

1. Background:

Cameras in Bldg. 5401 are beyond end-of-life cycle, and they do not provide adequate capability or coverage. The equipment will be in support of 343 TRS, Camp Bullis, Joint Base San Antonio, TX.

**27 (EA) Enterprise Edition camera connection license
1 (EA) Network Video Recorder
1 (EA) Workstation
20 (EA) Surface Mount Indoor Dome Camera
5 (EA) Outdoor Bullet Camera
2 (EA) Multi Sensor Camera Module with 4 millimeter lens
2 (EA) Outdoor pendant mount adapter
2 (EA) Outdoor Dome Cover
2 (EA) Pedant wall mount adapter
2 (EA) Optional Infrared (IR) illuminator ring
2 (EA) Corner mount adapter
5 (EA) Junction box
2 (EA) 4K Ultra High Definition (HD) Premium LED Monitor
2 (EA) Universal Low Profile wall mount
2 (EA) Smart Managed Power over Ethernet + Switch
7,500 (FT) CAT6e plenum cable
1 (EA) Engineering, Installation and Commissioning Services**

2. Item needed and quantity (as applicable):

27 (EA) Enterprise Edition camera connection license

- Software supports multiple actions on camera notifications.
- Dual Streaming for Open Network Video Interface (ONVI) compliant cameras.
- Supports High Efficiency Video Coding.265, High Efficiency Video Coding.264, Moving Picture Experts Group 4. Video Compression Format, 2000 video compression.

1 (EA) Network Video Recorder

- 48 Terabyte (TB)
- 2 Universal Rack Mount
- Recording Mode Real Time
- Software solution
- Hardware solution
- Simultaneous live, recording and playback
- Recording system Hard Disk Drive
- Storage capacity 48 Tera Byte
- Resolution 7000 (30 Mega Pixel)
- Expandable to multi-Network Video Recorder
- Standard Operating system
- Voltage 100 ~ 240 Voltage Alternate Current

- Power consumption watts (W) 270 ~ 750
- Weight 34.5 Lbs.
- Dimensions 718 x 482 x 87 inches
- Preloaded with video management software

1 (EA) Workstation

- Memory Technology
- Double Data Rate 4 Synchronous dynamic random-access memory
- Processor Type Core i3
- Standard Memory 8 Gigabit (GB)
- Ethernet Technology GB Ethernet
- Operating System standard Enterprise
- Input Voltage 120 V Alternate Current (AC), 230 V AC
- Environmental Certification Restriction of Certain Hazardous Substances
- Remote Monitoring Workstations 5th Generation
- Universal Serial Bus Keyboard
- Universal Serial Bus Mouse
- Power cord
- Mini Tower, DVD-Read Write
- 2 Gigabit Ethernet RJ-45 ports (1000Base-T)
- 2 x Multicast Dissemination Protocol to Display Port Adapters
- 2 x Multicast Dissemination Protocol to High-Definition (HD) Multimedia Interface Adapters
- Depth 292 mm
- Form Factor Small Form Factor
- Height 290 mm
- Weight 11.59 lbs.
- Width 92.6 mm
- 4K SUPPORT Supports full 4K video streaming
- Supports High-Definition Cameras

20 (EA) Surface Mount Indoor Dome Camera

- Color Type Color / Monochrome
- Resolution 4 Megapixel
- Indoor Type
- Mount Type Surface
- Electrical Specifications Voltage: 12 Volts Direct Current (DC) / 24 Volts Alternate Current (AC)
- Supports Power over Ethernet
- Power Consumption: 13 W
- Focal length 3.3 ~ 9 mm
- Compression H.264 H.265 High-Definition Stream Management Smart Codec
- Smart Codec, Motion JPEG
- Back Light Compensation
- White Balance
- Electronic Shutter range Automatic, Manual (1/7 to 1/8196 sec)
- Network Properties Interface: 100BASE-TX, RJ45 Connector, CAT5e Cabling

- Supports standard multiple network protocols
- Image Frame Rate: 25 fps/30 fps
- Dimensions mm: 163 x 163 x 118
- Weight 2 lbs.
- Protection: Internet Protocol (IP) 66, IP67, IK10.
- Expandable Storage
- True Wide Dynamic Range

5 (EA) Outdoor Bullet Camera

- Chip Inch Size 1/2.8
- Color Type Color / Monochrome
- Resolution 4 Mega Pixel
- Electrical Specifications Voltage: 12Volts DC C, 24Volts AC
- Power over Ethernet
- Power Consumption: 13 W
- Motion Activated
- Mount Type Surface
- Wide Dynamic Range
- Network Properties Image Frame Rate: 25 fps/30 fps
- Supports multiple standard network protocols
- Back Light Compensation
- White Balance Support
- Electronic Shutter Range Automatic, Manual (1/7 to 1/8196 sec)
- Zoom Support
- Compression Type H.264m H265 High-Definition Streaming Management
- Smart Codec, Motion Joint Photographic Experts Group
- Dimensions mm: 280 x 126 x 91
- True Wide Dynamic Range

2 (EA) Multi Sensor Camera Module with 4-millimeter lens

- Color Type Color / Monochrome
- Resolution TVL 3×4K (8 MP)
- Megapixel
- Dome Type Pan Tilt Zoom
- Sensitivity lux 0.04
- Digital Signal Processing support
- Mount Type Surface, In-ceiling, Pendant
- Electrical Specifications Voltage: 24V DC / 24V AC
- Power over Ethernet+
- Focal length 4 mm
- Compression Type H.264m H265 High-Definition Streaming Management
- Motion Joint Photographic Experts Group
- Back Light Compensation
- White Balance
- Electronic Shutter range 1/8 ~ 1/8000s
- Network Properties Interface: RJ45 connector, Gigabit Ethernet, 1000BASE-TX
- Supports Multiple Network Protocols

- Environmental Specifications Operating Temp -40 ~ 140 F
- True Wide Dynamic Range

2 (EA) Outdoor pendant mount adapter

- Lanyard anchor
- Camera mounting screws
- Infrared ring cable connector
- Audio, In/Out, Aux power connector
- Pigtail connector.
- Ethernet port openings

2 (EA) Outdoor Dome Cover

- Dome bubble and cover, for outdoor surface mount or pendant mount, clear.

