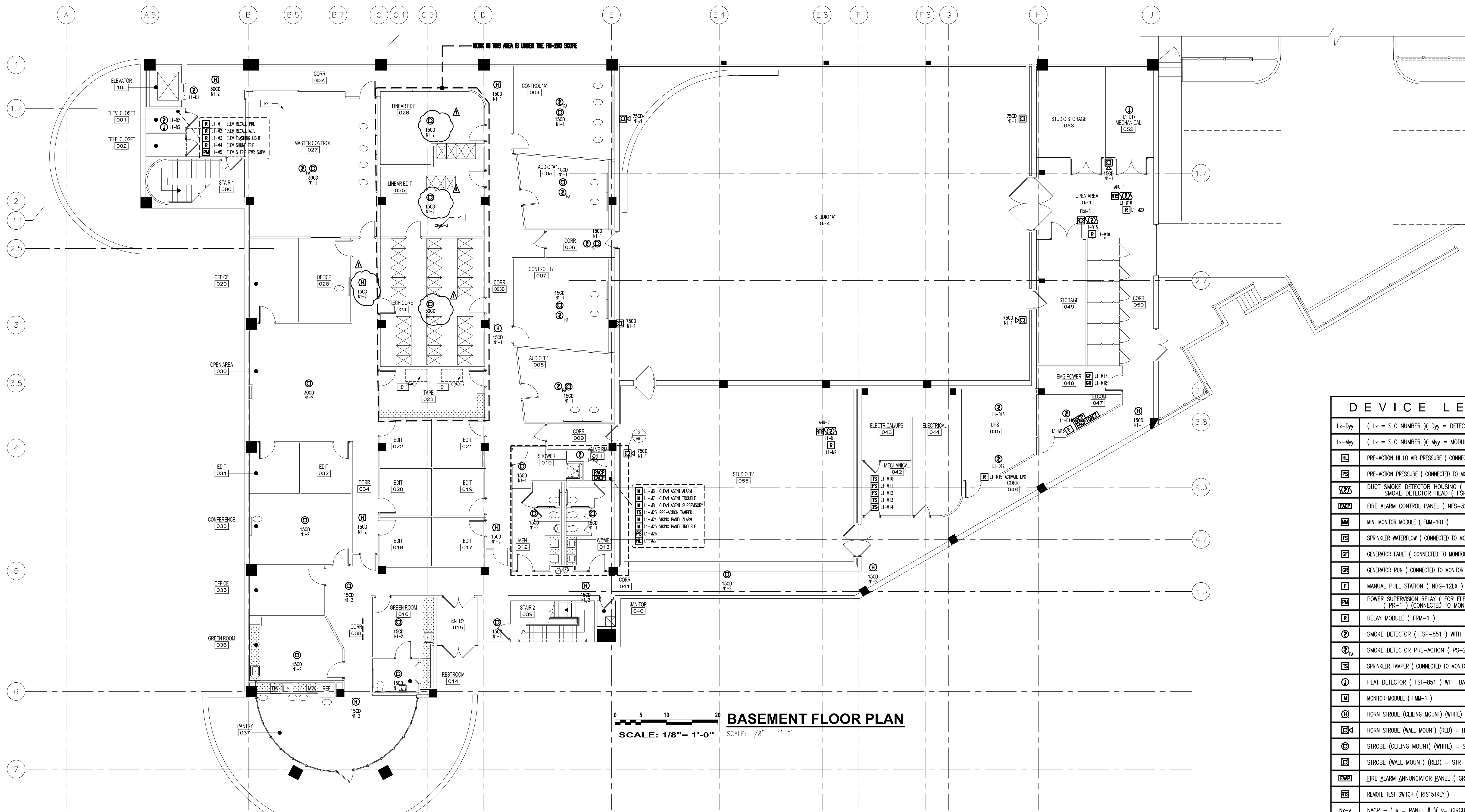


Attachment FA-16





BASEMENT FLOOR PLAN
 SCALE: 1/8" = 1'-0" SCALE: 1/8" = 1'-0"

DEVICE LEGEND	
Lx-Dyy	(Lx = SLC NUMBER) (Dyy = DETECTOR ADDRESS)
Lx-Myy	(Lx = SLC NUMBER) (Myy = MODULE ADDRESS)
LA	PRE-ACTION HI LO AIR PRESSURE (CONNECTED TO MONITOR MODULE)
PS	PRE-ACTION PRESSURE (CONNECTED TO MONITOR MODULE)
SD	DUCT SMOKE DETECTOR HOUSING (DNR) WITH SMOKE DETECTOR HEAD (FSP-851-R)
ELCP	FIRE ALARM CONTROL PANEL (NFS-320)
MM	MINI MONITOR MODULE (FM-101)
SW	SPRINKLER WATERFLOW (CONNECTED TO MONITOR MODULE FM-1)
GF	GENERATOR FAULT (CONNECTED TO MONITOR MODULE FM-1)
GR	GENERATOR RUN (CONNECTED TO MONITOR MODULE FM-1)
F	MANUAL PULL STATION (NBG-12LX)
PSR	POWER SUPERVISION RELAY (FOR ELEVATOR SHUNT TRIP POWER) (PR-1) (CONNECTED TO MONITOR MODULE FM-1)
R	RELAY MODULE (FRM-1)
SD	SMOKE DETECTOR (FSP-851) WITH BASE (B210LP)
SDA	SMOKE DETECTOR PRE-ACTION (PS-24) WITH BASE (SB-46)
ST	SPRINKLER TAMPER (CONNECTED TO MONITOR MODULE FM-1)
HD	HEAT DETECTOR (FST-851) WITH BASE (B210LP)
M	MONITOR MODULE (FM-1)
HS	HORN STROBE (CEILING MOUNT) (WHITE) = HSWC
HSR	HORN STROBE (WALL MOUNT) (RED) = HSR
STW	STROBE (CEILING MOUNT) (WHITE) = STWC
STR	STROBE (WALL MOUNT) (RED) = STR
ELAP	FIRE ALARM ANNUNCIATOR PANEL (GRAPHIC)
RTS	REMOTE TEST SWITCH (RTS151KEY)
Nx-y	NAACP - (x = PANEL #) (y = CIRCUIT #) AUDIO VISUAL CIRCUIT
APCP	NOTIFICATION APPLIANCE CONTROL PANEL (PCM-1)
CACP	CLEAN AGENT CONTROL PANEL (PROVIDED BY OTHERS)
PAACP	PRE-ACTION CONTROL PANEL (PROVIDED BY OTHERS)
SD	SAMPLE OF STROBE

FIRE ALARM NOTE:
 THE FLOOR PLAN LAYOUT SHOWN IS BASED UPON CONTRACT DRAWINGS DESIGNED BY OTHERS. THEREFORE, BFPE INTERNATIONAL IS NOT RESPONSIBLE FOR ANY DESIGN DEFICIENCIES.

