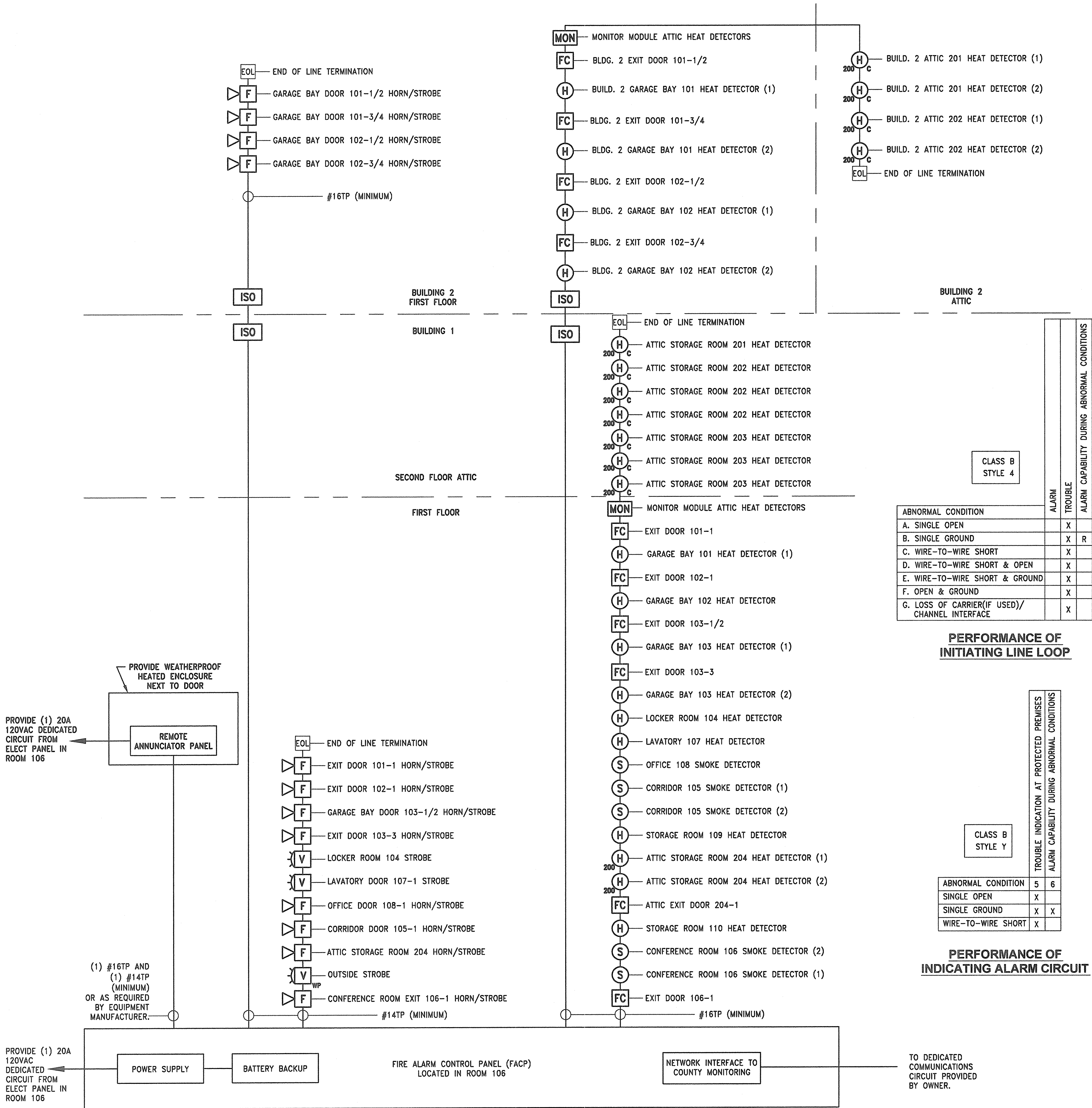


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FIRE ALARM SYSTEM RISER NOTES:

