

**ADDENDUM NO. ONE**

**100<sup>TH</sup> AVENUE WATERLINE REPLACEMENT**

**PROJECT NO. 20-33**

**CITY OF THORNTON, CO**

TO: Prospective Bidders and all others concerned

DATE: September 23, 2022

PURPOSE: To provide additional information and clarification to the solicitation documents for the above-referenced Project.

1. The following shall Add to, Modify, and/or Delete portions of the Project Manual and Drawings for the Project-noted above.
  - A. The due date for bids has been extended. Under this addendum, the due date shall now be:
    - a. Thursday, October 6, 2022, at 2:00 pm; no late bids will be accepted.
  - B. The Project Manual shall be modified as follows:
    - I. The following clarifications are made:
      - a. Temporary Water Service Clarification: Temporary water service will be required for this Project. Temporary water service will be needed to supply potable water to six (6) homes on the west side of Marion Street, south of 100<sup>th</sup> Avenue, as this is a dead-end line, and one (1) home with a service line tying directly into 100<sup>th</sup> Avenue. Please refer to drawing G-2 note 32. An exhibit for these six (6) effected homes and service line, including existing water infrastructure per GIS, is given in **Appendix A**.
    - II. Section 33 11 10, Water Utility Distribution Piping
      - a. Replace Part 2.1.C.5.b, on page 11, with the following:

Comply with AWWA C900 DR 14 (Class 305), AWWA C900 DR 18 (Class 235), or AWWA C900 DR 21 (Class 200) unless shown otherwise in the Drawings or specified elsewhere.

- b. Replace Part 2.1.C.6.a, on page 11, with the following:

Comply with AWWA C900 DR 14 (Class 305) or AWWA C900 DR 18 (Class 235) unless shown otherwise in the Drawings or specified elsewhere.

III. Section 01 22 20, Unit Price Measurement and Payment

- a. Replace Part 2.1.B, page 4, with the following:

Payment: Payment for mobilization shall be on a lump sum basis. The lump sum price for this item includes, but is not limited to, all labor and equipment required for mobilization, demobilization, procurement of bonds, insurance, permits, and any related items not specifically included above. The payment for this item shall also include all labor, material, and equipment required for all detail surveys necessary for layout and construction.

IV. Section 32 12 16, Asphalt Concrete Pavement

- a. Replace Part 2.2.A.1 with:

Use HMA PG 64-22 grade S for base course and grade SX for the top course. Conform to the requirements as specified in Section 401 and 403 of the CDOT Standard Specifications.

2. The following questions and answers are provided for additional clarification to the Contract Documents.

**Question 1:** What type of Backfill are you looking for? Flow Fill or Structural fill.

**Answer 1:** From observations made during potholing operations for this project and from the construction of a previous project phase which found most of the native soil to be suitable for trench backfill, it is anticipated that most of the native soil within this project's limits should be suitable for trench backfill. The imported backfill quantity in Bid Item 31 has been provided under the assumption that approximately fifteen percent (15%) of the native soils may be found unsuitable for backfill and therefore imported soil type S2 may be required. Please refer to Detail 4 (sheet C-12) and Detail 20 (sheet C-15) which have been modified for clarity as part of Addendum No. 1. Please also refer to the original Bid Set Specification Section 31 05 13. Flow fill is not required unless the trench is less than two feet-wide and ninety-five percent (95%) compaction cannot be obtained, which is not anticipated to occur.

**Question 2:** Can materials be staged at the provided areas? What rules and regulations surround storing on asphalt?

**Answer 2:** The erosion control detail MM-2 Stockpile Management (SP), found in sheet ESC-7 on page 29, specifies the installation and maintenance requirements for staging and stockpiling materials. For materials that will be staged in the roadway, please refer to part SP-2 Materials Staging in Roadway, which is referenced in the Erosion Control Plans with "SSA-R".

**Question 3:** Looking at the Water Trench Detail, Will the Filter Fabric and the Stabilization Material be needed?

**Answer 3:** A Geotechnical Investigation was not performed as part of the design for this Project, so it is uncertain whether filter fabric and stabilization material will be required. However, during potholing operations no groundwater or other observations were made that would indicate the need for filter fabric or stabilization material due to unstable subgrade. In addition, during the construction of a previous phase of this project most of the native soils were found to be suitable for backfill. Thus, it is not anticipated that filter fabric or stabilization material will be required but it is shown on the water trench detail in the event that areas of soft trench bottom are encountered during construction.

