ADDENDUM

Project:	LTWP - Critical Pipeline Renewals	Addendum No.: 02
		No. of Pages: 14
		Date: November 22, 2024
		Doc. No. P7201-950302569-744 (2.0)

The following change(s) in the Request for Proposal Documents (2024-RFP-075) are effective immediately.
This Addendum forms part of the Contract Documents.

ITEM	DESCRIPTION	ACTION

Question 1.1
Can amounts be provided for the Phase II ESA and Permitting and Approvals Support allowances?

Response 1.1
The amounts for respective cost items (Item 6.7.4 and Item 6.1.8 & 6.2.4 in the Cost Submission table) must be priced by the proponent in the Appendix A – Cost Submission Form. As noted in the RFP (Appendix I), proponents are to allow for associated costs to complete three (3) test pits for the Phase II ESA. The cost submission form has been altered to identify cost line items for the Phase II ESA as a provisional item and Permitting as lump sum item.

Question 1.2
Is the City open to alternate schedules that would include certain subtasks of the specified phases occurring after the phases' specified completion date as long as the tender assistance completion date and overall project completion date is respected?

Response 1.2
Yes, as long as the tender assistance completion date and overall project completion date remain the same as per RFP milestone date, a new phasing sequence can be proposed. This is also contingent on the project sequencing following all permitting, guidelines and procurement methods as per the RFP and City of Iqaluit Standards.

Question 1.3
I'm looking to confirm that the replacement of MH96 is in fact meant to be included in this scope.

Response 1.3
Note that the Manhole 96 (MH96) replaced scope of work identified in Section 6 of the RFP is removed from the scope of this project and will be completed fully by others. All other scope elements described

within the RFP and subsequent addenda to remain as specified. The removal of MH96 will have no impact on the other scope as it is not in the same location as the ductile iron pipe replacements.

Question 1.4
Does the GN have survey data (e.g. LiDar or other recent surveys) that could be used in the design? Doing a topographic survey in the middle of winter is challenging and does not produce good results for design purposes.

Response 1.4
Yes, the City has a Lidar survey of the City that would be sent to the awarded proponent. It should be noted that the Lidar may not be the most accurate representation of the current topography and should therefore be field verified by the designer for accuracy.

Question 1.5
Is there watermain modelling data available for the City of Iqaluit that could be used by the proponent? If not, has hydrant testing been done in the project area recently or can some be done asap prior to start of this project?

Response 1.5
Yes, a calibrated water model will be available to the awarded proponent. The hydrant tests can also be shared with the awarded proponent for reference.

Question 1.6
Is there a possibility for early procurement of materials to meet the construction deadline? There may be a significant lead time for ordering the pre-insulated watermain pipe and the new access vault.

Response 1.6
Due to issues in the past caused by early procurement, and the new scope added below, the City would prefer to keep the procurement of materials as per the standard sequence. The access vault(s) must have shop drawings approved by the awarded consultant prior to procurement. Revision 1.16 of this addendum specifies the required factory test records required for AVs before procurement.

Clarification to Request for Proposal 2024-RFP-075

Revision 1.1
Addition to Design Scope of Work - As per the City's new policy, all watermain and sewer pipes must be separated and placed into different Access Vaults (AV). Along with the replacement of ductile iron watermains, AVs will now be added to the scope of work to the Critical Pipelines Renewal RFP to ensure the separation of the utilities and cross contamination. The amount and location of AV's will be determined by the successful proponent and dependent on the preferred route developed by the proponent and approved by the City. It should be noted as per the guidelines that there is a maximum of 120 meters between AVs and should be adhered to during the design process.

Revision 1.2
Addition to Design and Tendering Scope of Work Phase 1 and Phase 2 – The City now anticipates two construction seasons due to the current schedule timeline and potential issues with material lead time. The awarded proponent will be responsible to design the entire scope of work up to 90% design. Afterwards the consultant must prioritize upgrades requested by the City (Revision 1.12). Therefore, two (2) submission of the 100% design IFT packages and tendering services will be added into the scope of the RFP and will be divided into two main phases. Therefore, proponents should be aware there will be two separate tender processes, and thereby it is possible each phase may have a different general contractor. Phase 1 will require construction to commence and be completed within the 2025 (July-November). Phase 2 will include the bulk of the remaining upgrades and be tendered to commence and complete the rest of the construction activities in 2026 (July-November). The deliverables of the phasing breakdown are as shown below:

