

AMENDMENT NO. THREE  
TO AGREEMENT BETWEEN CITY OF GLENDALE  
AND MOTOROLA SOLUTIONS, INC.

(Contract No. C19-0918)

This Amendment No. Three (“Amendment”) to City Contract No. C19-0918 (“Agreement”) is made this \_\_\_\_\_ day of \_\_\_\_\_, 2022, (“Effective Date”), by and between the City of Glendale (“City”) and Motorola Solutions, Inc. (“Motorola”), collectively as the “Parties”.

RECITALS

- A. City and Motorola entered into that certain Agreement dated September 26, 2019 ("Contract"), for the purpose of providing PI CAD & RMS, COMMAND CENTRAL JAIL, MAINTENANCE, COMMAND CENTRAL AW ARE SUBSCRIPTION AND VIGILANT LPR CAMERAS.
- B. City and Motorola entered into Amendment Number One, dated April 13, 2021, for the purpose of expanding the Scope of Work to include Citywide Camera Replacement as set forth in Exhibit A attached thereto.
- C. City and Motorola entered into Amendment Number Two, dated December 14, 2021, to amend the Scope of Work to include the purchase of goods and services related to Citywide Access Control Management as contained in Motorola’s November 5, 2021, proposal attached thereto as Exhibit A and to increase the contract’s not to exceed amount.
- D. Pursuant to Section 3.5 of the Agreement that permits the City to make additional purchases of Equipment, Software, and services using the Agreement as the underlying agreement, the Customer intends to use its rights under Section 3.5 to purchase additional equipment and software, agreeing that the terms and conditions of the Agreement will apply to this new transaction.
- E. Parties wish to modify and amend the Agreement subject to and strictly in accordance with the terms of this Amendment.
- F. Pursuant to Section 17.12 of the Agreement, the Parties mutually agree to amend the Agreement to purchase the scope of work considered in the proposal dated September 6, 2022, which is attached and incorporated into this Amendment Three as Exhibit A.

AGREEMENT

IN CONSIDERATION of the foregoing recitals and representations and the mutual covenants and agreements and conditions in this Amendment, the Parties agree as follows:

1. Citywide Camera Replacement Phase II in the amount of \$2,749,440.09 is hereby purchased by the City as more fully described in the attached proposal incorporated herein as Exhibit A.
2. The compensation available under this Agreement (C19-0918) is increased from \$3,529,644.69 to an amount not to exceed \$6,279,089.38.
3. All other Terms and Conditions of the above referenced Contract not specifically amended herein shall be incorporated by reference in their entirety and shall remain in full force and effect. If there are any inconsistencies between the provisions of Amendment One, and the provisions of the Contract, the provisions of this Amendment will prevail.
4. Facsimile/Electronic Signature. A signature sent by facsimile or electronically shall have the same legal effect as if the original has been signed in person. This provision will apply to all documents associated with this Agreement.

**MOTOROLA SOLUTIONS, INC.**

**CITY OF GLENDALE, AZ**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Julie K. Bower, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Michael D. Bailey, City Attorney

**EXHIBIT A**  
**City of Glendale Citywide Camera Replacement Phase II**  
**September 6, 2022**



MOTOROLA SOLUTIONS

# CITY OF GLENDALE

CITYWIDE CAMERA REPLACEMENT PHASE II

SEPTEMBER 6, 2022

## PHASE II

12:38:17 PM



QVIGILON

QVIGILON Access Control Manager

Reports Custom Reports

SQL Reporting Wizard

Device ID	Device Name	Device Type	Device Location	Device Status	Device IP
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The design, technical, pricing, and other information ("Information") furnished with this submission is proprietary and/or trade secret information of Motorola Solutions, Inc. ("Motorola Solutions") and is submitted with the restriction that it is to be used for evaluation purposes only. To the fullest extent allowed by applicable law, the Information is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the Information without the express written permission of Motorola Solutions.

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USA

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Fax + 1 847 538 6020

September 6, 2022

Rick St. John  
City of Glendale City Hall  
5850 W Glendale Ave,  
Glendale, AZ 85301

Subject: Motorola Offer for Sale Proposal for Glendale Avigilon Project – Phase II

Mr. St. John,

Motorola Solutions, Inc (“Motorola”) is pleased to present City of Glendale (“Glendale”) the enclosed offer for sale proposal for the purchase of the following:

- Avigilon Cameras, Servers, & VMS for 14 City of Glendale Facilities
- Motorola Project Management
- Avigilon Integration into Glendale’s Real Time Crime Center (RTCC)
- Warranty, On Site Support, & Software Updates as they become available for 1 Yr.

This proposal pricing is pursuant the H-GAC (Houston-Galveston Area Council) RA05-21 Radio Communications/Emergency Response Equipment and to the agreement between the City of Glendale and Motorola, C 19-0918, previously entered into and effective September 26, 2019 (the “Contract”). Section 3.5 of the Contract permits Glendale to make additional purchases of Equipment, Software, and services using the Contract as the underlying agreement. This proposal is based on the assumption that the Customer will use its rights under Section 3.5 for the proposed transaction(s) and that the terms and conditions of the Contract apply. To do so, Glendale may accept this offer by returning executed copies of Amendment Number Three to memorialize the purchase of products and services as described in Motorola’s proposal. The proposal shall remain valid until September 29, 2022.

Additionally, as part of our proposal and commitments depending on the payment milestones agreed upon, Motorola shall make partial shipments of equipment and will request payment upon shipment of such equipment. In addition, Motorola shall invoice for installations completed on a site-by-site basis or when professional services are completed, when applicable.

We thank you for the opportunity to provide “best in class” solutions. We look forward to continuing our relationship and implementing the project with the City of Glendale. Please direct any questions to Suzy Millard, Sr. Account Manager, at 480-646-7406.

Sincerely,  
MOTOROLA SOLUTIONS, INC.

A handwritten signature in blue ink that reads "Carrie Hemmen".

Carrie Hemmen  
MSSSI Vice President & Director Sales

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SECTION 1

# SYSTEM DESCRIPTION

## 1.1 AVIGILON VIDEO SOLUTION OVERVIEW

Motorola Solutions Inc. (“Motorola”) is pleased to propose Phase II of the Citywide Camera Replacement solution to the City of Glendale (“COG”). The proposed Avigilon Video Security and Analytics Solution consists of the Avigilon Control Center (ACC) version 7 video management system (VMS), video infrastructure, 199 cameras and software licenses across fourteen unique sites.

The solution will integrate the new Avigilon Control Center VMS and new cameras into COG’s existing CommandCentral Aware system (RTCC) to provide live and recorded video surveillance, including events and alarm notifications.

Avigilon equipment deployed across the thirteen proposed sites will include:

- Avigilon Control Center (ACC) 7. Avigilon’s latest and most advanced version of ACC™ video management software. Designed to bring the right information to you so that you can take action. ACC 7 provides an easy-to-use, AI-enabled user interface to help ensure critical events do not go unnoticed
- Avigilon’s Next Generation Analytics delivers improved accuracy in both perimeter protection and in crowded, indoor environments:
  - AI Powered Notifications and Events
  - Expanded Object Classification
  - Improved Analytic Event Generation and Appearance Search Results
  - Appearance Search and Unusual Motion and Activity Detection
  - Advanced Pattern-based Analytics
  - Teach-by-example Technology
  - Powerful Forensics
  - Actionable Data
  - Focus of Attention
- Avigilon’s fifth-generation Network Video Recorders (NVRs) offering our highest capacity, retention and throughput to provide secure, reliable and scalable platforms for high-performance security solutions. Reliable storage with RAID-configured redundancy offers a highly available and resilient system that protects your data. Our PRM and STD models include reliable hard drives with RAID 6 redundancy. Operating systems on a redundant array of Solid-State Drives designed for greater reliability and speed.
- Avigilon’s HD Video Appliances (HDVAs) designed to help shorten installation time, simplify deployment and reduce the cost and complexity of your security system. All Avigilon HDVAs come pre-loaded with ACC software; the proposed Pro 24-Port and 16-Port models feature advanced functionalities including replaceable power supplies and video drives, larger storage capacities and increased throughput.
- Avigilon’s high-resolution monitoring stations with support for two monitors pre-loaded with ACC Client software, and featuring a maximum resolution of 3840 x 2160 (4K) per monitor(s).
- Avigilon Cameras and Sensors

- H5A Camera Line - presented in dome and bullet form factors, and featuring our next-generation video analytics technology to help focus your attention on potentially critical events, providing a smarter and more powerful video security solution from the moment it is deployed.
- H5SL Camera Line - presented in dome and bullet form factors, delivering a versatile and cost-effective security solution, uses AI Unusual Motion Detection to notify you of unusual events that might otherwise have been missed, offering increased situational awareness and helping you to effectively monitor more cameras.
- H5 Fisheye Camera Line - delivers a complete, high-resolution, 360-degree panoramic view with no blind spots.
- H4 Multisensor Camera Line - combines Avigilon self-learning video analytics with exceptional coverage, featuring three or four individually-adjustable camera sensors that can be positioned to monitor virtually any area. The multisensor only requires one camera channel license, delivering more actionable data with increased ROI.
- H5A PTZ Camera - brings wide area coverage and long range detail with up to 36x zoom for superior situational awareness. Provides high-quality, evidentiary images and 360° views for you to monitor critical infrastructure.
- H4 Video Intercom - integrates a 3 MP fisheye camera with a high-performance intercom, featuring echo-canceling and noise reduction technologies, for clear two-way communication. This secured entry system enables operators to quickly and easily identify and talk with a visitor before remotely granting access.
- KBC Networks Point-to-Point Wireless Ethernet Transmission Connectivity to provide for and connect video surveillance solutions at four sites.
  - High throughput, Gigabit Wireless Transmission system that operates in the license-free, 5GHz band providing an Ethernet channel up to 1.3Gbps aggregate.
    - ◆ FS152
    - ◆ FS157
    - ◆ Rose Lane Youth Center
    - ◆ Sahuaro Ranch Athletic Park
- Warranty & Extended Warranties - Avigilon offers the most comprehensive warranties in the industry. Warranties listed below are provided as part of this proposal. See Avigilon Limited Warranty & Product Policies for complete details, exceptions and exclusions.
  - Avigilon Video Infrastructure - All NVR's are backed by lifetime 24/7 Avigilon telephone technical support.
  - NVR5 series NVR's include manufacturer's five (5) year limited warranty with Next Business Day Dell-on-Site Response.
    - ◆ Manufacturer's Extended Warranty for the NVR5-series upgrades response time to 4 hour mission critical Dell-on-Site for duration of warranty.
  - Avigilon Video Infrastructure: NVR5 series, HD Appliances and Workstations include manufacturer's three (3) year limited warranty and advance replacement.
    - ◆ Manufacturer's Extended Warranty for the NVR5 series, HD Appliances and Workstations extends warranty for 2 more years, total 5 years
  - Avigilon Monitors include manufacturer's three (3) year limited warranty.
  - Avigilon Cameras and Sensors:
    - ◆ H5A, H5F, H5SL, H5M, H6M Camera Lines: manufacturer's five (5) year limited warranty and advance replacement.
    - ◆ H5A PTZ Cameras: manufacturer's five (5) year limited warranty and advance replacement.
    - ◆ H4VI Cameras: manufacturer's three (3) year limited warranty and advance replacement.

- One (1) Year Parts and Labor Warranty to be provided by the installation partner, Climatec LLC of Phoenix, AZ.
- Video Retention - Avigilon's HD Video Infrastructure delivers secure, reliable, and scalable storage for video recorded from connected cameras. Video storage will be provided by the proposed hardware utilizing the Avigilon HD Video Infrastructure line. The video infrastructure units will provide sufficient onboard storage to deliver ~30-days of recorded video each. \*Multiple factors may affect actual video quality and retention time. Storage calculations for each site are based upon known information at time of walkthrough, and are subject to and dependent on scene activity and retention policies.
- Smart Assurance Plan (5 year) - The Avigilon Smart Assurance Plan offers optimal protection for your Avigilon Control Center (ACC) video management software in the form of one and multi-year upgrade plans, ensuring you always have timely access to the newest capabilities and services over the life of your plan.
  - Future-proof your Avigilon video security system with upgrades to new ACC releases for the life of your plan. Have peace of mind that your system is fully operational from an easy-to-view and actionable health dashboard.
  - The Smart Assurance Plan offers a direct, hassle-free path with eligibility to the latest ACC software version so you can upgrade when you are ready.
  - Each plan includes an Advanced System Health subscription at no additional charge, allowing you to remotely manage, maintain and update sites and devices the moment new ACC software and device firmware becomes available.
  - Multi-year plans offer predictable costs with no surprises over the life of your plan, reducing budgetary challenges for your security projects.

For the complete equipment list to support the proposed system design for each location, please refer to Section 2, Equipment List.

## 1.2 AVIGILON VIDEO SOLUTION PRODUCTS DESCRIPTION

### 1.2.1 Avigilon Control Center (ACC) Version 7

Avigilon Control Center (ACC) software is an easy-to-use video management software that is designed to optimize the way security professionals manage and interact with high-definition video. It efficiently captures and stores HD video, while intelligently managing bandwidth and storage using our patented High Definition Stream Management (HDSM) technology. Version 7 of the software is an entirely new way to monitor live video through its Focus of Attention interface, enabling operators to see at a glance what is happening across the entire site and more effectively triage and respond to the most important events.

### Self-Learning Video Analytics

ACC video management software enables analytics events and alarms to be viewed and searched through an intuitive user interface. Real-time events and forensic capabilities detect and notify scene changes and rules violations.



### Focus of Attention Interface

Redefining the experience for monitoring live video, Focus of Attention helps increase operator effectiveness by providing an overview of events occurring across all cameras in the site, including Avigilon analytic events, face watch list matches, Unusual Motion Detection (UMD) events, motion events, and alarms. Operators can quickly triage the most important events by reviewing the associated live and recorded video to determine if a response is required.



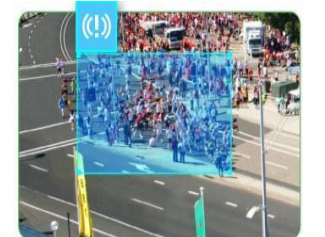
### Avigilon Appearance Search Technology

A sophisticated AI search engine that enables investigators to sort through hours of recorded video with ease and quickly locate a person or vehicle of interest across an entire site. Search for a person or vehicle of interest by entering a physical description, or by finding an example in recorded video.



### Unusual Motion Detection

Advanced AI technology that brings a new level of automation to video security. Without any predefined rules, UMD technology continuously learns what typical activity in a scene looks like, and then detects and records motion anomalies.



### Facial Recognition Technology

ACC™ 7 software incorporates AI-powered facial recognition technology to help organizations accelerate response times by identifying people of interest

Through the new “appearance alerts” capability, people of interest are identified based on a secure, controlled watch list created and maintained by authorized users at the organization. Avigilon cameras licensed for facial recognition will seek to identify potential matches based on the watch list and if a match is found, the user is alerted within the ACC software, helping security personnel quickly determine if further action is necessary.



### Preinstalled on Avigilon Recorders and Appliances

ACC software is pre-installed and configured on Avigilon HD Video Appliances, Network Video Recorders (NVRs), NVR Workstations, ACC ES Recorders, ACC ES Analytics Appliances, ACC ES 8-Port Appliances and the H4ES camera line. You can also install the stand-alone ACC software to meet the needs of a wide variety of projects. Our NVRs come pre- installed with the NVR Analytics Kit to enable our patented Avigilon Appearance Search technology.



Additional Product Detail and Spec Sheets can be found in Appendix B – Product Literature

## 1.2.2 Avigilon Control Center Advanced Features

-  **HDSM™ Technology**  
Efficiently compresses and preserves image quality while intelligently managing HD image transmission throughout your Avigilon system — sending only the requested portions of captured images to operator workstations.
-  **HDSM SmartCodec™ Technology Support**  
Automatically optimizes compression levels for regions in a scene, to maximize bandwidth while still maintaining image quality.
-  **Avigilon Appearance Search Technology**  
Quickly search recorded video to find instances of a person or vehicle across all sites using cameras with Avigilon self-learning analytics. Search for a person by physical description, including clothing color, hair color, gender and age group. Search for a vehicle by physical description, including color and category - car, truck, bus, bicycle, and motorcycle.
-  **Facial Recognition Technology**  
AI-powered facial recognition algorithms notify operators when a person of interest returns to a facility. Add a person to a face watch list from recorded video or Avigilon Appearance Search results. Appearance alerts display in the Focus of Attention interface.
-  **Intelligent Search**  
Powerful search tools enable you to quickly search recorded video for motion, the presence of classified objects (people or vehicles), background changes in the scene (thumbnail search), and for events.
-  **Simple Camera and Server Installation**  
Plug-and-play capabilities for NVRs and cameras that automatically identify themselves on the network, without manual configuration or searching.
-  **License Plate Recognition (LPR) Analytics**  
Second generation LPR analytics engine with easy configuration and improved accuracy for faster security response. Multiple license watch lists can trigger unique ACC rules when detecting a match.
-  **ACM-ACC Interoperability**  
The Access Control Manager (ACM) system receives, processes, and acts on ACM™ door events, hardware input events, and access grants, enabling operators to unlock access doors directly from a camera view. Identity Verification enables users to see ACM system credentials dynamically displayed with ACC camera views. Identity Search enables users to visually verify access events, and initiate an Avigilon Appearance Search across the entire site for the same person.
-  **Alarm Escalation**  
Create complete end-to-end workflows for monitoring, assigning, and acknowledging alarms.
-  **ACC Mobile Software**  
Push alarm notifications, live and recorded video, audio talkdown, self-learning video analytics overlays, digital output triggers, and PTZ control for Android™ and iOS mobile devices.
-  **Avigilon Blue™ Web Client**  
Securely stream live and recorded video from firewall-protected ACC sites using a Chrome or Safari web browser. With no client installation required, this solution leverages the Avigilon Blue service to support secure peer-to-peer connections to ACC servers.
-  **Video Archive**  
Retain and manage large amounts of video for on-demand retrieval and review. Extend your storage beyond NVRs using the Avigilon Video Archive for reliable and scalable storage.
-  **Detailed Management, Monitoring, and Reporting of System Status and Security**  
Detailed logs of storage, network, and overall system status to help ensure the highest possible system uptime for critical applications.
-  **Point-of-Sale Transaction Engine**  
Link HD security recorded video (viewed instantly) with transaction data to address compliance requirements and help reduce shrinkage and theft.
-  **Scalable Integration with External Systems**  
Distributed architecture features .NET-based and REST-based APIs that can easily be integrated with other systems, such as access control and building management.
-  **ONVIF® Profile S, T and G Compliant VMS**  
Ensures interoperability between IP based ONVIF conformant security devices regardless of manufacturer. Allows video recovery from SD cards installed in Profile G cameras in case of network failure.
-  **Unusual Motion Detection**  
UMD technology enables fast video search and is designed to reduce hours of work to minutes by narrowing potentially thousands of motion events to a handful. This allows operators to focus their attention on recorded video needing further investigation.
-  **Light and Dark UI Themes**  
Select between light and dark user interface themes to make the software easier to view in environments with different lighting conditions.

## 1.3 COMMANDCENTRAL AWARE (RTCC)-AVIGILON INTEGRATION

Motorola Solutions' CommandCentral Aware solution combines disparate systems and data into an accessible interface. This single interface offers command centers a complete operating picture to support field personnel in real time. CommandCentral Aware unifies data from mapping, correlated event monitoring, analytics, and communications. This interface streamlines public safety workflows and viewpoints, enabling users to access and act on critical information.

