



CITY OF SUFFOLK

Purchasing Division

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ADDENDUM NO. 2

INVITATION TO BID NO. 2013-00010

36-inch Raw Water Transmission Main Project – Phase I

Dated: October 9, 2012

Bidders on the above-named Project are hereby notified that the documents have been revised as indicated below. All bid submittals shall conform to this Addendum. Bidders are responsible for familiarizing themselves with the modifications and the effect they may have on the scope of work.

The following changes are incorporated into the Bid Documents. Refer to the original contract documents for the complete specifications and Terms and Conditions.

Bids will be accepted until 3:00 pm Friday, October 19, 2012 as stated in Addendum No. 1

Questions/Clarifications

1. Q. In relationship to the horizontal directional drill (HDD). Have critical collapse pressure calculations been performed on the pipe? Is a copy available for review?
A. The Contractor is responsible for submitting his own calculations to successfully complete the work, as stated in Section 02520 of the Specifications. Design calculations are not available for review.
2. Q. In relationship to the HDD, and soil borings. Have maximum mud pressure calculation been performed? Is a copy available for review?
A. The Contractor is responsible for submitting his own calculations to successfully complete the work, as stated in Section 02520 of the Specifications. Design calculations are not available for review.
3. Q. Based upon similar project in the Suffolk, VA area, and experience with soil conditions. Can the HDD crossing be extend by approximately 300-500 LF? Additional length would be added at both ends of the bore, essentially adding depth of cover at critical areas (Approximately Sta 22+00 & 37+00), and minimizing the potential for inadvertent returns.
A. The project shall be constructed as shown in the bid documents.

4. Q. Can hours of operation be extended? Would there be any additional inspection fees for OT?
- A. Hours of operation shall remain as stated in the bid documents.**
5. Q. Are copies of permits, or special requirements available for review?
- A. The City has and/or will obtain the required permits from Virginia Department of Health (VDH), Department of Historic Resources, Virginia Marine Resources Commission (VMRC), and Army Corps of Engineers (USACOE) Nationwide Permit. No special requirements are presented in these permits. Copies of the permit can be viewed at the Engineer's office, upon request.**
6. Q. What permits and permit costs are requirements of the contractor?
- A. Section 01410 of the Contract Specifications provides a list of the permits the contractor is required to obtain.**
7. Q. Will a CAD file be available for prebore and asbuilt information on the HDD?
- A. Upon award of the contract a CAD file may be provided to the contractor upon request.**
8. Q. Are Long/Lat available for entry and exit points?
- A. Northing and easting coordinates for the entry and exit points are shown on the plans.**
9. Q. Can the temporary construction easements for the entry and exit locations be moved / extended?
- A. No. Temporary construction easements cannot be modified.**
10. Q. Can layout, leveling, stone and construction of bore pad, be added to the schedule of units?
- A. Additional bid items will not added to the schedule of unit prices. The cost of these items shall be considered incidental to the horizontal directional drill.**
11. Q. Is there a produced in the United States requirement for materials?
- A. No.**
12. Q. Section 02511, 2.01D Pipe: Minimum finished pipe wall thickness for 36-inch nominal diameter pipe shall be six hundred twenty-five thousandths inches (0.625"). Does the pipe need to be minimum .625", or nominal?
- A. The minimum wall thickness shall be 0.625" as stated in Section 02511.2.01.D.1 and in accordance with the tolerance allowed by AWWA C200.**

13. Q. There appears to be a discrepancy between this project and the City of Norfolk's WTWA Pump Station Improvements Project. Please confirm the tie-in coordinates of this contract match.

A. The tie-in coordinates for each project have been confirmed and are correct as shown on the Contract Drawings.

14. Q. Wondering if we could substitute 42" SDR11 dips pipe instead of 36" steel. Also do we have 40' of easement on drill set up side, 40' needs to be the minimum space required to set up a big rig. There should be a considerable savings in just the handling of HDPE pipe verses the steel pipe

A. No. Steel pipe shall be bid as stated in the Contract Documents. The temporary construction easement allows for greater than 40 ft on the entry side of the drill.

15. Q. Regarding steel pipe. Due to the size and choice of steel pipe and coating it is unlikely that we will be able to find a manufacturer that will do both. Section 02511 Part 1.02A specifies a single manufacturer. Will the Owner allow a separate coating and pipe manufacturer? Note in Part 1.02D the specification implies that the pipe might be coated in a different facility.

A. The contractor may use a separate coating manufacturer than pipe manufacturer.

16. Q. 02511 1.02E references ASTM A139 – Electric-Fusion (ARC) Welded Steel Pipe. Will Double Submerged Arc-Welded Pipe be considered (meets all AWWA and NSF/ANSI 61 requirements).