- Phase 1 – Priority Upgrades 2025
    - 100% Design package (IFT)
    - Tender support
    - IFC Documents
    - Bid review and contract award
- Phase 2 –Overall Upgrades 2026
    - 100% Design package (IFT)
    - Tender support
    - IFC Documents
    - Bid review and contract award

Revision 1.3
Addition to Section 6 - A 10% proof of concept will be required as part of the RFP's scope of work. The proof of concept should consist of a two (2) page report which should include the following:

- Project scope and objectives
- Project design and approach

- Preliminary Risk Assessment & Mitigation
- Class D Cost Estimate
- Project Schedule with a Critical Path
- Sketch of Ductile Iron Replacement Locations
- Risk Register
- Adjacent/Overlapping/Growth Projects (If applicable)
- Virtual Workshop Meeting with the City

Revision 1.4
Line item 6.1.3 from the Cost Submission Form “As-built Survey” has been deleted as all survey requirements will be captured under the Topography Survey section as per the new Cost Submission Form in Revision 1.9. All inverts of the existing piping infrastructure should be captured and priced under the Topography Survey line item. The awarded proponent shall receive a report by R.V. Anderson with survey data of all Access Vault Inverts in the City’s system for reference, however all inverts must still be verified by the consultant.

Revision 1.5
The bi-weekly project meeting minutes must be submitted 48 hours after the bi-weekly (Section 6.2.4 of the RFP) meetings to allow ample time for the City to review any agenda/priority items.

Revision 1.6
Section 3.1.5 Qualifications and Experience will be adjusted to account for the following changes in evaluation points and experience:

- Project Manager (10 Points)
    - The Project Manager will require 20 years of verifiable experience in applicable projects
    - Project experience valued at $10 million and above
- Site Inspector (5 Points)
    - The Site Inspector will require 15 years of verifiable experience in applicable projects
- Lead Engineer (10 points)
    - The Lead Engineer will require 15 years of verifiable experience in applicable projects
- Remaining Positions (10 points)

Revision 1.7
Additional requirements to section 6.4 & 6.5 CA Services - Two (2) additional site visits will be required by the Lead Engineer for this assignment in 2025 and two (2) site visits in 2026. It should be noted that all accommodations/flights are the responsibility of the proponent, and the pricing should include all necessary costs. The site visits should be priced in line item 6.4.4 & 6.5.4 disbursements for the Contract Administration services.

Revision 1.8

Addition to RFP - Proponents are to price two (2) technical memorandums under the provisional section of the cost submission form. The technical memo should be included in the 50% design & Preliminary Engineer Report submission. The subject matter for the technical memos will be decided after the 10% proof of concept stage.

Revision 1.9
Proponents must be aware of any potential adjacent projects that may impact the design. The proponent must include this in their risk register and seek clarification from the Owner. The potential infrastructure projects or development projects may include:

- Other Utilidor Upgrades
    - Upgrades to AV11
- Transportation/Roadway Improvements
- Development Projects
- Drainage Improvements/Ditching Projects
    - Nipisa Street Box Culvert installation set to commence in 2025
    - QEW Drainage Upgrades (NwTell Building)

Revision 1.10
Addition to section 6.6 - A site visit will be required at the End of Warranty period eleven (11) months after substantial completion. This should be priced under line item 6.6.4 disbursements for Contract Closeout.

Revision 1.11
There are changes to the Cost Submission Form which have been highlighted in yellow. Proponents will be required to respond to Request for Proposal No. 2024-RFP-075 using the new cost table in Appendix A of this Addendum.

Revision 1.12
A Ductile Iron table in Appendix C detailing the locations of the ductile iron pipes to be replaced in the system and their estimated lengths has been added for further reference. Proponents should note that the construction/implementation of upgrades for this project will now be occurring over a two-season period (2025-2026). Proponents will be required to prioritize the replacement of ductile iron pipes between AV10 – AV11 to be implemented in 2025 and any other possible upgrades if time permits in Phase 1. The remainder of the upgrades/replacements can be delayed to the spring of 2026 in Phase 2, with all construction works to be completed by the end of the 2026 construction season.

