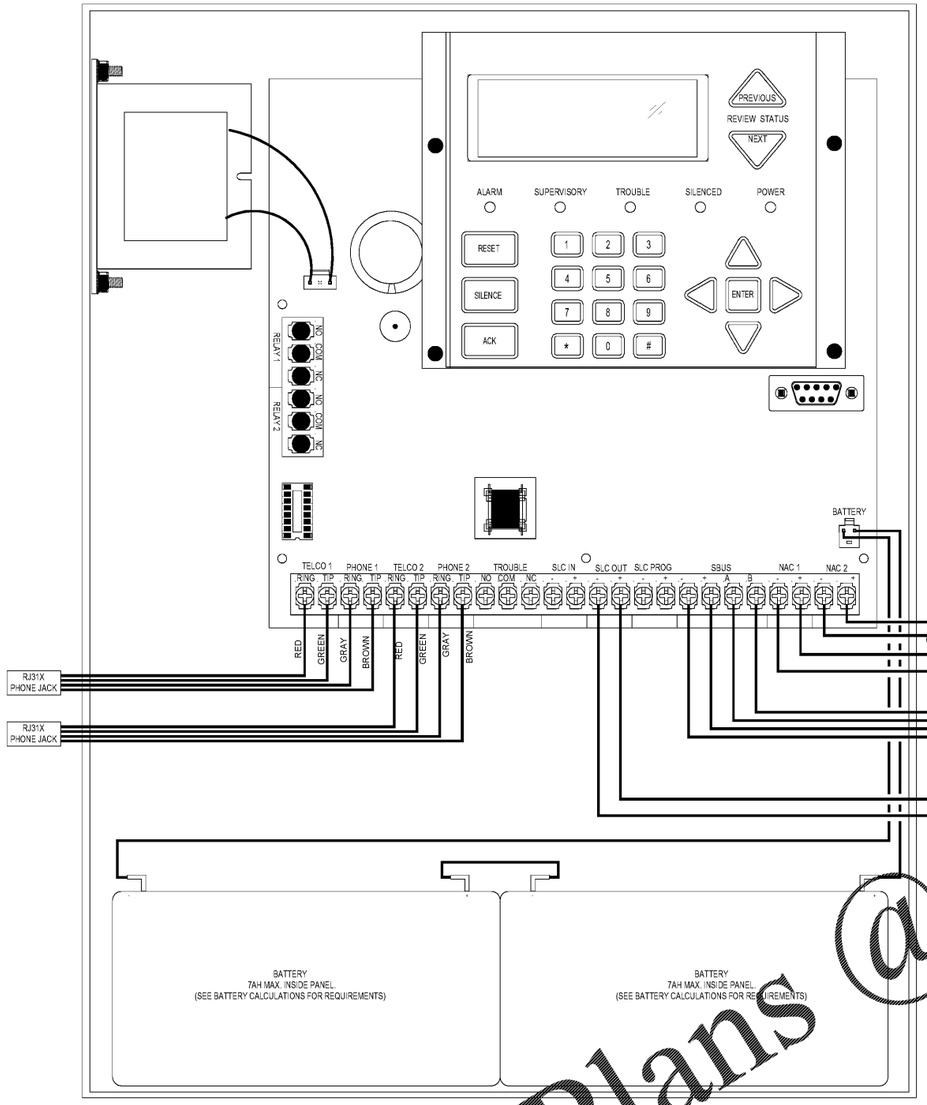
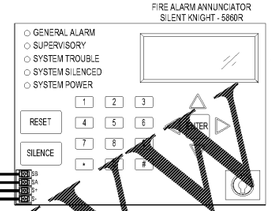
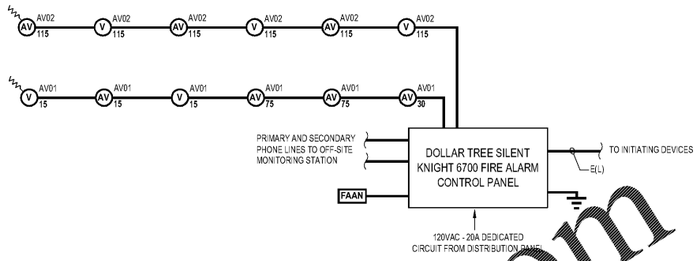


