

1. FIRE ALARM SYSTEM SHALL BE INSTALLED AND TESTED IN STRICT ACCORDANCE WITH NFPA 72, 2019 EDITION, NATIONAL FIRE ALARM CODE, NFPA 70, 2017 EDITION, NATIONAL ELECTRICAL CODE AND INTERNATIONAL BUILDING CODE (IBC) 2018 EDITION, AS WELL AS STATE AND LOCAL BUILDING CODES AND STANDARDS.
2. FIRE ALARM CONDUCTORS AND CABLES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH NFPA 70, 2017 EDITION NATIONAL ELECTRICAL CODE AND SPECIFICALLY WITH ARTICLES 760, 770 AND 800, WHERE APPLICABLE. OPTICAL FIBER CABLES SHALL BE PROTECTED AGAINST MECHANICAL INJURY IN ACCORDANCE WITH ARTICLE 760.
3. FIRE ALARM CONDUCTORS AND CABLES SHALL BE INSTALLED IN A HEAT AND WORKMANLIKE MANNER. CONDUCTORS AND CABLES SHALL BE SUPPORTED BY THE BUILDING STRUCTURE IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL BUILDING USE.
4. THE INSTALLING ELECTRICAL CONTRACTOR MUST PROVIDE THE FIRE ALARM CIRCUIT (KELLER FIRE & SAFETY) WITH ACCURATE MARKED UP DRAWINGS SHOWING ALL JUNCTION BOXES, TERMINAL CABINETS, DEVICE LOCATIONS, WIRE ROUTING, ETC. FOR THE USE IN MAKING OF "RECORD DRAWINGS". FINAL PAYMENT WILL NOT BE AUTHORIZED UNTIL THE RECORD DOCUMENTS HAVE BEEN RECEIVED AND APPROVED.
5. CONDUIT ROUTING AND CONDUIT SIZE SHALL BE DETERMINED BY THE CONTRACTOR, IN CONJUNCTION WITH NFPA 70 (NEC), AND INDICATED ON THE RECORD DRAWINGS. CONDUIT FILL SHALL NOT EXCEED 40%.
6. PRIMARY POWER SOURCE (120VAC) TO FACT AND POWER SUPPLIES MUST BE ON A DEDICATED BRANCH CIRCUIT FROM THE EMERGENCY GENERATOR (IF APPLICABLE), WITH DISCONNECTING MEANS MARKED "FIRE ALARM CONTROL CIRCUIT". THE LOCATION OF THE DISCONNECT MUST BE IDENTIFIED AT THE FACT AND ALL POWER SUPPLIES. ALL FIRE ALARM CIRCUIT BREAKERS MUST BE CLEARLY MARKED AND MECHANICALLY SECURED TO PREVENT ANY UNAUTHORIZED TAPCIRCS.
7. DEVICE POLARITY MUST BE OBSERVED ON ALL DC CIRCUITS (SLC, IOC, NAC, AND AUXILIARY POWER).
8. ALL INITIATING AND NOTIFICATION CIRCUIT WIRING MUST BE SUPERSEDED.
9. ALL WIRING, INCLUDING SHIELDS, MUST BE DIRT AND FREE OF SHORTS AND GROUNDS.
10. INITIATING DEVICES SHALL BE SUPPORTED INDEPENDENTLY OF THEIR ATTACHMENT TO FIRE ALARM CIRCUIT CONDUCTORS.
11. FIRE ALARM CIRCUITS SHALL BE IDENTIFIED AT TERMINAL AND JUNCTION LOCATIONS, IN A MANNER THAT WILL PREVENT UNINTENTIONAL INTERFERENCE WITH THE SIGNALING LINE CIRCUIT (SLC) DURING TESTING AND SERVICING (NEC ARTICLE 760-10).
12. SMOKE DETECTORS SHALL BE MOUNTED IN ACCORDANCE WITH NFPA 72. DETECTORS SHALL NOT BE LOCATED IN A DIRECT AIR FLOW NOR LOCATED 18 INCHES OR MORE FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING. FURTHER, DETECTORS SHALL NOT BE INSTALLED WITHIN 1 FOOT OF LIGHT FIXTURES.
13. DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL.
14. ALL FIRE ALARM DEVICES MUST BE INSTALLED IN A PROPER BACK BOX. NO DEVICE SHALL BE INSTALLED WITHOUT A BACK BOX.
15. POWER-LIMITED FIRE ALARM CIRCUIT CONDUCTORS AND CABLES (NEC ARTICLE 760-71) SHALL BE INSTALLED AS FOLLOWS:
 - A. IN RACEWAY OR EXPOSED ON THE SURFACE OF CEILING AND SIDE WALLS OR "FISHED" IN CONCEALED SPACES. CABLE SPACES OR TERMINATIONS SHALL BE MADE IN LISTED FITTINGS, BOXES, ENCLOSURES, FIRE ALARM DEVICES, OR UTILIZATION EQUIPMENT, WHERE INSTALLED EXPOSED. CABLES SHALL BE ADEQUATELY SUPPORTED AND INSTALLED IN SUCH A WAY THAT MAXIMUM PROTECTION AGAINST PHYSICAL DAMAGE IS AFFORDED BY BUILDING CONSTRUCTION SUCH AS BASEBOARDS, DOOR FRAMES, LEDGES, ETC. WHERE LOCATED WITHIN 7 FEET (2.13 METERS) OF THE FLOOR, CABLES SHALL BE SECURELY FASTENED IN AN APPROVED MANNER AT INTERVALS OF NOT MORE THAN 18 INCHES.
 - B. IN METAL RACEWAYS OR RIGID NONMETALLIC CONDUIT WHERE PASSING THROUGH A FLOOR OR WALL TO A HEIGHT OF 7 FEET (2.13 METERS) ABOVE THE FLOOR, UNLESS ADEQUATE PROTECTION CAN BE AFFORDED BY BUILDING CONSTRUCTION SUCH AS DETAILED IN (A) ABOVE, OR UNLESS A EQUIVALENT SOLID GROUND IS PROVIDED.
 - C. IN RIGID METAL CONDUIT, RIGID NONMETALLIC CONDUIT, INTERMEDIATE METAL CONDUIT, OR ELECTRICAL METALLIC TUBING WHERE INSTALLED IN HORIZONTALS. (EXCEPTION: AS PROVIDED IN NEC SECTION 620-71 FOR ELEVATORS AND SIMILAR EQUIPMENT)
16. ALL DEVICES SHALL BE LABELED WITH THEIR ADDRESS OR CIRCUIT NUMBER.
17. POWER-LIMITED CIRCUIT CABLES AND CONDUCTORS SHALL NOT BE PLACED IN ANY CABLE, CABLE TRAY, COMPARTMENT, ENCLOSURE, CUTOLET BOX, RACEWAY, OR SPLITTER FITTING WITH CONDUCTORS OF ELECTRIC LIGHT, POWER, CLASS 1 NONPOWER-LIMITED FIRE ALARM CIRCUIT CONDUCTORS, OR MEDIUM POWER NETWORK-POWER BOARD BAK COMMUNICATIONS CIRCUITS (NEC ARTICLE 760-74).
18. POWER-LIMITED CIRCUIT CONDUCTORS SHALL NOT BE STRAPPED, TAPED OR ATTACHED BY ANY MEANS TO THE EXTERIOR OF ANY CONDUIT OR OTHER RACEWAY AS A MEANS OF SUPPORT.
19. INITIATING DEVICES CIRCUITS (IOC) AND NOTIFICATION APPLIANCE CIRCUITS (NAC), ARE TWO WIRE CLASS "B". NO "T-TAPPING" IS ALLOWED ON ANY OF THESE CIRCUITS.
20. AUXILIARY POWER CIRCUITS ARE TWO WIRE CIRCUITS THAT CAN BE T-TAPPED AS REQUIRED.
21. SIGNALING LINE CIRCUIT (SLC) DESIGNATED AS CLASS "B" ARE TWO WIRE DATA COMMUNICATIONS CIRCUITS. T-TAPPING IS ALLOWED ONLY AT JUNCTION BOXES AND SLC DEVICES, BUT SHALL BE KEPT TO A MINIMUM.
22. SIGNALING LINE CIRCUIT (SLC) DESIGNATED AS CLASS "A" ARE TWO WIRE DATA COMMUNICATIONS CIRCUITS. NO T-TAPPING IS PERMITTED. THE OUTGOING AND RETURN CONDUCTORS OF A CLASS "A" CIRCUIT, EXITING FROM AND RETURNING TO THE CONTROL UNIT, RESPECTIVELY, MUST BE ROUTED SEPARATELY. THE OUTGOING AND RETURN (REDUNDANT) CIRCUIT CONDUCTORS SHALL NOT BE RUN IN THE SAME CABLE ASSEMBLY, ENCLOSURE, OR RACEWAY. THE OUTGOING AND RETURN CIRCUIT CONDUCTORS SHALL BE PERMITTED TO BE RUN IN THE SAME CABLE ASSEMBLY, ENCLOSURE, OR RACEWAY ONLY UNDER THE FOLLOWING CONDITIONS:
 - FOR A DISTANCE OF 10 FEET (3 METERS) WHERE THE OUTGOING AND RETURN CONDUCTORS ENTER OR EXIT THE INITIATING DEVICE, NOTIFICATION APPLIANCE, OR CONTROL UNIT ENCLOSURES.
 - SINGLE CONDUIT/RACEWAY DROPS (UNLIMITED LENGTH) TO INDIVIDUAL DEVICES OR APPLIANCES.
 - SINGLE CONDUIT/RACEWAY DROPS TO MULTIPLE DEVICES OR APPLIANCES INSTALLED WITH A SINGLE RUN NOT EXCEEDING 1000 FEET (302.9 METERS) IN AREA.

