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ADDENDUM NO. 1

Date: 7/24/23

Issued by: Sacramento City Unified School District

To all bidders for furnishing all labor and materials necessary and required for constructing:

Project: Project #: 0510-433  
CKM CCTV Cameras

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents of Project No. 0510-433, dated 6/24/2023. Acknowledge all addenda in the space provided on the Bid Form; failure to do so will result in disqualification of the bidder.

Part A - Bidding and Contract Requirements

AD1.01 BIDDER QUESTIONS:

1. Question: Please clarify when working hours can take place

Answer: During the school session, working hours will be after-school curriculum. Contractor is allowed to work weekends, not at extra cost to the project. During school breaks, Contractor is allowed to work regular hours by the approval of the District.

2. Question: All exposed conduit observed on the job walk was EMT. Please confirm the conduit type requirements for all areas.

Answer: The direction from the district is for all exterior exposed conduit to be GRC.

3. Question: Is DVBE required on this project?

Answer: No but is encouraged.

4. Question: Is there an engineer's estimate?

Answer: \$200,000.

5. Question: Is this project subject to Buy American Certification?

Answer: No.

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6. Question: Is this project subject to the Project Labor Agreement?

Answer: No.

7. Question: The spec/drawings have a fisheye camera not a multi-view. Will this be amended and what part number for multi-view is needed?

Answer: This has been amended to i-PRO WV-S8543LG

8. The drawings only reference one IDF getting a network switch. Are we to assume there are available ports in the patch panel or switch for the new cameras being installed?

Answer: The drawings reference four IDFs getting new contractor furnished Antaira network switches (T900). An existing Antaira network switch is present at other IDF locations providing sufficient available switch ports.

9. Camera #132 says it's a single sensor on the camera list but the sheet notes state replace with corner mount multi-view. Please clarify what is needed.

Answer: Camera #132 shall be an Exterior Rated IP Camera, Multi-Directional (3x4MP Sensors), i-PRO WV-S8543LG

10. Will there be space made available in each IDF for additional networking equipment?

Answer: Refer to sheet T900 for scope of work needed at each IDF

11. The drawings do not have any mention of patch panel, connectors, switch, etc. What will the new cameras be connecting to on the network?

Answer: Revised spec sections 27 10 00 and 28 20 00 shall be provided detailing requirements for all structured cabling. All cameras connect to Antaira network switches.

12. What are liquidated damages? Contract documents are blank.

Answer: \$500 per calendar day not complete.

Part B - Specifications:

13. Specification section 27 10 00 Structured Cabling, attached:  
a. Revised section.

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14. Specification section 28 20 00 Video Surveillance, attached:
  - a. Revised section

Part C - DRAWINGS

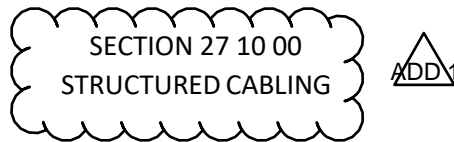
15. Sheet T000, CCTV Symbols and Notes, attached,
  - a. Revise sheet as shown.
16. Sheet T100, CCTV Site Plan, attached,
  - a. Revise sheet as shown.
17. Sheet T800, CCTV One-Line and Details, attached,
  - a. Revise Detail 1 Camera IP/ Descriptions as shown.
18. Sheet T900, CCTV Picture Details, attached,
  - a. Revise details 1 (deleted), 3, 4, 6 and 8 as shown.

List of Attachments:

AD1.02	Specification Section 27 10 00 (12 pages)
AD1.03	Specification Section 28 20 00 (7 pages)
AD1.04	Drawing Sheet T000, CCTV Symbols and Notes (1 Sheet)
AD1.05	Drawing Sheet T100, CCTV Site Plan (1 Sheet)
AD1.06	Drawing Sheet T800, CCTV One-Line and Details (1 Sheet)
AD1.07	Drawing Sheet T900, CCTV Picture Details (1 Sheet)

END OF ADDENDUM NO.1

Acknowledgement of this Addendum will be required at time of bid.



## PART 1 – GENERAL

### 1.01 SUMMARY

- A. This section specifies equipment, accessories, materials, installation, configuration, and testing requirements for a complete and operable Structured Cabling communications system. The system shall provide highly reliable and high-performance data communication from main distribution frame (MDF) through each intermediate distribution frame (IDF) to end points requiring fiber optics and/or copper cabling and associated equipment.
- B. This section condenses sections 27 11 00 – Communications Equipment Room Fittings, 27 13 00 – Communications Backbone Cabling, 27 15 00 – Communications Horizontal Cabling and 27 16 00 – Communications Connecting Cords into one comprehensive section.

### 1.02 SCOPE

- A. The work will include but not be limited to the following objectives:
  - 1. Contractor shall furnish and install all required components and accessories as outlined in the design documents for a complete and operable turn-key system.
  - 2. Quality workmanship is a high priority for the District and the Contractor shall be held to a high-level of professional workmanship. Contractors unfamiliar with the District's standards shall familiarize themselves with the standards and requirements prior to beginning work
  - 3. The Contractor shall furnish and install all required fire-treated ¾" (three quarter inch) plywood for the MDF and all IDF locations.
  - 4. The Contractor shall furnish and install a ground bus bar at the MDF and IDF rooms.
  - 5. The Contractor shall furnish and install all required racks and cabinets.
  - 6. The Contractor shall furnish, install, and configure uninterruptable power supply(ies) (UPS) for the MDF and/or IDF racks.
  - 7. The Contractor shall furnish and install all newly required conduit/raceway.
  - 8. The Contractor shall furnish and install all wire/cable (copper/fiber optic) as required.
  - 9. The Contractor shall terminate all strands of fiber at each fiber enclosure.
  - 10. The Contractor shall furnish and install termination all end-point equipment (patch panels, jacks, wall plates, enclosures, etc.).
  - 11. The Contractor shall furnish and install all patch cords (copper/fiber).
  - 12. The Contractor shall test and certify (for warranty) the installed cable plant.

1.03 RELATED REQUIREMENTS

- A. Section 01 – General Requirements
- B. Section 27 00 00 – Communications
- C. Section 27 05 00 – Common Work Results for Communication Systems.

