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**CALAVERAS COUNTY  
SHERIFF'S DEPARTMENT**

**Sheriff's Administration Building  
and  
Emergency Operations Center  
Architectural Program**

Revision 00; April 2, 2007





## 1.0 Executive Summary

Item No.:

1.000

This architectural program was written to resolve planning and design issues in order to conserve Calaveras County resources while providing an urgently needed new Sheriff's Administration Building (SAB) and Emergency Operations Center (EOC) in San Andreas, California. This document provides the necessary guidelines for a new SAB and EOC. The new SAB and EOC will replace antiquated and inefficient existing facilities.

All spaces in the new SAB and EOC must meet ADA accessibility standards as required by the U.S. Department of Justice.

This architectural space program discusses each planned space, and provides the rationale for planning decisions. Net square footage (NSF) is identified for each space within an area (e.g. staff support facilities, office space, space for weapons and tactical equipment, the emergency operations center and emergency communications center, etc.). These net square footage calculations then are multiplied by the appropriate net-to-gross factors to arrive at the total building gross square footage (BGSF) requirements for each component. Finally the total BGSF requirements are used to determine the total square footage required for construction. The planned enclosed interior total gross square footage of the new construction is 37,155 BGSF. 10,750 BGSF of exterior spaces are programmed. A site development allowance of 20,000 BGSF is programmed resulting in a total acreage requirement of 1.56 acres.

Building construction elements are described in order to arrive at an accurate probable construction cost. The total probable construction cost for the new Calaveras County Sheriff's Administration Building and Emergency Operations Center is estimated to be \$\_\_\_\_\_.

The proposed SAB and EOC will be sited at county owned property located \_\_\_\_\_.

## 2.0 Introduction

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2.000

Detailed architectural programs are developed prior to most architectural design efforts in order to preserve clients' resources. Early identification and resolution of major design issues always reduces the need for more expensive changes later in the progress of the project. It is therefore more cost effective to develop an accurate architectural program. In this case resources are limited and this architectural program has been written to develop and confirm early planning decisions in order to assist Calaveras County in meeting the requirements associated with any grant funds that may be available, such as those from Homeland Security.

The purpose of this architectural program is to resolve major planning issues so that this project can proceed on an aggressive schedule. More precise details (e.g. precise equipment placement, location of movable furniture, the placement of equipment racks, etc.) will be

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addressed during schematic design.

### 3.0 Americans with Disabilities Act (ADA)

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3.000 Appropriate spaces in the new SAB and EOC must meet ADA accessibility standards as required by the U.S. Department of Justice. Waivers of ADA requirements generally have not been granted (especially when federal grant funds are used).

### 4.0 Architectural Space Program

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4.000 **Architectural Space Program.** The architectural space program discusses each planned space and provides the rationale for planning decisions.

4.001 **Sheriff's Administration Building.**

**Introduction.** Command and administrative staff require adequate space for daily office and other administrative activities. Space for office machines and storage is required. Conference rooms and interview rooms, and other support space will be provided. All administrative spaces will reflect the professionalism of staff and the importance of public safety to the citizens of Calaveras County.

Conference, briefing, training and interview rooms are included.

Secure space is provided for the processing and storage of evidence and property.

Space is programmed for the secure storage, cleaning and maintenance of standard and special weapons that are organic to the Sheriff's Department. Space also is provided for the storage of tactical equipment.

A dispatch/communications center is provided along with a communications/server room.

Staff spaces include briefing and training rooms along with locker rooms and shower/restroom facilities.

Public space is programmed including a reception area, children's play area and restrooms.

Exterior space is included for official and staff vehicles, public parking, evidence storage and processing and general storage.

**Discussion and Recommendations.** Space is programmed to meet the Department's needs through 2030.

Security is paramount. A PC based proximity reader cardkey system is required. The system should maintain data on all access and egress

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including location, card used for access, time of activity, etc. The system must be capable of limiting access to controlled spaces (e.g. command staff offices, weapons storage and maintenance areas, evidence and property storage areas, file storage, etc.).

