

**ADDENDUM NO. 1
TO THE BID DOCUMENTS**

Project: Waddell Way Road and Water Main Improvements 2016
Addendum Issue Date: February 18, 2016
Bid Date: March 3, 2016 @ 2:00 PM (Thursday)
Previous Addenda Issued: None
Issued By: Carey Meyer
City Engineer
City of Homer
Homer, AK 99603
cmeyer@ci.homer.ak.us

Bidders must acknowledge receipt of this addendum prior to the date set for bid opening by one of the following methods:

- (1) By acknowledging receipt of this addendum in the bid submitted (**use addendum acknowledgement form provided in bid documents**).
- (2) By facsimile (fax) or email which will need to include a reference to the project and each of the addendum numbers.

The bid documents require acknowledgement individually of all addenda to the drawings and/or specifications. This is a mandatory requirement and any bid received without acknowledgment of receipt of addenda may cause the bid to be considered non-responsive.

Attached is the sign-in sheet of attendees to the mandatory pre-bid conference.

GENERAL ITEMS AND BID SCHEDULE:

ITEM 1 – Can we use the gravel pad that exists on the City owned lot (Lot 3-A-1 as shown on Sheet F1 for laydown and material storage?

Answer: Yes, as long as it is returned to the same condition as it was at start of project.

ITEM 2 – What does the word “incidental” mean in the context of “cost of this work is incidental to other work”?

Answer: When the cost of work is incidental to other work it means that the cost of the work shall be paid for under the other work item (and should be bid as such).

ITEM 3 – Are there any City noise ordinances that must be complied with?

Answer: No person may operate a motor vehicle (including heavy equipment) with a noise level in excess of 85 dBA at a distance of 50 feet (in a residential area after 8:00 p.m. or before 8:00 a.m. with a noise level in excess of 75 dBA at a distance of 50 feet). The City has no other regulations pertaining specifically to noise generated from construction projects.

ITEM 4 – What is Bid Item A-38 “Trench and Backfill (2’x 3”)” for?

Answer: This bid item is associated with the trenching and backfilling of underground electrical conduit.

ELECTRICAL ITEMS:

ITEM 5 – I don’t see any 4” electrical conduit shown on the plans (as called for under Bid Item A-45).

Answer: See Sheet H2, conduit note 2.

ITEM 6 – Regarding Bid Item A-49, 3 Conductor #8AWG XHHW; XHHW normally designates a single conductor wire. Suggest revising bid item description to clarify 3 conductor cord or triple estimated quantity.

Answer: Please bid this item as a 3 conductor wire as specified in 8010.3 Power Conductors and Cables (see attached cut sheet example).

ITEM 7 – Will the City consider eliminating electrical conduit and use direct bury wiring?

Answer: No.

ITEM 8 – The Technical Specifications, Section 8005.1 (page TS-32) states that “All steel and iron products which are incorporated into poles, including connection and anchor bolts, shall be manufactured in the United States.” Is this a project requirement?

Answer: Delete this sentence. Buy American provisions are not a condition of this contract.

ITEM 9 – In the Technical Specifications, Section 8005.1 (page TS-32) the sixth paragraph states “Non-Destructive testing may be required by the Engineer on all newly manufactured poles for this project, prior to galvanization. A licensed technician shall....” Is this a project requirement?

Answer: Delete this paragraph. The cost of any NDT required by the Engineer will the responsibility of the City.

ITEM 10 – The Technical Specifications, Section 8005.1 (page TS-32) states that “Poles shall not be relocated or reused unless Contractor obtains written approval of the Engineer or designated representative.” The project plan requires relocation and reusing an existing pole, arm and fixture. Does the plan set constitute written permission to do what is specified?

Answer: Yes.

ITEM 11 – The “Driven Steel Pole Light Pole Foundation” detail on Sheet H10 states “Contractor shall provide a 15’ embedment or as indicated in drawing for piling installed in granular soil ... For other conditions, provide a foundation investigation to determine embedment depth”. What does this mean?

Answer: Delete these sentences from the detail. The soils within the project area are not granular. Provide a 20’ street light pole foundation pile embedment depth for all street lights.

ITEM 12 – Do you have any more specific specifications regarding Schedule 40 HDPE conduit (i.e. – DDR classifications)?

Answer: Schedule 40 or SDR 13.5 would be acceptable.

ITEM 13 – The HDPE/PVC Transition Detail on Sheet H12 provides for both HDPE and PVC conduit, yet the bid item referenced HDPE only. Is PVC conduit allowed?

Answer: PVC electrical conduit is not allowed. Except where rigid metal conduit is specified, all underground electrical conduit shall be HDPE.

ITEM 14 – Specifications allow for several pole shapes (round, multisided, etc.). Is there a preference?

Answer: Poles shall be round and tapered as shown on Sheet H10.

WATER MAIN ITEMS:

ITEM 15 – Sheet U1, notes 4 and 5 describes HDPE pipe joint testing requirements that we have not seen before.

Answer: Note 4 is hereby deleted. Delete the second and third sentences in Note 5.

ITEM 16 – Is the valve shown (Station 100+04) need to be 4 feet from the tapping tee?

Answer: No, this valve will be bolted directly to the tapping tee.

ITEM 17 – The 10” water main we are connecting to in Lake Street; is it ductile or HDPE?

Answer: The water main in Lake Street is cast iron.

ITEM 18 – On sheet U2, Note 2 seems to require that trench backfill meet Type II classification. Is this true?

