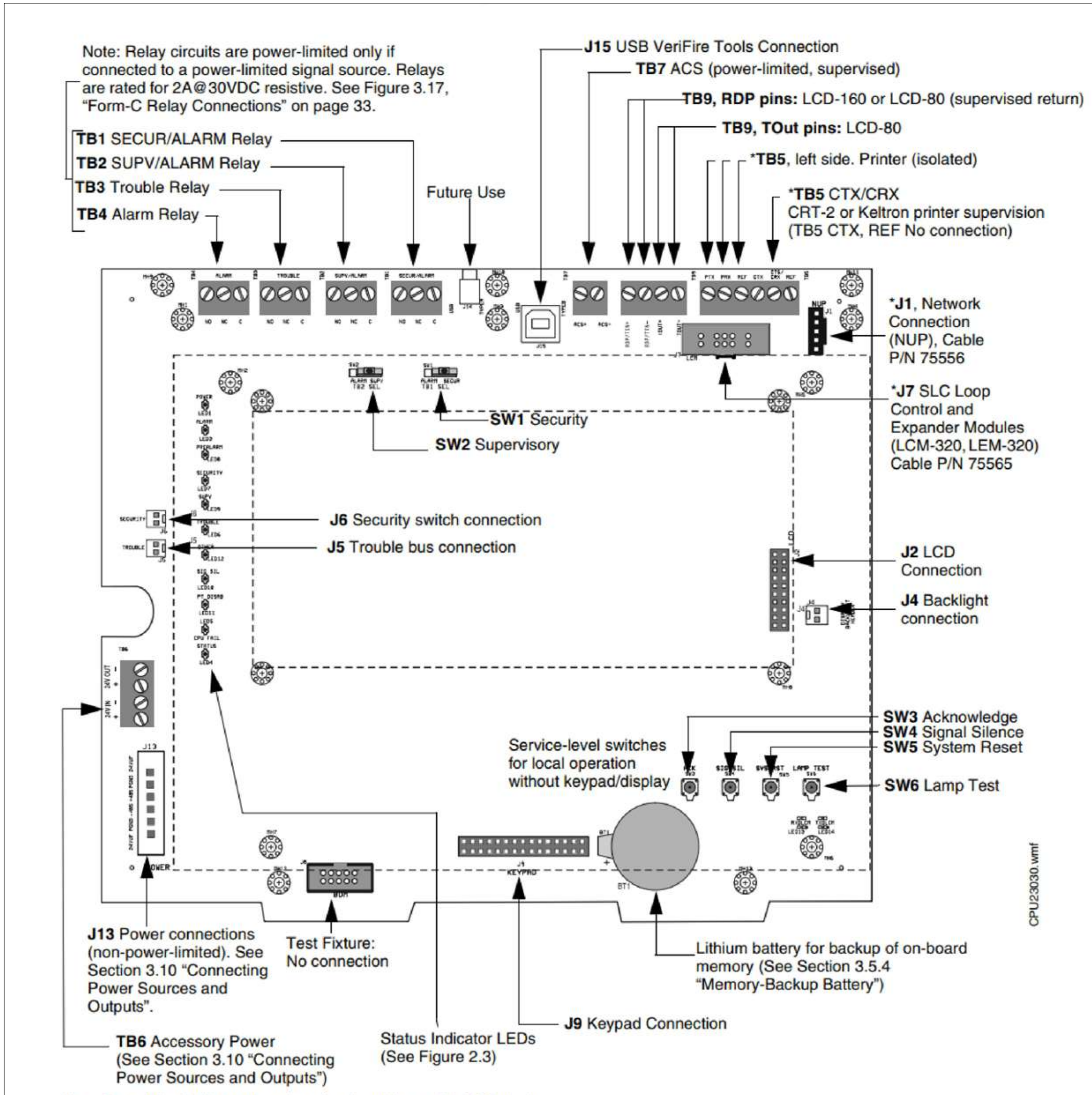
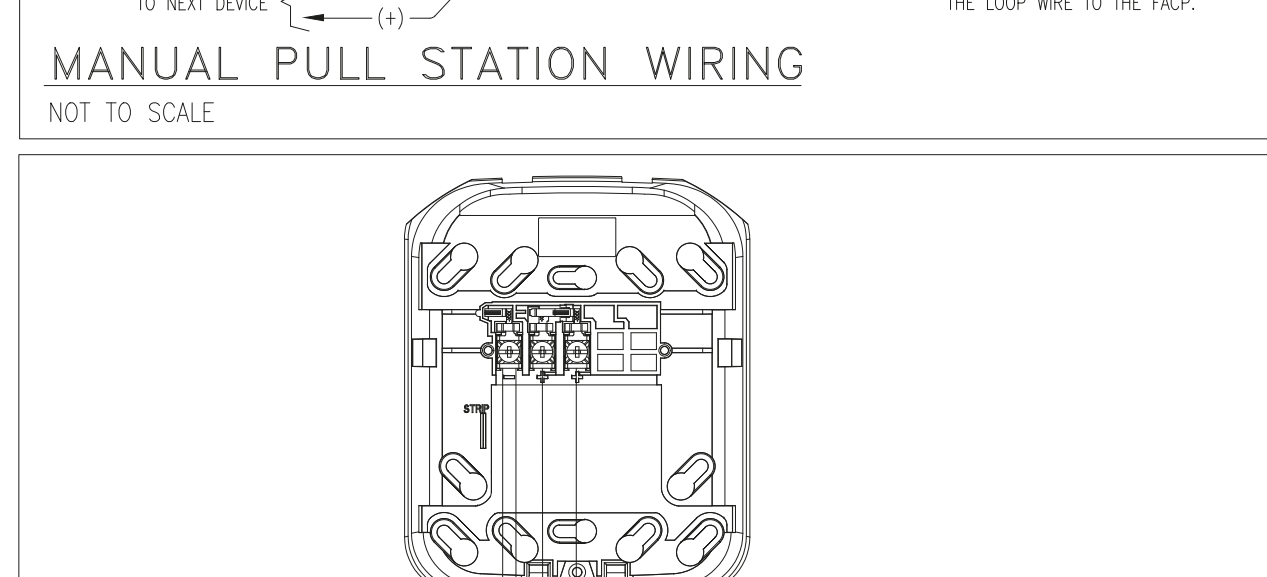
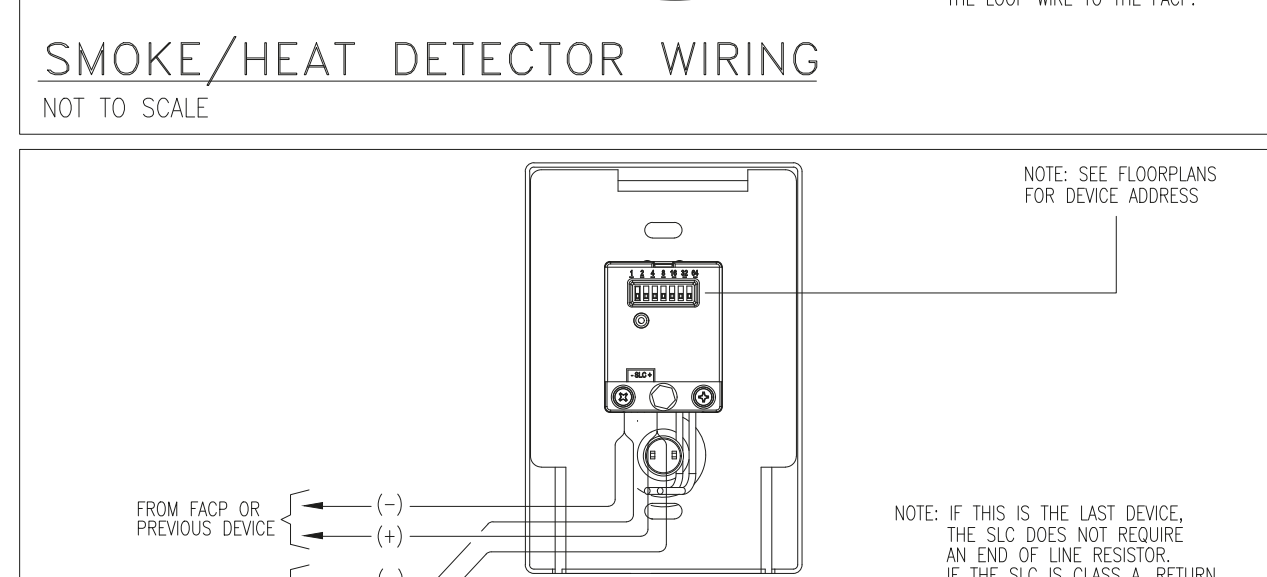
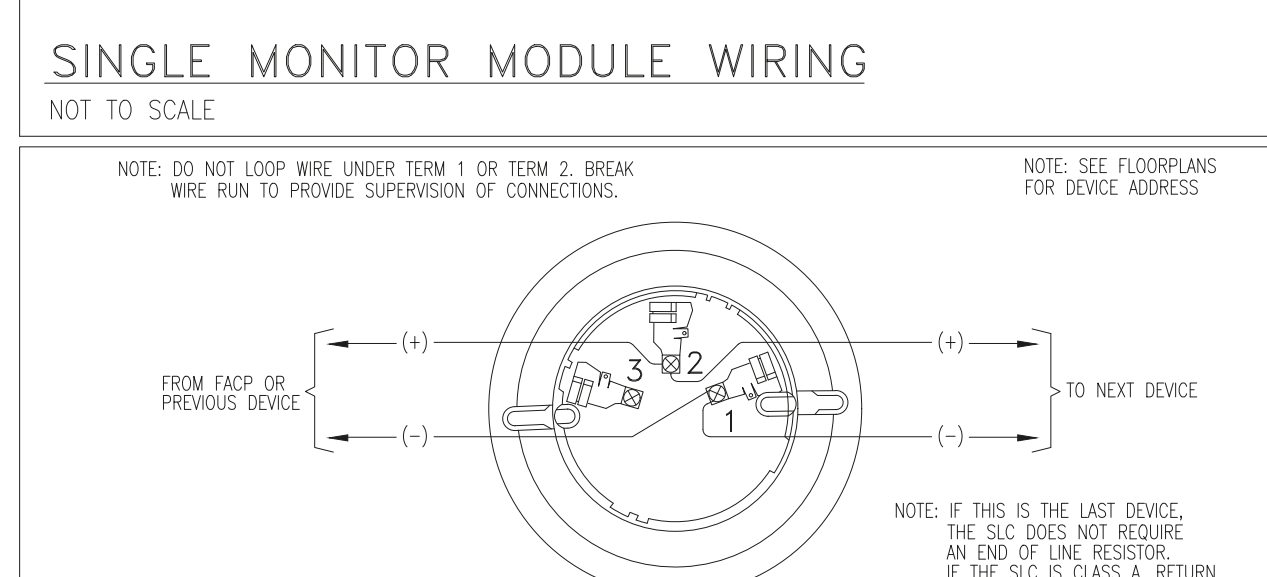
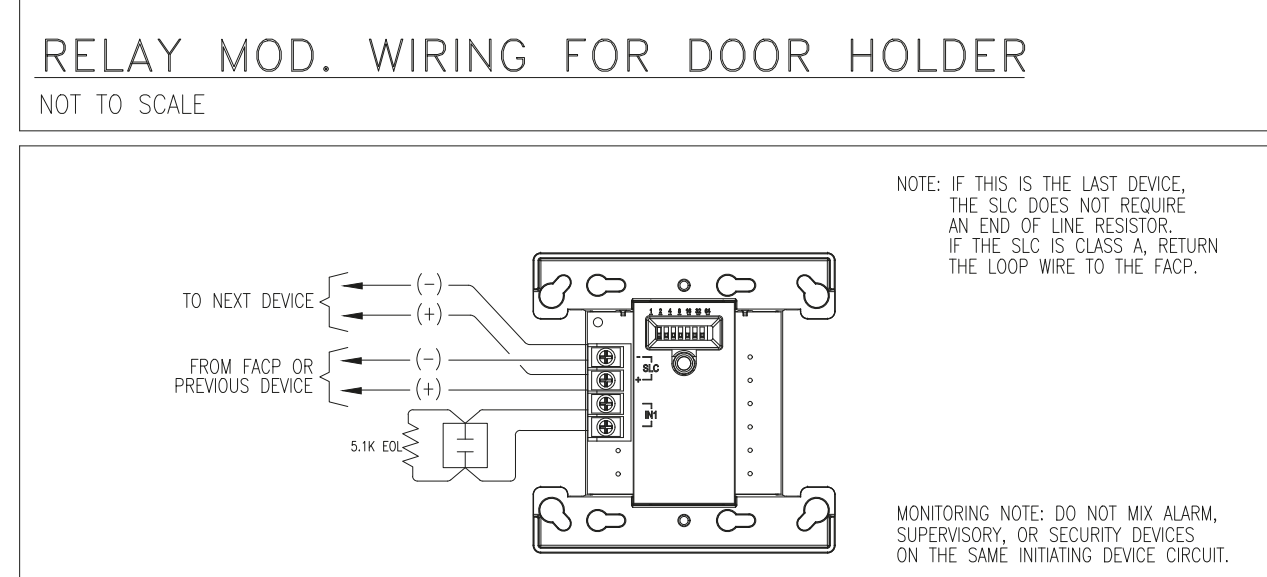
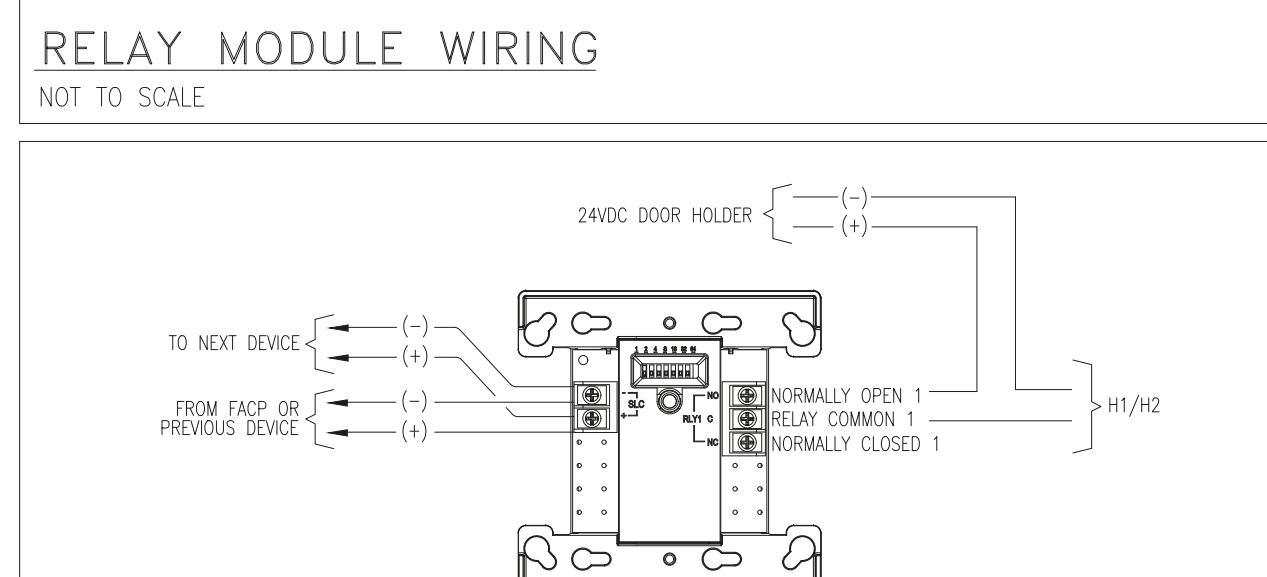
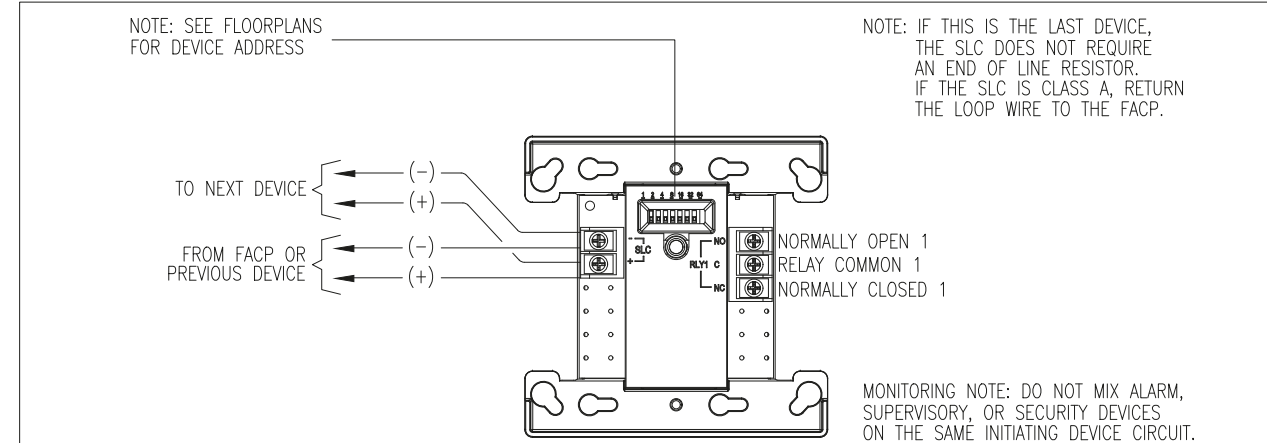
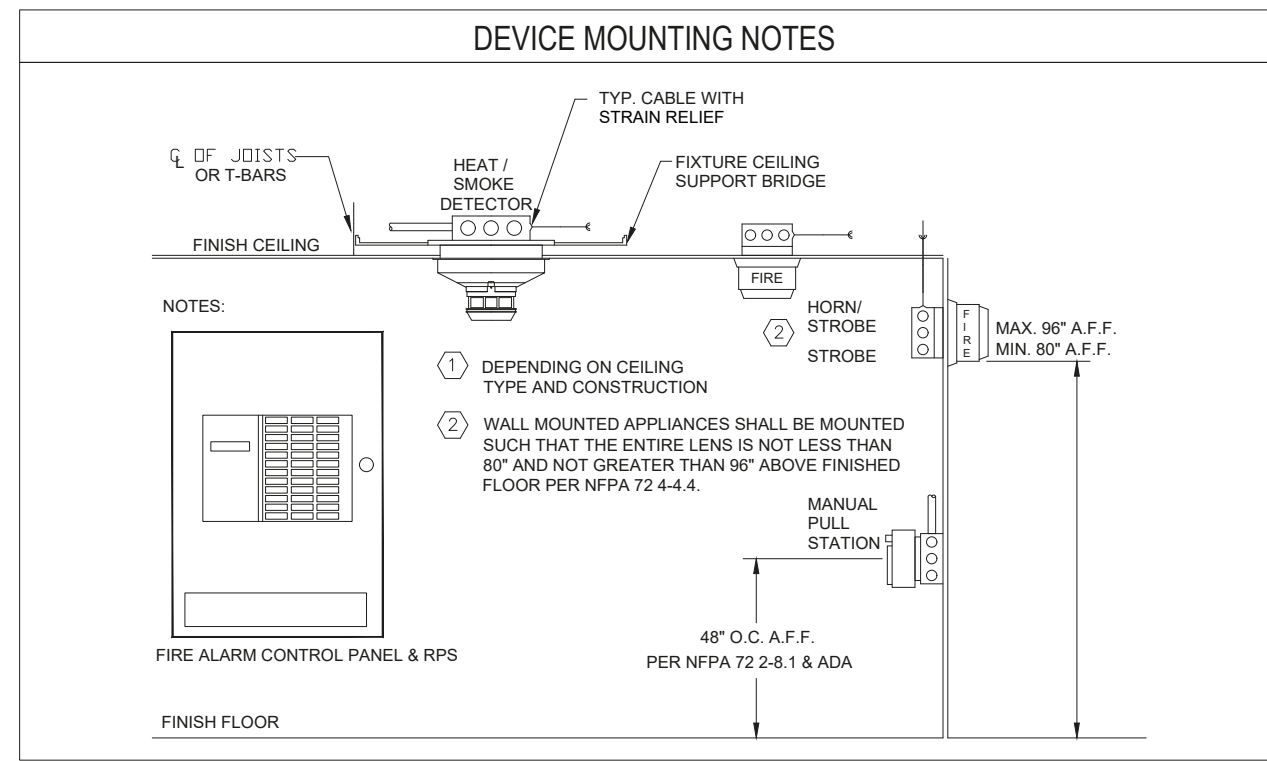
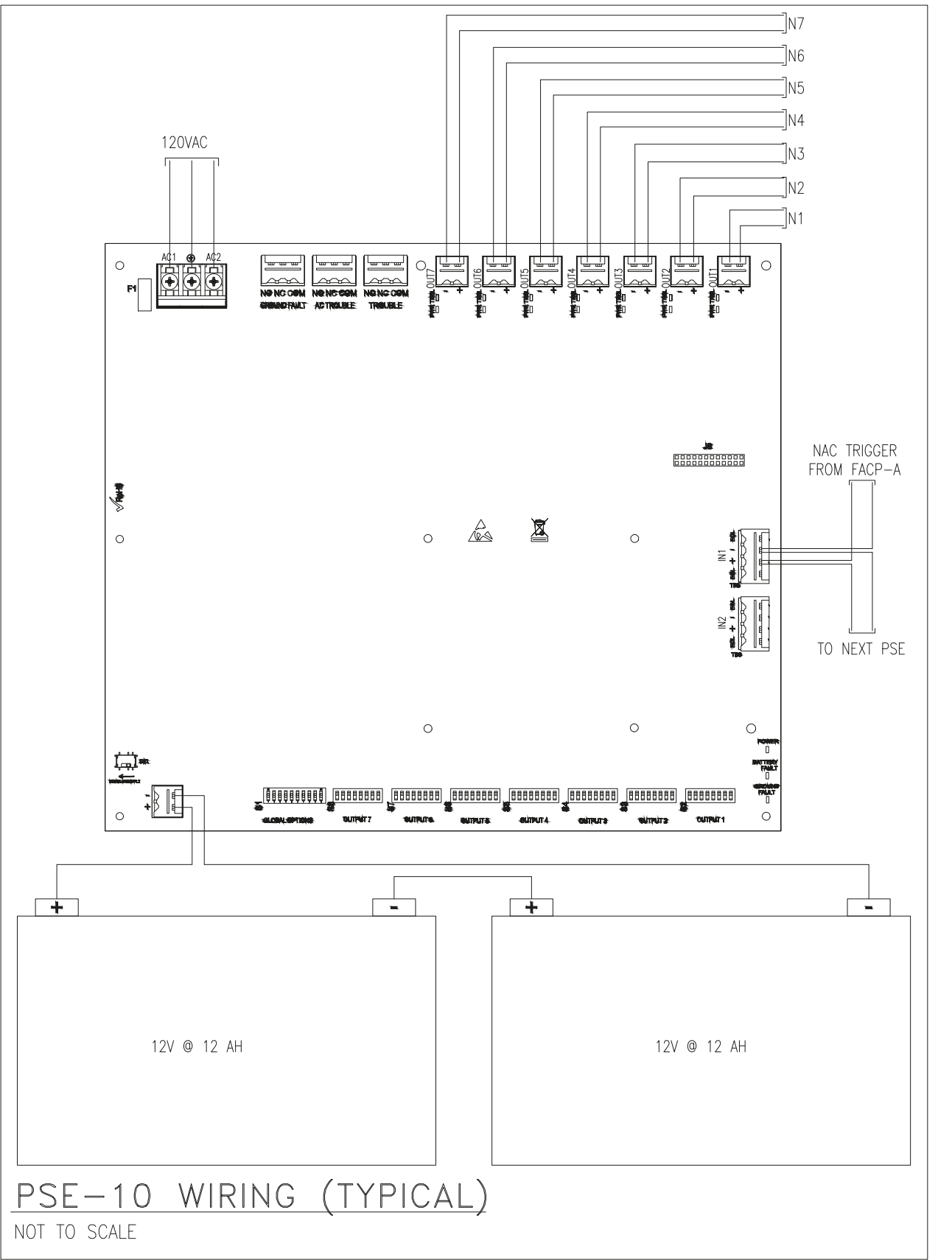
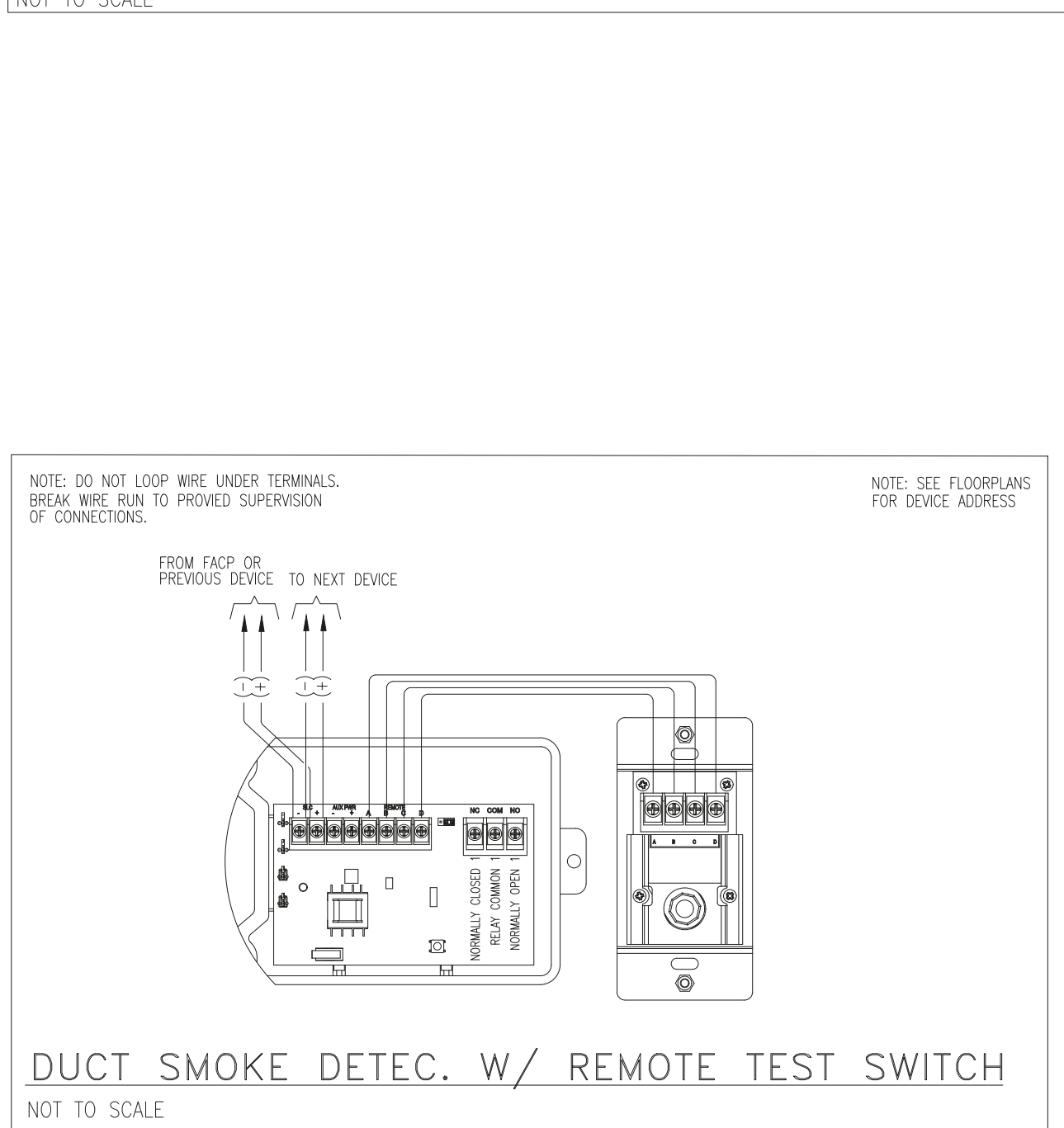
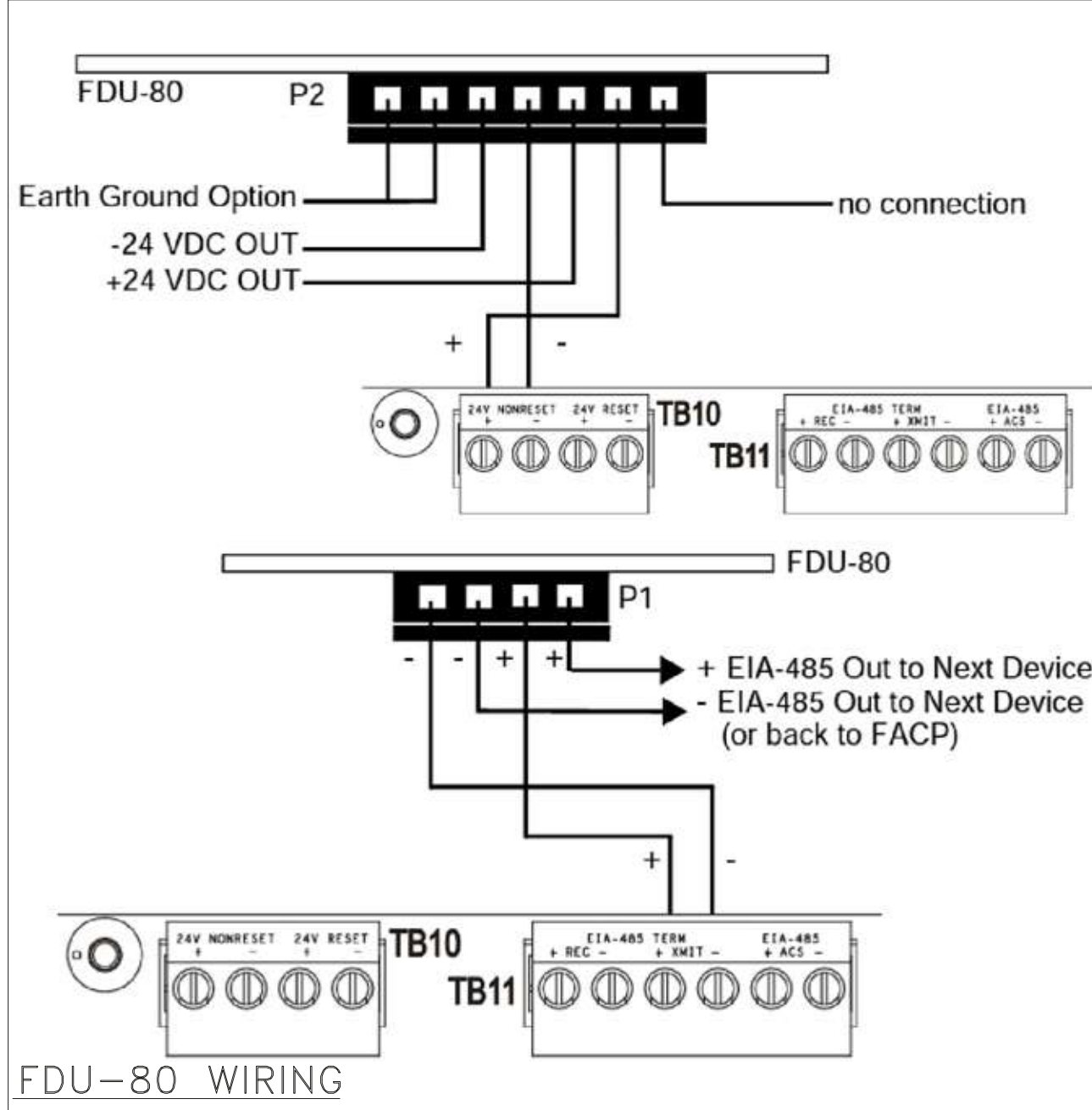


