

SECTION 16782
SURVEILLANCE SYSTEM

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Video Cameras.
- B. Video Equipment.
- C. Fiber Optic Transmission of Video Signal.
- D. Camera Poles.

1.2 RELATED SECTIONS

- A. Section 16111 – Conduit.
- B. Section 16530 – Control Lighting.
- C. Section 16123 – Building Wire and Cable.

1.3 SUBMITTALS

- A. Submit product data, including warranty information, under provisions of Section 01300 - Submittals.

1.4 PROJECT RECORD DOCUMENTS

- A. Submit record documents under provisions of Section 01700 – Contract Closeout.
- B. Accurately record location of conduits and cables.

2. PART 2 PRODUCTS

2.1 Materials: Check for updated products 60 days prior to installation with manufacturer's representative and Engineer. Check with Engineer on updating materials to latest models.

- A. Cameras:
 - 1. Manufacturer: Panasonic WV-CW864.
- B. Network interface/Digital hard disk recorder:
 - 1. Manufacturer: Panasonic WJ HD200/120.
- C. Camera control interface:
 - 1. Manufacturer: Panasonic WJMP 204.
- D. Single Fiber Bi-directional Transceiver with Reverse Panasonic Proteus Camera and PTZ control:
 - 1. Manufacturer: American Fibertek, Inc. M1600P Series Multimode.

- E. Camera poles
 - 1. Square steel tubing: 4 inches x 1/8 inch.
 - 2. Steel and welding joints shall be protected from rust by galvanizing or an appropriate paint.

3. PART 3 EXECUTION

3.1 EXAMINATION

- A. Contractor to verify surfaces are ready to receive Work.
- B. Verify field measurements are shown on plans or indicated by manufacturer.
- C. Beginning of installation means acceptance of existing conditions.

3.2 INSTALLATION

- A. Camera equipment must be installed by manufacturer's authorized dealer.
- B. Construct camera poles per plans.
- C. Install poles at designated locations per plans.
- D. Install cameras on poles.
- E. Install fiber optic transceivers and connect to fiber cable to connect cameras in Detention Area A Structure to controller in Detention Area B Structure and Cameras in Detention Area E Inlet Control Structure to controller in Detention Area E Outlet Control Structure as indicated on plans, per manufacturer's instructions.
- F. Connect wiring including power, video and control per manufacturers instructions. All wiring shall be inside pole frame. All wires shall be protected when entering or exiting pole frame.
- G. Connect camera alarm points: high level output, intruder, loss of power, generator fault from PLC in accordance with plans. Coordinate with Owner and Engineer for camera aim locations.

3.3 TESTING

- A. Complete testing to confirm cameras are able to see inflow and outflow parts of structure both in daylight and at night in various weather conditions.
- B. Confirm network connections and remote viewing and control if functioning.
- C. With one-week notice, demonstrate working devices for Owner and Engineer.

3.4 TRAINING

- A. Schedule and provide complete training on all aspects of camera system to Owner's personnel. Utilize manufacturer's personnel in this training for a minimum of 8 hours in 2 trips.
- B. Provide a walking tour of each product and briefly describe function, operation, and maintenance of each component.

END OF SECTION