A. No, double submerged arc-welded pipe will not be considered.

17. Q. 02511 1.02E references ASTM C200 – Per this standard the pipe wall thickness tolerance is plus or minus 0.01", however steel pipe mills are not set up to roll to this tolerance. Getting them to set up for this will result in some of the pipe being rejected which will increase the price of the pipe. Will the city consider accepting the API standard which is plus/minus 0.06" (this is what all the pipe mills will have their ISO certification for). Alternately, they can keep the low tolerance "minus 0.01" but increasing the upper tolerance to "plus 0.11", this results in a slightly more expensive pipe than the plus or minus 0.06", but not nearly as expensive as plus or minus 0.01".

A. AWWA C200 allows a tolerance of no less than 0.010 inches of the ordered pipe thickness and does not specify an upper tolerance. The pipe thickness shall be manufactured in accordance with AWWA C200.

18. Q. Section 02520 Part 1.03C States "No fluid shall be used that does not comply with permit requirements and environmental regulations". Is it possible to get a copy of any permits that will affect allowable fluids?

A. All drilling fluid and additives shall comply with the federal, state, and local environmental regulations. No special requirements are presented in these permits. Copies of the permit can be view at the Engineer's office, upon request.

19. Q. 02520 Part 3.01 – C.1 This specification indicates that the drill in the plan view must as shown on the drawings (no tolerance), this is not realistic. We suggest as left/right tolerance of plus/minus 15 feet. And a vertical tolerance of plus zero minus 20 feet. Is this acceptable?
- A. See Section 02520.3.01.C.3 for the allowable left/right tolerance. A vertical tolerance of plus zero minus 10 feet will be acceptable.**
20. Q. Please confirm that a wireline steering system is required for the HDD.
- A. The Contractor is required to submit his method of monitoring and controlling line and grade of the drill for approval. Wireline steering is not a requirement.**
21. Q. Please confirm that Scotchkote 6352 will be considered an “approved equal” to Powercrete J. 6352 is designed to work with the base 6233 coating as a dual layer system.
- A. Scotchkote 6352 will not be considered as an approved equal.**
22. Q. Please confirm that Scotchkote 134 (FBE) will be consider an “approved equal” to Scotchkote 162PWX (liquid epoxy) for the interior lining.
- A. Scotchkote 134 will be considered as an approved equal.**
23. Q. Please confirm that Scotchkote 206N (FBE) will be considered an “approved equal” to Scotchkote 323 for interior joint coatings.
- A. Scotchkote 206N will be considered as an approved equal.**
24. Q. Drawing 119229-05HDD – Can you please provide the designed entry and exit angles as they are not identified on the drawing.
- A. The design of the HDD has been revised see the revised Sheet 5 as part of this addendum.**
25. Q. Drawing 119229-05HDD – The vertical curve on the exit is labeled as a 7,500’ radius, we assume this is a typo, can you please clarify the correct radius?
- A. The design of the HDD has been revised see the revised Sheet 5 as part of this addendum.**
26. Q. Has a complete annular pressure analysis been performed on the drill? It appears that there will only be about 20’ of cover at the edge of “Reids Ferry”. Based on our experience it appears this area will have a very high chance of a “frac-out”. Would it be possible to extend the drill to allow for more cover in this area? Is an annular pressure monitoring tool going to be required to help monitor down hole pressures in this area? If the drill cannot be extended will the city require the use of 54” surface casing to ensure there will not be a frac-out?

- A. The entry angle has been adjusted to allow for approximately 34 ft of cover at the edge of Reid's Ferry. The contractor is responsible for the means and methods used to minimize the potential for a "frac-out". The vertical curve alignment in this area limits the use of a steel casing for this purpose. Section 02520 paragraph 3.01.B requires the drilling fluid pressure to be measure at all times.**
27. Q. Please confirm that the power poles at the entry point of the HDD will be relocated to allow for the setup of the drill rig.
- A. The power pole will be relocated to allow for drill setup.**
28. Q. Please confirm that we will be able to level out the exit side workspace of the HDD to allow room for our equipment.
- A. The area can be leveled as necessary to complete the work, but shall be restored to the original contours at no additional cost to the owner.**
29. Q. Section 02315 para. 1.02 states the excavation performed under this contract shall be unclassified excavation. Para 2.01 Para. B & C describes satisfactory and unsatisfactory soils. In reviewing the soils reports, most of the 5 boring locations indicated a SC or CL material which in unsatisfactory. I understand backfilling the pipelines located under roadways or structural area that receiver's select backfill, but a good majority of this project will not be under paving or driveways. It is the intent of the city to backfill this entire pipeline with select fill?
- A. Section 02315.2.01 has been removed from the specifications. In non-paved areas, the pipeline shall be backfilled with suitable fill material as defined in Section 02315.2.02.B.**
30. Q. The proposed variable width utility easement does not indicate width (especially at the critical areas between station 30+00 and 40+00. Can we get a drawing that better indicates the width of the easement?
- A. Easement widths can be scaled from the drawings.**
31. Q. Also, what is the allowable variable horizontal deviation for the pilot bore (how much can the pilot bore deviate from the proposed path)?
- A. See response to question 20.**
32. Q. Specifications only allow for work to be performed M-F 7:00 a.m. – 4:00 p.m. Can we get approval prior to the bid to work 7 days a week and 12 hours a day? The specified hours of operation are not conducive to the type of HDD construction being performed.
- A. The hours of operations shall remain as stated in the bid documents.**
33. Q. Due to the nature of the soils listed in the geotechnical report, contained within the specifications, it will be necessary to introduce additives into the bentonite slurry during boring operations. Some additives will be imperative to completing the bore. How do we get approval for such additives prior to the bid (as our bids will be based on the use of these additives)?