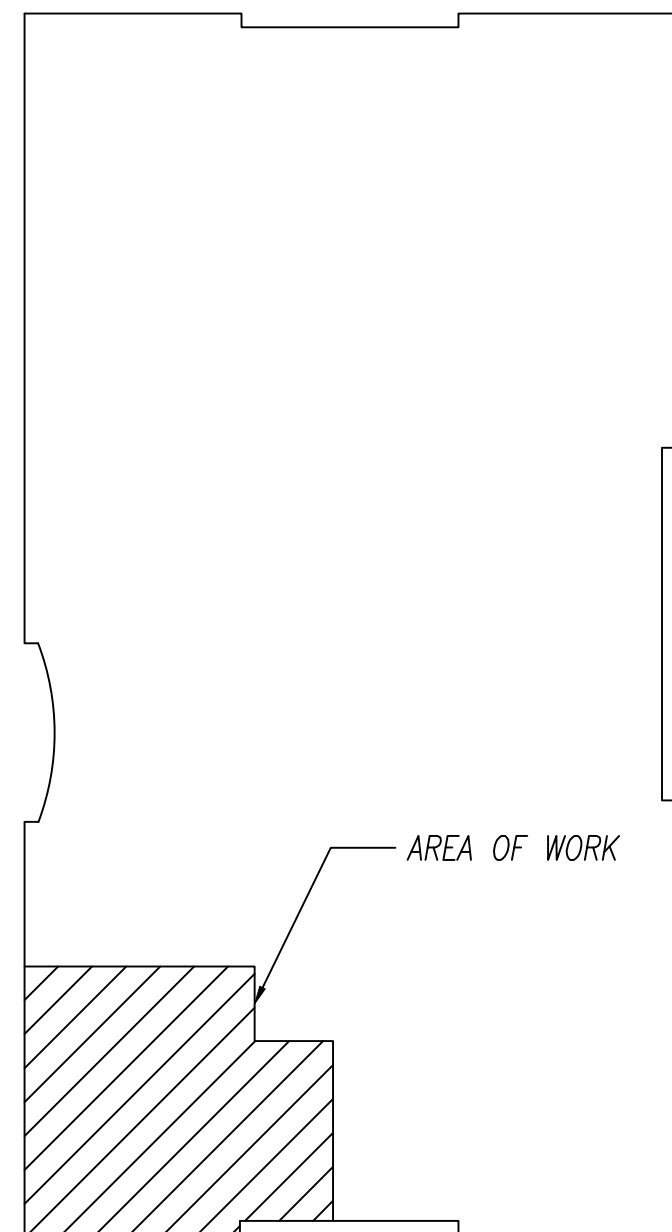
KELLER FIRE AND SAFETY SHALL PROVIDE GAMEDAY MEN'S HEALTH WITH A FIRELITE, FIRE ALARM ADDITION. DRAWINGS ARE BASED ON PROPOSAL DATED 1/3/2024 BY KAVB.

