



City of Austin

PUBLIC WORKS DEPARTMENT

Project Management Division

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May 20, 2016

PROJECT: Waters Park Relief Main & Southern Portion of Northern Walnut Creek Trail Phase 1A

CIP ID: 3168.039

IFB#: 6100 CLMC577

SUBJECT: Answers to Bidders Questions as of the date of this letter, per 00100-IFB Article 1.(3)(C).

Q-1: Do we need to do by-pass pump during the pressure testing and mandrel testing?

A-1: Per article 1.25 of specification 01010 Summary of Work "Existing water and waste water facilities shall be kept in continuous operation throughout the construction period.". This is a means and methods issue.

Q-2: Bid item SS03465-A72 watertight precast 72" manholes, are the manhole joints going to require manhole seals as per SPL-WW146A? I don't find a detail in the plans for this.

A-2: See special specification SS03465 2.02B.

Q-3: After reviewing the plans and bid items I'm having a difficult time finding the following bid items. Can you point out where these are in the plans?

- 504S-3W ADJUST WATER VALVE BOXES (8) each
- 506S-4WW MINOR MANHOLE HEIGHT ADJUSTMENT (8) each
- 510-AW6DIA 6" DUCTILE IRON (200) feet
- 510-AW8DIA 8" DUCTILE IRON (200) feet

A-3 *504S-3W ADJUST WATER VALVE BOXES (8) each – Please see sheets 10-13.

* 506S-4WW MINOR MANHOLE HEIGHT ADJUSTMENT (8) each – Please see sheets 10-13.

*510-AW6DIA 6" DUCTILE IRON (200) feet – See addendum number 3.

*510-AW8DIA 8" DUCTILE IRON (200) feet – See addendum number 3.

Q-4 I noticed that there is some trenchless installation, 564 LF of what diameter and type of piping?

A-4 See plan sheets 9 & 13.

Q-5 What is the method of trenchless?

A-5 See special specification SS02430.

Q-6 Are there any portions of the project that will need to be bored?

A-6 Please bid the work per plans and specifications.

Q-7 Are the crossings to be Jack & Bored or Directionally Bored?

A-7 Please bid the work per plans and specifications.

Q-8 What are the approximate length and diameter of the portions to be bored?

A-8 Please bid the work per plans and specifications.

Q-9 Is there a bid bond requirement?

A-9 See Bonds and Certificates, General Conditions/00700, and Supplemental General Conditions/00810 in the Volume 1 of the bid documents.

- Q-10 Will the City accept FRP pipe in the tunnel?
A-10 Please bid the work per plans and specifications.
- Q-11 Will the City consider FRP pipe for the open cut portion of the project?
A-11 Please bid the work per plans and specifications.
- Q-12 Do we need to backfill with CLSM per detail trench repair detail 510S-3R or can we use native material as backfill until we get to proposed flex base?
Q-12 See Addendum #3
- Q-13 Are the Void Mitigation bid items associated with the tunnel or open cut portions of the project as the cost for "Downtime Associated with Observation of Voids and/or Flowing Water" is dramatically different for a tunneling spread and an open cut spread?
A-13 See Addendum #3
- Q-14 What is the material of the existing water and sewer services that will most likely be damaged during construction and what is to be reinstalled if/when they are damaged?
A-14 See General Conditions/00700 article 4.2.3 and article 6.11.1. Please bid the work per plans and specifications.
- Q-15 On the bid item for 522 LF of Abandonment of AC Pipe including CLSM, we cannot find the detail on depth nor where the detail is on the location of this pipe.
A-15 Please see sheets 9, 22, & 23 of the plans
- Q-16 Any further details you wish to provide?
A-16 Please bid the work per plans and specifications.
- Q-17 The project tunnels as per the project specifications can be constructed using a Micro tunnel Boring Machine or a Tunnel Boring Machine. Regardless of the method used, the payment will be made under contract pay item no SS02430

Special Specification SS02420 which covers Tunnel Excavation by Micro tunnel Boring Machine section 1.05 "Quality Assurance and Control" requires ten (10) years' experience in Micro tunnel Construction for the Micro tunnel Project Manager and five (5) years of experience in micro tunnel excavation with the methods specified for the tunnel machine operators yet, Special Specification SS02430 Tunnel Excavation by Tunnel Boring Machine Section 1.08 "Quality Assurance and Control" while requiring the same qualifications for the tunnel manager and for the tunnel machine operators as SS02420 has an additional requirement for a tunnel engineer with ten (10) years of experience.

Is one of the specifications incorrect or is there a reason why an engineer would be required on the tunnel boring machine method and yet not on the micro tunneling process while constructing the same small diameter tunnel? (which in essence is only a large diameter bore)

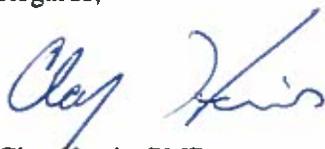
- A-17 See addendum #3
- Q-18 Special Specification SS02430 -Tunnel Excavation by Tunnel Boring Machine Section 2.01.A "Tunnel Boring Machine" describes the requirements of the machine to be used on the project. We are contemplating the use of a boring machine custom made in the Austin area which has already been used successfully, to construct tunnels, on six (6) City of Austin Projects. Despite the fact that this machine was not designed or built by a recognized TMB Manufacturer it has a proven track record, will be rebuilt, will meet project specifications (except for the manufacturer) and has a recognition of its' own,

which is that of Texan ingenuity, expertise and quality. We would respectfully ask for this machine (and any other of a similar nature and proven track record) to be considered as qualified for this work.

A-18 See addendum #3

Please call with any questions or concerns.

Regards,

A handwritten signature in blue ink that reads "Clay Harris". The signature is written in a cursive, flowing style.

Clay Harris, PMP
Project Manager

c: Tom Owens, PE, K-Friese & Associates
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Jennifer Lui, PE, Austin Water Utility
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Project file