1.04 INDUSTRY GUIDELINES AND STANDARDS

- A. California Electrical Code (CEC) – Current adopted version
- B. California Building Code (CBC) – Current adopted version.
- C. ANSI/TIA-568.0-D – Generic Communications Cabling for Customer Premises.
- D. ANSI/TIA-568.1-D – Commercial Building Communications Cabling Standard Part 1: General Requirements.
- E. ANSI/TIA 568-C.2 – Balanced Twisted-Pair Telecommunications Cabling and Components Standards
- F. ANSI/TIA 568.3-D – Optical Fiber Cabling Components Standard
- G. ANSI/TIA-569-D – Commercial Building Standard for Telecommunications Pathways and Spaces.
- J. ANSI/TIA-606-B – Administration Standard for the Commercial Telecommunications Infrastructure.
- K. ANSI/JSTD-607-C – Commercial Building Bonding and Grounding (Earthing) Requirements for Telecommunications.

1.05 QUALIFICATIONS

- A. The contractor shall possess a California C7 or C10 license.
- B. The Contractor or Subcontractor shall have 5 years’ documented experience.
- C. The Contractor and installers shall be certified by the product manufacturer.

1.06 SYSTEM REQUIREMENTS

- A. Any new installations or existing system modifications shall seamlessly integrate into the site's existing data cable plan system.

1.07 CONTRACTOR "SHOP DRAWINGS" DESIGN REQUIREMENTS

- A. See section 27 00 00 for requirements.

1.08 SUBMITTALS

- A. See section 27 00 00 for requirements.

1.09 WARRANTY

- A. Refer to Division 01 Warranty section.
- B. See section 27 00 00 for additional requirements.
- C. 25-year manufacturer's warranty/certification required for all copper and fiber cable plant installations.

1.10 CLOSEOUT DOCUMENTS

- A. See section 27 00 00 for requirements.

**PART 2 – PRODUCTS****2.01 GENERAL**

- A. See Appendix A at the end of this document for pre-approved materials.
- B. All products shall be new, unused and without blemishes and shall be of manufacturer's current and standard production.
- C. Contractor shall confirm all equipment part numbers with the Project Manager or District prior to ordering equipment and updating submittals as required.
- D. Drawings and Specifications indicate major system components, and may not show every component, connector, module, or accessory that may be required to support the operation specified. The Contractor shall provide all components needed for complete and satisfactory installation and operation.
- E. Install mounting hardware and anchors as recommended by the Manufacturer of the equipment that requires mounting to the building or structure and adhere to all code requirements. See section 27 05 00 for requirements.
- F. Product Availability
  - 1. Contractor, prior to submitting a proposal, shall determine product availability and delivery time, and shall include such considerations into his proposed Contract Time.

**2.02 MANUFACTURERS AND PRODUCTS**

- A. See Appendix A at the end of this document for pre-approved materials.
- B. Substitutions require proof of equivalence and approval by District and/or its representative.
- C. For maintenance and consistency with the existing installed base, data connectivity components (copper and fiber) shall be Ortronics.

**2.03 COPPER/FIBER OPTIC CABLES AND COMPONENTS**

- A. All copper cables and components shall be Cat6A rated.
  - 1. Cable to be reduced diameter. White jacket for default cable, Blue jacket for CCTV and Access Control only.
  - 2. Jacks to be keystone style.
- B. Patch cords system/color:

1. Data = Blue color
  2. AP = Green color
  3. CCTV = Blue color
  4. Clock/Intercom = Yellow color
  5. Access Control = Black color
  6. Fire Alarm/Intrusion Alarm = Red color
- C. Data jacks system/color:
1. Data/default = White color
  2. AP = Green color
  3. CCTV = Blue color
  4. Clock/Intercom = Yellow color
  5. Access Control = Black color
  6. Fire Alarm/Intrusion Alarm = Red color
- D. All fiber optic cables and components shall be single single-mode OS2 rated.
- E. Fiber optic cable terminations shall be LC-Duplex style.



**PART 3 – EXECUTION****3.01 ACCEPTABLE INSTALLERS**

- A. The components making up the structure cabling system shall only be installed by Contractors who are qualified to install, service and maintain the system.
- B. Cable terminations (copper or fiber) shall be installed by manufacturer certified technicians.
- C. The Contractor (or subcontractor listed at time of bid) must have at least five (5) years' experience before the Bid Opening Date.

**3.02 EXAMINATION**

- A. The Contractor shall be required to visit the installation site(s) prior to job bidding. The Contractor acknowledges that the failure to visit the site(s) will not relieve the Contractor of the responsibility for accurate bidding and performance of the Work.
- B. The Contractor shall report any discrepancies between the Specifications, Drawings, and Site Examination prior to the Bid Opening Date.

**3.03 PREPARATION**

- A. The Contractor shall order all required parts and equipment upon receipt of approved product submittals.
- B. The Contractor shall verify the availability of power where required.

**3.04 SHOP DRAWINGS**

- A. The Contractor shall create "Shop Drawings" per section 27 00 00 for this section.
- B. Submit drawings for review and approval by the Project Manager and/or Designer.

**3.05 INSTALLATION****A. ENTRANCE FACILITIES**

1. Contact telecommunications service provider and arrange for installation of demarcation point, protected entrance terminals, and housing when so directed by service provider.
2. Install underground or aerial pathways complying with recommendations in TIA/EIA-569-A, "Entrance Facilities" Article.

**B. UNDERGROUND ENTRANCE PATHWAY**

1. Install underground entrance pathway complying with Division 26.

**C. EQUIPMENT RACKS, CABINETS, ENCLOSURES AND ACCESSORIES**

1. Backboards:
  - a. Shall be installed behind the rack or cabinet if the cabinet is not able to be directly attached to two vertical wall studs.
  - b. Backboards shall be made of fire retardant or treated materials, squarely cut, and with sanded edges
  - c. Backboards shall be a minimum  $\frac{3}{4}$ " thick and large enough to secure it to two vertical wall studs.
  - d. The "FIRE RATED" stamp shall be visible.
  - e. Backboards shall be fastened with  $\frac{1}{4}$ " lag bolt and washer, non-recessed, with maximum spacing of 18" into 2 vertical studs. 1-1/2" embedment.
  - f. Visible portions (outside of cabinet) of Backboards shall be painted black.
2. All data & voice communications racks and cabinets shall be anchored in accordance with manufacturer's specifications, project specifications and/or drawn details, to walls and floors and grounded to building ground grid (not to water pipes etc.).
3. Securely mount equipment cabinet and racks to the building structure. A proper quantity of support fasteners shall be utilized. Typically lag bolts for wood installations, wedge anchors for concrete flooring. Submit data sheets for mounting fasteners for approval before installation. Mount equipment per DSA approved drawings/details.
4. Equipment cabinet mounted on or against walls will have 3-foot clearance in front of deepest component and accessible to rear for service.
5. MDF and all IDFs shall have at least one dedicated 120VAC 20-amp quad-receptacle each.
6. Patch Panels: Mount patch panels into the cabinet/rack. Match manufacturer of existing install or if new construction, see Appendix A.
7. Cable Management: Secure the cable bundle(s) to the rack strain relief and cable management behind the patch panels and cross connect block panels. Install horizontal cable management panels and brackets for routing and management of patch cables. Maintain TIA/EIA and BICSI standards on bundling, supporting and bend radius.