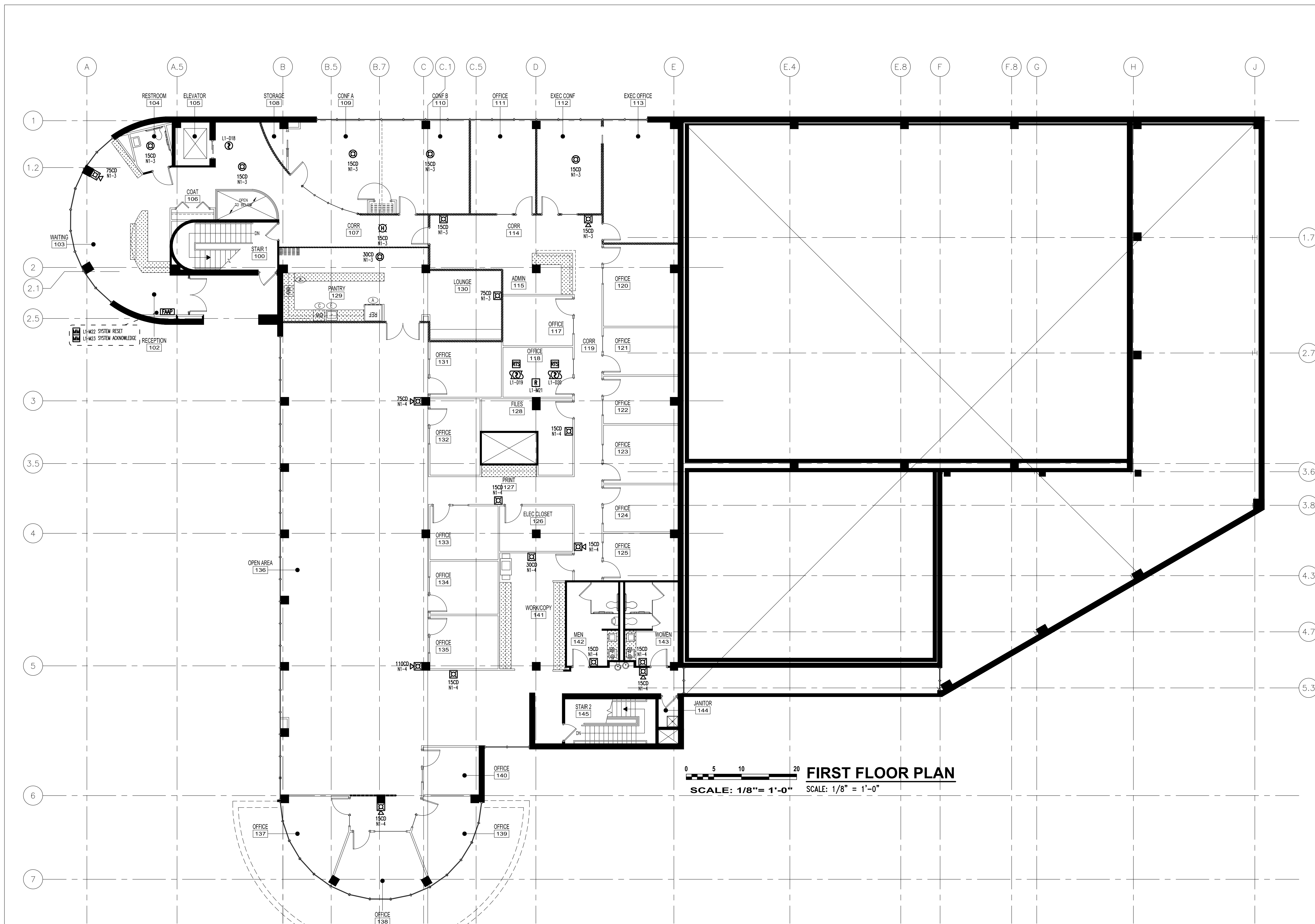
NICET
 THIS FIRE ALARM SHOP DRAWING WAS PREPARED FOR EQUIPMENT APPLICATIONS ONLY. THE INFORMATION CONTAINED HEREIN IS INTENDED TO AID IN THE INSTALLATION OF THIS SYSTEM. NO DESIGN CHANGES HAVE BEEN MADE TO THE ENGINEER OF RECORD'S CONTRACT DRAWINGS.
 CHARLES McDERMOTT - LEVEL III FIRE ALARM SYSTEMS CERTIFICATION #105699
 XX: _____ DATE: 07-12-2013

FIRE ALARM SYSTEM BASEMENT FLOOR PLAN

Office of Cable TV
 1899 9th Street N.E
 Washington, DC 20018

BFPE INTERNATIONAL
 FIRE SAFETY & SECURITY
 7512 CONNELLEY DRIVE
 HANOVER, MARYLAND 21076
 (410)768-2200

DRAWN BY: SM			
LAYOUT: EOR			
CHECKED BY: SP	1	REVISED JVP ENGINEERS REVIEW COMMENTS 7-17-13	SM 8/16/13
SCALE: AS NOTED	MARK	REVISION	BY DATE
DATE: 07-06-13	SHEET NO. 1 OF 5	DRAWING NO. T-14957-A-13	