2 (EA) Pedant wall mount adapter

- Weight: 2.45 lbs
- Finish: Powder coat, cool grey
- Body: Aluminum, silicone rubber
- 3/4" National Pipe Thread (NTP) conduit entry

2 (EA) Corner mount adapter for multisensory camera

- Bracket Type Dome Brackets
- Mount Type Corner
- Physical Specifications Weight g: 1,240
- Housing Material Aluminum

5 (EA) Junction box

- Low profile junction box
- Supports High-Definition Bullet Cameras
- 2x 3/4" (NTP) cable entry holes for cable connections
- Meets Inter Protocol 66 weather rating
- Weight: 1.30 lbs.
- Finish: Powder coated aluminum, European color matching system 9003

2 (EA) 4K Ultra High Definition (HD) Premium LED Monitor

- Screen Size (Diagonal) 54.6"
- Resolution 3840 x 2160
- Bit Depth / Color Support 10-Bit (1.07 billion colors)
- Brightness 500 one candelas per square meter
- Viewing Angle (H x V) 178 x 178°
- Aspect Ratio 16:9
- Contrast Ratio 1100:1
- Response Time 8 millisecond

- Horizontal Frequency 60 to 75 kHz
- Vertical Frequency 55 to 75 Hz
- Backlighting Technology
- Input Ports 1 x DisplayPort Video
- 1 x HD Multimedia Video
- 1 x Digital Video Disk I-D Video
- 1 x 1/8" / 3.5 mm Audio
- 1 x 15-Pin Video Graphics Array Video
- Output Ports 1 x DisplayPort – Video
 - 1 x HD – Video
 - 1 x Digital Video Disk – Video
 - 1 x 1/8" / 3.5 mm – Audio
- Universal Serial Bus Ports 1
- Universal Serial Bus Ports Type-A - Service
- Control Infrared
- Built-In Speakers 2 x 1 W
- Power Consumption Operational: < 125.0 W
- Alternate Current Input Power 100 to 240 VAC, 50 / 60 Hz

2 (EA) Universal Low Profile wall mount to support Premium LED Monitors

- Supported Screen Sizes 37 to 65"
- Weight Capacity 165 lb.
- Mounting-Hole Pattern 80 x 58
- Tilt Adjustment -10 to +0°
- Orientation Landscape
- Distance from Mounting Surface 1.77"
- Wall Plate Size 34.02 x 7.99"
- Dimensions 34.02 x 17.32 x 1.77"

2 (EA) Smart Managed Power over Ethernet + Switch

- Connectors (24) 10/100/1000 RJ-45 ports (2) 100/1000 SFP slots
- Protocols Carrier-sense multiple access
- Store-and-Forward switching architecture
- Media Access Control (MAC) 8K MAC address table
- Backplane 52 Gbps
- Dimensions: Width: 17.4" Depth: 8.3" Height: 1.73"
- Power Input 100-240 Volts Alternate Current
- Power Consumption 438 Watts
- Power Over Ethernet Budget 370 Watts 30 Watts for (12) ports simultaneously
- Power Over Ethernet Budget 15.4 Watts for (24) ports simultaneously
- Surge Protection 6 kilo volts
- Weight 6.6 lbs.
- Internet Protocol Pv6 Access Management
- Support Jumbo Frame up to 9Kbytes
- Authentication – RADIUS
- Terminal Access Controller Access-Control System
- Dynamic Host Configuration Protocol Relay

- Dynamic Host Configuration Protocol support
- Supports Access Control List
- Internet Protocol standard/extended Access Control List
- Link Layer Discovery Protocol
- Institute of Electrical and Electronics Engineers 802.3az Energy Efficiency
- Internet Protocol Source Guard, Port Security
 - 17.0 7,500 FT Category 6 plenum cable
 - Type Ethernet
 - Connectors RJ45s and Keystone Jacks
 - Specifications 23 American Wire Gauge

7 (EA) Outdoor Camera Installation Kit

- Category 6E Plenum Data Communication Cable (PDCC)
- 23 American wire gauge (AWG)
- Solid soft drawn bare copper conductor.
- Low smoke plenum rated insulation.
- Different lays and a central separator
- Minimize for crosstalk interference.
- Low smoke plenum rated jacket
- Unshielded Cat6 RJ45
- Plug with Load-Bar
- Adaptable Solid or Stranded conductor
- 4-pair Cat6 cable
- Staggered nose pattern

20 (EA) Indoor Camera Installation Kit

- Category 6E Portable Data Collection Center
- 23 American Wire Gauge
- Solid soft drawn bare copper conductor.
- Low smoke plenum rated insulation.
- Different lays and a central separator
- Minimize for crosstalk interference.
- Low smoke plenum rated jacket
- Unshielded Cat6 RJ45
- Plug with Load-Bar
- Adaptable Solid or Stranded conductor
- 4-pair Cat6 cable
- Staggered nose pattern

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4. Point of Contact:

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