

ADDENDUM NO. 2  
To the Contract Documents

City of Walla Walla, Washington  
Alder Street IRRP Project  
PWE No. IRRP 013  
February 10, 2016

Bid Date: February 11, 2016, 11:00 a.m.



The following additions, deletions, and modifications shall be made to the Contract Documents.

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I. CONTRACT DOCUMENTS

A. SPECIAL PROVISIONS, DIVISION 8 MISCELLANEOUS CONSTRUCTION, 8-20 ILLUMINATION, TRAFFIC SIGNAL SYSTEMS, INTELLIGENT TRANSPORTATION SYSTEMS, AND ELECTRICAL

1. Section 8-20 is *clarified* as follows:

All pushbuttons on the project (Traffic Signal and RRFB) shall be APS (Accessible Pedestrian Signal) push buttons.

2. 8-20.3(4), page SP-90, Lines 41 and 42

This sentence is *clarified* as follows:

Signal foundations may be drilled shafts or excavated. Controlled Density Fill or compacted borrow per Section 2-09.3(1)E shall be utilized to backfill between the signal foundation formwork and native ground in locations where signal foundations are excavated and space exists between the formwork and native soil.

3. 8-20.3(5)E1, page SP-97, Lines 22 through 27

*Delete* paragraph 5 in its entirety and *replace* with the following:

"Trenches located within paved roadway areas shall be backfilled with three inches of sand over the conduit, followed by crushed surfacing top course or base course compacted to 95 percent density up to the bottom of the typical roadway section. This work shall be considered incidental to the conduit installation."

4. 8-20.3(14)F, page SP-112, Line 9

*Delete* the sentence that reads:

"Manufacturer must be ISO 9001 certified."

5. 8-20.5, page SP-112, Lines 27 through 38

**Add** the following sentence at the end of the third paragraph:

"The lump sum contract price for "**East Alder Street/South Clinton Street Traffic Signal System**" shall also include the video detection system including cameras, cables, wiring, and control equipment."

6. 9-29.10(3), page SP-85, Lines 29 through 30

**Delete** the last sentence of the paragraph.

7. **Add** the following new specification Section 9-29.18(3) at the end of Section 8-20:

**"Video Detection System**

Add Section 9-29.18(3) as follows:

This section describes the physical and functional properties of a video vehicle detection system (VVDS). This system shall be capable of monitoring all vehicles on the roadway for a minimum of 330 feet from the stop bar, providing all directions of vehicle detection at the intersection.

**(A) Approved Equipment-** The following equipment package has been preapproved for use on this project:

- Iteris VantageNext Video Detection System with video viewer Part #Next-CCU-PAK
- Iteris Vantage Next Video Processor(s) (4 processors required) Part # Next-VP-PAK
- Iteris WDR Video Detection Camera(s) (4 cameras required) Part # NEXT-CAM-PAK
- Video Extension Module(s) Vantage Edge 2 Two-channel (2 modules Part # EDGE2EM2-PAK
- Astrobracket Camera Mount(s) Part # AB-0175-74-84-PNC
- All associated equipment and cables as required by manufacturer

**(B) System Hardware—**The following are the minimum standards for the VVDS.

- The system components shall be modular by design and install in a standard 2070 style input file. All equipment shall be completely compatible with Seimans Sepac software.
- The system shall be designed to operate reliably in the adverse environment of roadside cabinets and shall meet or exceed all NEMA TS-1 and TS-2, as well as Type 170/2070 environmental specifications.
- Ambient operating temperature shall be from -35° C to +75° C at 0 to 95 percent relative humidity non-condensing.

- The system shall be powered by 95 -135 VAC, 60 Hertz, single phase and draw less than 0.4 Amperes, or by 190-270 VAC, 50 Hertz, single phase and draw less than 0.2 Amperes.
- The rack mounted model (2070 input file) shall utilize 24VDC from the cabinet power supply.
- Surge ratings shall be set forth in the NEMA TS-1 and TS-2, Specifications.
- Serial communications shall be through an RS-232 or RS-485 serial port. These ports can be used for communications to a modem, laptop, traffic controller, etc.
- The system shall have one video input (RS-170 NTCS or CCIR composite video) per VIP board and one spare video input.

**(C) Vehicle Detection Zone**—The detection zone placement shall be simple and flexible.

- The detection zones shall be defined using a simple keyboard and monitor, or by using a laptop PC with appropriate software.
- Each detection zone shall consist of different lines of detection that are generated automatically in the defined zone.
- When a vehicle is within a detection zone and approaching from the proper direction, the detection zone will change color between white, gray, and black.
- Each detection zone shall have an auto adaptive sensitivity system. No adjustments are needed.
- Each detection zone shall be able to detect the presence of vehicles during day and night periods. Based on proper camera position and sensitivity, the minimum accuracy during normal conditions shall be 98 percent and 96 percent during adverse (fog, rain, snow, sleet, etc.) conditions.

**(D) Installation and Training**—A certified representative of the video detection and transmission system supplier shall be available to advise the customer concerning proper camera selection and site installation. Upon request, the representative shall be available to supervise the installation of the camera equipment.

- The certified representative shall do the initial set-up for the detection zones and testing of the system.
- The certified representative shall be responsible for the training of contractor and a minimum of 8 hour of formal training on the operation and maintenance for agency personnel. All agency training
- The video detection supplier shall provide all documentation necessary to maintain and operate the system.

(I) **Warranty**—Furnish a Manufacturer's Warranty for video detection system according to WSDOT Specification 1-05.10.

The VVDS equipment, software and materials supplied shall be the latest model(s) available at the time of installation of the VVDS at the intersection(s).

The VVDS manufacturer(s) shall warranty all equipment for a minimum of five (5) years from the date of installation and acceptance by the City. Ongoing software support by the supplier shall include software updates of the processor sensor, modular cabinet interface unit, and supervisor computer applications. These updates shall be provided free of charge during the warranty period. The supplier shall maintain a program for technical support and software updates following expiration of the warranty period. This program shall be available to the contracting agency in the form of a separate agreement for continuing support. The VVDS manufacturer(s) shall supply all updates to the software for the VVDS for a period of five (5) years from the date of installation and acceptance by the City.

One (1) set of all necessary cables and connector between the city's laptop computer and VVDS shall be provided. All necessary software licensing shall be provided to the City."

- END OF ADDENDUM NO. 2 -

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Attachments:

- Current Planholder's List