# FIRE ALARM LEGEND

| SYMBOL | DEVICES | SUPPLIED BY | INSTALLED BY | CONDUCTOR |
|---|---|---|---|---|
| FCP | FIRE ALARM PANEL-INSTALLED 5'-0" AFF #MS 9200 UDLS | F/A CONT | ELECTRICAL | |
| | POWER SUPPLY 24 V.D.C. 8A FIRE-LITE FCPS-24FS8 | F/A CONT | F/A CONT | |
| FSA | REMOTE LCD ANNUNCIATOR KEY PAD. MOUNT TOP 5'-0" A.F.F. FIRE-LITE #LCD-80F | F/A CONT | F/A CONT | 4c#18(SH) FPL |
| BACP | BURGULAR ALARM CONTROL PANEL RADIONICS/BOSCH 7412G WITH 12VDC 7Ah BATTERY | F/A CONT | F/A CONT | 4c#18(SH) FPL |
| KB | KNOX BOX - 8'-0: TO 10'-0" A.F.F. LOCATED AS REQUIRED BY LOCAL AUTHORITY | F/A CONT | F/A CONT | 2#22 FPL |
| J-BOX | JUNCTION BOX - 12"x 12"x 4" MOUNTED AT CEILING (12'-0" A.F.F.) | ELECTRICAL | ELECTRICAL | |
| K | REMOTE LED KEY PAD INSTALL IN 1 GANG AT 5' A.F.F. RADIONICS D1255 | F/A CONT | F/A CONT | 4#16 FPL 2#16 FPL |
| OD | OUTDOOR BURGLARY SIREN - AMSECO #SSX52A INSTALL IN 4" SQ. BOX | F/A CONT | F/A CONT | |
| S | BURGLARY SIREN INSTALL IN 4" SQ. SYSTEM SENSOR PA400W | F/A CONT | F/A CONT | 2#14(HC) FPL |
| | FIRE ALARM HORN-STROBE-'RED' EXTERIOR WALL MOUNTED IN 4" SQ. BOX AT 80" WHEELOCK ASWP2475W-FR 95 dBA) | F/A CONT | F/A CONT | 2#14(HC) FPL |
| | FIRE ALARM HORN-STROBE-'RED' INSTALLED IN THE 4" SQ. BOX AT 80" WHEELOCK #HSR 75 CANDELA (MIN.) | F/A CONT | F/A CONT | 2#14(HC) FPL |
| PS | PRESSURE SWITCH - MODULE MMF-300 (NOTE: SHALL BE CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX) | SPRINKLER | SPRINKLER | |

| SYMBOL | DEVICES | SUPPLIED BY | INSTALLED BY | CONDUCTOR |
|---|---|---|---|---|
| | FIRE ALARM HORN-STROBE-'RED' INSTALLED IN THE 4" SQ. BOX. SET AUDIBLE TO 95 dBA. 100 CANDELA (MIN.) WHEELOCK #HSRC | F/A CONT | F/A CONT | 2#14(HC) FPL |
| WP | FIRE ALARM STROBE-'RED' INSTALLED IN 4" SQ. BOX AT 80" WHEELOCK RSSWP-2475W | F/A CONT | F/A CONT | 2#14(HC) FPL |
| | FIRE ALARM STROBE-'RED' INSTALLED IN 4" SQ. BOX AT 80" WHEELOCK #STR | F/A CONT | F/A CONT | 2#14(HC) FPL |
| | FIRE ALARM STROBE-'RED' CEILING MOUNTED IN 4" SQ. BOX WHEELOCK #STRC | F/A CONT | F/A CONT | 2#14(HC) FPL |
| I | DUCT SMOKE DETECTOR CONNECT BY FLEXIBLE CONDUIT TO J-BOX ( NOTE: VERIFY SIZE OF SAMPLING TUBE ) FIRE-LITE #D355PL | F/A CONT | MECHANICAL | 4#16 FPL 2#16 FPL |
| P | CEILING MOUNTED PHOTO ELECTRIC SMOKE DETECTOR. FIRE-LITE #SD355 | F/A CONT | F/A CONT | 4#22 FPL |
| D | ANSUL SWITCH CAT #32222 DUAL CONTACTS | MECHANICAL | MECHANICAL | 4#14 FPL |
| P | FIRE ALARM MANUAL PULL STATION INSTALLED 4" SQ. W/ SINGLE GANG PLASTER RING BOX 48" A.F.F.. FIRE-LITE #BG-12LX, COVER #STI-1100 | F/A CONT | F/A CONT | 2#16 FPL |
| R/F | CEILING MOUNTED RATE OF RISE-FIXED ADDRESSABLE HEAT DETECTOR. FIRE-LITE #H355 | F/A CONT | F/A CONT | |
| E | SAFE / DOOR CONTACT INSTALLED IN 4" SQ. BOX. ADT #34542M/34542S | F/A CONT | F/A CONT | 2#22 FPL |
| R | DIRECTIONAL INFRARED DETECTOR - SINGLE GANG MTD AT 7'-0" A.F.F. (ADT #DS774) | F/A CONT | F/A CONT | 4#22 FPL |
| A1/2 | ANSUL SWITCH CAT #32222 DUAL CONTACTS WITH FIRE-LITE #MMF-300 | BY OTHERS | MECHANICAL | |