8. Surge Protected Outlet Strips: Required in MDF rack. Mount surge protected outlet strips per Manufacturer's directions. Refer to details on the Drawings for mounting location.
9. Furnish and install UPS in bottom of MDF/IDF rack.

**D. MDF/IDF GROUNDING**

1. Refer to Section 27 05 00 Grounding for more requirements.
2. Locate grounding bus bar to minimize the length of bonding conductors. Fasten to wall allowing at least 2-inch (50-mm) clearance behind the grounding bus bar. Connect grounding bus bar with a minimum No. 6 AWG grounding electrode conductor from grounding bus bar to suitable electrical building ground.
3. Bond metallic equipment (including ladder rack) to the grounding bus bar, using not smaller than No. 6 AWG equipment grounding conductor.

**3.06 WORKMANSHIP**

- A. Quality workmanship is a high priority for the District and the Contractor shall be held to a high-level of professional workmanship.
- B. The District' Project or Construction Manager will have the authority to reject Work which does not conform to the Drawings and Specifications.
- C. Comply with highest industry standards, except when specified requirements indicate more rigid standards or more precise workmanship.
- D. Perform Work with persons experienced and qualified to produce workmanship specified.
- E. Maintain quality control over suppliers and Subcontractors.

**3.07 WIRE/CABLE (COPPER/FIBER OPTIC)**

- A. Design, layout, size, and plan new cable runs as required.
- B. All wire and cable passing through metalwork shall be sleeved by an approved grommet or bushing.
- C. Conduit/raceway fill shall not exceed 40 percent of interior cross-sectional area.
- D. Neatly dress and tie (Velcro) all cabling.

- E. UTP cabling shall conform to a 6-foot separation requirement from the main power panel, transformers, switchgear and/or starter motors adjacent to the MDF, IDF and termination locations.
- F. Fiber optic cable shall be installed from the MDF to each IDF.
- G. Orange corrugated HDPE (High Density Polyethylene) Innerduct shall be used for fiber optic cable protection in all interior locations.
- H. Spicing of fiber optic cable shall be done with fusion splices.
- I. When required copper feeders (minimum 4-pair) are to be installed from the MDF to each IDF.
- J. Maintain proper bend radius for all cable installations.
- K. Do not exceed cable manufacturer's instructions for installation pull load. Any cable damaged by excessive pull force shall be replaced by the installing contractor.
- L. Modular plug terminated link (MPTL) style wiring is acceptable for CCTV with modified single connector permanent link testing.

### 3.08 LABELING

- A. MDF/IDF - Identification number in large font on front of cabinet.
- B. MDF, Fiber Optic LIU Ports – IDF number and room number
- C. MDF/IDF, Copper Patch Panel – Panels labeled P1, P2, P3, etc., ports labeled with room number.
- D. LAN Outlet – IDF number, patch panel number, patch panel port number.
- E. Cables to be labeled both ends with unique identifiers and from/to location identifiers. For Copper Cat cable IDF number, patch panel number, patch panel port number.
- F. T-bar ceilings shall have device labels attached next to the device for ceiling mounted equipment and at the tile for above ceiling equipment with device type and device ID points/IP address.

### 3.09 CONDUIT AND RACEWAY INSTALLATION

- A. See Division 26 and section 27 05 00 for requirements.

- B. Conduit bodies and any other sharp bend fittings are strictly prohibited for communications cabling (copper/fiber).
- C. Install proper radius conduit sweeps where required.

**3.10 FIELD QUALITY CONTROL AND TESTING**

- A. Upon reaching substantial completion, perform a complete test and inspection of the system. If found to be installed and operating properly, notify District of your readiness to perform the formal Test & Inspection of the complete system.
- B. Submit the Record Drawings (as-builts) to District for review prior to inspection.
- C. During the formal Test & Inspection (Commissioning) of the system, the Contractor shall have personnel available with tools and equipment to inspect wiring, devices, and system operation.
- D. If corrections are needed, the Contractor will be provided with a Punch-List of all discrepancies. Perform the needed corrections in a timely fashion.
- E. Notify the District when ready to perform a re-inspection of the installation.
- F. Provide 25-year manufacturer's warranty/certification documentation for all copper and fiber cable plant installations.

**3.11 CLOSEOUT DOCUMENTS**

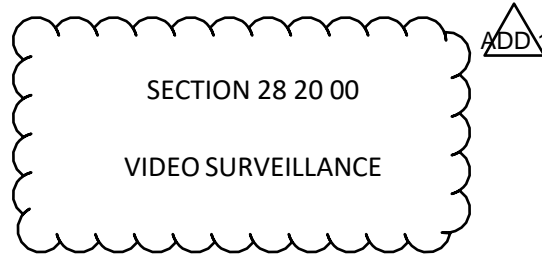
- A. See section 27 00 00 for requirements.