- GENERAL NOTES**
1. ALL FIRE ALARM WIRING MUST BE IN STRICT COMPLIANCE WITH APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE (ARTICLE 760) AND ALL APPLICABLE NFPA STANDARDS.
 2. INSTALLATION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL LAWS, REGULATIONS, CODES, AND SPECIFICATIONS.
 3. ALL INSTALLATION MUST BE APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 4. TO AVOID CONTAMINATION AND DUST ACCUMULATION IN THE SMOKE DETECTORS, IT IS RECOMMENDED THAT THE SMOKE DETECTORS NOT BE INSTALLED UNTIL AFTER CONSTRUCTION IS COMPLETED AND THE SUBJECT AREA HAS BEEN CLEANED. THE SUPPLIER IS NOT RESPONSIBLE FOR DUSTS ACCUMULATION IN SMOKE DETECTORS AND WILL NOT WARRANTY DEVICES THAT HAVE NOT BEEN PROPERLY MAINTAINED. WHEN DETECTORS ARE INSTALLED, PROTECTIVE COVERS SHALL BE INSTALLED OVER EACH DETECTOR AND REMOVED BY AUTHORIZED SERVICE PERSONNEL.
 5. AS INSTRUCTED IN NFPA 70, PROVIDE A SYSTEM GROUND FOR EARTH DETECTION AND LIGHTNING PROTECTION OF THE DEVICES.
 6. ALL FIRE ALARM SYSTEM WIRING SHALL BE RUN FROM SHORTS, OPENS AND GROUNDS.
 7. WHERE CONDUCTORS ARE RUN IN CONDUIT, USE ONLY APPROVED CABLE WITHIN RACEWAYS, PIPES, OR CONDUITS. ALL SHIELDED WIRE MUST BE CONTINUOUS THROUGHOUT CIRCUIT. ALL SHIELDS SHALL BE ISOLATED FROM GROUND, ALL SHIELDS SHALL TERMINATE AT THE FIRE ALARM CONTROL UNIT (FACU), ONLY.
 8. CONDUIT AND JUNCTION BOX LOCATIONS ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS MAY VARY DUE TO FIELD CONDITIONS. ACTUAL INSTALLATION LOCATIONS SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR.
 9. DO NOT LOCATE SMOKE DETECTORS WITHIN 3 FEET OF SUPPLY AIR VENTS.
 10. WIRE RUNS ARE CRITICAL. ANY SIGNIFICANT INCREASE IN LENGTH OF WIRE MAY AFFECT CIRCUIT CONFIGURATIONS.



Note: Dotted line indicates location of optional keypad & LCD display
*Circuits marked with an asterisk are supervised by communication loss. See Appendix A, "Electrical Specifications" for details.

NFS2-3030 WIRING
NOT TO SCALE



DEVICE LEGEND				
SYMBOL	QTY	MANUFACTURER	PART NO	DESCRIPTION
[Symbol]	1	NOTIFIER	NFS2-3030D (DVC)	NFS2-3030D DVC, ADDRESSABLE ASSEMBLY
[Symbol]	1	NOTIFIER	AMPS-24	ADDRESSABLE POWER SUPPLY/BATTERY CHARGER
[Symbol]	1	NOTIFIER	UDACT-2	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER-2
[Symbol]	7	POTTER	PSE-10	10A REMOTE POWER SUPPLY
[Symbol]	2	NOTIFIER	FDU-80	ANNUNCIATOR, TERMINAL MODE, 80-CHARACTER, BACKLIT LCD DISPLAY
[Symbol]	1	NOTIFIER	DVC-EM	DVC ASSEMBLY
[Symbol]	5	NOTIFIER	AMP CABINET (DAA2-5025) EQBB-4	AMPLIFIER ASSEMBLY - EQBB-84, EQDR-84, DAA2-5025, CHS-BH1
[Symbol]	26	SYSTEM SENSOR	SPSWK	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[Symbol]	70	SYSTEM SENSOR	SPSWL	SPEAKER/STROBE WALL MOUNT, WHITE
[Symbol]	24	SYSTEM SENSOR	SPSCWK	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[Symbol]	144	SYSTEM SENSOR	SPSCWL	SPEAKER/STROBE CEILING MOUNT, WHITE
[Symbol]	3	NOTIFIER	NBG-12LX	MANUAL PULL STATION, DUAL-ACTION
[Symbol]	55	NOTIFIER	FRM-1	MONITOR MODULE
[Symbol]	2	NOTIFIER	FRM-1	DUAL MONITOR MODULE
[Symbol]	60	NOTIFIER	FRM-1	RELAY MODULE
[Symbol]	12	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[Symbol]	3	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[Symbol]	15	NOTIFIER	FST-951 WB300-6	LOW-PROFILE 135°F FIXED THERMAL SENSOR
[Symbol]	78	NOTIFIER	FSP-951 WB300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR

CABLE AND WIRE LEGEND

LABEL	PART NO	AWG	RESISTANCE (OHM/FT)	DESCRIPTION	TOTAL LENGTH
A	184 FPLP (ANN)	18	7.77	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	502'
B	142 FPLP (NAC TRIG.)	14	2.6	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	257'
D	162 FPLP (SLC)	16	4.8	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	5202'
E	184 FPLP (EIA)	18	7.77	EIA - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	3329'
S	162 FPLP (SPK)	16	4.89	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED	8941'
V	142 FPLP (NAC)	14	3.07	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	10760'

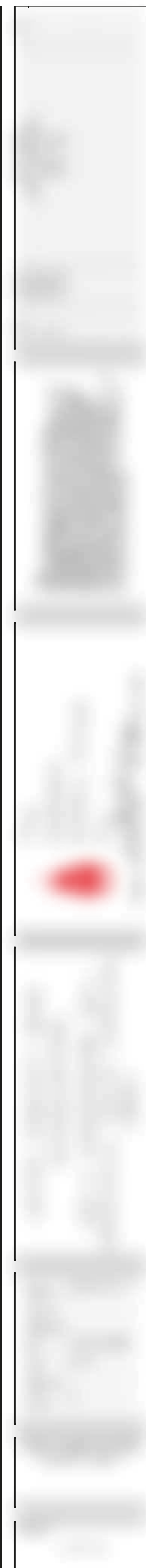
FIRE ALARM SYSTEM

ACTION

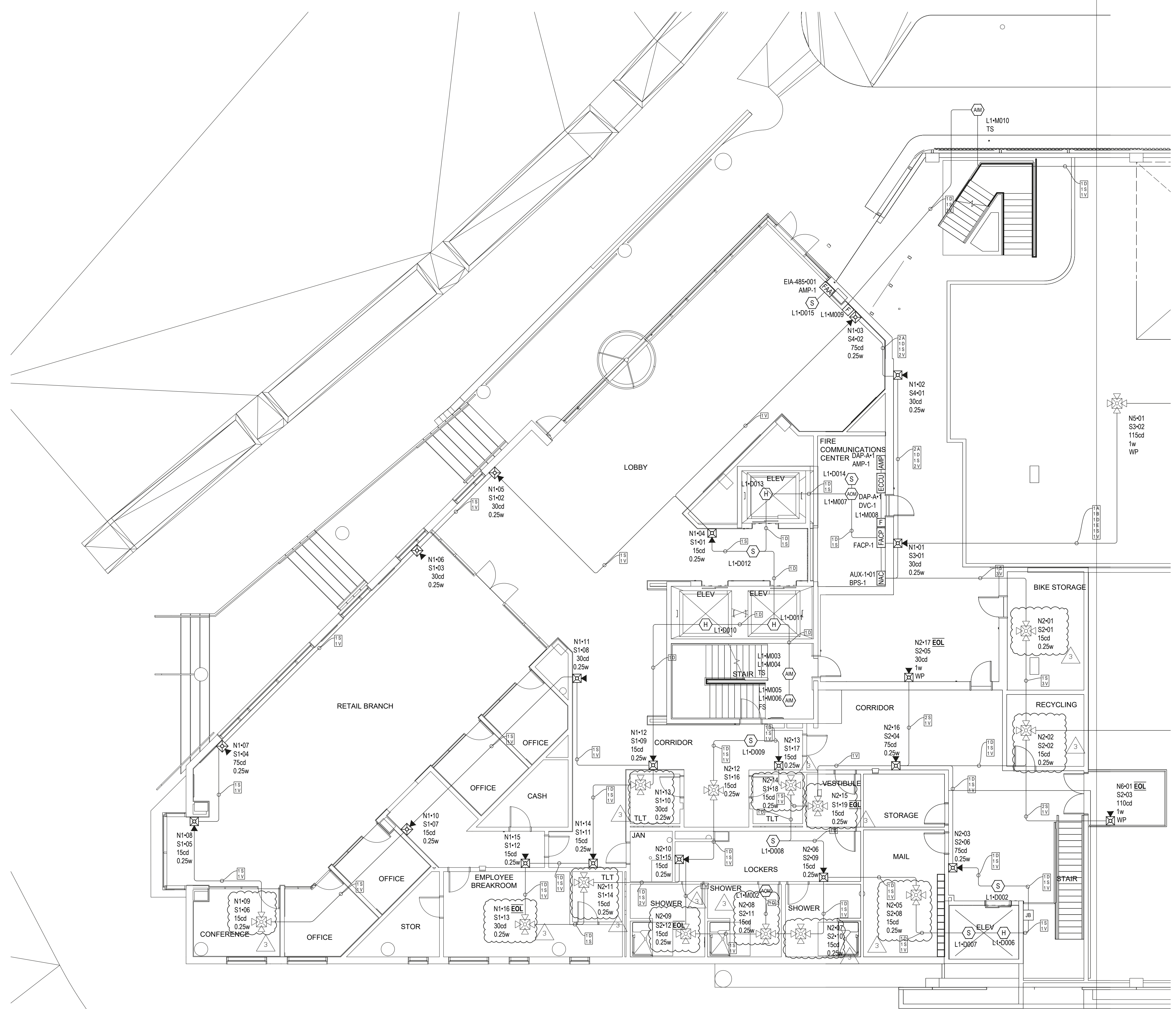
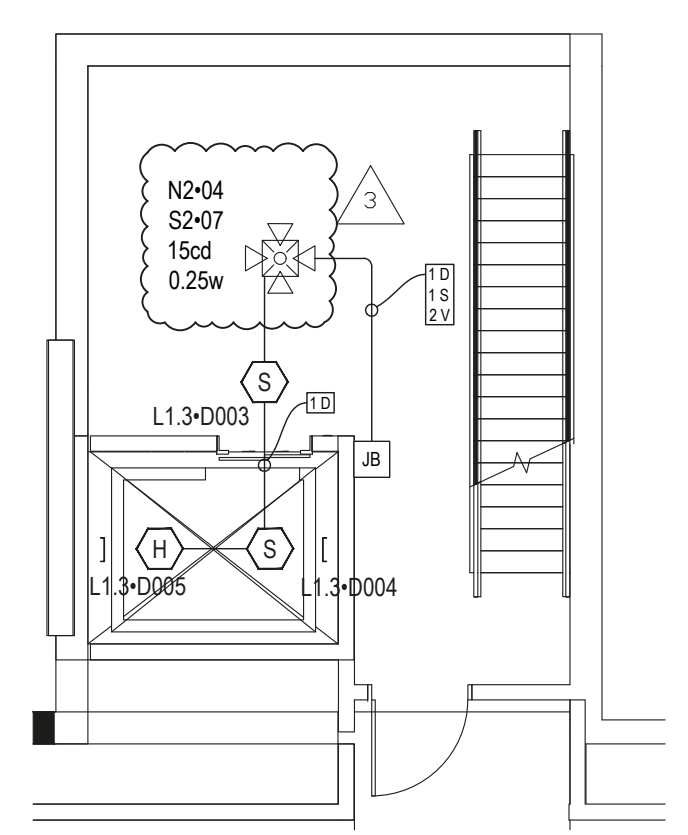
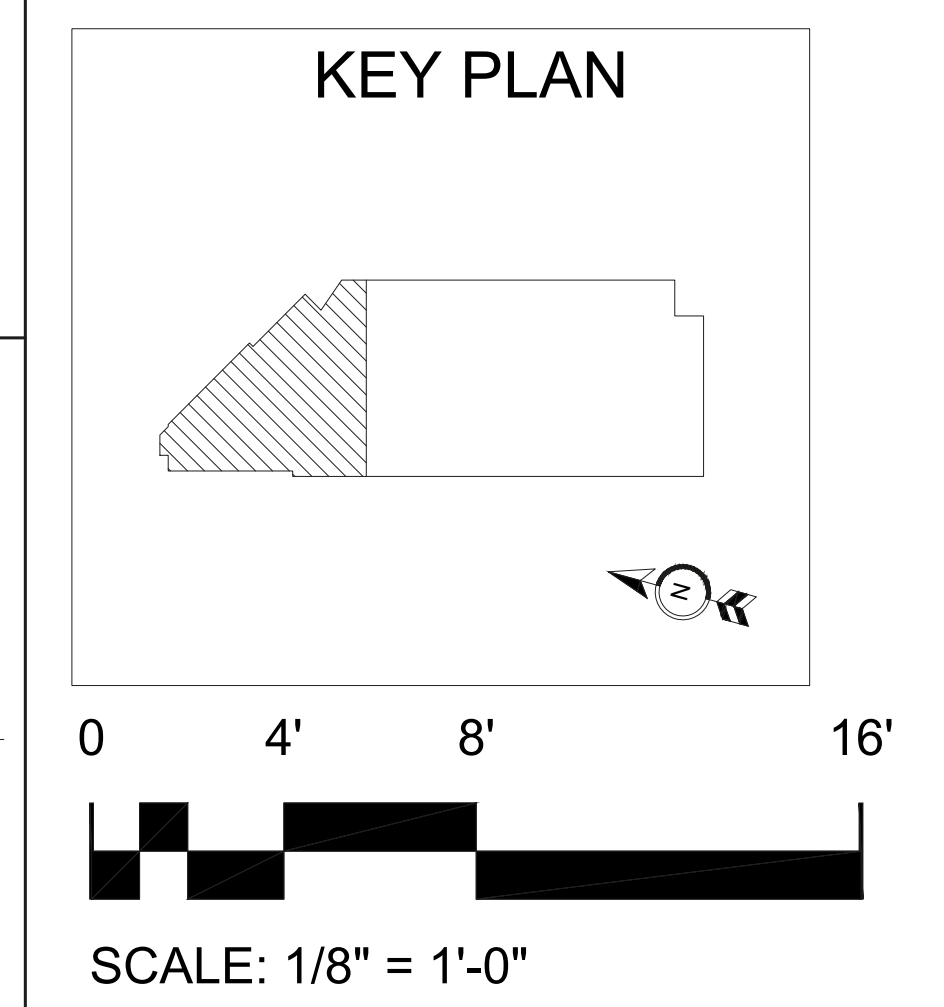
EVENT

