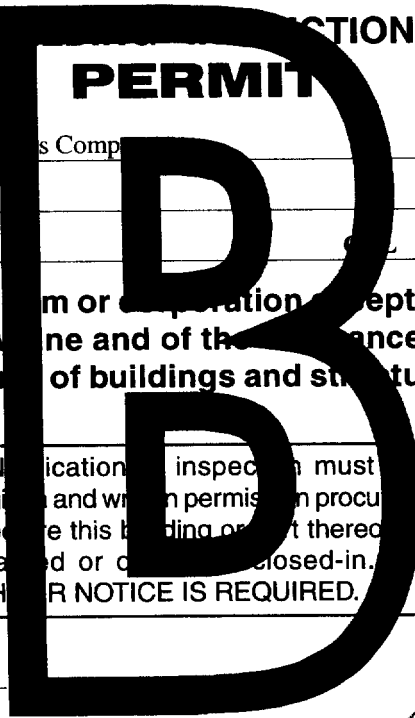


DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

BUILDING INSPECTION

PERMIT ISSUED
Permit Number: 050252
MAR 16 2005
CITY OF PORTLAND



This is to certify that MERCY HOSPITAL /ES Buildings Comp

is permission to install Fire Alarm System

at 148 STATE ST

045 C000001

Provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is entered or occupied. **HEAVY NOTICE IS REQUIRED.**

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [Signature]

Health Dept. _____

Appeal Board _____

Other _____

DepartmentName

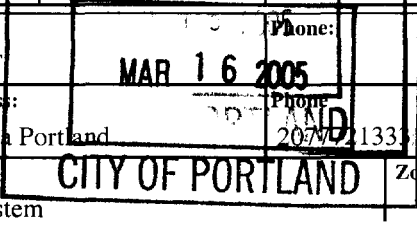
[Signature] 3/15/05
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-0232	Issue Date:	CBL: C006001
-----------------------	-------------	-----------------



Location of Construction: 148 STATE ST	Owner Name: MERCY HOSPITAL	Owner Address: 144 STATE ST	Phone:
Business Name:	Contractor Name: ES Boulos Company	Contractor Address: One Canal Plaza Portland	Phone: 207/721-1333
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone:

Past Use: Hospital	Proposed Use: Hospital/ install Fire Alarm System	Permit Fee: \$2,811.00	Cost of Work: \$310,000.00	CEO District: 2
-----------------------	--	---------------------------	-------------------------------	--------------------

Proposed Project Description: install Fire Alarm System	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>ALARM</i> Type: <i>3/15/05</i>
	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: Idobson	Date Applied For: 03/08/2005	Zoning Approval
-----------------------------	---------------------------------	------------------------

<p>1.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: _____</p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p>Historic Preservation</p> <p><input type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>
---	--	--	--

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-0232	Date Applied For: 03/08/2005	CBL: 045 C006001
------------------------------	--	----------------------------

Location of Construction: 148 STATE ST	Owner Name: MERCY HOSPITAL	Owner Address: 144 STATE ST	Phone:
Business Name:	Contractor Name: ES Boulos Company	Contractor Address: One Canal Plaza Portland	Phone (207) 772-1333
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Hospital/ install Fire Alarm System	Proposed Project Description: install Fire Alarm System
---	---

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 03/15/2005

Note: **Ok to Issue:**

- 1) Must comply w/NFPA 70 and 72

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Lt. MacDougal **Approval Date:** 03/14/2005

Note: additional requirements have been submitted to the electrical contractor from E.R. Fields **Ok to Issue:**

- 1) the fire alarm system shall be tested to NFPA 72 standards and the results shall be submitted to the Portland Fire Department
- 2) the fire alarm system shall be installed in accordance with NFPA 72 standards

Comments:

3/9/2005-Idobson: Informed contractor (Russell) at counter that we would need PDF LJD

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

			<u>Hospital</u>		
Total Square Footage of Proposed Structure			Square Footage of Lot		
Tax Assessor's Chart, Block & Lot		Owner:		Telephone:	
City#	Block#	Lot#	<u>Mercy Hospital</u>		
Lessee/Buyer's Name (If Applicable)			Applicant name, address & telephone:		Cost Of Work: \$ <u>310,000</u>


Current use: Hospital

If the location is currently vacant, what was prior use: _____

Approximately how long has it been vacant: _____

Proposed use: EMERGENCY FIRE ALARM SYSTEM

Project description: New FA System



Contractor's name, address & telephone: _____

Who should we contact when the permit is ready: ES Boulos

Mailing address: 45 BRADLEY DRIVE WESTBROOK, ME
464-3706

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 464-3706

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>Russell Chisley</u>	Date: <u>3/8/05</u>
--	---------------------

This is NOT a permit, you may not commence ANY work until the permit is issued. If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Footing/Building Location Inspection:** Prior to pouring concrete
- Re-Bar Schedule Inspection:** Prior to pouring concrete
- Foundation Inspection:** Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling
- Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERTIFICATE OF OCCUPANCIES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED

Signature of Applicant/Designee

Date

Signature of Inspections Official

Date

CBL: 045 C006 Building Permit #:

05 0237

Call w/final

Cert. of Insp By

Fire Alarm Co.

& PDF of 11x17

File 3/21/05

E.S. Boulos Company

Integrated Power and Building Technologies

Corporate Office

45 Bradley Drive
Westbrook, ME 04092
Tele: (207)464-3706
Fax: (207)464-1833

Utility/Industrial Office

70 Commercial Street
Lewiston, ME 04240
Tele: (207)784-0906
Fax: (207)784-9426

Letter of Transmittal

To: Lt. Gaylan W. McDougall
Portland Fire Department
380 Congress Street
Portland, ME 04101
Ph: (207)874-8405 Fax: (207)874-8410

Transmittal #: 16
Date: 3/18/2005
Job: MHFA04-101 Mercy Hospital New Fire Alarm

Subject: Record copies of Fire Alarm plans at Mercy Hospital for Building Permit

- WE ARE SENDING YOU**
- | | | | |
|--|---|---|----------------------------------|
| <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via | None the following items: | |
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints | <input checked="" type="checkbox"/> Plans | <input type="checkbox"/> Samples |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order | <input type="checkbox"/> Specifications | <input type="checkbox"/> Other |

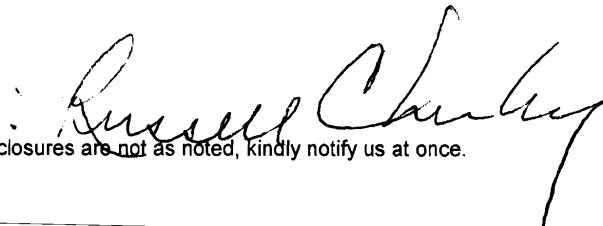
Document Type	Copies	Date	No.	Description
Drawing	1	3/16/05	FA-1	RISER AND DETAILS
Drawing	1	3/16/05	FA-2	LOWER LEVEL 2 PLAN
Drawing	1	3/16/05	FA-3	LOWER LEVEL 1 PLAN
Drawing	1	3/16/05	FA-4	FIRST FLOOR PLAN
Drawing	1	3/16/05	FA-5	SECOND FLOOR PLAN
Drawing	1	3/16/05	FA-6	THIRD FLOOR PLAN
Drawing	1	3/16/05	FA-7	FOURTH FLOOR PLAN
Drawing	1	3/16/05	FA-8	FIFTH FLOOR PLAN
Drawing	1	3/16/05	FA-9	SIXTH FLOOR PLAN
Drawing	1	3/16/05	FA-10	ROOF PLAN

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit ___ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return ___ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other | |
| <input type="checkbox"/> FOR BIDS DUE | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

Remarks:

Copy To:


 If enclosures are not as noted, kindly notify us at once.



