

**CITY OF NEWTON, MASSACHUSETTS
PURCHASING DEPARTMENT
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August 10, 2021

**ADDENDUM #1
INVITATION FOR BID #22-03**

WABAN HILL RESERVIOR IMPROVEMENTS (RE-BID)

THIS ADDENDUM IS TO: ANSWER THE QUESTIONS BELOW AND CHANGE BID SPECIFICATIONS AS SET FORTH IN ATTACHMENT A.

Q1. I don't see the bid item page in the Waban Reservoir bid 22-03. May I please get the document so I can include it?

A1. There is no bid item sheet required for this bid. The project is being bid as a lump sum as detailed within the Bid Form.

Q2. It is unclear based on drawing M-1 how much of the existing piping is to be sandblasted and coated. Some appears to go below the concrete floor and is of smaller diameter than the 24" shown. Is there a separate isometric drawing available that depicts the piping to be coated?

A2. All exposed piping will be sandblasted and painted. The existing floor will not be removed for painting purposes.

Q3. Please provide the width of the concrete walkway within the building's interior. Is anchoring permitted on this floor?

A3. The width of the concrete walkway around the building's interior is approximately 5-feet as scaled off Section 1/A-1.

In response to anchoring to the concrete walkway, this question cannot be answered without additional information related to the type of equipment to be anchored, use of the equipment to be anchored, anchoring system, etc. The structural integrity of the building and reservoir shall not be compromised. Any damage to the existing structure due to the General Contractor's means and methods shall be repaired at the General Contractor's expense. The City of Newton (City) reserves the right to review the means and methods of the General Contractor at any time during construction.

Q4. Reference section 1/A-1, please provide elevations from the concrete walkway down to the piping to be removed at the bottom of the pit.

A4. The elevation, as noted on Section 1/A-1 from the concrete walkway at the exterior finished wall, down to the piping to be removed at the bottom of the pit is approximately 21.3'.

Q5. Please confirm if there is an MBE/WBE percentage requirement as part of this contract?

A5. Please refer to the Instructions for Bidders, Article 4.

Q6. There is very minimal information to go by with respect to the called out covers for the tank & overflow covers. We contacted a local rep for Poly Processing who specializes in HDXLPE material tank fabrication which some of the information provided in the notes on drawing M-1 seem to reference. The rep noted that because these are domed lids that specially made molds would have to be fabricated to accomplish the odd sizes. The molds do not exist and would have to be made from scratch. They are 4-6 months out as they would be a special order which would have astounding costs alone (\$25,000 to \$30,000 for the 94" diameter as an example). The same information was expressed for FRP material as well. Please provide additional information such as suggested

manufacturers, the existing bolt pattern (if any), as-builts of the standpipe and any other information. Is another material substitute acceptable given the information provided?

A6. Due to the age of the infrastructure, there is minimal information available related to the tank and overflow. The existing bolt pattern would have to be measured and verified in the field by the General Contractor during construction. Material substitutes shall be considered as an "approved equal" and shall conform to the requirements listed within the Instructions for Bidders, Article 10. Bidders wishing to provide an equal item should do so with their bids.

Q7. Please confirm limits of cleaning of the 4 chambers. Is this only limited to the bottom of the chamber or bottom, all sides, columns, and ceiling?

A7. The limit of cleaning of the four chambers will consist of sediment removal from the floor of the chambers and light rinsing/pressure washing of the walls and columns.

Q8. Reference specification 09900, subsection 3.07...please confirm that only the interior piping/fittings, steel core tank are to be painted under this section. The entry door to be procured will come coated and if the cupola is to be pre-fabricated as indicated in section 10346 then this should not require painting as well.

A8. Only the interior piping/fittings and steel core tank shall be painted in accordance with Specification Section 09900.

Q9. Reference specification 01100, section 3.07 references that chambers 1, 3 & 4 can be isolated and drained if necessary. Who is responsible for draining the tanks?

A9. The City will drain a portion of the reservoir through normal usage, the remaining water in the chambers will be drained through the existing 12" drain lines to the greatest extent possible. Any remaining water to be pumped/removed shall be the responsibility of the Contractor.

Q10. Reference specification 01100, 3.07 references that chamber 2 must be online and active throughout the duration of the project. If chambers 1, 3 & 4 are cleaned, inspected, and put back online, would chamber 2 then be permitted to be drained to perform cleaning/inspection in the dry as well?

A10. Following completion of the Waban Hill Reservoir Improvements including disinfection/chlorination of chambers 1, 3, & 4, chamber 2 may be isolated and taken offline for cleaning and inspection.

