



LAKE HAVASU CITY

LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 2

2015/16 Water Main Replacements
Project No. WT3080

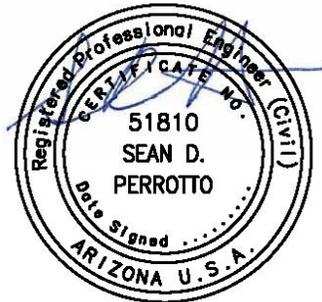
DATED: OCTOBER 12, 2016

This addendum forms a part of the contract described above. The original Contract Documents in full force and effect are modified by the following changes. Addendum No. 2 will take precedence over any conflicting provisions in the prior documents.

Each bidder shall acknowledge receipt of this addendum and by affixing its signature on the acknowledgement form attached, by noting this Addendum on the Bid Form and by attaching this Addendum and/or acknowledgement to its bid.

The following changes are to be made and become part of the Bid/Contract Documents. The changes are as follows:

By: 
Sean Perrotto, P.E.
Slater Hanifan Group



Date: 10-12-16

Expiration 12/31/2016



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ACKNOWLEDGEMENT

The undersigned bidder acknowledges receipt of this addendum and the Bid Submitted is in accordance with the information, instructions and stipulations set forth herein.

Proposal received without signed acknowledgement of Addendum will be cause for rejection.

Addendum No. 2 (Dated October 12, 2016) Acknowledged By:

Company Name

By Authorized Representative's Name & Title (Print or Type)

Signature of Authorized Representative

Item No. 1 –

The following questions were received from bidders. Answers are provided herein by the OWNER and ENGINEER:

- 1. Question:** *“Is there a soils report? If not what type of soils is expected?”*
Answer: Refer to Addendum No. 1, Item No.1.18.
- 2. Question:** *“Any hard dig excavation? If so will there be additional compensation for this?”*
Answer: Refer to Addendum No.1, Item No.1.18. Difficult excavation is expected and the Contractor will not be additionally compensated.
- 3. Question:** *“Do you anticipate any ground water?”*
Answer: The Contractor’s attention is directed to the “General Soil Conditions” on Sheet 2.
- 4. Question:** *“Is native excavated materials suitable for backfill of trenches?”*
Answer: The Contractor is directed to Specification 02300 for backfill material requirements.
- 5. Question:** *“Who is responsible for survey and compaction testing?”*
Answer: The Contractor is directed to Specification 01210, Section 4.2.1, and Item Nos. 1 and 2 below.
- 6. Question:** *“Are there any permits required? If so who is responsible?”*
Answer: Yes, the Contractor is responsible for all required construction permits.
- 7. Question:** *“Is there a sequence we need to follow or we can start at any section?”*
Answer: The Contractor’s attention is directed to Specification Section 01510.
- 8. Question:** *“Does the city has a designated site for spoils or excess materials including asphalt and concrete?”*
Answer: The Contractor’s attention is directed to Specification 00800, Section 21.0.
- 9. Question:** *“Are the existing waterline just being abandon in place and they won’t require any grout fill?”*
Answer: The Contractor’s attention is directed to Specification 02550, Section 3.9.
- 10. Question:** *“At what points or sections are we to use flowable fill per detail 2 on sheet 31? if this is only required when crossing utility lines, what is the length we are supposed to go each side of utility line?”*
Answer: The Contractor’s attention is directed to Specification Section 02310 for placement requirements. It shall be placed no less than 12” from outside of pipe.
- 11. Question:** *“Is flowable fill required on transverse trenches also?”*
Answer: No. The Contractor’s attention is directed to Specification Section 02310 for placement requirements.
- 12. Question:** *“What is the pavement width you are using to get to these quantities? and does these quantities include any additional pavement were is some cases if we are within 2’ of*

face of curb we are required to remove and replace asphalt all the way to the curb per detail 1, note #10, plan sheet 31.”

Answer: The Contractor’s attention is directed to Detail 1 on Sheet 31 regarding pavement width. The pavement quantity shown in plans incorporates all removal and replacement for the project.

13. Question: *“Are we replacing the whole service from main to meter and no couplings are allowed on the long services only?”*

Answer: The Contractor’s attention is directed to Detail 4 on Sheet 32. The entire service will need replacement if the water service needs to be extended, as couplings shall not be used.

14. Question: *“Detail 4, sheet 32 on the short service detail there is a note that says to replace service with copper if poly pipe is existing and if copper pipe is existing service to remain., how are we supposed to know which services are poly pipe? How are we to assume or account for these materials?”*

Answer: The Contractor’s attention is directed to Addendum No. 1, Item No. 1.21.

Item No. 1 –

Specification 00800, Section 50.0, Specification 02200:

1.2.B – Frequency of Acceptance Testing – Section shall be **REPLACED** with the following:

“B. Frequency of Quality Assurance Testing

The ENGINEER at the discretion of the OWNER may perform quality assurance testing for compaction. Test frequencies will be established at the discretion of the ENGINEER and OWNER. In the event of a failure of a quality assurance test, the non-complying materials will be removed and replaced or reworked by the CONTRACTOR. Quality Control tests shall be performed and verify an acceptable condition prior to quality assurance re-tests by the ENGINEER.”