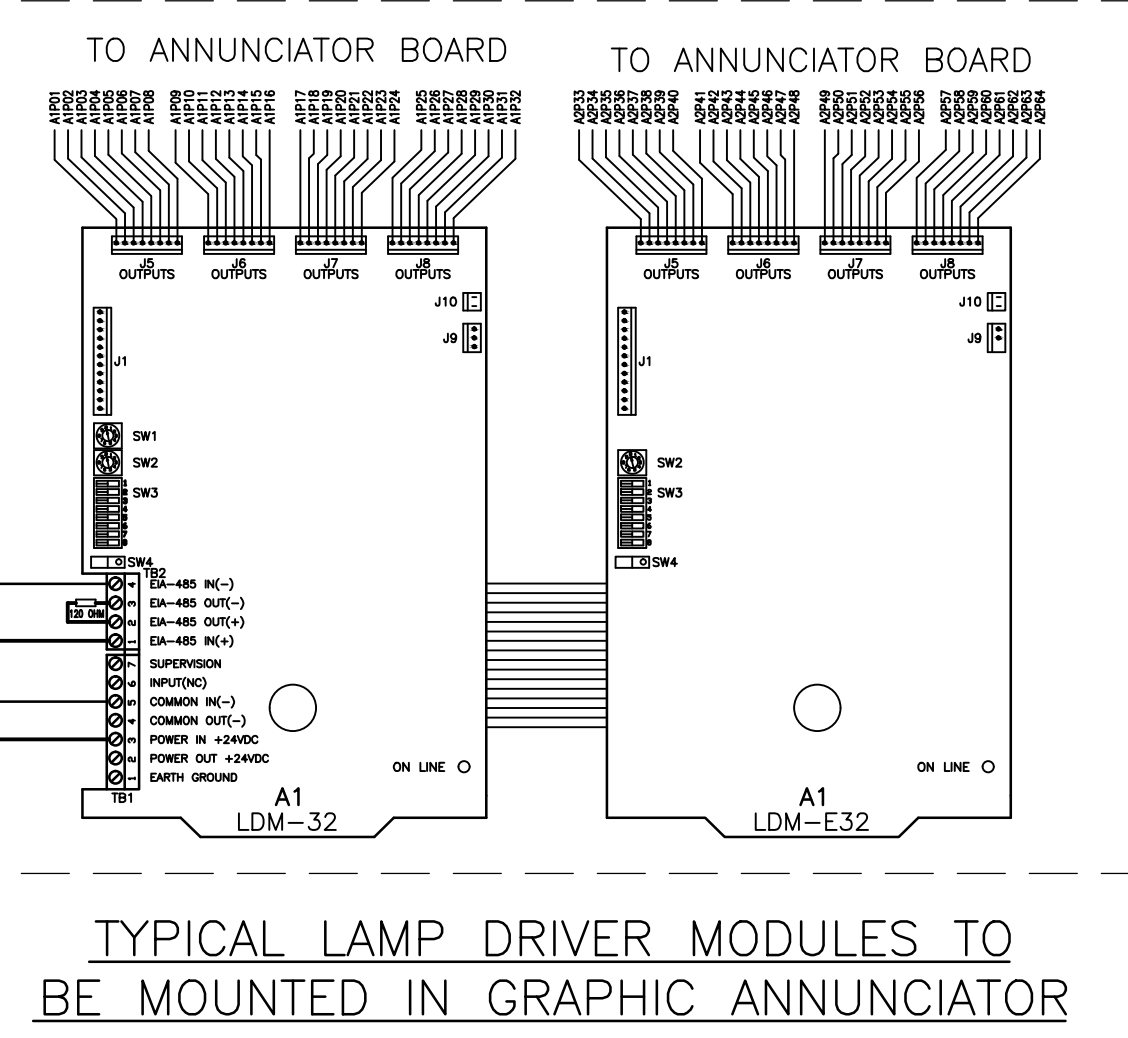
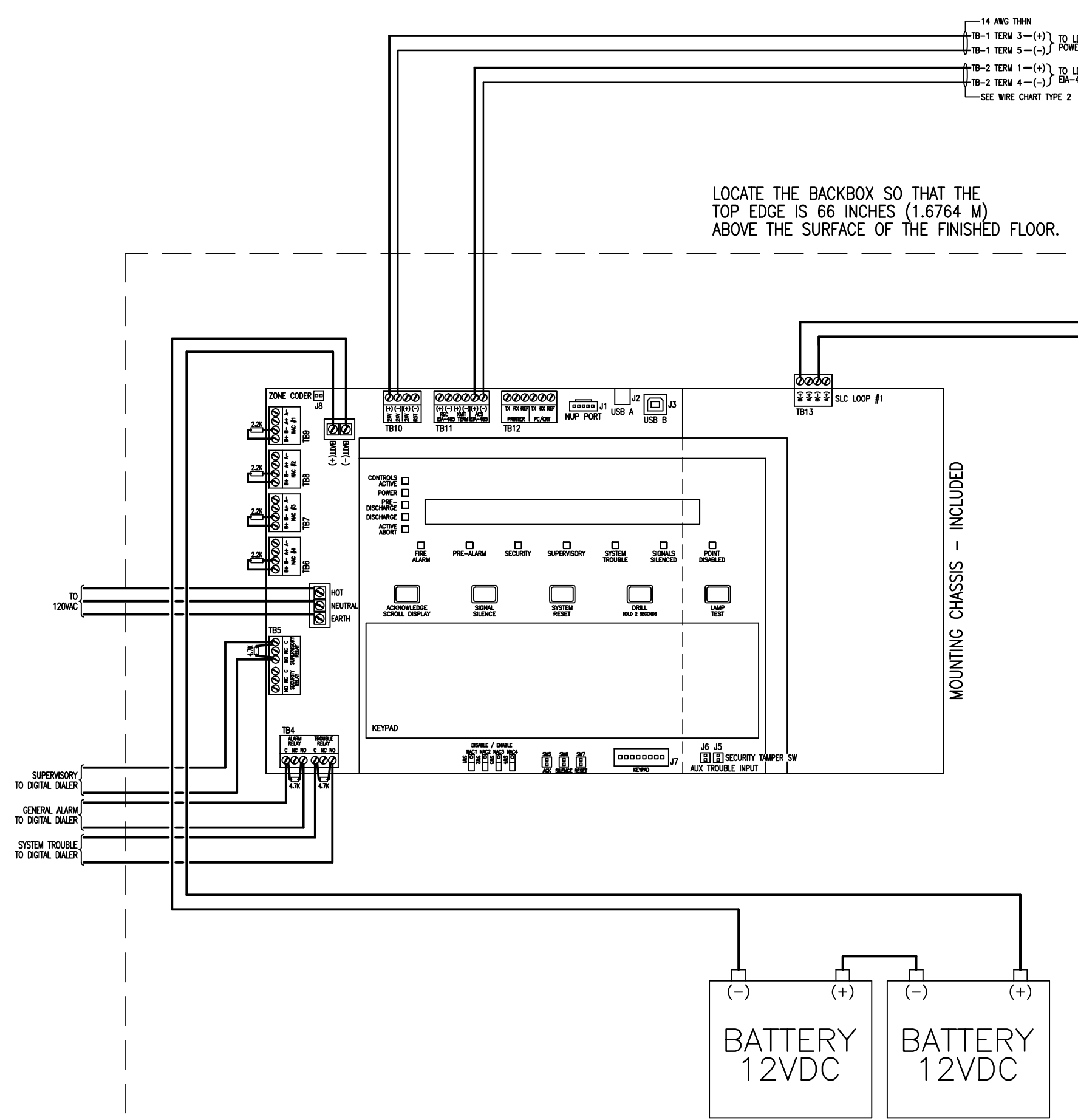
DEVICE LEGEND	
Lx-Dyy	(Lx = SLC NUMBER)(Dyy = DETECTOR ADDRESS)
Lx-Myy	(Lx = SLC NUMBER)(Myy = MODULE ADDRESS)
PA	PRE-ACTION HI LO AIR PRESSURE (CONNECTED TO MONITOR MODULE)
PS	PRE-ACTION PRESSURE (CONNECTED TO MONITOR MODULE)
SD	DUCT SMOKE DETECTOR HOUSING (DNR) WITH SMOKE DETECTOR HEAD (FSP-851-R)
FCP	FIRE ALARM CONTROL PANEL (NFS-320)
MM	MINI MONITOR MODULE (FM-101)
SW	SPRINKLER WATERFLOW (CONNECTED TO MONITOR MODULE FM-1)
GF	GENERATOR FAULT (CONNECTED TO MONITOR MODULE FM-1)
GR	GENERATOR RUN (CONNECTED TO MONITOR MODULE FM-1)
F	MANUAL PULL STATION (NBC-12LX)
PR	POWER SUPERVISION RELAY (FOR ELEVATOR SHUNT TRIP POWER) (PR-1) (CONNECTED TO MONITOR MODULE FM-1)
R	RELAY MODULE (FRM-1)
SD	SMOKE DETECTOR (FSP-851) WITH BASE (B210LP)
SDA	SMOKE DETECTOR PRE-ACTION (PS-24) WITH BASE (SB-46)
TS	SPRINKLER TAMPER (CONNECTED TO MONITOR MODULE FM-1)
H	HEAT DETECTOR (FST-851) WITH BASE (B210LP)
M	MONITOR MODULE (FM-1)
HSWC	HORN STROBE (CEILING MOUNT) (WHITE) = HSWC
HSR	HORN STROBE (WALL MOUNT) (RED) = HSR
STWC	STROBE (CEILING MOUNT) (WHITE) = STWC
STR	STROBE (WALL MOUNT) (RED) = STR
FCP	FIRE ALARM ANNUNCIATOR PANEL (GRAPHIC)
RIS	REMOTE TEST SWITCH (RIS151KEY)
Nx-y	NACP - (x = PANEL #)(y = CIRCUIT #) AUDIO VISUAL CIRCUIT
FCP	NOTIFICATION APPLIANCE CONTROL PANEL (FM-1)
FCP	CLEAN AGENT CONTROL PANEL (PROVIDED BY OTHERS)
FCP	PRE-ACTION CONTROL PANEL (PROVIDED BY OTHERS)
XX	LOCATION OF STROBE