Intrusion alarms coupled with CCTV are required for the armory, the property and evidence spaces, the exterior evidence collection vehicle bays, the exterior chemical/toxic evidence and general storage and the exterior EOD non-explosive storage. The intrusion alarms and CCTV will be connected to monitors and alarm enunciators in central control at the new Adult Detention Facility (ADF). CCTV also will cover the SAB/EOC perimeter with the monitors also located in central control at the ADF. CCTV images will be recorded on a twenty-four hour loop.

Command staff<sup>1</sup> will require office space adequate to carry out their professional responsibilities. Command staff offices will include the capability for confidential meetings commensurate with the rank of the person to whom the office is assigned. Offices will have telephone and data jacks located as required. Video feeds will be provided to the offices of the Sheriff, the Undersheriff and the Captains. All command staff offices will have natural light to relieve the stress associated with law enforcement management at the senior level. Private offices are programmed for the Sheriff, the Undersheriff, four captains and seven lieutenants.

Administrative staff also will require office space in the new facility. Private offices and open office areas are programmed. Offices will have telephone and data jacks located as required. Insofar as is possible all administrative offices will have natural light to relieve the stress associated with law enforcement. Space is provided for two executive support staff, fourteen sergeants, sixteen detectives/investigators and fourteen support staff (i.e. Sheriff's Service Techs).

Three conference rooms are programmed including a large conference/training room (to accommodate twenty), a medium sized conference/training room (to accommodate up to fourteen) and a small conference room (to accommodate up to eight). All three conference/training rooms will have audio/visual capabilities and telephone/data jacks located as appropriate. Whiteboards and tack boards will be provided in each of the conference rooms. The large conference/training room will be located at the edge of the secure perimeter such that it may be used to brief volunteers, the public, the media and for public meetings.

Four confidential interview rooms (to accommodate four persons each) are provided for meetings with other law enforcement agencies, interviews with victims of crimes, interviews with suspects in crimes or witnesses to a crime, etc. All four interview rooms will have audio/visual capabilities and telephone/data jacks located as appropriate. A whiteboard and tack board will be provided in each interview room. Two interview rooms will be capable of videotaping and recording interviews.

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<sup>1</sup> Command staff includes the Sheriff and the Undersheriff as well as the Captains and the Lieutenants responsible for the operations and administration of the Sheriff's Department.

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One pair of these interview rooms will double as a line-up suite with special lighting to recreate the time of day and lighting conditions when a crime occurred. Two of the four interview rooms will be located adjacent to the public waiting area so that individuals who are not part of the Sheriff's Department staff will not be exposed to the other activities occurring in the Sheriff's Administration Building. The other two interview rooms will be located near the rear entrance to the SAB and adjacent to the office space occupied by the detectives/investigators.

A patrol report writing room is programmed with eight individual cubicles. Each cubicle will be equipped with a computer, monitor and telephone. A locally networked color printer and scanner will be located in this room. Storage shelving for forms and a large tack board and a whiteboard should be provided. Workstations in these cubicles will provide adequate space for the functions performed and include the ergonomic adjustments required when people of different body types share workstations.

A briefing/training/patrol room is provided to accommodate up to 100 people. This room will be used for Department briefings, patrol briefings and roll call, classroom training and other activities requiring the attendance of large numbers of officers and support staff or others. The briefing/training/patrol room will be located at the edge of the secure perimeter such that it may be used to brief volunteers, the public, the media and for public meetings. It also will be available for use by Emergency Operations in the event of a Level III event (please see item no. 4.002 for a discussion of EOC events). This room will have audio/visual capabilities (including a retractable screen for the projection of presentations, images or video tapes) and computer access. Space and electrical connections will be provided for four vending machines. A coffee bar with a refrigerator, microwave, sink with garbage disposal and appropriate cabinetry will be included in this space.

A tactical training room will be provided for such activities as training in defensive moves, CPR, first aid, baton training, etc. This room will have a rubberized floor and a mirrored wall.