Revision 1.13
The Condition Assessment & Indicative Report mentioned in section 6.0 (Page 22 of 52) of the RFP is a typo and is not part of this RFP. This item is removed, and proponents are to disregard this item.

Revision 1.14
Addition to Design Scope of Work - The design should include any surface drainage improvements & culvert upgrades directly impacted by the works. The improvements should account for the design of

permanent drainage features (e.g., ditching with riprap and geotextile filter clothe to prevent erosion and promote long term effectiveness).

Revision 1.15
In the event that a non-conformance between the design and executed construction work is identified, the Consultant must document and issue a preliminary Non-Conformance Report (NCR) to the City and Project Team within 24 hours from the moment the issue was identified. Within 72 hours of the incident, the Consultant must coordinate an update to the NCR documenting root cause, corrective action and any relevant lessons learned. A dollar value and schedule update must be provided as well to document any ramifications to the project. Consultant is to maintain an NCR log and capture it on the bi-weekly meetings accordingly.

Revision 1.16
An Inspection and Test Plan (ITP) must be included and submitted as part of the 100% design deliverable. The ITP should capture hold points and witness points to all critical items of pre-construction, construction activities, and closeout items. The ITP must be included in the Request for Tender (RFT) documents as part of a deliverable for the contractor. If the designer is to be awarded later on as the Contract Administrator of the project, they must upkeep and maintain the ITP log as necessary.

Revision 1.17
The project history file must also include an electronic GIS data file in a format accepted by the City's ESRI GIS mapping system.

Revision 1.18
A Factory Acceptance Test for the Access Vaults should be included in the Tender Ready/RFT documents. It should include but not be limited to factory test records for AVs, pressure tests, x-rays of all welds, leak tests for AVs, and certification that the interior coating application has been done per manufacturer specs, signed by the applicator and certified by coating suppliers. This must be submitted for approval prior to acceptance of AV shipment from manufacturer.

Revision 1.19
See below the adjusted Project Schedule with the adjusted dates:

Table 1 – *Project Schedule*

Milestone	**Date**
Project Kick-Off Meeting	January 20, 2025
Complete 10% Proof Of Concept	February 17, 2025
Complete 50% Design	March 31, 2025

Complete 90% Design	April 25, 2025
Complete 100% Design & Tender Ready Documents	May 16, 2025
Complete Tender Assistance	June 20, 2025
Complete Construction Administration	December 15, 2026

Revision 1.20

After project completion, the awarded proponents will be evaluated on their project performances which will be scored in their RFP technical evaluations for future City projects. Consultants will be evaluated on the following criteria:

- Adherence to project timelines and milestones
- Communication and coordination with stakeholders
- Accuracy and completeness of deliverables
- Alignment with project scope and objectives
- Adherence to City of Iqaluit regulatory requirements and standards
- Professional conduct and responsiveness to feedback
- Identification, mitigation, and resolution of risks
- Changes due to errors and omissions
- Value added components to the project
    - Geotechnical Investigations recommendation
- Effective cost control
- Overall satisfaction with the project outcomes

Revision 1.21

All design deliverables and milestones must be approved by the City prior to continuation on the next design deliverable. Therefore, there will be hold points at the 10% concept, and the 50%, 90% and 100% design milestones.

Revision 1.22

Due to the addition of AV's and potentially new watermain routes to replace the ductile iron watermains, geotechnical investigations will now be required to develop the design. The geotechnical investigations scope breakdown can be seen as per the," Geotechnical Investigations," in Appendix B. The geotechnical investigations must be priced on the cost submission form under line item 6.1.4.

Revision 1.23

The current municipal guidelines are being developed by a consultant and therefore the updates should be considered in the design. The exact date of completion for the standards is currently unknown, proponents are advised to ensure that their proposals align with the evolving framework and take into account any updates provided by the City during the design process.