Glendale can increase the value of current investments by connecting CommandCentral Aware to Avigilon ACC. Users can communicate with confidence, knowing their information is hosted in the highly secure Microsoft Azure cloud.

### Designated Entities

The entities participating in the CommandCentral Aware solution are:

#### Glendale Arizona Police Department

#### Application Software and System Components

This CommandCentral Aware solution includes the following elements add-on:

Avigilon Video (ACC) Video Analytics and LPR Integration.

### 1.3.1 Video Management System Component Descriptions

As part of CommandCentral Aware, the Video View module consumes video content from a variety of Video Management Systems (live and recorded, fixed and mobile).

The Video View module can also consume video analytics of automated license plate recognition, facial recognition, and object detection. These capabilities refine video feeds to accurately assess detail that the eye may not see, further enhancing the users experience within CommandCentral Aware. Component configuration within CommandCentral Aware allows for specific use case definition expanding automated intelligence into the application via:

**Workflow Configuration** – Associate related data from different systems to get a comprehensive view of an incident or threat. Display nearby video sources based on CAD incident, sensor alarms, and provided third-party data alerts.

**Real-Time Video Streaming** – Patrol the community or view an event in seconds by accessing up to 16 cameras simultaneously from video feeds via VMS. Users can reference the video source, date, time, and location, as well as customize camera groups for quicker access to particular locations.

**Camera Field of View** – Define FOV and view on the map display. Users can toggle cameras off and on that may or may not be pointed in the direction of the incident.

**Video Camera Audit Log** – Capture user interactions and record them in a log.

#### Avigilon Control Center (ACC) & Video Analytics

The Avigilon Control Center (ACC) uses self-learning and next generation analytics to provide effective monitoring and proactive, real-time response for security personnel. ACC



combines an intuitive interface with advanced artificial intelligence (AI) search technology for a full-featured integration with CommandCentral Aware.

This ACC integration includes the following:

- **Advanced Pattern-Based Analytics** – Avigilon advanced video pattern detection technology accurately recognizes the movements of people and vehicles while ignoring motion not relevant to a scene. The system’s self-learning ability reduces false positives and helps make alerts more meaningful.
- **Teach-by-Example Technology** – Avigilon teach-by-example object classifier technology allows users to provide feedback about the accuracy of alarm events generated by Avigilon devices. Rather than decreasing analytics sensitivity to reduce false alarms, the feedback trains devices to improve the accuracy of the analytics used to determine which alarms are real and which are false. This impacts a low false-positive alarm rate. Over time, the system learns the scene and is able to prioritize important events based on user feedback. This increases sensitivity to conditions that are of concern while reducing false alarms to keep the focus on what matters.
- **Avigilon Video Analytics Alerts Integration** – Avigilon ACC allow video analytics to send alerts to CommandCentral Aware. These analytics include object detection, motion detection, path crossed, and directional pattern changes.

The ACC rules engine enables users to selectively apply analytics-based events as alarms and rule triggers. These rules offer immediate notifications for suspicious activities to help CommandCentral Aware users monitor and respond more efficiently.

The Avigilon to CommandCentral Aware connector integrates the results of the rules engine combined with video from the Avigilon VMS. The targeted video feed is displayed in response to user interaction and pre-defined scenarios based on a customizable rule set. Users can configure specific categories of events, such as CAD incidents, LPR alarms, or other alert reporting systems integrated into CommandCentral Aware, in relation to analytics to trigger video feeds. These real-time events and forensic capabilities detect and notify scene changes, missing objects, and rules violations. In addition to the live video and analytics, the connector supplies operator’s video display tools that control pan, tilt, zoom (PTZ) cameras, and playback of recorded video.

The following is a current list of Avigilon Control Center (ACC) video analytics features for object detection and classification for live or forensic events that enhance the common operating picture and situational awareness capabilities of CommandCentral Aware. Added processing power enables the tracking and classification of over 50 objects. Previous analytics classified objects only when they were moving, now objects are additionally classified if they remain stationary.

Avigilon Analytics Rules for ACC	Analytics Rules Description (Objects are Classified as Person, Vehicle, Car, Truck, Bus, Motorcycle or Bicycle)
Objects in Area	The event is triggered when the selected object type moves into a specified region of interest.
Object Loitering	The event is triggered when the selected object type stays within a specified region of interest for an extended amount of time which is configured.
Objects Crossing Beam	The event is triggered when an Object or a specified number of Objects have crossed the directional beam that has been configured over the camera’s field of view. The beam can be unidirectional or bidirectional.

Avigilon Analytics Rules for ACC	Analytics Rules Description (Objects are Classified as Person, Vehicle, Car, Truck, Bus, Motorcycle or Bicycle)
Object Appears of Enters Area	The event is triggered by each object that enters the specified region of interest.
Object Not Present in Area	The event is triggered when no objects are present in the specified region of interest.
Objects Enter Area	The event is triggered when the specified number of objects have entered the specified region of interest.
Objects Leave Area	The event is triggered when the specified number of objects has left a specified region of interest region of interest.
Object Stops In Area	The event is triggered when an object in a specified region of interest stops moving for the specified threshold time.
Direction violated	The event is triggered when an object moves in the prohibited direction of travel.
Camera tampering	The event is triggered due to sudden scene changes.



SECTION 2

# EQUIPMENT LIST

Equipment List is included on the pages that follow.



Nomenclature	Description	Project Total Units	Fire Resource Building	FS151	FS152	FS153	FS154	FS156	FS157	FS159	GRPSTC	Landfill	O'Neil Rec Center	Rose Lane Youth Center	Sahuaro Ranch Athletic Park	Sine Building
<b>SERVERS/LICENSES</b>																
ACC-ENT-SMART-5YR	ACC Enterprise Smart Plan; 5 year	199	11	7	9	5	7	7	11	5	50	28	13	13	20	13
ACC-USB-JOY	Programmable USB Surveillance Joystick for controlling digital and conventional PTZ within Avigilon Control Center	1													1	
ACC7-ENT	ACC 7 Enterprise Edition camera license	199	11	7	9	5	7	7	11	5	50	28	13	13	20	13
NVR4X-STD-48TB-S16-NA	NVR4X Standard 48TB 2U Rack Mnt; Windows Server 2016; NA	1												1		
NVR5-PRM-160TB-S19-NA	NVR5 PRM 160TB 2U Rack Mnt; WS19 NA	1									1					
NVR5-PRM-96TB-S19-NA	NVR5 PRM 96TB 2U Rack Mnt; WS19 NA	1													1	
NVR5-PRM1-WARR-5Y4HMC-EDU	WARR;UPG 5Y4HMC; 96-160TB;NVR5 PRM;EDU	1									1					
NVR5-SFPPLUS-DA	KIT;10G SFP+ SR DA;NVR5 STD/PRM	30	2	2	2	2	2	2	2	2	2	4	2	2	2	2
NVR5-STD-16TB-S19-NA	NVR5 STD 16TB 2U Rack Mnt; WS19 NA	1										1				
NVR5-STD-32TB-S19-NA	NVR5 STD 32TB 2U Rack Mnt; WS19 NA	6	1		1	1				1		1				1
NVR5-STD-48TB-S19-NA	NVR5 STD 48TB 2U Rack Mnt; WS19 NA	5		1			1	1	1				1			
NVR5-STD-WARR-5Y4HMC	WARRANTY;UPG to 4HR; NVR5 STD	14	1	1	1	1	1	1	1	1		2	1	1	1	1
<b>WORKSTATION</b>																
MHD24-G2-NA	Monitor; 24" LCD HD; WUXGA	24	1	1	1	1	1	1	1	1	4	4	2	2	2	2
Monitor Wall Mount	Mount	24	1	1	1	1	1	1	1	1	4	4	2	2	2	2
RM5-WKS-WARR-EXTENED-2YR	2 Year Extended Warranty for RM5-WKS	15	1	1	1	1	1	1	1	1	1	2	1	1	1	1
RM6-WKS-2MN-NA	Remote Monitoring Workstation; 2 Monitors; NA	14	1	1	1	1	1	1	1	1		2	1	1	1	1
RM6-WKS-4MN-NA	Remote Monitoring Workstation; 4 Monitors; NA	1									1					
<b>CAMERAS/MOUNTS</b>																
10.0C-H5DH-DO1-IR	2x 5MP H5A Dual Head Camera. Outdoor camera with built-in IR	1									1					
12.0W-H5A-FE-DC1	12.0 MP; Fisheye In-ceiling Camera; Day/Night; WDR; 1.6mm f/2.0; Next-Generation Analytics	5									1	1		3		
2.0C-H5A-RGDPTZ-DP36	Avigilon H5A Rugged PTZ 2MP	1													1	
24C-H4A-3MH-270	3x 8 MP; WDR; LightCatcher; 4mm; Camera Only	56	4	2	4	3	1	1	4	3	15	4	4	5	5	1
32C-H4A-4MH-360	4x 8 MP; WDR; LightCatcher; 4mm; Camera Only	29		2	1		4	4	2		7				9	
4.0C-H5A-DC1-IR	4.0 MP WDR; LightCatcher; Day/Night; In-Ceiling Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	18									7	9		2		
4.0C-H5A-DO1-IR	4.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 3.3-9mm f/1.3 P-iris lens; Integrated IR; Next-Generation Analytics	3									2					1
5.0C-H5M-DO1-IR	5.0 MP WDR; LightCatcher; Day/Night; Outdoor Dome; 2.8mm f/1.2; IR	29	1	1	1		1	2	4		8		3	1		7
5.0C-H5SL-BO2-IR	5.0 MP; WDR; LightCatcher; Day/Night; Indoor/Outdoor Bullet Camera; 9.5-31mm f/1.4; Integrated IR	1										1				
5.0C-H5SL-D1-IR	5.0 MP; WDR; LightCatcher; Day/Night; Indoor Dome; 3.1-8.4mm f/1.6; Integrated IR	4											4			
6.0C-H5A-BO1-IR	6.0 MP WDR; LightCatcher; 4.9-8mm f/1.8 P-iris lens; Integrated IR; Next-Generation Analytics	6	3											2		1



Nomenclature	Description	Project Total Units	Fire Resource Building	FS151	FS152	FS153	FS154	FS156	FS157	FS159	GRPSTC	Landfill	O'Neil Rec Center	Rose Lane Youth Center	Sahuaro Ranch Athletic Park	Sine Building
LC-LC Fiber Patch Cable		7									7					
NF141208VFA1C-DF	Altelix 14x12x8 Fiberglass Weatherproof Vented NEMA Enclosure with 120 VAC Outlets, Power Cord & Cooling Fan with Digital Temperature Controller	7									7					
Vi01310MMA-H	1310nm MM Multi-Mode Hardened SFP	7									7					
Vi10240	56VDC, 240W Din-Rail, Hardened Power Supply 56VDC	7									7					
Vi30005	5-Port MaxiiNet 10/100/1G PoE Powered PoE Switch	7									7					
<b>POINT-TO-POINT</b>																
10187072 KBC NETWORK WES4-KT	GEN 4 5GHZ WIRELESS ETHERNET SYSTEM KIT CONSISTING OF TWO (2) WES4-AX-CF	28			2				2					4	20	
757253 KBC NETWORK KBC-SPB-4AF-48	COMPACT NEMA 4X ENCLOSURE WITH 48VDC POWER	28			2				2					4	20	
POE-INJ2-60W-NA	Indoor single port Gigabit PoE++ 60W; North American power cord included.	28			2				2					4	20	
<b>VIDEO INTERCOM</b>																
3.0C-H4VI-RO1-IR	3.0 MP, H4 Video Intercom, WDR, LightCatcher, Day/Night, 1.83mm f/2.4, Integrated IR, Recessed Mount	1										1				
H4VI-AC-RELY1	Safety Relay for H4 Video Intercom	1										1				
H4VI-MT-SURF1	Surface mount adapter for H4 Video Intercom	1										1				
H4VI-RO-CVER1	Replacement dome cover for H4VI camera, package of 5	2										2				
<b>CABLE</b>																
556600	23-4P UNS SOL CMP C6 Wht Jkt	56000	3000	3000	3000	3000	3000	3000	5000	3000	13000	3000	4000	5000	1000	4000
CAT6 STP	Outdoor CAT6 STP Ethernet Cable	500													500	
J-Hooks		1									1					
<b>CONDUIT/BACKBOXES</b>																
Con300851	10 Linear feet Conduit, J-boxes end to end	277	10	38	20	12	35	25	40	12	30		25	10	15	5
Conduit	10FT, 3/4" CONDUIT	15										15				

SECTION 3

# STATEMENT OF WORK

Motorola Solutions with our subcontractor, Climatec LLC, will install, configure, program, commission, and test the Avigilon Control Center video management system at each of the proposed locations as detailed in the System Description, Equipment List, and the included Design Documents. COG will assume responsibility for the installation and performance of all other equipment and work necessary for completion of this project that is not provided by Motorola Solutions. The following table describes the general responsibilities involved with installation and configuration.

Implementation services included as part of this proposal are based on work being performed during normal business hours, Monday through Friday or as agreed upon. Should Glendale require services to occur during non-business hours, additional costs may apply and will be handled via the change order process.

The baseline design for FS153 is a duplicate of FS159. There has not been a site walk or design review for FS153 as plans are not available for the site. Any adjustments to design or scope of services will be handled via the change order process.

Tasks	Motorola	COG
<b>Avigilon VMS Installation and Configuration</b>		
Execute contract and distribute contract documents.	X	X
Assign a Project Manager as a single point of contact.	X	X
Schedule kickoff meeting.	X	
Ensure that project team members attend all meetings relevant to their role on the project.	X	X
Hold regular project status meetings as agreed upon; record and distribute meeting minutes.	X	
Conduct a Detailed Design Review on a site by site basis or as mutually agreed upon.	X	X
Review and update design documents, including System Description, Statement of Work, Project Schedule, and Acceptance Test Plan, based on Design Review agreements.	X	
Provide a Notice to Proceed (NTP) on a site by site basis upon approval of each detailed site design.		X
Procure equipment for each site upon receipt of NTP and in accordance with agreed upon implementation schedule.	X	
Schedule implementation for each site in agreement with the Customer.	X	
Submit project milestone completion documents for each site in accordance Contract agreement.	X	
Upon completion of required tasks, approve project milestone completion documents.		X



Tasks	Motorola	COG
Coordinate the activities of all Motorola Solutions subcontractors under this contract.	X	
Administer safe work procedures for installation.	X	
Receive, Store and Deliver Equipment to Site for Installation	X	
Perform the installation of the items included in project equipment list in accordance with the agreed upon project schedule.	X	
Install and interface cabling to each camera location in accordance with design documents.	X	
Provide and install all conduit, wire mold and panduit as required for cable routing at each site based on the proposed equipment list and design documents..	X	
Provide constant power to all point to point wireless locations and light pole mounted cameras		X
Provide clear access during cable pulls and equipment installations.		X
Provide rack space, power and backup power in network closet for NVR and POE switch at each location.		X
Provide all required COG switches, backhaul, and network configuration.		X
Perform patching and painting as required after installations/removal of existing cameras.		X
Provide Training in accordance with Training Plan.	X	
Integrate each site ACC to the Glendale CC Aware RTCC system over COG provided network.	X	
Provide final design documentation for each site reflecting final as-built configurations. Existing design documents will be updated in PDF format. BIM/3D CAD excluded.	X	
Ensure sites meet space, grounding, power, and connectivity requirements for the installation of all equipment.		X
Take responsibility for the resolution of environmental and hazardous material issues at each site including, but not limited to, asbestos, structural integrity and other building risks and any associated delays.		X
Obtain and pay for and any required permits to allow installation.		X
Coordinate the activities of all other Customer vendors or contractors.		X
These responsibilities should be considered general in nature, and specific sites or custom requirements may require additional work. Motorola Solutions reserves the right to modify the Terms and/or Pricing shown in this document if additional information is discovered prior to installation.		

Either Party may request changes to the general scope of this Agreement. If a requested change causes an increase or decrease in the cost or a change in system configuration, the Parties will agree to an equitable adjustment of the Contract Price and will reflect the



adjustment in a Change Order. Neither Party is obligated to perform requested changes unless both Parties execute a written Change Order.



SECTION 4

# PROJECT SCHEDULE

The proposed solution consists of 14 City of Glendale facilities. A mutually agreed upon schedule will be developed and finalized on a site by site basis upon the approval of a detailed design and receipt of a Notice to Proceed from the City of Glendale.



SECTION 5

# TRAINING PLAN

## 5.1 POST-INSTALLATION TRAINING – ON-SITE

On-site training will be provided for each proposed site at the completion of installation and testing. Training will be provided by Climatec and will vary based on user role and VMS permissions assigned to each as determined by COG prior to completion of system installation. Course scope, objectives and outcomes are defined below. COG to provide direction on the level of training to be provided to specific users prior to completion of each system so that Climatec may prepare training content appropriate to the audience.

All Avigilon online courses are available on-demand and are free of charge, enabling users to continue to advance their ACC learning and expertise, as well as provide a training to new users as needed.

### **Operator I: Target User Access Level: Basic**

**This course takes approximately 60-90 minutes to complete.**

**Scope** - This course is designed for learners who need to know how to view video and operate the Client software at a basic level. It is designed for learners whose primary responsibility is to monitor a site. For example, the topics covered in the course include viewing live surveillance video and viewing video of alarm events, among other topics.

**Structure** - This is the first of two courses which introduce you to Avigilon Control Center (ACC) Client software. The course design allows you to complete lessons and activities in any order and at your own pace. As this course is part of a certification course, there is a final assessment which you may take and pass upon completion of all the chapters in the course. This course is largely limited to the basic features of ACC. The topics covered are pertinent to the everyday operator and thus mostly excludes advanced features of the software.

**General Outcome** - Upon completing the course, you will be able to view video and operate the Client software at a basic level.

**Specific Outcomes** - Specifically, upon completing this course, you will be able to:

- Perform basic functions in the software
- Use and adjust image panels
- Control and direct a PTZ camera
- Create presets and tours
- Use the digital defog feature
- Replay live video
- Setup a view layout
- Create and use maps
- View video in an event of an alarm
- Automize to quickly access the software
- Quickly show, review, and investigate events with other users
- Interact with display monitors that are not directly connected to a workstation

## **Operator II: Target User Access Level: Basic Plus**

**This course takes approximately 60-90 minutes to complete.**

**Scope** - This course is a continuation of ACC Operator I. It is designed for learners who need to know how to find and share videos and images in the ACC Client software. It is designed for learners whose primary responsibility is to monitor a site. For example, the topics covered in the course include finding and reviewing recorded video, and performing different types of video searches, among other topics.

**Structure** - This is the second of two courses which introduce you to Avigilon Control Center (ACC) Client software. The course design allows you to complete lessons and activities in any order and at your own pace. As this course is part of a certification course, there is a final assessment which you may take and pass upon completion of all the chapters in the course. This course is largely limited to the basic features of ACC. The topics covered are pertinent to the everyday operator and thus mostly excludes advanced features of the software.

**General Outcome** - Upon completing ACC Operator II, you will be able to find and share videos and images in the Client software.

**Specific Outcomes** - Specifically, upon completing this course, you will be able to:

- View recorded video
- Access search types for recorded video
- Create a bookmark
- Perform a bookmark search
- Search for events from multiple cameras
- Search through an alarm's history
- Perform a thumbnail search
- Perform a motion search
- Perform a POS transaction search
- Perform an appearance search
- Save a snapshot
- Export videos and images

## **Administrator: Target User Access Level: Advanced**

**This course takes approximately 2-2.5 hours to complete.**

**Scope** - This course is intended for learners who already have operative knowledge of Avigilon Control Center (ACC). We recommend that you complete the ACC Operator Course prior to taking this course. This course is intended for learners who need to understand the advanced functionality of ACC and/or need to know how to set up and configure the software.