EVENT	TROUBLE SIGNAL @ FIRE ALARM CONTROL PANEL	SUPERVISORY SIGNAL @ FIRE ALARM CONTROL PANEL	ALARM SIGNAL @ FIRE ALARM CONTROL PANEL	ACTIVATE NOTIFICATION DEVICES	GENERAL HVAC SHUTDOWN	LOCAL HVAC SHUTDOWN
SMOKE DETECTOR	●	●	●	●		
HEAT DETECTOR		●	●	●		
LOCAL DUCT DETECTOR	●					●
MANUAL PULL STATION		●	●	●		
WATERFLOW SWITCH		●	●	●		
TAMPER SWITCH		●				
PIV SWITCH	●					
FACP AC POWER FAILURE	●					
SYSTEM LOW BATTERY	●					
OPEN CIRCUIT	●					
GROUND FAULT	●					
NOTIFICATION APPLIANCE CIRCUIT SHORT	●					
STAIR SMOKE DETECTOR IN APPROVED LOCATION						
2X ATRIUM SMOKE DETECTORS						
SPRINKLER WATER-FLOW						
MANUAL ACTIVATION AT FFSCP						
PRESSURIZATION FAN SMOKE DETECTOR						

NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION



DEVICE LEGEND		
SYMBOL	DESCRIPTION	
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL	
[NAC]	10A REMOTE POWER SUPPLY	
[FAA]	ANNUNCIATOR	
[ECCU]	DVC ASSEMBLY	
[AMP]	AMPLIFIER ASSEMBLY	
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE	
[F]	ALARM BELL (BY OTHERS)	
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE	
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE	
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE	
[F]	PULL STATION, DUAL-ACTION	
[AM]	MONITOR MODULE	
[AM]	DUAL MONITOR MODULE	
[AM]	RELAY MODULE W/ FLASHSCAN, TS	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP	
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.	
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	
CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

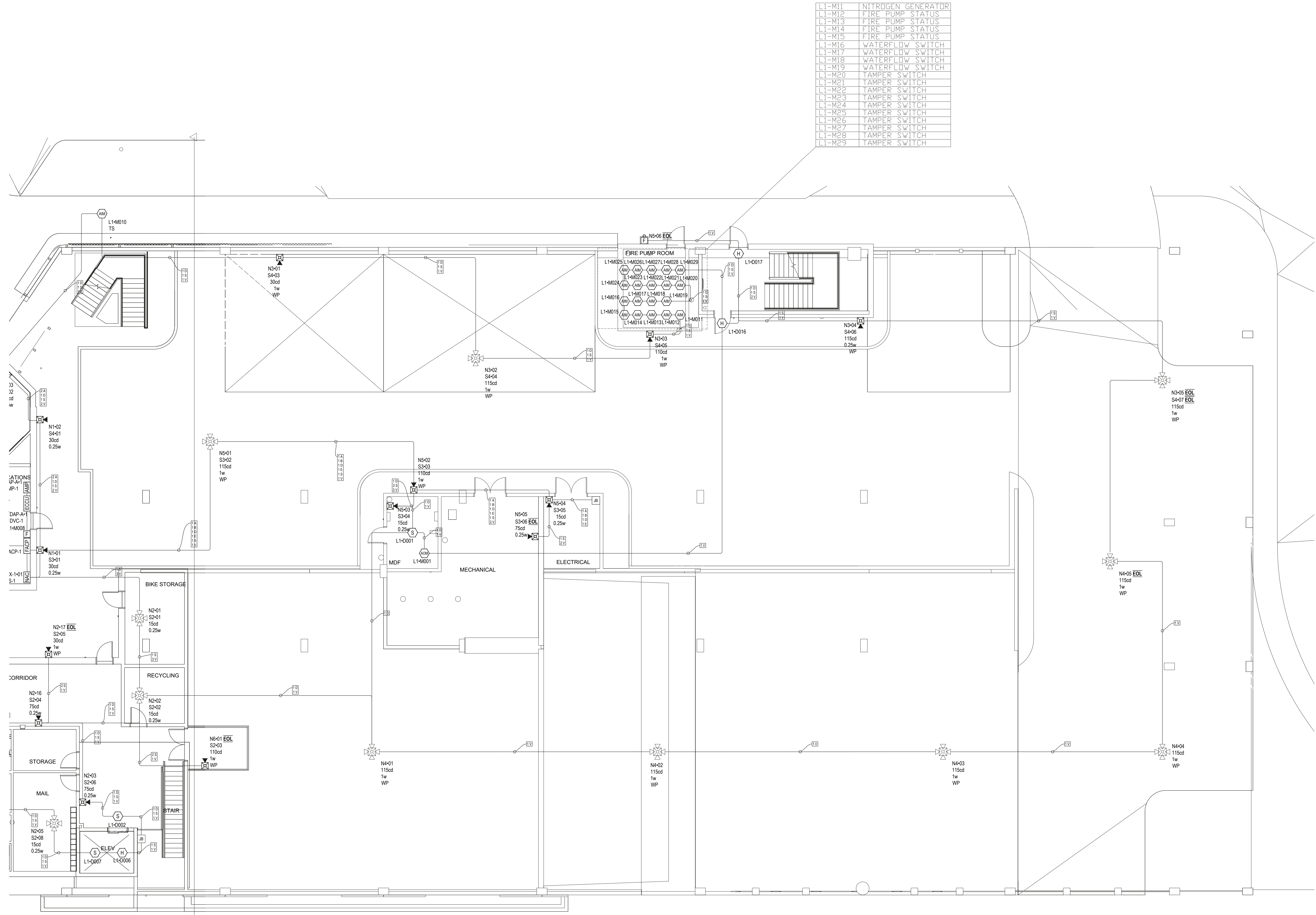
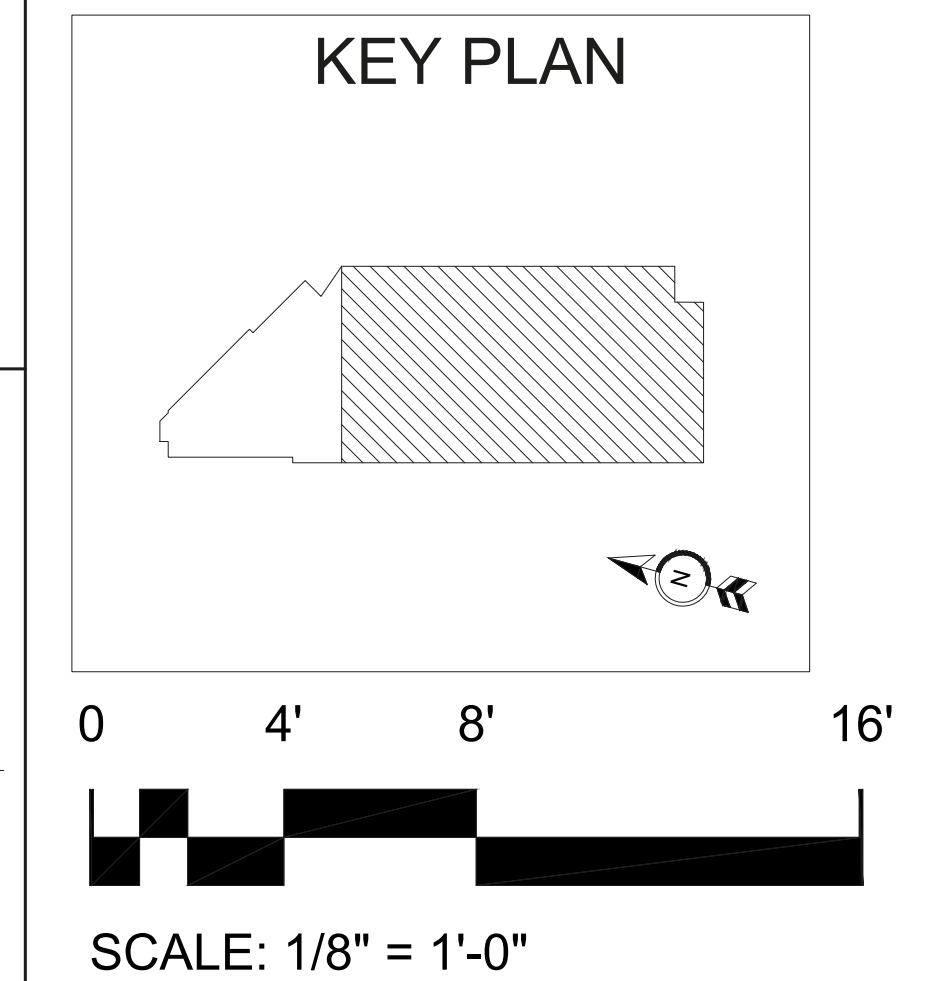


LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

CONT. SHEET 7

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED



LI-M01	NITROGEN GENERATOR
LI-M02	FIRE PUMP STATUS
LI-M03	FIRE PUMP STATUS
LI-M04	FIRE PUMP STATUS
LI-M05	FIRE PUMP STATUS
LI-M06	WATERFLOW SWITCH
LI-M07	WATERFLOW SWITCH
LI-M08	WATERFLOW SWITCH
LI-M09	WATERFLOW SWITCH
LI-M20	TAMPER SWITCH
LI-M21	TAMPER SWITCH
LI-M22	TAMPER SWITCH
LI-M23	TAMPER SWITCH
LI-M24	TAMPER SWITCH
LI-M25	TAMPER SWITCH
LI-M26	TAMPER SWITCH
LI-M27	TAMPER SWITCH
LI-M28	TAMPER SWITCH
LI-M29	TAMPER SWITCH

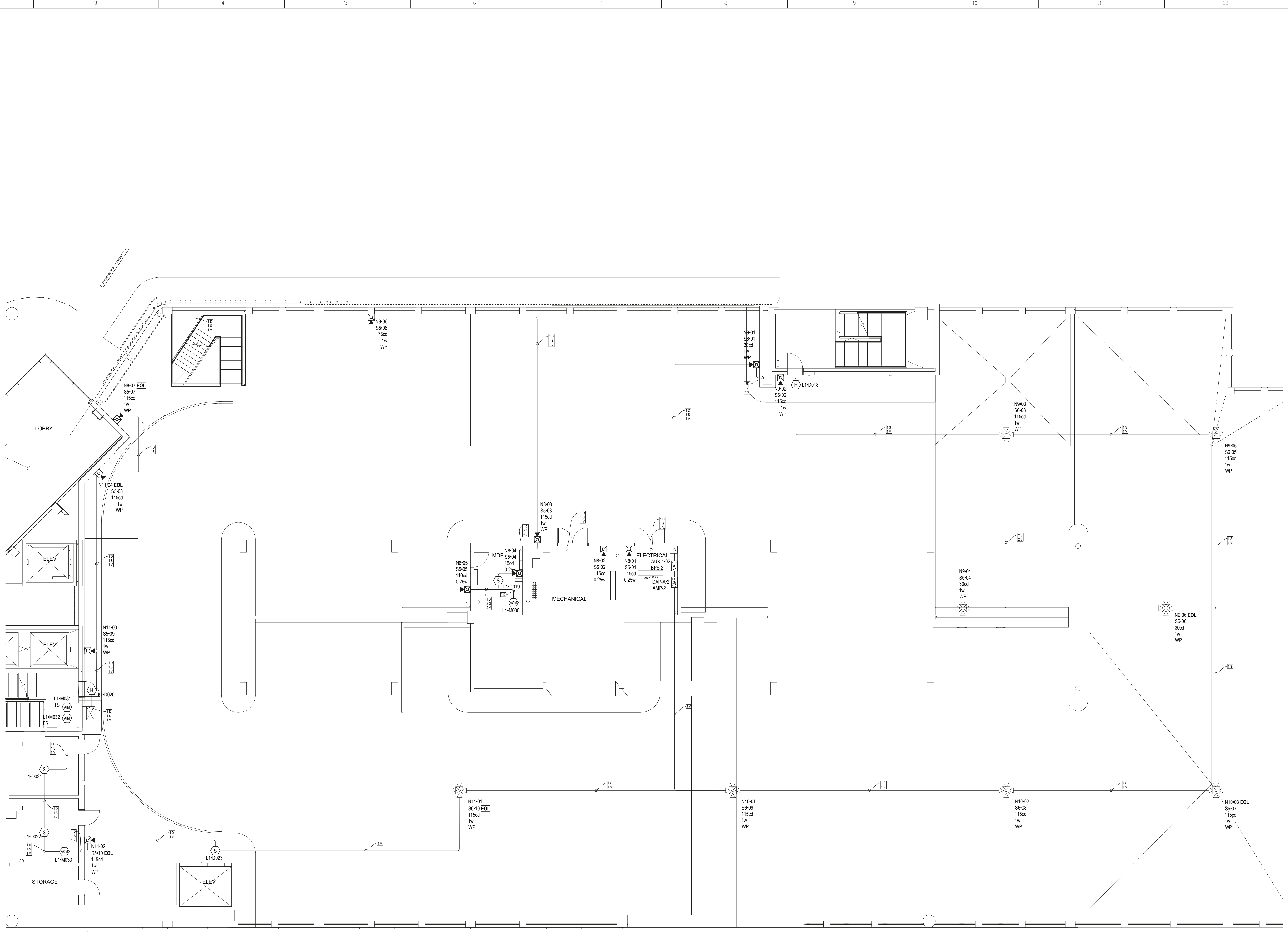
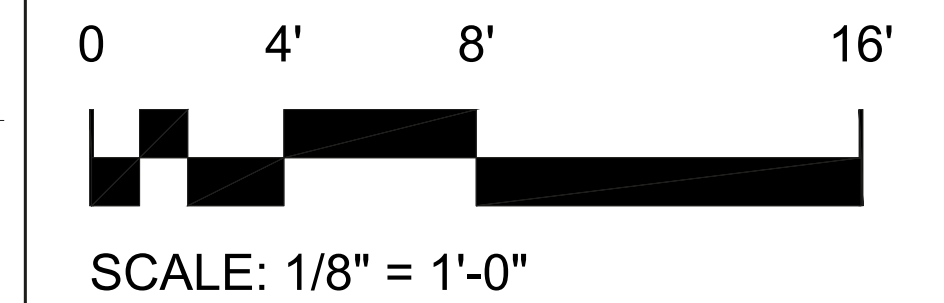
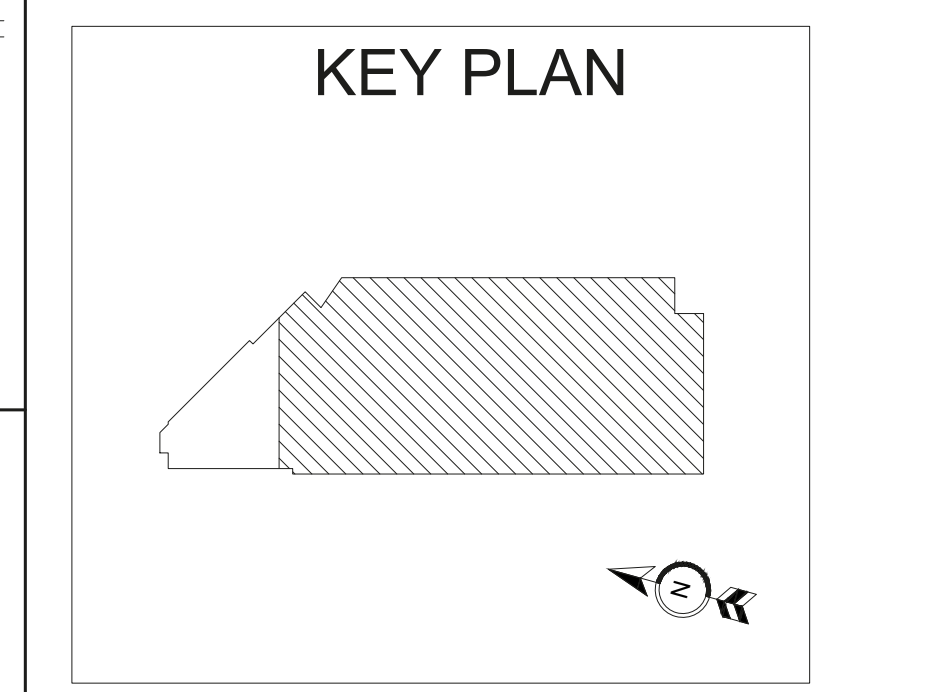
PARKING LEVEL 1
1/8"=1'-0"

CONT. SHEET 6

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

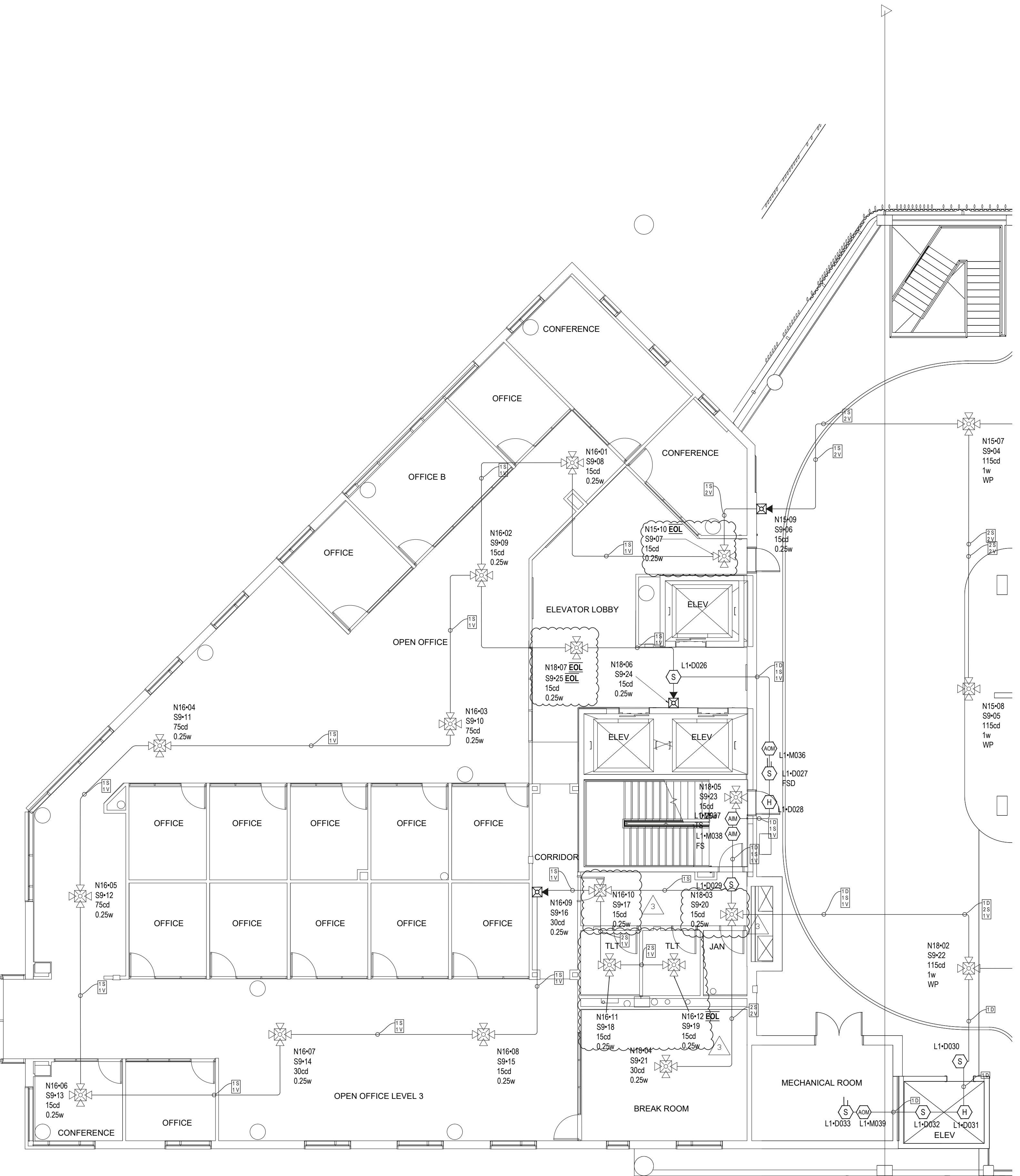
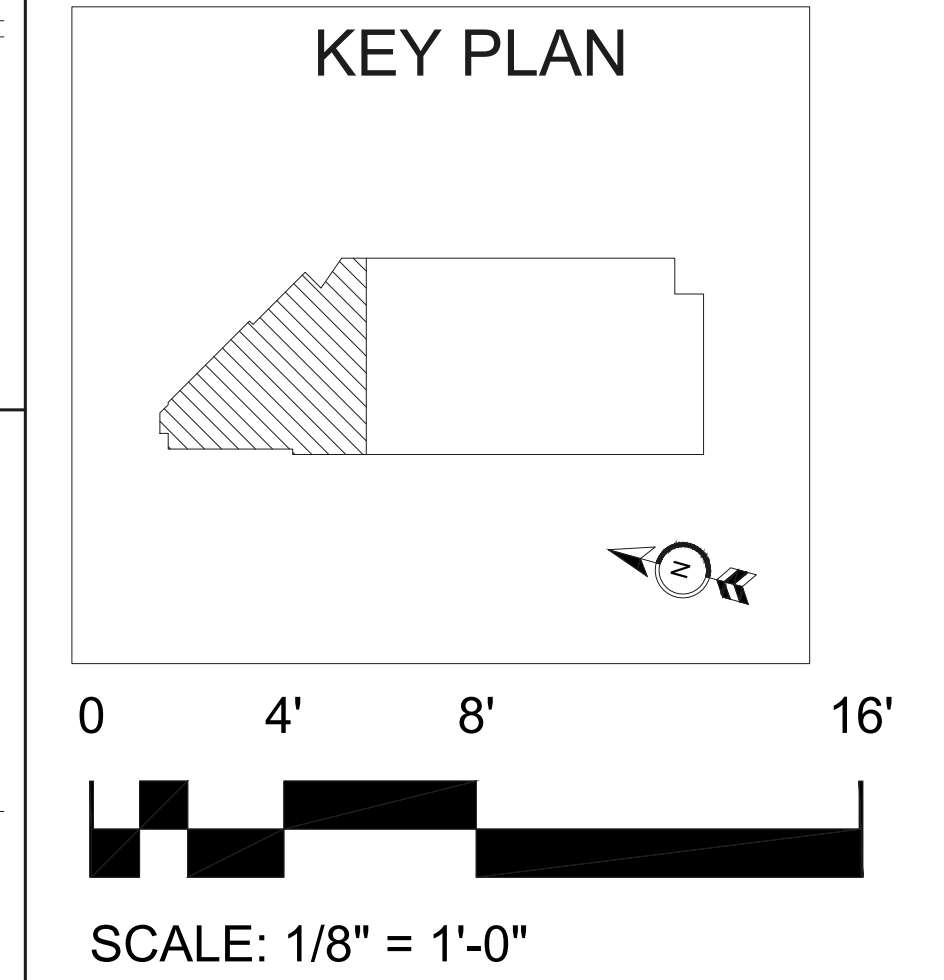
DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED



LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND		
SYMBOL	DESCRIPTION	
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL	
[NAC]	10A REMOTE POWER SUPPLY	
[FAA]	ANNUNCIATOR	
[ECCU]	DVC ASSEMBLY	
[AMP]	AMPLIFIER ASSEMBLY	
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE	
[F]	ALARM BELL (BY OTHERS)	
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE	
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE	
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE	
[F]	PULL STATION, DUAL-ACTION	
[AM]	MONITOR MODULE	
[AM]	DUAL MONITOR MODULE	
[AM]	RELAY MODULE W/ FLASHSCAN, TS	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP	
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.	
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	
CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

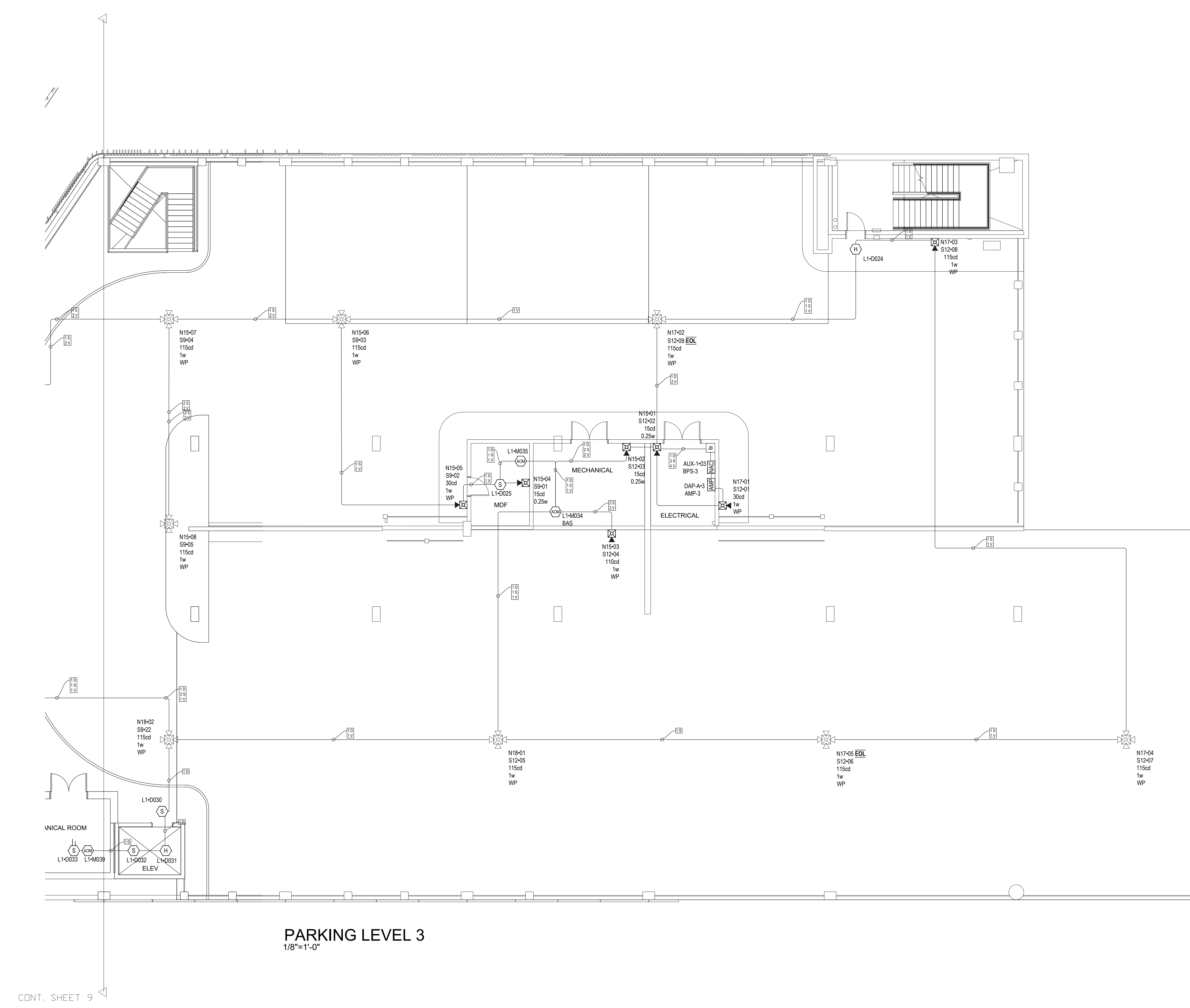
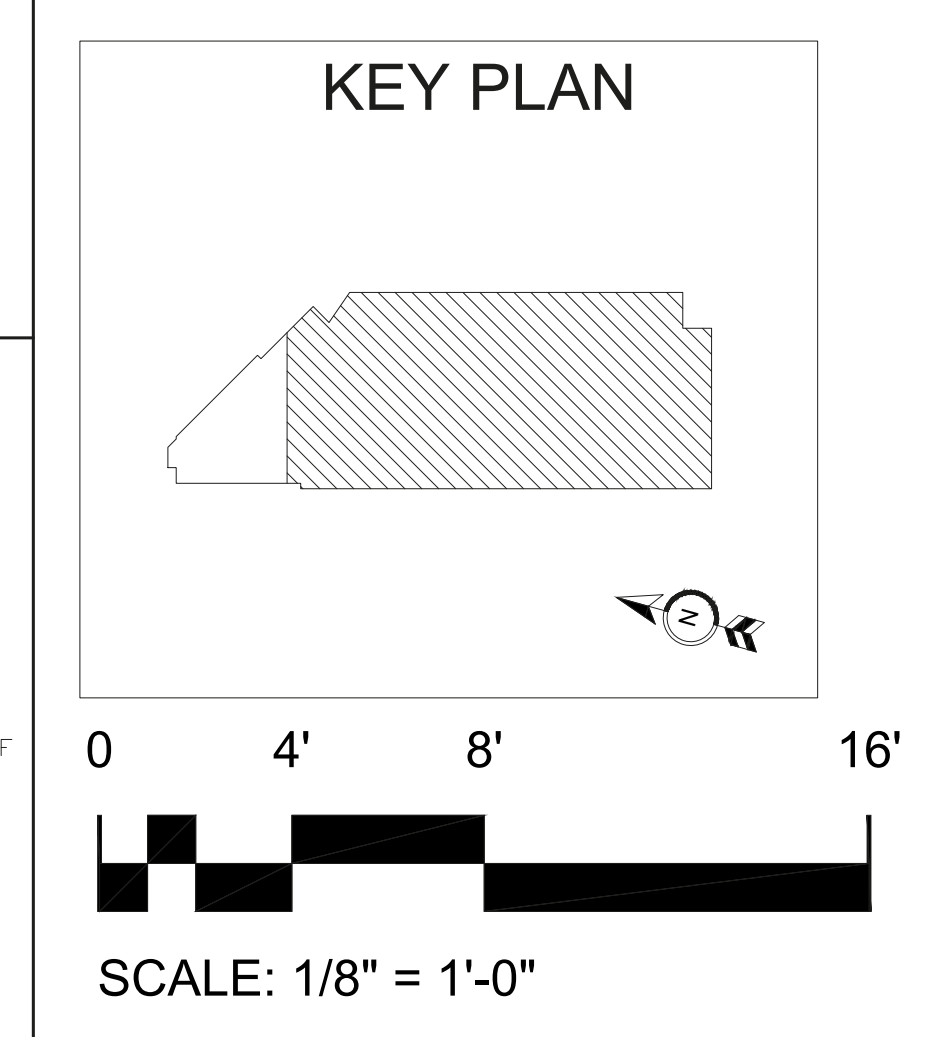


BRANCH LEVEL 2
1/8"=1'-0"

CONT. SHEET 10

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND		
SYMBOL	DESCRIPTION	
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL	
[NAC]	10A REMOTE POWER SUPPLY	
[FAA]	ANNUNCIATOR	
[ECCU]	DVC ASSEMBLY	
[AMP]	AMPLIFIER ASSEMBLY	
[WP] [Speaker]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE	
[F]	ALARM BELL (BY OTHERS)	
[WP] [Speaker]	SPEAKER/STROBE WALL MOUNT, WHITE	
[WP] [Speaker]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE	
[WP] [Speaker]	SPEAKER/STROBE CEILING MOUNT, WHITE	
[F]	PULL STATION, DUAL-ACTION	
[AM]	MONITOR MODULE	
[AM]	DUAL MONITOR MODULE	
[AM]	RELAY MODULE W/ FLASHSCAN, TS	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R	
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP	
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.	
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	
CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED



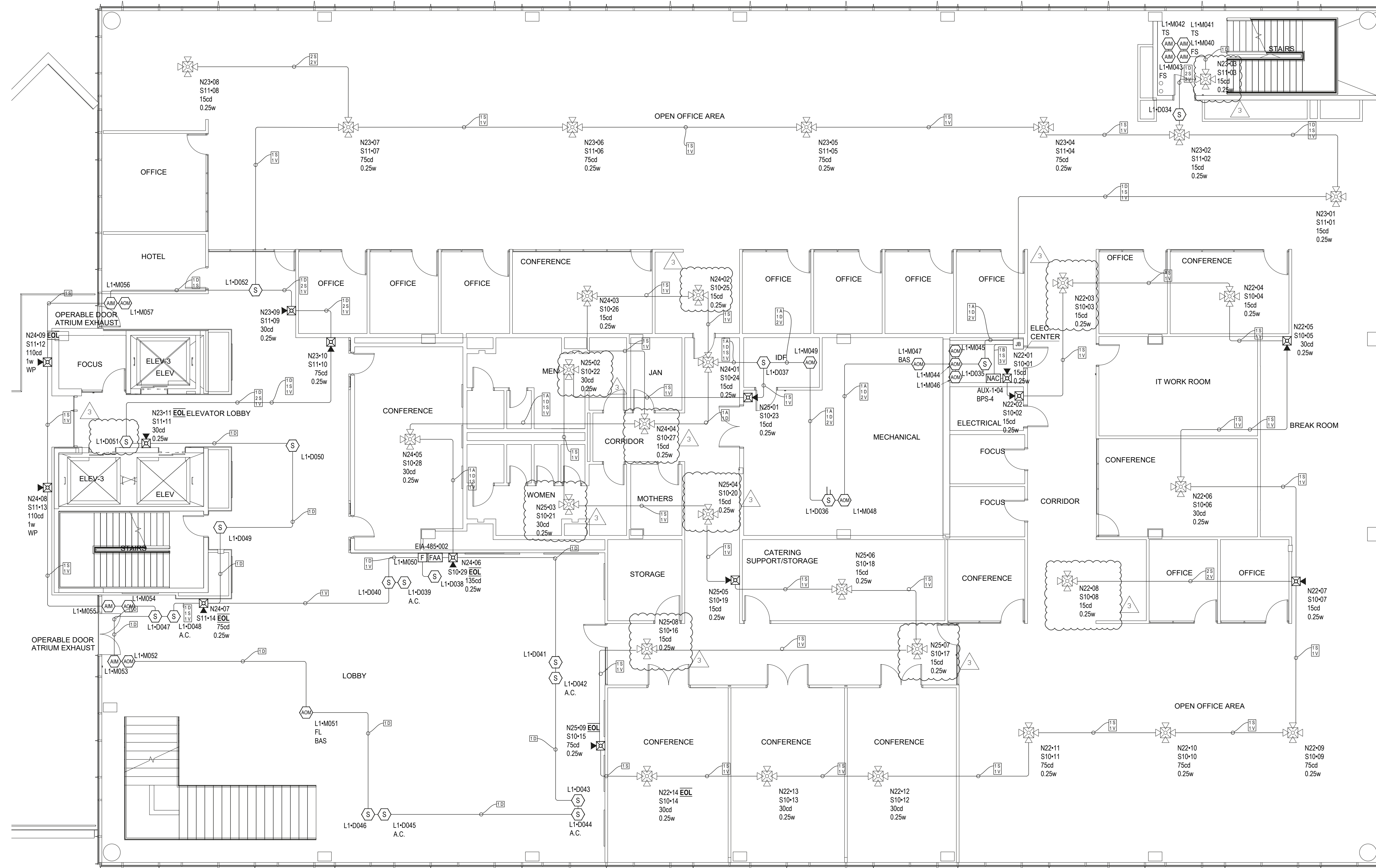
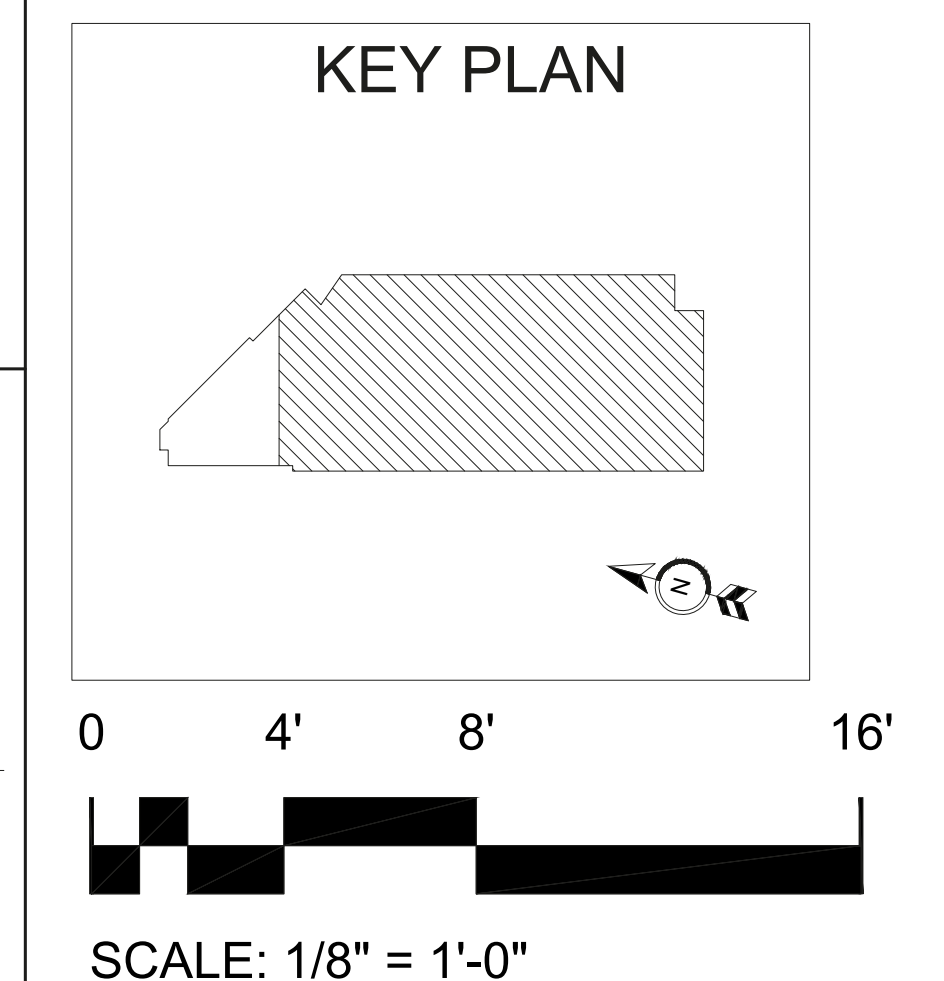
PARKING LEVEL 3
1/8"=1'-0"

CONT. SHEET 9

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

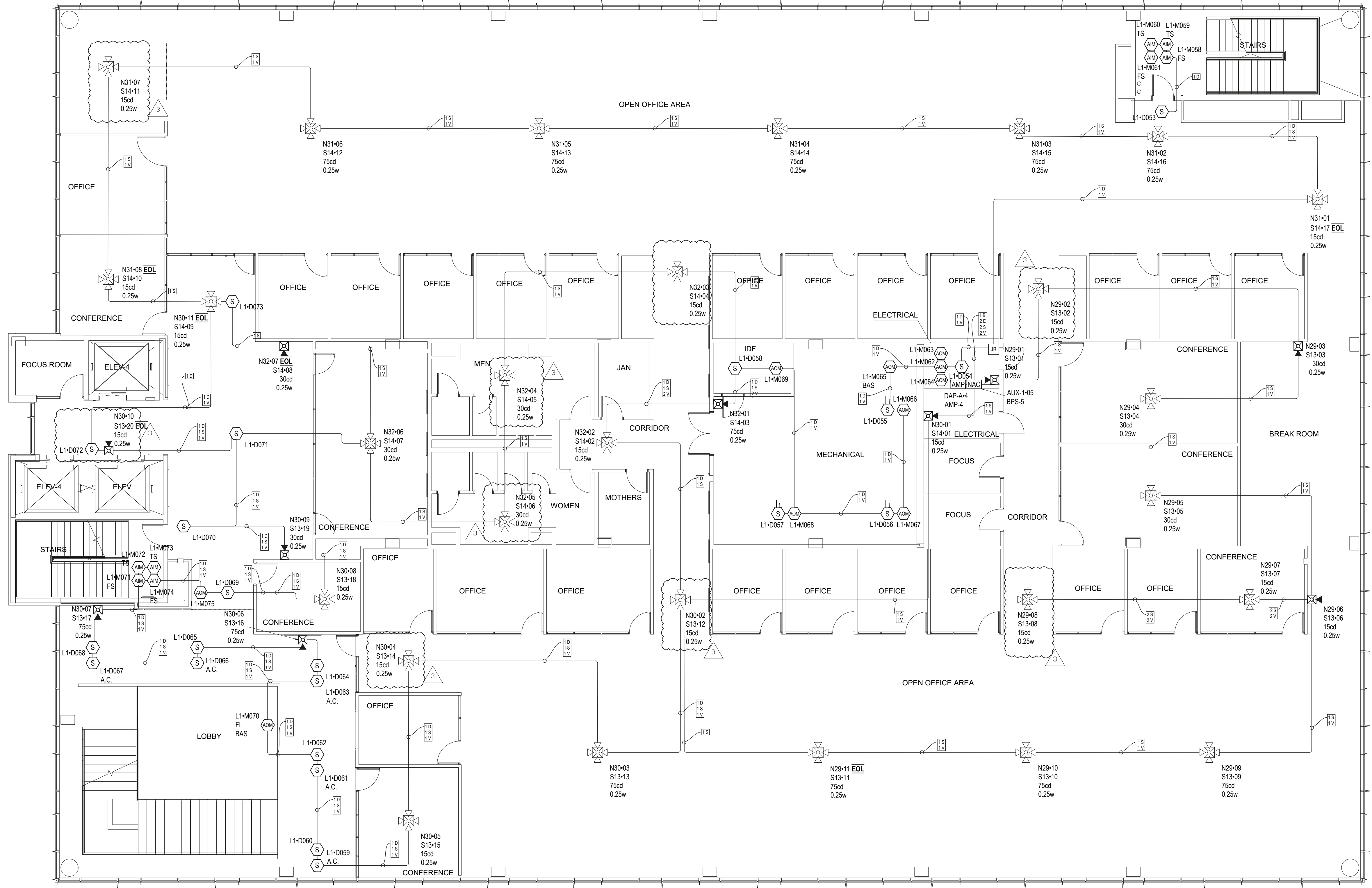
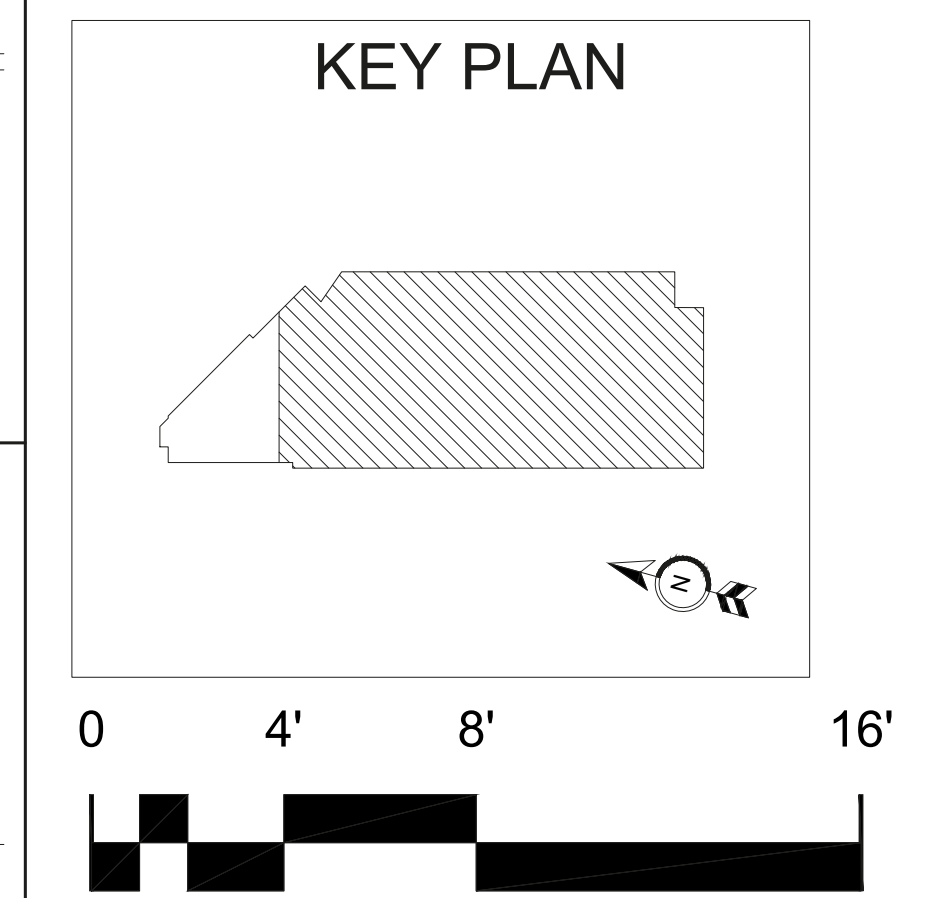


