





Revision:	Date:

**FIRE ALARM PANEL REPLACEMENT**  
**SANTA TERESA HIGH SCHOOL**  
**6150 SNELL AVENUE**  
**SAN JOSE, CA 95123**

**OWNER:**  
East Side Union  
High School District  
830 North Capital Ave  
San Jose, CA 95133  
P: (408)347-5000  
F: (408)347-5045

**GENERAL CONTRACTOR:**  
Gonsalves & Stronck Const. Co., Inc.  
1000 Washington Street  
San Carlos, CA 94070-5319  
P:

**FIRE ALARM CONSULTANT:**  
INTREPID  
6300 San Ignacio Ave.  
San Jose, CA 95119-1213  
P: (510) 597-9966  
F: (510) 597-9980

**ELECTRICAL CONTRACTOR:**  
Smith & Sons Electric, Inc.  
44081 South Grimmer Blvd.  
Fremont, CA 94538-6382  
P: (510) 651-4994

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 01- AC _____ FLS _____ SS _____ DATE _____
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Job No.: 16021  
Drawn By: AP Date: 05-23-2016  
Eng. Approval: DAVID KUNG  
PM Approval: DAVID KUNG  
Scale: AS SHOWN  
Sheet Title:

**FIRE ALARM**  
**GENERAL INFORMATION**

Sheet No.:

**FA0.1**

GENERAL FIRE ALARM NOTES	
1.	THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL BE MADE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS: A. 2013 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR. B. 2013 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR. C. 2013 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR. D. 2013 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR. E. 2013 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR. F. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS. G. APPLICABLE STANDARD NFPA 72 NATIONAL FIRE ALARM CODE 2013 EDITION.
2.	INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3.	UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4.	A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5.	ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6.	DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
7.	ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8.	ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUIT ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
9.	FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS. IT IS THE INTENT OF THIS PROJECT THAT THE EXISTING FACP BE PROTECTED AND RECONNECTED IN PLACE.
10.	A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
11.	THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
12.	CONTROL PANELS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
13.	THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
14.	SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
15.	THE FIRE ALARM SYSTEM SHALL BE INSTALLED COMPLETELY IN CONFORMANCE WITH ALL REQUIREMENTS OF SB575 GREEN OAK FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT.
16.	SUPERVISORY STATION: AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVAL SUPERVISING STATION AS REQUIRED BY NFPA 72, AS AMENDED BY ARTICLE 91, THE FIRE ALARM SYSTEM IS TO BE MONITORED BY CRIME ALERT, AN OFF-SITE U.L. CERTIFIED CENTRAL MONITORING STATION.
17.	FOR ALL EXISTING FIRE ALARM EQUIPMENT CONTROL PANELS AND REMOTE POWER SUPPLIES THAT ARE TO BE REPLACED WITH NEW, RETAIN ALL EXISTING DEDICATED 120V CIRCUITS IN PLACE AND REUSE THEM FOR DEDICATED POWER CONNECTIONS TO ALL NEW REPLACEMENT PANELS AND POWER SUPPLIES WHEREVER AVAILABLE.

FIRE ALARM LEGEND				
SYMBOL	QTY	MODEL NO.	DESCRIPTION	CSFM LISTING NO.
	1 EA.	GAMEWELL-FCI E3 SERIES	ADDRESSABLE FIRE ALARM CONTROL PANEL LETTER ADJACENT INDICATES STYLE OF PANEL AS FOLLOWS:  STYLE 'A' INCLUDES: 600XL RETROFIT, E3-IL-C PLATE, LI95-MB-E3, PM-9, 100-0450, RPT-E3-UTP, FML-E3(X2).  STYLE 'H' INCLUDES: E3BB-RD/INCC, E3-INCC-D PLATE, E3ID2-D, LCD-E3, PM-9, LI-MB-E3, 1100-0450(X3), 1100-0455, DACT-E3, RPT-E3-UTP(X2), FML-E3(X2)	7165-1703:0125
		GAMEWELL-FCI NGA ANNUNCIATOR	REMOTE NETWORK GRAPHIC ANNUNCIATOR	7165-1703:0125
		AES MODEL 7788W	INTELLINET RADIO TRANSMITTER	7300-1516:0108

SEQUENCE OF OPERATION OF FIRE ALARM SYSTEM	
1.	ACTIVATION OF ANY SYSTEM PULL STATION, SMOKE DETECTOR, HEAT DETECTOR, DUCT SMOKE DETECTOR, WATER FLOW SWITCH OR ANSUL UNIT SHALL: a. CAUSE ALL SIGNAL DEVICES ON THE CAMPUS TO ACTIVATE AND SOUND. b. FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INDICATE THE SOURCE OF THE ALARM AND ALARM LIGHT(S) ON THE FIRE ALARM PANEL WILL ILLUMINATE. c. SHALL CAUSE THE RADIO MESH NETWORK COMMUNICATIONS TRANSMITTER TO TRANSMIT THE ALARM TO A U.L. LISTED CENTRAL MONITORING STATION. d. OPERATE DOOR HOLDER/RELEASE DEVICES IN FIRE AREA. e. CAUSE GLOBAL SHUT DOWN OF ASSOCIATED HVAC EQUIPMENT WITHIN THE BUILDING WHEN HVAC DUCT SMOKE DETECTORS ARE ACTIVATED AND SHALL ACTIVATE LOCAL FIRE/SMOKE DAMPERS THROUGHOUT THE AFFECTED AREAS.
2.	ACTIVATION OF A VALVE SUPERVISORY SWITCH OR SHOULD AN OPEN GROUND OR FAULT OCCUR IN THE WIRING, THE FACP(S) AND REMOTE ANNUNCIATOR(S) SHALL INITIATE A TROUBLE SIGNAL AND SHALL INDICATE THE SOURCE OF THE TROUBLE.
3.	ONCE THE SYSTEM IS BACK TO NORMAL, THE PANEL WILL RESOUND FOR PROPER RESETTING.
4.	ALARM SILENCE CAN ONLY BE PERFORMED AFTER 5 MIN. OF ALARM IN ANY CONDITION.

PROJECT DESCRIPTION	
1.	OCCUPANCY TYPE: E (SCHOOL)
2.	SYSTEM TYPE: CLASS B, AUTOMATIC ADDRESSABLE SYSTEM.
3.	STYLE OF CIRCUITS: A. INITIATING CIRCUIT, SLC LOOP CLASS B/STYLE 4. B. NOTIFICATION APPLIANCE CIRCUITS, NAC CLASS B/STYLE Y.
4.	METHOD OF COMMUNICATION: RADIO TRANSMISSION.
5.	PROVIDE UL CENTRAL STATION MONITORING.

SCOPE OF WORK	
1.	RETROFIT THE EXISTING FIRE ALARM CONTROL PANELS IN BUILDINGS 100 & 600 AS IDENTIFIED ON SITE PLAN WITH NEW GAMEWELL-FCI E3 SERIES CONTROL UNIT COMPONENTS & EQUIPMENTS.
2.	RECONNECT ALL EXISTING REMAINING REMOTE POWER SUPPLIES, INITIATING DEVICES AND NOTIFICATION APPLIANCES IN EXISTING BUILDINGS TO THE NEW FACP AS NOTED ON DRAWINGS, U.O.N.
3.	REPLACE THE EXISTING OFF-SITE NOTIFICATION TRANSMITTER SYSTEM IN BLDG. 100 WITH A NEW RADIO MESH TRANSMITTER SYSTEM TO BE MONITORED BY SCHOOL DISTRICT'S CENTRAL MONITORING STATION.
4.	REPLACE EXISTING FIRE ALARM ANNUNCIATOR IN BLD 100 WITH NEW GAMEWELL-FCI NGA NETWORK GRAPHIC ANNUNCIATOR AND RECONNECT.
5.	REPLACE EXISTING REMOTE POWER SUPPLY IN BLD 100 WITH NEW GAMEWELL-FCI POWER SUPPLY AND RECONNECT.