1.3.A – Quality Control Testing – Section shall be **REPLACED** with the following:

“A. Quality Control Testing

The CONTRACTOR is required to provide a reasonable level of quality control testing to ensure that materials incorporated into the work and soils compaction methods achieve a product that complies with the specifications. The CONTRACTOR shall retain the services of a qualified laboratory to provide quality control testing. The following items describe the minimum number of quality control tests required by the CONTRACTORS Laboratory.

1. Maximum Dry Density and Optimum Moisture Content, ASTM D1557.
 - a. One test for each different class or type of material shall be performed prior to any earthwork operations.
 - b. Additional tests shall be performed when previous tests are suspect, or if changes in the material are detected.

2. Density of Soil In-Place by the Sand Cone or by Nuclear Methods, ASTM D1556 or D2922.
 - a. Perform a minimum of one test per lift per 5,000 square yards per each type of material.
 - b. Perform additional tests as required to verify proper compaction has been achieved. "

1.3.B – Materials Test Reports – The following shall be **ADDED**:

"Compaction test reports shall be submitted to the ENGINEER within two (2) business days of completion of a given test."

Item No. 2 –

Specification 00800, Section 50.0, Specification 02300:

1.2.B - Frequency of Acceptance Testing – Section shall be **REPLACED** with the following:

"B. Frequency of Quality Assurance Testing

1. The ENGINEER at the discretion of the OWNER may perform quality assurance testing for compaction, gradation and PI of bedding sand and for compaction, gradation and PI of select backfill. Test frequencies will be established at the discretion of the ENGINEER and OWNER. In the event of a failure of a quality assurance test, the non-complying materials shall be removed and replaced or reworked by the CONTRACTOR. Quality Control tests shall then be performed and verify an acceptable condition prior to quality assurance re-tests by the ENGINEER."

1.3.A – Material Test Reports – Section shall be **REPLACED** with the following:

"A. Quality Control Testing

The CONTRACTOR is required to provide a reasonable level of quality control testing to ensure that materials incorporated into the work and soils compaction methods achieve a product that complies with the specification. In addition, the CONTRACTOR shall retain the services of a qualified laboratory to provide quality control testing. The following items describe the minimum number of quality control tests required by the CONTRACTORS laboratory.

1. **Maximum Dry Density and Optimum Moisture Content, ASTM D1557.**
 - a. One test for each different class or type of material shall be performed prior to beginning construction.
 - b. Additional tests shall be performed when previous tests are suspect or if changes in the material are detected as determined by the ENGINEER.

2. **Density of In-Place Soil by the Sand Cone or by Nuclear Methods, ASTM D1556 or D2922.**
 - a. Perform a minimum of one test per foot of depth per 650 linear feet of trench for Select Backfill. The tests shall be evenly distributed throughout the depth of Select Backfill materials in the trench. If insufficient test results are presented representing a given depth (i.e. inadequate number of tests at lower depths in the trench) the CONTRACTOR shall pothole the completed backfill to acquire additional test results such that specified frequencies and depth distributions are achieved.
 - b. Perform a minimum of one test per 650 linear feet of trench for Bedding Sand
 - c. Perform additional tests as required to verify proper compaction has been achieved.
3. **Sieve Analysis of Aggregate, ASTM C136**
 - a. One test per 1,000 cy of Bedding Sand Material incorporated into the work.
 - b. One test per 5,000 cy of Select Backfill Material incorporated into the work.
4. **Plasticity Index of Soils, ASTM D 4318**
 - a. One test per 1000 cy of Bedding Sand material incorporated into the work.
 - b. One test per 5000 cy of Select Backfill material incorporated into the work.
5. **Testing Tolerances**
 - a. **Percent Relative Compaction**

Not less than as specified on plans or in these specifications.
 - b. **In-Place Moisture Content**

± 2% of optimum moisture, and as required to achieve maximum relative density.
 - c. **Soft or Yielding Surfaces**

Regardless of percent relative compaction obtained by test, areas, which are soft and yield under the load of construction equipment, are to be removed and replaced at no additional cost."

2.1.B – Bedding – Section shall be **REPLACED** with the following:

"Bedding for all water pipelines and cast-in-place concrete foundations shall be aggregate base.

1. Aggregate Base

Crushed aggregate or processed natural material, clean, hard, sound and free of any detrimental quantity of soft, friable elongated or laminated pieces, organic matter or other deleterious substances. Properties of which shall meet the following requirement:

- a. Grading, ASTM C136 and ASTM C117.

Sieve Size	Percent by Weight Passing
1 1/8"	100
No. 4	38-65
No. 8	25-60
No. 3	10-40
No. 200	3-12

- b. Sieve Size Percent by Percentage of Wear, ASTM C131, and maximum percentage of wear of 40 after 500 revolutions.
- c. Plasticity Index and Liquid Limit, ASTM D4318, maximum plasticity index of 5, maximum liquid limit of 25 percent."

2.1.D – Granular Backfill – Section shall be **REPLACED** with the following:

"Native excavated or approved granular material, free draining and free of unsuitable materials defined herein. Granular backfill shall be sized appropriately as described in the standard details in the project documents. Granular backfill shall be non-plastic, well graded and meet the following gradation:

Size in Plans	Sieve Size	Percent by Weight Passing
2" Minus	1 1/2"	100
	No. 200	0-15
4" Minus	3"	90-100
	2"	60-90
	1"	36-65
	No. 4	16-36
	No. 40	10-21
	No. 200	6-15

"

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