The topics covered in this course are limited to configuration and administration. Topics related to basic monitoring, operation, or video analytics are excluded. To learn about these subjects, consult the appropriate training such as the ACC Operator Course or the Video Analytics Course.

**Course Structure** - This course is comprised of several chapters that overview how to configure and administer of the software. The course design requires you to complete the



lessons in one chapter before progressing to the next. This course contains a final assessment, which is designed to assess your understanding of the course content.

**General Learning Outcome** - Upon completing the ACC Administrator Course, you will be able to set up and configure ACC software.

**Specific Learning Outcomes** - Specifically, upon completing this course, you will be able to:

- Group servers into a site
- Install a virtual matrix and add and remove monitor views
- Connect a camera to a server
- Find and connect a video analytics appliance to the software
- Configure general device settings in the software
- Use the Site View Editor to configure the appearance of the system explorer
- Search for an event and export the event log
- Set up an email notification for when an event occurs
- Access the Site Health feature and analyze the general performance of a site
- Complete a backup and restore
- Schedule backups of recorded video
- Complete the steps to upgrade the server(s) at your site.
- Add, manage, and remove users
- Create and manage groups
- Import a Windows Active Directory group
- Create and manage alarms
- Create and manage rules
- Describe how corporate hierarchies work
- Setup a corporate hierarchy in your site
- Connect child sites to a parent site
- Configure COVID-19 technology

**Additional ACC Training Courses** – Additional course are available online and free of charge and include:

- ACC Design
- ACC Installation
- ACC Mobile
- ACC Video Analytics
- Avigilon Cloud Service
- ACC/ACM Unification
- Hardware
- System Integration
- Camera Configuration

## 5.2 ON-LINE AND INSTRUCTOR-LED TRAINING

Motorola offers additional training aimed at providing a comprehensive understanding of the Avigilon Video Management System. Training courses are available online at no charge for as many users as COG would like to engage. In addition, instructor-led training is available

in Richardson, TX. There is no cost for instructor-led training, however travel expenses are a customer responsibility.

ACC Video Management System training and certification is 100% online. Instructor -led training is available on-site at a location of COG's choosing for an additional expense.



SECTION 6

# ACCEPTANCE TEST PLAN

Acceptance for each site of the proposed solution will occur upon successful completion of a Functional Acceptance Test Plan (FATP), which will test the features and functionality for the installed equipment in order to verify that the solution operates according to its design. Final System Acceptance will occur upon completion of all deliverables and testing for the proposed 14 sites.



SECTION 7

# WARRANTY AND MAINTENANCE PLAN

Motorola Solutions will provide warranty services per our standard warranty terms and conditions, included in the Contract C-19-0918 and in this Proposal. In addition to the warranty services, Motorola Solutions will provide during the Warranty Period above-warranty services that are described generally below. A full description and statement of work describing the services that will be provided are available upon request. After the Warranty Period, the services may be purchased under a separate maintenance agreement.

## 7.1.1 Technical Support Service

Avigilon Video Infrastructure - All NVR's are backed by lifetime 24/7 Avigilon telephone technical support.

## 7.1.2 On-Site Infrastructure Response –Limited 8X5

On-Site Infrastructure Response will be provided by Climatec LLC of Phoenix, AZ. Trained and qualified technicians will arrive at your location to diagnose and restore your system for one year from acceptance of each site.

## 7.1.3 Warranties and Extended Warranties

Avigilon offers the most comprehensive warranties in the industry. Warranties listed below are provided as part of this proposal.

- Avigilon Video Infrastructure - All NVR's are backed by lifetime 24/7 Avigilon telephone technical support.
- NVR5 series NVR's include manufacturer's five (5) year limited warranty with Next Business Day Dell-on-Site Response.
  - Manufacturer's Extended Warranty for the NVR5-series upgrades response to 4 hour mission critical Dell-on-Site for duration of warranty.
- Avigilon Video Infrastructure: NVR5 series, HD Appliances and Workstations include manufacturer's three (3) year limited warranty and advance replacement.
  - Manufacturer's Extended Warranty for the NVR5 series, HD Appliances and Workstations extends warranty for 2 more years, total 5 years
- Avigilon Monitors include manufacturer's three (3) year limited warranty.
- Avigilon Cameras and Sensors:
  - H5A, H5SL, H5M Camera Lines: manufacturer's five (5) year limited warranty and advance replacement.
  - H5A PTZ Cameras: manufacturer's five (5) year limited warranty and advance replacement.
  - H5F, H4VI, H4IRPTZ Cameras: manufacturer's three (3) year limited warranty and advance replacement.



SECTION 8

# PRICING AND PAYMENT TERMS

## 8.1 SUMMARY PRICING

Description	Price
Equipment Total	\$ 1,207,762.98
HGAC Discount	\$ (108,770.19)
<b>Equipment Total After Discount</b>	<b>\$ 1,098,992.79</b>
Services Total	\$ 1,478,200.23
Technology Bank*	\$ 109,935.00
Bundling Incentive**	\$ (128,859.67)
<b>System Total</b>	<b>\$ 2,558,268.35</b>
Sales Tax (equipment only at 9.2 %)	\$ 101,107.33
<b>PROJECT TOTAL</b>	<b>\$ 2,659,375.68</b>
*Technology Bank will be billed in conjunction with change orders and add-ons	
**Bundling incentive valid for a Signed Contract by Sept 29, 2022 of all sites as proposed.	

## 8.2 SITE LEVEL PRICING

Site Name	Equipment Total (MSRP)	Equipment Total (HGAC Discount)	Sales Tax (9.2% on Equipment Only)	Services	Bundling Incentive*	Total
Fire Resource Center	\$ 59,529.19	\$ 53,771.05	\$ 4,946.94	\$77,124.93	\$ (6,544.80)	\$ 129,298.12
Fire Station 151	\$ 68,642.99	\$ 62,142.12	\$ 5,717.08	\$82,622.90	\$ (7,238.25)	\$ 143,243.85
Fire Station 152	\$ 71,544.94	\$ 65,083.73	\$ 5,987.70	\$81,102.99	\$ (7,309.34)	\$ 144,865.08
Fire Station 153	\$ 47,869.63	\$ 43,290.88	\$ 3,982.76	\$70,991.46	\$ (5,714.12)	\$ 112,550.98
Fire Station 154	\$ 64,820.23	\$ 58,683.73	\$ 5,398.90	\$96,903.39	\$ (7,779.36)	\$ 153,206.66
Fire Station 156	\$ 62,866.19	\$ 56,865.39	\$ 5,231.62	\$76,149.29	\$ (6,650.73)	\$ 131,595.57
Fire Station 157	\$ 74,987.98	\$ 68,389.93	\$ 6,291.87	\$105,348.65	\$ (8,686.93)	\$ 171,343.52
Fire Station 159	\$ 47,869.63	\$ 43,290.88	\$ 3,982.76	\$70,991.46	\$ (5,714.12)	\$ 112,550.98
GRPSTC	\$ 228,286.15	\$ 207,326.63	\$ 19,074.05	\$252,081.77	\$ (22,970.42)	\$ 455,512.03
Landfill	\$ 117,605.93	\$ 106,105.04	\$ 9,761.66	\$112,263.92	\$ (10,918.45)	\$ 217,212.17
O'Neil Rec Center	\$ 66,864.48	\$ 60,516.84	\$ 5,567.55	\$80,185.99	\$ (7,035.14)	\$ 139,235.24

Site Name	Equipment Total (MSRP)	Equipment Total (HGAC Discount)	Sales Tax (9.2% on Equipment Only)	Services	Bundling Incentive*	Total
Rose Lane Youth Center	\$ 83,012.13	\$ 76,224.79	\$ 7,012.68	\$100,218.34	\$ (8,822.16)	\$ 174,633.65
Sahuaro Ranch Park Sports Complex	\$ 173,673.70	\$ 160,911.55	\$ 14,803.86	\$196,783.64	\$ (17,884.76)	\$ 354,614.29
Sine Building	\$ 40,189.81	\$ 36,390.23	\$ 3,347.90	\$75,431.50	\$ (5,591.09)	\$ 109,578.54
<b>TOTAL*</b>	<b>\$ 1,207,762.98</b>	<b>\$ 1,098,992.79</b>	<b>\$ 101,107.33</b>	<b>\$1,478,200.23</b>	<b>\$ (128,859.67)</b>	<b>\$ 2,549,440.68</b>
* Technology Bank is not built into individual site pricing and instead will be billed in conjunction with change orders and add-ons.						
**Bundling incentive valid for Signed Contract by Sept 29, 2022 of all sites as proposed. Full system incentive is shown broken down by site per the City.						

### 8.3 PAYMENT TERMS

Except for a payment that is due on the Effective Date, Customer will make payments to Motorola within thirty (30) days after the date of each invoice. Customer will make payments when due in the form of a check, cashier’s check, or wire transfer drawn on a U.S. financial institution. If Customer has purchased additional Professional or Subscription services, payment will be in accordance with the applicable addenda. Payment for the System purchase will be in accordance with the following milestones.

**System Purchase per Site (excluding Subscribers, if applicable)**

1. 50% of each Site Price is due upon shipment of site equipment;
2. 50% of each Site Price is due upon completion of site installation.

Motorola shall make partial shipments of equipment and will request payment upon shipment of such equipment. In addition, Motorola shall invoice for installations completed on a site-by-site basis or when professional services are completed, when applicable. The value of the equipment shipped/services performed will be determined by the value shipped/services performed as a percentage of the total milestone value. Unless otherwise specified, contract discounts are based upon all items proposed and overall system package. For invoicing purposes only, discounts will be applied proportionately to the FNE and Subscriber equipment values to total contract price. Overdue invoices will bear simple interest at the maximum allowable rate by state law.

Price Adjustment Due to Market volatility: Motorola’s proposal is conditioned upon the ability of Motorola to complete the project at the prices set forth herein. Due to significant market volatility and material price fluctuations in raw materials such as steel, copper, finished wood and concrete, Motorola reserves the right to review all material pricing prior to placing any order for materials or equipment required for new towers or shelters and related civil work at each site in order to verify price validity. In the event of a cost increase in material, equipment or energy occurring during performance of the project through no fault of Motorola, the contract price, time of completion and/or contract requirements shall be

equitably adjusted by Change Order in accordance with the procedures of the contract documents. The freight rates are estimated. Motorola reserves the right to apply a fuel surcharge to the quoted freight rates on all shipments based on the cost of diesel at the time of shipment.



SECTION 9

# CONTRACTUAL DOCUMENTATION

This proposal pricing is pursuant the RA05-21 Radio Communications/Emergency Response Equipment and the agreement between the City of Glendale and Motorola, C 19-0918 previously entered into effective September 26, 2019 (the "Contract"). Section 3.5 of the Contract permits Glendale to make additional purchases of Equipment, Software, and services using the Contract as the underlying agreement. This proposal is based on the assumption that the Customer will use its rights under Section 3.5 for the proposed transaction(s) and that the terms and conditions of the Contract apply. To do so, Glendale may accept this offer by returning executed copies of Amendment Number Three to memorialize the purchase of products and services as described in Motorola's proposal. This proposal shall remain valid until September 29, 2022.



SECTION 10

# APPENDIX A-DETAILED SITE DESIGNS

Detailed Site Designs are included on the pages that follow.



## 10.1.1 Fire Resource Building



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Send this PDF to Sales at Avigilon (sales@avigilon.com) or your local Avigilon representative to receive a quote on this design.

## **Design Comments**

CoG Fire Resource Center

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## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-32TB-NA	n/a	30.4 TB	208.77 Mbps	34 days 6 hours	Valid

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### HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 Reception (DC) EOL	2.0C-H4M-D1	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	10	Quality 6	3.57 Mbps	X		
Camera 2 Front of Building (DP)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 3 NE Parking (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 4 SE parking/ entry gate (DP)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 5 SE parking/ entry gate (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		

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<input type="checkbox"/> Head 2					4.0	12	12		Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12		Quality 6		X		
Camera 6 (DP)	8.0C-H5A-DP1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	7.5	10	12		Quality 6	7.96 Mbps	X		
Camera 7 (DP)	8.0C-H5A-DP1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	7.5	10	12		Quality 6	7.96 Mbps	X		
Camera 8 (BO)	6.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.1	10	12		Quality 6	7.67 Mbps	X		
Camera 9 Gate (DP)	2.0C-H5A-DP2	Storage 1 (EOL)	1	Built-In Lens, 9-22mm, f/1.6, P-Iris, Vari Focal	10.6	10	8		Quality 6	5.08 Mbps	X		
Camera 10 (BO)	6.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.6	10	8		Quality 6	7.67 Mbps	X		
Camera 11 (BO)	6.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.6	10	8		Quality 6	7.67 Mbps	X		

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### Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 Reception (DC) EOL	8.5	6	12.7	28.8	40.1	43.2	66.7
Camera 2 Front of Building (DP)	8.5						
<input type="checkbox"/> Head 1		6	19.8	40	48.5	67.4	95.9
<input type="checkbox"/> Head 2		6	36.2	72.6	51.7	123	52.9
<input type="checkbox"/> Head 3		6	37.1	74.6	51.8	126.2	51.5
Camera 3 NE Parking (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	43.7	87.8	52.4	148.7	43.7
<input type="checkbox"/> Head 2		6	43.5	87.4	52.4	148	44
<input type="checkbox"/> Head 3		6	45.5	91.2	52.5	154.6	42.1
Camera 4 SE parking/ entry gate (DP)	8.5						
<input type="checkbox"/> Head 1		6	32.7	65.7	51.3	111.1	58.5
<input type="checkbox"/> Head 2		6	43.2	86.8	52.4	147	44.2
<input type="checkbox"/> Head 3		6	37	74.3	51.8	125.8	51.7
Camera 5 SE parking/ entry gate (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	34.2	68.7	51.5	116.3	55.9
<input type="checkbox"/> Head 2		6	34.3	68.9	51.5	116.5	55.8
<input type="checkbox"/> Head 3		6	35	70.4	51.6	119.1	54.6
Camera 6 (DP)	8.5	6	31.7	32.3	68.9	107.7	118.8
Camera 7 (DP)	8.5	6	30.1	30.7	68.6	102.3	125
Camera 8 (BO)	8.5	6	25.6	32.5	59.5	87	94.4

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Camera 9 Gate (DP)	8.5	6	63.6	30.3	80.1	216.3	63.4
Camera 10 (BO)	8.5	6	33.4	30.8	67.9	113.7	99.7
Camera 11 (BO)	8.5	6	34.7	32	68	117.9	96.1

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## Storage 1 (EOL)

Model: NVR4X-STD-32TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
2.0C-H4M-D1	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
2.0C-H5A-DP2	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	34 days 6 hours	34 days 6 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	34 days 6 hours	34 days 6 hours			0 days 0 hours

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## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.2 City of Glendale-Fire Station 151



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## **Design Comments**

CoG Fire Station 151

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-48TB-NA	n/a	45.6 TB	250.34 Mbps	43 days 4 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 Front entrance off Bethany Home (DC)	5.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	10.42 Mbps	X		
Camera 2 Parking in front of living quarters (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 3 Fire Bay Doors from secured lot (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 4 secured parking lot (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		

Camera 5 (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	10.00 Mbps	X		
Camera 6 Gate Cam on P2P. Will need power at pole (POLE)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 7 Parking Lot Cam on P2P. Will need power at pole (POLE)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 8 (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	30	6	Quality 6	11.99 Mbps	X		
Camera 9 (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	> max	30	6	Quality 6	11.99 Mbps	X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 Front entrance off Bethany Home (DC)	8.5	6	13.5	25.4	35.7	46	102
Camera 2 Parking in front of living quarters (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	31.9	64	51.2	108.3	60
<input type="checkbox"/> Head 2		6	33.4	67.2	51.4	113.7	57.2
<input type="checkbox"/> Head 3		6	34.7	69.7	51.6	118	55.1
Camera 3 Fire Bay Doors from secured lot (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	32.4	65.1	51.3	110.1	59
<input type="checkbox"/> Head 2		6	33.3	66.9	51.4	113.1	57.4
<input type="checkbox"/> Head 3		6	37.7	75.7	51.9	128.1	50.7
Camera 4 secured parking lot (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	26.8	53.9	50.4	91.1	71.2
<input type="checkbox"/> Head 2		6	26.7	53.7	50.3	90.6	71.6
<input type="checkbox"/> Head 3		6	28.6	57.5	50.7	97.2	66.8
Camera 5 (BO)	8.5	6	44.4	21.9	60.8	150.8	98.6
Camera 6 Gate Cam on P2P. Will need power at pole (POLE)	8.5						
<input type="checkbox"/> Head 1		6	16.5	33.4	47.1	56.1	114.8
<input type="checkbox"/> Head 2		6	16.5	33.4	47.1	56.1	114.8
<input type="checkbox"/> Head 3		6	16.5	33.4	47.1	56.1	114.8

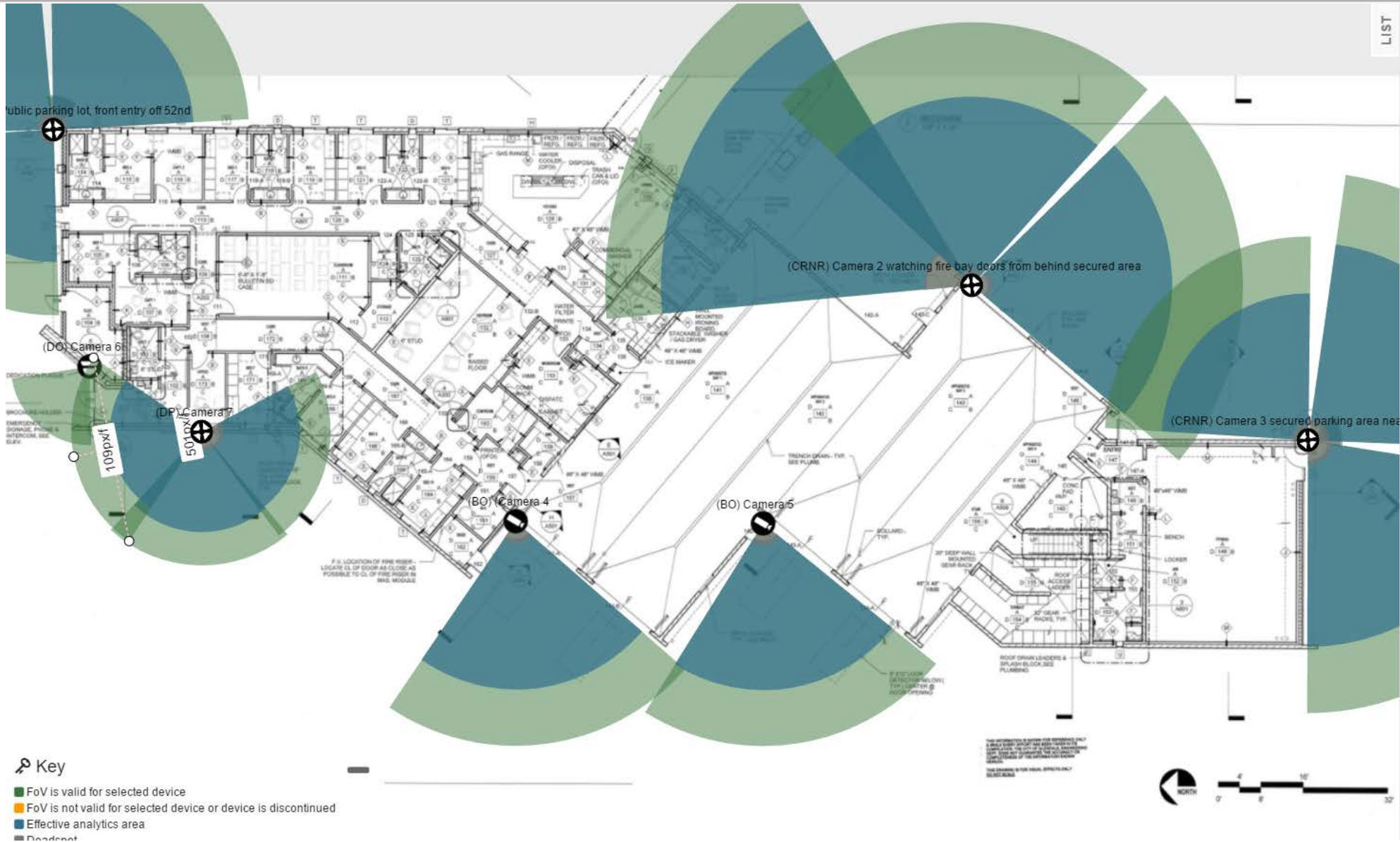
Camera 7 Parking Lot Cam on P2P. Will need power at pole (POLE)	8.5						
<input type="checkbox"/> Head 1		6	16.5	33.4	47.1	56.1	114.8
<input type="checkbox"/> Head 2		6	16.5	33.4	47.1	56.1	114.8
<input type="checkbox"/> Head 3		6	16.5	33.4	47.1	56.1	114.8
<input type="checkbox"/> Head 4		6	16.5	33.4	47.1	56.1	114.8
Camera 8 (BO)	8.5	6	45.1	22.3	60.8	153.5	96.9
Camera 9 (BO)	8.5	6	47.9	23.6	61	162.8	91.4