Appendix A – Cost Submission Form

Item	Description	Qty	Unit	Unit Price	Total
6.0 General					
1.	Project management, administration, coordination, meetings	1	LS	$	$
6.1 Preliminary Engineering Design Study					
1.	Background information review and stakeholder	1	LS	$	$
2.	10% Proof of Concept	1	LS	$	$
3.	Topographical survey	1	LS	$	$
4.	Geotechnical Investigations	1	LS	$	$
5.	Phase 1 environmental site assessment	1	LS	$	$
6.	50% design package	1	LS	$	$
7.	Preliminary Design Report	1	LS	$	$
8.	Permitting and Approvals Support	1	LS	$	$
9.	Risk Register	1	LS	$	$
10.	Disbursements	1	LS	$	$
6.2 Detailed Design					
1.	90% design package	1	LS	$	$
2.	100% design package (IFT) – Phase 1	1	LS	$	$
3.	100% design package (IFT) – Phase 2	1	LS	$	$
4.	Permitting and Approvals	1	LS	$	$

Item	Description	Qty	Unit	Unit Price	Total
5.	Disbursements	1	LS	$	$
6.3 Construction Procurement Phase					
1.	Tender support (Phase 1 & 2)	2	LS	$	$
2.	IFC Documents (Phase 1 & 2)	2	LS	$	$
3.	Bid review and contract award (Phase 1 & 2)	2	LS	$	$
6.4 Construction Phase – Contract Administration, Site Inspection and Engineering Support Services 2025 (Optional)					
1.	Project Management (Assume 25 hours)	25	Hr	$	$
2.	Contract Administration (assume 150 hours)	150	Hr	$	$
3.	Engineering Support Services (assume 100 hours)	100	Hr	$	$
4.	Disbursements	1	LS	$	$
5.	Miscellaneous Items (Cash Allowance)	1	LS	$70,000.00	$70,000.00
6.5 Construction Phase – Contract Administration, Site Inspection and Engineering Support Services 2026 (Optional)					
1.	Project Management (Assume 50 hours)	50	Hr	$	$
2.	Contract Administration (assume 250 hours)	250	Hr	$	$
3.	Engineering Support Services (assume 200 hours)	200	Hr	$	$
4.	Disbursements	1	LS	$	$

Item	Description	Qty	Unit	Unit Price	Total
6.6 Closeout (Optional)					
1.	Closeout and Warranty Period Support	1	LS	$	$
2.	Deficiency Report Submission	1	LS	$	$
3.	Supply of As Built Records (including hardcopy and digital files) and Supply of Project History File	1	LS	$	$
4.	Disbursements	1	LS	$	$
6.7 Provisional Items					
1.	Site Inspection Services (assume 65 days @ 10hours per day)	1	LS	$	$
2.	Site Inspection Disbursements (2025 & 2026)	1	LS	$	$
3.	Technical Memorandum (2)	1	LS	$	$
4.	Phase 2 environmental site assessment	1	LS	$	$
				6.0 General subtotal	$
				6.1 Preliminary Engineering Design Study subtotal	$
				6.2 Detailed Design subtotal	$
				6.3 Construction Procurement Phase subtotal	$
				6.4 Construction Phase – Contract Administration and Engineering Support Services 2025 subtotal	$
				6.5 Construction Phase – Contract Administration and Engineering Support Services 2026 subtotal	$
				6.6 Closeout Phase subtotal	$

Item	Description	Qty	Unit	Unit Price	Total
				6.7 Provisional Items	$
				Table A1 subtotal	$

Note: Estimated costs for disbursements (travel, accommodation, per diems) will be reimbursed based on actual cost with no allowance for mark-up)

Fees for changes to the work shall be as agreed upon prior to the commencement of services for the change as set out under the contract. For additional work, the proponent shall use the rates detailed below.

POSITION	TEAM MEMBER	Hourly Rates ($/hr.) 2025	Hourly Rates ($/hr.) 2026	Hourly Rates ($/hr.) 2027
Project Manager				
Lead Engineer				
Site Inspector				
Add other roles as necessary to fulfil Project Objectives				

Consultant to add positions as necessary. Each discipline shall provide names for each position as necessary.

End of Appendix A

Appendix B – Geotechnical Investigations

The Consultant will be required to coordinate with all utilities and with the City to allow for execution of the work. The successful Bidder shall provide the results of all investigations (including service locates) and coordinate its work with the City for incorporation into the final design.