1. DRAWINGS ARE SCHEMATIC BY NATURE AND MAY NOT REFLECT EXACT FIELD LOCATIONS. AT PROJECT CLOSEOUT, THE INSTALLING CONTRACTOR SHALL SUBMIT ONE SET OF RECORD PRINTS HAVING ALL CHANGES NEATLY TRANSFERRED FROM THE FIELD SET TO A NEW SET (USING RED PENCIL). A CLEAN SET OF SHOP DRAWINGS WILL BE PROVIDED FOR THIS PURPOSE. FINAL PAYMENT WILL NOT BE AUTHORIZED UNTIL THE RECORD DOCUMENTS HAVE BEEN RECEIVED AND APPROVED.

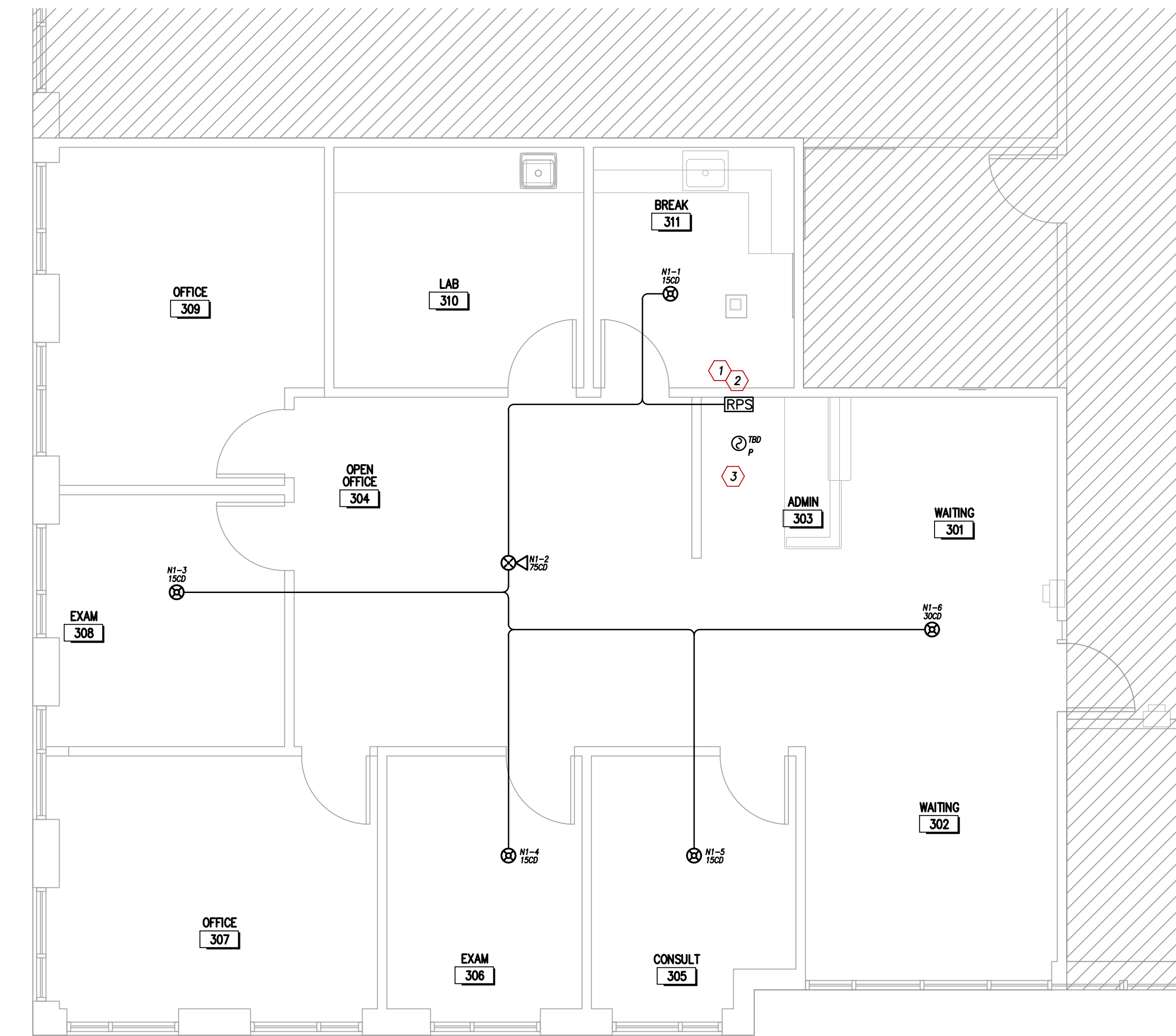
2. EXISTING FIRE SPRINKLER SYSTEM TO REMAIN, UNLESS NOTED OTHERWISE.
3. HATCHED AREA IS NOT IN SCOPE.

