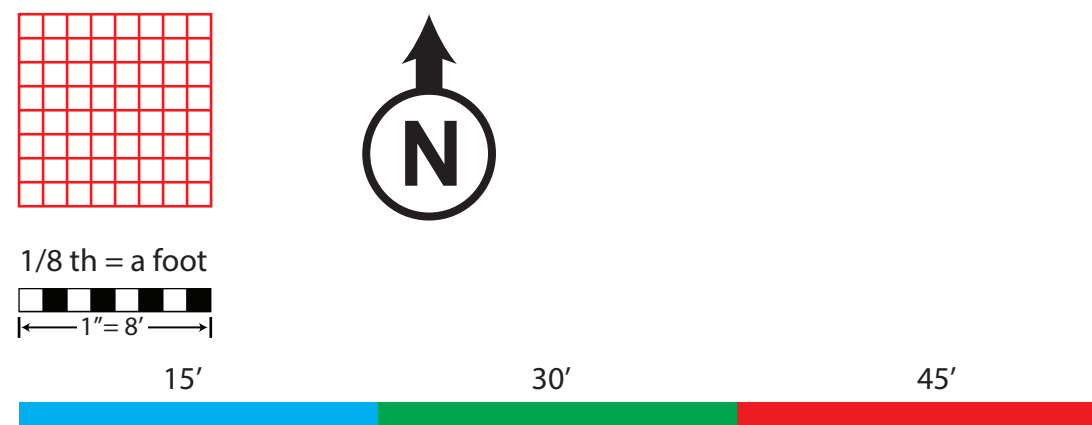


Item	Description
	EXISTING Fire Alarm Control Panel
	Remote Power Supply
	EXISTING Photoelectric Smoke Detector
	Alarm Strobe/Ceiling Mount
	Alarm Horn/Strobe Ceiling Mount



POTTER
The Symbol of Protection
PSN-64
Battery & Voltage Drop
Calculations

Project Name:	1x Plastics	Standby Hours:	24
Installed By:	Fire Alarm Solutions	Alarm Min:	5
Designed By:	Fire Alarm Solutions	Efficiency Factor:	20%
Date:	12/12/2024	NAC Source Voltage:	24

Model #:	PSN-64	Max Panel Current (amps):	6
Panel ID:			
Location:	Break Room		

User assumes all responsibility to ensure the quantity and current draw values in this worksheet are accurate and as submitted.

Panel	Description	Class	Standby (amps)	Alarm (amps)	Total	
1	NAC Power Expander	0.075	0.075	0.075	0.075	
NAC Circuits (See NAC Configuration below)						
Out	Use	Description	Class	Standby (amps)	Alarm (amps)	Total
1	Notification	Class B	0.00000	0.00000	0.28000	
2	Notification	Class B	0.00000	0.00000	0.35800	
3		Class B	0.00000	0.00000	0.00000	
4		Class B	0.00000	0.00000	0.00000	
AUX			0.00000	0.00000	0.00000	
NAC Standby:			0.00000	NAC Alarm:	0.64700	

Battery Calculation Summary		Standby (amps)	Alarm (amps)
Panel Current:	0.07500		0.67500
NAC Circuit Current:	0.00000		0.64700
Total Standby:	0.07500	Total Alarm:	0.67500
Standby Hours:	24	Alarm Min:	5
AH Required:	1.80	AH Required:	0.07
Total Combined Standby & Alarm Amperes Required:	1.87	Safety Margin:	20%
Required Battery Amperes:	2.24		
Battery Amperes Provided:	7Ah		

NAC Circuit Configuration & Voltage Drop
1x Plastics
12/12/2024

NAC 1		MAX Circuit Current (amps):	3	Source Voltage Used (VDC):	24
Class:	Class B	Usage:	Notification	Description:	
Wire Type:	#14 Solid	Ohms/1000ft	3.75	Length 3-Way	100
Actual Ohms	0.375	Min Load (amps)	0.200	Volts @ EOL	23.82
Min Volts Req'd	16				