**Storage 1 (EOL)**

Model: NVR4X-STD-48TB-NA

Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
5.0C-H5M-DO1-IR	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
24C-H4A-3MH-270	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
24C-H4A-3MH-270	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
24C-H4A-3MH-270	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
24C-H4A-3MH-270	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
32C-H4A-4MH-360	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 4 hours	43 days 4 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 4 hours	43 days 4 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.3 City of Glendale-Fire Station 152



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## **Design Comments**

CoG Fire Station 152

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 EOL	NVR4X-STD-48TB-NA	n/a	45.6 TB	234.08 Mbps	46 days 11 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 EOL Front entrance off Bethany Home (DC)	2.0C-H4M-D1	Storage 1 EOL	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	3.57 Mbps	X		
Camera 2 Parking in front of living quarters (DP)	24C-H4A-3MH-180	Storage 1 EOL	1	Built-In Lens, 5.2mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 3 Fire Bay Lanes to Bethany Homes (DP)	24C-H4A-3MH-180	Storage 1 EOL	1	Built-In Lens, 5.2mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 4 Front entrance near 69th Ave (DP)	2.0C-H5SL-DO1-IR	Storage 1 EOL	1	Built-In Lens, 3.1-8.4mm, f/1.6, P-Iris, Vari Focal	3.1	10	6	Quality 6	4.21 Mbps	X		
Camera 5 Fire Bay Doors from secured lot (CRNR)	24C-H4A-3MH-270	Storage 1 EOL	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		

Camera 6 secured parking lot (CRNR)	24C-H4A-3MH-270	Storage 1 EOL	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 7 (BO)	5.0C-H5A-BO2-IR	Storage 1 EOL	1	Built-In Lens, 9-22mm, f/1.6, P-Iris, Vari Focal	22.0	10	6	Quality 6	5.94 Mbps	X		
Camera 8 (DP)	24C-H4A-3MH-270	Storage 1 EOL	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 9 Parking Lot Camera #2 (POLE)	24C-H4A-3MH-270	Storage 1 EOL	1	Built-In Lens, 4mm, f/1.8					18.84 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 EOLFront entrance off Bethany Home (DC)	8.5	6	10.5	24	37.8	35.7	79.9
Camera 2 Parking in front of living quarters (DP)	8.5						
<input type="checkbox"/> Head 1		6	35.7	46.6	64.5	121.3	82.4
<input type="checkbox"/> Head 2		6	31.4	41	63.9	106.6	93.7
<input type="checkbox"/> Head 3		6	32.1	41.9	64	109.1	91.6
Camera 3 Fire Bay Lanes to Bethany Homes (DP)	8.5						
<input type="checkbox"/> Head 1		6	30.6	40	63.8	103.9	96.1
<input type="checkbox"/> Head 2		6	31.4	41	63.9	106.6	93.7
<input type="checkbox"/> Head 3		6	32.1	41.9	64	109.1	91.6
Camera 4 Front entrance near 69th Ave (DP)	8.5	6	7.3	13.5	41.8	24.9	142.6
Camera 5 Fire Bay Doors from secured lot (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	30.8	62	51.1	104.8	61.9
<input type="checkbox"/> Head 2		6	33.8	67.9	51.5	114.8	56.6
<input type="checkbox"/> Head 3		6	37.7	75.7	51.9	128.1	50.8
Camera 6 secured parking lot (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	30.8	62	51.1	104.8	61.9
<input type="checkbox"/> Head 2		6	32.7	65.7	51.3	111.1	58.5
<input type="checkbox"/> Head 3		6	37.9	76.2	51.9	128.9	50.4

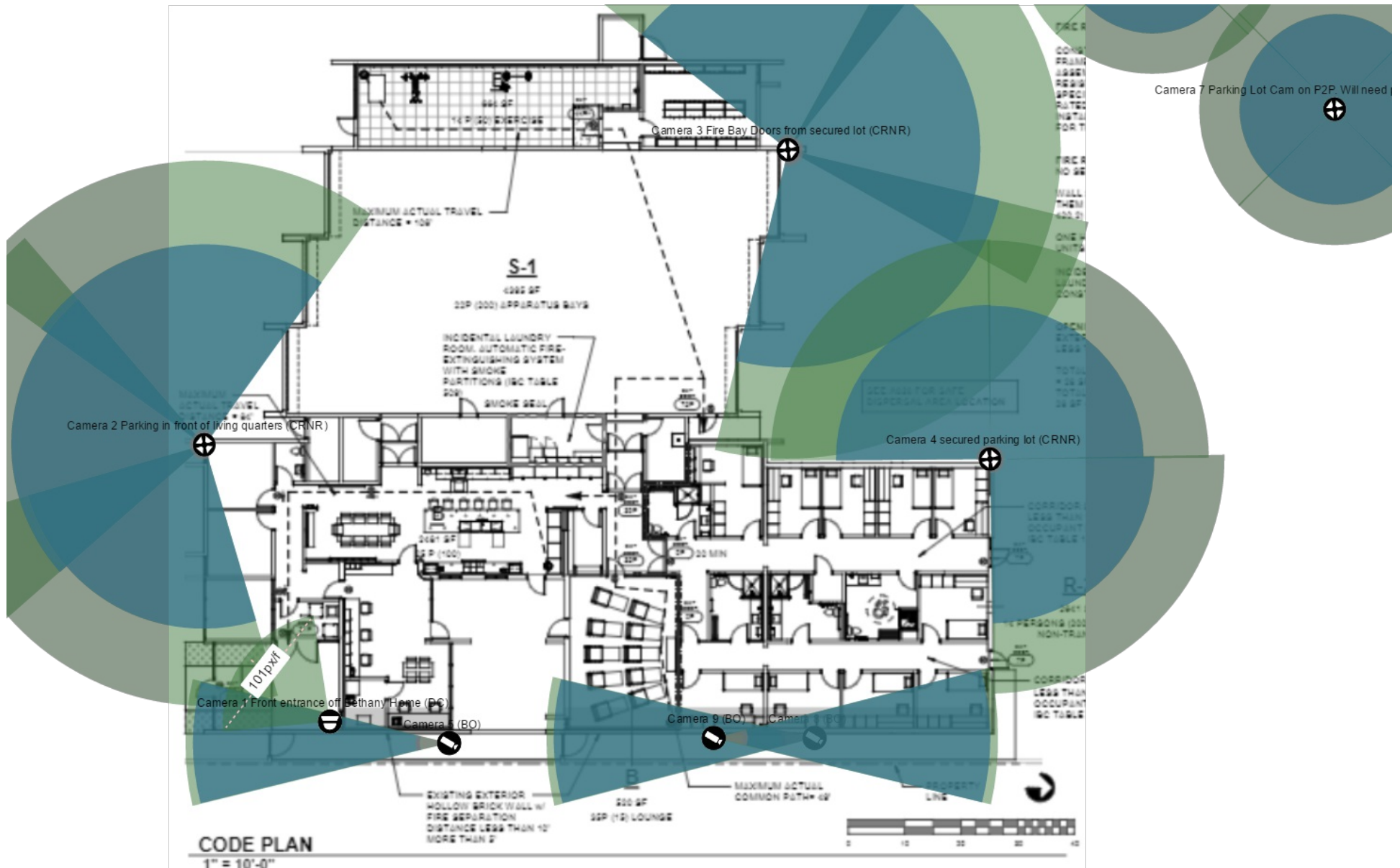
Camera 7 (BO)	8.5	6	135.3	24.7	81.9	460.1	78.6
Camera 8 (DP)	8.5						
□ Head 1		6	16.5	33.4	47.1	56.1	114.8
□ Head 2		6	16.5	33.4	47.1	56.1	114.8
□ Head 3		6	16.5	33.4	47.1	56.1	114.8
Camera 9 Parking Lot Camera #2 (POLE)	8.5						
□ Head 1		6	16.5	33.4	47.1	56.1	114.8
□ Head 2		6	16.5	33.4	47.1	56.1	114.8
□ Head 3		6	16.5	33.4	47.1	56.1	114.8

## Storage 1 EOL

Model: NVR4X-STD-48TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
2.0C-H4M-D1	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-180	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-180	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
2.0C-H5SL-DO1-IR	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-270	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-270	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
5.0C-H5A-BO2-IR	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-270	1	46 days 11 hours	46 days 11 hours			0 days 0 hours
24C-H4A-3MH-270	1	46 days 11 hours	46 days 11 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.4 City of Glendale-Fire Station 153

The baseline design for FS153 is a duplicate of FS159. There has not been a site walk or design review for FS153 as plans are not available for the site. Any adjustments to design or scope of services will be handled via the change order process.



## 10.1.5 City of Glendale-Fire Station 154



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## **Design Comments**

CoG Fire Station 154

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-48TB-NA	n/a	45.6 TB	235.93 Mbps	44 days 4 hours	Valid

**HDSM Smart Cameras**

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 fire bay doors on secured parking side (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 2 rest of secured parking, patio areas (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 3 rest of secured parking, patio areas (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		

Camera 4rest of secured parking, patio areas (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 5 (DP)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 6 (DC)	5.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 7 (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	> max	10	12	Quality 6	10.00 Mbps	X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 fire bay doors on secured parking side (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	26.1	52.6	50.2	88.8	73
<input type="checkbox"/> Head 2		6	19.9	40.1	48.5	67.6	95.7
<input type="checkbox"/> Head 3		6	20.1	40.6	48.6	68.3	94.7
<input type="checkbox"/> Head 4		6	20.2	40.9	48.7	68.8	94
Camera 2 rest of secured parking, patio areas (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	41.8	84	52.3	142.2	45.7
<input type="checkbox"/> Head 2		6	21.3	42.9	49	72.3	89.5
<input type="checkbox"/> Head 3		6	19.7	39.9	48.5	67.1	96.3
<input type="checkbox"/> Head 4		6	19.8	40	48.5	67.3	96.1
Camera 3 rest of secured parking, patio areas (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	13.4	27.3	45.1	45.5	140.7
<input type="checkbox"/> Head 2		6	21.5	43.4	49.1	73.1	88.6
<input type="checkbox"/> Head 3		6	22	44.3	49.2	74.6	86.7
<input type="checkbox"/> Head 4		6	26.3	52.9	50.3	89.4	72.5
Camera 4 rest of secured parking, patio areas (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	46.7	93.8	52.6	158.9	40.9
<input type="checkbox"/> Head 2		6	21.3	42.9	49	72.3	89.5

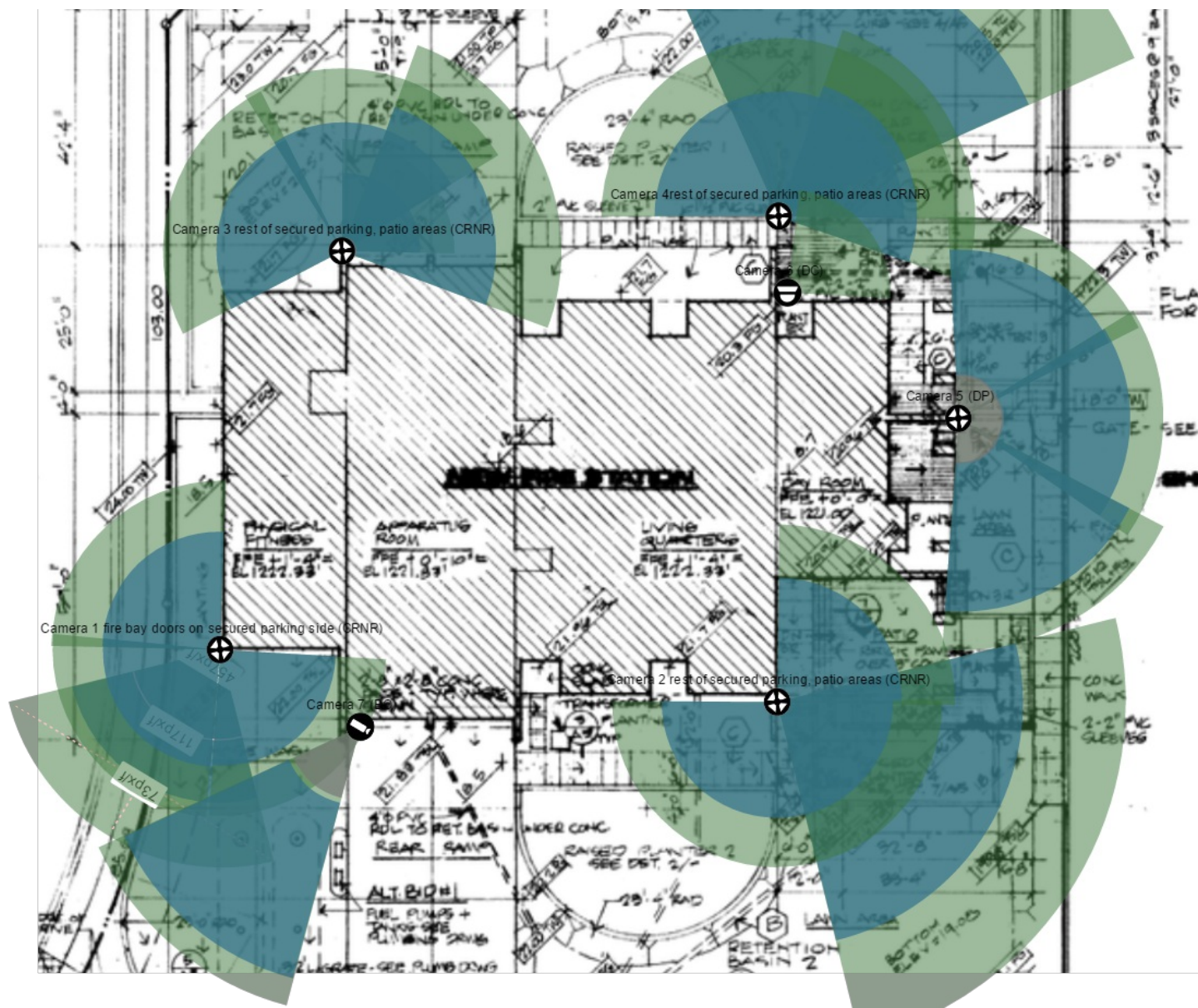
□ Head 3		6	21.4	43.1	49	72.6	89.1
□ Head 4		6	23.6	47.5	49.6	80.2	80.8
Camera 5 (DP)	8.5						
□ Head 1		6	28.7	37.6	63.5	97.7	102.2
□ Head 2		6	29.2	38.2	63.6	99.3	100.5
□ Head 3		6	33	43.1	64.2	112.2	89.1
Camera 6 (DC)	8.5	6	12.8	24	35.1	43.4	107.9
Camera 7 (BO)	8.5	6	44.4	41.8	71.4	150.8	91.9

**Storage 1 (EOL)**

Model: NVR4X-STD-48TB-NA

Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
32C-H4A-4MH-360	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
24C-H4A-3MH-180	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	44 days 4 hours	44 days 4 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	44 days 4 hours	44 days 4 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.6 City of Glendale-Fire Station 156



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## **Design Comments**

Fire Station 156

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-48TB-NA	n/a	45.6 TB	239.86 Mbps	44 days 13 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 front of fire house, aparatus room (DP)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 2 front of fire house, aparatus room (DP)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 3 front of fire house, aparatus room (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 4 (DC)	5.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	10.42 Mbps	X		

Camera 5 front of fire house, aparatus room (CRNR)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 6 front of fire house, aparatus room (CRNR)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 7	5.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	10.42 Mbps	X		

**Scene Details**

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 front of fire house, apparatus room (DP)	14.5						
<input type="checkbox"/> Head 1		6	25.2	53.2	37	42.9	72.1
<input type="checkbox"/> Head 2		6	25.4	53.6	37.2	43.2	71.7
<input type="checkbox"/> Head 3		6	26.3	55.5	37.8	44.9	69.2
<input type="checkbox"/> Head 4		6	5.7	20.6	0	9.8	186.8
Camera 2 front of fire house, apparatus room (DP)	14.5						
<input type="checkbox"/> Head 1		6	28.7	60.1	39.2	49	63.9
<input type="checkbox"/> Head 2		6	29.6	61.8	39.7	50.6	62.1
<input type="checkbox"/> Head 3		6	28.9	60.3	39.3	49.3	63.6
<input type="checkbox"/> Head 4		6	5.9	20.7	0.4	10.1	185.2
Camera 3 front of fire house, apparatus room (CRNR)	14.5						
<input type="checkbox"/> Head 1		6	20.3	44.2	33	34.7	86.9
<input type="checkbox"/> Head 2		6	25.4	53.7	37.2	43.3	71.6
<input type="checkbox"/> Head 3		6	29.8	62.2	39.8	50.9	61.8
<input type="checkbox"/> Head 4		6	5.7	20.6	0	9.8	186.8
Camera 4 (DC)	8.5	6	13.9	26.1	36	47.3	99.3
Camera 5 front of fire house, apparatus room (CRNR)	14.5						
<input type="checkbox"/> Head 1		6	31.9	66.2	40.8	54.4	58