1 FA3 FIRE ALARM CONTROL PANEL LAYOUT
NOT TO SCALE

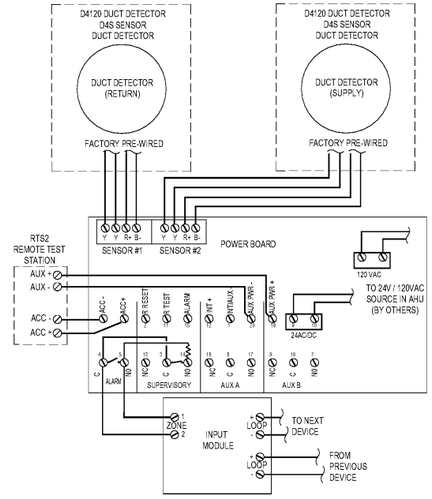




NOTES:

1. PROVIDE BATTERY BACKUP IN THE APS AS NEEDED. DEDICATED 120 VAC CIRCUITS SHALL BE PROVIDED.
2. PROVIDE SUPERVISION OF ALL 120 VAC POWER AND THEIR NOTIFICATION APPLIANCE CIRCUITS.
3. PROVIDE A SUFFICIENT QUANTITY OF THE FAAN CIRCUIT TO SATISFY THE DRAWING AND SPECIFICATION REQUIREMENTS. PROVIDE POWER AND VOLTAGE DROP CALCULATIONS FOR THE CIRCUIT.

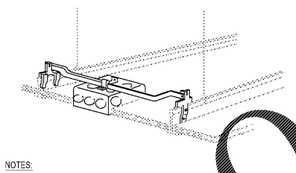
2 FA3 FIRE ALARM RISER DIAGRAM
NOT TO SCALE



NOTES:

1. DUCT SMOKE DETECTORS SHALL BE POWERED FROM THE ASSOCIATED AIR HANDLING UNIT (AHU) AND MONITORED BY THE FIRE ALARM CONTROL PANEL (FACP).
2. THE FACP SHALL SUPERVISE ALL POWER CONNECTIONS AND TROUBLE CONDITIONS.
3. LOSS OF POWER TO A DUCT DETECTOR (AHU SUPPLIED POWER) SHALL TRANSMIT A TROUBLE CONDITION TO THE FACP.
4. CONFIGURE THE DUCT SMOKE DETECTOR TO UTILIZE THE AUXILIARY ALARM CONTACTS OF THE DUCT SMOKE DETECTOR TO SHUTDOWN THE RTU THROUGH THE INDIVIDUAL RTU CONTROLLER. PROVIDE ANY REQUIRED INTERMEDIATE RELAYS FOR CONNECTIONS TO HVAC CONTROLS. PROVIDE CABLING AND WIRING CONNECTIONS TO HVAC CONTROLS. FINAL TERMINATIONS TO HVAC CONTROLS ARE BY MECHANICAL OR CONTROLS CONTRACTOR.

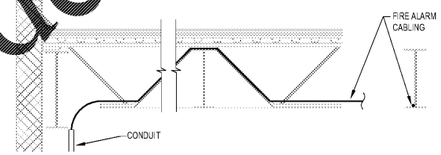
6 FA3 DUCT DETECTOR WIRING DETAIL
NOT TO SCALE



NOTES:

1. DEVICES AND APPLIANCES SHALL NOT BE SUPPORTED BY CEILING TILES.
2. DEVICES AND APPLIANCES MUST BE ATTACHED TO A MANUFACTURED APPROVED BACKBOX SUPPORTED BY THE CEILING GRID UTILIZING AN APPROPRIATE SUPPORT BAR.
3. THE CEILING MOUNTED DEVICES AND APPLIANCES SHALL BE INSTALLED ALIGNED AESTHETICALLY WITH THE CEILING LIGHTING, SPRINKLERS, AND OTHER FIXTURES AS SHOWN ON FLOOR PLANS.
4. DETECTORS SHALL BE LOCATED MORE THAN THREE (3) FEET FROM AIR SUPPLY DIFFUSERS OR RETURN AIR OPENINGS AS INDICATED IN NFPA 72.