Q11. Who is responsible for closing of all valves in line to the Waban Reservoir prior to work commencing, the Contractor or Town?

A11. The City will operate all valves associated with operation of the Waban Hill Reservoir.

Q12. Please confirm that all chlorination/disinfection is to be completed by the City of Newton Utilities Division. This includes the proposed piping within the building but also the chambers after they are dewatered.

A12. All chlorination/disinfection is to be completed by the General Contractor as noted in Specification Section 01100, 3.09 and Specification Section 02675

Q13. Reference drawing M-1. Please clarify the following call out, "1/2" tapped boss. 1'2 ball valve and copper piping with sampling port located 24" above grating (4 locations)". Please clarify what type of tap is being called out (i.e. brass, cast). Please provide clarity to the 1'2 call out. Please provide clarity to the location of the sampling ports...are they to be located on the first floor grating or second floor grating?

A13. The type of boss shall be welded during the manufacturing process and the same material as the new piping (stainless steel). The ball valves shall be 1/2" diameter. The sampling ports shall be located on the lower-level grating. The copper piping shall be anchored to the existing wall for stability where necessary.

Q14. Please confirm that the butterfly valves are to be operated from the second-floor grating and do not require valve stem extensions.

A14. The butterfly valves to be replaced at the bottom of the chamber will be operated from the grating at the bottom of the chamber. Valve stem extensions are not required to extend to the upper level.

Q15. Please clarify the limits of the inspection of each chamber after it is cleaned. Are the walls, roof and columns to be inspected again or is the floor the only component to be inspected?

A15. A complete interior inspection of each chamber shall be completed including but not limited to the floor, walls, roof, columns, and piping.

Q16. Please clarify if a bolt pattern exists at the existing top flange for the 61" x 49" overflow cover or will that have to be drilled in the field?

A16. A bolt pattern does not exist for the top flange of the overflow cover. The flange will have to be drilled in the field.

Q17. Upon a site visit, it appeared that an existing pipe located on the eastern wall east of the overflow pipe was wrapped in some type of insulation. Is this insulation to be removed for the purpose of painting this pipe? Is the insulation known to contain any asbestos?

A17. This insulation will be removed for the purpose of painting this pipe. It is unknown if this insulation contains asbestos. The General Contractor shall carry an allowance of \$2,500 for asbestos removal if needed.

Q18. Upon a site visit, the inside of the overflow tank was observed to contain sever corrosion. The scope of work under this contract calls for the overflow tank to be sand blasted, pit filled, pit welded and plate welded. Given the inside condition of the tank, there is no way to properly quantify the amount of repairs that will most likely be needed after sand blasting. Please consider adding quantities to bid against or provide some type of allowance to perform the necessary repairs.

A18. Quantities have been added to the drawings and specifications through this addendum related to pit welding (250 pits) and plate welding (200 square feet). See modifications listed below.

Q19. Please confirm if it acceptable to anchor existing concrete walls that support the roof structure of the building.

A19. This question cannot be answered without additional information related to the type of equipment to be anchored, use of the equipment to be anchored, anchoring system, etc. The structural integrity of the building and reservoir shall not be compromised. Any damage to the existing structure due to the General Contractor's means and methods shall be repaired at the General Contractor's expense.

Q20. Please confirm the style of valves to be utilized to replace the existing valves. In the specifications and drawings, the valves are called out as butterfly style but are not drawn as such. If the valves are butterfly style, this will result in the actuator and nut being offset of the valve and not over the top as is typical in a resilient seated gate valve setup.

A20. The style of valves to be utilized shall be butterfly valves.

All other terms and conditions of this bid remain unchanged.

**PLEASE ENSURE THAT YOU ACKNOWLEDGE ALL ADDENDA ON YOUR
BID FORM. FAILURE TO ACKNOWLEDGE ALL ADDENDA COULD
RESULT IN REJECTION OF YOUR BID AS NONRESPONSIVE.**

Thank you.



Nicholas Read
Chief Procurement Officer

ATTACHMENT A

THE SPECIFICATIONS AND DRAWINGS TO INVITATION FOR BID 22-03 ARE HEREBY AMENDED AS FOLLOWS:

1. Reference Specification Section 01010, 1.01A

Item No. 9, Delete in its entirety and replace with the following:

“9. Sand blasting, pit filler (up to 5 gallons), pit welding (up to 250 pits), and plate welding (up to 200 square feet) interior and exterior of central core standpipe.”

