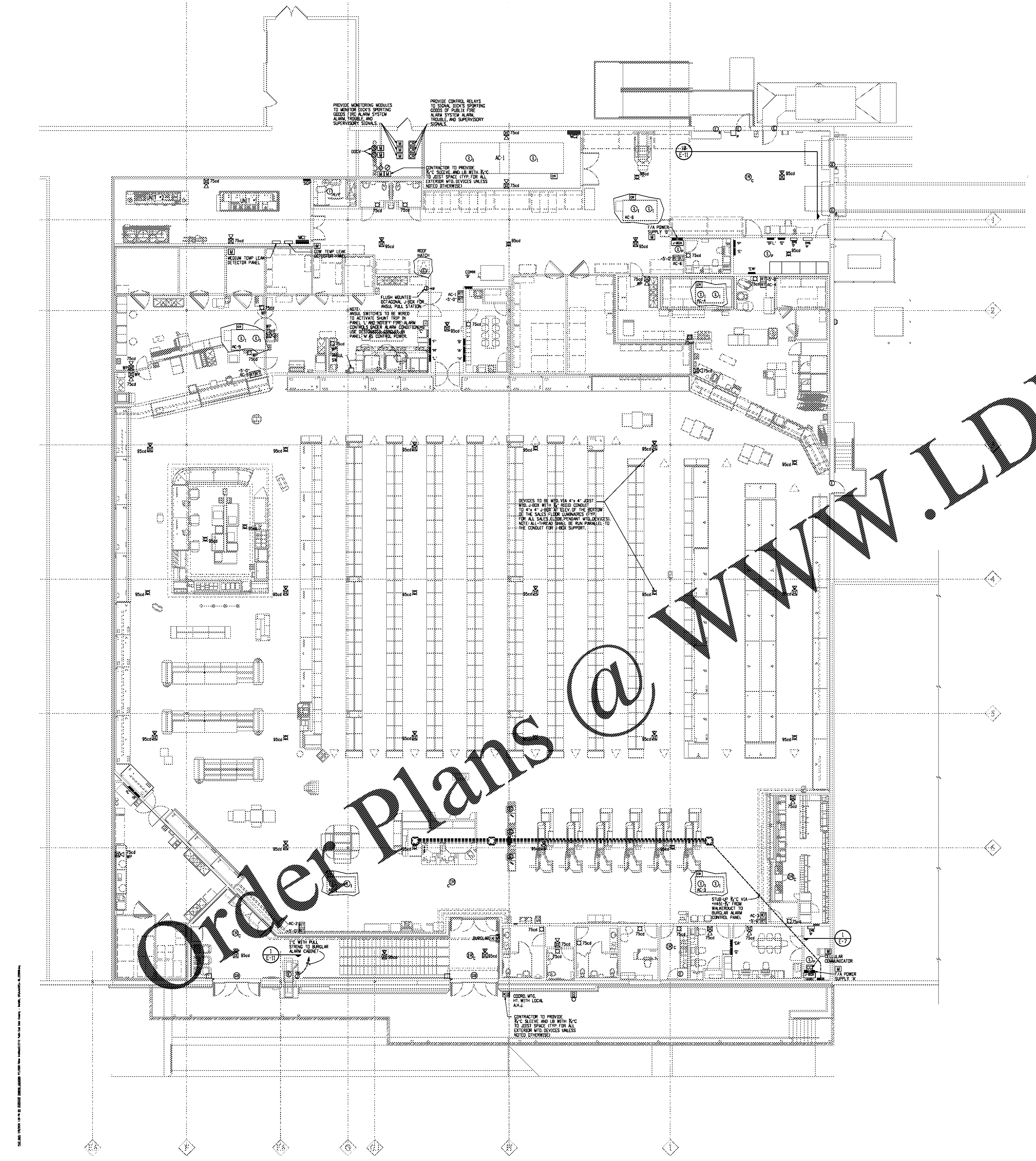


SCALE = 1/8" = 1'-0"

FIRE ALARM LEGEND

SYMBOL	DEVICES	SUPPLIED BY	INSTALLED BY	CONDUCTOR
FCP	FIRE ALARM PANEL-INSTALLED 5'-0" AFF ES-200X	F/A CONT	F/A CONT	
(power supply)	POWER SUPPLY 24 V.D.C. 8A FIRE-LITE FCPS-24FS8	F/A CONT	F/A CONT	
CC	CELLULAR COMMUNICATOR TELGUARD TG-7FS	F/A CONT	F/A CONT	
FSA	REMOTE LCD ANNUNCIATOR KEY PAD. MOUNT TOP 5'-0" A.F.F. FIRE-LITE ANN-80	F/A CONT	F/A CONT	4c#18(SH) FPL
BACP	BURGLAR ALARM CONTROL PANEL RADIONICS/BOSCH B6512-CV4 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#18 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. BOSCH 01260	F/A CONT	F/A CONT	4#16 FPL 2#16 FPL
DD	OUTDOOR BURGLARY SIREN - AMSECO #SSX-52 INSTALL IN 4" SQ. BOX	F/A CONT	F/A CONT	2#14 FPL
S	BURGLARY SIREN INSTALL IN 4" SQ. SYSTEM SENSOR PA400W	F/A CONT	F/A CONT	2#14(HC) FPL
WP	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
(horn-strobe)	FIRE ALARM HORN-STROBE-'RED' INSTALLED IN 4" SQ. BOX AT 80" WHEELOCK #HSR 75 CANDELA (MIN.)	F/A CONT	F/A CONT	2#14(HC) FPL
(horn-strobe ceiling)	FIRE ALARM HORN-STROBE-'RED' CEILING MOUNTED IN 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
(strobe)	FIRE ALARM STROBE-'RED' INSTALLED IN 4" SQ. BOX AT 80" WHEELOCK #STR	F/A CONT	F/A CONT	2#14(HC) FPL
(strobe ceiling)	FIRE ALARM STROBE-'RED' CEILING MOUNTED IN 4" SQ. BOX WHEELOCK #STRC	F/A CONT	F/A CONT	2#14(HC) FPL
2 I	DUCT SMOKE DETECTOR CONNECT BY FLEXIBLE CONDUIT TO J-BOX (NOTE: VERIFY SIZE OF SAMPLING TUBE) FIRE-LITE #D355PL	F/A CONT	MECHANICAL	2#18 FPL
2 P	CEILING MOUNTED PHOTO ELECTRIC SMOKE DETECTOR, FIRE-LITE #SD365	F/A CONT	F/A CONT	2#18 FPL