1. THIS RISER DIAGRAM IS BASED ON A SIEMENS BUILDING TECHNOLOGIES XLS-250 FIREFINDER FIRE ALARM CONTROL PANEL OR APPROVED EQUAL. IT IS A REPRESENTATION OF THE INTENDED SYSTEM FOR THIS PROJECT. SEE THE FLOOR PLANS FOR EXACT QUANTITIES AND LOCATIONS OF FIELD EQUIPMENT. SEE THE PROJECT SPECIFICATIONS FOR PERFORMANCE AND COMPLIANCE REQUIREMENTS. QUANTITY AND SIZE OF CONDUCTORS TO BE DETERMINED BY FIRE ALARM SYSTEM SUPPLIER.
2. PROVIDE AUXILIARY FIRE ALARM SIGNAL PANEL(S) W/ BATTERY BACKUP AS REQUIRED TO SUPPORT NOTIFICATION APPLIANCE LOADS.
3. ALL WIRING REQUIREMENTS SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL INSTALLED COMPONENTS TO FULLY COMPLY WITH APPLICABLE NFPA 72 REQUIREMENTS, LOCAL AND STATE CODES.
5. PROVIDE END OF LINE RESISTORS AS NECESSARY.
6. PROVIDE ADDRESSABLE MONITORING AND CONTROL MODULES AS RECOMMENDED BY FIRE ALARM SYSTEM SUPPLIER.
7. ALL ADDRESSABLE SLC'S SHALL BE NFPA 72 CLASS B, STYLE 4.
8. ALL NOTIFICATION NAC'S SHALL BE NFPA 72 CLASS B, STYLE Y.
9. STROBE CANDELAS MUST BE SIZED PER NFPA 72 REQUIREMENTS.
10. AUDIBLE NOTIFICATION DEVICES SHALL PROVIDE SOUND LEVEL AT LEAST 15dB ABOVE AMBIENT NOISE LEVELS.
11. ALL PANEL BATTERY BACKUP SHALL BE SIZED AT 150% OF 24HR STANDBY & 5 MINUTES OF ALARM.
12. A COMPLETE SET OF FIRE ALARM PRODUCT CUTSHEETS, FIRE ALARM SHOP DRAWINGS, AND BATTERY/ VOLTAGE/ LOAD CALCULATIONS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL ENGAGE THE SERVICES OF THE COUNTY FIRE ALARM VENDOR FOR PROGRAMMING AND CONNECTION TO THE COUNTY WIDE NETWORK.
14. SEE SHEET FA-100 FOR EQUIPMENT LEGEND.

ABNORMAL CONDITION		ALARM	TROUBLE	ALARM CAPABILITY DURING ABNORMAL CONDITIONS
A. SINGLE OPEN		X		
B. SINGLE GROUND		X	R	
C. WIRE-TO-WIRE SHORT		X		
D. WIRE-TO-WIRE SHORT & OPEN		X		
E. WIRE-TO-WIRE SHORT & GROUND		X		
F. OPEN & GROUND		X		
G. LOSS OF CARRIER(IF USED)/ CHANNEL INTERFACE		X		

PERFORMANCE OF
INITIATING LINE LOOP

ABNORMAL CONDITION		5	6
SINGLE OPEN		X	
SINGLE GROUND		X	X
WIRE-TO-WIRE SHORT		X	

PERFORMANCE OF
INDICATING ALARM CIRCUIT

SYSTEM INPUTS

		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	ANY MANUAL PULL BOX - BLDG. 1	●	●					●		●		●	●			●	1
2	ANY HEAT DETECTOR - BLDG. 1	●	●					●		●		●	●			●	2
3	ANY SMOKE DETECTOR - BLDG. 1	●	●					●		●		●	●			●	3
4	ANY MANUAL PULL BOX - BLDG. 2	●	●						●		●	●	●			●	4
5	ANY HEAT DETECTOR - BLDG. 2	●	●						●		●	●	●			●	5
6	ANY SMOKE DETECTOR - BLDG. 2	●	●						●		●	●	●			●	6
7	FIRE PANEL AC POWER LOSS					●	●								●		7
8	LOW BATTERY VOLTAGE					●	●								●		8
9	OPEN CIRCUIT					●	●								●		9
10	GROUND FAULT					●	●								●		10
11	NOTIFICATION APPLIANCE SHORT					●	●								●		11
12	COMMUNICATION NETWORK FAILURE					●	●								●		12

SYSTEM OUTPUTS

CONTROL PANEL ANNUNCIATION				NOTIFICATION				MISC.			
ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE COMMON SUPERVISORY SIGNAL	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE COMMON TROUBLE SIGNAL	ACTIVATE BUILDING 1 ZONE ALARM SIGNAL INDICATOR	ACTIVATE BUILDING 2 ZONE ALARM SIGNAL INDICATOR	DISPLAY/PRINT CHANGE OF STATUS	TRANSMIT FIRE SIGNAL TO NETWORK COMMAND CENTER	TRANSMIT SUPERVISORY SIGNAL TO NETWORK COMMAND CENTER	ACTIVATE EXTERIOR STROBE AT FIRE DEPT. RESPONSE POINT

APPROVED:

Richard A. Alaimo
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 13195

REVISIONS	DATE	BY

ALAIMO GROUP
Consulting Engineers
NJDCA 24GA27988400
200 HIGH STREET
2 MARKET STREET
MOUNT HOLLY, N.J.
PATERSON, N.J.

**FIRE PROTECTION IMPROVEMENTS
VARIOUS PARK MAINTENANCE BUILDINGS**

**ASH BROOK GOLF COURSE
OFFICE AND GARAGE BUILDINGS
FIRE ALARM SYSTEM RISER DIAGRAM**

SCALE: NONE

CLIENT:
COUNTY OF UNION

PROJECT LOCATION:
RAHWAY, SCOTCH PLAINS,
PLAINFIELD
UNION COUNTY
NEW JERSEY

RAA PROJECT NO.:
A-0530-0017-003
PROJECT NO.:
2010-026

DATE:
APR. 2013
DESIGNED BY:
SDR/PPM
DRAWN BY:
SDR/PPM
CHECKED BY:

SHEET
FA-203
FILE NO.: