

# Special Specification 6042

## Video Imaging Vehicle Detection System Camera Assembly and Communication Cable



### 1. DESCRIPTION

Install and make fully operational the Department supplied Vehicle Imaging Video Detection System (VIVDS) that monitors vehicles on a roadway via processing of video images and provides detector outputs to a traffic controller or similar device at a new traffic signal locations.

The VIVDS configuration for a single intersection will consist of variable focal length cameras, VIVDS card rack processor system, including a video monitor, connectors, and camera mounting hardware.

The system is composed of these principal items: the cameras, the field communications link between the camera and the VIVDS processor unit, mounting hardware, along with cable, field set up devices, detection processor, connectors, and surge suppression panel for AV & Video.

### 2. MATERIALS

Unless otherwise noted on the plans, materials are to be furnished to the contractor at no charge. Pick up materials at the times and locations shown on plans.

Designate in writing, persons authorized to pick up material. Assume responsibility for all materials furnished by the Department. Use materials furnished by the Department for this Contract only.

Upon completion of the work and prior to final payment, return any unused or removed material deemed salvageable by the Engineer to the Department.

### 3. EQUIPMENT AND LABOR

Furnish all equipment and labor necessary to install the materials. This will include but not limited to an aerial device capable of reaching VIVDS equipment, tools, and incidentals necessary to complete the work. If at any time equipment is determined defective to the point it may affect the quality of work, that equipment will be returned to the Department immediately to be repaired or replaced.

### 4. SCOPE OF WORK

Installation of the proposed project will be as described in the General Notes. The Item(s) shall consist of the following as directed.

- 4.1. **VIVDS Camera Assembly.** Connect the VIVDS camera to the controller, focus and set up the video detection zones as shown on the plans and perform any other work necessary to get the system fully operational. VIVDS camera assembly includes the camera, mounting hardware, and other appurtenances.
- 4.2. **VIVDS Communication Cable.** Install the VIVDS cable, in a continuous run, from the camera to the traffic signal controller. Form a 2 turn loop formed at camera termination, secure loop using cable ties suitable for outdoor use, install connectors, and terminate the camera. Leave 5 ft. coiled inside controller cabinet. Identify cable runs, on each end of the cable and at hand hole with a different color tape for each run.

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**5. MEASUREMENT**

The VIVDS camera assembly will be measured by each camera assembly installed. The VIVDS communication cable will be measured by the foot of cable installed.

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**6. PAYMENT**

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Install VIVDS Camera Assembly" and "Install VIVDS Communication Cable". This price is full compensation for installing or replacing required materials, equipment, tools, labor, and incidentals. Cable used inside controller cabinets and for coils in ground boxes, pole bases, and at camera termination will not be paid for directly but will be subsidiary to pertinent items.