## APPENDIX A – Pre-Approved Materials

DESCRIPTION	MFG	PART NUMBER
Rack Cabinet 7'	Chatsworth Products	Z4-21N-113C-C12
Wall Mount Cabinet 24" (12 RU) 30" Deep	Chatsworth Products	12419-724
CUBE-iT Fan Kit	Chatsworth Products	40972-001
20 AMP Power Strip	Chatsworth Products	12848-701
Standard Busbar	Chatsworth Products	10622-010
12" Ladder Rack 10'	Chatsworth Products	11275-712
Ladder Rack Triangular Support Bracket	Chatsworth Products	11746-712
Ladder Rack Wall Angle Support 12"	Chatsworth Products	11421-712
Ladder Rack Butt-Splice Kit	Chatsworth Products	11301-712
Ladder Rack Foot Kit	Chatsworth Products	11309-701
19" Horizontal Cable Manager	Ortronics	808004759
Patch Panel 24-port 1-RU (Black)	Ortronics	OR-SPKSU24
Patch Panel 48-port 2-RU (Black)	Ortronics	OR-SPKSU48
Patch Panel Cable Management Support Bar	Ortronics	OR-CMBFR0RU
Faceplate, 2-port (White)	Ortronics	KSFP2-88
Faceplate, 4-port (White)	Ortronics	KSFP4-88
Surface Mount, 2-port (White)	Ortronics	KSSMB2
Cat6A Data Jacks (White)	Ortronics	KT2J6A-88
Cat6A Data Jacks (Green)	Ortronics	KT2J6A-45
Cat6A Data Jacks (Blue)	Ortronics	KT2J6A-36
Cat6A Data Jacks (Yellow)	Ortronics	KT2J6A-44
Cat6A Data Jacks (Black)	Ortronics	KT2J6A-00
Cat6A Data Cable, Riser (White = default)	Superior Essex	6B-246-4A

Cat6A Data Cable, Plenum (White = default)	Superior Essex	6B-246-4B
Cat6A Data Cable, Riser (Blue = CCTV/Access Control)	Superior Essex	6B-246-2A
Cat6A Data Cable, Plenum (Blue = CCTV/Access Control)	Superior Essex	6B-246-2B
Cat6A Data Cable, Indoor/Outdoor (Black)	Superior Essex	6B-272-ER
Cat6A Data Cable, OSP (Black)	Superior Essex	04-001-A8
Cat6A Patch Cord (Blue)	Quiktron	576-A10-0xx (xx = length)
Cat6A Patch Cord (Green)	Quiktron	576-A20-0xx (xx = length)
Cat6A Patch Cord (Yellow)	Quiktron	576-A115-0xx (xx = length)
Cat6A Patch Cord (Black)	Quiktron	576-A135-0xx (xx = length)
Cat6A Patch Cord Slim 1' (Blue)	C2G	30125
Cat6A Patch Cord Slim 1' (Green)	C2G	30153
Cat6A Patch Cord Slim 1' (Yellow)	C2G	30167
Cat6A Patch Cord Slim 1' (Black)	C2G	30139
Fiber Optic LIU 1-RU	Ortronics, Infinium	INFC01U-M4-E
Fiber Optic LIU 2-RU	Ortronics, Infinium	INFC02U-M4-E
Fiber Optic Adapter	Ortronics, Infinium	HDFP-LCD12AC
Fiber Optic LC Field Term Connector	Ortronics	205KAN9GASM
Fiber Optic Fanout Kit	Ortronics	61500858
Fiber Optic Cable Single- Mode OS2, Indoor/Outdoor	Superior Essex	W4012J101

END OF SECTION



## PART I - GENERAL

### 1.01 SUMMARY

- A. This section specifies software, equipment, accessories, wire, materials, installation, configuration, and testing requirements for a complete and operable Video Surveillance system. The system shall provide electronic recording/playback and monitoring of digital cameras installed at the site.

### 1.02 SCOPE

- A. The work will include but not be limited to the following objectives:
  - 1. Labor and Materials: The Contractor shall provide and pay for all labor, supervision, materials, accessories, wire, components, equipment, tools, transportation, and other facilities and services necessary for the proper installation of a turn-key Video Surveillance system to District.
- A. The CCTV system shall have the following minimum requirements.
  - 1. Cameras
    - a. Weather resistant IP67 or greater (exterior only)
    - b. Network/IP based
    - c. PoE powered
    - d. 5MP or 4K resolution
    - e. H.265 video compression
    - f. Day/night with IR illumination
    - g. Motion detection
    - h. ONVIF
  - 2. Network Video Recorder
    - a. Network/IP based
    - b. H.265 video compression
    - c. RAID 5 or greater
    - d. Record on motion detection
    - e. 30+ day recording
  - C. Software
    - a. PC and Mobile viewing
    - b. View live and recorded video
    - c. Search
    - d. Save video to MP4 format
    - e. Notifications



1.03 RELATED REQUIREMENTS

- A. Division 01 - General Requirements
- B. Section 27 00 00 - Communications
- C. Section 27 05 00 - Common Work Results for Communication Systems.
- C. Section 27 10 00 - Structured Cabling

1.04 QUALIFICATIONS

- A. Contractor shall be located within 50 miles or less from the project site to support 2-hour response time.
- B. Five years' experience installing Video Surveillance equipment systems.

1.05 SYSTEM REQUIREMENTS

- A. Any new installations or existing system modifications shall seamlessly integrate into the site's existing Video Surveillance system.

1.06 CONTRACTOR "SHOP DRAWINGS" DESIGN REQUIREMENTS

- A. See section 27 00 00 for requirements.
- B. Shop drawings are required for this section

1.07 SUBMITTALS

- A. See section 27 00 00 for requirements.

1.08 WARRANTY

- A. Refer to Division 01 Warranty section.
- B. See section 27 00 00 for additional requirements.

1.09 CLOSEOUT DOCUMENTS

- A. See section 27 00 00 for requirements.

## **PART 2 - PRODUCTS**

### **2.01 GENERAL**

- A. See Appendix A at the end of this document for pre-approved materials.
- B. All products shall be new, unused and without blemishes and shall be of manufacturer's current and standard production.
- C. Drawings and Specifications indicate major system components, and may not show every component, connector, module, or accessory that may be required to support the operation specified. Contractor shall provide all components needed for complete and satisfactory installation/operation.
- D. Product Availability
  - 1. Contractor, prior to submitting a proposal, shall determine product availability and delivery time, and shall include such considerations into his proposed Contract Time.
  - 2. Subject to compliance with these specifications, products and systems included in this section are to be installed as specified by the manufacturer of the system or engineer approved equal.

### **2.02 EQUIPMENT**

- A. The District's preferred manufacturer for CCTV equipment is i-Pro (formally Panasonic) for cameras and network video recorders (NVR).
- B. The District's preferred manufacturer for video intercom is Avigilon.
- C. Substitutions require proof of equivalence and approval by District and/or its representative.
- D. All exterior cameras to be IP67 rated or better.