CITY OF PORTLAND, MAINE
Department of Building Inspections

20

Received from _____

Location of Work _____

Cost of Construction \$ _____

Permit Fee \$ _____

Building (IL) ____ Plumbing (I5) ____ Electrical (I2) ____ Site Plan (U2) ____

Other _____

CBL: _____

Check #: _____

Total Collected \$ _____

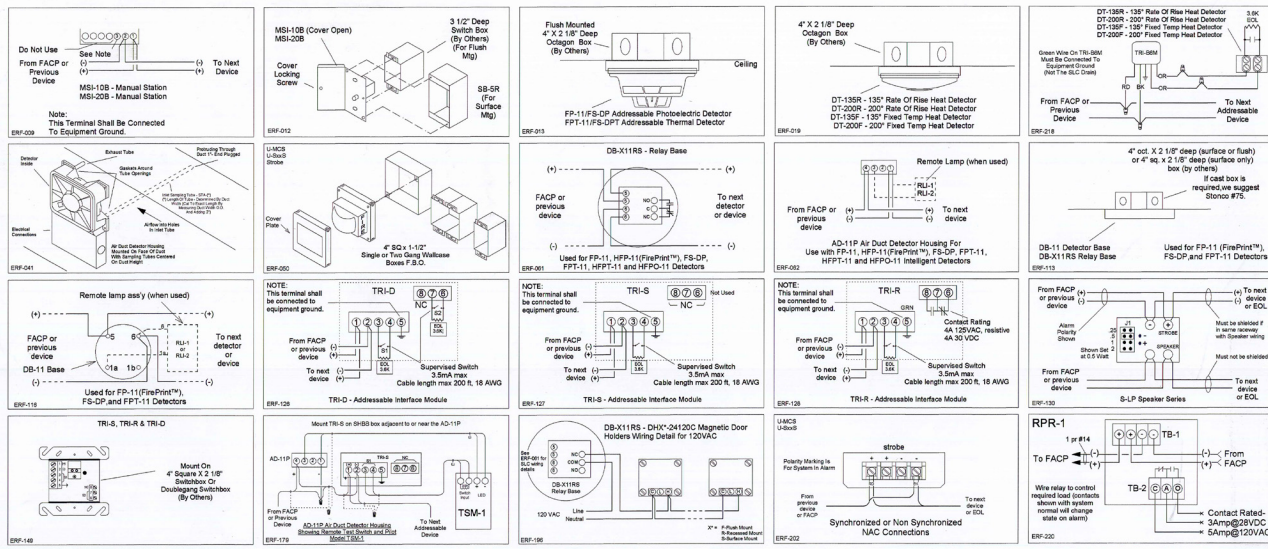
THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.

WHITE - Applicant's Copy

YELLOW - Office Copy

PINK - Permit Copy



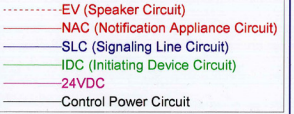
EQUIPMENT LIST AND LEGEND

A&E SYMBOL	ITEM SYMBOL	QTY	MODEL	DESCRIPTION	COMMENT
1	FAA	1	MXLV	Fire Alarm Control Panel	Mount Top @ 6'-0" AFF
2	FAA	1	RCC-3	Remote Annunciator	
3	FACU	1	MXLV-R	Fire Alarm Control Unit	
4	P	291	FP-11	Intelligent Fire Detector	Mounts on Item #5 or with "R" subscript Mounts on Item #6
5	n/a		DB-11	Detector Base	See ERF-013,-113,-116
6	n/a		DB-X11RS	Relay Base	See ERF-061,-113,-198
7	F ₁₁	35	FPT-11	Intelligent Thermal Detector	
8	F ₁₁	22	AD-11P	Air Duct Housing	See ERF-041,-062,-179
9	n/a	22	STA-7	Sampling Tube Assembly - Length Required	See ERF-041
10	TSM	22	TSM-1	Duct Detector Test Switch	See ERF-179
11	F ₁₁	5	DT-200F TRI-B9M	Fixed Thermal Fire Detector with Addressable Interface	See ERF-019,-218
12	T ₁₁	58	TRI-D	Duct Detector Interface Module	See ERF-126,-149
13	T ₁₁	22	TRI-S	Intelligent Interface Module	See ERF-127,-149
14	T ₁₁	15	TRI-R	Intelligent Interface Module	See ERF-128,-149
15	SDP	11	PAD-3R	Auxiliary Power Supply - Notification Appliance Extender	
16	F	255	U-MCS	Multi-Candela Sync Strobe	See ERF-050,-202
17	F	237	S-LP70MG-MCS	Speaker with Sync Strobe	See ERF-130
18	F	74	MSI-20B	Intelligent Manual Station	See ERF-009,-012
19	J	31	FJ-304	Remote Firefighters Telephone Jack	See ERF-221
20	n/a	6	PT-304	Firefighter Handset w/PTT	
21	M	191		Magnetic Door Holder, Existing	
22	M	51		Smoke Damper, Existing Dual Switch	
23	F	11		Sprinkler Flow Switch, Existing	
24	F	9		Sprinkler Tamper Switch, Existing	
25	n/a	3	RPR-1	NAC Relay	See ERF-220
26					
27					
28					
29					
30					

E. R. FIELD, INC.

FIRE SAFETY SYSTEMS
106 TAYLOR HILL ROAD
LEWISTON, ME 04240

NOTES:



REFERENCES:

- Home runs may be grouped in a raceway for a given circuit usage.
- Please call E. R. Field, Inc. at 1-800-222-PYRO (7976) if you have any questions regarding the interpretation of any notes or drawings provided by us.
- All final connections at the control panels will be made by an E. R. Field, Inc. technician.
- Except at devices without terminals, no splices of any kind are allowed.
- It is strongly suggested that the installer carefully study the entire submittal package before starting installation of the system.
- Without exception, no circuits of other classifications or systems will share any of the raceways or cables of this system.
- When shielded cables are used, the shields/drains shall be made electrically continuous and insulated at each opening in the cable jacket and shall be grounded only at the control panel.
- The electrical installation shall be in strict accordance with applicable NFPA codes with particular attention being given to Article 780 of NFPA 70, 2002.
- Use mounting boxes that comply with manufacturers requirements and that are suitable for the environment.
- Only bottom entry shall be allowed at FATB and FAIC cabinets.
- Free length on each cable shall be terminated at FAA, FATB, FAIC, VCOM and/or FACP cabinets shall be not less than the total of length, width and depth of that cabinet.
- Cables shall be labeled with at least two durable markers at each cabinet.
- All wiring is Class "A" unless explicitly identified otherwise.
- Hash marks // indicate number of pairs if other than one.
- FATB, FAIC, FACP, FACU, VCOM, SDP and FAA cabinets are not pull boxes.
- Unless specifically indicated otherwise each cabinet shall be mounted with its top at 6'-0" AFF.
- All wiring shall be in metallic raceway.
- All SLC cable shall be 1 pr #18/6 FPLRMC with copper conductors.
- All strobe (NAC) cable shall be minimum size 1 pr #14 copper conductors.
- All speaker circuit wiring shall be minimum size 1 pr #16 non shielded.
- The ground terminal of every TRI-S, -D or -R module shall be connected to equipment ground.
- The ground wire of every TRI-B6M module shall be connected to equipment ground.
- The ground stud of every FAIC and FATB shall be connected to equipment ground and bonded to each conduit bushing.
- SLC drain wire shall not be used as an equipment grounding conductor.
- The system components shall result in a complete working system in compliance with NFPA 70, NFPA 72 and NFPA 101.
- Fire alarm system installer shall obtain all required permits (state & local) and arrange for inspections by the appropriate agencies following completion of installation, per NFPA 72.
- Batteries shall be sized to provide 4 hours of standby and 10 minutes of alarm operation (during loss of 120vac supply).
- In no case shall wiring of dissimilar circuits be bundled together.
- Wiring shall be continuous from utilization device terminals to utilization device or panel terminals.
- All pull boxes and fittings shall be identified in accordance with code requirements.
- Fire alarm system installer shall maintain one complete set of record drawings. This set shall be redline updated at the end of each construction day.
- Load and voltage drop calculations have been done for all strobe NAC circuits.

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	11/29/04
B	Per FW Review	12/17/04
C	Construction Issue	12/27/04
D	Update Quantities	3/16/05
E	Update Quantities	3/21/05

DRAWN BY:	AB	DATE	11/29/04
CHECKED BY:	GF	DATE	12/30/04
CORRECTED BY:			
APPROVED BY:			

ISSUE CODES	
P- PRELIMINARY	B - BIDS
A- AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Equipment List, Legend
One Line Riser
Notes and Details

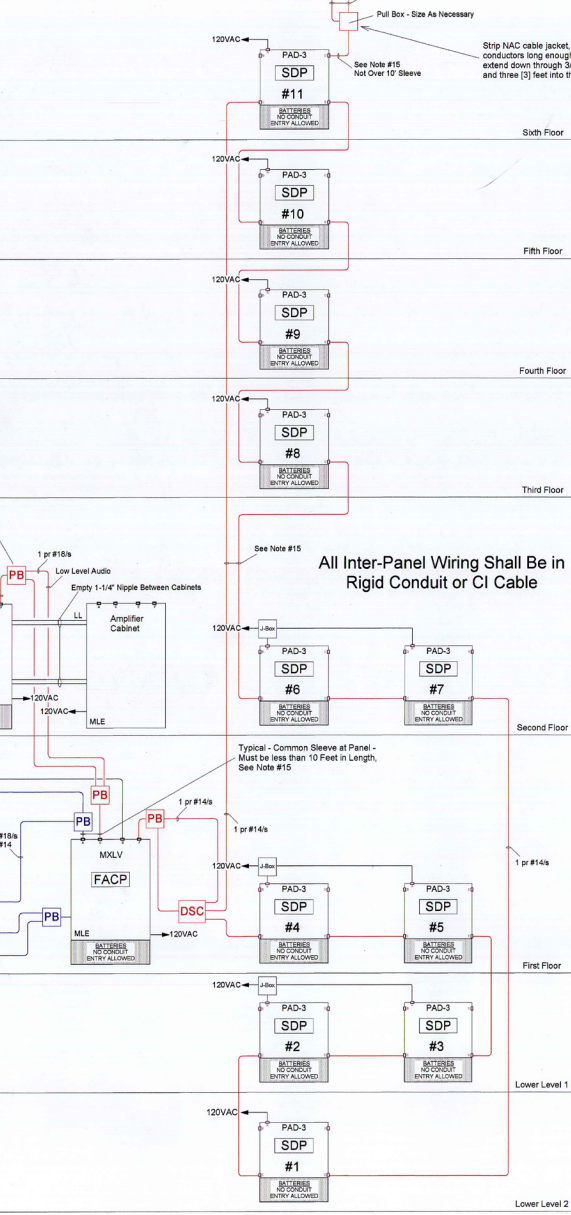
DWG # **FA-1**

FILE NAME: 12316FA01E ERF JOB NO: 12316

NOTES:

- Home runs may be grouped in a raceway for a given circuit usage.
- Please call E. R. Field, Inc. at 1-800-222-PYRO (7976) if you have any questions regarding the interpretation of any notes or drawings provided by us.
- All final connections at the control panels will be made by an E. R. Field, Inc. technician.
- Except at devices without terminals, no splices of any kind are allowed.
- It is strongly suggested that the installer carefully study the entire submittal package before starting installation of the system.
- Without exception, no circuits of other classifications or systems will share any of the raceways or cables of this system.
- When shielded cables are used, the shields/drains shall be made electrically continuous and insulated at each opening in the cable jacket and shall be grounded only at the control panel.
- The electrical installation shall be in strict accordance with applicable NFPA codes with particular attention being given to Article 780 of NFPA 70, 2002.
- Use mounting boxes that comply with manufacturers requirements and that are suitable for the environment.
- Only bottom entry shall be allowed at FATB and FAIC cabinets.
- Free length on each cable shall be terminated at FAA, FATB, FAIC, VCOM and/or FACP cabinets shall be not less than the total of length, width and depth of that cabinet.
- Cables shall be labeled with at least two durable markers at each cabinet.
- All wiring is Class "A" unless explicitly identified otherwise.
- Hash marks // indicate number of pairs if other than one.
- FATB, FAIC, FACP, FACU, VCOM, SDP and FAA cabinets are not pull boxes.
- Unless specifically indicated otherwise each cabinet shall be mounted with its top at 6'-0" AFF.
- All wiring shall be in metallic raceway.
- All SLC cable shall be 1 pr #18/6 FPLRMC with copper conductors.
- All strobe (NAC) cable shall be minimum size 1 pr #14 copper conductors.
- All speaker circuit wiring shall be minimum size 1 pr #16 non shielded.
- The ground terminal of every TRI-S, -D or -R module shall be connected to equipment ground.
- The ground wire of every TRI-B6M module shall be connected to equipment ground.
- The ground stud of every FAIC and FATB shall be connected to equipment ground and bonded to each conduit bushing.
- SLC drain wire shall not be used as an equipment grounding conductor.
- The system components shall result in a complete working system in compliance with NFPA 70, NFPA 72 and NFPA 101.
- Fire alarm system installer shall obtain all required permits (state & local) and arrange for inspections by the appropriate agencies following completion of installation, per NFPA 72.
- Batteries shall be sized to provide 4 hours of standby and 10 minutes of alarm operation (during loss of 120vac supply).
- In no case shall wiring of dissimilar circuits be bundled together.
- Wiring shall be continuous from utilization device terminals to utilization device or panel terminals.
- All pull boxes and fittings shall be identified in accordance with code requirements.
- Fire alarm system installer shall maintain one complete set of record drawings. This set shall be redline updated at the end of each construction day.
- Load and voltage drop calculations have been done for all strobe NAC circuits.