Qty	Lookup Type	Description	Standby (amps)	Alarm (amps)	Total
4	User Defined	System Sensor S1 (15cfd)	0.000000	0.000000	0.018000
1	User Defined	System Sensor P21 (10cfd)	0.000000	0.000000	0.018000
1	User Defined	System Sensor S1 (10cfd)	0.000000	0.000000	0.012000
1	User Defined	System Sensor S1 (75cfd)	0.000000	0.000000	0.070000
1	User Defined	System Sensor P21 (75cfd)	0.000000	0.000000	0.087000
Total Standby:			0.00000	Total Alarm:	0.19500

NAC 2		MAX Circuit Current (amps):	3	Source Voltage Used (VDC):	24
Class:	Class B	Usage:	Notification	Description:	
Wire Type:	#14 Solid	Ohms/1000ft	3.19	Length 3-Way	300
Actual Ohms	0.957	Min Load (amps)	0.318	Volts @ EOL	23.11
Min Volts Req'd	16				

Qty	Lookup Type	Description	Standby (amps)	Alarm (amps)	Total
1	User Defined	System Sensor S1 (10cfd)	0.000000	0.000000	0.022000
1	User Defined	System Sensor S1 (75cfd)	0.000000	0.000000	0.070000
2	User Defined	System Sensor S1 (75cfd)	0.000000	0.000000	0.087000
1	User Defined	System Sensor P21 (110cfd)	0.000000	0.000000	0.093000
Total Standby:			0.00000	Total Alarm:	0.19200

CONSTRUCTION TYPE: II-B
OCCUPANCY TYPE: S1-B
LEVELS: 1
TOTAL SQUARE FOOTAGE: 10,537
Central Station Service-Alarm Central

This system designed and installed according to NFPA 72 2019 - IBC 2018 & IFC 2018 SECTION 907

BUILDING IS 100% SPRINKLED

Fire Alarm Solutions
3150 MERCIER SUITE 520
KANSAS CITY, MO 64111
816-753-4660

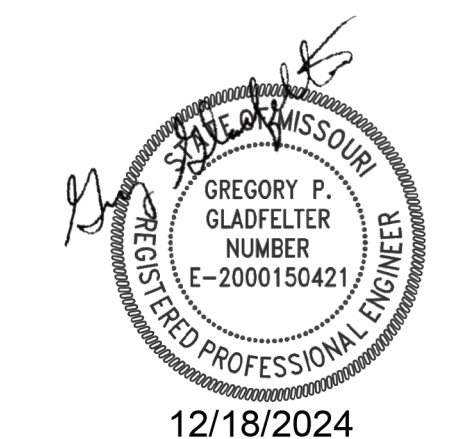
Date:	12/12/2024		
Job:	1X PLASTIC		
Drawing:	1.0	Sheet	1 of 1
Scale:	1/8inch = 1foot		

Description:
TENANT FINISH

These drawings are the intellectual property and actual property of Fire Alarm Solutions and/or Kennycos Industries, Inc. It is submitted in confidence and is not to be disclosed or used without our expressed written consent.