Answer: All backfill (other than the road structural section) shall be the non-organic native material. Note 2 speaks to foundation material (generally defined as material used below the pipe when in the opinion of the Engineer soils cannot support the pipe adequately and additional excavation below pipe is needed). If additional excavation below the bottom of the pipe is required by the Engineer,

the cost of excavation and backfill will be reimbursed on a time and material basis. Any backfill material installed below the pipe will be required to meet Type II classification.

ITEM 19 – If water line trench dewatering is required, what restrictions will the City of Homer place on groundwater disposal?

Answer:

ITEM 20 – Has the City changed its procedures for chlorinating water main?

Answer: The City has not changed its procedures. Below is a summary of the City's chlorination procedures:

Chlorine shall be used for disinfection. Chlorine shall be applied by one (1) of the following methods:

1. Liquid chlorine gas-water mixture
2. Calcium hypochlorite and water mixture

Calcium hypochlorite shall be comparable to commercial products known as HTH, Perchlolen or Machochlor.

The chlorinating agent shall be applied at the beginning of the section adjacent to the feeder connection, insuring treatment of the entire line. Water shall be fed slowly into the new line with chlorine applied in amounts to produce a dosage of no least than fifty parts per million (50 ppm). Application of the chlorine solution shall continue until the required dosage is evident at all extremities of the newly laid line.

During the chlorination process, all intermediate valves and accessories shall be operated. Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water. Hydrostatic testing of a water line containing the chlorine mixture will not be allowed. A residual of not less than ten parts per million (10 ppm) chlorine shall be produced in all parts of the water main and retained for a minimum period of twenty-four (24) hours. After which, this residual shall be flushed from the line at its extremities until the replacement water tests are equal chemically and bacteriologically to those of the permanent source of supply. In no instance shall a water main be chlorinated before "open bore" flushing.

City water distribution personnel will provide oversight of the chlorination process, take samples and provide testing of samples at no cost to the Contractor

ROAD CONSTRUCTION ITEMS:

ITEM 21 – Will the City consider changing the units for imported gravel from tons to cubic yards?

Answer: No. The Contractor may provide weigh tickets for all imported gravel or a survey (completed by a licensed professional surveyor) documenting the volume of road gravel imported and convert to tons (using Proctors on in-place gravel) with methods approved by the Engineer prior to gravel import.

ITEM 22 – On Sheet F-2 (near the Lake Street intersection), how many culverts are required to be removed?

Answer: There are two culverts shown to be removed. One is to be removed as part of the installation of pipe P2-1.

End Addendum #1

Mandatory Pre-Bid Conference Sign-In Sheet
Waddell Way Road and Water Improvements
 City of Homer, Alaska
 February 17, 2016

Attendee Name	Company Represented	
1 Dane Dahlgren	Southcentra Const Inc.	907-953-968
2 Chad Duguid	Alaskaearthworks LLC	907 414-5141
3 Sam Meredith	Mass Excavation inc	907-830-2991
4 Steve Judge	Cook Inlet Lighting	907 398-1937
5 Mike Vrant	Chumley's Inc.	907-335-4668
6 Mike Arno	Arno Const Inc	235 3643
7 Tom Clark	Clark Management	907-299-2422
8 Todd VanLiere	BUILD ALASKA LLC	397-7484
9 Buck Jans	East Road Services Inc.	235-6574
10 Todd Bethard	GMC CONTRACTING INC	561 4733
11 Larry Herndon	Herndon Const.	235-8741
12 Helene Herndon	Herndon Const	235-8741
13 Bill Smith	Puffia Electric	288-3991
14 Suzette Oberg	Peninsula Const. Inc.	283-4581 fax 283-6432
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2C010U0803005LH



3C 8 /7B NS XHHW-2 PVC 600V Tray Cable (Direct Burial Rated) ←

Specification Non-Rated, UL 1277 Reference

Electrical Characteristics

Voltage Class (volts):	600	
Max. DC Conductor Res. (ohms/Mft @25C):	0.683	(2.24 ohms/km)
Capacitance (pF / ft):	14.5	(47.7 nF / mt)
Characteristic Impedance (Ohms):	106	

Construction Specifications

Type of Conductor Stranding:	8AWG 7W BARE COPPER (Concentric)	
Diameter of Conductor (in):	0.146	(3.71 mm)
Conductor Insulation Type:	XHHW-2 FR XLPE	
Insulation Thickness (in):	0.045	(1.14 mm)
Conductor Identification:	Black, White, Red Printed "SHAWFLEX 8 AWG (UL) XHHW-2"	

Overall Separator Type: Clear Mylar Tape (1mil thick)

Jacket Type & Colour: HMW LLDPE, BLACK

Average Outer Jacket Thickness (in):	0.060	(1.52 mm)
Nominal Overall Diameter of Cable (in):	0.652	(16.56 mm)
Jacket Identification:	SHAWFLEX 3C 8AWG 600V XHHW-2 90C WET/DRY HWM LLDPE JACKET DIRECT BURIAL 2C010U0803005LH (mo#) (month year) (sequential footage marking every 2 feet)	

Physical Characteristics

Cable Weight (lbs/Mft):	263	(391 kg/km)
Max. Pulling Tension (Pulling Eye) (lbs):	397	(180 kg)
Max. Pulling Tension (Cable Grip) (lbs):	111	(50 kg)
Min. Bending Radius: Permanent (in):	3.9	(99 mm)
Min. Bending Radius: Pull (in):	5.9	(149 mm)
Max. Conductor Temperature (C):	90C WET/DRY	
Recommended Min. Install Temp. (C):	-10C	
Copper Content (lbs/Mft):	156.1	(232 kg/km)
Flame Propagation Test Rating:		

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