| SYMBOL | DEVICES | SUPPLIED BY | INSTALLED BY | CONDUCTOR |
|---|---|---|---|---|
| Rc | 360° INFRARED DETECTOR - SINGLE GANG MTD AT CEILING (BOSCH #DS9370) | F/A CONT | F/A CONT | 4#22 FPL |
| CR | ADDRESSABLE RELAY MODULE CAT. #CRF-300 | F/A CONT | F/A CONT | |
| GB | GLASS BREAK SENSOR - SINGLE GANG MTD AT CEILING. RADIONICS #EN1247 | F/A CONT | F/A CONT | 4#22 FPL |
| RT | REMOTE TEST BUTTON - BUTTON WITH 4" J.B. & PLASTER RING (7'-0" A.F.F.) ON COL. #RTS 151 | F/A CONT | F/A CONT | 4#14 FPL |
| | FLOW SWITCH-CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX. MODULE MMF-300 | SPRINKLER | SPRINKLER | 2#16 FPL |
| | TAMPER PROOF SWITCH-CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX. MODULE MMF-303 | SPRINKLER | SPRINKLER | 2#16 FPL |
| EOLR | END OF LINE RESISTOR | F/A CONT | F/A CONT | |
| EOLM | ESL 204-12/24 SMOKE POWER SUPERVISION MODULE | F/A CONT | F/A CONT | |
| SS | CIRCUIT SURGE SUPPRESSION DEVICE EDCO-FSA-1-0-33HC | F/A CONT | F/A CONT | 2#14(HC) FPL |
| M | ADDRESSABLE MONITOR MODULE MOUNTED IN 4" SQ. x 2-1/8" DEEP J.BOX MMF 300 | F/A CONT | F/A CONT | 2#14(HC) FPL |

HC - HORN CIRCUIT BS - BURGLARY SOUNDERS
SH - SHIELDED SDP - SMOKE DETECTOR PANEL

# MINIMUM FIRE ALARM AND SECURITY ALARM PERFORMANCE SPECIFICATIONS

GENERAL:

- THE PURPOSE OF THIS DRAWING IS SOLELY TO PROVIDE THE ELECTRICAL CONTRACTOR WITH A RACEWAY AND OUTLET SYSTEM THAT CLOSELY REPRESENTS A LAYOUT THAT IS EXPECTED TO BE DESIGNED BY THE FIRE/SECURITY ALARM ENGINEER IN ORDER TO MORE ACCURATELY PREPARE A BID PACKAGE AND TO PROVIDE THE FIRE/SECURITY ENGINEER WITH CERTAIN DESIGN CRITERIA.
- THE FIRE ALARM MANUFACTURER REPRESENTATIVE (FAMR) SHALL SUBMIT SHOP DRAWINGS OF A FIRE ALARM AND SECURITY (BURGLAR) SYSTEM, SIGNED AND SEALED BY AN ELECTRICAL ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS TO BE BUILT. THE SUBMITTED DESIGN SHALL ACCOMMODATE THE CONDUIT AND DEVICES SHOWN ON THE DRAWING(S), BUT MAY AUGMENT OR INCREASE THE QUANTITY AND/OR SIZE OF THE CONDUIT (EMT) AND/OR DEVICES, IF REQUIRED TO MEET OTHER CRITERIA.
- PRODUCT DATA SHEETS FOR ALL COMPONENTS REQUIRED BY THE DESIGN SHALL BE SUBMITTED.
- THE SUBMITTAL SHALL BE PROVIDED TO THE OWNER, GENERAL CONTRACTOR, AND ELECTRICAL CONTRACTOR FOR REVIEW/APPROVAL.
- IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), COMPLETE INFORMATION REGARDING THE SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY FOR APPROVAL.
- IF REQUIRED BY THE OWNER, OR IF ANY RACEWAYS OR OUTLETS ARE REQUIRED TO BE MODIFIED FROM WHAT IS INDICATED ON THE DRAWINGS, ANY OR ALL INFORMATION, INCLUDING RELATED CALCULATIONS, SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- ADA COMPLIANCE: THE FIRE ALARM SYSTEM SHALL COMPLY WITH FEDERAL AND/OR STATE ADA REQUIREMENTS. DEPARTURES FROM PARTICULAR TECHNICAL AND SCOPING REQUIREMENTS OF APPLICABLE CODES BY THE USE OF OTHER DESIGNS AND TECHNOLOGIES ARE PERMITTED WHERE THE ALTERNATIVE DESIGNS AND TECHNOLOGIES USED WILL PROVIDE SUBSTANTIALLY EQUIVALENT OR GREATER ACCESS TO AND USABILITY OF THE SPACE.

ALARM REQUIREMENTS:

- THE FIRE ALARM SHALL CONSIST OF A POWER LIMITED, FULLY ADDRESSABLE SYSTEM WITH FULL NOTIFICATION CAPABILITY.
- THE BURGLAR SYSTEM SHALL BE SEPARATE FROM THE FIRE ALARM SYSTEM LOCATION AND AUDIBILITY.
- SECURITY ALARM DEVICES TO BE INSTALLED AT EACH EXIT/ENTRANCE, COMPACTOR CHUTE AND ROOF HATCH.
- FIRE ALARM DEVICES TO BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES ON WALLS IN WORK SPACES AND SUSPENDED FROM CEILING OVER THE SALES FLOOR AND RECEIVING STORAGE. SUSPENDED HORNS AND/OR STROBES SHALL BE MTD. AT THE SAME LEVEL AS THE LUMINAIRE SERVING. THE AREA BUT NO HIGHER THAN 20'-0" A.F.F. WITH COVERAGES AS PER NFPA 72, 2010, SECTION 18.5.4.3.1.
- COORD. ALL WALL MTD. DEVICES WITH OTHER TRADES AND EQUIPMENT.
- NOTIFICATION APPLIANCE CIRCUITS (NAC) TO BE CLASS 'B', STYLE 'Y'.
- INTENSITIES OF AUDIBLE AND VISUAL DEVICES SHALL MEET REQUIREMENTS OF NFPA 72 AND SHALL BE NOTED ON THE SHOP DRAWINGS.

TYPES OF ALARMS AND INITIATION DEVICES:

- ALARM TYPES TO MEET THE REQUIREMENTS OF NFPA 72 AND LOCAL ORDINANCES.
- ALL COMPONANTS TO BE COMPATABLE, U.L. LISTED AND LABELED FOR THE INTENDED LOCATION OF USE.
- INITIATION DEVICE CIRCUITS (IDC) AND COMPONENTS TO BE CLASS 'B'.
- ALL AIR HANDLING UNITS (AHU's) SHALL SHUT DOWN UPON ALARM VIA FIRE ALARM CONTROL RELAY.
- SEE FIRE ALARM LEGEND (THIS SHEET) FOR SPECIFIC DEVICE REQUIREMENTS.