SYMBOL LIST	
CEILING	WALL
	NAC REMOTE POWER SUPPLY
	FIRE ALARM CONTROL PANEL, LETTER ADJACENT INDICATES PANEL STYLE AS REFERENCED IN FIRE ALARM LEGEND
	REMOTE ANNUNCIATOR
	OFF-SITE NOTIFICATION TRANSMITTER
	(E) SMOKE DETECTOR
	(E) HEAT DETECTOR
	(E) MANUAL PULL STATION AT +42" MIN. TO 48" A.F.F. TO HIGHEST PART OF ACTIVATING HANDLE
	(E) MONITOR MODULE
	(E) SUPERVISORY SWITCH ON "OS&Y" VALVE
	(E) CEILING OR WALL FIRE ALARM STROBE, WITH ENTIRE LENS WALL MOUNTED BETWEEN +80" TO +96" AFF
	(E) CEILING OR WALL FIRE ALARM HORN WALL MOUNTED AT +80" AFF
	(E) CEILING OR WALL FIRE ALARM HORN/STROBE, WITH ENTIRE LENS WALL MOUNTED BETWEEN +80" TO +96" AFF
	(E) FIRE ALARM STROBE - WEATHERPROOF, WITH ENTIRE LENS AT +80" AFF MOUNTED BETWEEN +80" TO 96" AFF
	(E) FIRE ALARM HORN - WEATHERPROOF AT +80" AFF
	(E) RELAY MODULE RCE 95
	(E) SIGNAL CONTROL RELAY
	(E) END-OF-LINE DEVICE
	SHEET NOTE REFERENCE MARKER, NOTE #1 SHOWN.
	(E) WIRES IN CONDUIT CONCEALED UNDERFLOOR OR UNDERGROUND.
	(E) WIRES IN CONDUIT.

ABBREVIATIONS			
ARCH.	ARCHITECT	(N)	NEW
AWG	AMERICAN WIRE GAUGE	NAC	NOTIFICATION APPLIANCE CIRCUITS
BKR	BREAKER CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NO	NUMBER
CKT	CIRCUIT	SLC	SIGNALING LINE CIRCUITS
CLG	CEILING	TYP	TYPICAL
(E)	EXISTING	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
IOR	INSPECTOR OF RECORD		
IDC	INITIATING DEVICE CIRCUITS		

DRAWING INDEX	
SHEET NUMBER	TITLE
FA0.1	FIRE ALARM GENERAL INFORMATION
FA0.2	FIRE ALARM RISER DIAGRAM AND BATTERY CALCULATIONS
FA1.0	FIRE ALARM SITE PLAN
FA2.0	FIRE ALARM FLOOR PLANS





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P: (510) 597-9966  
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44081 South Grimmer Blvd.  
Fremont, CA 94538-6382  
P: (510) 651-4994

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 01- AC _____ FLS _____ SS _____ DATE _____
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Job No.:	16021
Drawn By:	AP
Date:	05-23-2016
Eng. Approval:	DAVID KUNG
PM Approval:	DAVID KUNG
Scale:	AS SHOWN

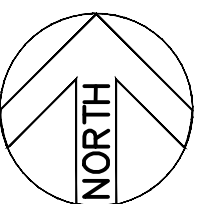
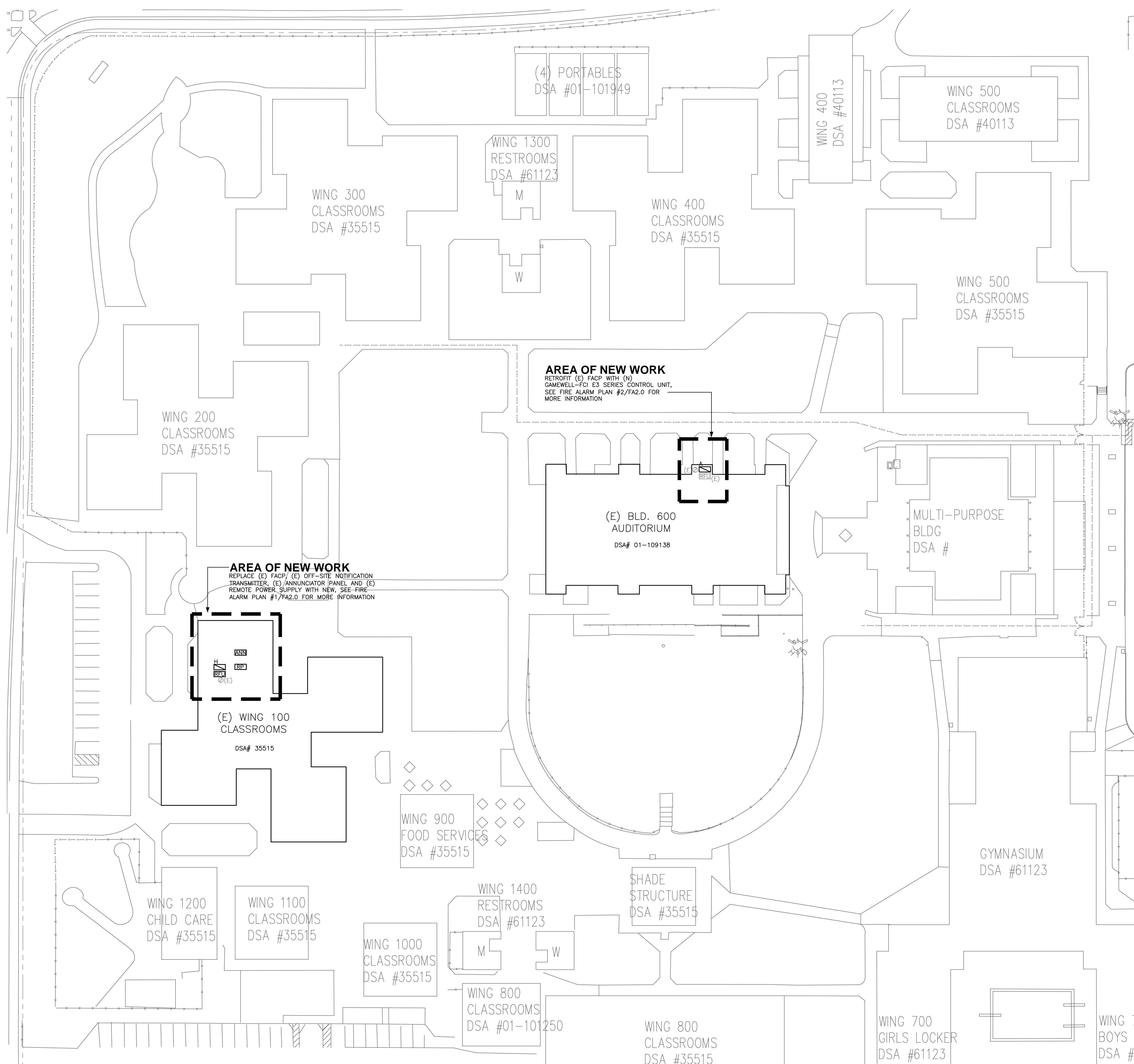
Sheet Title:  
**FIRE ALARM  
SITE PLAN**

Sheet No.:

**FA1.0**

**GENERAL NOTES:**

1. LIGHT, THIN LINES INDICATE EXISTING. DARK, HEAVY LINES INDICATE NEW WORK.
2. SEE SHEET FA0.1 FOR GENERAL PROJECT INFORMATION, FIRE ALARM LEGEND, PROJECT DESCRIPTION AND FIRE ALARM SCOPE OF WORK.





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Scale:	AS SHOWN

Sheet Title:  
**FIRE ALARM FLOOR PLANS**

Sheet No.:

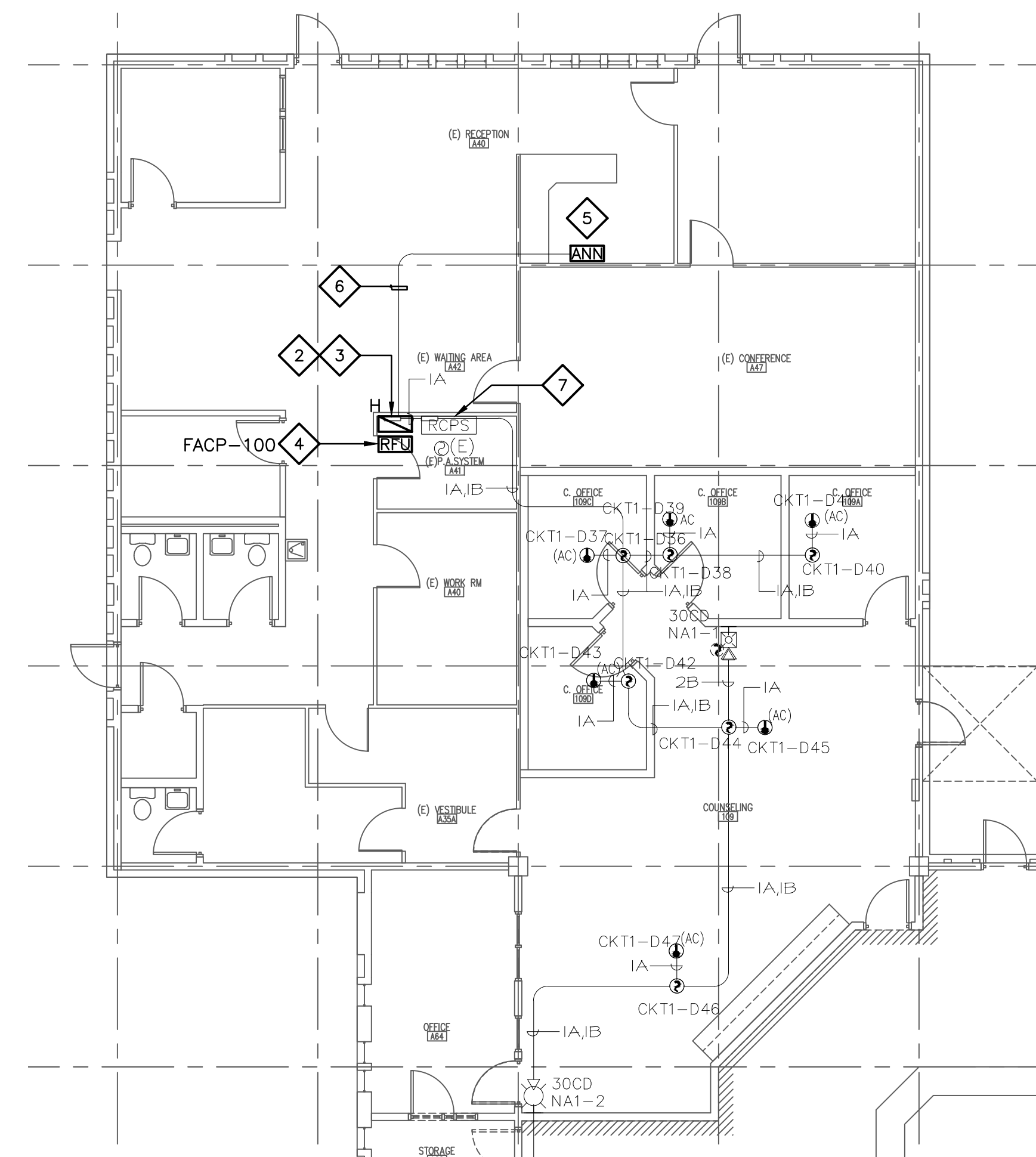
**FA2.0**

**GENERAL NOTES:**

- LIGHT, THIN LINES INDICATE EXISTING. DARK, HEAVY LINES INDICATE NEW WORK
- SEE SHEET FA0.1 FOR GENERAL PROJECT INFORMATION.

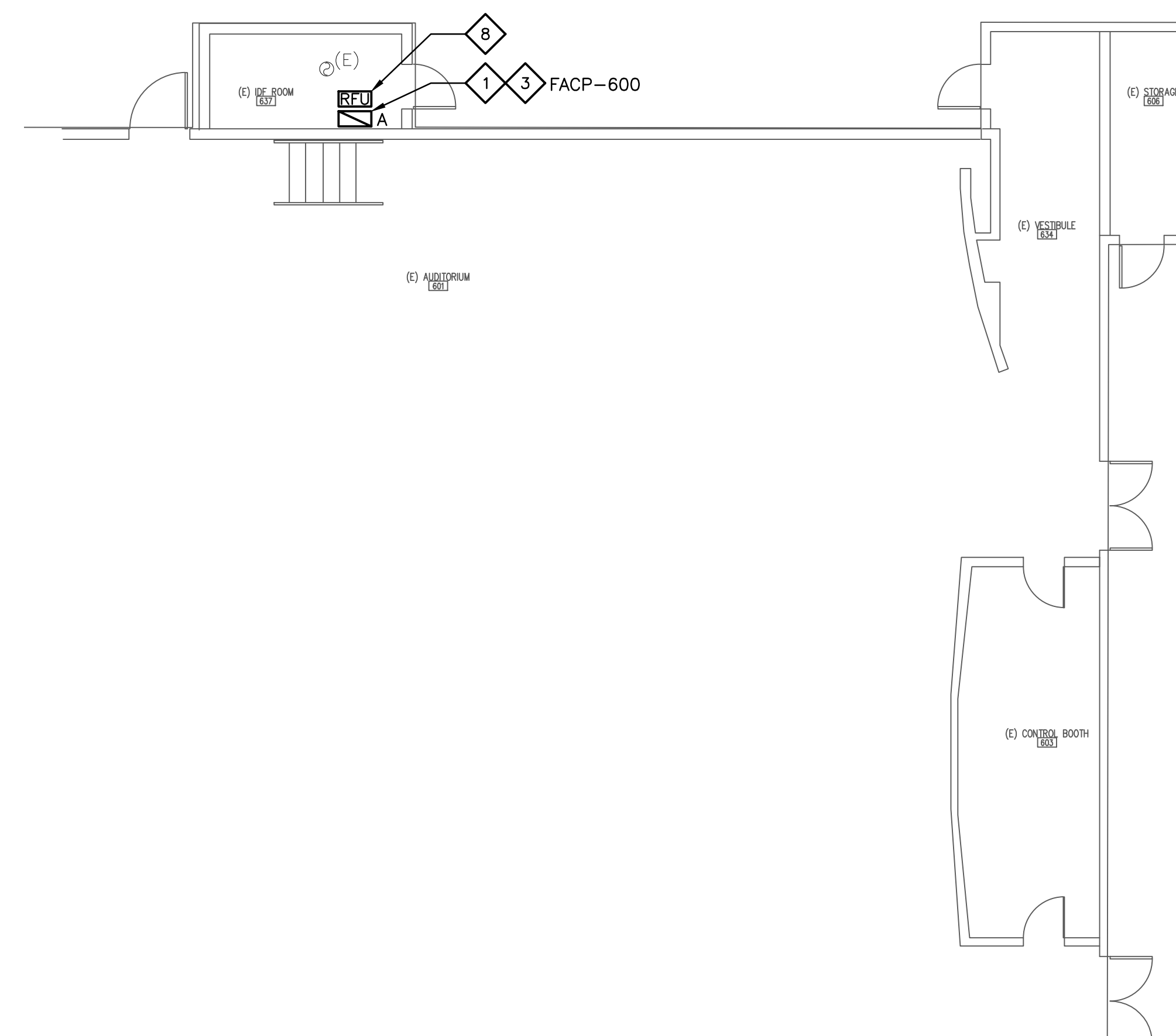
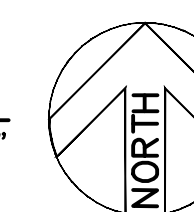
**SHEET NOTES:**

- EXISTING GAMEWELL-FCI 600XL SERIES FIRE ALARM CONTROL PANEL LOCATED IN IDF ROOM SHALL BE RETROFITTED WITH THE NEW GAMEWELL-FCI E3 SERIES WITH NEW COMPONENTS AND EQUIPMENT.
- PROVIDE NEW GAMEWELL-FCI E3 SERIES FIRE ALARM CONTROL PANEL TO REPLACE EXISTING GAMEWELL PANEL IN P.A. SYSTEM ROOM.
- RECONNECT ALL EXISTING REMOTE POWER SUPPLY, INITIATING DEVICES AND NOTIFICATION APPLIANCES IN EXISTING BUILDING TO NEW FACP.
- REPLACE THE EXISTING OFF-SITE NOTIFICATION TRANSMITTER SYSTEM WITH A NEW RADIO MESH TRANSMITTER SYSTEM BEING MONITORED BY SCHOOL DISTRICT'S CENTRAL MONITORING STATION.
- REPLACE EXISTING FIRE ALARM ANNUNCIATOR IN (E) IDF ROOM WITH NEW GAMEWELL-FCI NGA NETWORK GRAPHIC ANNUNCIATOR AND RECONNECT. VERIFY EXACT LOCATION IN THE FIELD.
- EXISTING FA NETWORK WIRING TO BE REUSED AND RECONNECTED FROM (N) FACP TO (N) ANNUNCIATOR AS SHOWN, VERIFY IN FIELD.
- EXISTING REMOTE POWER SUPPLY TO REMAIN.
- (E) OFF-SITE NOTIFICATION TRANSMITTER AND 9db ANTENNA TO REMAIN AND TO BE RECONNECTED TO (N) FACP AS A REPEATER BOOSTER.