OFFICE LEVEL 4
1/8"=1'-0"

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

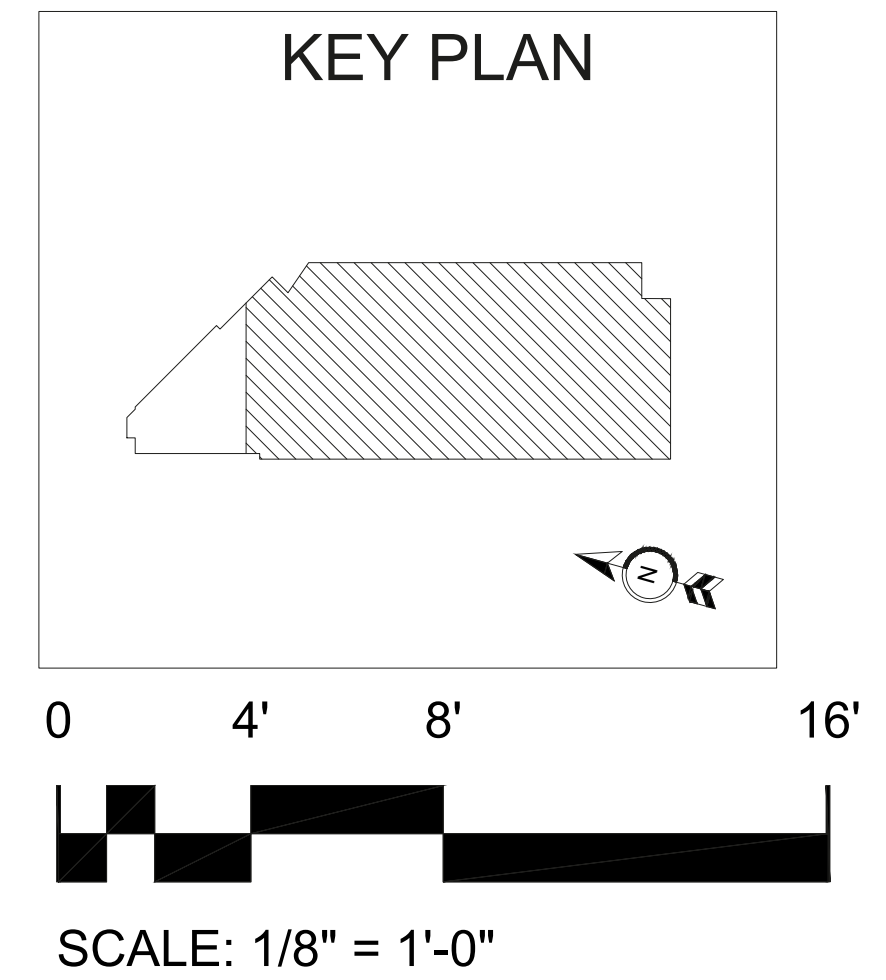
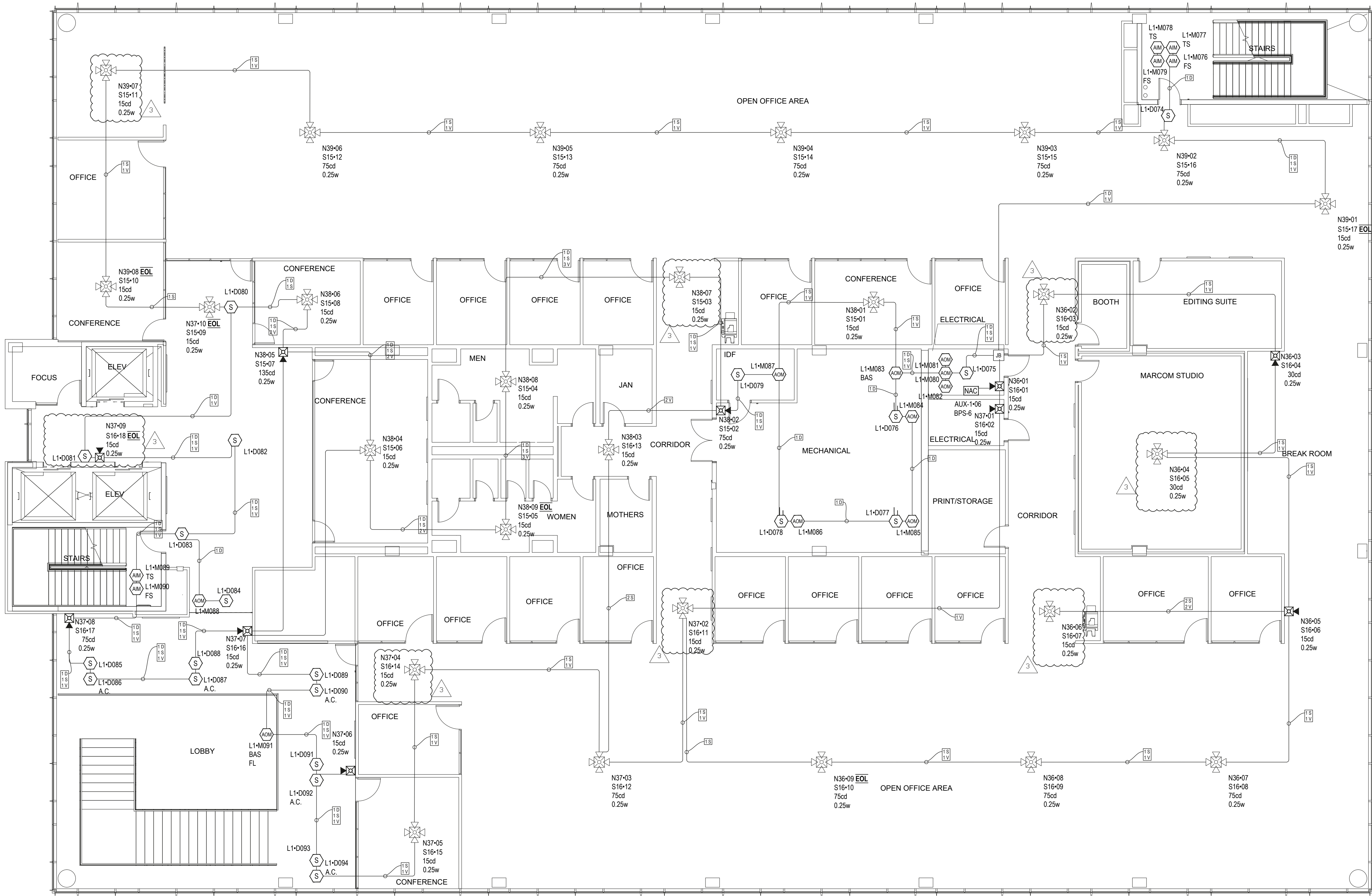


OFFICE LEVEL 5
1/8"=1'-0"

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

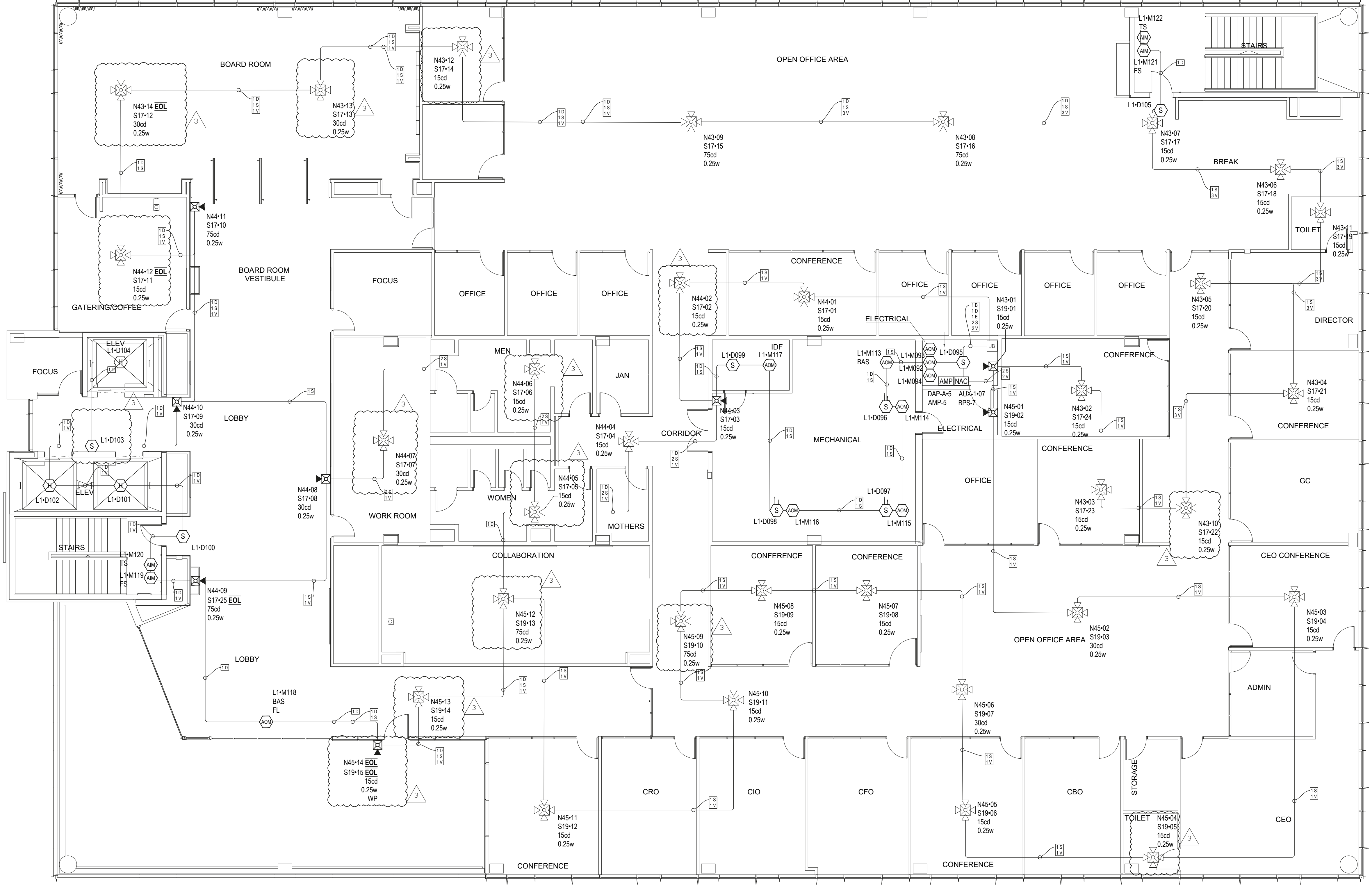
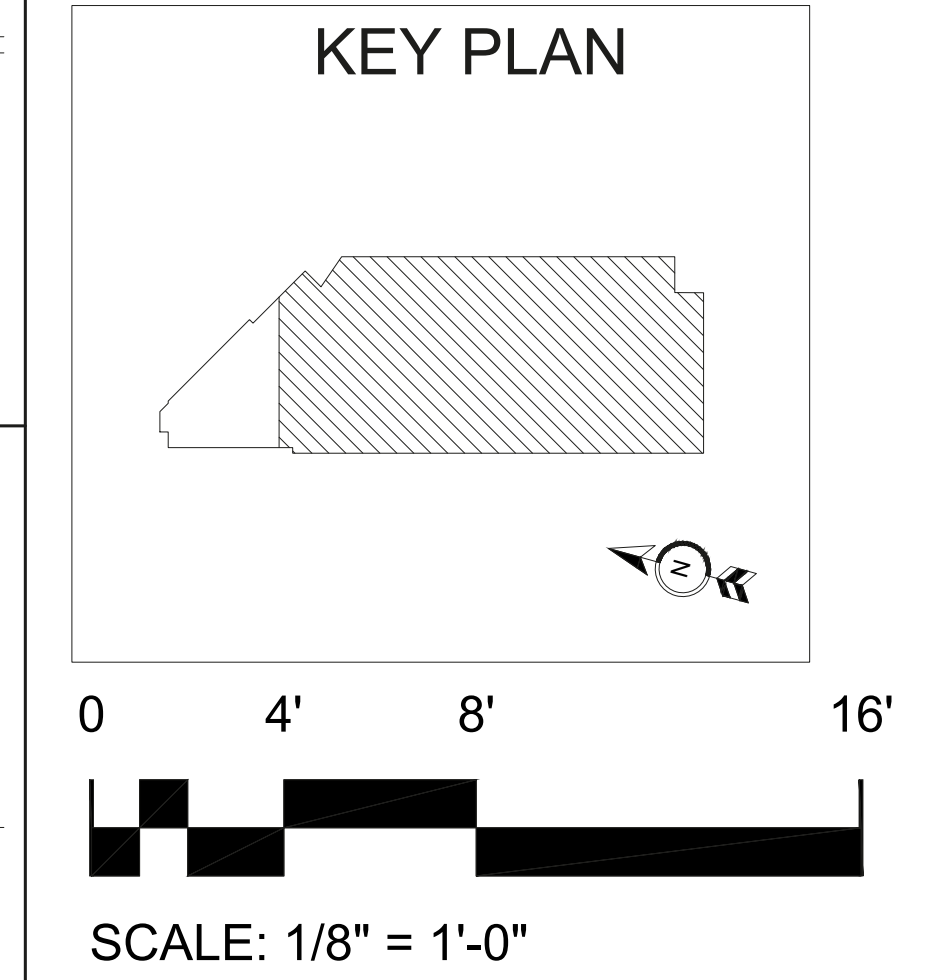


OFFICE LEVEL 6
1/8"=1'-0"

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL
[NAC]	10A REMOTE POWER SUPPLY
[FAA]	ANNUNCIATOR
[ECCU]	DVC ASSEMBLY
[AMP]	AMPLIFIER ASSEMBLY
[WP]	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE
[F]	ALARM BELL (BY OTHERS)
[WP]	SPEAKER/STROBE WALL MOUNT, WHITE
[WP]	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE
[WP]	SPEAKER/STROBE CEILING MOUNT, WHITE
[F]	PULL STATION, DUAL-ACTION
[AM]	MONITOR MODULE
[AM]	DUAL MONITOR MODULE
[AM]	RELAY MODULE W/ FLASHSCAN, TS
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R
[S]	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP
[H]	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.
[S]	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

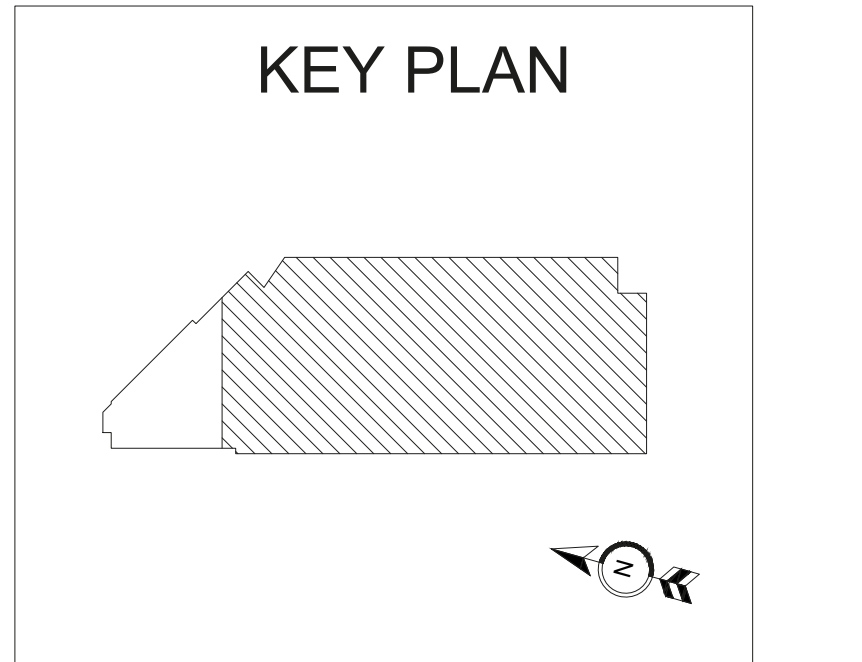
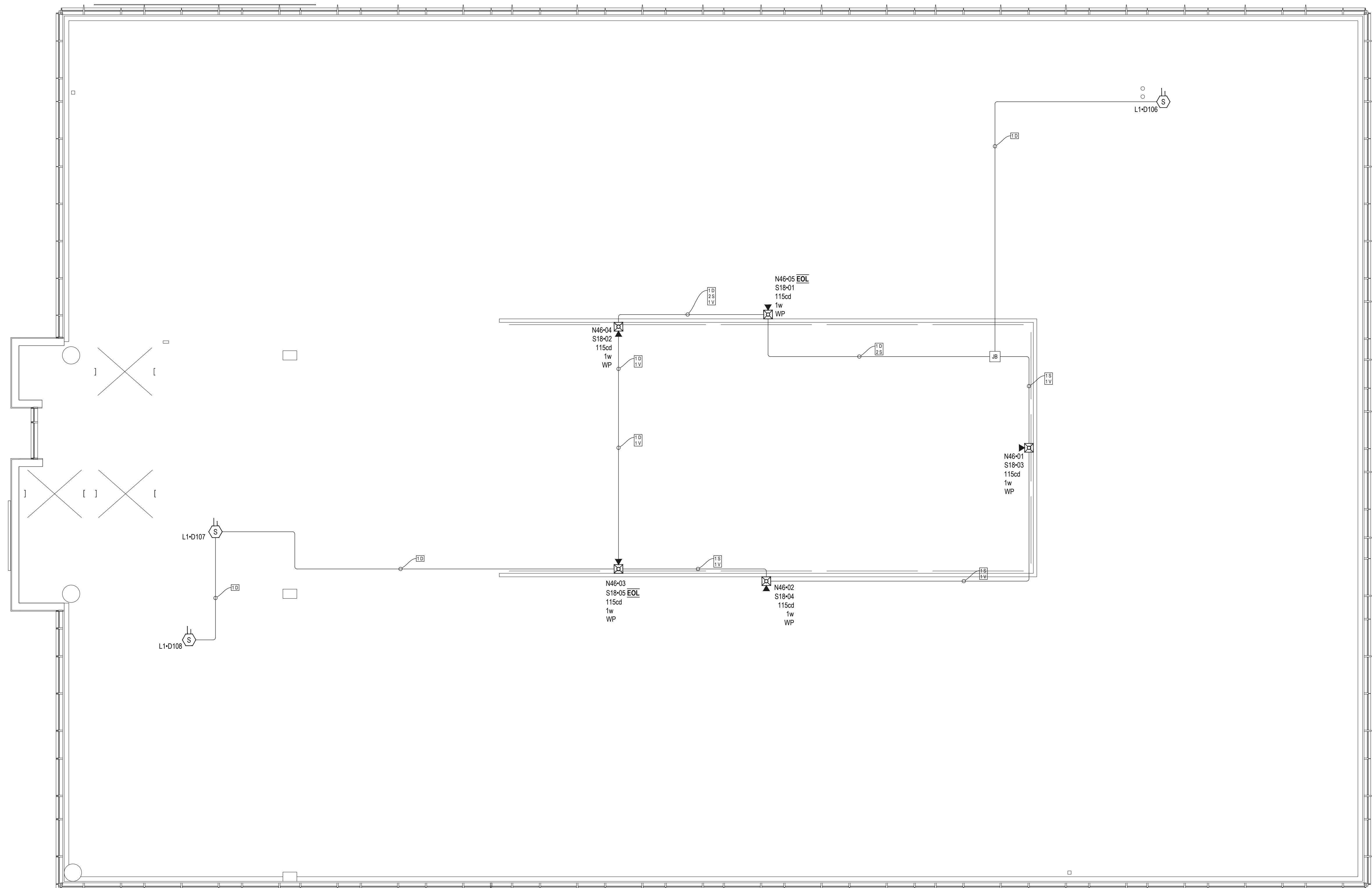


ADDRESS	DESCRIPTION	EQUIP.
L1-M095	RELAY 1	AEF-1
L1-M096	RELAY 2	AEF-1 VFD
L1-M097	MONITOR	AEF-1 MONITOR VOLTAGE
L1-M098	MONITOR	SPF-1 MONITOR VOLTAGE
L1-M099	RELAY 1	SPF-1 VFD
L1-M100	RELAY 2	SPF-1 VFD
L1-M101	RELAY 1	SPF-2
L1-M102	RELAY 2	SPF-2 VFD
L1-M103	MONITOR	SPF-2 MONITOR VOLTAGE
L1-M104	MONITOR	EPF-1 MONITOR VOLTAGE
L1-M105	RELAY 1	EPF-1 VFD
L1-M106	RELAY 2	EPF-1 VFD
L1-M107	RELAY 1	EPF-2
L1-M108	RELAY 2	EPF-2 VFD
L1-M109	MONITOR	EPF-2 MONITOR VOLTAGE
L1-M110	MONITOR	EEF-1 MONITOR VOLTAGE
L1-M111	RELAY 1	EEF-1 VFD
L1-M112	RELAY 2	EEF-1