**Question 4:** With regards to PVC:  
a. C900 DR18 may be more readily available than C900 DR25. Would the City accept DR18 up to 12" if this is the case?  
b. Could you please clarify whether DR21 or DR18 is required for the 16" PVC and 20" PVC? And if applicable, would the City be accepting of either thickness depending on availability?

**Answer 4:** All PVC pressure pipe of 4-inch through 12-inch diameter shall be AWWA C900, DR 14, Class 305, AWWA C900 DR 18, Class 235, or AWWA C900 DR All PVC pressure pipe of 14-inch through 48-inch diameter shall be C905, DR 18, Class 235. The respective Technical Specification section has been modified with this Addendum No. One.

**Question 5:** What is the size of the existing water service at STA 35+68.55 on Sheet C-6?

**Answer 5:** The size of the existing water service at STA 35+68.55 is unknown. The Contractor shall assume that it is ¾-inch diameter for bidding purposes and then verify in the field prior to construction.

**Question 6:** What asphalt mix is the City wanting to use on the patching and the overlay?

**Answer 6:** Per Technical Specifications Section 32 12 16, the Contractor shall use HMA PG 64-22 grade S for the base course and HMA PG 64-22 grade SX for the top course in conformance to the requirements as specified in Section 401 and 403 of the CDOT Standard Specifications. See specification revision included with this Addendum.

**Question 7:** Is Bid Item 31 Imported Backfill quantity 800 CY intended for this flow fill? Is Flash fill an approved equal to flow fill in the City of Thornton?

**Answer 7:** Please refer to Answer 1 above.

**Question 8:** Will we need to include the cost of the soil's tester in our bid, or will Thornton supply the soils tester

**Answer 8:** Contractor is responsible for the soil tester so they will need to include it in their bid per Section 31 05 13 Part 1.5B.

**Question 9:** Will we need to include survey for offset stakes or will Thornton supply survey?

**Answer 9:** Contractor will need to supply survey per Specification 01 10 00, Part 1.3. The Measurement and Payment has been modified such that all detail surveys necessary for layout and construction shall be included in the payment of Bid Item No. 1, Mobilization.

**Question 10:** Is there a dedicated staging area?

**Answer 10:** The Contractor shall assume the staging area will be as shown per the Erosion and Sediment Control sheets. The Contractor may coordinate with the City prior to construction if an alternative staging area is desired.

**Question 11:** When we drain the existing water main, will we be allowed to discharge into the sewer main or will we need to discharge in a water truck?

**Answer 11:** The Contractor may discharge into the sewer main only if the water is dechlorinated prior to the discharge. The cost for dechlorination is included in the dewatering cost per Specification 01 20 00 Part 2 Bid Items. Otherwise, the contractor will have to discharge using a water truck. All construction activities dewatering must comply with the State of Colorado Permitting process for "stormwater discharges associated with construction Activity." For information, please contact Colorado Department of Health, Water quality control division.

**Question 12:** Will we be able to close any of the work area during the day for construction or must maintain traffic in both directions

**Answer 12:** Traffic shall be maintained in both directions for daytime work for the purpose of bidding.

**Question 13:** It appears the quantity for asphalt R&R is pipe OD plus 3'? If there are unstable soils that require a wider trench, will that be an extra

**Answer 13:** The quantity for asphalt R&R is generally based on a 5-foot-wide trench, with a 2-foot T-patch on each side for a total width of 9 feet of full-depth patching. If a wider trench is required due to unstable soils or other, this will be coordinated with the City of Thornton prior to any additional work being completed through a change order to the project.

**Question 14:** Asphalt patch back question. Is the existing asphalt depth known? If not, what depth should the contractor assume for bidding purposes. Note 1 on the trench patch back detail indicates 6 inches or match existing thickness plus 1 inch. Since the existing thickness is not known what depth should a contractor bid?

**Answer 14:** A Geotechnical Investigation was not completed for this project; however, potholing operations consistently showed an asphalt thickness of approximately 11" on 100th Avenue. The patch back depth shall be 12" to match existing + 1". The 12" thickness was used to calculate the tons of Hot Mix Asphalt (HMA) Full Depth Patch in the bid form. Please refer to Detail 4 (sheet C-12) and Detail 20 (sheet C-15) which have been modified for clarity as part of Addendum No. One.

3. This Addendum becomes part of the Contract Documents. All other conditions and requirements of the Contract Documents will remain unchanged. Receipt of this Addendum must be acknowledged in the space provided on the Bid Proposal Form in the Project Manual.

### ***END OF ADDENDUM NO. ONE***

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Jim Jensen  
Contracts Manager

Date