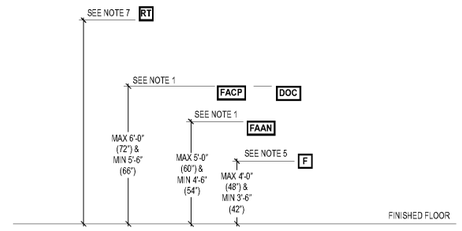
3 FA3 JUNCTION BOX MOUNTING DETAIL
NOT TO SCALE



NOTES:

1. ALL OPEN FIRE ALARM CABLING SHALL BE CONCEALED FROM PUBLIC VIEW.

4 FA3 OPEN FIRE ALARM CABLING DETAIL
NOT TO SCALE



NOTES:

1. COORDINATE EXACT MOUNTING HEIGHT OF CONTROL PANEL, DOCUMENTATION CABINET AND FIRE ALARM ANNUNCIATOR, WITH THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.
2. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED SMOKE DETECTORS ON THE BOTTOM OF DECK (NOT ON BOTTOM OF STRUCTURAL MEMBERS), AND AS INDICATED IN NFPA 72.
3. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES FLUSH WITH THE SUSPENDED CEILING, ALIGNED WITH LIGHTING, SPRINKLERS, AND OTHER ARCHITECTURAL FIXTURES, WITH CLEAR LINE OF SITE IN ALL DIRECTIONS.
4. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED NOTIFICATION APPLIANCES ON BOTTOM OF BEAMS OR JOISTS, WITH CLEAR LINE OF SITE IN ALL DIRECTIONS AND AS INDICATED IN NFPA 72.
5. MEASURED TO THE OPERABLE PART OF THE PULL STATION.
6. WHERE INDICATED ON THE DRAWINGS - LOCATE CEILING MOUNTED SMOKE DETECTORS FLUSH WITH THE SUSPENDED CEILING, AND AS INDICATED IN NFPA 72.
7. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT OF THE REMOTE TEST STATIONS / ANNUNCIATORS WITH THE OWNER'S REPRESENTATIVE, ELECTRICAL CONTRACTOR, AND AHJ PRIOR TO INSTALLATION.

5 FA3 TYPICAL MOUNTING HEIGHT DETAIL
NOT TO SCALE

Order Plans @ WWW.LDILine.com

FIRE PROTECTION ENGINEER OF RECORD:
DAVID J. BURKHART, PE
LICENSE NO. 49796
CODE CONSULTANTS, INC.
2043 WOODLAND PKWY., SUITE 300
ST. LOUIS, MO 631 46-4235
PHONE: 314-991-2633
CORPORATE CERTIFICATE OF AUTHORITY NO. 7588

The item has been electronically signed and sealed by David J. Burkhart, PE on 06/06/2019 using a digital signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

CLARK | GEER | LATHAM
AND ASSOCIATES, INC.
3001 SPRING HILL AVENUE | MOBILE, AL 36608 | 251.344.7078

CODE CONSULTANTS, INC.
2043 WOODLAND PKWY., SUITE 300
ST. LOUIS, MISSOURI 63146-4235
314-991-2633
www.codeconsultants.com

DOLLAR TREE
OCOEE, FLORIDA

REV	DATE	BY	DESCRIPTION

REVISION LOG

PROJECT NUMBER:	19109-44
DRAWN BY:	DJS
CHECKED BY:	JBS
ISSUE DATE:	06/04/2019
DESCRIPTION	

SHEET TITLE:
FIRE ALARM
PANEL DIAGRAM

SHEET NUMBER:
FA-1.2

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