OFFICE LEVEL 7
1/8" = 1'-0"

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING

DEVICE LEGEND		
SYMBOL	DESCRIPTION	
[FACP]	NFS2-3030D FIRE ALARM CONTROL PANEL	
[NAC]	10A REMOTE POWER SUPPLY	
[FAA]	ANNUNCIATOR	
[ECCU]	DVC ASSEMBLY	
[AMP]	AMPLIFIER ASSEMBLY	
[WP] (Speaker symbol)	SPEAKER/STROBE OUTDOOR WALL MOUNT, WHITE	
[F] (Bell symbol)	ALARM BELL (BY OTHERS)	
[WP] (Speaker symbol)	SPEAKER/STROBE WALL MOUNT, WHITE	
[WP] (Speaker symbol)	SPEAKER/STROBE OUTDOOR CEILING MOUNT, WHITE	
[WP] (Speaker symbol)	SPEAKER/STROBE CEILING MOUNT, WHITE	
[F] (Pull station symbol)	PULL STATION, DUAL-ACTION	
[AM]	MONITOR MODULE	
[AM]	DUAL MONITOR MODULE	
[AM]	RELAY MODULE W/ FLASHSCAN, TS	
[S] (Detector symbol)	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R	
[S] (Detector symbol)	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/FSP-951R, WP	
[H] (Thermal sensor symbol)	LOW-PROFILE 135°F FIXED THERMAL SENSOR, FLASHSCAN ONLY.	
[S] (Smoke detector symbol)	LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	
CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
B	14	NAC TRIGGER - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
E	18	EAI - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
S	16	SPEAKER - 2 COND. SOLID COPPER FPLP ANALOG SHIELDED
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED



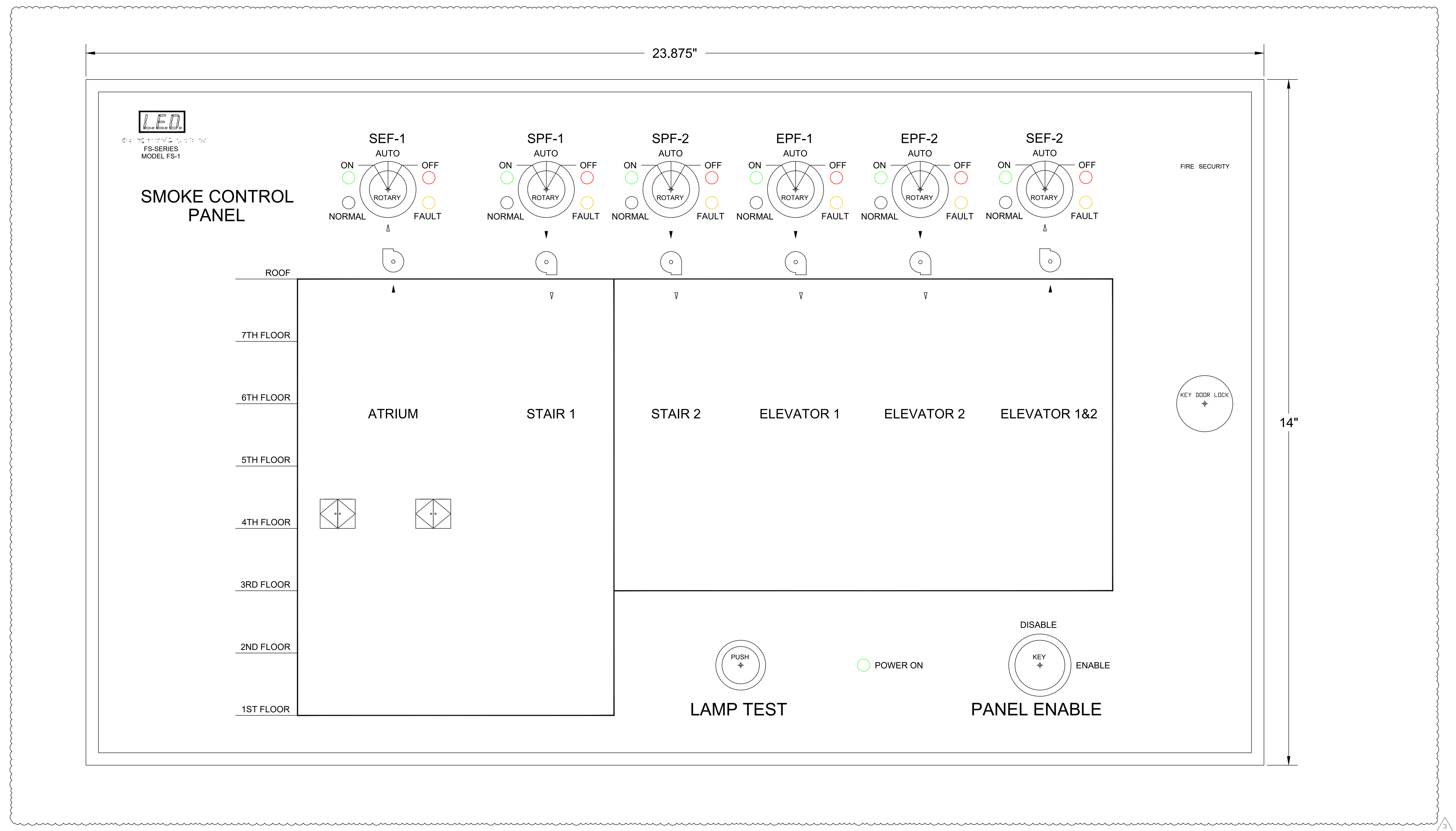
0 4' 8' 16'



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

ROOF
1/8"=1'-0"

LEGEND	
PM	POWER MONITORING
FL	FIELD LOCATED
BAS	BUILDING AUTOMATION SYSTEM
FS	WATERFLOW SWITCH
TS	TAMPER SWITCH
A.C.	ABOVE CEILING



Smoke Control Sequence of Operations

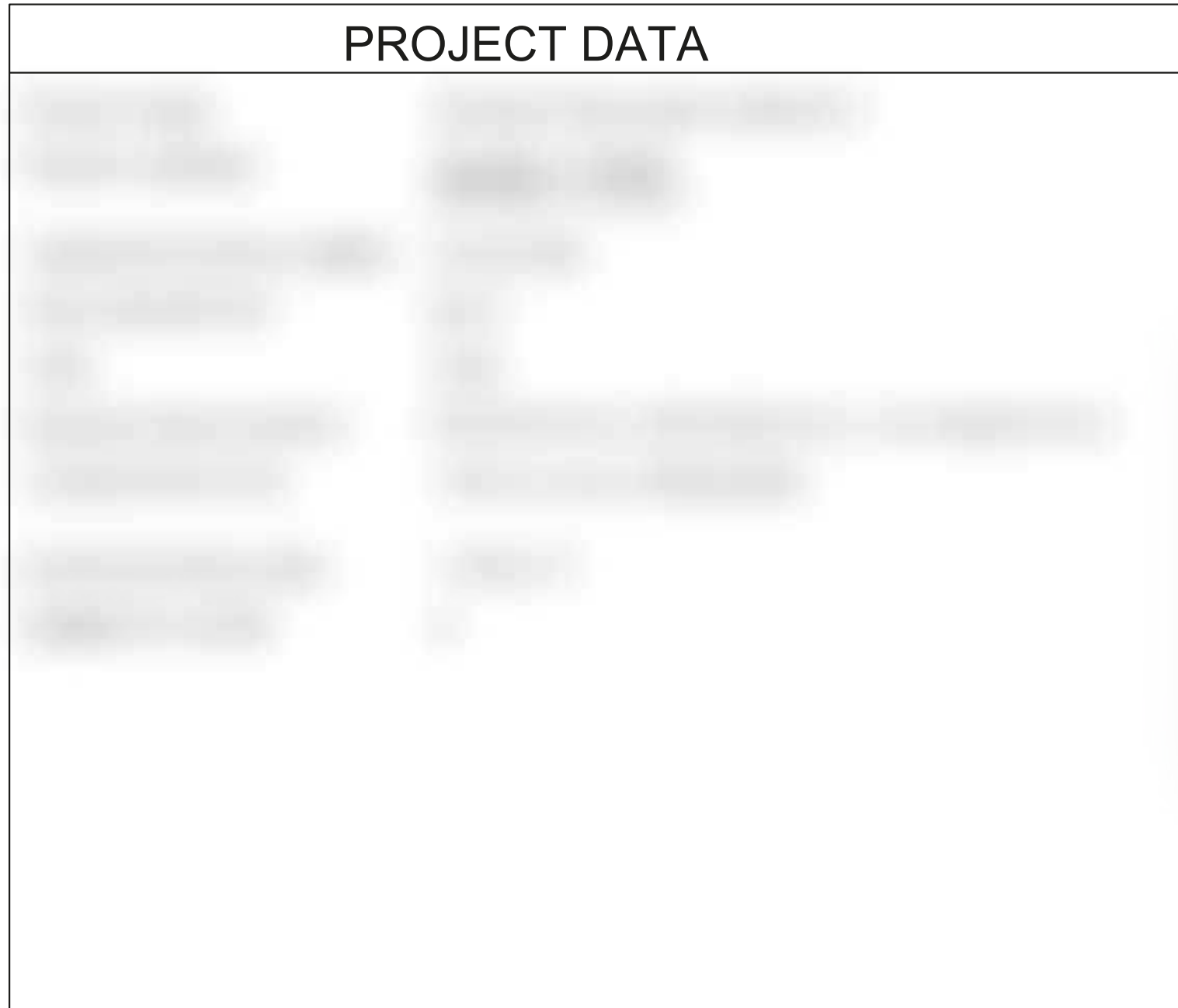
Fire Alarm Initiating Device	Activation of Stairwell Pressurization Systems	Normal Building HVAC Shutdown	Activation of Atrium Exhaust System	Open Make-Up Air Openings on Level 4	Shutdown Corresponding Pressurization Fan	Alarm/Supervisory Condition at FACP and FFSCP
Stair Smoke Detector in Approved Location	X	X				X
2x Atrium Smoke Detectors		X	X	X		X
Sprinkler Water-Flow	X	X	X	X		X
Manual Activation at FFSCP	X	X	X	X		X
Pressurization Fan Smoke Detector					X	X

FIRE ALARM SYSTEM

SHEET INDEX

SHEET	DESCRIPTION
FA-00.0	FIRE ALARM TITLE SHEET
FA-00.1	FIRE ALARM CONTROL SEQUENCE OF OPERATIONS
FA-00.2	FIRE ALARM CONTROL PANEL DETAIL
FA-00.3	FIRE ALARM POINT TO POINT DETAILS
FA-14	FIRE ALARM PLAN - LEVEL 14

PROJECT DATA



120VAC EMERGENCY POWER

ALL FIRE ALARM CONTROL PANELS AND BOOSTER POWER SUPPLIES TO BE CONNECTED TO POWER GENERATOR FOR EMERGENCY POWER.

VICINITY MAP



EMERGENCY VOICE EVACUATION MESSAGE

(VOICE MESSAGE WILL BE PRECEDED BY A TEMPORAL TONE)
 EMERGENCY VOICE EVACUATION MESSAGE
 ATTENTION! ATTENTION!
 AN EMERGENCY HAS BEEN REPORTED IN THIS BUILDING.
 PLEASE CEASE OPERATIONS AND LEAVE THE BUILDING UTILIZING
 THE NEAREST EXIT OR FIRE EXIT STAIRWAY.
 DO NOT USE THE ELEVATORS.

SCOPE OF WORK

TENANT IMPROVEMENT 14TH FLOOR CORRIDOR. NEW NOTIFICATION WHERE REQUIRED. NEW SMOKE DETECTORS IN EXISTING LOCATIONS. NO NEW MECHANICAL DEVICES.

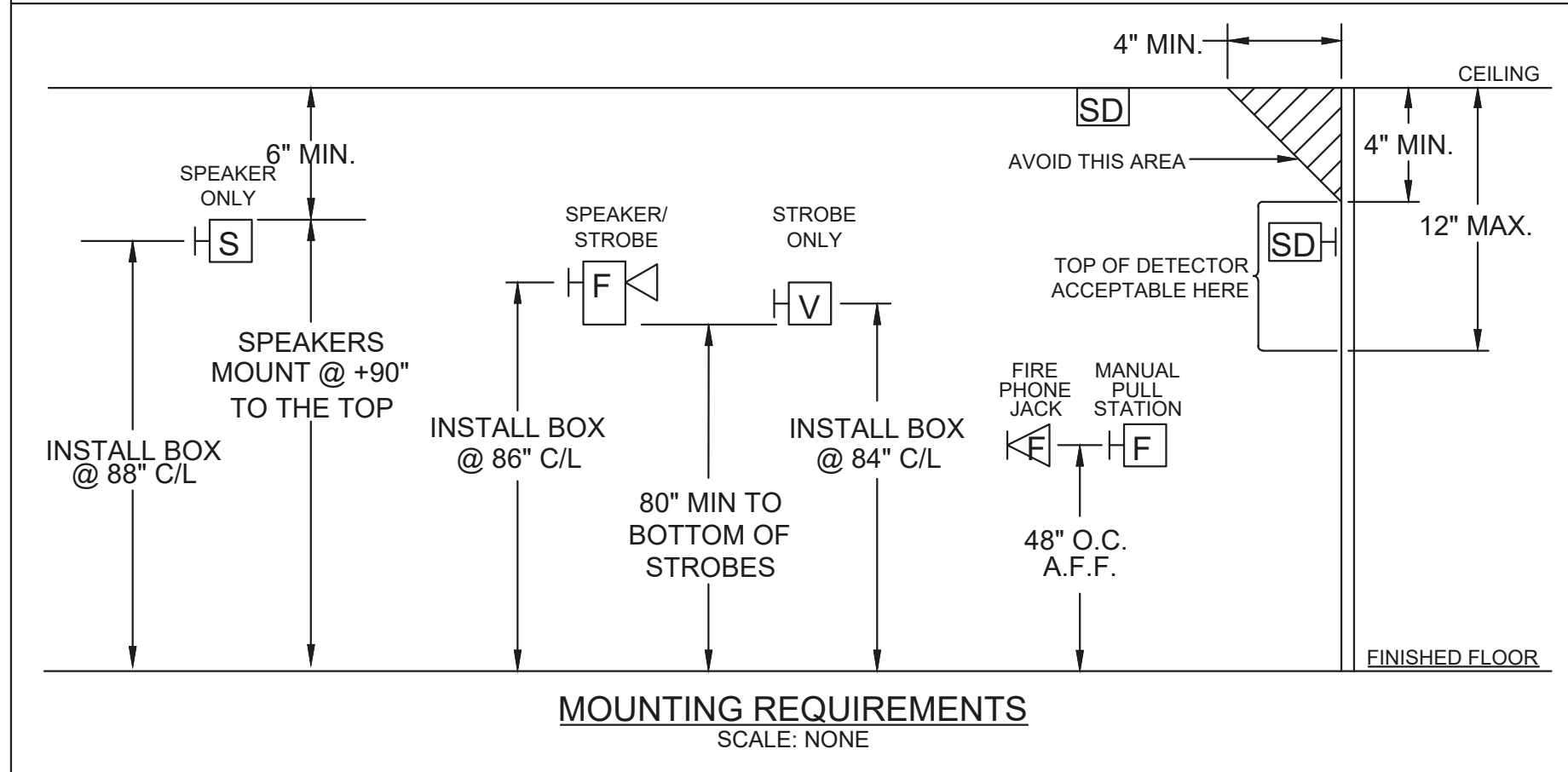
FIRE ALARM CABLE LEGEND

CIRCUIT TYPE	DESIGNATION	DESCRIPTION	WIRE TYPE	CONDUCTOR AWG
IDC/CLASS B	A	AUDIBLE - SPEAKER, VOICE CIRCUIT	14/2 FPLP	(2) #14 AWG
SLC/CLASS B	C	SIGNAL LINE CIRCUIT (S.L.C.)	16/2 FPLP	(2) #16 AWG
NAC	V	NOTIFICATION APPLIANCE CIRCUIT	12/2 FPLP	(2) #12 AWG

CABLE IS TO BE OPEN AIR CABLE SYSTEM INSTALLED IN A WORKMAN LIKE MANNER. SLC TO BE INSTALLED IN METALLIC FLEXIBLE CONDUIT.

NOTE: #CD = Condo setting. See Floor Plan, Riser Diagram, and Voltage Drop Calculation for quantity.
 EX = Existing Device
 EXRL = Relocated Existing Device
 WP = Weather Proof

DEVICE MOUNTING DETAIL



APPLICABLE CODES

DESIGN AND CONSTRUCTION SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL BUILDING CODES AND ORDINANCES TO INCLUDE BUT NOT LIMITED TO THE MOST CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
 -2019 CALIFORNIA BUILDING CODE PART 2 OF TITLE 24
 -2019 CALIFORNIA ELECTRIC CODE PART 3 OF TITLE 24
 -2019 CALIFORNIA MECHANICAL CODE PART 4 OF TITLE 24
 -2019 CALIFORNIA FIRE CODE PART 9 OF TITLE 24
 -ACCESSIBILITY REGULATIONS AS PRESCRIBED BY THE 2016 CALIFORNIA BUILDING CODE, CHAPTER 11
 -AMERICANS WITH DISABILITIES ACT GUIDELINES, AS AMENDED, 28 CFR PART 36 AND 36, CFR 1911.
 -ALL CODES AND ORDINANCES ADOPTED BY THE CITY OF SAN DIEGO.

FIRE MARSHAL REQUIRED NOTES

- THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, 2019 EDITION (PARTS 2.3.4 AND 9); CALIFORNIA BUILDING CODE, 2019; CALIFORNIA ELECTRICAL CODE, 2019; CALIFORNIA MECHANICAL CODE, 2019; CALIFORNIA FIRE CODE, 2019 AND NFPA 72, 2016 EDITION, CITY OF SAN DIEGO TECHNICAL BULLETINS.
- THE INSTALLATION OF ALL FIRE ALARM WIRING AND EQUIPMENT SHALL BE IN ACCORDANCE WITH C.E.C., ARTICLE 760, FIRE PROTECTIVE SIGNALING SYSTEMS.
- ALL CONDUIT SIZES SHALL BE IN ACCORDANCE WITH C.E.C., CHAPTER 9 TABLES AND EXAMPLES ON CONDUIT FILLS.
- ALL CONDUITS SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. CONDUIT FILL NOT TO EXCEED 40% PER N.E.C.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE CITY OF SAN DIEGO DEPUTY FIRE MARSHAL.
- ALL CABLE NOT IN CONDUIT SHALL BE PLENUM RATED CABLE WHERE REQUIRED TO BE PLENUM RATED.
- FIRE ALARM INSTALLER IN CHARGE OF THIS PROJECT MUST BE "STATE CERTIFIED" WITH THE DIVISION OF APPRENTICESHIP STANDARDS, AND SHALL FURNISH ID CARD UPON REQUEST OF THE SAN DIEGO DEPUTY FIRE MARSHAL.
- THE VOICE INTELLIGIBILITY REQUIREMENTS OF NFPA 72 CHAPTERS 18 AND 24 WILL BE MET.
- AUDIBLE SOUND LEVEL WILL BE AT LEAST 15 dBA ABOVE AMBIENT PER THE REQUIREMENTS OF NFPA 72 SECTION 18.4.3.1.
- TOTAL SOUND PRESSURE LEVELS WILL NOT EXCEED 110 dBA PER THE REQUIREMENTS OF NFPA 72 SECTION 18.4.1.2.
- THE FLASH OF STROBES IN THE SAME FIELD OF VIEW WILL BE SYNCHRONIZED AS REQUIRED IN NFPA 72 SECTION 18.5.4.2.
- DRAWING STORAGE WILL BE PROVIDED NEXT TO THE REQUIRED WORK TABLE.