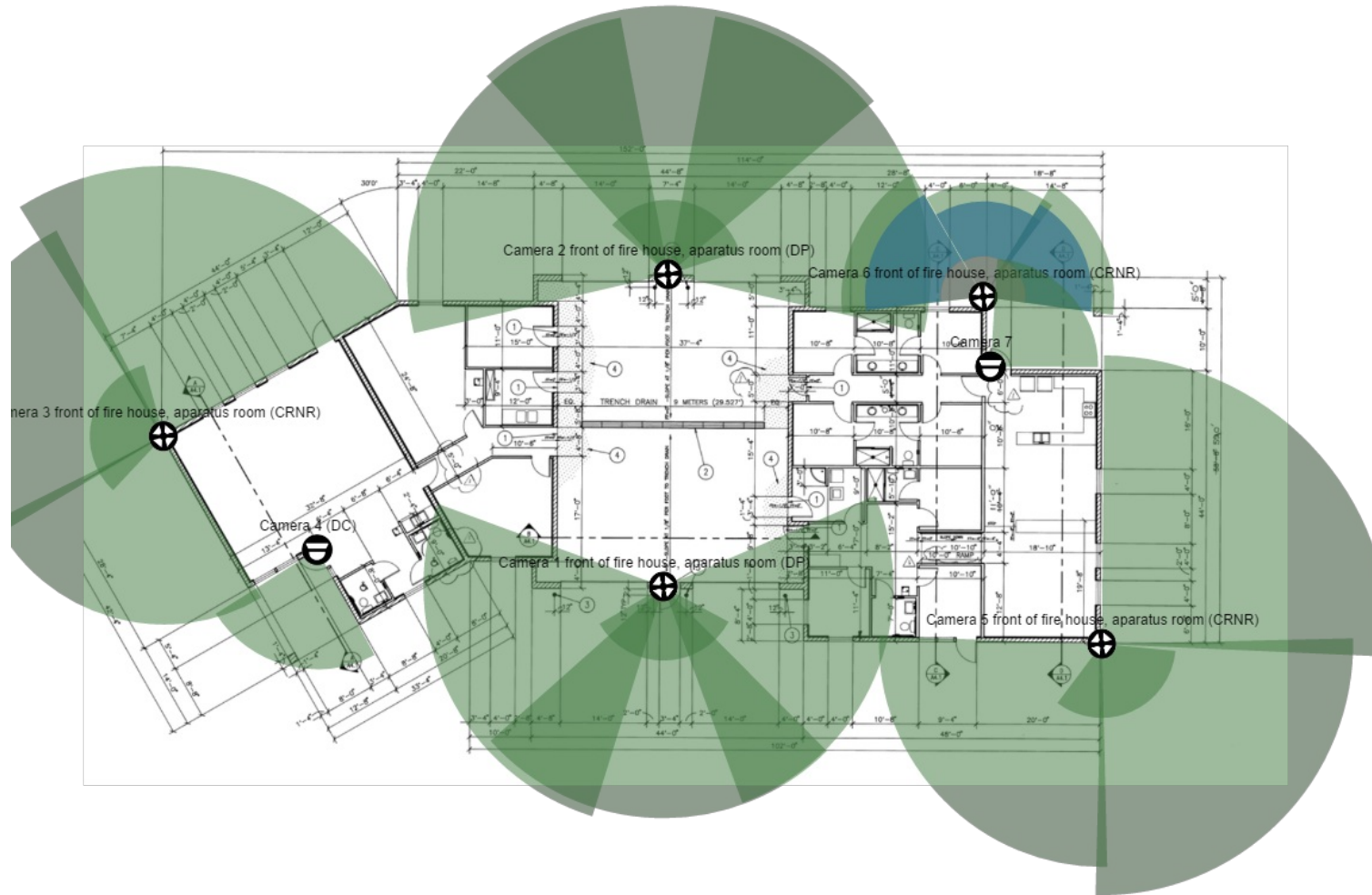
<input type="checkbox"/> Head 2		6	27.6	57.9	38.6	47.1	66.3
<input type="checkbox"/> Head 3		6	24.3	51.7	36.4	41.5	74.3
<input type="checkbox"/> Head 4		6	5.7	20.6	0	9.8	186.8
Camera 6 front of fire house, apparatus room (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	18.9	24.9	61	64.4	154.4
<input type="checkbox"/> Head 2		6	15.2	20.1	59.2	51.7	191.1
<input type="checkbox"/> Head 3		6	17.4	22.9	60.3	59.1	167.8
Camera 7	8.5	6	12.5	23.5	34.8	42.5	110.2

**Storage 1 (EOL)**

Model: NVR4X-STD-48TB-NA

Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
32C-H4A-4MH-360	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
32C-H4A-4MH-360	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
24C-H4A-3MH-180	1	44 days 13 hours	44 days 13 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	44 days 13 hours	44 days 13 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.7 City of Glendale-Fire Station 157



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## **Design Comments**

CoG Fire Station 157

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-48TB-NA	n/a	45.6 TB	280.26 Mbps	38 days 7 hours	Valid

**HDSM Smart Cameras**

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 front entrance (DP)	2.0C-H5SL-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 3.1-8.4mm, f/1.6, P-Iris, Vari Focal	< min	10	6	Quality 6	5.80 Mbps	X		
Camera 2 North side parking lot (DP)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 3 West side entrance to aparatus rooms (DP)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 4 East side entrance to aparatus rooms (DP)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 5 South side classrooms entrance (DO)	8.0C-H5A-FE-DO1	Storage 1 (EOL)	1	Built-In Lens, 1.4mm, f/2.0, Fish Eye	1.4	10	6	Quality 6	4.88 Mbps	X		

Camera 6 top of stair well north (DO)	2.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	30	6	Quality 6	6.28 Mbps	X		
Camera 7 top of stair well south (DO)	2.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	30	6	Quality 6	6.28 Mbps	X		
Camera 8 (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 9 West Parking Lot Cam w/ point-to-point (POLE)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		
Camera 10 West Parking Lot Cam w/ point-to-point (POLE)	32C-H4A-4MH-360	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	12	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	12	Quality 6		X		

Camera 11top of stair well south (DO)	5.0C-H5M-DO1-IR	Storage 1 (EOL)	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6		Quality 6	6.40 Mbps	X		
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## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 front entrance (DP)	8.5	6	8.5	15.5	44.3	29	124
Camera 2 North side parking lot (DP)	10.5						
<input type="checkbox"/> Head 1		6	25.8	34.1	58.6	60.2	112.6
<input type="checkbox"/> Head 2		6	24.7	32.8	58.2	57.7	117.2
<input type="checkbox"/> Head 3		6	23.1	30.7	57.5	53.9	125.3
Camera 3 West side entrance to apparatus rooms (DP)	10.5						
<input type="checkbox"/> Head 1		6	41.9	54.9	62.4	97.8	69.9
<input type="checkbox"/> Head 2		6	34	44.7	61	79.3	85.9
<input type="checkbox"/> Head 3		6	37.1	48.7	61.6	86.7	78.8
Camera 4 East side entrance to apparatus rooms (DP)	10.5						
<input type="checkbox"/> Head 1		6	41.9	54.9	62.4	97.8	69.9
<input type="checkbox"/> Head 2		6	34	44.7	61	79.3	85.9
<input type="checkbox"/> Head 3		6	37.1	48.7	61.6	86.7	78.8
Camera 5 South side classrooms entrance (DO)	8.5	6	7.8	15.5	0	26.4	55.3
Camera 6 top of stair well north (DO)	8.5	6	11.1	25.8	37.4	37.6	74.4
Camera 7 top of stair well south (DO)	8.5	6	8.1	19.4	33.1	27.6	99.2
Camera 8 (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	26.1	52.5	50.2	88.6	73.2
<input type="checkbox"/> Head 2		6	20.1	40.6	48.6	68.3	94.6

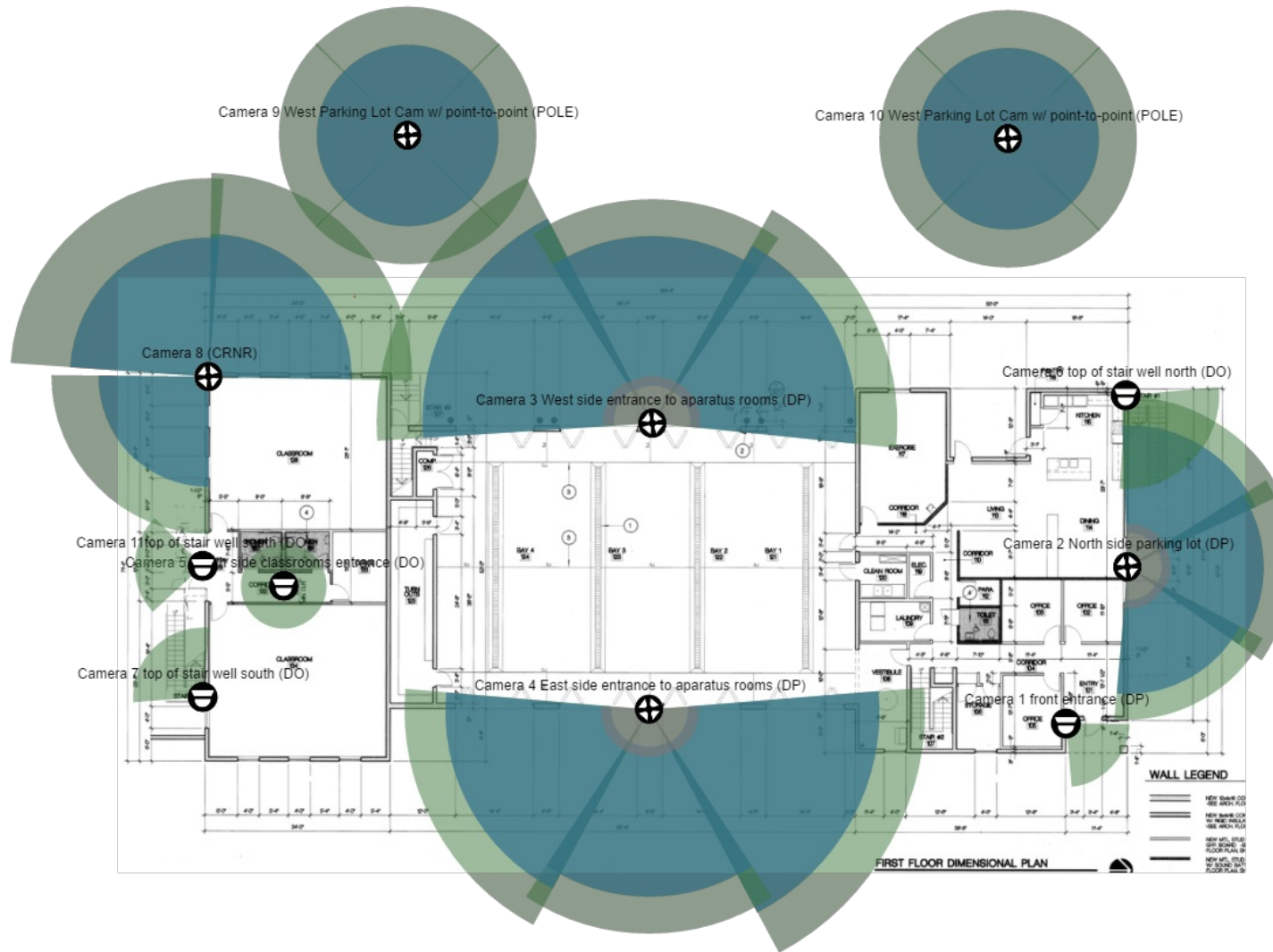
□ Head 3		6	25.4	51.1	50.1	86.3	75.1
Camera 9 West Parking Lot Cam w/ point-to-point (POLE)	8.5						
□ Head 1		6	16.5	33.4	47.1	56.1	114.8
□ Head 2		6	16.5	33.4	47.1	56.1	114.8
□ Head 3		6	16.5	33.4	47.1	56.1	114.8
□ Head 4		6	16.5	33.4	47.1	56.1	114.8
Camera 10 West Parking Lot Cam w/ point-to-point (POLE)	8.5						
□ Head 1		6	16.5	33.4	47.1	56.1	114.8
□ Head 2		6	16.5	33.4	47.1	56.1	114.8
□ Head 3		6	16.5	33.4	47.1	56.1	114.8
□ Head 4		6	16.5	33.4	47.1	56.1	114.8
Camera 11 top of stair well south (DO)	8.5	6	8.9	17	30.4	30.2	152.2

**Storage 1 (EOL)**

Model: NVR4X-STD-48TB-NA

Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
2.0C-H5SL-DO1-IR	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
24C-H4A-3MH-180	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
24C-H4A-3MH-180	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
24C-H4A-3MH-180	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
8.0C-H5A-FE-DO1	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
2.0C-H5M-DO1-IR	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
2.0C-H5M-DO1-IR	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
24C-H4A-3MH-270	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
32C-H4A-4MH-360	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
32C-H4A-4MH-360	1	38 days 7 hours	38 days 7 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	38 days 7 hours	38 days 7 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.8 City of Glendale-Fire Station 159



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## **Design Comments**

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1 (EOL)	NVR4X-STD-32TB-NA	n/a	30.4 TB	145.83 Mbps	48 days 3 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 West Side entrance/parking lot (DP)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 2 Covered Parking SE entrance (CRNR)	24C-H4A-3MH-270	Storage 1 (EOL)	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 3 Electrical Room/Back Entrance (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.1	30	6	Quality 6	14.89 Mbps	X		
Camera 4 Aparatus Room/ SE entrance (DP)	24C-H4A-3MH-180	Storage 1 (EOL)	1	Built-In Lens, 5.2mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					5.2	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					5.2	12	12	Quality 6		X		
Camera 5 (BO)	8.0C-H5A-BO1-IR	Storage 1 (EOL)	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.2	10	12	Quality 6	10.00 Mbps	X		

**Scene Details**

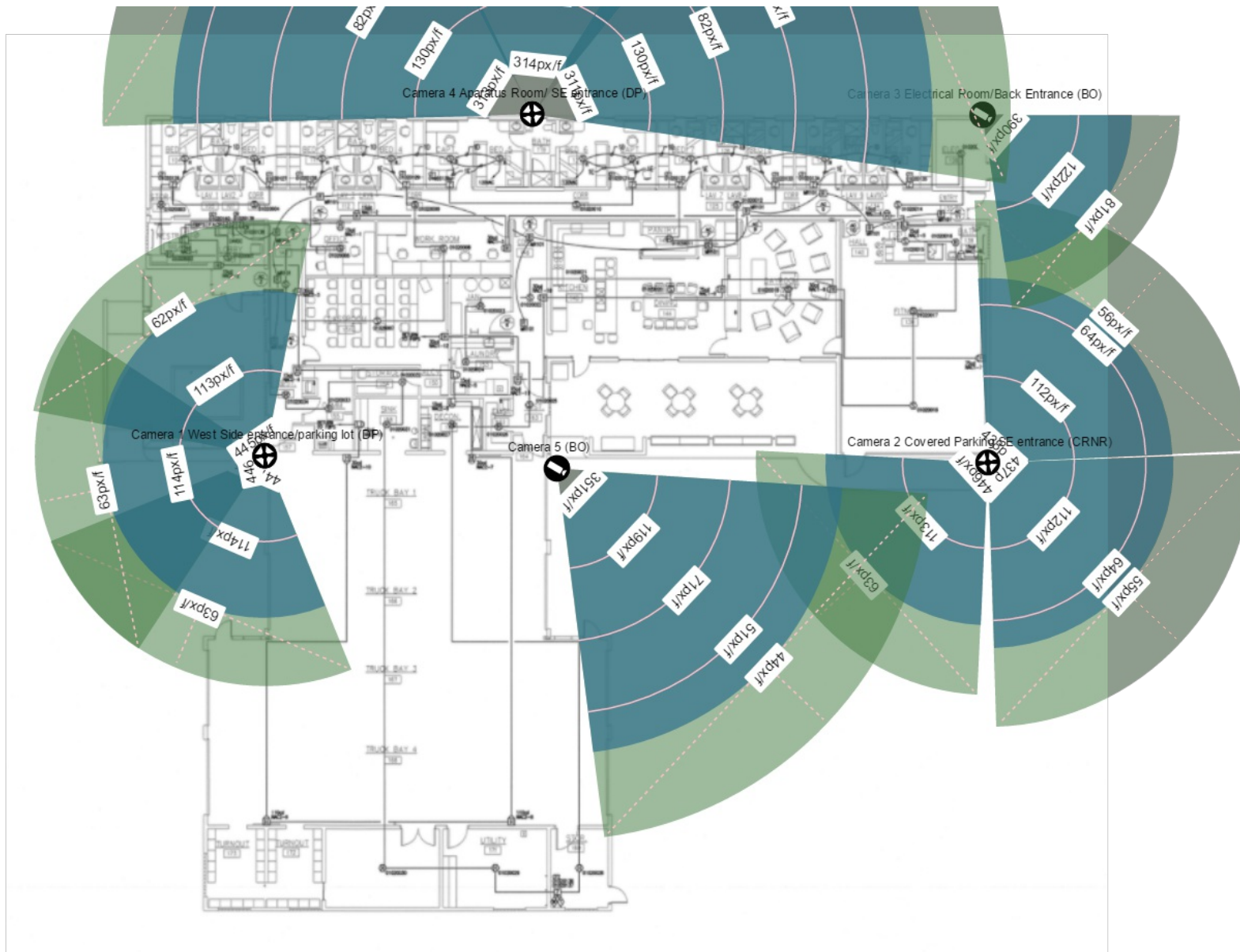
NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 West Side entrance/parking lot (DP)	8.5						
<input type="checkbox"/> Head 1		6	29.9	60.1	50.9	101.7	63.9
<input type="checkbox"/> Head 2		6	29.9	60.1	50.9	101.6	63.9
<input type="checkbox"/> Head 3		6	30.6	61.5	51	104	62.4
Camera 2 Covered Parking SE entrance (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	34	68.4	51.5	115.8	56.1
<input type="checkbox"/> Head 2		6	34.3	68.9	51.5	116.5	55.8
<input type="checkbox"/> Head 3		6	30.1	60.6	50.9	102.4	63.4
Camera 3 Electrical Room/Back Entrance (BO)	8.5	6	27.5	47.2	56.1	93.5	81.4
Camera 4 Aparatus Room/ SE entrance (DP)	8.5						
<input type="checkbox"/> Head 1		6	66.2	86.3	66.3	225.1	44.5
<input type="checkbox"/> Head 2		6	63.7	83.1	66.3	216.6	46.2
<input type="checkbox"/> Head 3		6	73.7	96.1	66.6	250.7	40
Camera 5 (BO)	8.5	6	52.8	86.8	59.8	179.5	44.2

**Storage 1 (EOL)**

Model: NVR4X-STD-32TB-NA

Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
24C-H4A-3MH-270	1	48 days 3 hours	48 days 3 hours			0 days 0 hours
24C-H4A-3MH-270	1	48 days 3 hours	48 days 3 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	48 days 3 hours	48 days 3 hours			0 days 0 hours
24C-H4A-3MH-180	1	48 days 3 hours	48 days 3 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	48 days 3 hours	48 days 3 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.9 City of Glendale-GRPSTC



Send this PDF to Sales at Avigilon ([sales@avigilon.com](mailto:sales@avigilon.com)) or your local Avigilon representative to receive a quote on this design.

