.2	<u>Sub-grade Preparation (Section 9.73)</u>				
	a) Road	4270	m2		
	b) Curb & Sidewalk	2800	m2		
9.3	Sub-base (Section 9.74)	2890	tonne		
9.4	<u>Base Course (Section 9.75)</u>				
	Road, Curb, Sidewalk and Driveways	2280	tonne		
9.5	<u>Traffic Signs (Section 9.78)</u>				
	a) Reinstate Existing Signs (Single or Multiple Signs on Single Post)	11	ea		
	b) Install New Sign	10	ea		
9.6	Reinstate Street Markings, thermoplastic (Section 9.79)	1	lump sum		
Total Section 9					
Section 10 Roadway Lighting					
10.1	<u>Poles and Luminaires (Section 10.91)</u>				
	a) Street Light Base Extension	3	ea		
10.2	<u>Junction Boxes (Section 10.92)</u>				
	a) Adjust Existing Junction Boxes	7	ea		
Total Section 10					
Section 12 Asphalt Concrete Paving					
12.1	<u>Cutting of Existing Asphalt Pavement (Section 12.70)</u>	170	m		
12.2	<u>Removal of Existing Pavement (Section 12.71)</u>				
	a) Excavation and Dispose	5110	m2		
	b) Grinding (50mm)	510	m2		
12.3	<u>Adjustment of Services (Section 12.72)</u>				
	a) Manholes	2	ea		
	b) Manhole in Curb	2	ea		
12.4	Tack Coat (Section 12.73)	4120	m2		
12.5	<u>Asphaltic Concrete (Section 12.74)</u>				
	a) 50mm Asphalt Sidewalk	2020	m2		
	b) 75mm Thick Road Pavement	4120	m2		
	c) 50mm Thick (Driveways)	130	m2		
	d) 75mm Thick (Driveways)	70	m2		
	e) 50mm Thick Road Pavement	510	m2		
Total Section 12					

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Item	Description	Est.Qty.	Units	Unit Price	Total
Section 15 Valve and Metering Enclosure (Division 13 & 40)					
15.1	Valve Chamber Demolition	1	lump sum	_____	_____
15.2	Pre-Fabricated Enclosure - Cash allowance	1	lump sum	\$60,000	\$60,000
15.3	Enclosure Foundation and Surface Finishing	1	lump sum	_____	_____
15.4	Pipe, Valve, Fittings, and Instrumentation	1	lump sum	_____	_____
15.5	Retaining Wall	1	lump sum	_____	_____
15.6	Bollards	7	ea	_____	_____
15.7	Fencing	2.5	m	_____	_____
Total Section 15					
SUMMARY					
SECTION 1	SUPPLEMENTAL SPECIFICATIONS			_____	
SECTION 3	GENERAL REQUIREMENTS			_____	
SECTION 4	TRENCH EXCAVATION, BEDDING AND BACKFILL			_____	
SECTION 5	WATER DISTRIBUTION SYSTEM			_____	
SECTION 6	SANITARY SEWER SYSTEM			_____	
SECTION 7	STORM SEWER SYSTEM			_____	
SECTION 8	CURBS AND SIDEWALKS			_____	
SECTION 9	STREETS			_____	
SECTION 10	ROADWAY LIGHTING AND TRAFFIC SIGNALS			_____	
SECTION 12	ASPHALT CONCRETE PAVING			_____	
SECTION 15	VALVE & METERING ENCLOSURE			_____	
TOTAL ALL SECTIONS				_____	
GST				_____	
TOTAL				_____	