FIRE ALARM NOTE:
 THE FLOOR PLAN LAYOUT SHOWN IS BASED UPON CONTRACT DRAWINGS DESIGNED BY OTHERS. THEREFORE, BFPE INTERNATIONAL IS NOT RESPONSIBLE FOR ANY DESIGN DEFICIENCIES.

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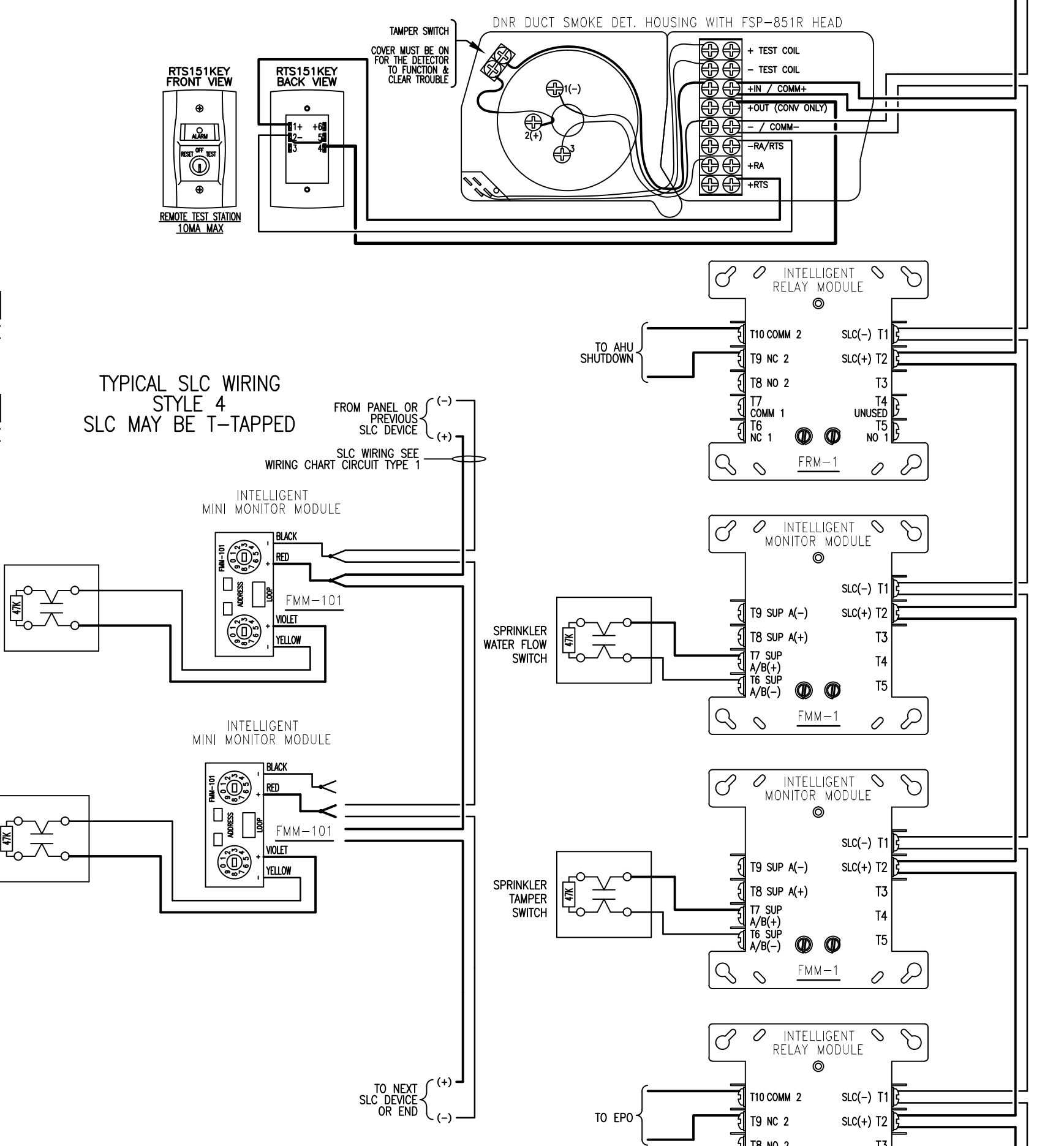
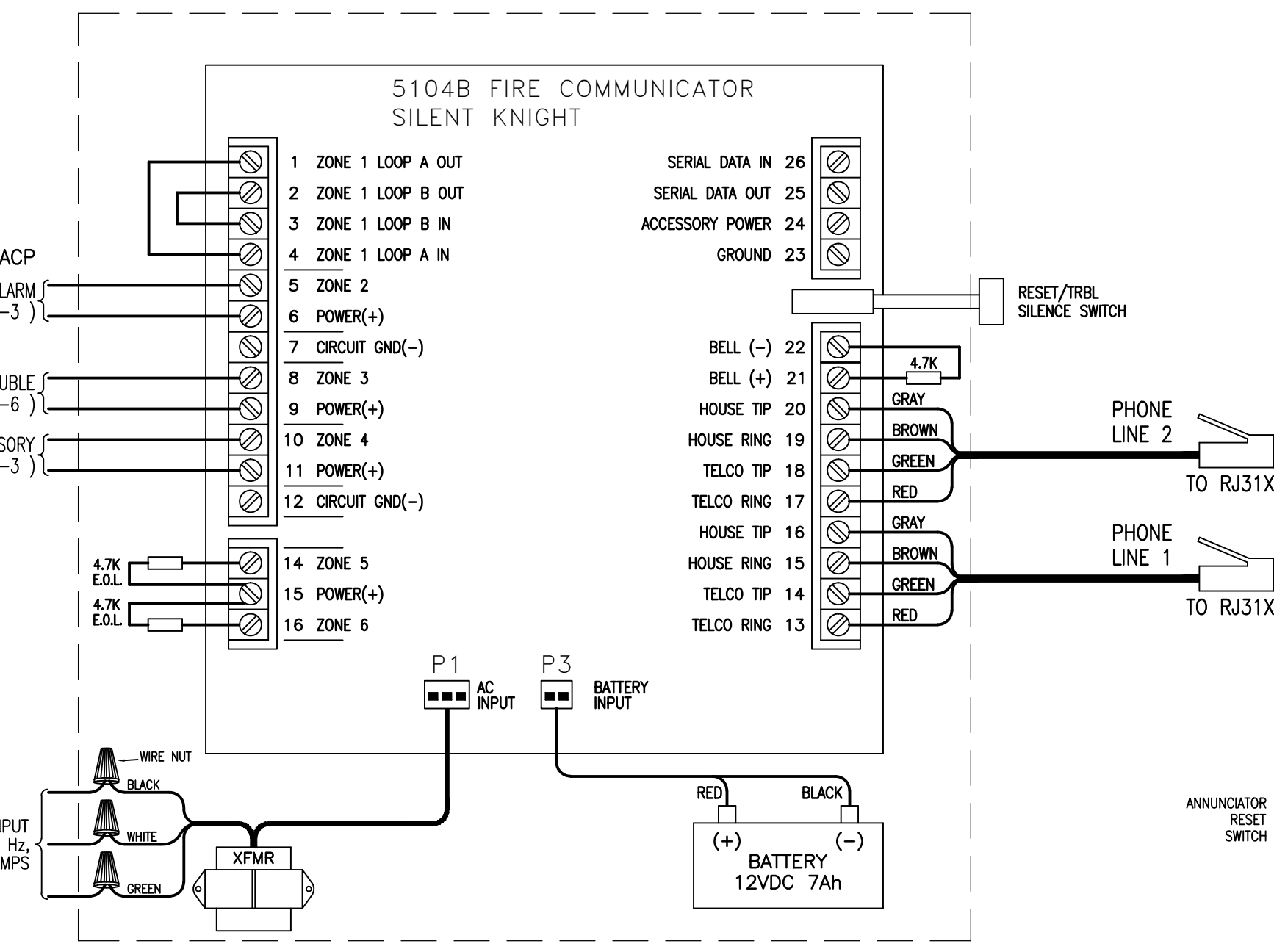
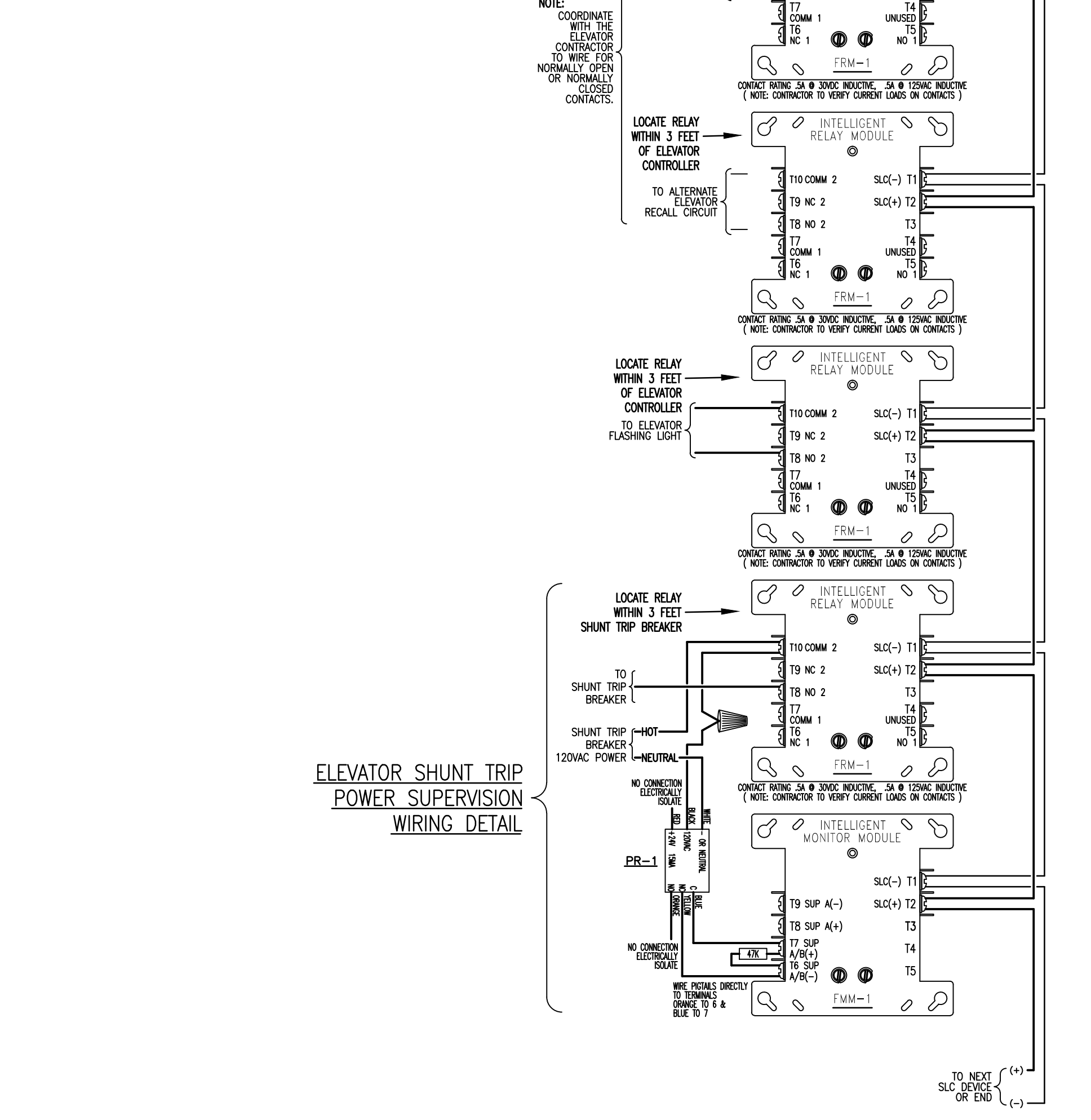
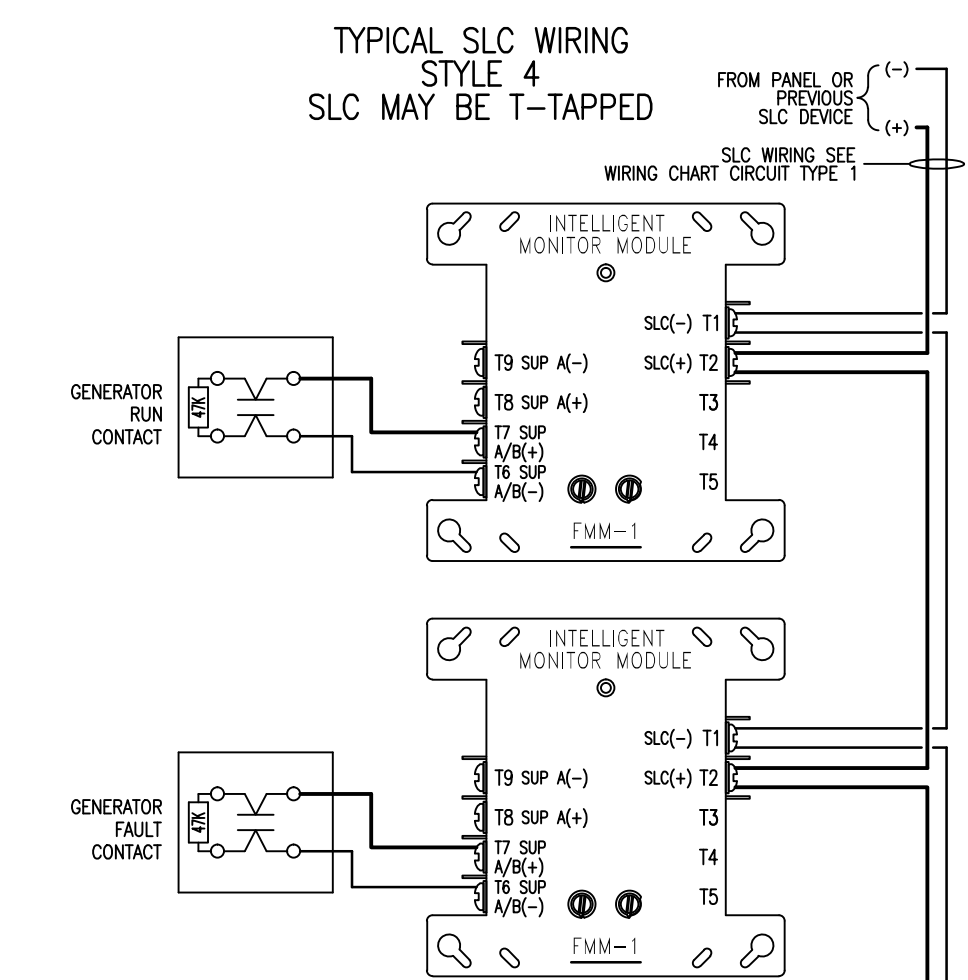
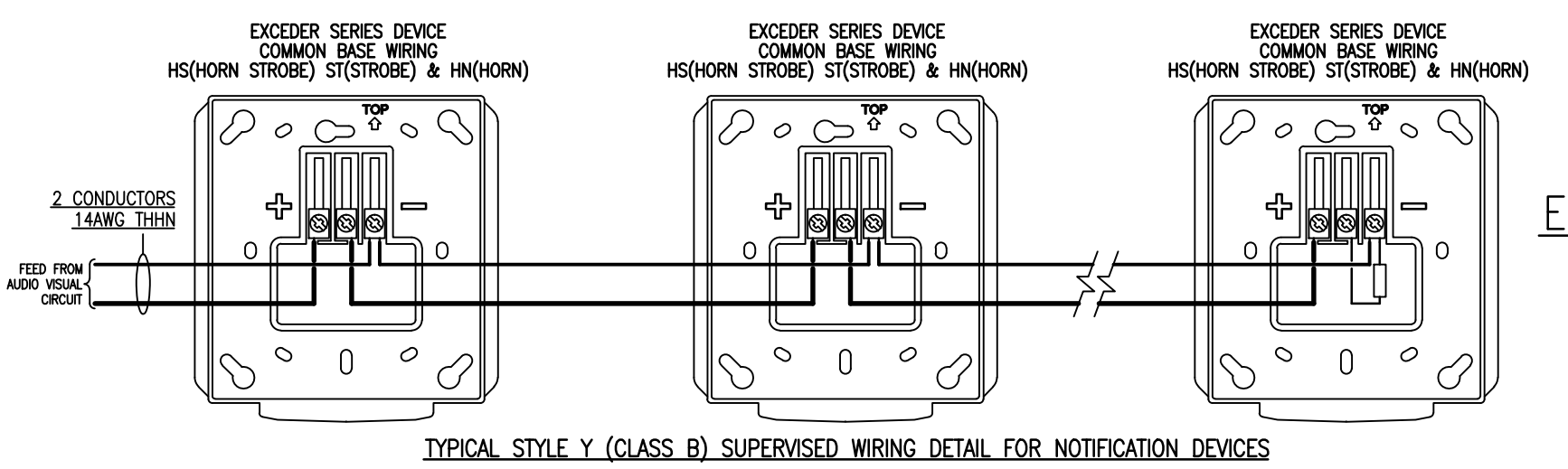
