

TRANSMITTAL SHEET

TO: All Bidders

DATE: December 8, 2022

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE): 9

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Utilities & Infrastructure Services

IF YOU DID NOT RECEIVE ALL PAGES, OR FURTHER INFORMATION IS REQUIRED,
PLEASE CONTACT THE SENDER

MESSAGE:

TENDER NO: 2022-02

Beach Crescent – Sanitary Lift Station Modifications

Please find attached a copy of Addendum #3 for the above tender.

As of March 2021, please be advised that an *Acknowledgement Form* (historically sent as part of the City's addendum packages) confirming receipt of an Addendum is **no longer** included in the addendum package.

However, in accordance with Section 2.5.03 of the City's General Specifications, it remains a requirement that **each Addendum** will contain a signature page(s) which each Tenderer is **required to sign and include with its Tender submission.**



UTILITIES & INFRASTRUCTURE SERVICES
 Engineering Services
 175 Rothesay Avenue
 Saint John, NB, E2J 2B4

ADDENDUM

PROJECT TITLE:

Beach Crescent – Sanitary Lift Station Modifications

ADDENDUM NO: 3

DATE: December 8, 2022

PAGE: 1 OF 8

TENDER NO: 2022-02

MAKE THE FOLLOWING MODIFICATIONS TO THE ABOVE PROJECT. INCLUDE IN THE AMOUNT OF THE TENDER ANY ADDITIONS TO OR DEDUCTIONS FROM THE COST OF THE WORK BY REASON OF THESE INSTRUCTIONS. THE DATE FOR RECEIVING TENDERS REMAINS AT: **2:30PM, TUESDAY, DECEMBER 13, 2022.**

TO THE SPECIFICATIONS

Division 3 – Particular Specifications

Item 3.1.30 Mechanical Specifications, Page 21, add the following:

gg) Ductwork

Galvanized steel duct lock forming quality to ASTM A653, G90 zinc coating. Thickness, fabrication, and reinforcement to SMACNA. Thickness less than 24 gauge not permitted. Ducts located in or exposed to wet well shall be stainless steel. Joints to SMACNA. Classification to SMACNA Seal Class A: Longitudinal seams, transverse joints, duct wall penetrations and connections made airtight with sealant and tape. Sealant to be oil resistant, polymer type flame resistant duct sealant with a temperature range from minus 300°C to plus 930°C. Tape to be polyvinyl treated, open weave fiberglass tape, 50mm wide.

Elbows: Mitered rectangular elbows up to 400mm with single thickness turning vanes, over 400mm with double thickness turning vanes.

Branches: With radius on branch 1.5 times width of duct.

Transitions: Diverging 200 maximum included angle, converging 300 maximum included angle.

Offsets: Full short radiused elbows.

Obstruction deflectors: Maintain full cross-sectional area. Maximum included angles same as for transitions.

Hangers: Strap hangers of same material as duct but next sheet metal thickness heavier than duct to duct size 500mm. Galvanized steel angle with black steel rods to ASHRAE or SMACNA for larger ducts and for independently supported equipment and accessories.

Duct shaft supports: Design with steel angles no smaller than 38mmx38mmx7mm to rigidly support ductwork within the shaft opening. Use SMACNA standard details where possible. Submit shop drawing with supported weights for installations outside SMACNA guidelines.

Watertight duct: Provide watertight duct for fresh air intake and exhaust plenums. Slope watertight duct back to intake for drainage.

Flexible connections: Frame material to match associated duct material with fabric clench by means of double locked seams. Flexible material to be fire resistant, woven fiberglass, extinguishing, neoprene coated glass fabric, temperature rated at minus 40°C to plus 90°C, self-extinguishing.

Access doors: Non-insulated ducts: sandwich construction of same material as duct, one sheet metal thickness heavier, complete with sheet metal angle frame, gasketed. Insulated ducts: sandwich construction of same material as duct, one sheet metal thickness heavier, complete with sheet metal angle frame and 25mm thick rigid glass fibre insulation, gasketed. Size 300mmx350mm covering a 250mmx300mm opening in duct.

Tests: Perform testing in accordance with SMACNA HVAC Duct Leakage Test Manual. Do leakage test in sections. Complete test before insulation or concealment.

Submittals: Submit product data in accordance with Section 3.1.18. Indicate the following: Flexible connections, duct access doors, turning vanes, instrument test ports.

hh) Duct Insulation

All components of insulation system to have maximum flame spread rating of 25 and maximum smoke developed rating of 50 in accordance with CAN/ULC-S102. Duct and insulation installation to be in accordance with ANSI/NFPA 90A and ANSI/NFPA 90B. Materials to be tested in accordance with ASTM C411. Apply mineral fibre blanket insulation with vapour barrier to ASTM C553 on rectangular duct up to 750mm and rigid insulation with vapour barrier, jacket, and facing material to CAN/ULC-S110M otherwise. Install insulation in areas shown on the drawings. Insulation to be 50mm thick. Fasten with 100mm wide aluminum self-adhesive tape, contact adhesive, lap seal adhesive, pins as required. Install insulation following sealing, testing, and cleaning of ductwork. Vapour barriers and insulation to be unbroken over full length of duct or surface, without penetration for standing duct seams and without interruption at sleeves and supports. Use stand-offs for all duct mounted control accessories.