## **Design Comments**

GRPSTC - 1st and Basement Design REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	NVR4X-PRM-157TB-NA	n/a	149.15 TB	791.19 Mbps	47 days 0 hours	Valid
Storage 1	AINVR-VAL-12TB-NA	n/a	10.92 TB	< 0.01 Mbps	0 days 0 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 (DC)	6.0C-H5A-DC1	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	4.9	10	8	Quality 6	7.67 Mbps	X		
Camera 2 (DC)	6.0C-H5A-DC1	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.0	10	8	Quality 6	7.67 Mbps	X		
Camera 3 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Camera 4 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Camera 5 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 6 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		

Camera 7 (DP)	6.0C-H5DH-DO1-IR	Storage 1	1	Built-In Lens, 3.35-7mm, f/1.93-f/2.90					15.17 Mbps			
<input type="checkbox"/> Head 1					5.3	12	7	Quality 6		X		
<input type="checkbox"/> Head 2					5.3	12	7	Quality 6		X		
Camera 8 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	> max	10	6	Quality 6	5.19 Mbps	X		
Camera 9 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	> max	10	6	Quality 6	5.19 Mbps	X		
Camera 10 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	15	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	15	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	15	Quality 6		X		
Camera 11 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Camera 12 (DP)	8.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.7	10	12	Quality 6	7.96 Mbps	X		
Camera 13 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.7	10	6	Quality 6	5.19 Mbps	X		

Camera 14 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.4	10	6	Quality 6	5.24 Mbps	X		
Camera 15 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.7	10	10	Quality 6	6.13 Mbps	X		
Camera 16 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.7	10	10	Quality 6	6.13 Mbps	X		
Camera 17 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.2	10	16	Quality 6	10.00 Mbps	X		
Camera 18 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.2	10	16	Quality 6	10.00 Mbps	X		
Camera 19 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	3	Quality 6	6.90 Mbps	X		
Camera 20 (PARA/POLE) Roof Door/Antenna Farm	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	13	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	13	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	13	Quality 6		X		
Camera 21 (DO) East Gate Pedestal	4.0C-H5A-DO1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	7.41 Mbps	X		
Camera 22 (DO) West Gate Pedestal	4.0C-H5A-DO1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	30	6	Quality 6	8.17 Mbps	X		

Camera 23 (DP/NPT) Shooting Range #1	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					19.69 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		
Camera 24 (DP/NPT) Shooting Range #2	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					19.69 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		
Camera 25 (DP/NPT) Fire Sim Bld. #1	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					19.69 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		
Camera 26 (DP/NPT) Fire Sim Bld. #2	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					19.69 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		
Camera 27 (DP/NPT) Fire Sim Bld. #3	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					19.69 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		

Camera 28 (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.7	10	6	Quality 6	5.19 Mbps	X		
Camera 29 (DP/NPT) Shooting Range #4	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					29.85 Mbps			
<input type="checkbox"/> Head 1					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	6	Quality 6		X		
Camera 30 (DP/NPT) Shooting Range #3	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					29.85 Mbps			
<input type="checkbox"/> Head 1					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	6	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	6	Quality 6		X		
Camera 31 (POLE) Gate Pole Cam	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Camera 32 (POLE) West Gate Pole Cam	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		

Camera 33 (POLE) 360 Pole cam between GRPSTK & Fire Sim	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8						29.85 Mbps			
<input type="checkbox"/> Head 1					4.0	8	10		Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	10		Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	10		Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	10		Quality 6		X		
Camera 34 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	7.5	10	14		Quality 6	10.00 Mbps	X		
Camera 35 (DO) 360 Front Lobby Door	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8						27.44 Mbps			
<input type="checkbox"/> Head 1					4.0	8	8		Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	8		Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	8		Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	6		Quality 6		X		
Camera 36 (DO) Stairwell 1	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	3		Quality 6	6.90 Mbps	X		
Stairwell 37 (DO) Stairwell 2	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	3		Quality 6	6.90 Mbps	X		
Camera 38 (DO) Elevator Cam w/ emcoder	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6		Quality 6	6.90 Mbps	X		
Camera 39 (POLE) Front Parking Lot 360 on Pole 1	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8						44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16		Quality 6		X		

<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		X		
Camera 40 (POLE) Front Parking Lot 360 on Pole 2	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		X		
Camera 41 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	15	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	15	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	15	Quality 6		X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 (DC)	8.5	6	100.7	133.4	62.4	342.5	23
Camera 2 (DC)	8.5	6	99.8	130	62.8	339.4	23.6
Camera 3 (CRNR)	18						
□ Head 1		6	73.9	150	48.3	110.8	25.6
□ Head 2		6	75.7	153.6	50.1	113.6	25
□ Head 3		6	78.3	158.7	48.9	117.4	24.2
Camera 4 (CRNR)	18						
□ Head 1		6	51.5	105.9	49.9	77.2	36.3
□ Head 2		6	73.2	148.7	47.3	109.8	25.8
□ Head 3		6	70.4	143.1	47.2	105.5	26.8
Camera 5 (DO)	8.5	6	23.1	42.9	44.5	78.6	60.4
Camera 6 (DO)	8.5	6	36.6	67.7	65	124.4	38.3
Camera 7 (DP)	8.5						
□ Head 1		6	16.5	16.8	59.1	56.1	121.6
□ Head 2		6	16.5	16.8	59.1	56.1	121.6
Camera 8 (DC)	8.5	6	96.2	57.4	82.8	327.2	40.2
Camera 9 (DC)	8.5	6	96.2	57.4	82.8	327.2	40.2
Camera 10 (CRNR)	18						
□ Head 1		6	80.4	162.8	55.2	120.5	23.6
□ Head 2		6	76.7	155.6	47.7	115.1	24.7
□ Head 3		6	85	172	50.3	127.5	22.3

Camera 11 (CRNR)	18						
□ Head 1		6	110.4	222.6	69.3	165.6	17.3
□ Head 2		6	91.8	185.6	51.5	137.7	20.7
□ Head 3		6	111.8	225.4	65.5	167.8	17
Camera 12 (DP)	8.5	6	67.8	79.5	68.6	230.4	48.3
Camera 13 (DC)	8.5	6	35	51.9	52.2	119	44.4
Camera 14 (DC)	8.5	6	35	55.9	49.3	119.1	41.2
Camera 15 (DC)	8.5	6	73.4	109	54.2	249.6	21.1
Camera 16 (DC)	8.5	6	83	123.2	54.5	282.1	18.7
Camera 17 (BO)	8.5	6	102.5	133.7	67.1	348.6	28.7
Camera 18 (BO)	8.5	6	98	127.8	67	333.2	30.1
Camera 19 (DO)	8.5	6	18.5	34.5	61.3	62.9	75.2
Camera 20 (PARA/POLE) Roof Door/Antenna Farm	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	16.5	33.4	64.9	56.1	114.8
□ Head 3		6	16.5	33.4	64.9	56.1	114.8
Camera 21 (DO) East Gate Pedestal	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 22 (DO) West Gate Pedestal	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 23 (DP/NPT) Shooting Range #1	8.5						
□ Head 1		6	36.9	74	71.6	125.3	51.9
□ Head 2		6	23.7	47.8	52.8	80.6	80.4
□ Head 3		6	21	42.3	64.8	71.3	90.7
Camera 24 (DP/NPT) Shooting Range #2	8.5						

□ Head 1		6	36.9	74	71.6	125.3	51.9
□ Head 2		6	23.7	47.8	52.8	80.6	80.4
□ Head 3		6	21	42.3	64.8	71.3	90.7
Camera 25 (DP/NPT) Fire Sim Bld. #1	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	16.5	33.4	64.9	56.1	114.8
□ Head 3		6	16.5	33.4	64.9	56.1	114.8
Camera 26 (DP/NPT) Fire Sim Bld. #2	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	16.5	33.4	64.9	56.1	114.8
□ Head 3		6	16.5	33.4	64.9	56.1	114.8
Camera 27 (DP/NPT) Fire Sim Bld. #3	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	16.5	33.4	64.9	56.1	114.8
□ Head 3		6	16.5	33.4	64.9	56.1	114.8
Camera 28 (DC)	8.5	6	47	69.8	53.2	159.9	33
Camera 29 (DP/NPT) Shooting Range #4	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	23.7	47.7	67.4	80.5	80.5
□ Head 3		6	36.6	73.5	69.4	124.4	52.3
□ Head 4		6	29.7	59.8	69.2	101.1	64.2
Camera 30 (DP/NPT) Shooting Range #3	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	23.7	47.7	67.4	80.5	80.5

□ Head 3		6	36.6	73.5	69.4	124.4	52.3
□ Head 4		6	29.7	59.8	69.2	101.1	64.2
Camera 31 (POLE) Gate Pole Cam	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	24.9	50.2	67.7	84.8	76.5
□ Head 3		6	33.3	67	78.6	113.3	57.3
Camera 32 (POLE) West Gate Pole Cam	8.5						
□ Head 1		6	16.5	33.4	64.9	56.1	114.8
□ Head 2		6	21.2	42.7	66.7	71.9	89.9
□ Head 3		6	25.2	50.7	67.7	85.6	75.7
Camera 33 (POLE) 360 Pole cam between GRPSTK & Fire Sim	8.5						
□ Head 1		6	28.1	56.5	60.7	95.5	67.9
□ Head 2		6	19	38.5	49.9	64.7	99.8
□ Head 3		6	36.6	73.5	69.4	124.4	52.3
□ Head 4		6	29.7	59.8	69.2	101.1	64.2
Camera 34 (BO)	8.5	6	112.7	115	72.1	383.2	33.4
Camera 35 (DO) 360 Front Lobby Door	8.5						
□ Head 1		6	56.2	112.7	56.2	191	34.1
□ Head 2		6	76.5	153.5	63.6	260.2	25
□ Head 3		6	70.8	142	55.6	240.7	27.1
□ Head 4		6	20.9	42.1	50.1	71	91.1
Camera 36 (DO) Stairwell 1	8.5	6	31.6	58.6	60.6	107.5	44.3
Stairwell 37 (DO) Stairwell 2	8.5	6	31.6	58.6	60.6	107.5	44.3

Camera 38 (DO) Elevator Cam w/ emcoder	8.5	6	31.6	58.6	60.6	107.5	44.3
Camera 39 (POLE) Front Parking Lot 360 on Pole 1	18						
<input type="checkbox"/> Head 1		6	56.2	115.1	47.4	84.2	33.4
<input type="checkbox"/> Head 2		6	62.7	128	55.1	94.1	30
<input type="checkbox"/> Head 3		6	56.5	115.7	46.4	84.7	33.2
<input type="checkbox"/> Head 4		6	40.2	84	41.6	60.3	45.7
Camera 40 (POLE) Front Parking Lot 360 on Pole 2	18						
<input type="checkbox"/> Head 1		6	56.2	115.1	47.4	84.2	33.4
<input type="checkbox"/> Head 2		6	62.7	128	55.1	94.1	30
<input type="checkbox"/> Head 3		6	56.5	115.7	46.4	84.7	33.2
<input type="checkbox"/> Head 4		6	40.2	84	41.6	60.3	45.7
Camera 41 (CRNR)	18						
<input type="checkbox"/> Head 1		6	80.4	162.8	55.2	120.5	23.6
<input type="checkbox"/> Head 2		6	76.7	155.6	47.7	115.1	24.7
<input type="checkbox"/> Head 3		6	75.8	153.7	49.4	113.6	25

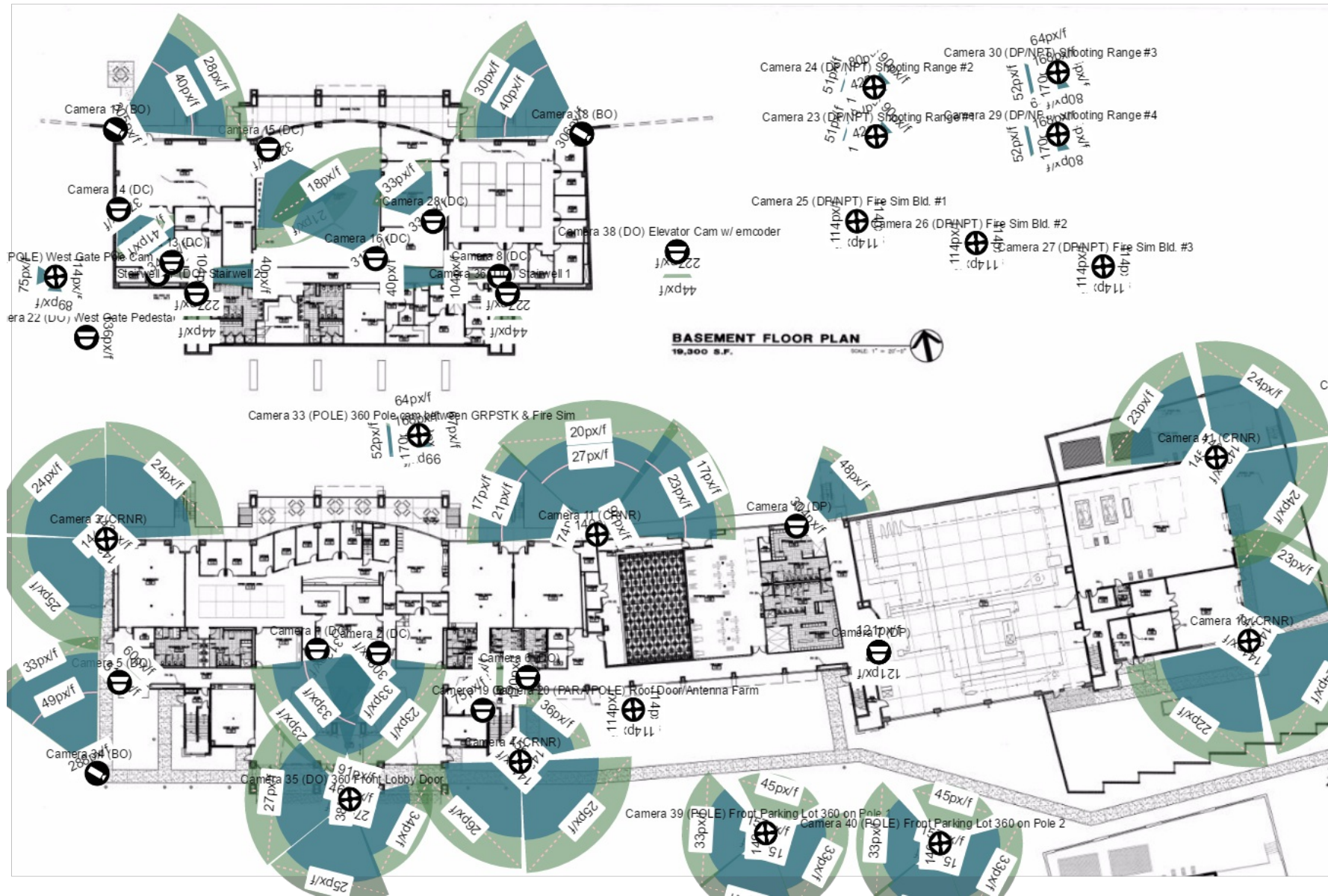
## Storage 1

Model: NVR4X-PRM-157TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
6.0C-H5A-DC1	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
6.0C-H5A-DC1	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
6.0C-H5DH-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours

24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
32C-H4A-4MH-360	1	47 days 0 hours	47 days 0 hours			0 days 0 hours
24C-H4A-3MH-270	1	47 days 0 hours	47 days 0 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

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## **Design Comments**

GRPSTC - 2nd Floor Design REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	NVR4X-PRM-157TB-NA	n/a	149.15 TB	127.78 Mbps	250 days 17 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 43 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 44 (DC)	6.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.1	10	8	Quality 6	7.67 Mbps	X		
Camera 45 (DC)	6.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.1	10	8	Quality 6	7.67 Mbps	X		
Camera 46 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 47 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	16	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	16	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	16	Quality 6		X		
Camera 48 (DP)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Camera 49 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.5	10	12	Quality 6	7.96 Mbps	X		
Camera 50 (DC)	12.0W-H5A-FE-DC1	Storage 1	1	Built-In Lens, 1.6mm, f/2.0, Fish Eye	1.6	10	10	Quality 6	10.02 Mbps	X		

## Scene Details

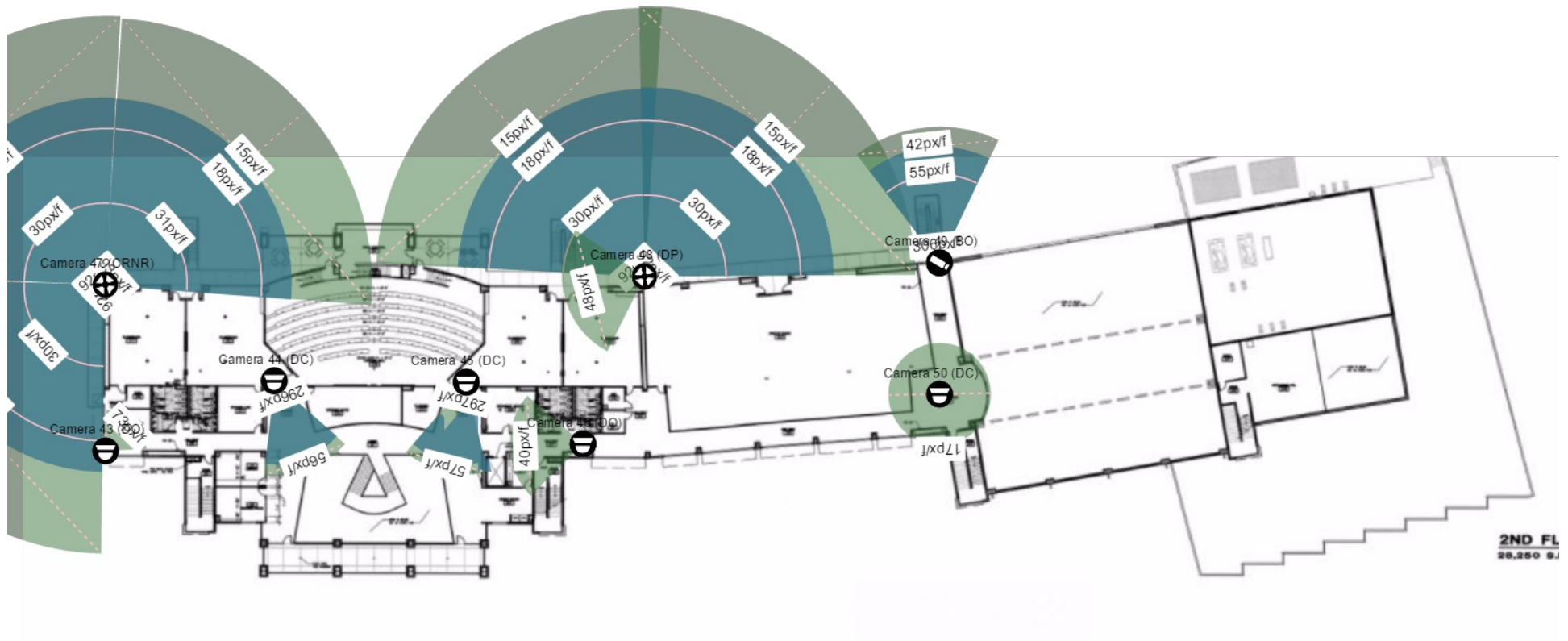
NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 43 (DO)	8.5	6	19	35.4	38.7	64.7	73.1
Camera 44 (DC)	8.5	6	53.6	54.7	67.5	182.2	56.2
Camera 45 (DC)	8.5	6	52.2	53.3	67.4	177.6	57.6
Camera 46 (DO)	8.5	6	34.3	63.4	42	116.5	40.9
Camera 47 (CRNR)	25						
□ Head 1		6	119.6	242.7	46.7	157.3	15.8
□ Head 2		6	119.6	242.7	46.7	157.4	15.8
□ Head 3		6	118.7	240.8	46.6	156.1	15.9
Camera 48 (DP)	25						
□ Head 1		6	119.5	242.6	46.7	157.3	15.8
□ Head 2		6	34.8	79.5	27.1	45.8	48.3
□ Head 3		6	120.5	244.4	46.7	158.5	15.7
Camera 49 (BO)	8.5	6	73.6	90.3	67.9	250.1	42.5
Camera 50 (DC)	8.5	6	32.4	64.9	0	110.3	17.5