A dispatch/communications space is programmed to handle the communications needs of the Sheriff's Department [only the Sheriff's Department?]. This room will accommodate up to ten communications consoles to meet 2030 projected needs. Insofar as is possible the dispatch/communications space will have natural light to relieve the stress often associated with law enforcement dispatch and communications. Wall mounted televisions will be provided to monitor local, regional and national news coverage and will accommodate direct feeds from the Emergency Operations Center (EOC) and the Emergency Communications Center (ECC). A dedicated computer/server room will be located adjacent to the communications center and will be climate controlled to ameliorate the heat generated by the electronic equipment. A Halon fire suppression system with appropriate alarms will be provided for this space. An IT workroom also will be located adjacent to the dispatch/communications space to service the communications consoles and the other IT needs of the Department. Raised computer flooring will be used in the dispatch/communications space. This will improve facility safety by reducing the most common trip hazards while simplifying the

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process of modifying these rooms in response to changing missions or technological advances. The Sheriff's communications center also will serve as a backup to the Emergency Communications Center (ECC) that is part of the Emergency Operations spaces.

Storage for the Sheriff's Administration Building includes general office storage and file storage. A duplication/copy room also is programmed.

A secure evidence storage room with pass-through lockers is provided. The lockers are arranged such that an officer booking evidence can place the evidence in a selected locker and secure the key to the exterior evidence locker door until such time as an evidence tech removes the evidence and places it in secure storage. Pass-through evidence lockers will be sized to accommodate small pieces of evidence (with one foot high by one foot wide doors), larger pieces of evidence (with two feet high by two feet wide doors) and longer pieces of evidence such as long guns, baseball bats, etc. (with four feet high by one foot wide doors). All lockers will be two feet deep. A drying room will be provided for wet evidence. A gun storage room with secure storage racks will be included for weapons seized as evidence or recovered as stolen property. A separate, well-ventilated storage area is required for the storage of drugs seized as evidence. Evidence and property of high value will be locked in a small, secure room. Two large industrial refrigerators with an uninterrupted power source (UPS) will be included for the storage of perishable evidence that must be refrigerated. A separate small area will be provided for evidence and property that is scheduled for destruction. All spaces will have the appropriate workspace or bench space for the processing of evidence and property. An eyewash station will be provided in a central location. An office for evidence techs' (to accommodate two techs) with adequate storage space for files and evidence supplies is provided. A small viewing room is included where the public can identify and recover their property. This viewing room will include a secure barrier between the public and staff and be located adjacent to the public lobby. Exterior, secure, fenced storage will be provided for impounded vehicles, motorcycles and bicycles in an area adjacent to the secure parking lot for official and staff vehicles.

Secure weapons and tactical equipment spaces are programmed including storage areas for standard issue weapons, special weapons, chemical weapons, ammunition and tactical equipment. Armory spaces include weapons storage with the capability to secure weapons in racks; storage is required for 100 handguns and 100 long guns (i.e. shotguns and rifles). Secure cabinets will be required for chemical weapons storage. Ammunition storage with secure storage cabinets for 3,000 handgun rounds, 20,000 shotgun rounds and 100,000 rifle rounds will be provided. Tactical equipment storage is programmed, including space for radios and charger racks, with storage racks and cabinetry. A weapons and equipment maintenance area with adequate bench surfaces and cabinetry for storage of tools and equipment is provided. A weapons cleaning area with adequate bench surfaces and cabinets for the storage of cleaning equipment and supplies is included. Specific spaces are provided for the Special Weapons and Tactics (SWAT) team. A weapons clearing area, located outside, immediately adjacent to the exterior entrance to the armory is programmed. An exterior entrance to the

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armory is required for ammunition loading, weapons transfer, etc. A parking apron for delivery trucks and patrol vehicles should be located immediately adjacent to the exterior entrance. HVAC design is critical. Air is to be 100% exhausted with no recirculation where chemicals are used in the cleaning and maintenance of weapons. The area should have a minimum of twelve air changes per hour. Air should be filtered and exhausted away from human traffic.

The staff locker room area will include individual lockers, a changing area, showers lavatories and toilet facilities. 140 male and 70 female full height lockers (18" x 18" x 72" with sloping tops) will be provided for the storage of clothing and personal items. The peak loads anticipated are thirty males and fifteen females. Lockers will be set on a masonry base to facilitate cleaning. Each locker will include one top shelf, ventilating grilles and a bar for hanging clothes. A locking device will be included for each locker.