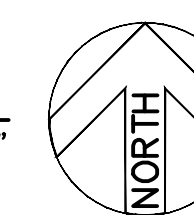
**1 PARTIAL FIRE ALARM BLDG 100 FLOOR PLAN**

SCALE: 1/8"=1'-0"



**2 PARTIAL FIRE ALARM BLDG. 600 FLOOR PLAN**

SCALE: 1/8"=1'-0"





# Gamewell Retrofit Kits

by Honeywell

## Description

The Gamewell Retrofit Kits offered by Gamewell-FCI provide a simple way to convert the following existing Gamewell legacy Systems to a new E3 Series® fire alarm panel.

- IF602 panel
- IF610 panel
- IF632 panel

The Retrofit Kits offer a cost-effective solution to change the Gamewell legacy panels without replacing the existing Gamewell backbox. This solution eliminates the expensive cost of repairing walls, buying new cabinets or replacing the existing Gamewell backbox.

All retrofit kits provide backplates that mount directly into the Gamewell backboxes. Each backplate includes mounting patterns to allow an easy installation of the E3 Series plates and sub-assemblies. The front panel displays can be retrofitted to the E3 Series LCD-E3/LCD-SLP using a simple mounting plate. IF600XL retrofit kits include a 3-bay slot door for addressable switch buttons, LED drivers, and a paging microphone.

Gamewell RAN annunciator can also be retrofitted to accommodate an E3 Series supported annunciator by reusing the existing backbox.

Retrofitting is a cost effective way to upgrade your facilities' fire alarm control panel without swapping out smoke detectors and notification devices. Changing your legacy Gamewell System to the Gamewell-FCI, E3 Series System converts your fire alarm system, so that it is compliant with the most current UL® and NFPA codes and standards.

## Installation

To retrofit from a Gamewell panel to an E3 Series System, refer to the following time-saving steps which can save a lot in setup and labor costs.

1. Remove all field wiring from the legacy Gamewell control boards that are installed inside the cabinet.
2. Remove the front door or inner doors.
3. Unscrew the Gamewell panel mounting plate from the backbox.
4. Install the new retrofit mounting plate for E3 Series sub-assemblies or plates.
5. Install the new E3 Series panels and connect with the existing wiring.
6. Auto configure the system or custom program the E3 Series.

E3 Series® is a registered trademark of Honeywell International Inc.  
UL® is a registered trademark of Underwriter's Laboratories Inc.

## Gamewell to E3 Series®



IF600XL

B-Slim

## Features

- Listed under UL® Standard 864, 9th edition.
- Cost effective solution for upgrading an existing system without buying a complete E3 Series System.
- Upgrades to the state-of-the-art E3 Series fire alarm control panels.
- Offers a simple plate system for easy installation.
- Allows the existing cabinet to remain mounted on the wall.
- Reuses the existing System Sensor or Apollo detectors/modules, and notification devices.
- Remote annunciator retrofit available.

## E3 Series Features

For additional information on the E3 Series features, refer to the E3 Series Data Sheet Part Number: 9020-0637.

SIGNALING



LISTED  
S1869



**GAMEWELL-FCI**

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

Specifications are for information only, are not intended for installation purposes, and are subject to change without notice. No responsibility is assumed by Gamewell-FCI for their use.

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[www.gamewell-fci.com](http://www.gamewell-fci.com)

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## Gamewell RAN2 Retrofit

Figure 1.1 illustrates the Gamewell RAN2 retrofit.



Figure 1 Gamewell RAN-7100

## Retrofit Cabinet Installation

Figure 2 shows an IF600XL/632 configuration.

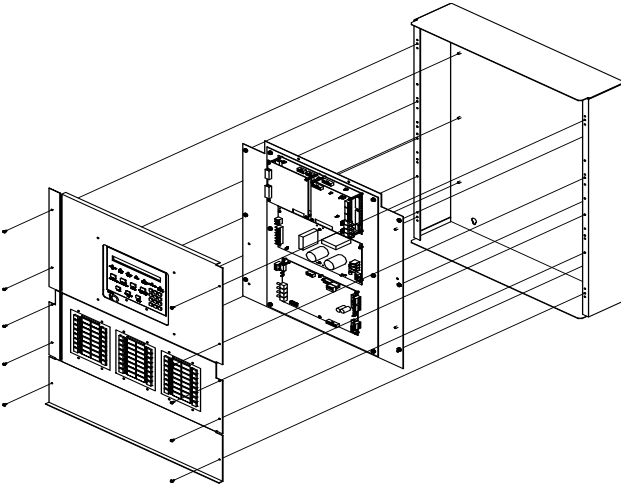


Figure 2 IF600XL/632

Figure 3 shows an IF600 configuration.

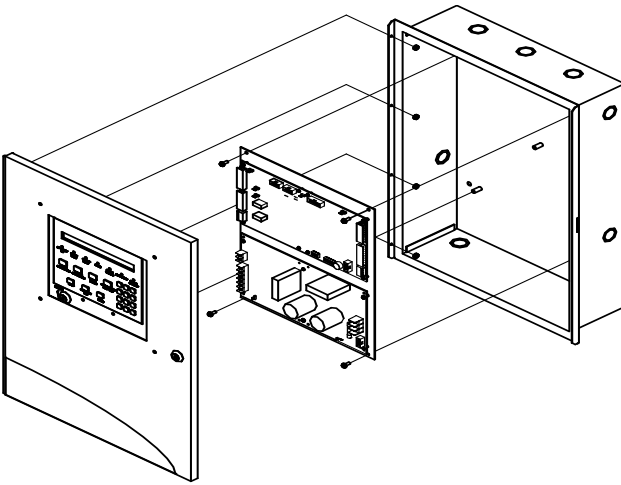


Figure 3 IF600

## Ordering Information

Part Number	Description
<b>IF600-RETROFIT</b>	Gamewell IF602/IF610 (System Sensor or Apollo Retrofit)

The Retrofit Kit includes the following:

- Front door
- Backbox mounting plate
- Display plate

### Loop Cards

The IF600 Retrofit Kit supports up to two ILI loop cards:

- ILI-MB-E3
- ILI95-MB-E3
- ILI-S-E3
- ILI95-S-E3

The following E3 Series sub-assemblies can be used in the IF600 Retrofit Kit.

- PM-9/PM-9G Power Supply (required)
- LCD-E3 LCD Display (required)
- LCD-SLP LCD Touchscreen Display (optional)
- DACT-E3 Dialer (optional)
- RPT-E3-FO/RPT-E3-UTP Network Repeater (optional)

<b>IF600XL-RETROFIT</b>	Gamewell IF602XL, IF610XL, IF632 (System Sensor or Apollo Retrofit)
-------------------------	--

The Retrofit Kit includes the following plates:

- Inner display door
- Inner dead front cover
- Inner 3-bay door
- Backbox mounting plate

The above mounting plates support one of the following E3 Series mounting plates (sold separately).

- E3-ILI-C
- E3-INCC-C

### E3-ILI-C Mounting Plate:

E3-ILI-C Mounting Plate accommodates the following:

- Choice of two ILI loop cards
- ILI-MB-E3
- ILI95-MB-E3
- ILI-S-E3
- ILI95-S-E3

### E3-INCC-C Mounting Plate:

E3-INCC-C Mounting Plate accommodates the following:

- Choice of one ILI loop cards:
- ILI-MB-E3
- ILI95-MB-E3
- ILI-S-E3
- ILI95-S-E3

Optional-Select One of the following INI-VG Series boards:

- INI-VGC Command Center
- INI-VGX Voice Gateway
- INI-VGE Bulk Voice Gateway

## GAMEWELL-FCI

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



# LISTING SERVICE

**LISTING No.** 7300-1516:0108 Page 1 of 1

**CATEGORY:** 7300 -- FIRE ALARM CONTROL UNIT ACCESSORIES/MISC. DEVICES

**LISTEE:** AES CORPORATION 285 NEWBURY ST, PEABODY, MA 01960  
Contact: Owais Hassan (978) 535-7310 Ext: 263 Fax (978) 535-7313  
Email: OHassan@aes-intellinet.com

**DESIGN:** \*Model 7788F Subscriber Unit, RF transceiver. Unit is intended for use with listee's separately listed Model IntelliNet 7705i system (7300-1516:104) and 7170-EM IPLinks, Remote Transceivers (7300-1516:105). Refer to listee's data sheet for additional detailed product description and operational considerations.