ii) Unit Heater

- .1 Horizontal, forced fan type of UH, kW rating, voltage and phase as specified on the drawings.
- .2 Heating elements: Element totally enclosed in a metal tubular sheath with spiral steel fins.
- .3 Fan motor: totally enclosed, permanently lubricated ball bearing type. Factory wire the fan and provide complete with built in fan motor thermal overload protection.
- .4 Cabinet: die formed, steel, 18 gauge, complete with adjustable louvers.
- .5 Provide unit heater complete with heavy duty, UH mounting bracket suitable for wall or ceiling mounting as indicated on the drawings.
- .6 Finish: Polyester, epoxy powder coat paint finish.
- .7 Provide unit heater complete with the following controls and accessories:
 - .1 Automatic reset over temperature protection.
 - .2 Terminal blocks for all field wiring.
 - .3 Control circuit.
 - .4 Contactors.
 - .5 Power disconnect switch.
 - .6 Explosion-proof construction where indicated.

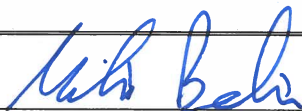
- .7 Unit heater to be suitable for operation by integral thermostat as noted on the drawings.
- .8 Install all electric heaters and controls as indicated and in accordance with manufacturer's instructions.
- .8 Power and controls as required to meet the sequences outlined on the drawings and per manufacturer's installation instructions.
- .9 Perform the following tests:
 - .1 Test cut-out protection when air movement is obstructed.
 - .2 Test fan delay switch to assure dissipation of heat after element shut down.
 - .3 Test unit cut-off when fan motor overload protection has operated.
 - .4 Confirm heaters and controls operate correctly.

Division 4.5 Schedule of Quantities

Replace Schedule of Quantities and Unit Prices Sheet 1, 3, 4, 7 and 8 with attached Sheet 1, 3, 4, 7 and 8.

Note: Signed copy of the addendum **must** be enclosed in the tender documents, according to the Instructions to Tenderers and Tendering Procedures in Division 2 of the Contract Specifications.

BY:



CHIEF CITY ENGINEER

CONTRACTOR'S SIGNATURE

TO BE SIGNED AND ATTACHED TO TENDER DOCUMENTS

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

ISSUED FOR ADDENDUM NO. 3

CONTRACT NUMBER 2022-02

TITLE: BEACH CRESCENT

SANITARY LIFT STATION MODIFICATIONS

UNIT PRICE TO BE EITHER
TYPEWRITTEN OR
PRINTED IN INK IN WORDS
AND PRINTED
NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
A	WATER						
1	<u>Pipelaying & Jointing: Watermain - Supply & Install</u>	7, 10					
a	25mm Ø Type "K" soft copper pipe including tracer wire and connections		m	10			
b	250mm x 45 ° Bend		Each	4			
c	250mm Gate Valve		Each	2			
d	450mm Gate Valve		Each	1			
e	11kg (24 lb.) Anodes on water service connections, valves and mechanical fittings	10	Each	12			
2	<u>Contingency</u>	2.6.03	LS	1	Three Thousand Dollars and Zero Cents	3,000.00	3,000.00
	AMOUNT "A" (WATER)						

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES
ISSUED FOR ADDENDUM NO. 3

CONTRACT NUMBER 2022-02
TITLE: BEACH CRESCENT
SANITARY LIFT STATION MODIFICATIONS

UNIT PRICE TO BE EITHER
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NUMERICALLY

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
2	<u>Manholes: Supply & Install</u>	12					
a	1200mm Ø precast MH c/w City standard frame and cover and incl. all labour & materials necessary to connect to new and existing mains & laterals, and for interior pipe and fittings, etc.		Each	1			
3	<u>Contingency</u>	2.6.03	LS	1	One Thousand Dollars and Zero Cents	1,000.00	1,000.00
	AMOUNT "B" (SANITARY)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER
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CONTRACT NUMBER 2022-02

ISSUED FOR ADDENDUM NO. 3

TITLE: BEACH CRESCENT
SANITARY LIFT STATION MODIFICATIONS

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
C	ADJUSTMENT OF STRUCTURES						
1	<u>Adjustment and Rebuilding of Manholes, Catch Basins and Valve Boxes</u>	12					
a	Rebuild manhole and catch basin top sections as required (does not include final adjustment up to 5 cm)		cm	210			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Dollars and Zero Cents	1,000.00	1,000.00
	AMOUNT "C" (ADJUSTMENT OF STRUCTURES)						

DIVISION 4

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SANITARY LIFT STATION MODIFICATIONS

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
5	<u>Contingency</u>	2.6.03	LS	1	Three Thousand Dollars and Zero Cents	3,000.00	3,000.00
	AMOUNT "E" (ROAD WORK)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

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SANITARY LIFT STATION MODIFICATIONS

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
F	LANDSCAPING	26					
1	<u>Landscaping - Supply & Place</u>						
	a Topsoil - 100mm thickness		m ³	50			
	b Hydro-seed		m ²	500			
	c Nursery Grown Red Pine (min 50mm diameter trunk)		Each	13			
	d Nursery Grown Red Pine (min 100mm Ø trunk)		Each	3			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Dollars and Zero Cents	1,000.00	1,000.00
	AMOUNT "F" (LANDSCAPING)						