Typical of Each Strobe NAC at Each SDP
See Floor Plans for Number of NACs on a Given Floor



One Line System Riser
Showing Network & Other Interpanel Wiring
NOT TO SCALE

NUMBER OF SLC's THIS FLOOR: 1
NUMBER OF NAC's [strobe] THIS FLOOR: 2
NUMBER OF SPKR CKTS THIS FLOOR: 2

Symbol Name	Quantity
Room Names	93
Door Holder	21
Fire Phone Jack	3
Manual Station	7
Photo Detector	28
Heat Det 200F	5
Dust Detector	2
Flow Switch	4
Flame Switch	2
TRLD	1
TRLS	5
SDP	1
FPPT-11	4
Speaker Strobe 110 cd	3
Speaker Strobe 75 cd	2
Speaker Strobe 30 cd	2
Strobe	2
Speaker Strobe	32
Strobe 110 cd	1
Strobe 30 cd	1

NOTES:
1. All strobe circuits on this floor to be #12.



EV (Speaker Circuit)
NAC (Notification Appliance Circuit)
SLC (Signaling Line Circuit)
IDC (Initiating Device Circuit)
24VDC
Control Power Circuit

REFERENCES:

REVISIONS:			
NUMBER	DESCRIPTION	DATE	
A	Update Site Survey	AB	11/29/04
B	Per WB Review	AB	12/17/04
C	Construction Issue	AB	12/27/04
D	Additional Devices per Portland Fire Dept.	AB	3/16/05

DRAWN BY:	AB	DATE	10/5/2004
CHECKED BY:	GF		12/30/2004
CORRECTED BY:			
APPROVED BY:			

ISSUE CODES	
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Lower Level 2

DWG # FA-2

FILE NAME: 12318FA02D ERF JOB NO: 12318

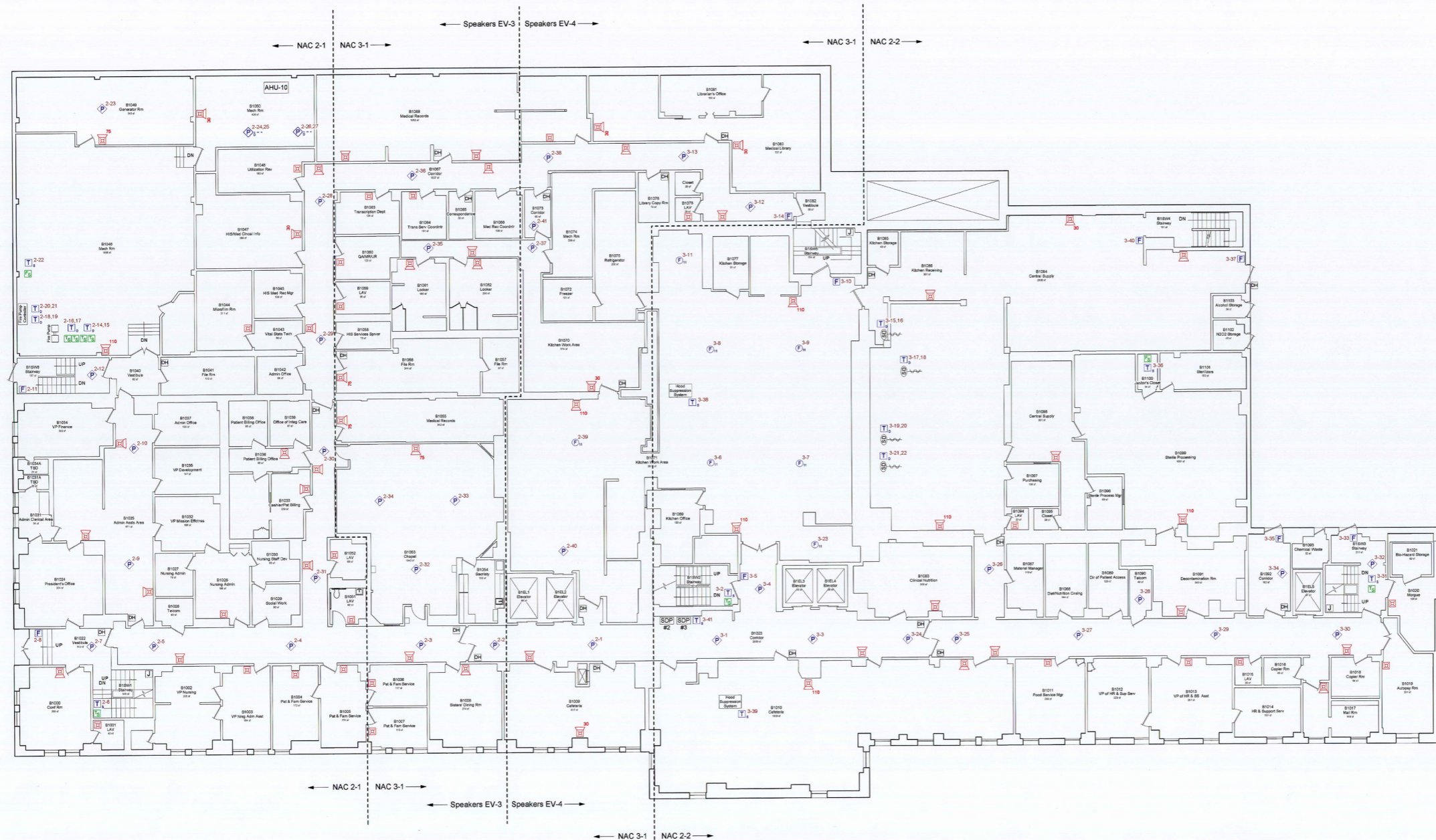
Lower Level 2 Floor Plan
Scale: 1" = 10'

Symbol Name	Quantity
Room Names	117
Smoke Damper	4
TRIO	8
Door Holder	22
Fire Phone Jack	3
FPT-11	7
Manual Station	9
Photo Detector	37
Duct Detector	2
Flow Switch	2
Temper Switch	7
TRI-S	8
Speaker Strobe 110 cd	7
Speaker Strobe 30 cd	7
Speaker Strobe	32
Strobe	23
Speaker Strobe 75 cd	4
SDP	2

NOTES:

- All strobe circuits on this floor to be #12.