### **PART 3 - EXECUTION**

#### **3.01 ACCEPTABLE INSTALLERS**

- A. The equipment shall only be installed by Contractors who are qualified to install and maintain the system.
- B. The Contractor (or subcontractor listed at time of bid) must have at least five (5) years' experience installing Video Surveillance equipment before the Bid Opening Date.

#### **3.02 EXAMINATION**

- A. The Contractor shall be required to visit the installation site(s) prior to job bidding. The Contractor acknowledges that the failure to visit the site(s) will not relieve the Contractor of the responsibility for observing and considering those conditions which a Contractor would have observed and considered during a site visit, estimating properly the difficulty and cost of successfully performing the Work or proceeding to perform the Work without additional cost to District.
- B. The Contractor shall report any discrepancies between the Specifications, Drawings, and Site Examination prior to the Bid Opening Date.

#### **3.03 PREPARATION**

- A. The Contractor shall verify materials are readily available prior to submitting product submittals and notify the Project Manager of long lead time items.
- B. The Contractor shall order all required parts and equipment only after receipt of approved product submittals from the Project Manager.
- C. The Contractor shall coordinate with the District's Technology Services department for needed IP addresses at least 2 weeks prior to configuration/installation.

#### **3.04 SHOP DRAWINGS**

- A. The Contractor shall create "Shop Drawings" per section 27 00 00.

#### **3.05 WORKMANSHIP**

- A. Quality workmanship is a high priority for the District and the Contractor shall be held to a high-level of professional workmanship.
- B. The District's Project or Construction Manager will have the authority to reject Work which does not conform to the Drawings and Specifications.

- C. Comply with highest industry standards, except when specified requirements indicate more rigid standards or more precise workmanship.
- D. Perform Work with persons experienced and qualified to produce workmanship specified.
- E. Maintain quality control over suppliers and Subcontractors.

### 3.06 PATHWAY AND EQUIPMENT INSTALLATION

- A. Install all conduit and pathway per design documents. Refer to 27 05 00 for additional information/requirements.
- B. Install all Cat6A cables per design documents. Refer to Section 27 10 00 for additional information/requirements.
- B. Equipment to be installed per manufacturer's instructions.
- C. Devices requiring PoE power shall be connected to a PoE switch in the MDF/IDF data rack – verify for adequate PoE power capacity.

### 3.07 CONFIGURATION

- A. Program cameras and/or NVR with network IP address using the following scheme.  
Note: x=site octet, contact District Electronics shop for site information.
  1. Cameras: 10.x.253.101 = Camera 1, 10.x.253.102 = Camera 2...
  2. NVR: 10.x.253.1
  3. POE Switch: 10.x.253.10 = 1<sup>st</sup> switch, 10.x.253.11 = 2nd switch...
  4. Gateway: 10.x.0.1
  5. Subnet Mask: 255.255.0.0
- B. All equipment to be fully configured and tested for functionality prior to District acceptance testing.

### 3.08 CAMERA VIEW

- A. Adjust view aim, zoom and focus camera to show intended view from design documents.

### 3.09 FIELD QUALITY CONTROL AND TESTING

- A. Upon completion of network programming and initial view setting, notify District of your readiness to perform the formal camera view review with District or its representative. Make all adjustments required from District review.
- B. Submit the Record Drawings (as-builts) to District for review prior to inspection.

- C. During the formal Test & Inspection (Commissioning) of the system, Contractor to have personnel available with tools and equipment to inspect wiring, devices, and system operation.
- D. If corrections are needed, the Contractor will be provided with a Punch-List of all discrepancies. Perform the needed corrections in a timely fashion.
- E. Notify the District when ready to perform a re-inspection of the installation.

3.10 AS-BUILT DRAWINGS

- A. See section 27 00 00 for requirements.

**APPENDIX A – Pre-Approved Materials**

**VIDEO SURVEILLANCE:**

<b>DESCRIPTION</b>	<b>MFG.</b>	<b>PART NUMBER</b>
Network Video Recorder 48TB	i-PRO	NVR-RL-2-48TB-V3
NVR license	i-PRO	ASM-300
Interior Rated IP Camera, Dome (5MP Sensor)	i-PRO	WV-S22500-V3L
Exterior Rated IP Camera, Dome, Vandal Resistant (5MP Sensor)	i-PRO	WV-S25500-V3LG
Exterior Rated IP Camera, Multi-Directional (3x4MP Sensors)	i-PRO	WV-S8543LG
Exterior Rated IP Camera, Multi-Directional (4x4MP Sensors)	i-PRO	WV-S8544LG
Pendant Wall Mount Kit	i-PRO	PWM485S
Pendant Corner Mount Kit	i-PRO	PCM485S
Pendant Pole Mount Kit	i-PRO	PPM485S
Wall Mount Bracket	i-PRO	WV-QWL500-W
Back Box	i-PRO	WV-QJB500-W
Corner Bracket	i-PRO	WV-QCN500-W
Sunshade	i-PRO	WV-QSR500-W
Dome Cover	i-PRO	WV-CW7SN
2 RU Din Rack Mount Adapter	Antaira	DIN-Rack-2U
240W Power Supply	Antaira	NDR-240
960W Power Supply	Antaira	SDR-960-48
10-Port Industrial Gigabit PoE+ Managed Ethernet Switch	Antaira	LMP-1002G-SFP
20-Port Industrial Gigabit PoE+ Managed Ethernet Switch	Antaira	LMP-2004G-SFP
28-Port Industrial Gigabit PoE+ Switch 1RU	Antaira	LNP-2804GN-SFP-T
Gigabit Ethernet-Single Mode Transceiver	Antaira	SFP-S10-T
Video Intercom	Avigilon	3.0C-H4VI-RO1-IR

END OF APPENDIX A

END OF SECTION

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ABBREVIATIONS:

Table with 2 columns: Abbreviation and Description. Includes terms like AMPERE, ABOVE FINISHED FLOOR, ANNUNCIATOR, ACCESS POINT, etc.

ANCHORAGE AND BRACING NOTES:

APPLICABLE CODE: 2022 CBC REVISED: 05/18/2023

MEP COMPONENT ANCHORAGE NOTE:

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE APPROVED CONSTRUCTION DOCUMENTS...

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVEABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER...

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE...

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT...

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY...

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE:

PIPING, DUCTWORK AND ELECTRICAL SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTIONS SYSTEM ARE NOTED BELOW.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPES (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E).

