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4.26 Electrical
26.12.00 - (NEW) Medium Voltage Transformers
1299 Completely new section governing the use of medium voltage transformers when used by a project.

4.26 Electrical
26.22.00 - Transformer Efficiency
1322 Part 2: Change standard to require 80 deg temperature rated transformers in lieu of current 115 deg rated.

4.26 Electrical
26.25.00 - IPS4 Busway rating
1387 Section 2.2(D): Add language requiring enclosed busways to be IPS4 rated

4.26 Electrical
26.28.26 - ATS No-load break-type bypass switch
1415 Section 2.1: Change spec to require NO-LOAD-break type in lieu of LOAD-BREAK-type

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(A) & 2.2(B): GE Picture Perfect to Lenel OnGuard (LOG)

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(F): General Electric (GE, now a United Technologies Corporation) Micro5 changed to Lenel OnGuard X series security control panel (SCP)

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(F): GE Picture Perfect Version 4.5.1 changed to Lenel OnGuard 7.5

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(F): Added Video Systems

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(G): Added Qognify Critical Situater (Situator)

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(G): Remove IMTG Office of Airport Technology & Business Systems (ATBIS) add IT Security & Public Safety Systems (ITSPS) unit

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(H): Add hardware power supplies shall be located in LAWA IT Rooms as indicated in the drawings

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1759, 1770 Section 1.1(J): Change - The electrified locking hardware power supplies shall be located in LAWA IT Rooms, or at the location of the portals

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.1(J): Remove PIV format

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Add - and must include the Open Supervised Device Protocol (OSDP) feature

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.2(a)(6): Add - ASP LAWA Police Division Airport Security Plan

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.2(a)(11): Add - LAWA ITSPS LAWA IT Security and Public Safety Systems

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.2(a)(12): Add - LOGS Lenel OnGuard System

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.2(a)(19): Add - Situator Qognify Critical Situater

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1760 Section 1.2(a)(20): Add - OSDP Open Supervised Device Protocol

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1761 Section 1.4(a)(2): Add - Include manufacturer proposed/scheduled date to discontinue and/or cease sale and/or supporting the equipment/device, if this available

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1762 Section 1.4(a)(6-a, 7-f): Add - alarm monitoring

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1762 Section 1.4(a)(7-h): Add - Connection/Integration of new servers and devices with the existing Lenel On guard System (LOG)

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1764 Section 1.5(A): The security System Contractor or approved subcontractor shall be Lenel OnGuard certified security systems installer for the specific type of ACAMS equipment being installed. The Security Systems Contractor shall offer proof of certification by submitting a copy of certification with the bid

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1764 Section 1.6(B): Contractor submits to LAWA all evidence to support the claim that the item proposed for substitution is equal to preferred to, and/or better than the specified item

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1766 Section 1.9(B)(2): Note that all programming and configuration of the Lenel OnGuard Software shall be done by LAWA. The Security System Contractor shall submit programming (and configuration) sheets to LAWA to indicate how the security devices and portals are to be configured.

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1767 Section 1.9(B)(3): Add - Permission to re-use existing infrastructure must be obtained in writing. There is no guarantee that such a request will be approved by LAWA. The Security Systems Contractor must provide justification for all such requests and must indicate the cost savings to LAWA

4.28 IT Electronic and Security Systems
(Low Voltage)
28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS)
1767 Section 1.9(B)(10): Security Systems Contractor shall immediately bring this to the attention of LAWA so the area can be appropriately noted and documented with photographs where necessary. The Security Systems Contractor shall only proceed to work in such areas when given written approval to do so
4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1768
Section 1.10B(1)(c): The quantity of spare parts shall equal no less than 10% (or as approved by LAWA ITSPS) of the items provided and installed under this contract.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1769
Section 2.3 (B)(c)(4): In addition to any acceptance testing requirements specified elsewhere, the Subcontractor shall be fully tested and accepted, with test results recorded in individual test reports for LAWA review and acceptance. All ACAMS devices and equipment shall be tested. Test and acceptance reports shall include the following at a minimum:

- Environmental (temperature, humidity)
- Functional
- Electrical
- Mechanical
- Software
- Safety

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1769
Section 2.4: (1)(6): Add - Keypad-alarm reset

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1769
Section 2.4(1)(6)(d): Add - CAD, and/or Situator

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1770
Section 2.5 (B)(1): The installing Security Systems Contractor shall provide a Configuration Schedule (or Programming Sheet) detailing the parameters necessary to configure the devices. Security Contractor to work with LAWA ITSPS to define the format of the Configuration Schedule.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1771
Section 2.6(5)(d): Programming the elevator cab card reader to grant access to specific floor(s) via LOGS floor tracking

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1771
Section 2.6(5)(a): Add - The Contractor shall explore the LOGS features for a methodology to accomplish this in a simpler way via software configuration. The Contractor shall propose this methodology to LAWA for review and approval.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1771
Section 2.6(5)(a)(i): Add - micro controller DI board

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1771
Section 2.6(5)(a)(ii): Add - security control panel

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1771
Section 2.6(5)(a)(iii): Add - ACAMS system

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1772
Section 2.2 (L)(4): All added equipment shall be provided near the baggage portal on the airside to house the LNL-1320-01 reader board and necessary control relays. A Belden 9841 and Belden 5300FE cables shall be provided in conduit from the SJB to the IT Room. Refer to drawings.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1772
Section 2.3 (A)(1): The "LAWA ACAMS Design Guideline Schematics for Lenel OnGUARD Access Control System" document presents the hardware design guidelines schematics for all now LAWA access control portal installations (excluding Access Posts). The Security System Contractor must request from LAWA ITSPS the latest copy (current version 2.012/04) of this document prior to making bid, cost, and/or installation decisions. Deviations from these Design Guidelines Schematics due to technological obsolescence may be proposed to LAWA ITSPS by the Security Systems Contractor with justification and are subject to LAWA ITSPS written approval. All recommendations, requests for clarification and/or requests for additional guideline(s) must be submitted in writing by the Security Systems Contractor to LAWA ITSPS through the Request for Information (RFI) process.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1772
Section 2.3 (A)(3): The Contractor is responsible for procuring and furnishing to LAWA, Lenel OnGUARD card reader licenses for all new installations.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1772
Section 2.3 (A)(4): Prior to submitting cost proposals for any project(s), the Contractor shall check with LAWA ITSPS to determine the number of, and specification for, Lenel OnGUARD system Communication Servers to be purchased and furnished to LAWA to support the required quantity of controller panels.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1772
Section 2.3 (B): Change to Applications and Security Control Panel

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1773
Section 2.3 (B)(b): All items above for 16-door configuration apply with the following increased quantities: All quantities in terms 2.3-B-1-a-(i) through 2.3-B-1-a-(iv) shall each be doubled.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1774
Section 2.3 (B)(c): Remove Card Reader Interface Module specifications

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1774
Section 2.3 (D): Remove Input Interface Module specifications

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (E): Deletes Wiegand Interface Unit and identifies SJB Location

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (E)(3): Remove GE model WU 4 (no Substitutions)

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (F)(1): Remove Wall Mount requirements

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (F)(2): Remove 12VDC Power requirements

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (E): Change Card Reader Compatibility requirement to - Card Readers and Card Readers with Keypads shall be compatible with ICAO HiD Class issued identification and access control cards, and shall be compatible with HiD 13.56 Mhz Contactless Smart Card technologies, and must include the Open Supervised Device Protocol (OSDP) feature.

4.28 IT Electronic and Security Systems (Low Voltage) 28.13.00 - ACCESS CONTROL AND ALARM MONITORING SYSTEM (ACAMS) 1776
Section 2.3 (F): Change card reader requirement to - Protocol (OSDP) feature included (no substitutions) *The firmware shall support both HiD Class and PIV card formats

*HiD model R40 with Open Supervised Device Protocol (OSDP) feature included (no substitutions)
Section 2.3(F): Change Card Reader with Keypad requirement to - *HID model RK40 with Open Supervised Device Protocol (OSDP) feature included (no substitutions) no substitutions*
*The firmware shall support both HID iClass and PIN card formats
*Provide reader with terminal block terminations (not pigtail).