NUMBER OF SLC's THIS FLOOR: 2
 NUMBER OF NAC's [strobe] THIS FLOOR: 3
 NUMBER OF SPKR CKTS THIS FLOOR: 2



-----EV (Speaker Circuit)
-----NAC (Notification Appliance Circuit)
-----SLC (Signaling Line Circuit)
-----IDC (Initiating Device Circuit)
-----24VDC
-----Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04

DRAWN BY:	AB	DATE
CHECKED BY:	GF	10/5/2004
CORRECTED BY:		12/30/2004
APPROVED BY:		

ISSUE CODES	
P- PRELIMINARY	B - BIDS
A- AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Lower Level 1

DWG # **FA-3**

Lower Level 1 Floor Plan

Scale: 1" = 10'

NUMBER OF SLC's THIS FLOOR: 2

NUMBER OF NAC's [strobe] THIS FLOOR: 4

NUMBER OF SPKR CKTS THIS FLOOR: 2

Symbol Name	Quantity
Smoke Damper	11
TRID	11
Fire Phone Jack	5
Door Holder	28
FPT-11	1
Manual Station	19
Photo Detector	63
Duct Detector	4
PACP	1
FAA	1
SDP	2
TRIR	2
TRIS	2
Flow Switch	1
Speaker Strobe	39
Strobe	74
Strobe 75 cd	1
Strobe 30 cd	2
Speaker Strobe 75 cd	2
Speaker Strobe 30 cd	5

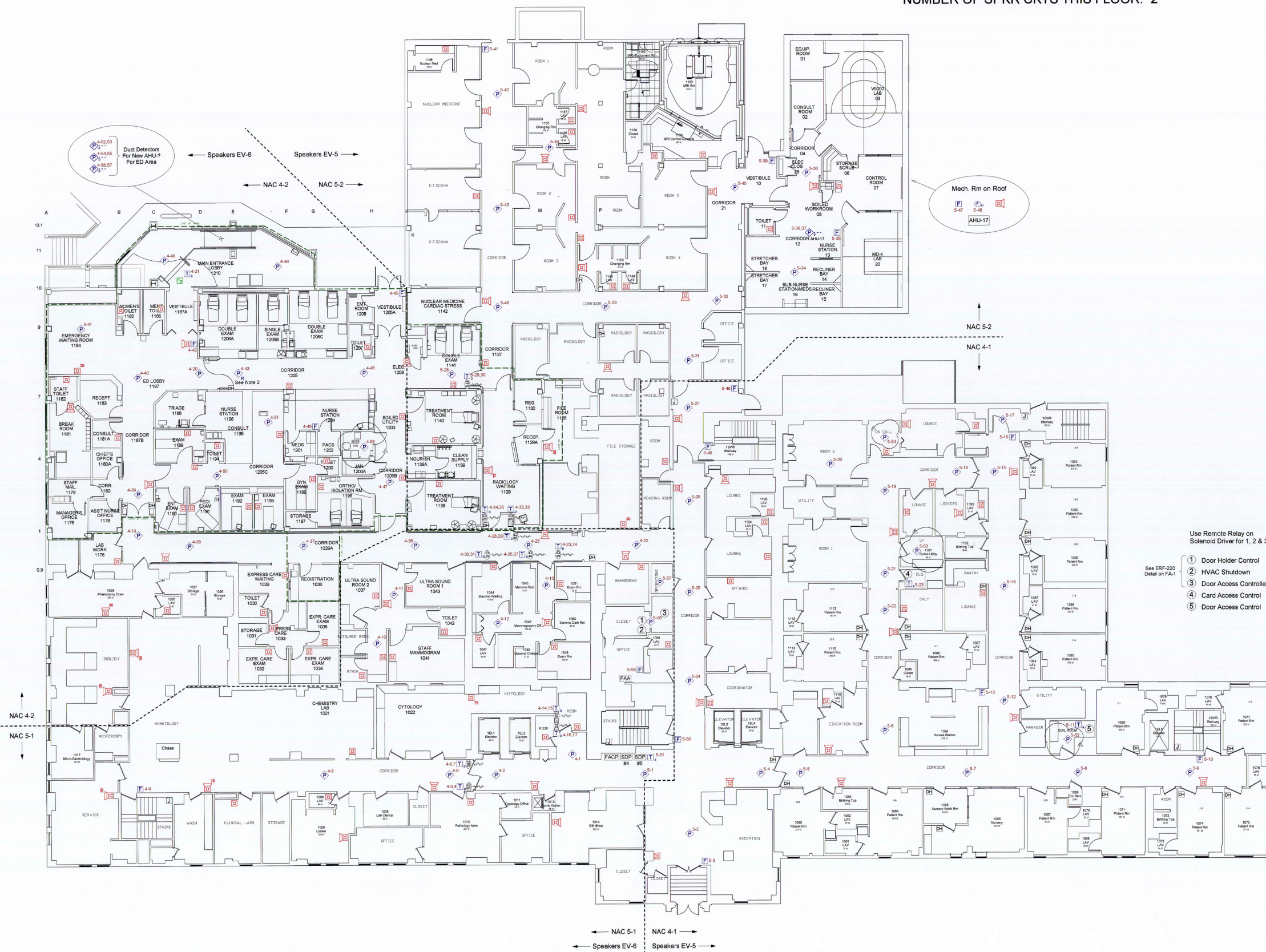
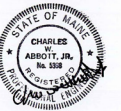
E. R. FIELD, INC.

FIRE SAFETY SYSTEMS
106 TAYLOR HILL ROAD
LEWISTON, ME 04240

1-800-222-7976 erfield@wi.net 207-782-8243

NOTES:

- All strobe circuits on this floor to be #12.
- Device 4-43 relay base to interlock mag door lock controller for door in Corridor 1205 at Nurses Station. Arrange to unlock door on relay state change.