Staff restrooms with individual showers will be included to accommodate a peak load of thirty males and fifteen females. ADA accommodation will be provided.

A public waiting area (to accommodate twenty persons) is included as are two public restrooms. The public waiting area will have two tack boards for displaying law enforcement notices and information. A children's play area also is programmed. The receptionist will be located behind a secure barrier and will have complete visual control of the public waiting area and the children's play area. The children's play area will be a secure space located adjacent to public waiting. Outside access directly from the children's play area will not be provided. (Selected public areas may be combined to serve Adult Detention Facility (ADF) and Sheriff's Administration Building (SAB). This will be explored during conceptual design.)

An intercom system will be installed connecting all primary spaces in the facility. Ceiling speakers will be installed throughout for "all page" announcements.

Emergency utility backup systems will be provided, including emergency power. The emergency generator must have enough fuel to provide uninterrupted power for at least seven days. All systems including HVAC, electrical, audiovisual and data will be backed up. An Uninterrupted Power System (UPS) must be provided for all critical systems with both automatic and manual power transfer capabilities. Additional electrical outlets will be installed in a selected location on the exterior of the building to provide power to mobile emergency units and command centers in the event they are needed.

No inmates other than trustees assigned janitorial duties will be allowed in the Sheriff's Administration Building.

Exterior spaces include a secure, enclosed garage for evidence collection with three, 600 square foot vehicle bays to allow adequate space for evidence technicians to work. A large, secure and enclosed exterior evidence storage building is provided for evidence that cannot safely be

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stored in the evidence and property room located inside the Sheriff's Administration Building. Space also is programmed for chemical/toxic evidence and general storage along with EOD non-explosive storage. Secure, covered, well-lighted and fenced parking will be provided for six command staff official vehicles. Secure, well-lighted, fenced parking also will be provided for all other official and staff vehicles. Non-secure public parking that is ADA compliant will be provided adjacent to the public entrance to the SAB.

**Space Requirements.**

Calaveras County Sheriff's Administration Building				
Sheriff's Administration - Interior Spaces	No.	NSF	Total NSF	BGSF
Sheriff's Office	1	225	225	281
Undersheriff's Office	1	200	200	250
Captains' Offices	4	180	720	900
Lieutenants' Offices	7	150	1,050	1,313
Executive Support Staff	2	120	240	300
Sergeants' Office (accommodates 8 sergeants @ 120 NSF each)	1	960	960	1,200
Specialized Sergeants' Office (accommodates 6 sergeants @ 120 NSF each)	1	720	720	900
Detective/Investigator Office (each office accommodates 8 staff @ 120 NSF each)	2	960	1,920	2,400
Weapons Storage	1	160	160	208
Chemical Storage	1	60	60	78
Ammunition Storage	1	40	40	52
Weapons Cleaning Area	1	140	140	182
Tactical Equipment Storage	1	200	200	260
Tactical Dress Out Area	1	140	140	182
Weapons Clearing Area	1	80	80	104
Weapons Maintenance	1	140	140	182
Special Weapons and Tactics (SWAT) Weapons and Equipment Room	1	400	400	500
Support Staff (Sheriff's Service Tech.)	14	100	1,400	1,750
Briefing/Training/Patrol Room (accommodates 100 @ 25 NSF each)	1	2,500	2,500	3,125
Tactical Training Room	1	1,000	1,000	1,250
Small Conference Room (accommodates 8)	1	220	220	275
Medium Conference/Training Room (accommodates 14)	1	320	320	400
Large Conference/Training Room (accommodates 20; also used by the community)	1	450	450	563
Patrol Report Writing Room (accommodates 8 cubicles @ 50 NSF each)	1	400	400	500
Interview/Conference Room (each seats 4; 1 pair doubles as Line-Up Suite w/special lighting, etc.)	4	120	480	600
Dispatch/Communications Room	1	800	800	1,000
Computer Room (serves Dispatch/Communications)	1	200	200	250
IT Workroom	1	200	200	250
General Storage/Supply Room	1	400	400	500
Evidence Storage Room (with pass-through lockers)	1	1,200	1,200	1,500
Evidence Tech Office (accommodates 2 techs @ 100 NSF each)	1	200	200	250
Duplication/Copy Area	1	150	150	188
File Storage	1	600	600	750
Staff Locker Room/Restroom/Showers - Female (70 lockers)	1	1,335	1,335	1,669
Staff Locker Room/Restroom/Showers - Male (140 lockers)	1	2,505	2,505	3,131
Public Waiting (accommodates 20 @ 15 NSF per person)	1	300	300	375
Children's Play Area (secure with no outside access; attached to public waiting)	1	100	100	125
Public Restrooms	2	50	100	125
Janitors Closets	2	80	160	200
<b>Sheriff's Administration - Total Interior Space Requirement</b>			<b>22,415</b>	<b>28,067</b>
Sheriff's Administration - Exterior Enclosed Spaces	No.	NSF	Total NSF	BGSF
Vehicle Bays - Evidence Collection (3 @ 600 NSF each)	1	1,800	1,800	2,250
Exterior Evidence Storage (enclosed)	1	800	800	1,000
Chemical/Toxic Evidence Storage	1	1,000	1,000	1,250
Chemical/Toxic General Storage	1	600	600	750
EOD Non-Explosive Storage	1	200	200	250
General Exterior Storage	1	200	200	250
Weapons Clearing/Cleaning (partially enclosed)	1	200	200	250
Covered Parking (6 @ 450 NSF each)	6	450	2,700	3,375
<b>Sheriff's Administration - Total Exterior Space Requirement</b>			<b>7,500</b>	<b>9,375</b>