**RATING:** 120 VAC, 16.5 VAC 40VA Secondary, 12 VDC nominal

**INSTALLATION:** In accordance with listee's printed installation instructions, applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.

**MARKING:** Listee's name, model designation, and UL label.

**APPROVAL:** Listed as a two-way transceiver unit for use with separately listed compatible fire alarm control units.

\* 07-12-2013 bh



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2016**

Listing Expires **June 30, 2017**

Authorized By: **DAVID CASTILLO, Program Coordinator**  
*Fire Engineering Division*

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION  
OFFICE OF THE STATE FIRE MARSHAL  
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM



# LISTING SERVICE

**LISTING No.** 7165-1703:0125

Page 1 of 2

**CATEGORY:** 7165 -- FIRE ALARM CONTROL UNIT (COMMERCIAL)

**LISTEE:** GAMEWELL-FCI12 Clintonville Road, Northford, CT 06472  
Contact: Brian Reynolds (203) 484-6124 Fax (203) 484-7309  
Email: brian.reynolds2@honeywell.com

**DESIGN:** Model E3 Series® BROADBAND and E3 Series® CLASSIC Voice Evacuation System. The E3 Systems may also work in conjunction with all the sub-assemblies of listee's 7100 Series Control Panel and NetSOLO systems (CSFM Listing No. 7165-1703:105 and 6911-1703:116, and 6911-1703:118).

Unit conveys all fire alarm, audio evacuation, voice paging, and fire fighter communications. Power-limited; non-coded, automatic, manual, smoke control, water flow, sprinkler supervisory, local auxiliary, central station, remote station, and proprietary service. Refer to listee's data sheet for additional detailed product description and operational considerations.

System components:

ILI-MB-E3; Intelligent Loop Interface Master Board  
PM-9, PM-9G\*; Power Supply  
ILI-95-MB-E3, ILI-95-S-E3; Loop Interface Subassemblies  
E3BB-FLUSH-LCD; Enclosure for ICD-E3  
E3BB-BA/-RA/-BAA/-RAA/-BB/-RB/-BC/-RC/-BD; Cabinets\*  
RPT-E3-FO or; Repeater Sub-assembly, Fiber Optic or  
RPT-E3-UTP; Repeater Sub-assembly, Unshielded twisted pair wire  
LCD-E3; LCD Keypad Display  
DACT-E3 sub-assembly; Digital alarm communicator transmitter  
ILI-S-E3; Intelligent Loop Unit, Expansion Board  
ANX-SR, ANX-MR-FO, ANX-MR-UTR; Addressable Node Expanders Sub Assembly\*  
INCC-E; Intelligent Network Enclosure\*  
INCC; Intelligent Network Central Command\*  
INI-VG, INI-VGC-UTP, INI-VGC-FO, INI-VGX-UTP; Intelligent Network Interface Sub Assembly\*  
INI-VGX-FO, INI-VGE-UTP, INI-VGE-FO; Intelligent Network Interface Sub Assembly\*  
ASM-16; Annunciator Switch Sub Assembly\*  
INX; Network Audio Transponder Enclosure\*  
ANU-48; Annunciator Sub Assembly\*  
NGA; Touch Screen LCD Display Sub Assembly\*  
LCD-7100; Remote LCD Display\*  
SBB-C4, SBB-D4; Backbox\*

\*Rev. 03-18-11bh



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2016**

Listing Expires **June 30, 2017**

Authorized By: **DAVID CASTILLO, Program Coordinator**  
*Fire Engineering Division*

FCI-VDR-D4B, FCI-DR-C4B, FCI-CR-D4B; Doors with locks\*  
 AA-100, AA-120; Amplifiers\*  
 AM-50-25, AM-50-70; Amplifier Sub Assembly\*  
 CHG120; Battery Charger with Cabinet\*  
 BC-1/FCI-LBB; Backbox\*  
 IPDACT-2; IP Digital Alarm Communicator\*  
 FPJ; Firefighters's Telephone Jack Receptacle\*  
 FHS; Portable Firefighters's Telephone Handset\*  
 7100 Series#; Fire Alarm Control Panel or  
 INI-7100 UTP#; Intelligent Network Interface Sub-assembly, [Twisted, unshielded wire] or  
 INI-7100 FO#; Intelligent Network Interface

**RATING:** 120 V, 60 Hz, 3.5 A Primary; 24 V dc, 9A Secondary

**INSTALLATION:** In accordance with listee's printed installation instructions, NFPA 72, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

**MARKING:** Listee's name, model designation, electrical rating and UL label.

**APPROVAL:** Listed as fire alarm control unit for use with separately listed electrically and functionally compatible initiating and indicating devices. Suitable for high-rise applications when used with the above voice evacuation systems.

This control unit can generate a distinctive three-pulse Temporal Pattern Fire Alarm Evacuation Signal (for total evacuation) in accordance with NPFA 72, 2002 Edition.

This control unit meets the requirements of UL Standard 864, 9th Edition.

**NOTE:** For Fire Alarm Verification Feature (delay of alarm signaling), the Retard/Reset/Restart period shall be 30 seconds or less.

\*Rev. 03-18-11bh



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

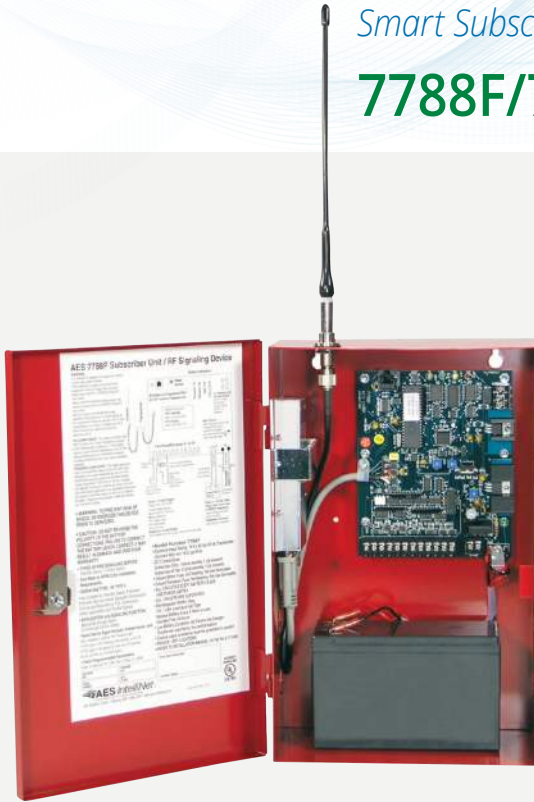
Date Issued: **July 01, 2016**

Listing Expires **June 30, 2017**

Authorized By: **DAVID CASTILLO, Program Coordinator**  
 Fire Engineering Division

*Smart Subscribers for Commercial Fire Alarm Systems*

## 7788F/7744F Series Fire Subscribers



### Features

- AES-IntelliNet<sup>®</sup> smart mesh radio networks are self-forming, self-healing, and highly scalable
- AES-IntelliNet alarm communications technology never sunsets compared to cellular alternatives
- Each Smart Subscriber enables multiple paths to a central monitoring station
- Option to transmit full data from FACP digital dialer to AES-MultiNet receiver
- Simple and fast activation on AES-IntelliNet network

### Benefits

- Most stable and profitable fire alarm communication technology
- Network owner-operators retain virtually all RMR
- Meets UL 864 Commercial Fire Alarm requirements for primary standalone communication
- Ideal drop-in full-function replacement for phone lines
- Universal wireless Smart Subscriber Transceivers support all new and legacy FACPs

### Advanced Wireless Fire Alarm Monitoring

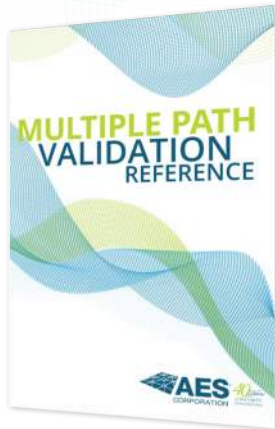
AES 7788F/7744F Series Subscribers are the ideal universal wireless communicators for any new or existing fire alarm system. AES-IntelliNet networks are built using AES Corporation's patented mesh radio communications technology. A Smart Subscriber at each alarm site acts as transmitter, receiver, and repeater of alarm signals across the network. This creates a smart long-range radio network with multiple pathways between each alarm site and the central receiver. Multiple pathways mean multiple redundancies assuring the most reliable delivery of signals and compliance with rigorous industry standards. AES-IntelliNet networks self-adjust to network changes and assure that signals automatically follow the shortest path available as the network of Subscribers grows.