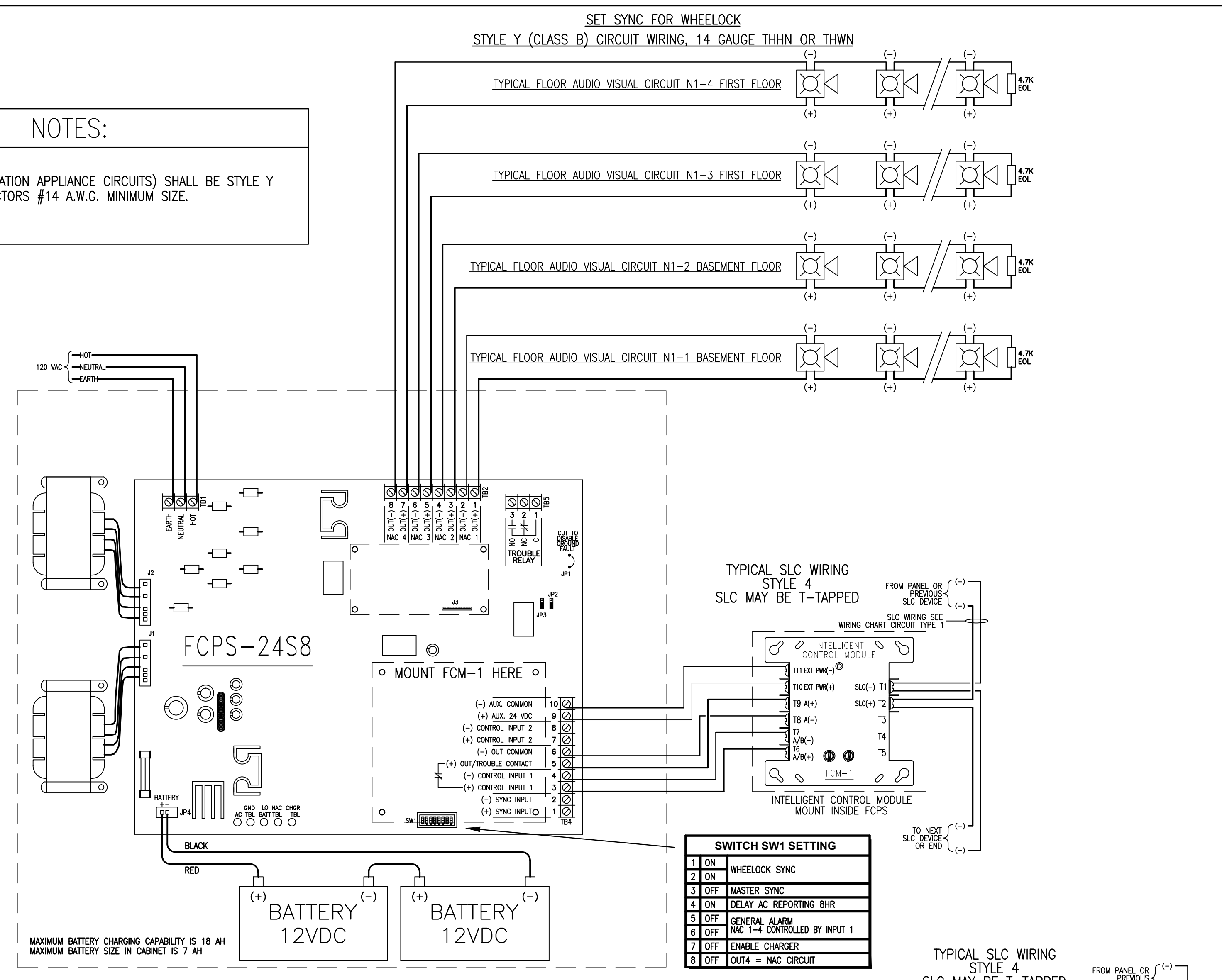
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 CHARLES MCDERMOTT - LEVEL III FIRE ALARM SYSTEMS CERTIFICATION #105699
 XX: _____ DATE: 07-12-2013