1 REMOTE POWER SUPPLY REQUIRES 120VAC DEDICATED BY OTHERS. FIELD VERIFY IF NEW POWER SUPPLY IS REQUIRED AND FINAL LOCATION.

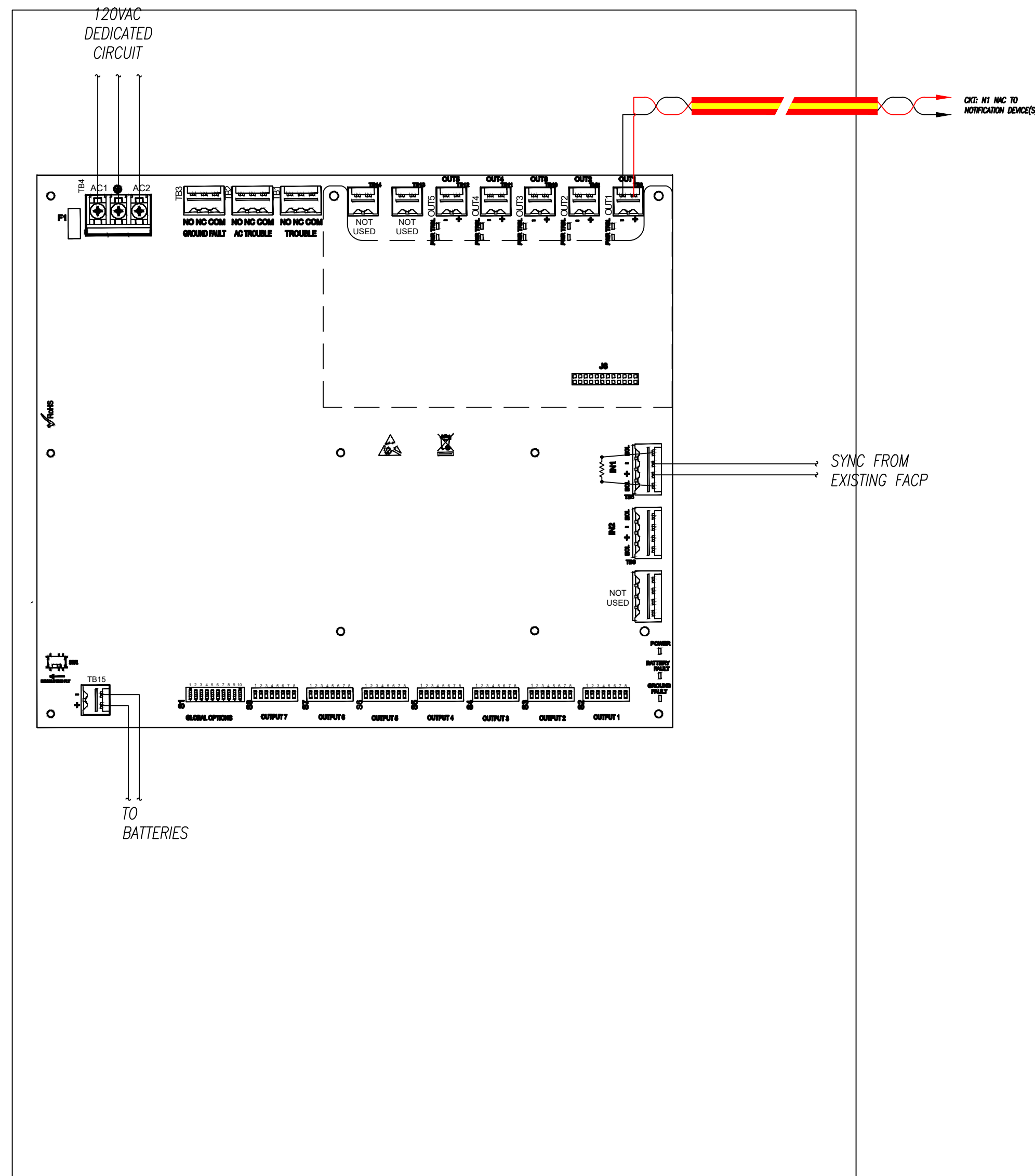
- 2 REMOTE POWER SUPPLY REQUIRES SYNC CIRCUIT FROM NEAREST POWER SUPPLY. FIELD LOCATE AND RECORD ON REDLINED "AS-BUILTS".
- 3 SMOKE DETECTOR REQUIRES CKT. L FROM NEAREST ASSOCIATED DEVICE. FIELD LOCATE NEAREST ASSOCIATED DEVICE AND RECORD ON REDLINED "AS-BUILTS".