FIELD COMPONENT

1. Coordinate with the City for access to the Site.
2. Prepare a traffic control plan for any work affecting the roadway in accordance with this RFP.
3. The suggested total number of boreholes required to complete the assessment is eighteen (18)
4. Assume average refusal depth of 3.5 m. Borehole locations to be determined from a review of background information, a site visit and/or consultation with the Project Manager/City staff, to determine the probable location of future infrastructure and areas of potential environmental or underground utility concern. Relocate to avoid obstructions as necessary, recording actual location on plan.
5. Ensure that all underground services are located before excavation and provide all required locates to the City representative prior to excavating. Provide the City and Project Manager with a copy of locates performed ahead of the work.
6. Record geodetic elevation of ground surface at borehole locations and relate to a known benchmark. Identify label borehole locations on future design drawing plans.
7. Report/notify before equipment is removed from the Site, the following:
8. Extremely poor or unexpected soil conditions are encountered.
9. Obtain samples of each soil type encountered, the first sample being at a depth not greater that 750 mm and succeeding samples at not more than 1500 mm increments of depth. Record whether samples are dry, moist, or wet.
10. Restore Site to its original state upon completion of on-Site work.
11. The geotechnical program included as part of this RFP is for pricing purposes. If, in the Proponent's professional experience and discussions with the City, it is determined that some or all geotechnical work may not be required, then the scope of work can be adjusted accordingly through the contract change order process. For the purposes of this RFP, pricing for the requested geotechnical program as outlined in the RFP shall be supplied.

REPORTING

1. The Geotechnical Report shall take into consideration the following factors: projected temperature increase, precipitation, extreme weather events and the rise of sea level.
2. Submit a soil investigation report, complete with a Site Plans identifying the borehole locations and the proposed road footprint.
3. Include (but not be limited to) in the report the following:
    - A detailed description of the soil investigation, including details of the method of soil boring used, a description of the general geology of the area and a drawing showing the actual location and elevation of the boreholes.
    - A description of the physical properties, cohesion and friction angles, soil constraints for at rest, active and passive conditions, unit weights for the various soil strata, found in each borehole and the elevation of the stabilized water table.
    - Summarize the results of all relevant boreholes, in a coordinated series of logs.
    - Any special conditions or irregularities.
    - Water conditions and flow rates for drainage, including effect of weather.

- Recommended pavement structure, inclusive of subgrade preparation and drainage requirements.
- Advice on any special construction difficulties that may be encountered.
- Any additional information of interest or significance.

All reports should be supported with photographs whenever possible and submitted in PDF format

End of Appendix B

Appendix C – Ductile Iron Pipes Table

From	To	Length Between The two Avs	Ductile Iron pipe ID	Total length of Ductile Iron pipe in between (m)	DI pipe diameter (m)	Installation Year	Remarks
MH7	MH8	89.1	P-376	89.1	150	1977	Along the same direction
MH8	MH9A	89.1	P-375(2)	10	150	2021	
MH13	MH15	17.2	P-382	17.2	150	1977	Along the same direction
MH15	MH22	36.9	P-383	36.9	150	1977	
MH23B	AV19A	44.3	P-387	44.3	150	1977	
MH13	MH22	52.4	P-388 & P-389	52.4	150	1977	
MH30	MH31	47.3	P-394	47.3	150	1978	Along the same direction
MH31	MH32	61.2	P-395	61.2	150	1978	
MH24A	MH24	14.3	P-419	14.3	150	1977	Along the same direction
MH24	AV25A	75.7	P-420	75.7	150	1977	
AV25A	MH26	118.3	P-421	118.3	150	1977	
MH26	MH27	46.1	P-422	46.1	150	1977	
HM27	MH8	24.6	P-423	24.6	150	1977	
AV11	AV10	98.7	2141; 2142;123	98.7	200	1978	Uivvaq zone
MH13	#		P-687	1.2	150	1977	Located around the reheating station. # means that the other side of the pipe has no Avs
#	#		P-688	2.6	50	1977	
#	#		P-689	2	50	1977	
#	#		P-690	1.1	150	1977	
#	#		P-691	27	100	1977	
#	MH13		P-692	2.6	50	1977	
#	MH13		P-693	2.6	50	1977	
#	MH13		P-694	5.1	150	1977	
#	Truck fill		P-696	5.6	75	1977	
#	#		P-697	2.7	150	1977	
PMP-19	MH13		P-695(1)	1.5	50	1977	
PMP-19	#		P-695(2)	4.7	50	1977	
MH40A	MH9A		P-724	96.8	200	Unknown	
MH72	MH73		P-725	81.3	200	Unknown	

End of Appendix C