A. All drilling fluid and additives shall comply with the federal, state, and local environmental regulations. No special requirements are presented in the City obtained permits.

34. Q. Is there a calculated E and S permit Cost?

A. No. The Contractor is responsible for obtaining the Land Disturbing Permit.

35. Q. Specification 03400 requires the 5' Ø precast combination vault manufacturer to be NPCA and PCI certified, etc. and qc programs per The Prestressed Concrete Institute QC Manual MNL 116. We are a VDOT Certified Precast Concrete Manufacturer and produce daily under a VDOT Approved QA/QC Program. Will this be an acceptable alternate to the project specification?

A. Yes, a VDOT Approved QA/QC Program will be accepted as an alternate.

END OF QUESTIONS/CLARIFICATIONS

REVISIONS TO CONTRACT SPECIFICATIONS

1. Instruction to Bidders 16. Bidder Qualifications

ADD “The Bidder shall submit specific evidence documenting the successful installation of at least three (3) raw water, potable water or sanitary sewer force main pipeline projects completed within the past five (5) years of similar complexity and field conditions. Pipe material for the projects must have been ductile iron pipe, 24-inches in diameter or larger. Experience from a subcontractor shall not be accepted from the Bidder for this item.

Attach additional pages to the QUESTIONNAIRE as necessary to provide this information.

Trenchless Crossing Contractor: Trenchless Crossings shall be constructed by personnel fully qualified and experienced for the Work. The Contractor shall have a minimum five (5) years of experience of the type, size and complexity similar to the work on this project. Experience from a subcontractor shall be accepted from the Bidder for this item.

Attach additional pages to the QUESTIONNAIRE as necessary to provide this information.

Horizontal Directional Drilling (HDD) Contractor: The horizontally drilled, directionally controlled method shall be performed only by an experienced HDD Contractor with an experienced resident superintendent with a minimum of five (5) years of experience of the type, size and complexity similar to the work on this project. The Contractor shall submit specific evidence documenting the successful installation of at least three (3) directionally drilled steel pipe installations in the last five (5) years, which were 24-inches or greater in diameter and minimum of 1,500 feet in length. Experience from a subcontractor shall be accepted from the Bidder for this item.

Attach additional pages to the QUESTIONNAIRE as necessary to provide this information.”

2. Questionnaire, Item Number 8., 2nd Line

DELETE “past three years.”

REPLACE WITH “past five years.”

3. Paragraph 01410.1.03.E.5

DELETE Section 01410.1.03.E.5 in its entirety.

REPLACE WITH “5. The City will obtain the following permits: Virginia Department of Health (VDH), Department of Historic Resources, Virginia Marine Resources Commission (VMRC), Department of Environmental Quality (DEQ), and Army Corps of Engineers (USACOE) Nationwide Permit”.

4. Section 02315.2.02.B

REPLACE WITH “1. Type I: Type I material shall consist of clean earth excavated from the trench or imported from offsite containing no stone larger than ¾ inch across.

5. Section 02315.2.02.B

ADD “3. If the Contractor fails to protect the suitable fill material excavated from the trench, thereby allowing it to become unsuitable, the Contractor shall provide suitable fill material imported from off site at no additional cost to the owner.”

6. Paragraph 02511.1.02.E

DELETE Paragraph 02511.1.02.E.5 in its entirety.

7. Section 02520.1.02.A

DELETE Paragraph 02520.1.02.A.3 in its entirety.

8. Section 02520.1.03.B

DELETE 1st Sentence

REPLACE WITH “Instrumentation: The Contractor will at all times provide and maintain instrumentation which will accurately locate the pilot hole and measure drilling fluid flow discharge rate and pressure both at the drill cab and pressure in the annulus space behind the drill bit.”

9. Section 02520.3.05

ADD "H. Pipe Pull Back: The pull back operation shall be progressed on a continuous basis without stoppage until the installation is completed."

END OF REVISIONS TO CONTRACT SPECIFICATIONS

REVISIONS TO CONTRACT DRAWINGS

1. **DELETE** SHEET 5 in its entirety

REPLACE WITH Attached SHEET 5 (revision date 10/9/12)

END OF REVISIONS TO CONTRACT DRAWINGS

All other parts of the Contract Documents remain unaltered except as noted by this Addendum and attachments. Bidders must acknowledge receipt of this Addendum on the Bid Form (BF-1).

The Bid acceptance date and time remain the same.

**** END OF ADDENDUM NO. 2****