- MP o MD o PP o E o OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

TECHNOLOGY SYMBOL LEGEND:

ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

Table with 5 columns: SYMBOL, DESCRIPTION, MODEL, PART NUMBER, NOTES/DETAIL REFERENCES. Lists various equipment like DATA RACK, SURFACE MOUNTED JUNCTION BOX, BACKBONE CONDUIT, etc.

PROJECT CODES AND STANDARDS

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE: JANUARY 1, 2023. 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1 2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)...

CONTRACTOR FURNISHED DOCUMENTS:

- (SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)
1. ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:
1.1. CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND APPROVED BY THE DESIGNER...

SCOPE OF WORK:

- 1. PROVIDE AND INSTALL I-PRO CAMERAS AND COMPONENTS.
2. PROVIDE AND INSTALL ANTARIA SWITCHES AND COMPONENTS.
3. PROVIDE AND INSTALL I-PRO NETWORK VIDEO RECORDER.
4. PROGRAM I-PRO CAMERAS WITH IP ADDRESSES FROM SHEET T800 DETAIL 1...

SHEET INDEX:

Table with 2 columns: SHEET NO., DESCRIPTION. Lists sheets T000, T100, T800, T801, T900.



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TECHNOLOGY & FIRE LIFE SAFETY 5433 El Camino Ave., Suite 508 Camille, CA 95608 Office: (916) 359-4000 www.kmmervices.com



PROJECT MCCLATCHY HIGH SCHOOL

CCTV UPGRADE

3086 FREPORT BLVD. SACRAMENTO, CA. 95818

CLIENT SACRAMENTO UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE SACRAMENTO, CA. 95824

ISSUED

Table with 3 columns: MARK, DATE, DESCRIPTION. Shows a revision for 2023-07-19.

MANAGEMENT

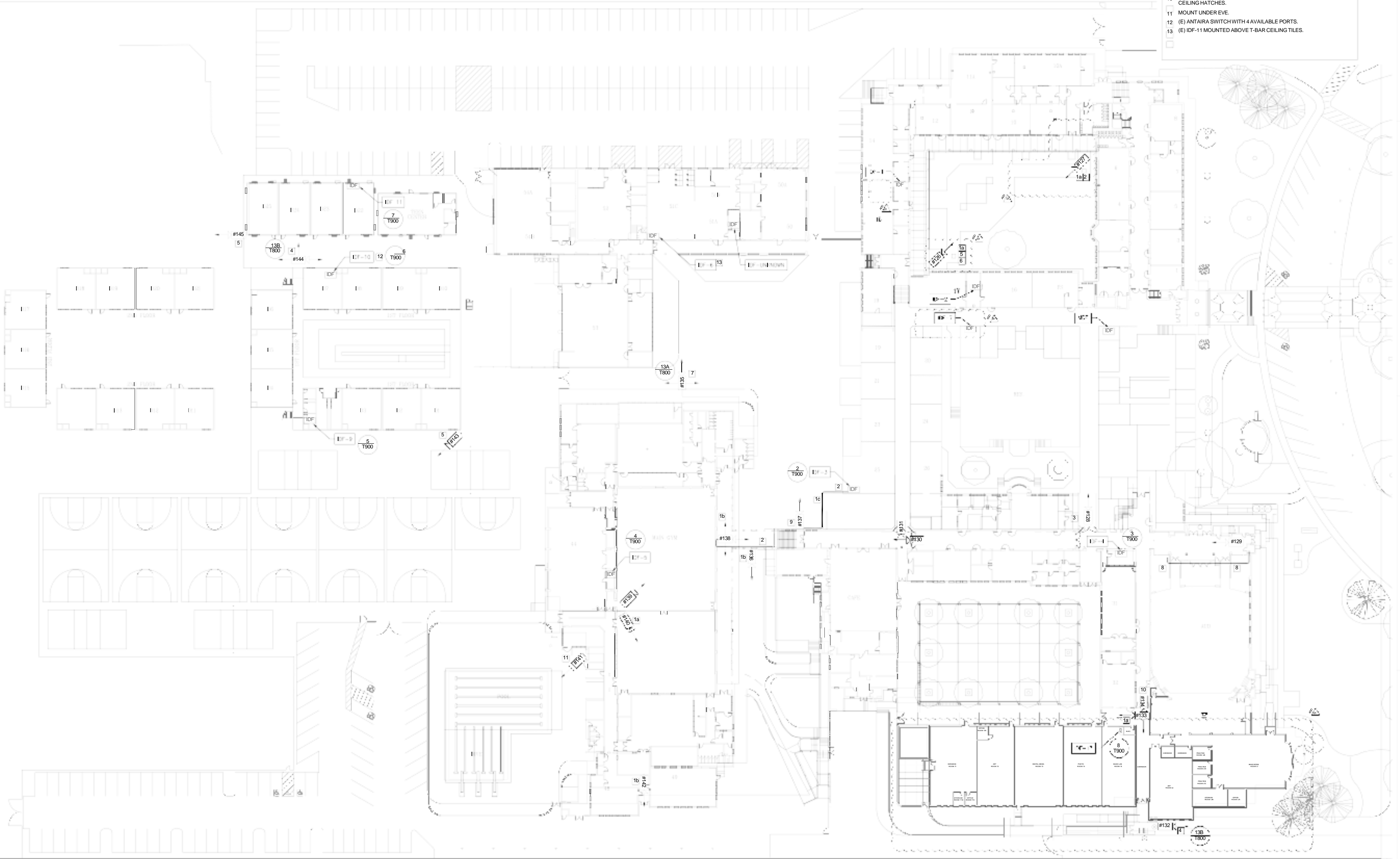
Table with 3 columns: LIONAKIS PROJECT NO., DSA APPLICATION NO., COPYRIGHT. Shows project number 022121 and copyright 2022.

TITLE CCTV SYMBOLS AND NOTES

CONSTRUCTION DOCUMENTS

SHEET

T000



**GENERAL NOTES:**

1. ALL CAMERA DATA DROPS SHALL BE CAT6A, BLUE CABLES AND BLUE JACKS.
2. ALL CAMERA SHALL BE PLUGGED INTO AN ANTAIRA SWITCH PORT AT THE IDF. PROVIDE LISTING OF CAMERA ID AND SWITCH PORT ID.
3. ALL CAT6A PATCH CORDS SHALL BE SLIMLINE TYPE AND NOT EXCEED 12' OF SLACK IN THE IDF.
4. ALL INSTALLED CONDUIT SHALL BE CLEANED, PRIMED AND PAINTED TO MATCH EXISTING SURROUNDINGS.
5. ALL EXTERIOR CAMERAS SHALL HAVE A SUN SHADE INSTALLED, P/N WV-QSR500-W.
6. SEE SHEET T800 FOR CAMERA DETAILS & SYSTEM IP INFORMATION.