4.002 **Emergency Operations**

**Introduction.** Emergency Services is responsible for executing the county's Emergency Service Plan, which addresses the planned response to extraordinary emergency situations associated with natural disasters, technological incidents as well as local and national security emergencies.

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The Emergency Operations Center (EOC), Emergency Communications Center (ECC) and the required ancillary spaces support the county's Emergency Service Plan, which:

- establishes the emergency management organization required to mitigate any significant emergency or disaster;
- identifies the policies, responsibilities and procedures required to protect the health and safety of Calaveras County communities, public and private property and the environmental effects of natural and technological emergencies and disasters; and
- establishes the operational concepts and procedures associated with Initial Response Operations (field response) to emergencies, Extended Response Operations (Emergency Operations Center activities) and the recovery process.

**Discussion and Recommendations.** The *Mission Control* model will be used for the EOC and ECC design.

(As described by Art Botterell, a national expert in the design of EOC/ECC layouts, *Mission Control* is modeled after technology-based command and control centers such as those used by major TV networks, the military and NASA. This model seats the players side by side facing a wall of large visual displays. The rows may be linear or curve inward or outward.

This layout "mediates" the interactions of the EOC staff through a technological "knowledge base" represented by the large visual displays in front. Technology dominates the process.

This layout is designed for use where the EOC task basically is technical.

When face-to-face problem solving is required, players can reconvene in conference rooms.

One of the chief activities in any EOC is monitoring events and the *Mission Control* layout is well suited for that purpose. Nonetheless care must be taken not to let the EOC process be driven by the information that occupies the displays.

Examples of the Mission Control model include the Los Angeles County EOC and the California Office of Emergency Services facility.)

Operations staff will operate from an elevated stage centered in the front of the EOC. Video displays as discussed below will appear on the front wall of the EOC. Responders' workstations will be arrayed in curved rows facing toward the front. Conference rooms and interview rooms in the SAB will be used as breakout rooms organized in the *Boardroom* model.

(Again, Art Botterell describes the *Boardroom* model. As the name suggests the *Boardroom* model gathers staff around a single table or assembly of tables. The players are seated facing

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inward.

Symbolically and practically this layout emphasizes interaction and collaboration, especially if the group remains at a dozen or less.

The main visual displays, if any, usually are located at one end of the table. Additional displays typically appear on the remaining walls but these displays are not visible to everyone. Additional staff generally sits in chairs along the walls.

The Emergency Information and Coordination Center at FEMA Headquarters is an example of this model.)

Breakout rooms will be designated as necessary for:

- Law Enforcement
- Fire
- Policy
- Environmental Resources
- Logistics
- Planning
- Finance
- Others (as determined by the nature of the emergency)

EOC events are classified as Level I through III with participation by responders as indicated in the table below.