### Highest Long Term Stability and Profitability

AES-IntelliNet remains the most stable and profitable fire alarm communication technology available today in the rapidly changing world of communications. AES private wireless networks never sunset compared to cellular technology and traditional phone lines. AES-IntelliNet networks maximize RMR generated from network alarm communication services because signals are delivered without the need for a costly operations center or cellular service providers.

## UL 864 Edition 9 Compliant – Primary Standalone Communicators

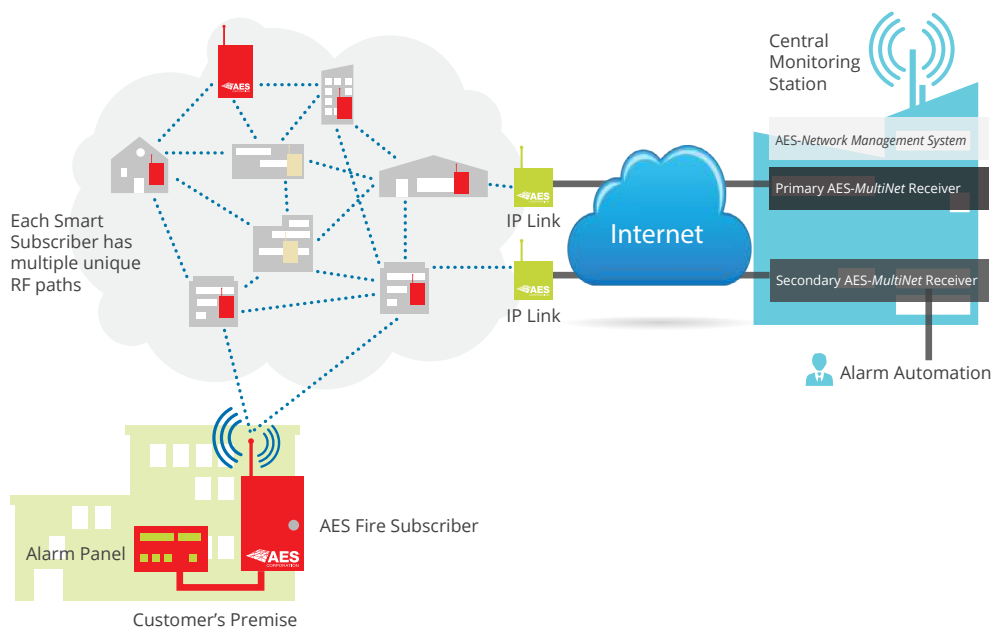
In order to meet UL approval and NFPA compliance, most fire alarm communicators require either a second communication technology or a costly service plan included with sole path cellular alternatives. With AES-IntelliNet alarm communications technology, each standalone AES 7788F/7744F Subscriber provides multiple RF pathways across the mesh radio network to the central monitoring station. To meet compliance standards, only 2 RF paths are required. Please refer to the official NFPA 72 National Fire Alarm and Signaling Code handbook, Chapter 26 (26.6.3.3.2 One-Way Private Radio Alarm Systems/Technology Reference Comparison Table A.26.6.1).



### Multiple RF Path Reference Guide

AES provides a *Multiple Path Validation Reference* guide detailing how to easily validate multiple RF paths at each AES 7788F/7744F Series Fire Subscriber. The guide also provides a complete listing of the codes and standards to which AES-IntelliNet products have been tested. To assist Authorities Having Jurisdiction (AHJs) with the fire alarm inspection process, the guide and other valuable installer tools are available for download from the company website. Visit our Fire Marshal Resources page at (<http://www.aes-intellinet.com/products/fire/fire-marshall-resources/>).

## AES-IntelliNet® Private Wireless Mesh Network



Each Smart Subscriber acts as transmitter, receiver, and repeater creating a smart long-range radio network with multiple pathways and multiple redundancies. The AES-IntelliNet network is self-forming, self-healing, highly scalable and assures that signals follow the shortest path available as the network expands.

## Cost Free Supervised Operation

AES Subscribers offer fully-supervised operation that includes monitoring of primary and back-up operating power as well as the radio connection to the AES-*IntelliNet* network. Each Subscriber performs “Check-ins” with the AES central station receiver at least once every 24 hours which complies with the UL 864 standard for commercial fire alarm communications. The supervision Check-in time can be set to as often as needed for the application. Because the central station owns and operates the long-range wireless network, there is no cost for air time to transmit supervisory signals. This is very different from cellular alternatives which require an aggressive supervision Check-in schedule in order to comply with UL 864 listing. The high monthly cost for cellular service fees significantly reduce RMR profit.

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Unlike cellular, there is no cost for air time to transmit supervisory signals.

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## Full Data Module Option - Ideal replacement for Phone Lines

AES Subscribers transmit consolidated alarm, trouble, and supervisory signals triggered by a FACP output relay. Subscribers with an integrated AES-*IntelliPro* Fire full data module transmit full alarm zone and event codes captured from a panel's digital communicator. Both options individually meet UL and NFPA 72 requirements. AES Fire Subscribers with built-in full data module are the ideal drop-in full-function replacement for phone lines for communicating signals from both new and existing UL commercial fire alarm systems. Replacing phone lines with AES-*IntelliNet* maximizes RMR profit with significant bottom line impact, unlike with cellular technologies that charge high monthly service fees.

## How to Order

AES Fire Subscribers	
7788F	8 Zone Fire Subscriber, 8 Supervised Zones, Red Enclosure.
7744F	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised Zones, Red Enclosure.
7788F-ULP	8 Zone Fire Subscriber, 8 Supervised Zones, includes 7794 AES- <i>IntelliPro</i> Fire, Red Enclosure.
7744F-ULP	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised, includes 7794 AES- <i>IntelliPro</i> Fire, Red Enclosure.
7788F-ULP-P	8 Zone Fire Subscriber, 8 Supervised Zones, includes 7795 AES- <i>IntelliPro</i> Fire, Red Enclosure. UL listed for primary standalone communication with fire radios.
7744F-ULP-P	4x4 Zone Fire Subscriber, 4 Reversing Polarity, 4 Supervised Zones, includes 7795 AES- <i>IntelliPro</i> Fire, Red Enclosure. UL listed for primary standalone communication with fire radios.
7788F-C	8 Zone Fire Alarm Subscriber. ULC listed for Canada.
7788F-C-ULP	7788F-C Fire Alarm Subscriber with AES- <i>IntelliPro</i> Fire full data module. ULC listed for Canada.
Add-on AES- <i>IntelliPro</i> Fire Modules	
7794	AES- <i>IntelliPro</i> Fire Full Data Module. UL listed for supplemental communication with fire radios.
7795	AES- <i>IntelliPro</i> Fire Full Data Module (7794) with 7762 Hardware Supervisory Module and 7740 AES Local Annunciator. UL listed for primary standalone communication with fire radios.
7742	7762 Hardware Supervisory Module and 7740 AES Local Annunciator. 7762 module provides power and supervision of the 7740 AES Local Annunciator.
AES Local Annunciator	
7740	7740 AES Local Annunciator. UL listed for use with 7795 module or 7742 module.