FIRE STOP DETAIL

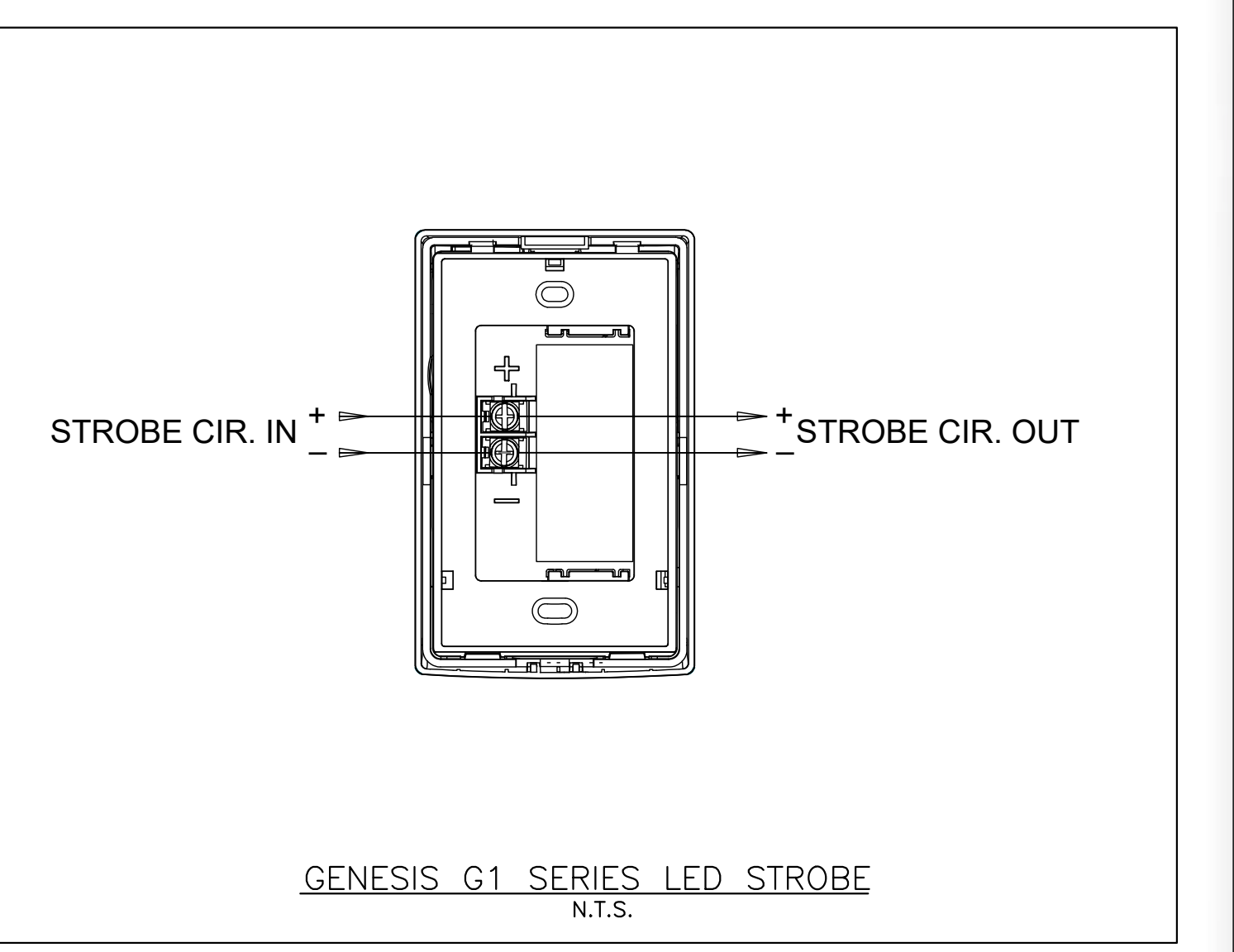
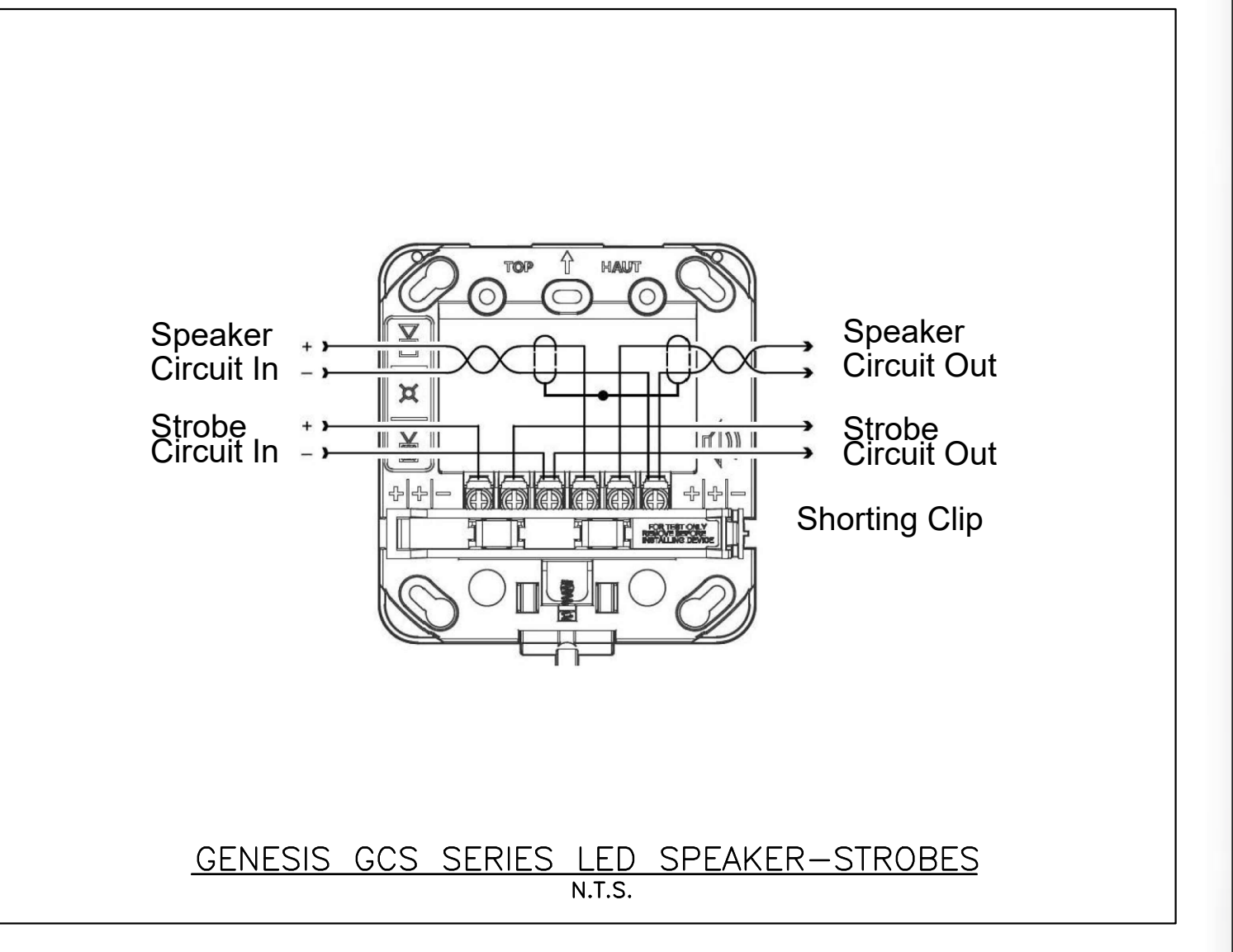
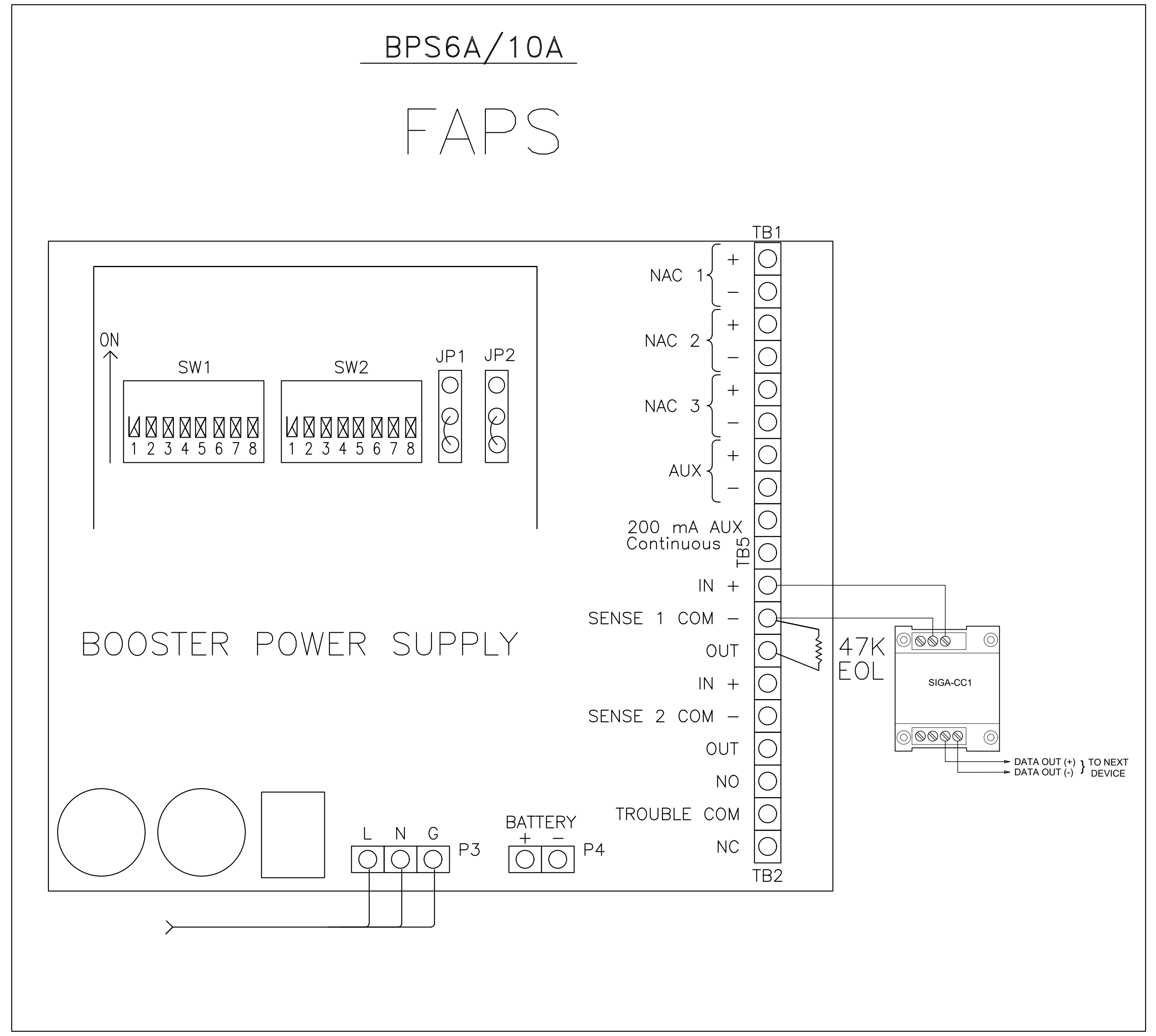
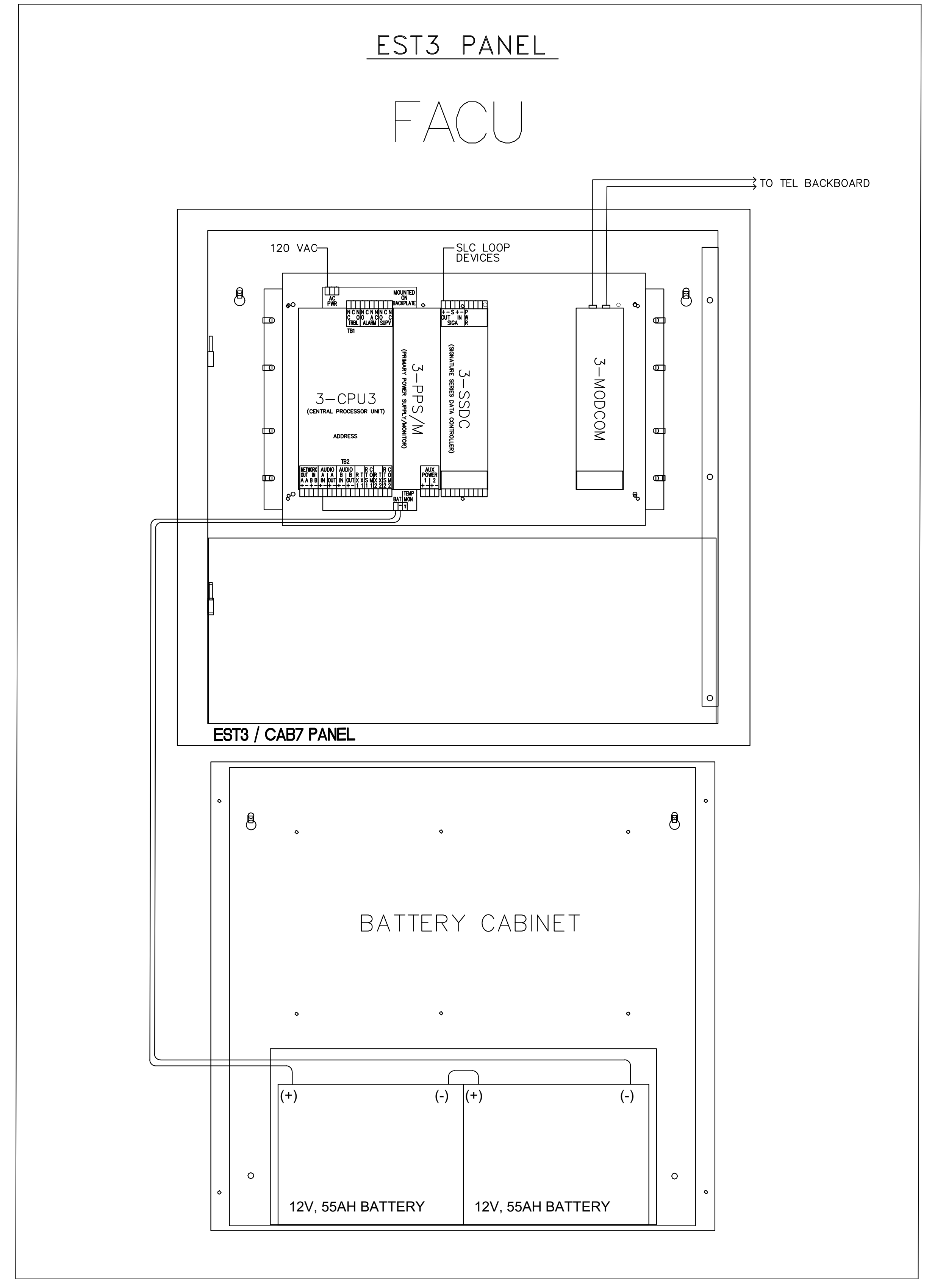
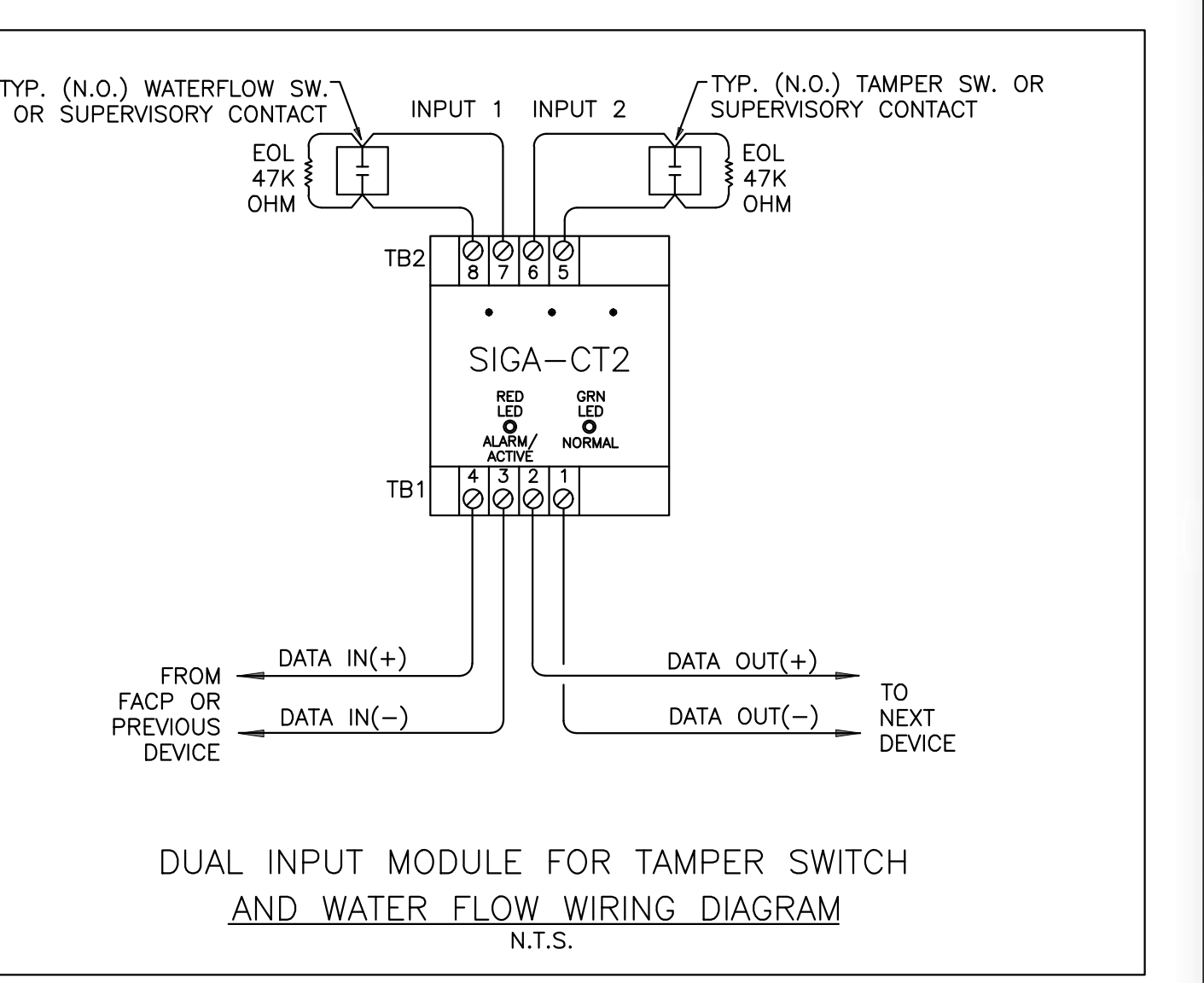
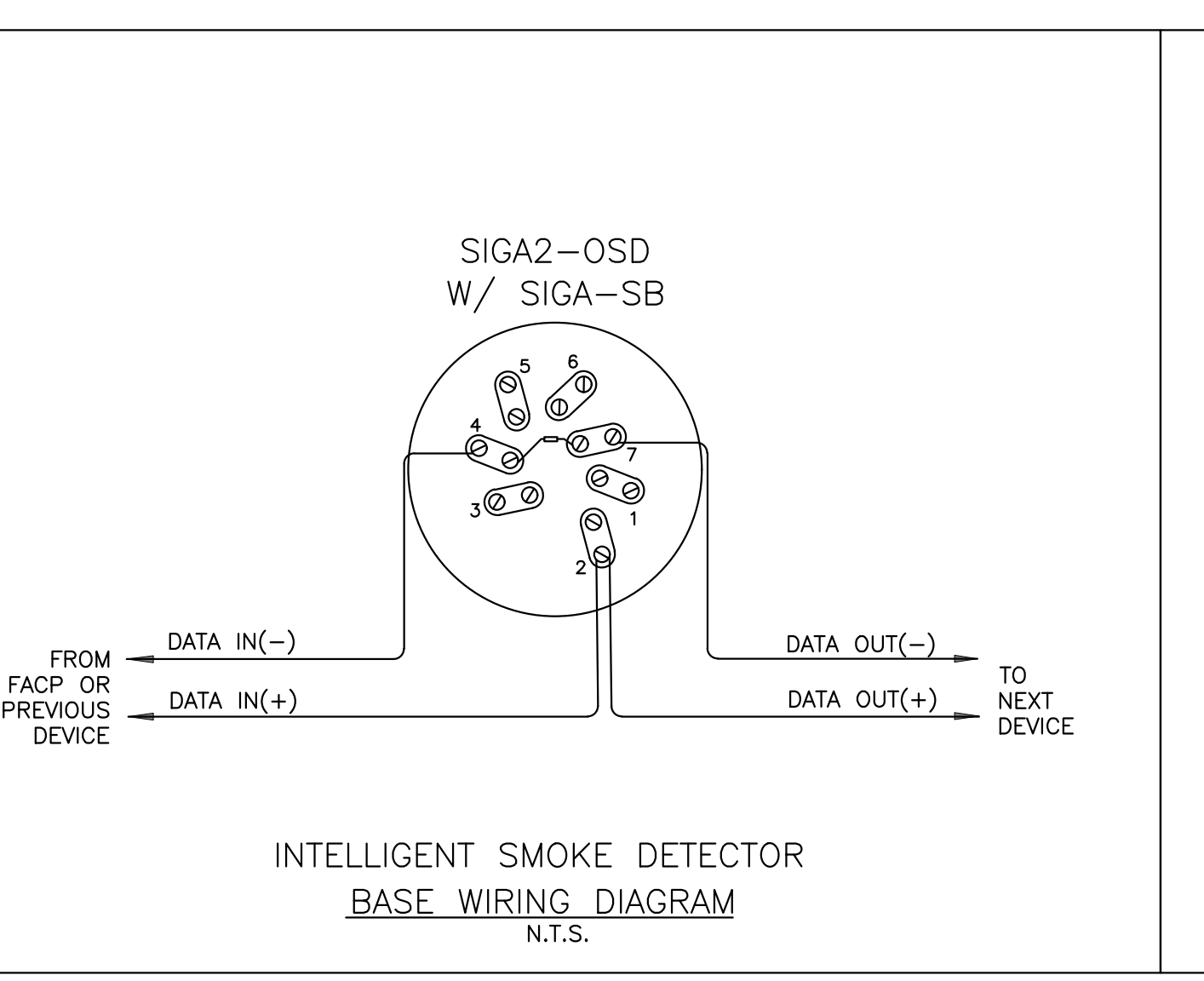
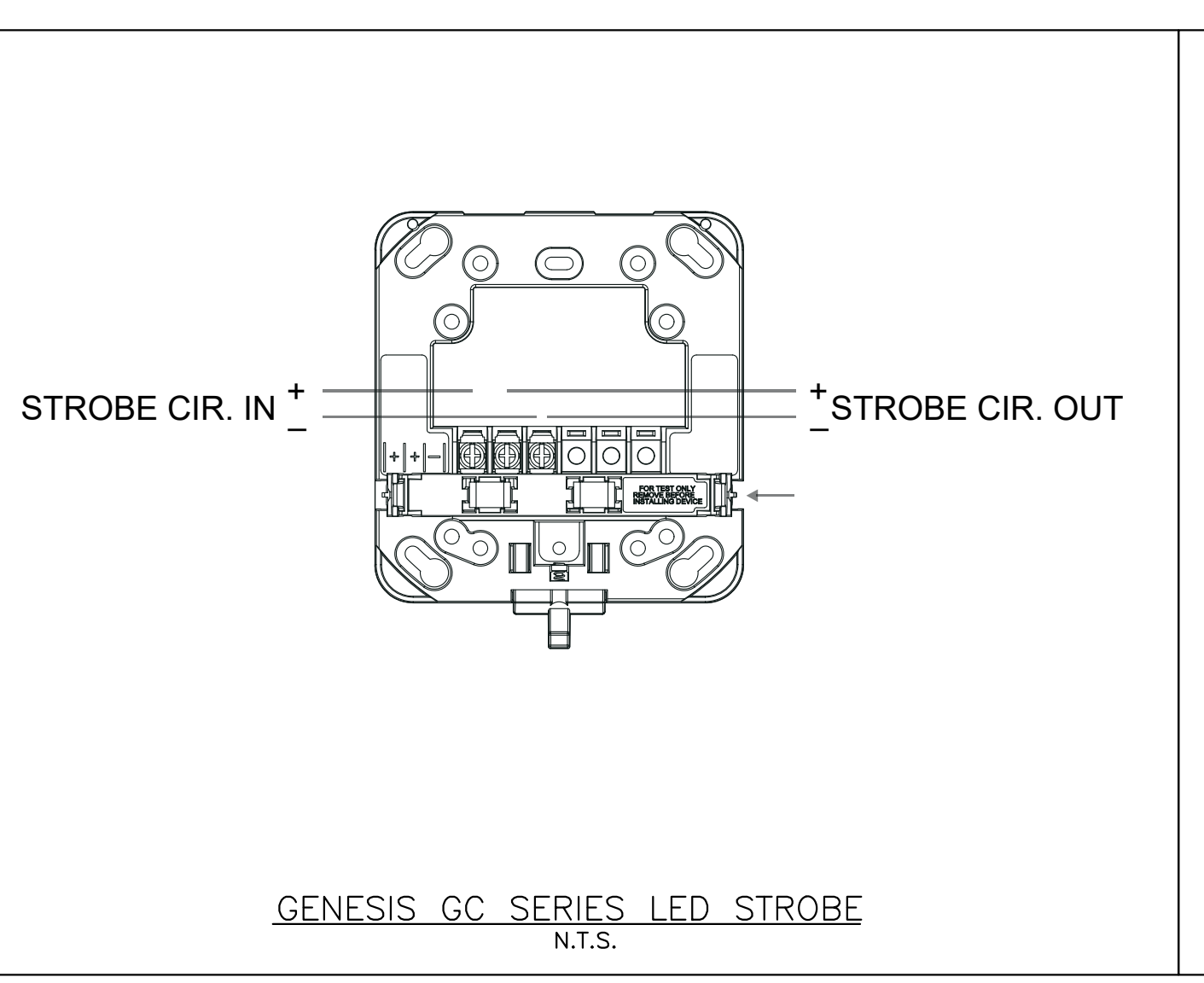
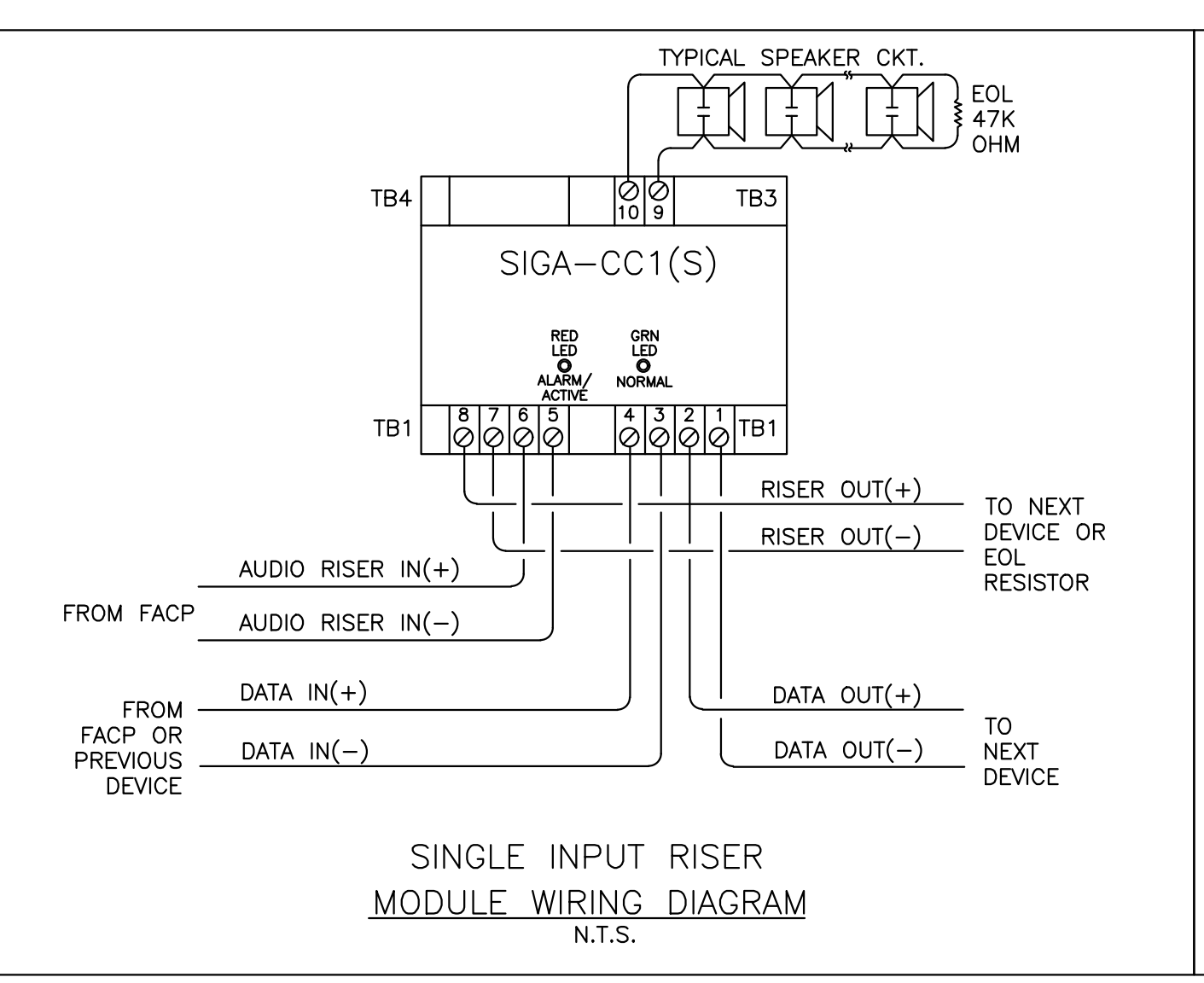
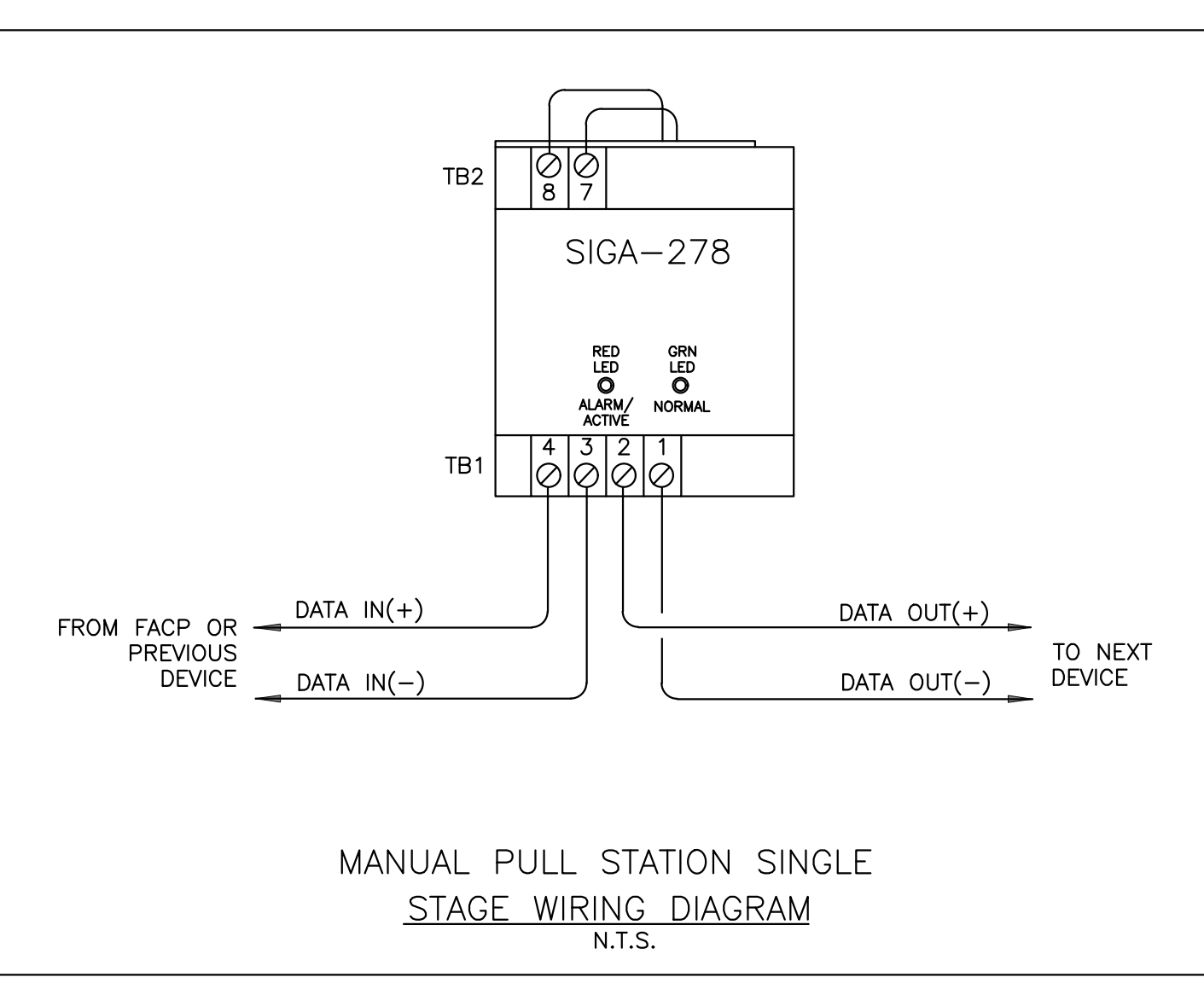
SECTION A-A