SITE MAP: 3RD FLOOR
NTS



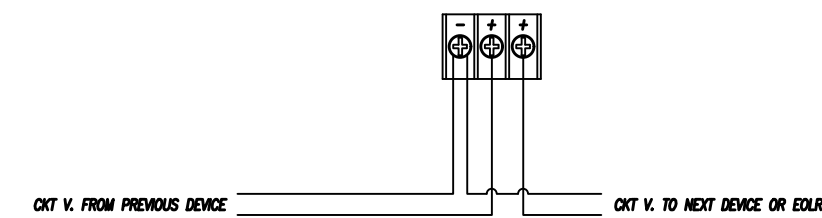
PARTIAL THIRD FLOOR: FIRE ALARM PLAN



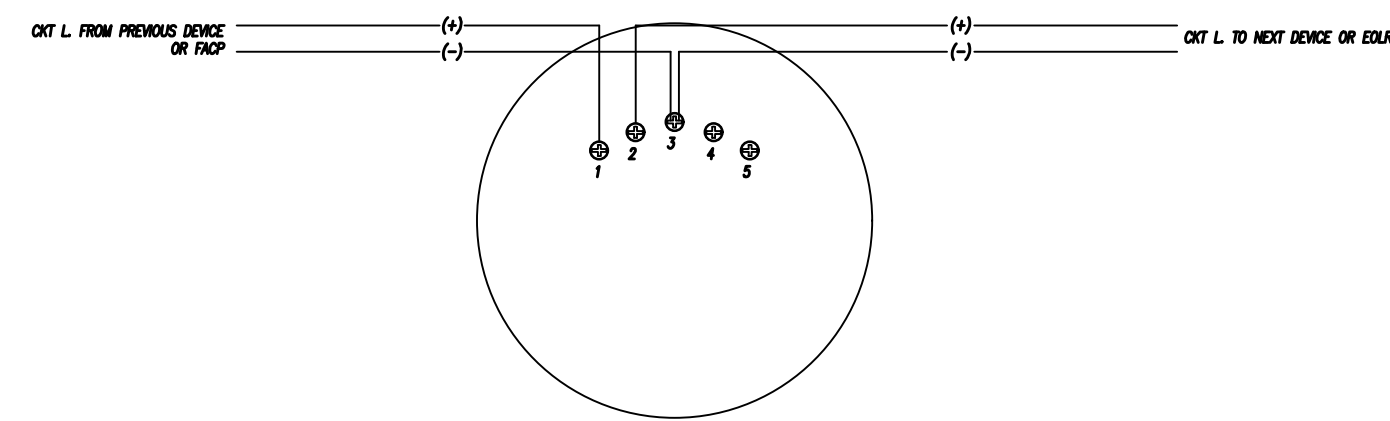
REMOTE POWER SUPPLY WIRING DETAIL

CIRCUIT SCHEDULE			
CIRCUIT	CABLE/WIRE DESCRIPTION	FUNCTION	REMARKS
L	18AWG 2-CONDUCTOR FPLP; WINDY CITY WIRE #762360 (OR EQUIV.)	EX. SIGNALING LINE CIRCUIT	INITIATING DEVICES (RED JACKET, RED STRIPE)
NT	14AWG 2-CONDUCTOR FPLP; WINDY CITY WIRE #767963 (OR EQUIV.)	NOTIFICATION CIRCUIT 1	VISUAL DEVICES (RED JACKET, YELLOW STRIPE)