Section 2.3(H)(3): Add - Alarm Horns may require Indoor/Outdoor Back box: Cooper Wheelock, 10B-W

Section 2.3(K)(3): Displays for operator workstations shall Dell 27 Monitor, P2419H or approved equal.

Section 3.6(A)(2)(b)(1)(viii): Add requirement for Keypad-alarm reset, etc.

Section 3.8: Information regarding all equipment including model, nomenclature, serial number, function, location, recommended preventative maintenance schedule and other pertinent data will be stored in the CMMS database. Security Systems Contractor shall include in their Bid the cost for collecting and inputting this data for all systems and equipment provided by this Contract into this database. Prior to gathering information for the CMMS document, the Security Systems Contractor shall request from LAWA the latest fields to be populated in the CMMS documentation has been received, reviewed, revised/updated, and approved.
4.28 IT Electronic and Security Systems (Low Voltage)

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS

1818 Section 1.1(J) (6): Change interface with to "LAWA's Active Directory " instead of "LAWA's Identity Management"

1818 Section 1.1(J) (10): Add the following requirement:

Security Systems Contractor shall: Provide exact locations of the new security devices such as cameras and ACAMS doors on the map layouts to be imported into the VMS. Security Contractor is required to provide the exact GIS coordinates of every installed security device.

1822 Section 1.2(B) (4): Add the following requirement:

"4. The Security Systems Contractor or approved subcontractor shall be Genetec Security Center VMS and Dell Isilon VSS certified on the specific type of equipment being proposed for installation"

1823 Section 1.3(B) (9) (c,d,e): Addition of following items to the requirement:

b. Detailed calculation of the VMS servers and VSS storage sizing, capacity and performance.

c. Detailed report to include diagrams describing the proposed hardware and software's compliance to LAWA requirements.

d. Detailed calculations to demonstrate the proposed solution's performance to sustain 99.999% video storage and video replay capabilities.

1825 Section 1.3(D) (5): Add the following requirement:

"6. Security Systems Contractor shall submit a complete set of configuration data and engineering schedules that include but are not limited to  

rack layouts, server names, storage partitions, IP addresses, configuration data, shared folders, VMS/VSS configurations, and security and application hardening configurations. This information shall be complete in form to allow LAWA to rebid the VMS/VSS systems if needed. If the as-built work is not complete, the Security Systems Contractor will be so advised and shall complete the work as required."

1825 Section 1.4 and 1.5: Remove role of "Design Engineer" from all the items in this section.

1825 Section 1.6(A)(3): Change existing LAWA VMS/VSS to "LAWA Genetec Security Center and Dell Isilon storage" in the first sentence, and replace "LAWA designated CCTV maintenance contractor" to IT CCTV O&M contractor.

1826 Section 1.6(A)(5): Revise the requirement to the following:

1. The VMS Application Suite shall allow the user to monitor and playback video on a full screen, a map, or a layout page displaying at minimum of 25 simultaneous video streams.

2. The VMS Application Suite shall be modular and scalable to at least 10,000+ cameras.

3. Audio/Video Encoders – Axis Communications

4. Video Storage System – Dell EMC, Hopkinton, MA


6. Security Systems Contractor shall submit a complete set of configuration data and engineering schedules that include but are not limited to rack layouts, server names, storage partitions, IP addresses, configuration data, shared folders, VMS/VSS configurations, and security and application hardening configurations. This information shall be complete in form to allow LAWA to rebid the VMS/VSS systems if needed. If the as-built work is not complete, the Security Systems Contractor will be so advised and shall complete the work as required."

1826 Section 1.7(D-E): EQUIPMENT CERTIFICATION requirements revised as follows:

d. Detailed calculations to demonstrate the proposed solution's performance to sustain 99.999% video storage and video replay capabilities.

