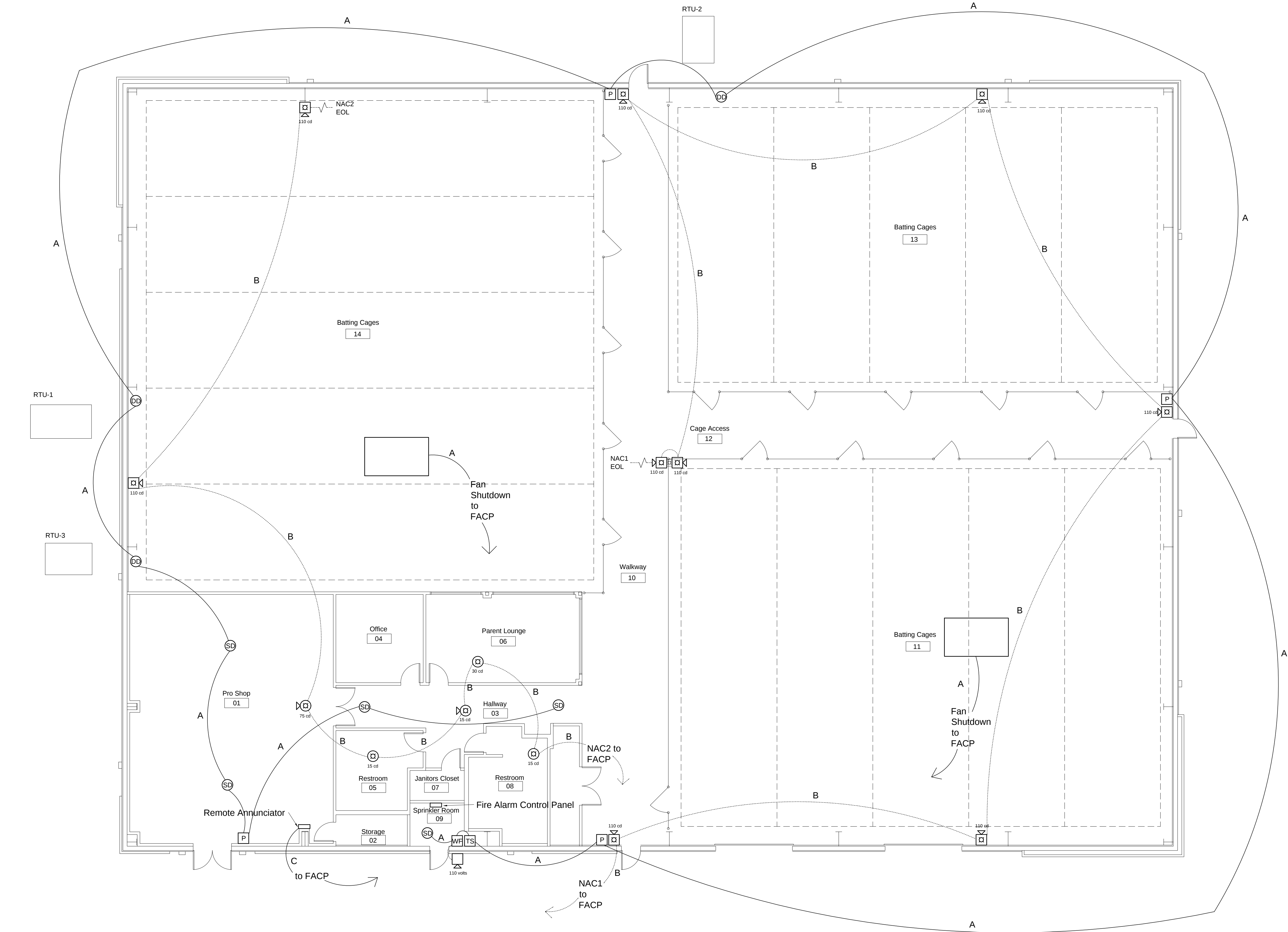




GENERAL NOTES			
All materials used and work performed are to be in accordance with NFPA 72-2016, NEC 2017, IBC and IFC 2018.			
Plan Symbols			
Symbol	Description	Qty	Mounting
P	Pull Station	4	Wall
⊗	Horn / Strobe	2	Ceiling
⊙	Strobe	3	Ceiling
SD	Smoke Detector	5	Ceiling
DD	Duct Detector	3	
⊗	Horn / Strobe	9	Wall
⊗	Exterior Horn / Strobe	1	Wall