- Use Remote Relay on Solenoid Driver for 1, 2 & 3
See ERF-220 Detail on FA-1
- 1 Door Holder Control
 - 2 HVAC Shutdown
 - 3 Door Access Controller
 - 4 Card Access Control
 - 5 Door Access Control

EV (Speaker Circuit)
NAC (Notification Appliance Circuit)
SLC (Signaling Line Circuit)
IDC (Initiating Device Circuit)
Control Power Circuit

REFERENCES:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	New ED Area - Preliminary	AB 2/8/05
E	New ED Area - Final Update	AB 3/2/05
F	Additional Devices per Portland Fire Dept.	AB 3/18/05
G	Add Door Relay & Flow Switch Monitoring	AB 3/21/05

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	New ED Area - Preliminary	AB 2/8/05
E	New ED Area - Final Update	AB 3/2/05
F	Additional Devices per Portland Fire Dept.	AB 3/18/05
G	Add Door Relay & Flow Switch Monitoring	AB 3/21/05

DRAWN BY:	AB	DATE	10/5/2004
CHECKED BY:	GF	DATE	12/30/2004
CORRECTED BY:			
APPROVED BY:			

ISSUE CODES	
P- PRELIMINARY	B - BIDS
A- AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
First Floor

DWG # **FA-4**

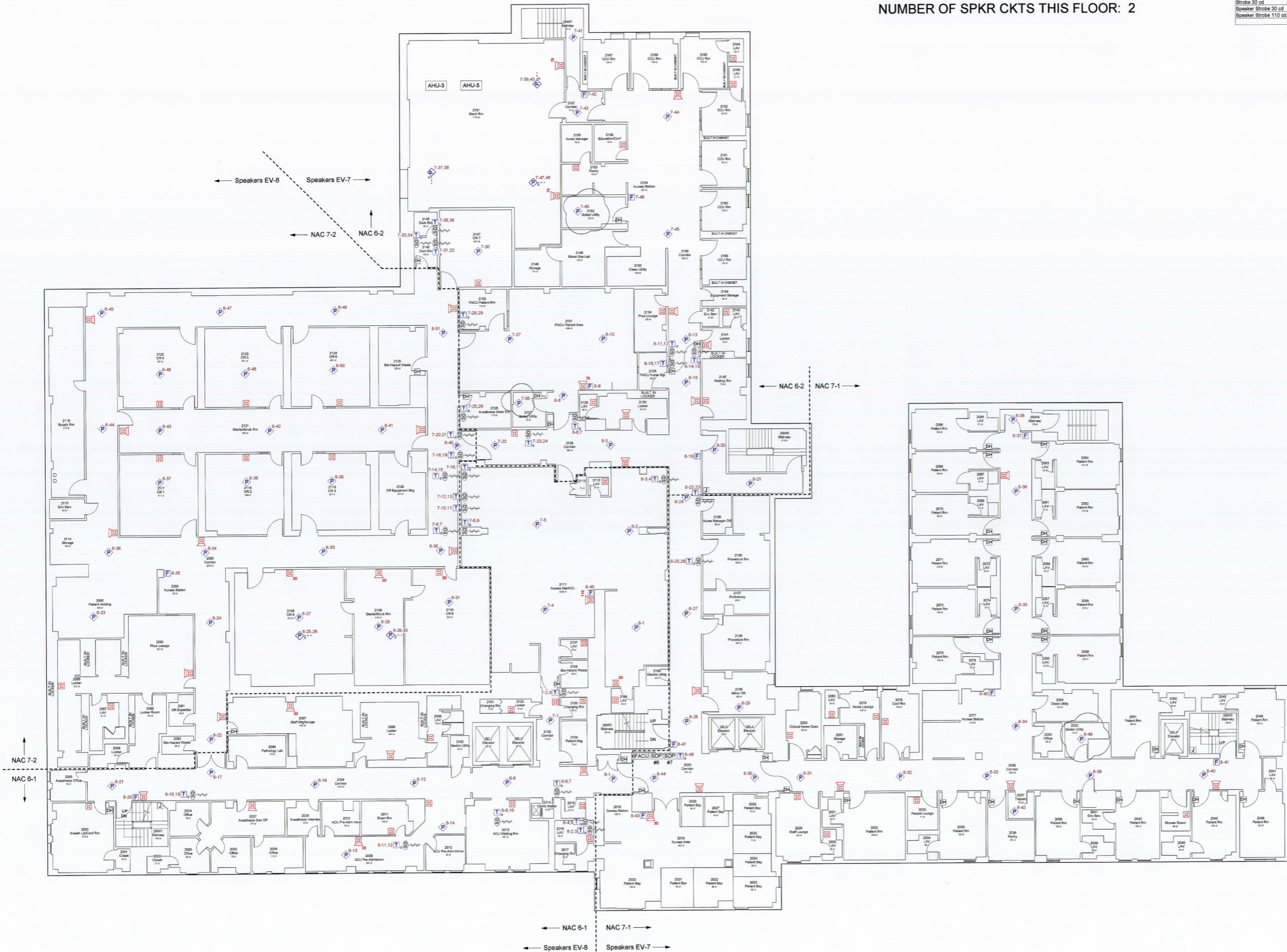
FILE NAME: 12316FA04G ERF JOB NO: 12316

NUMBER OF SLC's THIS FLOOR: 3
NUMBER OF NAC's [strobe] THIS FLOOR: 4
NUMBER OF SPKR CKTS THIS FLOOR: 2

Symbol Name	Quantity
Room Names	161
Smoke Damper	28
TRI-D	28
Door Holder	35
Fire Phone Jack	3
Manual Station	12
Photo Detector	71
Dust Detector	5
SDP	2
FACU	1
TRI-S	1
Speaker Strobe	25
Strobe	39
Speaker Strobe 75 cd	3
Strobe 30 cd	3
Speaker Strobe 30 cd	4
Speaker Strobe 110 cd	1

NOTES:

- All strobe circuits on this floor to be #12.



EV (Speaker Circuit)
NAC (Notification Appliance Circuit)
SLC (Signaling Line Circuit)
IDC (Initiating Device Circuit)
24VDC
Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Additional Devices per Portland Fire Dept.	AB 3/18/05