# Technical Specifications

## 7788F/7744F

### Dimensions

- 13.25"H x 8.5"W x 4.3"D  
(34cm H x 21.5cm W x 11cm D)

### Weight

- Approx. 7 pounds (3.2 kilograms),  
excludes battery

### Radio Frequency

- Standard Frequency Range: 450-470MHz  
(others available in 400-512MHz range)
- Output Power – 2 Watts and 5 Watts

### Antenna

- Included 2.5 db tamper resistant antenna  
mounts on enclosure
- Multiple remote antenna options available

### Power Input

- 16.5VAC, 40VA transformer (not included)  
(AES 1640, ELK TRG1640, MG Electronics  
MGT1640 – UL Listed for use)

### Backup Battery

- Will charge 12V battery up to 7.5 - 12 AH,  
• Requires 12VDC 7.5 AH battery for UL 864

### Alarm Signal Inputs (subscriber)

- 7788F – 8 individually programmable zones
- 7744F – 4 individually programmable  
zones and 4 reverse polarity inputs

### UL Standards

- UL 864 Edition 9 – Standard for  
Control Units and Accessories for Fire  
Alarm Systems
- UL 365 – Standard for Police Station  
Connected Burglary Alarm Units  
and Systems
- UL 1681 – Standard for  
Central Station Burglary Alarm Units

### Antenna Cut/Communication Trouble Output

- Form C relay; fail secure; rated for  
24 VDC 1A resistive

### Reset Button

- Located on main circuit board

### Operating Temperature

- 0° to 50° C (32° to 122°F)

### Storage Temperature

- -10° to 60° C (14° to 140°F)

### Relative Humidity

- 0 to 85% RHC, Non-Condensing

## 7794

- Transmits full data to AES-*MultiNet*  
receiver using Contact ID or Pulse formats
- Formats Supported: Contact ID, Pulse  
3+1, Pulse 4+1, Pulse 4+2, Modem IIe,  
and Modem IIIa2

### Input/Output Connections

- AES Subscriber – data and power
- Handheld/PC programming port
- Plain Old Telephone Service (POTS)  
incoming phone line
- Phone output connection from  
alarm panel
- Trouble output (form C relay)

### Size

- 4.875" x 5" (12.3cm x 12.7cm)

### Power Requirements

- 12 VDC nominal, primary and backup  
power provided by the AES RF  
Transceiver Unit

### Current Consumption

- 350 mA nominal

## 7795

- P/N 40-7795 is a kit that includes 7794  
module and 7762 Hardware Supervisory  
module. For 7794, please see Technical  
Specifications above

## 7762

- Hardware Supervisory Module

### Input/Output Connections

- J1 - AES 7794 (J2) or Subscriber  
(J1) - data and power
- Input for Subscriber J4 Output
- Input for AES 7740 Local  
Annunciator - data and power
- AES 7740/AES 7794 Trouble  
Output to Subscriber input zone

### Size

- 2.5" x 4.9375" (6.3cm x 12.5cm)

### Power Input

- 12VDC nominal, power supplied  
from AES 7794 module or AES  
7788F/7744F Subscribers

### Current Consumption

- 40 mA average; 100 mA peak

Specifications Subject to Change Without Notice



## About AES Corporation

Established in 1974, AES Corporation empowers companies to grow profitable alarm monitoring businesses, and government agencies to enhance security anywhere in the world. By providing the industry's only patented owner operated and controlled private wireless mesh networks, AES ensures superior reliability, low Total Cost of Ownership (TCO) and optimal Recurring Monthly Revenue (RMR) while reducing dependence on service provider infrastructures. The company's flagship AES-*IntelliNet*® systems are deployed in over a half million locations worldwide.

For more information, go to [www.aes-corp.com](http://www.aes-corp.com) or call  
**(800) 237-6387** or contact us at [sales@aes-corp.com](mailto:sales@aes-corp.com)

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by Honeywell

# E3 Series<sup>®</sup> Control Panel

## Description

The E3 Series<sup>®</sup> Expandable Emergency Evacuation System by Gamewell-FCI is in the forefront of the latest generation of fire alarm control panels. Employing the new high-speed Velociti<sup>®</sup> sensors, the E3 Series provides previously unattainable polling speed and response together with the flexibility demanded by today's emergency evacuation systems. In addition to their high-speed polling rate, the Velociti Series of sensors feature bi-polar LEDs that flash green for normal polling, and light red steadily to indicate an alarm.

The E3 Series is equipped with an 80-character LCD-E3 alphanumeric LCD display that allows 40 characters to be user-defined for custom installations. Up to six keyboard LCD displays may also be remotely located. In addition, you can install five of the familiar LCD-7100/RAN-7100 remote displays. The displays show instant system status information and can be connected in any desired area of an installation.

A high-speed 32-bit processor easily tackles a wide array of applications from small office buildings to multi-complex, high-rise installations.

The 64 node networking is made possible by 625K baud/ARCNET communications using twisted-pair copper cable, fiber-optic cable, or a combination of both. In addition, the Addressable Node Expander (ANX) board expands the network to 122 nodes.

The basic E3 Series is equipped with an ILI-MB-E3/ILI95-MB-E3 Intelligent Loop Interface-Main Board, ILI-S-E3/ILI95-S-E3 Intelligent Loop Interface Expansion Board, ANX, and ASM-16 Addressable Switch Module that features 16 software programmable switches, each accompanied by red, green and yellow LEDs that can be programmed to indicate operation of the switches. Additional ASM-16 modules may be added to expand the operation to a plateau previously unimagined.

The Intelligent Loop Interface - Expansion Board (ILI-S-E3/ILI95-S-E3) provides the E3 Series control panel with two additional electrically isolated signaling line circuits. The layout is similar to the ILI-MB-E3/ILI95-MB-E3 with the exception that a number of components are omitted. It occupies one node on the Broadband network.

E3 Series<sup>®</sup> and Velociti<sup>®</sup> are registered trademarks of Honeywell International Inc.

UL<sup>®</sup> is a registered trademark of Underwriters Laboratories Inc.

## Expandable Emergency Evacuation System



E3 Series

## Features

- IBC Seismic Certified.
- Listed under UL<sup>®</sup> Standard 864, 9th Edition.
- UL Listed for smoke control (dedicated and non-dedicated) when properly configured.
- UL Listed and FM Approved for Pre-action/Deluge and Agent Releasing.
- Styles 4, 6, or 7\* signaling line circuits.
- Two to 244 SLCs each supporting 159 sensors, 159 modules and 159 addressable sounder bases.
- 625K baud ARCNET communications using wire, fiber, or mixed configurations for installation flexibility.
- High-speed 32 bit processor and 8100 event history log.
- Advanced Boolean logic-based programming such as AND, OR, NOT, time delay and calendar functions configurable via computer programming.
- Supports up to (16), ASM-16 addressable switch or ANU-48 LED driver modules per ILI-MB-E3/ILI95-MB-E3.
- Two Class A, Style Z or Class B, Style Y, notification appliance circuits rated at 2.0 amps. per circuit.
- Integral city connection.
- Flexible 115,200 baud high speed RS-232 interface.
- 40 character user-defined text per device.
- 15 LCD-SLP displays/annunciators, 6 LCD-E3 displays/annunciators, 5 LCD-7100/RAN-7100 remote LED annunciators per ILI-MB-E3/ILI95-MB-E3.

\*Style 7 wiring requires the use of System Sensor M500X Isolator Modules.

SIGNALING



APPROVED  
S1869 3025415

ME A  
Approved

FDNY #: 6175  
COA # 231-06-E



City of  
Chicago

City of  
Denver



Class1  
Class2  
High Rise

Approved



THE VMA GROUP  
Reference Certificate  
of Compliance  
VMA-45894-02C  
(Revision 1)



GAMEWELL-FCI

12 Clintonville Road, Northford, CT 06472-1610 USA • Tel: (203) 484-7161 • Fax: (203) 484-7118

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## Description (Continued)

Each ILI-MB-E3/ILI95-MB-E3 can support as many as sixteen ANU-48 LED Driver modules supporting hundreds of LEDs on a 3rd party graphic annunciator for remote annunciation. The ANU-48 modules may be installed in any Listed remote annunciator. It can be remotely located via an RS-485 serial interface.

An array of cabinets allows for neat, compact, attractive installations.

## Installation

The E3 Series expandable emergency evacuation system offers four cabinet size options. A typical cabinet includes a backbox, an inner door, and an outer door. The E3 Series cabinet assembly is a compact 19 3/8" (49 cm) wide, wall-mounted enclosure.

Cabinet A includes the following four options:

- Cabinet A1 inner door mounted to the backbox. The backbox houses one NGA module.
- Cabinet A2 inner door mounted to the backbox. The backbox houses one LCD-E3 module.
- Two or three-bay inner door mounted to the backbox. The backbox typically houses one LCD-E3, or one NGA, and one or two ASM-16 modules.

Cabinet B contains a space for the ILI-MB-E3/ILI95-MB-E3, PM-9/PM-9G modules and batteries set inside the backbox. Additional module options mounted on the backbox include the DACT-E3, and RPT-E3 or ILI-S-E3/ILI95-S-E3/ANX. The 2-bay inner door houses one LCD-E3 module and one ASM-16 module.

Both Cabinets C and D include the following:

- Pre-assembled outer door that gives visibility to the fire fighter's phone handset and a microphone voice messaging system.
- Two inner door panel selections that may contain optional modules to meet the facility operation requirements.