1828 Section 1.7(D-F): EQUIPMENT CERTIFICATION requirements revised as follows:

D. Major items of equipment that serve the same function must be the same make and model. Exact make and model is expected when provided by LAWA.

E. The proposed VMS/VSS equipment and its integration shall be fully certified by Genetec and Dell EMC. The Contractor shall provide turnkey system warranty through Genetec for the delivered VMS and VSS.

F. Equipment and materials installed shall be compatible in all respects with other items being furnished and with the existing LAWA Genetec Security Center VMS and VSS so that a complete and fully operational system will result. LAWA will not accept a standalone or incompatible VMS/VSS solution.

1828 Section 1.8(D): Warranty requirements removed and revised as follows:

D. Materials shall be covered by each equipment/software manufacturer's warranty.

1829 Section 2.1(D) (4): Add the following requirement:

Security Systems Contractor shall...

1829 Section 2.2(C) (1): Add the following items to the list of Security System Contractor:

1. Agrees to submit details of the design, schedule and cost of their initial proposal to substantiate their justification for the credits they are providing towards the proposed substitution. The information provided as part of this request for substitution shall be deemed reasonably acceptable by LAWA."

1829 Section 2.2(C) (4): Add the following sentence to the end of the paragraph:

"...The Security System Contractor is additionally liable to cover the redesign costs, if LAWA determines that the design as submitted has any deficiencies."

1829 Section 2.2(A): Addition to the beginning of this section:

Add the following sentences to the beginning of this section:

10. The VMS application shall support Direct Streaming of the video from cameras to the CCTV operator workstations and simultaneously to the VMS servers.

11. The VMS Application Suite shall allow the user to monitor and playback video on a full screen, a map, or a layout page displaying at minimum of 25 simultaneous video streams.

12. The user shall have the ability to monitor and playback video on a full screen, or on a camera layout page displaying a map. CCTV operator shall be able to open multiple video streams on the map.

14. The VMS shall allow user the ability to define private and/or public groups of tasks or camera layouts independent of the system administrator and have the ability to share those tasks with those who perform similar functions in his/her organization.

20. The VMS application shall provide extensive health monitoring capabilities for monitoring health of the cameras, VMS servers and VSS status.

21. The VMS equipment shall be modular and scalable to at least 10,000+ cameras.

22. The VMS application shall support all storage technologies including but not limited to NAS, SAN, DAS and Cloud.
4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1832  

Section 2.2(A) (23): Performance requirement revisions as follows:  

f. H. Remove "or 4CF" in the first sentence.  

j. Change "2.5 Mbps" to "5.5Mbps"  

o. Add the following sentence at the end of this item: "The VMS maps shall be Geo-referenced prior to addition of the new cameras."  

p. Add a revision to the following: "VMS shall include Video Management through the Directory Server and its associated roles. It shall run on Microsoft Operating server using Microsoft SQL Server."  

r. Change in the last sentence "30 days" to "30 days" for minimum recording requirements.  

u. Change "NVRs" to "VMS Servers" in every item in this section.  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1834  

Section 2.2(A) (23) (5): Remove the following requirements under this item:  

(5) Capability to switch from Multicast streaming to Unicast streaming entirely or individual segments of network as needed.  

p. The VMS shall support video streaming from the NVR or that directly from the camera or encoding devices."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1835  

Section 2.2(A) (23) (6): Add "cameras and encoder devices" in the first sentence.  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1835  

Section 2.2(A) (23) (5) (15): Add as a second sentence the following:  

"This redundancy shall be implemented for all components of the VMS including but not limited to Directory servers, video archiving, and redirectors."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1835  

Section 2.2(A) (23) (5) (16): Add the following:  

"The VMS redundancy shall consist of a minimum one [1] failover video archiver for every four (4) primary video archivers."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1835  

Section 2.2(B): Add requirements for VMS hardware:  

"VMS hardware shall be Genetec StreamVault SV-4000 or SV-7000 series servers. Contractor shall provide Genetec manufacturer's turn-key hardware warranty for a minimum of 5 years. The Security Systems Contractor shall submit for LAWA's approval the itemized equipment list to include network switches and their usage in their deployment of the VMS hardware."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1836  

Section 2.2(C): Add VMS Software requirements:  

"The new VMS software shall be Genetec Security Center 5.9 or better. Contractor is required to submit the software version to LAWA's approval prior to procurement."