**SHEET NOTES:**

1. PROVIDE 3/4" GRC FOR EXTERIOR. ESTIMATED LENGTH:  
a. 75'  
b. 100'  
c. 150'
2. CORE THROUGH EXTERIOR WALL.
3. MOUNT CAMERA ON WALL BELOW DROP IN CEILING TILES.
4. REPLACE (E) PTZ WITH NEW CORNER MOUNT MULTI-VIEW CAMERA.
5. PROVIDE WATERPROOF CONDUIT STUB INTO REAR OF CAMERA.
6. INSTALL EXTENSION BACK BOX TO AVOID VIEW TO BE BLOCKED BY DOWNSPOUT.
7. REPLACE (E) PTZ WITH NEW WALL BRACKET AND MULTI-VIEW CAMERA.
8. (E) 3/4" PATHWAY BELOW BLEACHERS.
9. PROVIDE CAMERA BACK BOX FOR CAMERA AND PASS THROUGH FOR DOWNSTREAM CAMERA CONNECTIONS.
10. RUN CAT6A CABLES IN ATTIC SPACE ACCESSIBLE VIA EXISTING CEILING HATCHES.
11. MOUNT UNDER EYE.
12. (E) ANTAIRA SWITCH WITH 4 AVAILABLE PORTS.
13. (E) IDF-11 MOUNTED ABOVE T-BAR CEILING TILES.



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PROJECT  
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**CCTV UPGRADE**  
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SACRAMENTO, CA 95818

CLIENT  
SACRAMENTO UNIFIED SCHOOL DISTRICT  
5735 47TH AVENUE  
SACRAMENTO, CA 95824

ISSUED MARK	DATE	DESCRIPTION
2/1	2023-07-19	ADDENDUM-01

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TITLE  
**CCTV SITE PLAN**

CONSTRUCTION DOCUMENTS

SHEET  
**T100**



**CCTV SITE PLAN**  
SCALE: 1"=100'





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NOT USED

NOT USED

NOT USED

**10** CCTV CAMERA WALL MOUNTING - INTERIOR  
SCALE = NONE

**7** CONDUIT SUPPORT DETAIL - HORIZONTAL  
SCALE = NONE

**4** CONDUIT LAYOUT DETAIL - HORIZONTAL BACKBONE / SLEEVES  
SCALE = NONE

NOT USED

NOT USED

**9** CCTV EXTERIOR WALL MOUNTING DETAIL  
SCALE = NONE

**6** CONDUIT SUPPORT DETAIL - VERTICAL  
SCALE = NONE

**3** CCTV EXTERIOR CEILING TO EXTERIOR HORIZONTAL BACKBONE DETAIL  
SCALE = NONE

**13** 360° CCTV WALL CORNER MOUNT DETAIL  
SCALE = NONE

**New Camera Bracket Combination Examples**

**WV-QWL500 with other bracket combination example**

**Installation on the corner**

- WV-QWL500-W + WV-QJB500-W
- WV-QWL500-W + WV-QCN500-W
- WV-QWL500-G + WV-QJB500-G
- WV-QWL500-G + WV-Q183

**8** CONDUIT STRAP SPACING DETAIL  
SCALE = NONE

**5** CONDUIT SLEEVE PENETRATION DETAIL  
SCALE = NONE

NOT USED

NOT USED

**12** CCTV CAMERA SUN SHADE MOUNTING DETAIL  
SCALE = NONE

**11** CAMERA IP / DESCRIPTIONS  
SCALE = NONE

IP Address	Subnet	Existing / New	Device	Connect to MDF / IDF#	Notes
10 39 253 126	255.255.0.0	(N)	WV-S25500-V3LG	IDF-2	Ext. court West of room 6
10 39 253 127	255.255.0.0	(N)	WV-S25500-V3LG	MDF	Ext. court North of room 17
10 39 253 128	255.255.0.0	(N)	WV-S22500-V3L	IDF-4	Hallway NW of Auditorium
10 39 253 129	255.255.0.0	(N)	WV-S22500-V3L	IDF-4	Hallway NE of Auditorium
10 39 253 130	255.255.0.0	(N)	WV-S22500-V3L	IDF-3	Hallway NE of Cafeteria
10 39 253 131	255.255.0.0	(N)	WV-S22500-V3L	IDF-3	Hallway NE of Cafeteria
10 39 253 132	255.255.0.0	(N)	WV-S8543LG	IDF-13	Driveway South of room 34
10 39 253 133	255.255.0.0	(N)	WV-S22500-V3L	IDF-13	Hallway SW of Auditorium
10 39 253 134	255.255.0.0	(N)	WV-S22500-V3L	IDF-13	Hallway SW of Auditorium
10 39 253 135	255.255.0.0	(N)	WV-S8543LG	IDF-5	Driveway North of Main Gym
10 39 253 136	255.255.0.0	(N)	WV-S25500-V3LG	IDF-3	Courtyard East of Main Gym
10 39 253 137	255.255.0.0	(N)	WV-S25500-V3LG	IDF-3	Courtyard East of Main Gym
10 39 253 138	255.255.0.0	(N)	WV-S8543LG	IDF-3	Ext. hallway East of Main Gym
10 39 253 139	255.255.0.0	(N)	WV-S22500-V3L	IDF-5	Main / Large Gym
10 39 253 140	255.255.0.0	(N)	WV-S22500-V3L	IDF-5	Small Gym
10 39 253 141	255.255.0.0	(N)	WV-S25500-V3LG	IDF-5	Pool area
10 39 253 142	255.255.0.0	(N)	WV-S22500-V3L	IDF-5	Hallway West of room 49
10 39 253 143	255.255.0.0	(N)	WV-S25500-V3LG	IDF-9	Courtyard South of room D-1
10 39 253 144	255.255.0.0	(N)	WV-S8543LG	IDF-10	Ext. walkway North of room D-7
10 39 253 145	255.255.0.0	(N)	WV-S25500-V3LG	IDF-11	Field West of Port. D-25

