

October 18, 2024

Posted via Ariba (5 pages and 2 attachments)

**ADDENDUM No. 2  
REQUEST FOR TENDERS (RFT) No. Doc4558290882****REVISED CLOSING: 12:00 NOON (LOCAL TIME), October 24, 2024****FOR: William Bolton Arena Roof Replacement and State of Good Repair  
for Parks, Forestry and Recreation Division**

Please refer to the above Request for Tenders (RFT) document in your possession and be advised of the following:

**I. REVISIONS**

The Pricing Form – Part 5 has been updated to include the unit rates.

**Important:** if you have submitted a bid, you must reactivate the Price Form and resubmit your bid. Please see the instruction in the file “Reactivating the Price Form”.

**II. QUESTIONS AND ANSWERS**

**Q1. We would like to request an extension to the closing date. This is a large project with multiple sub-trades involved and we require additional time to coordinate with each sub-trade?**

A. The Closing Date (submission deadline) has been extended to October 24, 2024 at 12:00 pm (local time).

**Q2. Could you please provide more information for the Heat Tracing scope of work on this project. It was not mentioned during the site visit so we did not review this scope?**

A. Refer to Consultants details below.

- .1 Heat Tracing Cable System: Lump Sum Price to supply, install, and test new heat tracing cable system, inside of building install on existing roof drain piping from Roof Area 2.1.

Price to include for scissor lifts to access heat tracing cables.

- .2 **SCOPE OF WORK: DRAINPIPE HEAT TRACING CABLE SYSTEM**

Install Drainpipe Heat Tracing at Downpipes on Roof Area 2.1: Supply and install new continuous heat tracing cable system complete with all transformers, cables, and related accessories for a complete installation, inclusive of 1” minimum insulation wrap.

New heat tracing system to be self-regulating.

Heat Tracing:

Completely remove the existing system installed at four (4) roof drains on Roof Area 2.1.

Decommission the existing electrical.

New heat tracing system to be self regulating and continuous:

Complete engineered electrical shop drawings, showing at minimum existing drainage pipe diameters, length and connections, new electrical controls, connections to existing electrical system and layout of new heat tracing system, for existing drainage pipes from Roof Area 2.1, and submit to consultant for review.

Heat tracing system shall be designed, manufactured and tested in accordance with CSA, UL and Canadian electrical codes.

Where cables are carried below eight feet of a walking/skating surface, provide a three-sided metal box, secured to existing wall. It is to be elevated from the ground 51mm (2.0") and extend 2.44m (8') up. 18 gauge pre-painted metal is to be used, color to be selected by owner from standard color chart. All edges are to be hemmed and no raw edges are acceptable.

Follow all manufacturer's written instructions for securement of cables to drain pipes, details and installation, system to include the following,

Polyolefin jacketed heating cable (8 watt/ft, 208/240V), cables to be self-regulating with maximum exposure temperature of 75 Deg C, when ambient exposure falls below -30 Deg C.

Two continuous cables to be installed on each pipe, cables to be installed at 4 o'clock and 8 o'clock locations on horizontal pipes and vertical. Cables to be secured in place every 12".

Junction boxes with power kit

Splice kit/connections (where required)

Thermostat control, temperature sensors, lighted end kit

Continuous 1" insulation wrap (mineral wool or fiberglass) fully in-casing the drain pipes (full length of each pipe). Apply "Heat Tracing Caution Labels" at 10' intervals.

Acceptable manufacturers.

1. Thermal Resources Management (TRM)
2. Rimkus Consulting Group, Inc. approved alternate meeting the requirements listed above.

Provide minimum two (2) year manufacturer warranty.

**Q3. Could you provide approximate linear footage and photos of interior drain pipes?**

A. No approximate linear footage of drain pipes is provided. It is the bidder's responsibility to undertake measurements and ascertain quantities. Refer to photos of drain pipes attached.

**Q4. Are we to include for interior tarping for the entire arena including over the ice?**

A. Interior protection required under Roof Areas 1.1 and 2.1 as per bid form. Over the ice rink there is a reflective drop ceiling. Interior protection is required here since there are still gaps/openings in the reflective drop ceiling (see photos). Protection of the arena ice shall be maintained at all times.

**Q5. How long can the large "chiller" unit be down/disconnected for? This unit will need to be shut down to accommodate the new roof system installation.**

A. No shut down or disconnection of the "chiller" is anticipated during construction. The bidder shall account for all arrangements and preparations for work required beside and below the "chiller" unit in the bid.

**Q6. Will the arena be shut down during this project?**

A. No. Occupants will still be in the building. Arena will not be shut down during roof work.

**Q7. Is this existing "Hanging Conduit/Gas Line Support system" to be replaced? In the summary of work it notes to just adjust the existing system?**

- A. We are reusing hanging pipe supports on Roof Area 1.1. Adjust existing hanging conduit supports and gasoline support system, to accommodate increased insulation height, on Roof Area 1.1. Support existing conduit piping during reroof.
- Q8. We need more information on the electrical heat tracing that is required for the roof drains. How far into each roof drain is the cabling supposed to do? Where is the power for the cabling being brought from? What are the power requirements for the new system?**
- A. Power requirements are to be verified with manufacturer and should be based on the existing drain locations and length of cables required. Also refer to question 2 response.
- Q9. The scope of work mentions asbestos abatement of required materials to complete the work, but the DSS report does not show any asbestos present. Please confirm what abatement is required if any.**
- A. Based on the reports included within the specification package, lead paint was found on the existing wall metal paneling, therefore, all removal and preparatory work to follow Ministry guidelines.
- Q10. The scope of work mentions various possible repairs that may be required to the existing metal deck or plywood sheathing and asks for unit prices for these repairs. There does not appear to be any unit prices on the Ariba pricing form.**
- A. Please refer to Revision section above. The pricing form has been updated to include unit rates.
- Q11. Is there a quantity of metal deck repairs, metal deck replacements, and plywood sheathing that we are to include in the base price for the roof replacement?**
- A. No. these items are listed as unit price items.
- Q12. Is there a quantity of sealants that we are to replace on the sloped metal roofing prior to the elastomeric coating?**
- A. There are no sloped metal roofs. The higher walls enclosing the arena include metal cladding on the top part and this cladding will receive elastomeric coating. Contractor is to verify all dimensions of the cladding and determine quantities of sealant.
- Q13. Is there a specification for the roof ladder that is to be replaced?**
- A. Refer to Consultants details below.