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1835  

Section 2.2(D): Add VMS Configuration:  

"Security Systems Contractor shall identify all of Genetec Security Center 5.9 server roles, itemize and map the proposed server roles for each proposed VMS hardware, and describe their usage to support the overall proposed VMS configuration. This description shall include but not be limited to explicit number of cameras per server, storage partitions per server, primary and failover archiver configurations, and video streaming configuration."

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1836  

Section 2.2(F): Change minimum requirements to the VMS Viewing Workstations model HP Z240 to Dell Precision 3640 Tower and specifications in the items (a) as following:  

- Processor: Intel Core i7-10700 8 core Processor, (2,9 GHz up to 4.8 GHz with Turbo Boost, 16MB Cache,  
- Hard drive: 256GB PCIe NVMe Class 40 M.2 SSD  
- Memory storage: DDR4-2933 8GB UDIMM Non-ECC Memory. 32 GB recommended.  
- Video card: Nvidia Quadro P620, 2GB, 4 mDP to DP adapter.  
- Display: 9.5 mm Slim DVI-D Video Optical Disc Drive  
- Dual monitors supporting at least 1920x1080 resolution with VGA, HDMI and display port options. LAWA standard is currently NEC MultiSync E241.  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1836  

Section 2.2(H): Add requirement for VSI Software:  

"The Video Storage System hardware shall be Genetec StreamVault SVS-7010-E NAS EMC Isilon. Security Systems Contractor shall provide a fully operational VSI with minimum 3 years warranty. The proposed VSI system shall be compatible with the existing LAWA Genetec SVS-7010-E NAS EMC Isilon VSS. Security Systems Contractor shall submit for LAWA's approval the itemized storage equipment list to include internal and external storage switches and their usage in deployment of the storage system."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1836  

Section 2.4(D) and (E): Add requirement for VSS Internal and external switches:  

D. VSS Internal Switch: The Video Storage System internal switches shall be Dell 2910i or better. Security Systems Contractor shall submit a Request for Information to LAWA to obtain the latest compatible model prior to purchase.  

E. VSS External Switch: The Video Storage System external switches shall be Cisco Catalyst 9500 or better. Security Systems Contractor shall submit a Request for Information to LAWA to obtain the latest compatible model prior to purchase.  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1837  

Section 2.4(J): Add requirement for VSS Software:  

"Shall include but not be limited to . Dell OneFS 8.2.2, SmartQuota, and SmartConnect. Security Systems Contractor must submit for LAWA's approval all storage system software versions prior to procurement."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1837  

Section 2.4(K): Remove the following requirement for VSS:  

"Storage technology shall be compatible and consistent with the current LAWA IT supported NAS video storage system."

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1837  

Section 2.4(L): Change to the following requirement for VSS:  

"Disk drives shall have the highest density with no less than 10 Terabytes (TB) per disk and a minimum rotational speed of 7200 RPM. SSD drives or higher speeds are preferable as required by LAWA."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1837  

Section 2.4(M): Change to the following requirement for VSS:  

"Storage solution must have the ability to mix and match on premise and cloud technology and manage all data as one system."  

4.28 IT Electronic and Security Systems (Low Voltage)  

SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  

1838  

Section 2.4(N): Change to the following requirement for VSS:  

"Include redundant power supplies."
4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1838 Section 2.4(H): Change to the following requirement for VSS  
Leverage both software-based and hardware-based RAID with RAID 5 double parity and hot spares.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1838 Section 2.4(H): Change to the following requirement for VSS  
Include the Windows Active Directory integration for integration with LAWA Domain to enhance the security of the storage media.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1838 Section 2.5(C): Add the following requirement for Encoders.  
Currently LAWA only accepts the AXIS Q74 series video encoders and Siqura A-80 Audio encoders. The specific composition and chassis model of the device depends on the number of required ports.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1839 Section 2.5(G): Remove table with old Encoder models