FIRE ALARM SYSTEM BASEMENT FLOOR PLAN		BFPE INTERNATIONAL FIRE, SAFETY & SECURITY 7512 CONNELLEY DRIVE HANOVER, MARYLAND 21076 (410)786-2200	
Office of Cable TV			
1899 9th Street N.E. Washington, DC 20018			
DRAWN BY: SM			
LAYOUT: EOR			
CHECKED BY: SP	1	REVISED /VP ENGINEERS REVIEW COMMENTS 7-17-13	SM 8/16/13
SCALE: AS NOTED	MARK	REVISION	BY DATE
DATE: 07-06-13	SHEET NO. 2 OF 5	DRAWING NO. T-14957-A-13	



CIRCUIT TYPE	CIRCUIT FUNCTION	DISTANCE FT.	TYPICAL WIRE TYPE
1. SLC LOOP (POWER LIMITED)	TWISTED, SHIELDED WIRE IN OR OUT OF CONDUIT FOR STYLE 4 LOOPS, MAX LOOP RESISTANCE 40 OHM	10,000 8,000 4,875	12 AWG BELDEN 9583 WFW 999 14 AWG BELDEN 9081 WFW 995 16 AWG BELDEN 9575 WFW 991
2. DA-485/232 WIRING (ANNUNCIATOR, PRINTER & REMOTE DISPLAYS TWISTED, SHIELDED WIRE)		4,000	16 AWG SOLID THHN
3. FMM-1, FRM	INITIATING DEVICE	TO MEET 20 OHMS	14 AWG SOLID THHN 16 AWG SOLID THHN
4. FCM-1 (POWER LIMITED)	INDICATING APPLIANCE FUNCTION CONTROL	500 N/A	14 AWG SOLID THHN 16 AWG SOLID THHN
5. 24VDC POWER RUN (POWER LIMITED)	SYSTEM DEVICE POWER	500 N/A	14 AWG SOLID THHN 16 AWG SOLID THHN
6. NAC CIRCUITS	SYSTEM DEVICE POWER	SEE VOLTAGE DROP CALCUS	14 AWG SOLID THHN MINIMUM

NOTES:
1.) STROBE NAC (NOTIFICATION APPLIANCE CIRCUITS) SHALL BE STYLE Y TWO COPPER CONDUCTORS #14 A.W.G. MINIMUM SIZE.

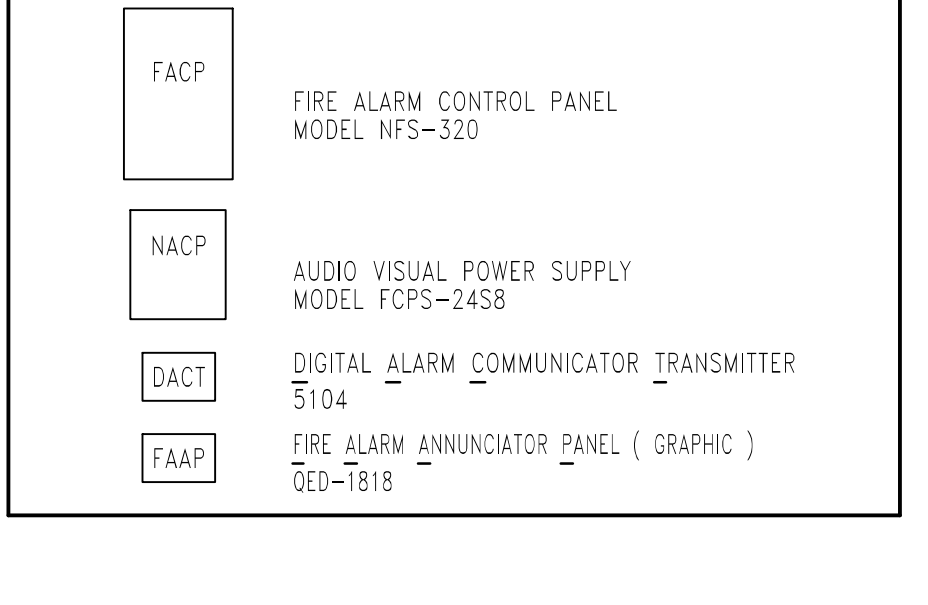
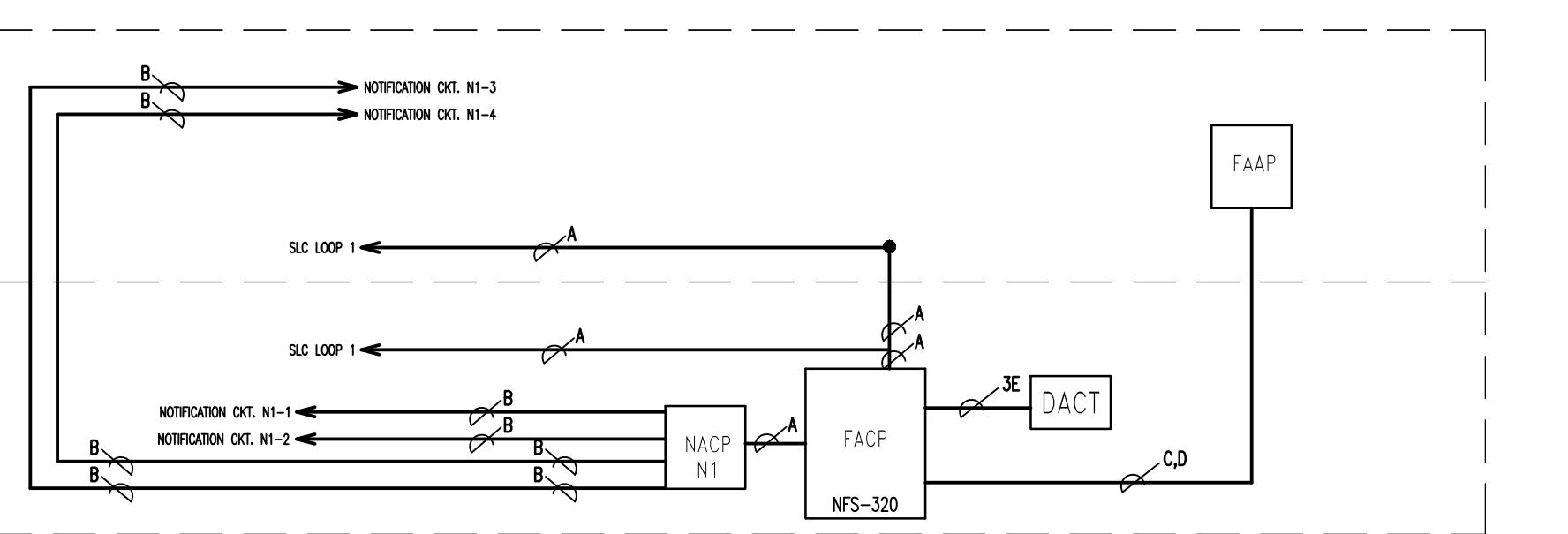


NOTE: A NUMBER PRECEDING THE WIRE LETTER INDICATES MULTIPLE WIRE SETS.