NAC VOLTAGE DROP CALCULATIONS									
Project Name:		MENS GAMEDAY HEALTH			Date:		1/17/2024		
Project Number:		5-24-0004			Panel:		FLPS6		
Nominal system voltage:		20.4		Min. device voltage:		16			
Circuit Number:		N1							
Area Covered:									
Wire Type:		#14/2 p/b cable (6120u)							
Wire Resistance:		2.43		ohms/1000'		Device		Current Draw	
Circuit Length:		200		feet		15CD STROBE		0.041	
Device Mfg:						30CD STROBE		0.063	
Circuit Output (Amps):		1.5				75CD HORN/SNTR		0.143	
Circuit Results:									
Voltage Drop:		0.35		volts				Subtotal	
End of line Voltage:		20.04		PASS				Current Draw (A)	
Voltage Drop %:		1.76%						4	
Total circuit resistance:		0.972		ohms				1	
Resistance Max:		11.89		ohms				0.063	
Max. Circuit Length:		2,447		feet				1	
						Totals:		6	
								0.370	

[illegible]

NOTIFICATION DEVICE WIRING DETAIL



SMOKE DETECTOR WIRING DETAIL



01/29/2024

GREGORY P.
GLADFELTER PE

10203 MILLSTONE DRIVE, #4112

Gregory Glodtfeier PE assumes design responsibility for this project for only the fire alarm or special hazards discipline. All other drawings should be considered the work of others. Further, drawings of this project are not for construction and are not intended to be used for any architectural plans, sections and elevations, site plans and surveys and other information pertinent to showing the fire alarm or special hazards work which is furnished by others, generally indicated by screened or light type. Gregory Glodtfeier PE assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others or through them on an F/A/S drawing. Gregory Glodtfeier PE assumes no liability for any design of fire alarm or special hazards disciplines contained herein, generally indicated in bold type.

DRAWING NUMBER:		SHEET TITLE:		CUSTOMER:		PROJECT TITLE:		 KELLER FIRE & SAFETY 1801 N. 10TH ST. WYANDOMITE, MISSOURI 64086 TEL: (816) 371-1447 FAX: (816) 371-1448 WWW.KELLERFS.COM — PORTABLE FIRE EXTINGUISHERS — RANGE HOOD SYSTEMS — FIRE ALARM SYSTEMS — CLEAN AGENT SYSTEMS — 24 HOUR SERVICE copyright 2000©		NO		DATE		REVISION		DRAWN		CHKD	
1 of 1 SHEETS		PARTIAL THIRD FLOOR: FIRE ALARM PLAN AND DETAILS		GAMEDAY MEN'S HEALTH 200 NE MISSOURI ROAD, SUITE 303 LEE'S SUMMIT, MO 64086		FIRELITE, FIRE ALARM ADDITION													
DRAWING NUMBER: FA100		SHEET TITLE: PARTIAL THIRD FLOOR: FIRE ALARM PLAN AND DETAILS		CUSTOMER: GAMEDAY MEN'S HEALTH 200 NE MISSOURI ROAD, SUITE 303 LEE'S SUMMIT, MO 64086		PROJECT TITLE: FIRELITE, FIRE ALARM ADDITION		 KELLER FIRE & SAFETY 1801 N. 10TH ST. WYANDOMITE, MISSOURI 64086 TEL: (816) 371-1447 FAX: (816) 371-1448 WWW.KELLERFS.COM — PORTABLE FIRE EXTINGUISHERS — RANGE HOOD SYSTEMS — FIRE ALARM SYSTEMS — CLEAN AGENT SYSTEMS — 24 HOUR SERVICE copyright 2000©		NO		DATE		REVISION		DRAWN		CHKD	
DRAWING NUMBER: FA100		SHEET TITLE: PARTIAL THIRD FLOOR: FIRE ALARM PLAN AND DETAILS		CUSTOMER: GAMEDAY MEN'S HEALTH 200 NE MISSOURI ROAD, SUITE 303 LEE'S SUMMIT, MO 64086		PROJECT TITLE: FIRELITE, FIRE ALARM ADDITION		 KELLER FIRE & SAFETY 1801 N. 10TH ST. WYANDOMITE, MISSOURI 64086 TEL: (816) 371-1447 FAX: (816) 371-1448 WWW.KELLERFS.COM — PORTABLE FIRE EXTINGUISHERS — RANGE HOOD SYSTEMS — FIRE ALARM SYSTEMS — CLEAN AGENT SYSTEMS — 24 HOUR SERVICE copyright 2000©		NO		DATE		REVISION		DRAWN		CHKD	

FILE: 5-24-0004