In the Cabinet B, C and D backboxes, the ANX appears in the same place as the ILI-MB-E3/ILI95-MB-E3 and PM-9/PM-9G. For information on the installation instructions for any of the E3 Series cabinets, refer to the E3 Series® Expandable Emergency Evacuation Manual  
Part Number: LS10080-051GF-E.

## Specifications

- Operating Voltage:** 24 VDC  
**Operating Temperature:** Not to exceed the range of 32° to 120° F (0 to 49° C)  
**Relative Humidity:** Not to exceed 93% non-condensing at 90° F (32° C)

## Features (Continued)

### Velociti® Intelligent Sensor Features:

- Poll 318 devices in less than two seconds.
- Activate up to 159 outputs in less than five seconds.
- LED's blink associated device address during Walk Test.
- Fully digital, hi-precision protocol.
- Up to 9 levels of sensitivity adjustment.
- Pre-Alarm adjustable between 15 levels for both Alert and Action.
- Day/night automatic sensing adjustment.
- Sensitivity windows:
  - Ion .05 to 2% obscuration.
  - Photo 1 to 3% obscuration.
  - Laser .02 to 2% obscuration.
  - MCS Acclimate2F .5 to 4%, also self-adjustable options 1 to 2%, 2 to 3%, and 3 to 4%.
  - HARSH 1 to 3% obscuration.
- Drift compensation.
- Each Loop Card has its own integral processor providing maximum survivability on loss of any other component. SLC provides full response on loss of any other system processor.
- Optional programmable switches can be configured to enable, disable or group any combination of output devices.
- Integrated point or Grouped Cross Zoning allows for numerous devices installed at any location to cooperate and determine alarm condition.
- Automatic detector sensitivity testing.
- DIRTY and VERY DIRTY detector maintenance alerts.

## Ordering Information

Part Number	Description
<b>ILI-MB-E3</b>	Intelligent Loop Interface-Main Board
<b>ILI95-MB-E3</b>	Intelligent Loop Interface-Main Board
<b>ILI-S-E3</b>	Intelligent Loop Interface-Expansion Board
<b>ILI95-S-E3</b>	Intelligent Loop Interface-Expansion Board
<b>ANX-SR</b>	Addressable Node Expander-Single Ring
<b>ANX-MR-FO</b>	Addressable Node Expander-Multi-Ring Fiber Optic
<b>ANX-MR-UTP</b>	Addressable Node Expander-Multi-Ring Twisted-pair
<b>LCD-E3</b>	LCD-E3, LCD Keypad Display
<b>RPT-E3-UTP</b>	Network Repeater, unshielded, twisted-pair
<b>FML-E3</b>	Multi-Mode Fiber-Optic Module
<b>FSL-E3</b>	Single-Mode Fiber-Optic Module
<b>DACT-E3</b>	Digital Alarm Communicator Transmitter
<b>ANU-48</b>	ANU-48 LED Driver Module
<b>ASM-16</b>	Addressable Switch Module
<b>NGA</b>	LCD Network Graphic Annunciator
<b>PM-9</b>	Power Supply Module
<b>PM-9G</b>	Power Supply Module
<b>LCD-7100</b>	Remote LCD Display
<b>RAN-7100</b>	Remote LCD Display

For additional information on the cabinets, refer to the E3 Series Cabinets data sheet (Part Number: 9020-0649).

### Seismic Battery Bracket Kits

For information on the types of Seismic Battery Bracket Kits that are available, the Seismic Battery Bracket Kit Part Numbers and the installation instructions, refer to the following documents:

- Seismic Battery Bracket Installation Guide, P/N: 53839
- E3 Series Cabinets Data Sheet, P/N: 9020-0649

### GAMEWELL-FCI



**NGA**

by Honeywell

## Description

The Gamewell-FCI, NGA LCD Graphic Annunciator is a powerful, software programmable, touch-screen, remote annunciator. It is used with the following Gamewell-FCI systems.

- E3 Series® Expandable Emergency Evacuation System
- E3 Series Combined Fire and Mass Notification System
- E3 Series Broadband Voice Evacuation System

The bright, back-lit 1/4" VGA display is supplemented with an intuitive, easy-to-use touch-screen interface that provides the following features.

- Up to 512 user-defined messages may be configured.
- Messages may be up to 77 characters in length.
- Display font and color may be selected for each message.

The NGA mounts in the following enclosures or it can be remotely located.

- E3 Series Fire Command Center
- E3 Series Broadband Voice Command Center
- ACU Main Command Center
- E3 LOC Remote Command Center

It occupies one standard slot in the cabinet and directly connects to the INI-VGC or RPT-E3 which eliminates the need for a separate ARCNET interface. The NGA occupies one node on the Broadband network.

The back-lit LCD display indicates events stored in the System Event Log, the status of analog addressable monitor and control points and provides diagnostic fault codes/messages.

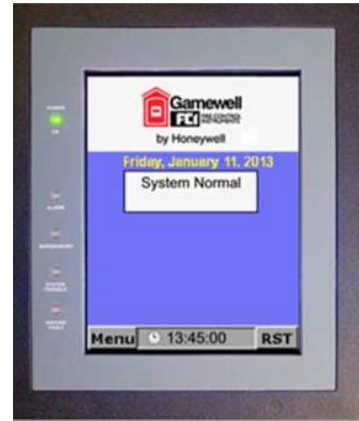
### NGA Touchscreen Tabs and Buttons

The attractive, state-of-the-art display is user-friendly, easy-to-read and affords the end-user with the means to perform numerous functions via the touch-screen feature which is software programmable. The following list the switch and system maintenance functions.

- |                   |                     |                  |
|-------------------|---------------------|------------------|
| • MNS Alarm       | • Fire Alarm        | • Signal Silence |
| • MNS Trouble     | • Fire Trouble      | • Menu           |
| • MNS Supervisory | • Fire Supervisory  | • Scroll Up      |
| • Fire Reset      | • Alarm Acknowledge | • Scroll Down    |
| • MNS Reset       | • Text Message      |                  |

E3 Series® and NetSOLO® are registered trademarks of Honeywell International Inc.  
UL® is a registered trademark of Underwriters Laboratories Inc.

## NGA Network Graphic Annunciator



NGA

## Features

- Listed under UL® Standard 864, 9th Edition.
- Listed under UL Standard UL2572 for Mass Notification.
- 1/4" VGA display multipurpose touchscreen provides the following options:
  - Up to 512 user-defined messages may be configured.
  - Messages can be up to 77 characters in length.
  - Display font and color may be selected for each message.
- Software programmable touch-screen interface.
- Mounts in the following command center mounting spaces or enclosures.
  - E3 Series Expandable Emergency Evacuation System
  - E3 Series Broadband Voice Evacuation Systems
  - E3 Series Combined Fire & Mass Notification System
- 625K baud ARCNET communications.
- User-friendly design.
- Includes an RS-232 interface.

SIGNALING



ME A

Approved  
FDNY: 7165-1703:0125  
COA #6077



City of  
Chicago  
Approved  
Class1  
Class2  
High Rise

City of  
Denver  
Approved



### GAMEWELL-FCI

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### NGA LEDs

Additional LEDs located on the display panel perimeter indicate the following conditions.

- Power On
- System Trouble
- Ground Fault
- Alarm
- Supervisory

Figure 1 illustrates the NGA Screen with an MNS Alarm Event.



Figure 1 NGA Screen with MNS Alarm Event

Figure 2 illustrates the NGA System Reset screen for an Inactive Fire/MNS Event.

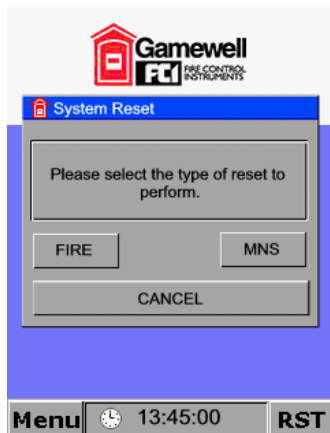


Figure 2 NGA Reset Screen for Inactive Fire/MNS Buttons

### Specifications

- Operating Voltage:** 24 VDC from the PM-9/PM-9G power supply
- Operating Current:** 0.200 amp\*
- Alarm Current:** 0.200 amp
- Operating Temperature:** 32° to 120° F (0° to 49° C)
- Relative Humidity:** 0-93% non-condensing at 90° F (32° C)

\*Normal operating current. During power failure, current drops to 0.045 amp, since the back light is extinguished.

### Ordering Information

Part Number	Description
1100-0505	Network graphic annunciator

### GAMEWELL-FCI