Table 1  
Responder Participation in Events

Level	Responders	Comments
Level I	5 - 15	Normal event
Level II	15 - 50+	Number depends on nature of event
Level III	25 - 100+	Number depends on nature of event (may include federal and state responders)

This EOC will be designed to accommodate fifty responders in the *Mission Control* model as discussed above. Emergency Operations staff also will use the briefing/training/patrol room in the SAB if a Level III event requires additional space.

Particular attention will be paid to the use of color and light and acoustic design in what easily can become a high stress environment. Color and light used carefully can reduce stress. Soft overhead lighting, indirect lighting sources and natural light will reduce eye fatigue while making responders more comfortable. Florescent lights should not be used because they degrade projected images. Poor acoustics will undermine the ability to work efficiently and have a negative impact on mental health. Carpeting and acoustic wall and ceiling panels should be used for noise abatement. Finally the design image of the new EOC should convey a sense of importance and provide a professional environment for responders.

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All workstations must be ergonomically designed and the space allocated to each responder must be adequate. Well-designed ergonomic chairs with adjustable height, tilt, lumbar support and arms are essential. Computer keyboards must be on adjustable surfaces to accommodate different body types.

The audiovisual role in emergency operations is vital. Full screen display of event-specific, government resource, public service, local and national news information is desired. A large, wall mounted, plasma display screen surrounded by an additional four mid-size screens will be provided at the front of the EOC. The large screen will be primary. (The size and specific location of the screens will be determined during schematic design.) The mid-size screens must be viewed easily from the rearmost station in the EOC. A second large, wall mounted, plasma display screen will be located in the briefing/training/patrol room in the SAB. This screen will duplicate the feed to the primary screen in the EOC.

Pedestrian traffic patterns within the EOC must be carefully designed to promote efficiency during times of high activity.

Adequate storage must be provided for office supplies, files, janitorial supplies, maintenance supplies and emergency equipment. As part of the storage component a small first aid room with lockable storage will be provided. Basic first aid supplies and selected OTC remedies will be stocked. Controlled pharmaceuticals may be stocked if a potential event so warrants (e.g. an avian flu pandemic, a suspected bioterrorist event, etc.).

Two offices will be provided to accommodate EOC/ECC staff.

One sleeping dormitory will be provided, with four beds, nightstands and lockers. This dormitory will be available for quick naps during downtimes or for longer rest if personnel are confined to the EOC or ECC for any length of time.

Male and female locker rooms will be provided with adjacent shower/toilet room areas.

In the event of a major emergency, critical staff may be unwilling or unable to leave children, elders or pets to survive on their own. Childcare, eldercare and pet care should be accommodated at the EOC or another location nearby. If a severe emergency occurs, this care may be accommodated at least temporarily by using the medical exam/dispensary and the public waiting and children's play areas at the Adult Detention Facility (ADF).

An intercom system will be installed connecting all primary spaces in the facility. Ceiling speakers will be installed throughout for "all page" announcements. All EOC workstations will be configured for internet access and with electrical outlets and telephone and data jacks. Workstations will be wired to allow the laptops located at each station to be projected to the AV screens in the front of the room. Portable charging carts will be provided for the laptops used in the EOC. When the facility is not activated the laptops will be stored on the carts in a cart

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storage area so they are constantly charged.

Raised computer flooring will be used in the EOC and the ECC. This will improve facility safety by reducing the most common trip hazards while simplifying the process of modifying these rooms in response to changing missions or technological advances.

HVAC design is critical. Sufficient air changes per hour must be provided.

The server room with combined data and AV rack-mounted equipment will be centrally located adjacent to the EOC. This room must be environmentally controlled. A Halon fire suppression system with appropriate alarms will be provided for this space.

Emergency utility backup systems will be provided, including emergency power. The emergency generator must have enough fuel to provide uninterrupted power for at least seven days. All systems including HVAC, electrical, AV and data will be backed up. An Uninterrupted Power System (UPS) must be provided for all critical systems with both automatic and manual power transfer capabilities. Additional electrical outlets will be installed in a selected location on the exterior of the building to provide power to mobile emergency units and command centers in the event they are needed.