DRAWN BY:	DATE
AB	10/5/2004
CHECKED BY:	DATE
GF	12/30/2004

ISSUE CODES	
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Second Floor

DWG # **FA-5**

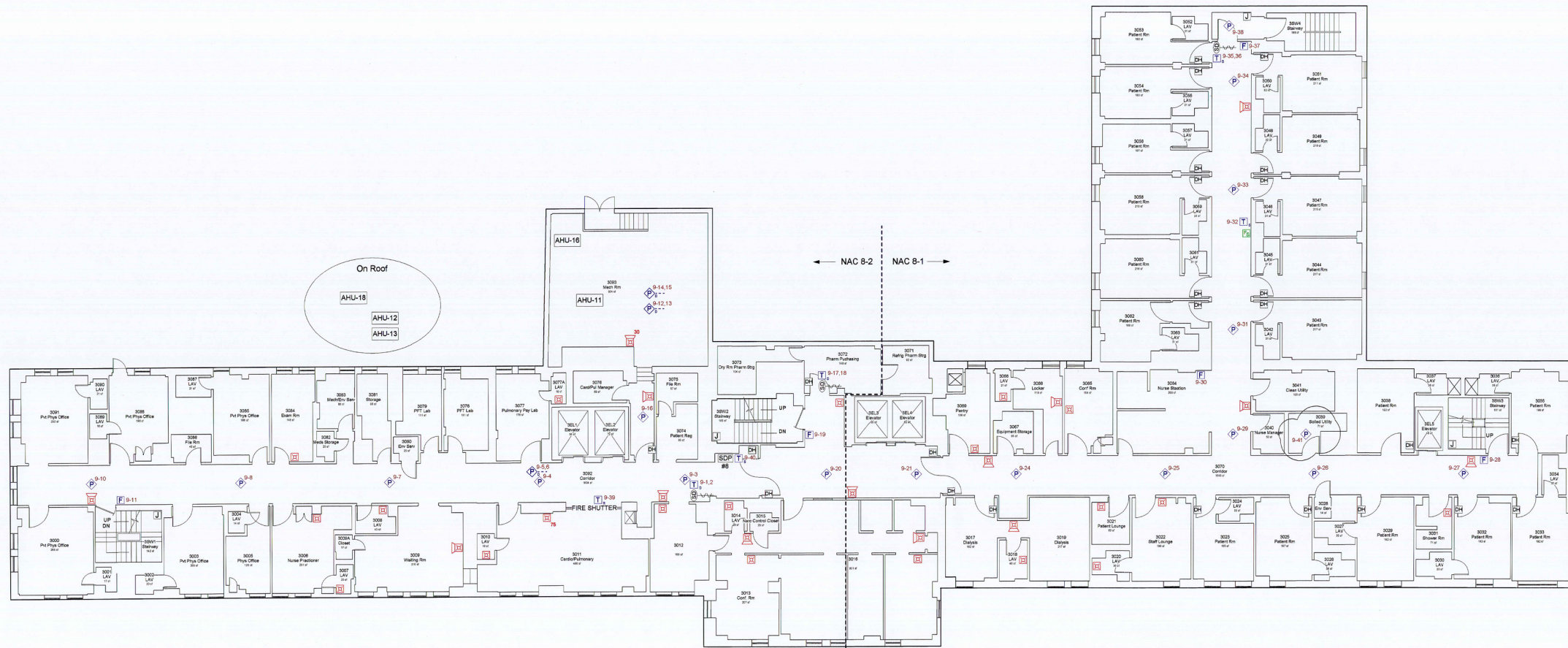
Second Floor Plan

Scale: 1" = 10'

NUMBER OF SLC's THIS FLOOR: 1
NUMBER OF NAC's [strobe] THIS FLOOR: 2
NUMBER OF SPKR CKTS THIS FLOOR: 1

Symbol Name	Quantity
Room Names	105
Smoke Damper	3
TRU-D	3
Fire Phone Jack	4
Door Holder	25
Photo Detector	18
Manual Station	5
Duct Detector	3
Flow Switch	1
TRU-S	2
SDP	1
TRU-R	1
Strobe 75 cd	1
Speaker Strobe	13
Strobe	19
Speaker Strobe 30 cd	1

NOTES:



Third Floor Plan

Scale: 1" = 10'

ALL SPEAKERS ON THIS FLOOR, EV-9

-----EV (Speaker Circuit)
-----NAC (Notification Appliance Circuit)
-----SLC (Signaling Line Circuit)
-----IDC (Initiating Device Circuit)
-----24VDC
-----Control Power Circuit

REFERENCES:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Additional Devices per Portland Fire Dept.	AB 3/16/05

	DATE
DRAWN BY:	AB 10/5/2004
CHECKED BY:	GF 12/30/2004
CORRECTED BY:	
APPROVED BY:	

ISSUE CODES	
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Third Floor

DWG # FA-6

FILE NAME: 12316FA06D ERF JOB NO: 12316

NUMBER OF SLC's THIS FLOOR: 1
NUMBER OF NAC's [strobe] THIS FLOOR: 2
NUMBER OF SPKR CKTS THIS FLOOR: 1

Symbol Name	Quantity
Room Names	125
Smoke Damper	2
TRI-D	2
Fire Phone Jack	5
Door Holder	28
Manual Station	7
Photo Detector	24
TRI-S	2
SDP	1
Flow Switch	1
TRI-R	1
Speaker Strobe	15
Strobe	38
Strobe 30 cd	1
Speaker Strobe 30 cd	1
Strobe 110 cd	1

NOTES:

- All strobe circuits on this floor to be #12.



Fourth Floor Plan

Scale: 1" = 10'

ALL SPEAKERS ON THIS FLOOR, EV-10

-----	EV (Speaker Circuit)
-----	NAC (Notification Appliance Circuit)
-----	SLC (Signaling Line Circuit)
-----	IDC (Initiating Device Circuit)
-----	24VDC
-----	Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Additional Devices per Portland Fire Dept.	AB 3/18/05

