

CUY-90-14.90

PID 77332/85531

APPENDIX GN-02

Bridge Construction Webcam Monitoring Requirements (Contract Document)

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Revision Date: March 4, 2010

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GENERAL REQUIREMENTS

The intent of the webcam monitoring system is to document construction progress and to provide visual access to key points of the construction site from remote locations.

The DBT shall furnish and install four (4) cameras at four (4) separate locations on 40-foot Class C wood poles. The cameras shall be located at locations on the project site which will provide visual access to the major construction activities on the site. At a minimum, two (2) of the cameras shall be located to show current construction activities taking place on the I-90 Viaduct structure, one at each end of the valley. The DBT shall relocate the cameras at ODOT's request and at no additional cost to the Department.

Webcam installation will be fully operational no later than 120 days from notice to proceed. The webcam monitoring system shall remain operational through the end of construction, unless notified otherwise by the Department.

DBT work will also include but is not limited to:

- A. Installing the cameras and cables connecting cameras into the cabinet.
- B. Mounting and pointing the wireless bridges on poles in the appropriate direction of the corresponding wireless bridges used to connect the site to the Department's network. The cables for the wireless bridge shall be connected to the camera and run into the cabinet.
- C. Installing and/or relocating throughout the duration of the project Class C Wood Poles.
- D. Providing all equipment, coordination, and payment for the power feed for this system for the initial installation and any monthly utility charges.
- E. Removal and disposal of all materials at the conclusion of the project.

The Department's work will include:

- A. Provide the wireless bridges for contractor installation
- B. Configuring the network equipment
- C. Installing the video server
- D. Setting the site up for the live video feeds and video archiving

CAMERA SPECIFICATIONS

CCTV Specification

1.0 Fixed Camera

1/3-Inch, day/night, NTSC, CCD compact camera

530 TVL B-W/480 TVL color

Day/night automatic control

1/3-inch format CCD

Digital signal processing

Auto iris

Auto white balance, automatic gain control, electronic shutter control, backlight compensation

24VAC/12VAC

CS lens mount

Pelco D protocol

2.0 Lens

Variable focal length 3.8mm – 8.0mm

Auto iris F1.4 – F176

DC drive drive

3.0 Enclosure

Environmental enclosure

120VAC power for heater and blower

24VAC power for camera

Heater

Blower

Minimum 18-inch length

Minimum 7-inch width

Die-cast/extruded aluminum construction

Electrical connectors for power input, lens, camera, heater, and blower

4.0 Cabinet

NEMA 4X

30" length x 24" width x 18" height

Corbin lock keyed #2

12-point terminal block

Duplex 120VAC receptacle

20 amp circuit breaker with surge protector

5.0 Mount

Medium duty wall mount

Manually adjustable swivel head

Pan adjustment 360 degrees

Tilt adjustment 75 degrees

Cast aluminum

Include all mounting hardware such as bolts, nuts, and washers

Pole mount adapter

Minimum pole diameter 3"

Stainless steel straps minimum 28" in length

6.0 Camera Cable

Coaxial cable

Cable length minimum 50 feet

BNC connector on each end after installation