**1** CAMERA IP / DESCRIPTIONS  
SCALE = NONE

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P.01	2023-07-19	ADDENDUM 01

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DSA APPLICATION NO.	70X-30007
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TITLE  
**CCTV ONE-LINE AND DETAILS**




















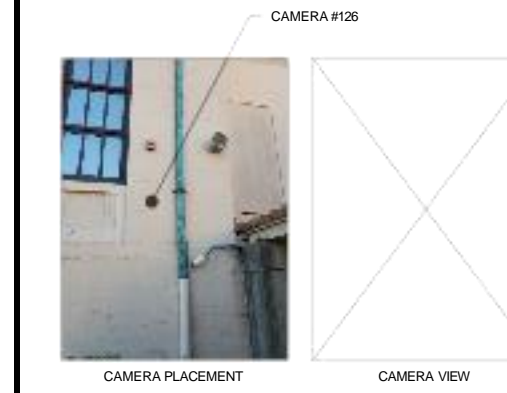







CONSTRUCTION DOCUMENTS

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**T800**

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NOT USED		NOT USED		 <p>CAMERA #145 CAMERA PLACEMENT    CAMERA VIEW</p> <p>28 CAMERA #145 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #144 CAMERA PLACEMENT    CAMERA VIEW</p> <p>27 CAMERA #144 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #143 CAMERA PLACEMENT    CAMERA VIEW</p> <p>26 CAMERA #143 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #142 CAMERA PLACEMENT    CAMERA VIEW</p> <p>25 CAMERA #142 PICTURE DETAIL SCALE: NONE</p>
 <p>CAMERA #141 CAMERA PLACEMENT    CAMERA VIEW</p> <p>24 CAMERA #141 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #140 CAMERA PLACEMENT    CAMERA VIEW</p> <p>23 CAMERA #140 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #139 CAMERA PLACEMENT    CAMERA VIEW</p> <p>22 CAMERA #139 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #138 CAMERA PLACEMENT    CAMERA VIEW</p> <p>21 CAMERA #138 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #137 CAMERA PLACEMENT    CAMERA VIEW</p> <p>20 CAMERA #137 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #136 CAMERA PLACEMENT    CAMERA VIEW</p> <p>19 CAMERA #136 PICTURE DETAIL SCALE: NONE</p>		
 <p>CAMERA #135 CAMERA PLACEMENT    CAMERA VIEW</p> <p>18 CAMERA #135 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #134 CAMERA PLACEMENT    CAMERA VIEW</p> <p>17 CAMERA #134 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #133 CAMERA PLACEMENT    CAMERA VIEW</p> <p>16 CAMERA #133 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #132 CAMERA PLACEMENT    CAMERA VIEW</p> <p>15 CAMERA #132 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #131 CAMERA PLACEMENT    CAMERA VIEW</p> <p>14 CAMERA #131 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #130 CAMERA PLACEMENT    CAMERA VIEW</p> <p>13 CAMERA #130 PICTURE DETAIL SCALE: NONE</p>		
 <p>CAMERA #129 CAMERA PLACEMENT    CAMERA VIEW</p> <p>12 CAMERA #129 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #128 CAMERA PLACEMENT    CAMERA VIEW</p> <p>11 CAMERA #128 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #127 CAMERA PLACEMENT    CAMERA VIEW</p> <p>10 CAMERA #127 PICTURE DETAIL SCALE: NONE</p>	 <p>CAMERA #126 CAMERA PLACEMENT    CAMERA VIEW</p> <p>9 CAMERA #126 PICTURE DETAIL SCALE: NONE</p>	 <p>8 IDF-13 PICTURE DETAIL SCALE: NONE</p> <p>IDF-13 NOTES: A. PROVIDE (N) CONTRACTOR FURNISHED ANTAIRA 28 PORT SWITCH, P/N LNP-2804GN-SFP-T, POWER SUPPLY P/N SDR-960-48, AND TRANSCEIVER P/N SFP-S10-T. MOUNT (N) POWER SUPPLY ON (N) DIN RAIL AT REAR OF RACK.</p>	 <p>7 IDF-11 PICTURE DETAIL SCALE: NONE</p>		
 <p>6 IDF-10 PICTURE DETAIL SCALE: NONE</p> <p>IDF-10 NOTES: A. PROVIDE (N) CONTRACTOR FURNISHED ANTAIRA 28 PORT SWITCH, P/N LNP-2804GN-SFP-T, POWER SUPPLY P/N SDR-960-48, AND TRANSCEIVER P/N SFP-S10-T. MOUNT (N) POWER SUPPLY ON (N) DIN RAIL AT REAR OF RACK.</p>	 <p>5 IDF-9 PICTURE DETAIL SCALE: NONE</p>	 <p>4 IDF-5 PICTURE DETAIL SCALE: NONE</p> <p>IDF-5 NOTES: A. REMOVE (E) WIRE MANAGER TO MAKE ROOM FOR (N) CONTRACTOR FURNISHED ANTAIRA 28 PORT SWITCH, P/N LNP-2804GN-SFP-T, POWER SUPPLY P/N SDR-960-48, AND TRANSCEIVER P/N SFP-S10-T. MOUNT (N) POWER SUPPLY ON (N) DIN RAIL AT REAR OF RACK. B. INSTALL A CABLE MANAGEMENT BAR AT THE REAR OF EXISTING PATCH PANEL TO SUPPORT EXISTING CABLES. C. REPLACE (E) CAT6A PATCH CORDS WITH NEW 12' OR LENGTH AS REQUIRED CAT6A SLIMLINE PATCHCORDS.</p>	 <p>3 IDF-4 PICTURE DETAIL SCALE: NONE</p> <p>IDF-4 NOTES: A. PROVIDE (N) CONTRACTOR FURNISHED ANTAIRA 28 PORT SWITCH, P/N LNP-2804GN-SFP-T, POWER SUPPLY P/N SDR-960-48, AND TRANSCEIVER P/N SFP-S10-T. MOUNT (N) POWER SUPPLY ON (N) DIN RAIL AT REAR OF RACK.</p>	 <p>2 IDF-3 PICTURE DETAIL SCALE: NONE</p>	NOT USED		

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CCTV PICTURE  
DETAILS

CONSTRUCTION DOCUMENTS

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