NOTIFICATION REQUIREMENTS:

- ALL AUDIBLE AND VISUAL DEVICES TO BE SYNCHRONIZED WITH RESPECTIVE DEVICE TYPE.
- FIRE ALARM AND BURGLAR ALARM SYSTEMS SHALL PROVIDE NOTIFICATION OF ALARM TO CENTRAL MONITORING CENTER (ADT).
- CONTRACTOR SHALL VERIFY THAT INTENSITY LEVELS OF AUDIBLE DEVICES MEET OR EXCEED NFPA 72 AND LOCAL ORDINANCES FOR MIN. DECIBEL LEVELS (dB) ABOVE AMBIENT. PROVIDE ADDITIONAL DEVICES AS REQUIRED.
- SEE FIRE ALARM LEGEND (THIS SHEET) FOR SPECIFIC DEVICE REQUIREMENTS.

INSTALLATION REQUIREMENTS:

ALL CONDUIT AND J-BOXES (RACEWAY SYSTEM) TO BE INSTALLED BY LICENSED ELECTRICAL CONTRACTOR.

a. ALL WALL MTD. AND COL. MTD. DEVICES ARE TO CONSIST OF A FLUSH MTD. J-BOX WITH 1"C (MIN.) TO CEILING OR JOIST SPACE.
b. ALL ENTRY POINTS FOR CABLE TO CONDUIT OR J-BOXES SHALL HAVE PROPER BUSHINGS INSTALLED AS REQUIRED BY NFPA 70 (NEC).
c. ALL CONDUIT AND CONDUCTORS SHALL BE PROPERLY SUPPORTED AS REQUIRED BY NFPA 70 (NEC).
d. MAXIMUM NUMBER OF CONDUCTORS IN CONDUIT (EMT) SHALL COMPLY WITH NFPA 70 (NEC).
e. KNOX BOX SHALL BE LOCATED NEAR FRONT ENTRANCE OF BUILDING. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH LOCAL A.H.J.

- ALL FIRE ALARM AND BURGLAR ALARM DEVICES AND WIRING SHALL BE SUPPLIED AND INSTALLED BY LICENSED FIRE ALARM CONTRACTOR (FIRE ALARM MANUFACTURER REPRESENTATIVE - FAMR).

a. CONTRACTOR SHALL "FREE- WIRE" EXPOSED CONDUCTORS PARALLEL OR PERPENDICULAR TO BUILDING STEEL.
b. ALL EXPOSED CONDUCTORS SHALL BE INSTALLED ONLY AFTER COMPLETION OF PAINTING IN EFFECTED AREA.
c. CEILING MTD. SMOKE DETECTORS SHALL BE INSTALLED 3'-0" FROM AIR SUPPLY (DIFFUSER) AND NOT IN AIR FLOW.
d. DUCT MTD. SMOKE DETECTORS SHALL BE INSTALLED BY MECH. CONTRACTOR, AND WIRED BY FIRE ALARM CONTRACTOR.
e. RED FIRE ALARM STROBE BACK BOX SHALL BE USED FOR HORNS AND HORN STROBES MOUNTED ON COLUMNS OR WIREMOLD COMMUNICATION POLES.

BACKUP POWER REQUIREMENTS:

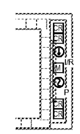
- BATTERY BACKUP, POWER SUPPLY AND VOLTAGE DROP CALCULATIONS SHALL BE INCLUDED ON SHOP DRAWINGS.
- BATTERY BACKUP SHALL COMPLY WITH MIN. REQUIREMENTS OF NFPA 72.

APPLICABLE REGULATORY REQUIREMENTS:

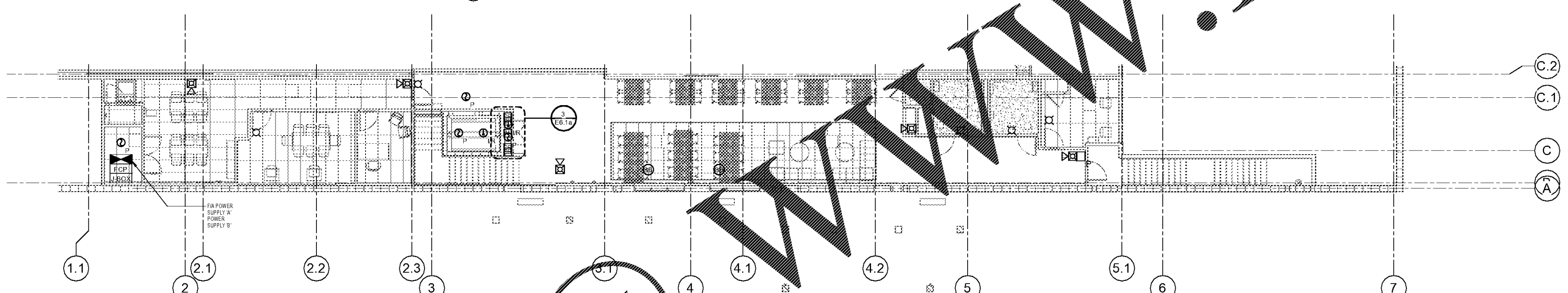
- THE FIRE ALARM AND SECURITY ALARM DESIGN SHALL COMPLY WITH MINIMUM REQUIREMENTS OF NFPA 70 (NEC), NFPA 72, NFPA 90A, NFPA 101, ADA, FBC ACCESSIBILITY CODE (FLORIDA ONLY) AND ALL APPLICABLE CODES AND ORDINANCES.