A = SLC LOOP - SEE CIRCUIT CHART - TYPE #1
B = AUDIO/VISUAL NOTIFICATION CIRCUIT - 2 CONDUCTOR/14 AWG SOLID MINIMUM
C = 24VDC POWER - 2 CONDUCTOR/14 AWG MINIMUM
D = ANNUNCIATOR DATA - 2 CONDUCTOR/16 AWG - SEE CIRCUIT CHART -TYPE #2
E = DACT COMMUNICATION - 2 CONDUCTOR/16 AWG MINIMUM

FIRE ALARM SYSTEM RISER

LEGEND



NICET

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CHARLES MCDERMOTT - LEVEL III FIRE ALARM SYSTEMS
CERTIFICATION #105699

DATE: 07-12-2013

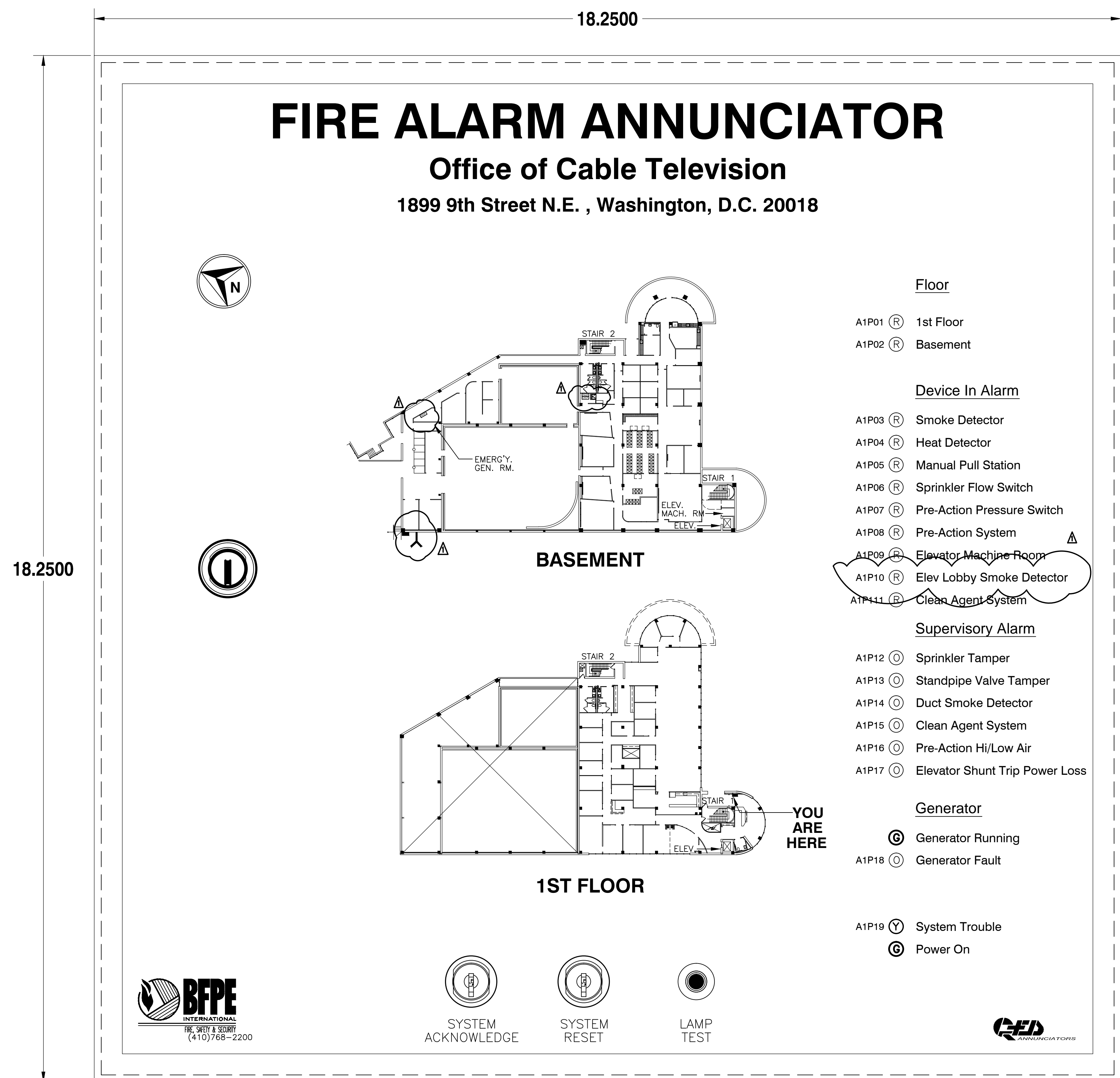
FIRE ALARM SYSTEM DETAILS

Office of Cable TV

1899 9th Street N.E
Washington, DC 20018

BFPE INTERNATIONAL
FIRE SAFETY & SECURITY
7512 CONNELLY DRIVE
HANOVER, MARYLAND 21076
(410)786-2200

DRAWN BY:	SM		
LAYOUT:	EOR		
CHECKED BY:	SP	1	REVISED AWP ENGINEERS REVIEW COMMENTS 7-17-13 SM 8/16/13
SCALE:	AS NOTED	MARK	REVISION
DATE:	07-06-13	SHEET NO. 3 OF 5	DRAWING NO. T-14957-A-13



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CHARLES McDERMOTT - LEVEL III FIRE ALARM SYSTEMS
CERTIFICATION #105699

XX: _____ DATE: 07-12-2013

FIRE ALARM SYSTEM GRAPHIC ANNUNCIATOR		BFPE INTERNATIONAL FIRE, SAFETY & SECURITY 7512 CONNELLEY DRIVE HANOVER, MARYLAND 21076 (410)768-2200	
Office of Cable TV 1899 9th Street N.E Washington, DC 20018			
DRAWN BY: SM			
LAYOUT: EOR			
CHECKED BY: SP	1	REVISED JWP ENGINEERS REVIEW COMMENTS 7-17-13	SM 8/16/13
SCALE: AS NOTED	MARK	REVISION	BY DATE
DATE: 07-06-13	SHEET NO. 5 OF 5	DRAWING NO. T-14957-A-13	