SYMBOL	DEVICES	SUPPLIED BY	INSTALLED BY	CONDUCTOR
D	ANSUL SWITCH CAT #32222 DUAL CONTACTS	MECHANICAL	MECHANICAL	2#18 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#18 FPL
R/F	CEILING MOUNTED RATE OF RISE-FIXED ADDRESSABLE HEAT DETECTOR, FIRE-LITE #H365	F/A CONT	F/A CONT	2#18 FPL
E	SAFE / DOOR CONTACT INSTALLED IN 4" SQ. BOX, GRI #4532	F/A CONT	F/A CONT	2#18 FPL
E R	ROLL-UP DOOR CONTACT INSTALL IN 4" SQ x 2 ⅛" DEEP JUNCTION BOX GRI #4612	F/A CONT	F/A CONT	2#18 FPL
IR	DIRECTIONAL INFRARED DETECTOR - SINGLE GANG MTD AT 7'-0" A.F.F. (BOSCH #DS778)	F/A CONT	F/A CONT	4#18 FPL
IR C	360° INFRARED DETECTOR - SINGLE GANG MTD AT CEILING (BOSCH #DS9370)	F/A CONT	F/A CONT	4#18 FPL
CR	ADDRESSABLE RELAY MODULE CAT. #CRF-300	F/A CONT	F/A CONT	
GB	GLASS BREAK SENSOR - SINGLE GANG MTD AT CEILING, HONEYWELL #FG1625T	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
(diamond)	FLOW SWITCH-CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX, MODULE MMF-300	SPRINKLER	SPRINKLER	2#16 FPL
(slashed circle)	TAMPER PROOF SWITCH-CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX, MODULE MMF-300	SPRINKLER	SPRINKLER	2#16 FPL
PS	PRESSURE SWITCH-CONNECTED BY FLEXIBLE CONDUIT FROM 4" SQ. BOX, MODULE MMF-300	SPRINKLER	SPRINKLER	2#16 FPL
EOLR	END OF LINE RESISTOR	F/A CONT	F/A CONT	
SS	CIRCUIT SURGE SUPPRESSION DEVICE CAT. EDCO-FS[illegible]	F/A CONT	F/A CONT	2#[illegible](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#18(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, 2013.
- 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 COMPONENTS TO BE COMPATIBLE, 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:

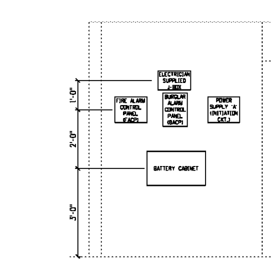
- THE FIRE ALARM AND SECURITY ALARM DESIGN SHALL COMPLY WITH MINIMUM REQUIREMENTS OF NFPA 70 (NEC), NFPA 72, NFPA 90A, NFPA 101, ADA, FBC 11-4.28.3 (FLORIDA ONLY) AND ALL APPLICABLE CODES AND ORDINANCES.

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

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-7a
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 CONNECT TO A POPPIT.



1 FIRE/BURGLAR ALARM
SCALE: ½"=1'-0"

NOTE:

THE JURISDICTION MAY REQUIRE A BI-DIRECTIONAL AMPLIFIER SYSTEM (BDA) BE INSTALLED TO DISTRIBUTE RADIO SIGNALS WITHIN THE BUILDING. UPON COMPLETION OF THE BUILDING INTERIOR WALLS, THE ELECTRICAL CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED COMMUNICATIONS CONTRACTOR TO PERFORM A STUDY TO DETERMINE THE NECESSITY OF A BDA. A COPY OF THE REPORT SHALL BE SUBMITTED TO THE FIRE DEPARTMENT AND THE ENGINEER OF RECORD NO LATER THAN 60 DAYS PRIOR TO SCHEDULED DATE OF SUBSTANTIAL COMPLETION. THE QUALIFIED COMMUNICATION CONTRACTOR SHALL UTILIZE THE FOLLOWING CONTRACTOR:

- AFL – (813) 299-5750 CONTACT: DAN HENDERSON

ADDITIONALLY, THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR QUOTE AN ADD ALTERNATE TO PROVIDE THE BDA SYSTEM.

APOLLO ENGINEERING, LLC
CONSULTING ENGINEERS
PEF005833
6544 U.S. Hwy 41 North, Suite 209B, Apollo Beach, FL 33572
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TO THE BEST OF MY KNOWLEDGE, THE SPECIFICATIONS AND PLANS SHOWN HEREIN COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES IN EFFECT AT THIS TIME.

PUBLIX PROTOTYPE
BASIS OF DESIGN
20M
EXPANDED
RECEIVED: 09.14.18

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ELECTRICAL FIRE/BURGLER ALARM DEVICE LAYOUT
EAST COBB PUBLIX - #1745
EAST COBB CROSSING SHOPPING CENTER
ROSEWELL ROAD
MARIETTA, GA 30062

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E-7

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