GREGORY P. GLADFELTER PE
10233 MILLSTONE DRIVE, #4112
LENEXA, KS 66220

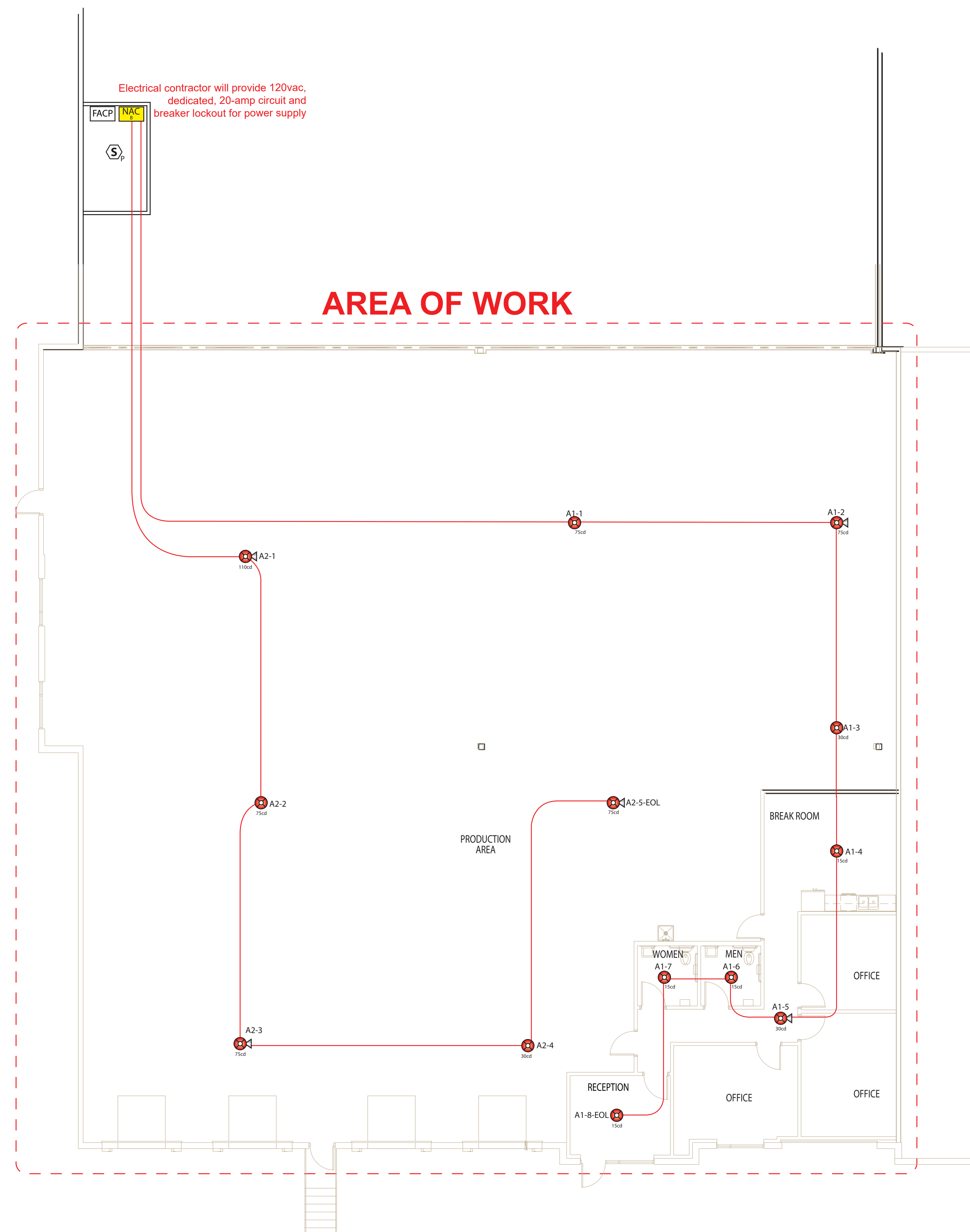
Gregory Gladfelter PE assumes design responsibility for this project for only the fire alarm discipline. All other drawings should be reviewed and stamped with the proper drawings in the project call their own drawings. Information including but not limited to architectural plans, sections and elevations, site plans and surveys and other information pertinent to drawing the fire alarm work which is furnished by others, generally indicated as provided on right. Gregory Gladfelter PE assumes no responsibility or liability for the accuracy or regulatory compliance for work prepared by others even though shown on FA drawings. Gregory Gladfelter PE assumes responsibility only for the design of the alarm discipline contained herein, generally indicated in brown type.



AHJ SEAL

1X PLASTICS
2700 NE McBaine Drive
Lee's Summit,
Missouri 64064

FIRE ALARM PLAN
FA 1.0



RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri
01/02/2025