SYSTEM NO. WL-3110
F RATING: 1 AND 2 HR (SEE TABLE 7)
 T RATING: 0 HR

- Wall Assembly -- The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual US00 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. O.C. Steel studs to be min 3-1/2 in. wide and spaced max 24 in. O.C.
 - Wallboard, Gypsum -- Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 4-1/2 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Cables -- Max 4 in. diam light bundle of cables installed eccentrically or concentrically in opening. The annular space between the bundled cables and the periphery of the opening to be min. 0 in. (point contact) to a maximum 1/2 in. Cables may or may not be routed through flexible steel conduit with or without vinyl coating. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of cables may be used:
 - Max 1/0 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacket.
 - Max 1/0 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
 - Max 3/0 No. 2/0 AWG (or smaller) aluminum or copper conductor cable with XLPE insulation and PVC jacket.
 - Max 7/0 No. 12 AWG (or smaller) copper conductor cable with PVC insulation and jacket.
 - Max No. 18 AWG RG 6/U coaxial cable with PVC insulation and jacket.
 - Max 3/0 with ground No. 12 AWG (or smaller) NM cable with PVC insulation and jacket.
 - Through Penetrating Product -- Max 3/0 No. 2 AWG (or smaller) aluminum or steel clad Armored Cable* or aluminum or steel clad Metal Clad Cable* with copper conductors. ALFLEX CORP
- Fill, Void or Cavity Materials -- Gasket -- Min 5/8 in. thickness of fill material applied within annulus, flush with each surface of wall. Min 5/8 in. thickness of fill material applied into interstices of cables on both sides of wall.
 MINNESOTA MINING & MFG CO -- CP 25WB --
 *Bearing the UL Classification Marking

MONITORING CONTACT INFORMATION

ALARM SERVICE COMPANY AND SERVICE CENTER : (257057-001)
 GENERAL MONITORING SERVICES, INC
 DBA-GENERAL MONITORING SERVICES
 17951 LIONS CIRCLE
 HUNTINGTON BEACH, CA 92647
 1-800-634-3915
 FILE-VOL. NO. CCN
 S8126-1 UUIFX
 LISTING CATEGORY
 (SIGNAL AND FIRE ALARM EQUIPMENT AND SERVICES)
 (PROTECTIVE SIGNALING SERVICES) CENTRAL STATION
 NOTE:
 THE BUILDING OWNER HAS THE OPTION TO CONTRACT A MONITORING COMPANY OF THEIR CHOICE. IF THE OWNER TO CHOOSES TO CONTRACT A DIFFERENT MONITORING COMPANY, PLANS PERMITS AND SPECIAL DIALERS SHALL BE PROVIDED BY THAT MONITORING COMPANY.



Project: 550 WEST CORR Job # 4221320/4221321

FACP CALCULATION (EX EST 3)

ALL EXISTING AND ADDED COMPONENTS Device or Control	Standby Current in mA			Alarm Current in mA		
	Qty.	Current	Total	Qty.	Current	Total
3-CPU3 (Central Processor Unit)	1	155.000	155.000	1	185.000	185.000
3-LCD (Liquid Crystal Display for 3-CPU3)	1	40.000	40.000	1	42.000	42.000
3-SD2C1 (Dual Signature Drive Ctr) / NOTE 1	2	204.000	408.000	2	238.000	476.000
3-RS485B (Network/Audio Circuit)	1	98.000	98.000	1	98.000	98.000
3-RS232 (Communication Card)	1	58.000	58.000	1	58.000	58.000
3-PPS1M (Primary Power Supply)						
3-MC200W (Modem Communication)	1	60.000	60.000	1	95.000	95.000
3-ASLU4 (Audio Source Unit)	1	80.000	80.000	1	80.000	80.000
3-ZA2A (40 Watt Zone Audio Amp)	5	62.000	310.000	5	2480.000	12400.000
3-1251GY (12 Switches, 1 Green, 1 Yellow)	1	2.000	2.000	1	30.000	30.000
Standby Total			1331.000			Alarm Total 13646.000

Standby: 1331 mA X 24 hrs. = 31.94 A
 Alarm: 13646 mA X 0.25 hrs. = 3.41 A
 Sub Total: 35.36 A
 Surplus: 20% 7.07 A
 Total Requirement: 42.43 Ah

Battery Supplied: 2ea. 12V SEALED LEAD ACID 65 Ah
 BATTERIES WIRED IN SERIES
 Spare: 34.73%
 MAX CHARGING CAPACITY - 65 Ah

NOTE 1 - Current Shown For a Fully Loaded Loop

Point to Point Method

Project Name: 550 West Corridor 14th Fl
 Date: 14/09/2022
 Circuit Number: V14.1
 Area Covered: Corridor

Notes:
 CIRCUIT IS WITHIN LIMITS
 AMPS ARE WITHIN LIMITS
 Wire resistance is doubled in the calculations for two wires (Positive and Negative).
 The voltage calculated to the last device must not be lower than the manufactures listed minimum operating voltage.
 (ie. rated operating voltage 16-33 VDC).

Parameter	Value	Parameter	Value
Nominal System Voltage	20.40	Current	0.176
Minimum Device Voltage	16.00	Distance	370
Minimum Circuit Voltage	16.88	Drop	0.12
End of Line Voltage	20.28	Percent Drop	0.60%

Standard Wire Resistance in Ohms per 1000 feet:
 18-14 Avg = Solid Conductors 18=7.77 16=4.89 14=3.07 12=1.98 10=1.24
 12-10 Avg = Stranded Conductors

Device	Device Number	Device Current	Device Voltage	Drop from previous device	Percent Drop	Device Manufacturer	EST	Device Manufacturer	EST
Device 1	0.022	55	20.36	0.038	0.19%	ELSPSTWC (15)	15	0.022	Not Used
Device 2	0.022	25	20.35	0.054	0.26%	ELSPSTWC (15)	15	0.022	Not Used
Device 3	0.022	40	20.33	0.074	0.37%	ELSPSTWC (15)	15	0.022	Not Used
Device 4	0.022	40	20.31	0.092	0.45%	ELSPSTWC (15)	15	0.022	Not Used
Device 5	0.022	25	20.30	0.101	0.49%	ELSPSTWC (15)	15	0.022	Not Used
Device 6	0.022	40	20.29	0.111	0.54%	ELSPSTWC (15)	15	0.022	Not Used
Ex Device	0.022	25	20.28	0.115	0.57%	ELSPSTWC (15)	15	0.022	Not Used
Device 9	0.022	85	20.28	0.123	0.60%	ELSPSTWC (15)	15	0.022	Not Used
Device 9	0.000	35	20.28	0.123	0.60%	Not Used	0	0.000	Not Used

Totals: 0.176 370 End of Line Voltage 20.28

Project: 550 West Corridor 14th Fl Job Number: 4221846

FAPS-V14 CALCULATION (EX BPS10A) ON 14th Floor

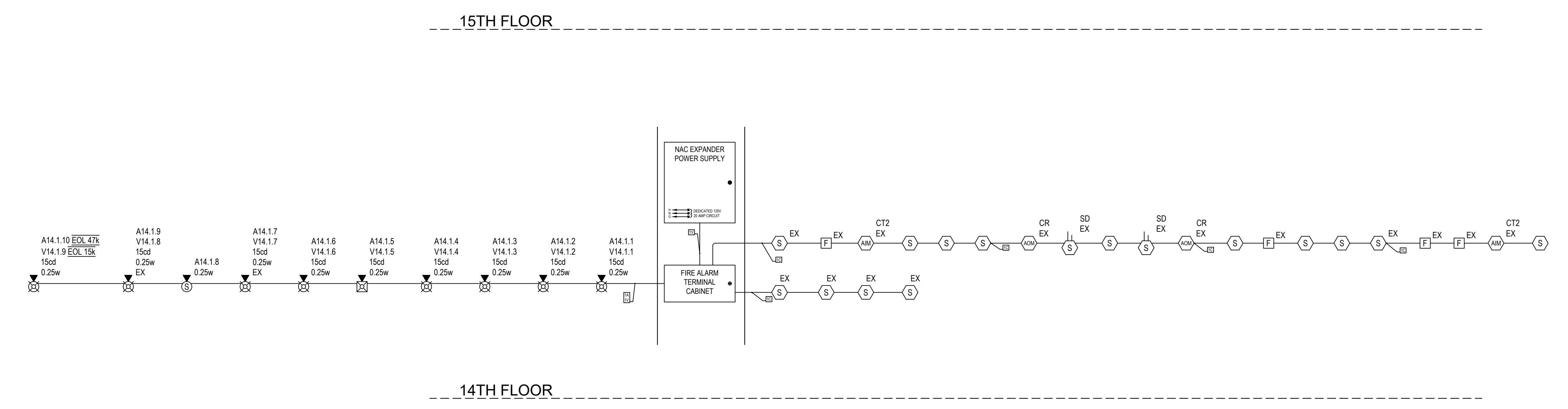
Device or Control	Standby Current in mA			Alarm Current in mA		
	Qty.	Current	Total	Qty.	Current	Total
EX BPS10A (Booster Power Supply)	1	70.000	70.000	1	270.000	270.000
V14.1	1	0.000	0.000	1	176.000	176.000
V14.2	1	0.000	0.000	1	0.000	0.000
V14.3	1	0.000	0.000	1	0.000	0.000
V14.4	1	0.000	0.000	1	0.000	0.000
Standby Total			70.000			Alarm total 446.000

Standby: 70 mA X 24 hrs. = 1.68 Ah
 Alarm: 446 mA X 0.25 hrs. = 0.11 Ah
 Sub Total: 1.79 Ah
 Surplus: 20% 0.36 Ah
 Total Requirement: 2.15 Ah

Battery Supplied: 2ea. 12V SEALED LEAD ACID 7 Ah
 BATTERIES WIRED IN SERIES
 Spare: 69.29%
 MAX CHARGING CAPACITY - 24 Ah

1 CALCULATIONS

NTS



2 RISER DIAGRAM

NTS

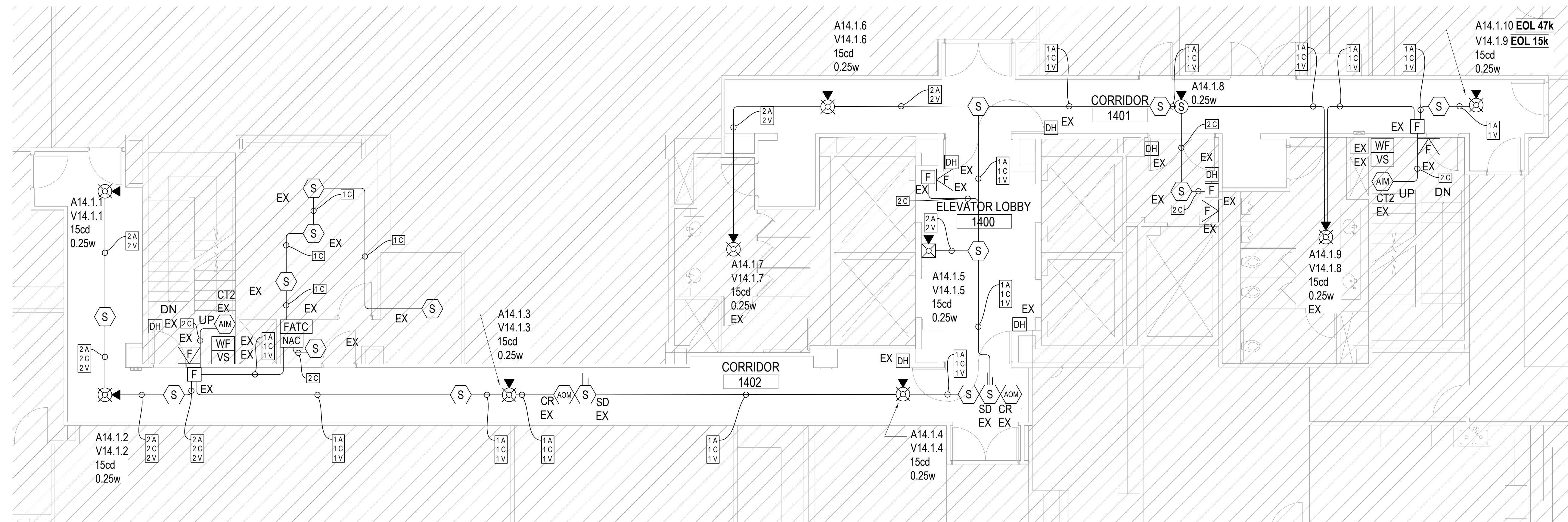
SYMBOL LIST

SYMBOL	DESCRIPTION
[FATC]	EST 3 MODULAR CONTROL PANEL
[NAC]	REMOTE BOOSTER POWER SUPPLY, 10A
[F]	FIRE ALARM PULL STATION
[CT2]	DUAL INPUT MODULE
[CR]	CONTROL RELAY MODULE
[SD]	SUPERDUCT DETECTOR
[OSD]	INTELLIGENT OPTICAL SMOKE DETECTOR
[S]	SPEAKER STROBE, CEILING, WHITE
[S]	SPEAKER, CEILING, WHITE
[DH]	DOOR HOLDER
[V]	FIRE PHONE JACK

NOTE: #CD = Cardella setting

FA CABLE LEGEND

LABEL	AWG	DESCRIPTION
V	12	STROBE CIRCUIT (NAC)
C	16	SIGNAL LINE CIRCUIT (SLC)
A	14	SPEAKER CIRCUIT (AUDIO)



1 FIRE ALARM PLAN - LEVEL 14