MINIMUM DESIGN DOCUMENT CRITERIA:

- SYSTEM RISER DIAGRAM
- DEVICE TYPES AND LOCATIONS
- TYPES OF CONDUCTORS INCLUDING:
  a) INSTALLATION REQUIREMENTS
  b) RATING IDENTIFICATION
  c) LISTING REQUIREMENTS
- NOTIFICATION REQUIREMENTS
- BACKUP POWER REQUIREMENTS




3 ALARM_MEZZ -ELEV CLOS
1/4" = 1'-0"




1 E6.1a FIRE ALARM MEZZANINE PLAN
SCALE: 1/8" = 1'-0"

## GENERAL FIRE/ SECURITY ALARM NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE PERMIT, INSTALLATION, AND PROGRAMMING, OF THE FIRE ALARM AND SECURITY ALARM SYSTEM.
2. INSTALLATION OF THE FIRE ALARM AND SECURITY ALARM SYSTEMS SHALL COMPLY WITH THE INFORMATION IN THESE DRAWINGS AND FIRE ALARM AND SECURITY ALARM SYSTEM SPECIFICATIONS ON DWG. E-6.1b
3. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL BUILDABLE PERMIT PLANS FOR THE PROJECT FROM PUBLIX'S FIRE ALARM AND SECURITY ALARM ENGINEER, TRICON ENGINEERS, INC. CONTACT DENNIS VANN 813 227 9195.
4. NO SUBSTITUTIONS OF ANY FIRE ALARM OR SECURITY ALARM SYSTEMS IN WHOLE OR PART SHALL BE ALLOWED. ALL DEVICES AND COMPONENTS SHALL BE AS SPECIFIED ON THIS DRAWING AND IN SHOP SUBMITTALS.
5. NO DEVIATION FROM THE DESIGN INDICATED IN THIS DRAWING SHALL BE ALLOWED WITHOUT SUBMITTING IN WRITING A REQUEST FOR REVIEW, APPROVAL AND PLANS REVISION, FROM PUBLIX ENGINEER OF RECORD OR THE FIRE ALARM/SECURITY ALARM ENGINEER OF RECORD.
6. THE FIRE ALARM/SECURITY ALARM CONTRACTOR WILL BE RESPONSIBLE FOR ALL PERMITS, INSPECTIONS, AND ASSOCIATED COSTS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
7. THE FIRE ALARM CONTRACTOR SHALL PROVIDE A 11"X17" LAMINATED ZONE MAP ADJACENT TO THE FIRE ALARM KEYPAD AT THE ENTRANCE. THE DRAWING FOR THE ZONE MAP SHALL BE ACQUIRED FROM TRICON ENGINEERS.
8. ALL BURGLAR ALARM INITIATING DEVICES SHALL BE SUPPLIED WITH A POPIT MONITORING MODULE.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THE DESIGN INDICATED IN THESE CONSTRUCTION DOCUMENTS DOES; TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF; COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES


PLOT DATE:
August, 21 2018

| No. | Description | Date |
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STORE NUMBER
1687
Tattersall Park

US 280 & Highway 19
Hoover
Shelby Co., AL

48.10
V0514-2018
SIENNA LITE

MEZZANINE
FIRE ALARM

As indicated

E6.1a

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