SECTION 13770
VIDEO SURVEILLANCE SYSTEM

PART 1   GENERAL

1.01 SUMMARY

A.   SECTION INCLUDES

1.   Camera

1.02 SYSTEM DESCRIPTION

A.   PERFORMANCE REQUIREMENTS

1.   The video signal from all of the cameras to the monitor(s) shall be of sufficient strength to produce a 1-volt peak-to-peak signal at the monitor(s).

1.03 WARRANTY

A.   Contractor warrants that all Work furnished (material and labor) under this Contract will be of good quality, free from faults and defects, and in conformance with the Project Drawings and Specifications.

B.   Contractor shall provide parts and labor guarantee on all Work. Unless otherwise specified herein, Contractor's guarantee on labor shall be for a period of one year from date of Acceptance. Contractor's guarantee on the camera shall be for a period of ten years from the date of Acceptance with On-line registration of the camera.

C.   Contractor's guarantee shall cover all costs associated with troubleshooting, repair, and replacement of defective Work, including costs of labor, transportation, lodging, materials, and equipment.

D.   Guarantee shall not cover any damage to material or equipment caused by accident, misuse, unauthorized modification or repair by [Client], or acts of god.

E.   Contractor shall promptly respond to [Client]'s requests for service during the guarantee period. Contractor shall provide repair service as soon as reasonably possible upon request from [Client], but in no case shall service response exceed 8 hours from time of request.

1.04 OWNER'S INSTRUCTIONS

A.   COORDINATION WITH MANUFACTURER

1.   Contractor shall perform Work in accordance with manufacturer's instructions. Do not omit any preparatory step or installation procedure unless specifically modified or exempted by Contract Documents.

2.   Contractor shall maintain one set of complete instructions at the job site during installation and until completion.

PART 2 PRODUCTS

2.01 GENERAL

A.   LIGHTNING PROTECTION

1.   The Contractor shall provide suitable lightning protection for all cameras.

2. All lightning protection equipment shall be UL listed.

2.02 SYSTEM SPECIFICATIONS

A. General

The Contractor shall furnish all material and labor for a complete and operative Video Surveillance System including documentation, programming, and training.

B. Products

1. Camera

   a. Imaging Device: 1/2" Interline Transfer CCD
   b. Video Output: VBS 1.0Vp-p 75Ω
   c. Number of Effective Picture Elements: 380,000 pixels 768 (H) x 494 (V) Lines
   d. White Balance: ATW1/ATW2/AWC/Manual, Selectable, Adjustable
   e. Backlight Compensation (BLC): Built in, On/Off/Spot Switchable
   f. Auto Electronic Shutter (AES): Built in, On/Off Switchable
   g. Electronic Shutter: Built in, Off, 1/100, 1/125, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000, Variable
   h. Horizontal Resolution: 540 lines color, 570 lines monochrome
   i. Day/Night Function: Built in, Auto/Remote/Manual Selectable
   j. Auto Iris Function: Video Iris/DC Iris Selectable
   k. Minimum Illumination:
       Color: F1.4 0.005 lux (50IRE), F1.2 0.0037 lux (50IRE)
       Monochrome: F1.2 0.00037 lux (25IRE), F1.4 0.0005 lux (25IRE)
   l. Flange Back Adjustment Mechanism: Built in
   m. Lens Mount: CS Mount (C-Mount adapter can be used)
   n. Camera Mount: 1/4"-20UNC (top and bottom)
   o. Ambient Operating Temperature: -10 ~ +50 deg.C
   p. S/N Ratio: 52dB/rms or better
   q. Power Supply: AC24V +/- 10% 60Hz/DC 12V (10.5 – 28 volts)
   r. TV System: 2:1 Interlace, NTSC system
   s. Sync System: Internal: Crystal lock or Line lock, External: GENLOCK
   t. Power Consumption: 24VAC = 5.3W or less, 12VDCV = 5.3W or less
   u. Monitor Output Selections: Built in for CRT or LCD
   v. Detail Correction: Built in, Level Adjustable
   w. Automatic Gain Control (AGC): On (AGC, Hyper AGC)/Off: (Low, Mid, High)
   x. Privacy Masking Function: Built in
   y. Camera ID: Built in 1 line, 16 characters
   z. Input/Output Connectors:Video Output: BNC, GENLOCK Input: BNC, Lens Iris Control: 4Pin, 24VAC/12VDC: 2 Pin, RS-485 Input/Output: 5Pin terminal

2. The Camera shall be an Ikegami model ICD-879

PART 3   EXECUTION (not used)

END OF SECTION