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1839 Section 2.6(B): Add requirement for Video Decoders:  
The Video Decoder shall be Genetec Security Center 5.9 compatible

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1841 Section 2.6(F): Add requirement for the Network Switches  
For internal Dell/Intel communications, the Security Systems Contractor shall provide Dell 29100 switches along with all supporting SFP modules and cables as part of the NAS storage configuration.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1841 Section 2.6(G): Add requirement for the Network Switches  
For external communication between the four different segments outlined in line item A above, the contractor shall propose appropriate layer 2 switches from the LAWA approved list. Non-Cisco switches will not be accepted for the external communication switches.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1841 Section 2.6(H): Add requirement for the Network Switches  
LAWA will perform Layer 3 switch configuration.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1841 Section 2.7(J): Add requirement for the Wire & Cable  
LAWA has specific requirements for the cables used in their datacenter. Contractor is required to coordinate with LAWA ITMT to obtain the exact size and color of cables required for the VMS/VSS deployment.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1841 Section 2.8(B): Add requirement for the System Security  
All components of the VMS and VSS shall be integrated with LAWA infrastructure which include but are not limited to Active Directory, Anti-Virus applications, and various security monitoring tools as directed by LAWA.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1843 Section 3.2(C): Remove the following requirement:  
"...During the deployment phase the Security Systems Contractor shall provide Warranty and Operations and Maintenance support. Upon system acceptance by LAWA, the Security Systems Contractor shall ensure LAWA CCTV Maintenance Provider will maintain the new devices and software for a minimum of two (2) years from date of acceptance at no additional cost to LAWA."

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1843 Section 3.2(D): Add the following sentences at the end of this requirement:  
"...The installation and configuration of all Layer 2 switches are the responsibility of the Security Systems Contractor. The configuration shall be performed by a Cisco certified engineer after approval of the proposed configuration templates by LAWA.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1844 Section 3.2(Q): Add the following requirement for design package:  
Security System Contractor may only proceed with the procurement and installation of the VMS/VSS equipment upon LAWA approval of the above mentioned submittals.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1844 Section 3.2(R): Add the following requirement:  
The video decoder shall be Genetec Security Center 5.9 compatible.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1844 Section 3.2(T): Add the following requirement for design package:  
LAWA has specific requirements for the cables used in their datacenter. Contractor is required to coordinate with LAWA ITMT to obtain the exact size and color of cables required for the VMS/VSS deployment.

4.28 IT Electronic and Security Systems (Low Voltage)  
SECTION 28 23 13 - VIDEO SURVEILLANCE, STORAGE, RECORDING AND MANAGEMENT SYSTEMS  
1844 Section 3.2(U): Add the following requirement:  
Security System Contractor may only proceed with the procurement and installation of the VMS/VSS equipment upon LAWA approval of the above mentioned submittals.

9.02 DCH Milestones matrix  
7 of 18 Clarify electrical design milestone information required at each percentage of project delivery (P0, 5%, 30%, 60%, 90%, 100%, deferred submittals)

9.03 LAWA Construction Safety Program Requirements  
21 of 88 Revised contact information

9.11 LAWA Survey Standards  
Existing Information, relocated to its own section.

9.15 LAX Tenant Signage Standards  
Deleted

10.01 (A) How to Use the BIM Standards  
Deleted

10.01 (B) VOL 1 LAWA Survey Standards  
Renamed 'LAWA Survey Standards’  
Move to DCH Sec 9  
Removed unnecessary language

10.01 (B) VOL 2 LAWA BIM Requirements  
Renamed 'LAWA BIM Standards’  
Removed unnecessary language  
Improved language based on lessons learned

10.01 (B) VOL 3 LAWA RPPP Template  
Renamed 'LAWA RPPP Template’  
Move to LAWA BIM Library

10.01 (C) LAX Survey Control Network  
Moved to DCH Sec 9

10.01 (D) YNY Survey Control Network  
Moved to DCH Sec 9