Scope of Work: access ladder

- .1 Interior Roof Access Ladder: Include for supply and installation of a new wall-mounted, interior roof access ladder of suitable height to reach new roof access hatch; approx. height to be determined on site. New ladder to be made from galvanized steel.
- .1 General Notes:
  - .1 Structural Members have been designed in accordance with the Ontario Building Code 2012, amended by resolution 88/19.
  - .2 All references to Codes & Standards are to the latest issue.
  - .3 New prefabricated painted or galvanized (consult client for colour selection) metal ladder to suit site dimensions.
  - .4 Confirm all measurements on site prior to fabrication.
  - .5 Engineer ladder to current local code requirements and submit engineered, stamped, shop drawings for review.
  - .6 Contractor to adjust installation and attachment method to suit existing conditions.

- .7 Ladder is to be designed and installed in conformance with Ministry of Labour guideline supplement engineering data sheet revised July 2014.
- .2 Shop Drawings
  - .1 The contractor shall furnish shop drawings to the structural engineer, a minimum of one reproducible and two prints stamped by a professional engineer licensed in the province of Ontario.
- A) Sealed metal ladder & drawing.
- B) Structural steel erection/connection drawing (interior ladder).
- .3 Structural Metal:
  - .1 Conform to CSA standard CAN/CSA S16 limit states design of steel structures.
  - .2 Conform to CSA Standard W55.3 resistance welding qualifications code for fabricators of structural members used in buildings.
  - .3 Conform to CSA standard W59, welded steel construction (metal arc welding).
  - .4 Welding electrodes – CSA standard W48, filler metals and allied materials for metal arc welding.
  - .5 Structural Steel – CSA standard G40.20/G40.21, general requirements for rolled or welded structural quality steel/structural quality steels. Grade 350W for general purpose structural steel shapes, 300W for angles, channels, rods and plates. Hollow structural steel sections shall conform to CSA standard G40.20 grade 350W, hot form welded or hollow structural section class H.
  - .6 High strength bolts, nuts and washers A.S.T.M> standard A325, standard specification for structural bolts, steel, heat treated 120/105 ksi minimum tensile strength or A325M, standard specification for high strength bolts for structural steel joints (metric)
  - .7 Anchor rods – A.S.T.M. F1554 grade 36
  - .8 Primer:
    - .1 Structural steel interior exposure: To receive a top coating – CISC/CPMA 1-73a over brush off blast cleaning as per SSPC specification SP7/NACE No.4.
    - .2 Regions of steel to receive field welding including sheer stud to top flange – No Paint.
    - .3 Hot dipped galvanized as per CAN/CSA-G164 hot dip galvanizing of irregularly shaped articles.
  - .9 Aluminum:
    - .1 Conform to CSA standard CAN/CSA S157, strength design in aluminum.
    - .2 All material to be aluminum grade T6061-T6. Minimum  $F_y=240$  MPa (35 ksi).
- .4 Open Web Steel Joist:
  - .1 Conform to CSA standard CAN/CSA S16 limit states design of steel structures CSA standard S136.

**Q14. Regarding Heat Trace installation, will they be installed at every drain location on both roof areas?**

- A. No, only on all drains located on Roof Area 2.1.

**Q15. Please confirm that the new scuppers have downpipes which are not shown in drawing UMM364 but are stated in written specifications, if so i will need to know dimensions?**

A. These scuppers are overflow scuppers and do not require downpipes.

**Q16. Please provide more clarification on the scope required for the heat trace cables?**

A. Further to the scope of work contractor is responsible to install new continuous heat tracing system at all roof drain locations, located on Roof Area 2.1. within the building. Heat tracing system cables are to be installed along the outside of the existing piping and not within the pipe. Heat trace cables are to be full length of pipe (within the building), any cables extending below 8' of any walking/skating surface are to be fully protected with pre-painted metal (as listed in the scope of work) It is the contractor's responsibility to provide engineered, stamped shop drawings.

**Q17. Can we replace the Lead Containing panels entirely instead of Lead Abatement for Metal Siding Panel Coating? This is a more cost-effective solution.**

A. The project scope does not anticipate replacement of metal cladding at this time but rather removal of the flaking paint from the cladding to permit recoating. Removal of the cladding to permit replacement may reveal additional deficiencies beneath which would lead to additional cost and time to complete.

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Should you have any questions regarding this addendum contact Vladislav Gorskiy at [vladislav.gorskiy@toronto.ca](mailto:vladislav.gorskiy@toronto.ca).

Suppliers must acknowledge the receipt of all addenda on the space provided in Ariba System in Section 4.1.5 – Addenda as per the RFT Part 1, Section 1.7 – Addenda, of the RFT Call document. All other aspects of the Tender remain the same.

Yours truly,

Aimee Yang, Supervisor  
Community & Social Services and City Manager's Office  
Purchasing Client Services  
Purchasing and Materials Management