## Storage 1

Model: NVR4X-PRM-157TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
5.0C-H5M-DO1-IR	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
6.0C-H5A-DC1-IR	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
6.0C-H5A-DC1-IR	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
24C-H4A-3MH-270	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
24C-H4A-3MH-270	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	250 days 17 hours	250 days 17 hours			0 days 0 hours
12.0W-H5A-FE-DC1	1	250 days 17 hours	250 days 17 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.10 City of Glendale-Landfill Weigh Station



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## **Design Comments**

Design-City of Glendale-Landfill Weigh Station REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	NVR4X-STD-32TB-S16-NA	n/a	30.4 TB	187.53 Mbps	43 days 8 hours	Valid

## Cameras

NAME	MODEL	NVR	QTY	LENS	FL. (MM)	IPS	DUTY CYCLE	COMPRESSION	BITRATE
WebCam 3 - Existing	3rd party camera	Storage 1	1	N/A		10	16	Quality 6	12.00 Mbps

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 ENTRANCE (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	9.40 Mbps	X		
Camera 2 EXT (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	12.31 Mbps	X		
Camera 4 EXT (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	12.31 Mbps	X		
Camera 5 EXT (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	12.31 Mbps	X		
Camera 6 EXT (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	> max	10	12	Quality 6	12.31 Mbps	X		
Camera 7 EXT (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	> max	10	12	Quality 6	12.31 Mbps	X		
Camera 8 ENTRANCE (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	9.40 Mbps	X		
Camera 9 ENTRANCE (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	9.40 Mbps	X		

Camera 10 ENTRANCE (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	10.43 Mbps	X		
Camera 11 ENTRANCE (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	9.40 Mbps	X		
Camera 12 ENTRANCE (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	10.43 Mbps	X		
Camera 13 Weight Station Fisheye (POLE)	12.0W-H5A-FE-DO1-IR	Storage 1	1	Built-In Lens, 1.6mm, f/2.0, Fish Eye	1.6	10	10	Quality 6	8.83 Mbps	X		
Camera 14 Weight Station Interior 1 Breakroom (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 15 Weight Station Interior 2 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 16 Weight Station Interior 3 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 17 Weight Station Interior 4 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 18 Weight Station Interior 5 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 19 Weight Station Interior 6 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		

Camera 20 Weight Station Interior 7 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 21 Weight Station Interior 8 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		
Camera 22 Weight Station Interior 9 (DC)	4.0C-H5A-DC1	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	5.4	10	10	Quality 6	5.19 Mbps	X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 ENTRANCE (BO)	8	6	33.5	31.5	71.2	133.9	121.8
Camera 2 EXT (POLE)	8	6	46.2	43.5	72.2	184.9	88.2
WebCam 3 - Existing	8	6	160.9	26.7	86.6	643.5	172.7
Camera 4 EXT (POLE)	8	6	42.9	40.4	72	171.6	95.1
Camera 5 EXT (POLE)	8	6	55.9	52.6	72.6	223.7	73
Camera 6 EXT (POLE)	8	6	53	49.9	72.5	212	77
Camera 7 EXT (POLE)	8	6	90.8	85.4	73.4	363.1	45
Camera 8 ENTRANCE (POLE)	8	6	35	33	71.4	140	116.4
Camera 9 ENTRANCE (POLE)	8	6	39.3	37	71.7	157.2	103.7
Camera 10 ENTRANCE (POLE)	8	6	51.4	48.4	72.4	205.5	79.4
Camera 11 ENTRANCE (POLE)	8	6	49.9	47	72.4	199.7	81.7
Camera 12 ENTRANCE (BO)	8	6	29.3	27.6	70.8	117.2	139.1
Camera 13 Weight Station Fisheye (POLE)	8.5	6	16.5	33	0	56.1	35.8
Camera 14 Weight Station Interior 1 Breakroom (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 15 Weight Station Interior 2 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 16 Weight Station Interior 3 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 17 Weight Station Interior 4 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 18 Weight Station Interior 5 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 19 Weight Station Interior 6 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 20 Weight Station Interior 7 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8

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Camera 21 Weight Station Interior 8 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8
Camera 22 Weight Station Interior 9 (DC)	8.5	6	16.5	16.8	59.1	56.1	136.8

## Storage 1

Model: NVR4X-STD-32TB-S16-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
3rd party camera	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
12.0W-H5A-FE-DO1-IR	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours

4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours
4.0C-H5A-DC1	1	43 days 8 hours	43 days 8 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.11 City of Glendale-Landfill B C Buildings



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## **Design Comments**

Design-City of Glendale-Landfill Bld B and C REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	VMA-AS3-24P24-NA	n/a	22.8 TB	173.64 Mbps	41 days 5 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 (BO)	5.0C-H5A-BO2-IR	Storage 1	1	Built-In Lens, 9-22mm, f/1.6, P-Iris, Vari Focal	22.0	10	12	Quality 6	6.97 Mbps	X		
Camera 2 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					35.48 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 3 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					35.48 Mbps			
<input type="checkbox"/> Head 1					4.0	12	8	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	8	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	8	Quality 6		X		
Camera 4 (CRNR)	15C-H4A-3MH-270	Storage 1	1	Built-In Lens, 2.8mm, f/1.2					34.74 Mbps			
<input type="checkbox"/> Head 1					2.8	15	6	Quality 6		X		
<input type="checkbox"/> Head 2					2.8	15	6	Quality 6		X		
<input type="checkbox"/> Head 3					2.8	15	6	Quality 6		X		
Camera 5 (Intercom)	3.0C-H4VI-RO1-IR	Storage 1	1	Built-In Lens, 1.83mm, f/2.4, IR Corrected	1.83	10	6	Quality 6	5.49 Mbps	X		
Camera 6 (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					35.48 Mbps			

<input type="checkbox"/> Head 1					4.0	12	8	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	8	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	8	Quality 6		X		
Camera 7 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.7	10	10	Quality 6	10.00 Mbps	X		
Camera 8 (BO)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.1	10	10	Quality 6	10.00 Mbps	X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 (BO)	10	6	296.8	72.6	84	742	35.7
Camera 2 (CRNR)	10						
<input type="checkbox"/> Head 1		6	85.4	171.4	53	213.6	22.4
<input type="checkbox"/> Head 2		6	62.3	125.1	52	155.8	30.7
<input type="checkbox"/> Head 3		6	61.4	123.3	52	153.5	31.1
Camera 3 (CRNR)	10						
<input type="checkbox"/> Head 1		6	71.8	144.2	52.5	179.6	26.6
<input type="checkbox"/> Head 2		6	68.4	137.3	52.3	170.9	28
<input type="checkbox"/> Head 3		6	68.7	138	52.4	171.8	27.8
Camera 4 (CRNR)	10						
<input type="checkbox"/> Head 1		9	61.4	112.4	45.8	614.3	23.1
<input type="checkbox"/> Head 2		9	63.9	116.9	45.8	639.2	22.2
<input type="checkbox"/> Head 3		9	62.9	115.1	45.8	629.3	22.5
Camera 5 (Intercom)	4	6	16.5	380	74.6	2000	5.4
Camera 6 (CRNR)	10						
<input type="checkbox"/> Head 1		6	71.5	143.5	52.5	178.8	26.8
<input type="checkbox"/> Head 2		6	71.8	144.2	52.5	179.6	26.6
<input type="checkbox"/> Head 3		6	73.1	146.7	52.6	182.7	26.2
Camera 7 (BO)	8.5	6	33.6	49.4	61.4	114.3	77.7
Camera 8 (BO)	8.5	6	23.2	39.3	55.6	79	97.7

## Storage 1

Model: VMA-AS3-24P24-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
5.0C-H5A-BO2-IR	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
24C-H4A-3MH-270	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
24C-H4A-3MH-270	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
15C-H4A-3MH-270	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
3.0C-H4VI-RO1-IR	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
24C-H4A-3MH-270	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	41 days 5 hours	41 days 5 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	41 days 5 hours	41 days 5 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.12 City of Glendale-O'Neil Rec Center



# CoG O'Neil

Mike Bowers

Version: 1.0

## HD NVRs

Name	Model	Expansions	Storage	Total Data	Storage Time	Status
Storage 1	NVR5-STD-48TB-- S19-NA	-	45.6 TB	243.44 Mbps	45 days 14 hours	Valid

## HDSM Smart Cameras

Name	Model	Storage	Qty	Lens	FL. (mm)	Image Rate	Daily Recording Cycle	Image Quality	Max Bandwidth	HDSM Smartcodec		
										Enabled	Strength	Min Image Rate
Computer Room (DC)	5.0C--H5M-DO1--IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	9	Quality 6	10.42 Mbps	×		×
Lobby (DC)	5.0C--H5M-DO1--IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	9	Quality 6	10.42 Mbps	×		×
Office (DC)	2.0C--H5M-DO1--IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	10	Quality 6	6.23 Mbps	×		×
NE Corner (CRNR)	24C-H4A--3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8				Quality 6	40.32 Mbps	×		×
Head 1					4.0	12	12	Quality 6		×		×
Head 2					4.0	12	12	Quality 6		×		×
Head 3					4.0	12	12	Quality 6		×		×
Food Storage Room (DO)	8.0C-H5A--FE-DO1	Storage 1	1	Built-In Lens, 1.4mm, f/2.0, Fish Eye	1.4	10	6	Quality 6	5.44 Mbps	×		×
	5.0C--H5SL-D1	Storage 1	1	Built-In Lens,	3.1	10	9	Quality 6	10.42 Mbps	×		×

Multipurpose Room 107 (DC)				3.1--8.4mm, f/1.6, P-Iris, Vari Focal							
NW Corner (CRNR)	24C-H4A--3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8				Quality 6	40.32 Mbps	×	×
Head 1					4.0	12	12	Quality 6		×	×
Head 2					4.0	12	12	Quality 6		×	×
Head 3					4.0	12	12	Quality 6		×	×
SE Corner (CRNR)	24C-H4A--3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8				Quality 6	40.32 Mbps	×	×
Head 1					4.0	12	12	Quality 6		×	×
Head 2					4.0	12	12	Quality 6		×	×
Head 3					4.0	12	12	Quality 6		×	×
Exterior entrance (DP)	8.0C-H5A--DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	4.9	10	10	Quality 6	7.96 Mbps	×	×
SW Corner (CRNR)	24C-H4A--3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8				Quality 6	40.32 Mbps	×	×
Head 1					4.0	12	12	Quality 6		×	×
Head 2					4.0	12	12	Quality 6		×	×

Head 3				4.0	12	12	Quality 6		×	×
Multipurpose 5.0C-- Room 107 (DC)	Storage 1	1	Built-In Lens, 3.1-- 8.4mm, f/1.6, P-Iris, Vari Focal	3.4	10	9	Quality 6	10.42 Mbps	×	×
Multipurpose 5.0C-- Room 106 (DC)	Storage 1	1	Built-In Lens, 3.1-- 8.4mm, f/1.6, P-Iris, Vari Focal	3.3	10	9	Quality 6	10.42 Mbps	×	×
Multipurpose 5.0C-- Room 106 (DC)	Storage 1	1	Built-In Lens, 3.1-- 8.4mm, f/1.6, P-Iris, Vari Focal	3.3	10	9	Quality 6	10.42 Mbps	×	×

## Scene Details

Name	Mounting Height (ft)	Target Height (ft)	Target Distance (ft)	Scene Width (ft)	Mounting Angle	Maximum Distance (ft)	px/ft
Computer Room (DC)	8.5	6	14.4	26.9	36.3	48.9	96.2
Lobby (DC)	8.5	6	13.9	26	35.9	47.1	99.6
Office (DC)	8.5	6	4.6	11.9	21.6	15.6	161.1
NE Corner (CRNR)		0	0	0	0	0	0
Head 1	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 2	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 3	8.5	6	16.5	33.4	47.1	56.1	114.8
Food Storage Room (DO)	15.5	6	4.8	9.5	0	7.8	61.9
Multipurpose Room 107 (DC)	15.5	6	23.1	39.7	31	37.6	65.3
NW Corner (CRNR)		0	0	0	0	0	0
Head 1	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 2	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 3	8.5	6	16.5	33.4	47.1	56.1	114.8
SE Corner (CRNR)		0	0	0	0	0	0
Head 1	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 2	8.5	6	16.5	33.4	47.1	56.1	114.8

Head 3	8.5	6	18	36.4	47.8	61.2	105.5
Exterior entrance (DP)	8.5	6	14.6	26.5	50.1	49.6	144.9
SW Corner (CRNR)		0	0	0	0	0	0
Head 1	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 2	8.5	6	16.5	33.4	47.1	56.1	114.8
Head 3	8.5	6	16.5	33.4	47.1	56.1	114.8
Multipurpose Room 107 (DC)	15.5	6	24	38.6	34.2	39.1	67.1
Multipurpose Room 106 (DC)	15.5	6	24.3	39.2	34.4	39.7	66.2
Multipurpose Room 106 (DC)	15.5	6	25	40.3	34.8	40.9	64.3

# Storage 1

Model: NVR5-STD-48TB-S19-NA

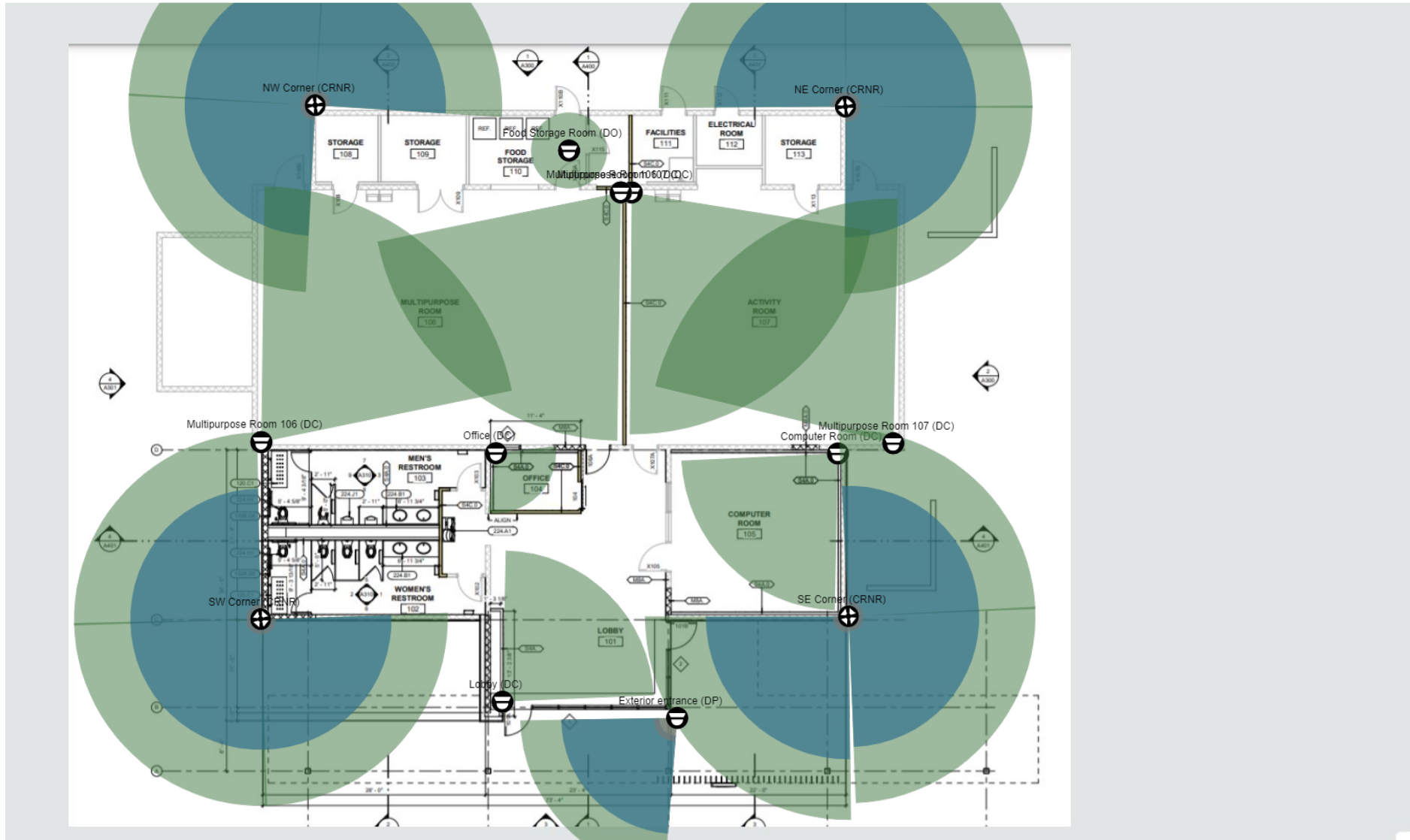
Record Times

Model	Qty	Total Days	Full Days	Half Days	Quarter Days	Low Res. Days
5.0C-H5M-DO1-IR	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
2.0C-H5M-DO1-IR	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
24C-H4A-3MH-270	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
8.0C-H5A-FE-DO1	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
5.0C-H5SL-D1	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
24C-H4A-3MH-270	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
24C-H4A-3MH-270	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
24C-H4A-3MH-270	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
5.0C-H5SL-D1	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
5.0C-H5SL-D1	1	45 days 14 hours	45 days 14 hours			0 days 0 hours
5.0C-H5SL-D1	1	45 days 14 hours	45 days 14 hours			0 days 0 hours

## Map



# O'Neill Community Center: 1



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.13 City of Glendale-Rose Lane Youth Center



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## **Design Comments**

CoG Rose Lane Youth Center

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	NVR4X-STD-48TB-NA	n/a	45.6 TB	265.36 Mbps	44 days 6 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Pump House (2) w/ Point-to-Point. Will need power available. (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
North (front) Corner of Rec Center (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
South (back) of Rec Center (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Entrance (DO)	2.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	10	Quality 6	5.80 Mbps	X		
Recreation Room North (DO)	12.0W-H5A-FE-DO1	Storage 1	1	Built-In Lens, 1.6mm, f/2.0, Fish Eye	1.6	12	10	Quality 6	17.39 Mbps	X		

Recreation Room South (DO)	12.0W-H5A-FE-DO1	Storage 1	1	Built-In Lens, 1.6mm, f/2.0, Fish Eye	1.6	12	10	Quality 6	17.39 Mbps	X		
South (back) of Rec Center (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					26.41 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Camera 1 (DO)	12.0W-H5A-FE-DO1	Storage 1	1	Built-In Lens, 1.6mm, f/2.0, Fish Eye	1.6	12	10	Quality 6	9.58 Mbps	X		
Pump House (1) w/ Point-to-Point. Will need power available. (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.30 Mbps			
<input type="checkbox"/> Head 1					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	6	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	6	Quality 6		X		
Camera 2 - Computer Lab (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.8	10	10	Quality 6	6.13 Mbps	X		
Camera 3 - Park Bathroom #1 (BO)	6.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.1	10	10	Quality 6	7.67 Mbps	X		
Camera 4 - Park Bathroom #2 (BO)	6.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.1	10	10	Quality 6	7.67 Mbps	X		
Camera New Back Hallway (Location ???) (DC)	4.0C-H5A-DC1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	9.0	10	10	Quality 6	6.13 Mbps	X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Pump House (2) w/ Point-to-Point. Will need power available. (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	46.3	92.9	52.6	157.3	41.3
<input type="checkbox"/> Head 2		6	54.4	109.2	53.1	185.1	35.2
<input type="checkbox"/> Head 3		6	46.1	92.5	52.6	156.7	41.5
North (front) Corner of Rec Center (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	53.7	107.6	53	182.4	35.7
<input type="checkbox"/> Head 2		6	46	92.4	52.6	156.5	41.6
<input type="checkbox"/> Head 3		6	42.9	86.2	52.4	145.9	44.6
South (back) of Rec Center (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	49.8	99.9	52.8	169.2	38.5
<input type="checkbox"/> Head 2		6	39.4	79.2	52.1	134.1	48.5
<input type="checkbox"/> Head 3		6	38.1	76.6	51.9	129.6	50.2
Entrance (DO)	8.5	6	9.2	21.8	35	31.4	88
Recreation Room North (DO)	8.5	6	16.5	33	0	56.1	35.8
Recreation Room South (DO)	8.5	6	16.5	33	0	56.1	35.8
South (back) of Rec Center (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	50.7	101.7	52.9	172.3	37.8
<input type="checkbox"/> Head 2		6	43.1	86.5	52.4	146.5	44.4
<input type="checkbox"/> Head 3		6	40.4	81.1	52.1	137.3	47.3
Camera 1 (DO)	8.5	6	11.7	23.4	0	39.8	52

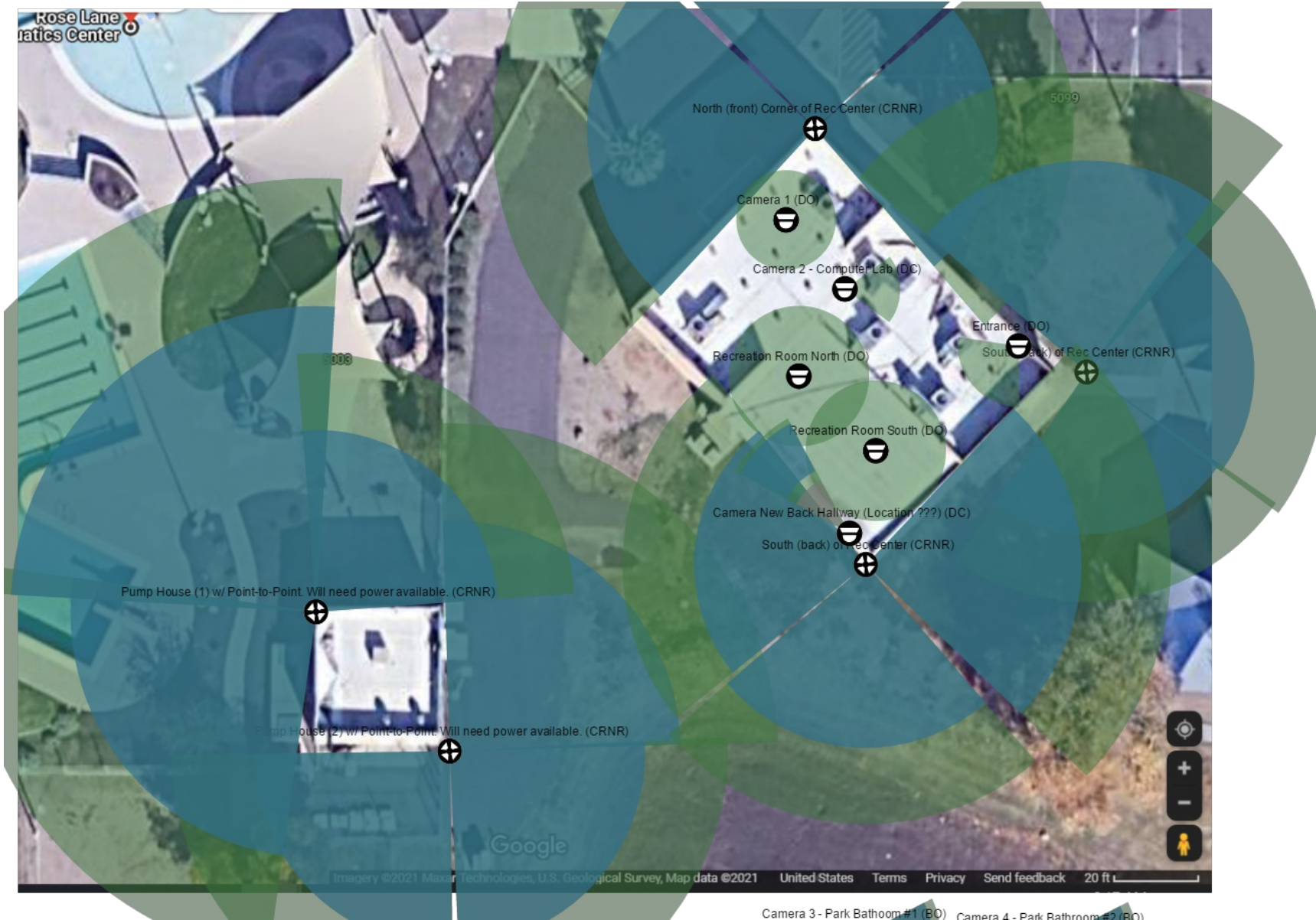
Pump House (1) w/ Point-to-Point. Will need power available. (CRNR)	8.5						
<input type="checkbox"/> Head 1		6	57.9	116.1	53.2	196.7	33.1
<input type="checkbox"/> Head 2		6	72	144.3	53.7	244.7	26.6
<input type="checkbox"/> Head 3		6	42.9	86.2	52.4	145.9	44.6
Camera 2 - Computer Lab (DC)	8.5	6	10.5	15.4	44.3	35.8	149.5
Camera 3 - Park Bathroom #1 (BO)	8.5	6	16.5	16.8	61.7	56.1	182.4
Camera 4 - Park Bathroom #2 (BO)	8.5	6	16.5	16.8	61.7	56.1	182.4
Camera New Back Hallway (Location ???) (DC)	8.5	6	29.4	17.6	72.2	99.9	131.1

## Storage 1

Model: NVR4X-STD-48TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
24C-H4A-3MH-270	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
2.0C-H5M-DO1-IR	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
12.0W-H5A-FE-DO1	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
12.0W-H5A-FE-DO1	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
12.0W-H5A-FE-DO1	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
24C-H4A-3MH-270	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	44 days 6 hours	44 days 6 hours			0 days 0 hours
4.0C-H5A-DC1-IR	1	44 days 6 hours	44 days 6 hours			0 days 0 hours



Camera 3 - Park Bathroom #1 (DO) Camera 4 - Park Bathroom #2 (DO)

## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.14 City of Glendale-Sahuaro Ranch Park Sports Complex



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## **Design Comments**

Glendale - Saguaro Ranch Athletic Park REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	NVR4X-PRM-96TB-NA	n/a	91.2 TB	534.72 Mbps	31 days 18 hours	Valid

**HDSM Smart Cameras**

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1-SW Parking Entrance (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	12	Quality 6	9.40 Mbps	X		
Camera 2 - SW Parking/Dog Park (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1
Camera 3 - SW Parking (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1

Camera 4 - SW Parking (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1
Camera 7-Playground/Volley (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1
Camera 11-SE Parking (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1

<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1
Camera 17-Gate Access to Barn (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	14	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	14	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	14	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	14	Quality 6		✓	Medium (Default)	1
Camera 18-Playground Middle (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					44.71 Mbps			
<input type="checkbox"/> Head 1					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	14	Quality 6		X		
Camera 19-Restroom 2 (DO)	4.0C-H5A-DO1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	3.4	10	16	Quality 6	4.54 Mbps	✓	Medium (Default)	1
Camera 21-Concessions (CRNR)	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		

Camera 22-NW Parking Entrance (POLE)	8.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	7.9	10	14	Quality 6	9.40 Mbps	X		
Camera 23-NW Parking Lot (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					27.65 Mbps			
<input type="checkbox"/> Head 1					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 2					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 3					4.0	8	16	Quality 6		✓	Medium (Default)	1
<input type="checkbox"/> Head 4					4.0	8	16	Quality 6		✓	Medium (Default)	1
Camera 24-North Entrance (POLE)	8.0C-H5A-DO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.0	10	10	Quality 6	7.42 Mbps	✓	Medium (Default)	1
Camera 25-PTZ	2.0C-H4IRPTZ-DP30-WP	Storage 1	1	Built-In Lens, 4.3-129mm, f/1.6-f/4.7	13.8	30	20	Quality 6	12.00 Mbps	X		
Camera 5 South Parking (POLE)	32C-H4A-4MH-360	Storage 1	1	Built-In Lens, 4mm, f/1.8					44.67 Mbps			
<input type="checkbox"/> Head 1					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	8	14	Quality 6		X		
<input type="checkbox"/> Head 4					4.0	8	14	Quality 6		X		
Camera 26-South Entrance (DP Pole) (1)	8.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.0	10	10	Quality 6	7.42 Mbps	✓	Medium (Default)	1

Camera 21- Concessions (CRNR)	24C-H4A- 3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Grill Ramada 1 (DP)	24C-H4A- 3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	14	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	14	Quality 6		X		
Grill Ramada 2 (CRNR)	24C-H4A- 3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		
Grill Ramada 3 (CRNR)	24C-H4A- 3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	12	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	12	Quality 6		X		

## Scene Details

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1-SW Parking Entrance (POLE)	12	6	60.8	57.5	69	121.6	66.8
Camera 2 - SW Parking/Dog Park (POLE)	12						
<input type="checkbox"/> Head 1		6	46.8	94.5	48.4	93.6	40.6
<input type="checkbox"/> Head 2		6	43.8	88.6	47.9	87.6	43.4
<input type="checkbox"/> Head 3		6	43.6	88.1	47.8	87.1	43.6
<input type="checkbox"/> Head 4		6	49.3	99.6	48.8	98.7	38.6
Camera 3 - SW Parking (POLE)	12						
<input type="checkbox"/> Head 1		6	42.6	86.3	47.7	85.3	44.5
<input type="checkbox"/> Head 2		6	42.5	85.9	47.6	84.9	44.7
<input type="checkbox"/> Head 3		6	50.8	102.5	49	101.5	37.5
<input type="checkbox"/> Head 4		6	49.8	100.6	48.8	99.7	38.2
Camera 4 - SW Parking (POLE)	12						
<input type="checkbox"/> Head 1		6	49.1	99.1	48.7	98.2	38.8
<input type="checkbox"/> Head 2		6	46.9	94.7	48.4	93.8	40.5
<input type="checkbox"/> Head 3		6	48.7	98.4	48.7	97.5	39
<input type="checkbox"/> Head 4		6	47.8	96.6	48.5	95.7	39.7
Camera 7-Playground/Volley (POLE)	12						
<input type="checkbox"/> Head 1		6	46.3	93.6	48.3	92.6	41
<input type="checkbox"/> Head 2		6	45.9	92.7	48.2	91.8	41.4

□ Head 3		6	43.9	88.9	47.9	87.9	43.2
□ Head 4		6	36.8	74.8	46.4	73.7	51.3
Camera 11-SE Parking (POLE)	14						
□ Head 1		6	76.1	153.3	49.7	133.1	25
□ Head 2		6	81.4	163.9	50.1	142.4	23.4
□ Head 3		6	87.3	175.7	50.5	152.8	21.9
□ Head 4		6	80.9	162.9	50	141.5	23.6
Camera 17-Gate Access to Barn (POLE)	12						
□ Head 1		6	48	96.9	48.6	95.9	39.6
□ Head 2		6	50.8	102.6	49	101.7	37.4
□ Head 3		6	49.1	99.1	48.7	98.2	38.7
□ Head 4		6	48.1	97.1	48.6	96.2	39.5
Camera 18-Playground Middle (POLE)	8.5						
□ Head 1		6	63.1	126.6	53.4	214.5	30.3
□ Head 2		6	66.6	133.5	53.5	226.4	28.8
□ Head 3		6	64	128.4	53.5	217.7	29.9
□ Head 4		6	82.6	165.5	54	280.7	23.2
Camera 19-Restroom 2 (DO)	8.5	6	55.3	89.3	50.2	188.1	25.8
Camera 21-Concessions (CRNR)	8.5						
□ Head 1		6	43.5	87.4	52.4	148	44
□ Head 2		6	48.7	97.7	52.8	165.5	39.3
□ Head 3		6	42.9	86.1	52.4	145.8	44.6

Camera 22-NW Parking Entrance (POLE)	12	6	63.6	61.3	69	127.2	62.6
Camera 23-NW Parking Lot (POLE)	12						
□ Head 1		6	82.4	165.5	51.5	164.8	23.2
□ Head 2		6	65.8	132.4	50.5	131.5	29
□ Head 3		6	63.8	128.3	50.3	127.5	29.9
□ Head 4		6	66	132.8	50.5	132	28.9
Camera 24-North Entrance (POLE)	8.5	6	68.6	119.7	58.6	233.4	32.1
Camera 25-PTZ	45	6	400	151.1	78.4	461.5	12.7
Camera 5 South Parking (POLE)	8.5						
□ Head 1		6	39.6	79.4	52.1	134.5	48.3
□ Head 2		6	45.9	92.1	52.6	156.1	41.7
□ Head 3		6	46	92.2	52.6	156.2	41.6
□ Head 4		6	46	92.2	52.6	156.3	41.6
Camera 26-South Entrance (DP Pole) (1)	8.5	6	90.2	157.3	59.1	306.8	24.4
Camera 21-Concessions (CRNR)	8.5						
□ Head 1		6	43.5	87.4	52.4	148	44
□ Head 2		6	48.8	98	52.8	166	39.2
□ Head 3		6	42.9	86.1	52.4	145.8	44.6
Grill Ramada 1 (DP)	8.5						
□ Head 1		6	19.6	39.7	48.4	66.7	96.8
□ Head 2		6	24	48.3	49.7	81.5	79.5
□ Head 3		6	22.5	45.4	49.4	76.5	84.6

Grill Ramada 2 (CRNR)	8.5						
□ Head 1		6	23	46.4	49.5	78.3	82.8
□ Head 2		6	22.4	45.1	49.3	76	85.2
□ Head 3		6	24.9	50.2	50	84.7	76.6
Grill Ramada 3 (CRNR)	8.5						
□ Head 1		6	23	46.4	49.5	78.3	82.8
□ Head 2		6	22.4	45.1	49.3	76	85.2
□ Head 3		6	24.9	50.2	50	84.7	76.6

## Storage 1

Model: NVR4X-PRM-96TB-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
8.0C-H5A-BO1-IR	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
4.0C-H5A-DO1-IR	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
24C-H4A-3MH-270	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
8.0C-H5A-BO1-IR	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
8.0C-H5A-DO1-IR	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
2.0C-H4IRPTZ-DP30-WP	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
32C-H4A-4MH-360	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
24C-H4A-3MH-270	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
24C-H4A-3MH-270	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
24C-H4A-3MH-270	1	31 days 18 hours	31 days 18 hours			0 days 0 hours

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24C-H4A-3MH-270	1	31 days 18 hours	31 days 18 hours			0 days 0 hours
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## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.

## 10.1.15 City of Glendale-Sine Building



Send this PDF to Sales at Avigilon ([sales@avigilon.com](mailto:sales@avigilon.com)) or your local Avigilon representative to receive a quote on this design.

## **Design Comments**

Design-Sine Bld Design REV1

## HD NVRs

NAME	MODEL	EXPANSIONS	STORAGE	TOTAL DATA	STORAGE TIME	STATUS
Storage 1	VMA-AS3-24P24-NA	n/a	22.8 TB	132.70 Mbps	40 days 17 hours	Valid

## HDSM Smart Cameras

NAME	MODEL	STORAGE	QTY	LENS	FL. (MM)	IMAGE RATE	DAILY RECORDING CYCLE	IMAGE QUALITY	MAX BANDWIDTH	HDSM SMARTCODEC		
										ENABLED	STRENGTH	MIN IMAGE RATE
Camera 1 (CRNR)Corner under patio	24C-H4A-3MH-270	Storage 1	1	Built-In Lens, 4mm, f/1.8					40.32 Mbps			
<input type="checkbox"/> Head 1					4.0	12	16	Quality 6		X		
<input type="checkbox"/> Head 2					4.0	12	16	Quality 6		X		
<input type="checkbox"/> Head 3					4.0	12	16	Quality 6		X		
Camera 2 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	7.05 Mbps	X		
Camera 3 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 4 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 5 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	7.20 Mbps	X		
Camera 6 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	6.90 Mbps	X		
Camera 7 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	3.34 Mbps	X		
Camera 8 (DP) 2nd Floor Patio	4.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 3.3-9mm, f/1.3, P-Iris, Vari Focal	4.6	10	16	Quality 6	7.41 Mbps	X		
Camera 9 (BO)	6.0C-H5A-BO1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.0	10	14	Quality 6	9.61 Mbps	X		

Camera 10 (DO)	5.0C-H5M-DO1-IR	Storage 1	1	Built-In Lens, 2.8mm, f/1.2	2.8	10	6	Quality 6	7.05 Mbps	X		
Camera 11 (DP)	8.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	5.2	10	14	Quality 6	10.00 Mbps	X		
Camera 12 (DP)	8.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	6.9	10	14	Quality 6	10.00 Mbps	X		
Camera 13 (DP)	8.0C-H5A-DP1-IR	Storage 1	1	Built-In Lens, 4.9-8mm, f/1.8, P-Iris, Vari Focal	8.0	10	14	Quality 6	10.00 Mbps	X		

**Scene Details**

NAME	MOUNTING HEIGHT (FT)	TARGET HEIGHT (FT)	TARGET DISTANCE (FT)	SCENE WIDTH (FT)	MOUNTING ANGLE	MAXIMUM DISTANCE (FT)	PX/FT
Camera 1 (CRNR)Corner under patio	8.5						
<input type="checkbox"/> Head 1		6	21.4	43.1	49	72.7	89
<input type="checkbox"/> Head 2		6	21.1	42.6	48.9	71.8	90.2
<input type="checkbox"/> Head 3		6	21.7	43.8	49.1	73.9	87.6
Camera 2 (DO)	8.5	6	13.7	25.7	35.8	46.6	100.7
Camera 3 (DO)	8.5	6	14.8	27.7	36.6	50.3	93.5
Camera 4 (DO)	8.5	6	7.1	13.9	26.8	24.2	186
Camera 5 (DO)	8.5	6	6.5	12.8	25.1	22.1	201.8
Camera 6 (DO)	8.5	6	7.7	15	28.3	26.3	172.4
Camera 7 (DO)	8.5	6	18.5	34.6	38.5	63.1	75
Camera 8 (DP) 2nd Floor Patio	20	6	45.2	56.8	46.1	64.6	40.5
Camera 9 (BO)	8.5	6	38.1	49.2	60.8	129.7	62.4
Camera 10 (DO)	8.5	6	10.1	19.2	32.2	34.2	135.2
Camera 11 (DP)	8.5	6	25.3	42.4	56.3	85.9	90.5
Camera 12 (DP)	8.5	6	36.7	41.9	67.4	124.8	91.7
Camera 13 (DP)	8.5	6	44.3	41.8	71.4	150.7	91.9

## Storage 1

Model: VMA-AS3-24P24-NA

### Record Times

MODEL	QTY	TOTAL DAYS	FULL DAYS	HALF DAYS	QUARTER DAYS	LOW RES. DAYS
24C-H4A-3MH-270	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
4.0C-H5A-DP1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
6.0C-H5A-BO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
5.0C-H5M-DO1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours
8.0C-H5A-DP1-IR	1	40 days 17 hours	40 days 17 hours			0 days 0 hours



## Reference Image



Reference images are captured under ideal conditions. Poor lighting, increased compression, or use of a lower quality lens will affect the quality of the images captured.