

SECTION 16723
VIDEO SURVEILLANCE SYSTEM

PART 1 GENERAL

1.1 SECTION INCLUDES:

- A. Main cabinet.
- B. Distribution cabinet.
- C. Conduit and boxes.
- D. Power wiring.

1.2 SYSTEM DESCRIPTION

- A. Video surveillance system shall include the furnishing and installation of main and distribution cabinets, conduit system and power feeds.

1.3 SUBMITTALS

- A. Submit under the provisions of Section 01300.
- B. Shop Drawings: Indicate layout, raceway diagrams, and equipment dimensions.
- C. Product Data: Provide data sheets for each item of equipment, depicting equipment capacity.

1.4 RECORD DRAWINGS

- A. Submit under the provisions of Section 01700.
- B. Accurately indicate actual locations of cabinets, boxes, and conduit runs.

PART 2 PRODUCTS

2.1 MAIN CABINET

- A. Steel construction #14 gauge, 36" x 36" x 6" cabinet with hinged, lockable cover, 1/2" thick plywood backboard, painted light gray and shall be surface mounted.

location has a structure of fixed ceiling material, then flush mount the box with a double gang mud ring & cover.

- D. Provide & install 4-11/16" x 4-11/16" x 2 " flush mounted mounting boxes with double gang mud ring and weatherproof covers; mounted with the opening vertical, at all designated exterior locations fed from additional 4-11/16" x 4-11/16" x 2 " boxes at the interior feed penetrations through the exterior walls.
- E. Provide & install a 1" conduit from the Main V.S.S. cabinet to the Main "head-end" Security cabinet.
- F. If the design requires that the main terminal cabinet is to be flush-mounted, then provide a 2" conduit from the cabinet to a 6" x 6" flush-mounted box with cover at floor level.
- G. Provide and install a 2" conduit from the Main Video Surveillance terminal cabinet to a brooks box located at the designated entry gates. Exact location to be determined at plan review.
- H. Provide and install an additional 4-11/16" x 4-11/16" x 2 " box above suspended ceiling directly above each wall video-mounting box. Locate j-box no higher than 36" above the ceiling in the same room as the wall mounted box.

2.4 POWER FEED

- A. Provide & install a dedicated 120volt duplex outlet fed from the optional branch of the generator power source, adjacent to the normal power receptacle.
- B. Provide and install a dedicated 120-volt duplex fed from the optional branch of the generator power source, adjacent the lower portion of main terminal cabinet and the entry terminal cabinet of each building.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install system in accordance with NECA "Standard of Installation" and Section 16111.
- B. Obtain a detail book from the Florida Tech Security Department for system specifics.
- C. Permanently label all conduits as to plan room number destination, at all terminal cabinets.
- D. Paint all Video surveillance system junction box covers gold.
- E. Install 1/2" (gold round indicators) of paper construction on ceiling tile grid work at all locations where video surveillance system boxes are located above the drop ceiling.
- F. Permanently label all the video surveillance system terminal cabinets, "video surveillance system".
- G. Install 200 lb strength pull string throughout the raceway system.
- H. Mount all junction boxes mounted above ceiling with the opening facing down, and provide a reasonable immediate access pathway. Note: (removal of a light fixture or other similar ceiling equipment) is not considered as a reasonable access pathway.
- I. Do not use the "Video Surveillance System Raceway" as part of any other raceway system.
- J. Provide and install 6 additional 4-11/16" x 4-11/16" x 2 " mounting boxes with flush single gang ring and single gang cover; with the opening mounting vertical with 3/4" conduit run to the nearest video terminal cabinet or junction box. (Allow 100' of conduit for each run) Mounting locations field