Wiring Legend	
A	SLC 16/2
B	NAC 14/2
C	18-4

BATTERY CALCS							
PANEL	PART NUMBER	DESCRIPTION	QTY	STANDBY	TOTAL STAND	ALARM	TOTAL ALARM
PERIPHERALS	IPA-100	FIRE PANEL	1	0.130000	0.130000	0.2	0.2
	UD-2000	DACT	1	0.016000	0.016000	0.023	0.023
	RA-6500R	REMOTE ANNUNCIATOR	1	0.020000	0.020000	0.025	0.025
	PAD200-PD	SMOKE DETECTOR	4	0.003000	0.012000	0.0003	0.0012
	PAD100-PSSA	PULL STATION	4	0.002000	0.008000	0.0002	0.0008
	PAD100-SIM	INPUT MODULE	2	0.002400	0.004800	0.00024	0.00048
	PAD100-RM	RELAY MODULE	4	0.002400	0.009600	0.00024	0.00096
NOTIFICATION	PAD100-DUCT	DUCT DETECTOR	3	0.003000	0.009000	0.065	0.195
		SLC ALARM LED CURRENT					0.036
	NAC 1						
	SRL	STROBE 15CD	0			0.066	0
NAC 1 LOAD	SRL	STROBE 30 CD	0			0.094	0
	P2RL	HORN STROBE 75CD	0			0.121	0
	P2RL Wall	HORN STROBE 110CD	7			0.162	1.134
							1.134
NAC 2 LOAD	NAC 2						
	SRL Ceiling	STROBE 15CD	2			0.066	0.132
	SRL Ceiling	STROBE 30 CD	1			0.094	0.094
	P2RL Ceiling	HORN STROBE 15CD	1			0.079	0.079
NAC 2 LOAD	P2RL Ceiling	HORN STROBE 75CD	1			0.121	0.121
	P2RL Wall	HORN STROBE 110CD	2			0.162	0.324
							0.75
	Starlink		1	0.071000	0.071000	0.2	0.2
TOTAL STANDBY					0.280400		
STANDBY HOURS					24		
AH REQUIRED					6.73		
TOTAL ALARM						2.56644	
MINUTES IN ALARM						5	
AH REQUIRED						0.21386145	
TOTAL COMBINED AH						6.94	
SAFETY MARGIN 20%						8.33215373	
MINIMUM BATTERY						9AH	
BATTERY AH INSTALLED						9AH	

FIRE ALARM PLAN



SYSTEM INPUTS											SYSTEM OUTPUTS										
1	MANUAL PULL STATION	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O					
2	SMOKE DETECTOR																				
3	DUCT DETECTOR (AT HVAC UNIT)																				
4	FIRE ALARM CONTROL PANEL AC POWER FAILURE																				
5	FIRE ALARM CONTROL PANEL LOW BATTERY																				
6	OPEN CIRCUIT																				
7	GROUND FAULT																				
8	NOTIFICATION APPLIANCE CIRCUIT SHORTED																				
9	ALL OTHER TROUBLES																				
10	FIRE SPRINKLER TAMPER SWITCH																				
11	FIRE SPRINKLER WATERFLOW SWITCH																				

SEQUENCE OF OPERATIONS MATRIX



24/7 Fire Protection
1145 NW 850th Rd.
Odessa, MO 64076

Project Fire Alarm System	Sheet FA-1 1 OF 1
Date 1/26/2023	
Scale 1/8" = 1'-0"	
By: Jake Jacobson Certification: NICET Level III 114854	