Parking and vehicular staging areas must be provided for shuttle vans (staff working beyond an twelve-hour shift should not drive because of fatigue), delivery trucks and trailers as well as for official and personal vehicles. A dedicated parking apron should be provided for two TV satellite vans. A minimum of forty standard parking spaces will be provided for staff parking. Additional spaces should be provided for media and the public.

Security for personnel and the facility itself is paramount since the facility may be in operation at any time, 365 days a year. Additionally the EOC itself may become a target for terrorists.

A PC based proximity reader cardkey system is required as discussed under item no. 6.001. The system should maintain data on all access and egress including location, card used for access, time of activity, etc. The system must be capable of limiting access to controlled spaces. The proximity reader cards should be configured as picture ID cards for EOC personnel.

At least one egress/ingress point for the EOC/ECC will be provided with decontamination/disinfecting capabilities.

Exterior spaces include space for general storage and two secure, covered, well lighted and fenced parking spaces for official vehicles. Secure, fenced and well-lighted parking will be shared with the parking for the SAB for all other official vehicles.

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**Space Requirements.**

Emergency Operations - Interior Spaces	No.	NSF	Total NSF	BGSF
Emergency Operations Center [EOC] (accommodates 50 @ 75 NSF each per FEMA Guidelines)	50	75	3,750	4,688
EOC Toilet Room	2	200	400	500
EOC Bunkroom (accommodates 4)	4	120	480	600
EOC Shower and Locker Room	2	220	440	550
EOC/ECC Computer Server Room	1	360	360	450
Emergency Communications Center [ECC] (accommodates 16 @ 75 NSF each per FEMA Guidelines)	1	1,200	1,200	1,500
EOC Storage	1	300	300	375
EOC Office	2	120	240	300
ECC Toilet Room	2	50	100	125
<b>Emergency Operations - Total Interior Space Requirement</b>			<b>7,270</b>	<b>9,088</b>

Emergency Operations - Exterior Enclosed Spaces	No.	NSF	Total NSF	BGSF
General Exterior Storage	1	200	200	250
Covered Parking (2 @ 450 NSF each)	2	450	900	1,125
<b>Emergency Operations - Total Exterior Space Requirement</b>			<b>1,100</b>	<b>1,375</b>

**6.003 SAB and EOC Emergency Power**

**Introduction.** Emergency power is required in all law enforcement and emergency operations facilities for safety and security reasons.

**Discussion and Recommendations.** In an emergency affecting the electrical system at a law enforcement or emergency operations facility, there are two critical factors. First there must be sufficient electrical power available to maintain control of all security systems. Secondly there must be sufficient power to continue the operation of devices related to natural disasters and fire protection devices (e.g. alarms, sprinklers, emergency lighting and exit signs, etc.). Power must continue to be available during the course of fire suppression and throughout a controlled evacuation of the facility. Power also must be available throughout the duration of a natural or manmade disaster when evacuation does not occur. Emergency power should be maintained for at least seven days.

**Space Requirements.**

This requires analysis by the electrical engineer. The square footage requirements are absorbed in the net-to-gross calculations and exterior space requirements.

**6.004 SAB and EOC Total Space and Acreage Requirements**

**Introduction.** The table below illustrates the total space needs and the acreage requirements for the Sheriff’s Administration Building and the Emergency Operations Center.

<b>Total Calaveras County SAB/EOC Space Needs (Interior + Exterior Space Requirements)</b>	<b>38,285</b>	<b>47,904</b>
<b>Total Calaveras County SAB/EOC Acreage Required (Building Footprints; 43,560 BGSF/Acre; Campus Plan)</b>		<b>1.10</b>
<b>Site Development Allowance (20,000 BGSF)</b>		<b>BGSF</b>
Site Development		20,000
<b>Total Calaveras County SAB/EOC Acreage Required (Site Development; 43,560 BGSF/Acre; Campus Plan)</b>		<b>0.46</b>
<b>Total Calaveras County SAB/EOC Acreage Required (Building Footprints &amp; Site Development; 43,560 BGSF/Acre; Campus Plan)</b>		<b>1.56</b>