Item No. 11, Delete in its entirety and replace with the following:

“11. Paint exterior of all process piping. Remove and properly dispose of existing insulation prior to painting. Insulation type unknown. General Contractor shall carry allowance of \$2,500 for removal of asbestos insulation if needed”

2. Reference Specification Section 01100, 3.01, Insert D:

“D. The City of Newton will drain a portion of the Waban Hill Reservoir through normal usage, the remaining water in the chambers will be drained through the existing 12” drain lines to the greatest extent possible. Any remaining water to be pumped/removed shall be the responsibility of the Contractor.”

3. Reference Specification Section 09900

Insert Paragraph 1.04:

“1.04 SPECIAL PROVISIONS

A. Pit Welding

1. Pit welding (up to 250 pits) shall be performed on all pits along the interior surfaces (if any) that represent a 30% or greater reduction in dimensional size of the area in question.
2. All pits shall be welded in such a manner as to ensure 100% fusion with the parent metal and to bring pits flush with original plate surface. All pits shall be free of surface porosity and ground flush to ensure continuity of the applied coatings.
3. The pitted surfaces (if any) are to be abrasive blasted to an SSPC SP10 near white metal blast grade so that an accurate measurement of the extent of metal loss can be determined. All areas requiring welding will then be identified and marked by the onsite inspector after which the CONTRACTOR will perform the welding repairs. All repaired areas will then be re-blasted to the degree originally specified prior to applying the specified coatings.
4. All welding will be at the direction of the on-site observer and is to be in accordance with AWWA D-100 Standards, latest revision thereof.

B. 100% Solids Epoxy Filler

1. The CONTRACTOR shall coat all areas of excessively rough surface profile, weldment and/or metal loss representing less than a 30% and greater than a 20% reduction in wall thickness with a trowel grade 100% solids epoxy filler (up to 5 gallons) so as to bring these surfaces level with the original plate surfaces. In addition, the Epoxy Filler shall be applied around any interior

plate seams where gaps exist more than 1/32". Tnemec's Series 215 Surfacing Epoxy, or an approved equal, shall be used.

- C. Steel Plating
- D. The CONTRACTOR shall weld a new steel plate (up to 200 square feet) onto any areas that develop a hole either during abrasive blast cleaning and/or welding or represent a concentrated metal loss. The steel plate shall be of sufficient size so as to tie into sound metal and have at least a ¼ inch fillet weld around the entire plate. The thickness of the steel patch shall be based on location, as well as size and purpose of the patch. The minimum thickness of the steel patch shall be no less than ¼ inch.

Heating and Dehumidification

- 1. The CONTRACTOR shall be responsible for providing any and all heat and dehumidifiers required to maintain minimum specified conditions to complete the work during the coating application and through the full cure period.

Paragraph 3.07, Delete Items 3 & 4.

DRAWING MODIFICATIONS:

- 1. Reference Sheet M-1. Reference tapped boss, ball valve, and sampling port call out. Delete in its entirety and replace with the following:

“½” welded stainless steel boss. Install ½” ball valve and copper piping with smooth nosed sampling port located 24” above grating (typ. – 4 locations). Anchor copper piping to existing wall for stability every 24”.”

- 2. Reference Sheet M-1, Rehabilitation Notes
Note No. 1, Delete in its entirety and replace with the following:

“1. All exposed interior piping shall be sand blasted and painted. Colors to be chosen by Owner. See specifications sections 09860 and 09900. The existing floor shall not be removed for painting purposes.”

Note No. 2, Delete in its entirety and replace with the following:

“2. Sand blasting, pit filler (up to 5 gallons), pit welding (up to 250 pits), and plate welding (up to 200 square feet) shall be performed along interior and exterior of central core standpipe. Paint interior and exterior of central core standpipe. Colors to be chosen by Owner. See Specifications Sections 09860 and 09900.”

Note. No. 3, Insert E:

“E. Overflow cover flange bolt holes shall be drilled in the field.”

Note No. 7, Delete in its entirety and replace with the following:

“7. Contractor shall rinse and/or pressure wash the interior walls, columns, and floors and vacuum/remove all sediment from the floors of the four (4) 2.5 million-gallon chambers of the Waban Hill Reservoir per AWWA standards. Rinsing and pressure washing shall not damage the existing masonry, fabric baffles, fabric curtains, fabric liners, piping, etc. Damage caused during cleaning shall be repaired at no cost to the Owner. A complete interior inspection of each chamber shall be completed including but not limited to the floor, walls, roof, columns, fabric baffles, fabric curtains, fabric liners, piping, etc. Inspection report shall be submitted to the Engineer for review.”