DRAWN BY:	DATE
AB	10/5/2004
CHECKED BY:	DATE
GF	12/30/2004
CORRECTED BY:	DATE
APPROVED BY:	DATE

ISSUE CODES	
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Fourth Floor

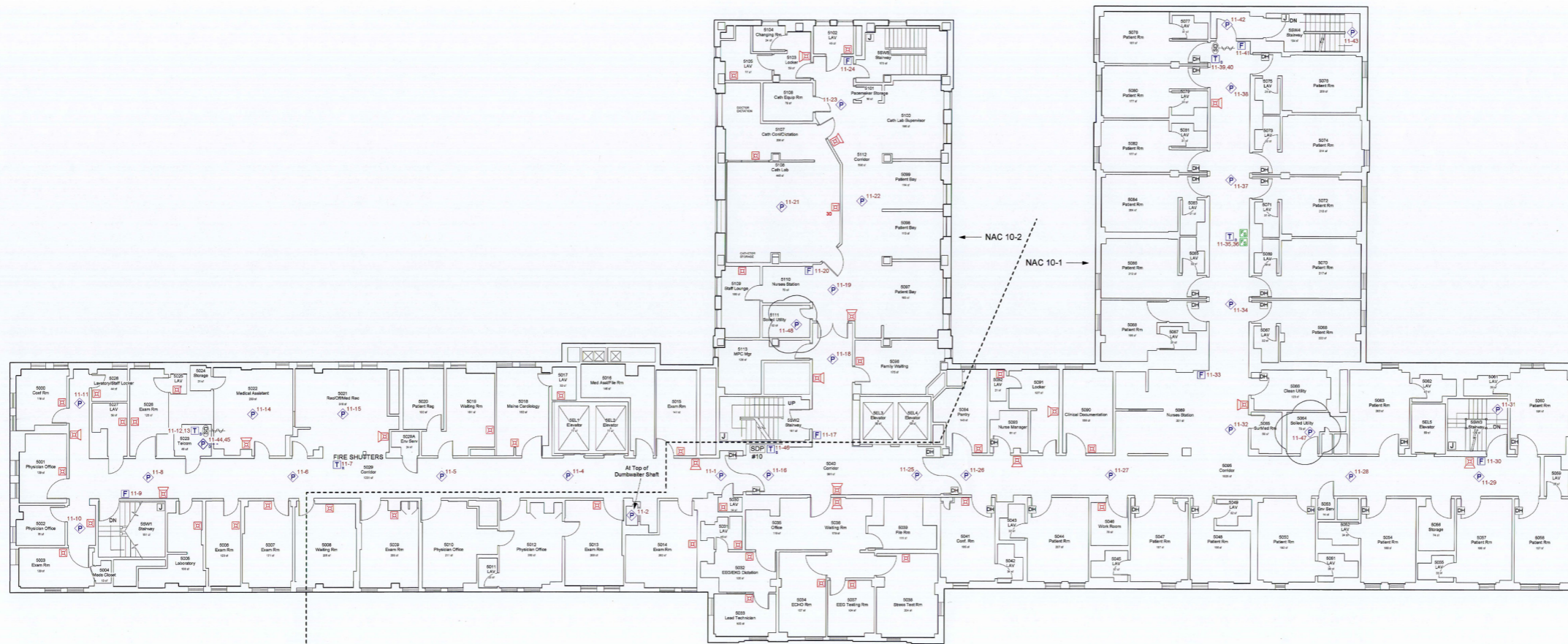
DWG # **FA-7**

NUMBER OF SLC's THIS FLOOR: 1
NUMBER OF NAC's [strobe] THIS FLOOR: 2
NUMBER OF SPKR CKTS THIS FLOOR: 1

Symbol Name	Quantity
Room Number	126
Smoke Damper	2
TRI-D	3
Fire Phone Jack	5
Door Holder	27
Photo Detector	30
Manual Station	7
Quasi Detector	1
Flow Switch	2
SDP	1
TRI-R	1
TRI-S	1
Speaker Strobe	16
Strobe	36
Strobe 30 cd	1

NOTES:

- Wire for strobe circuit NAC 10-2 shall be #12.



← NAC 10-2 NAC 10-1 →

ALL SPEAKERS ON THIS FLOOR, EV-11

Fifth Floor Plan

Scale: 1" = 10'

-----	EV (Speaker Circuit)
-----	NAC (Notification Appliance Circuit)
-----	SLC (Signaling Line Circuit)
-----	IDC (Initiating Device Circuit)
-----	24VDC
-----	Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Additional Devices per Portland Fire Dept.	AB 3/18/05

	DATE
DRAWN BY: AB	10/5/2004
CHECKED BY: GF	12/30/2004
CORRECTED BY:	
APPROVED BY:	

ISSUE CODES	
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Fifth Floor

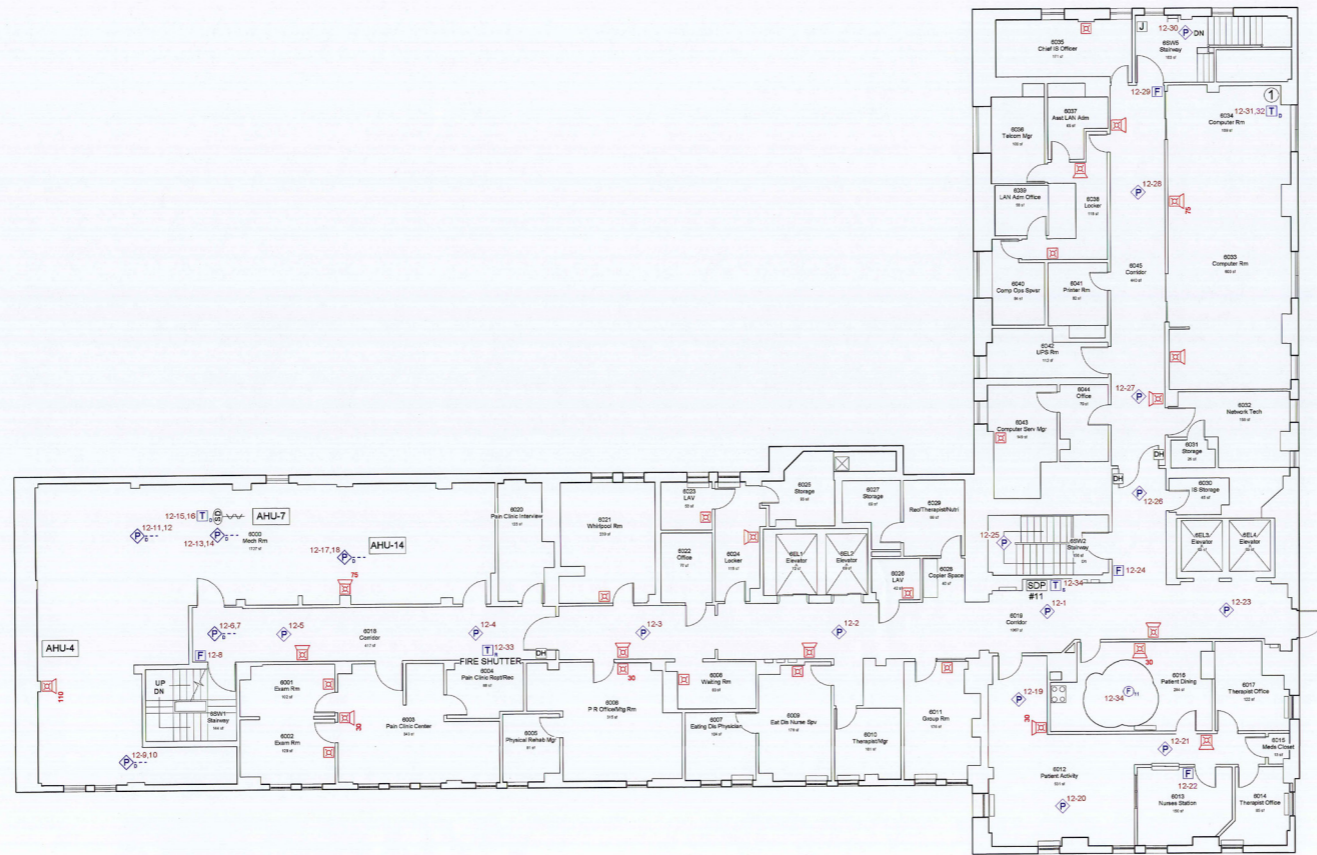
DWG # **FA-8**

FILE NAME: 12316FA08D ERF JOB NO: 12316

NUMBER OF SLC's THIS FLOOR: 1
 NUMBER OF NAC's [strobe] THIS FLOOR: 2
 NUMBER OF SPKR CKTS THIS FLOOR: 1

Symbol Name	Quantity
Room Names	53
Smoke Damper	1
TRI-D	2
Fire Phone Jack	1
Door Holder	3
Manual Station	4
Photo Detector	14
Dust Detector	5
SDP	1
TRI-R	1
TRI-S	1
FPT-11	1
Speaker Strobe 30 cd	3
Strobe 30 cd	1
Speaker Strobe 110 cd	1
Speaker Strobe	10
Strobe	11
Speaker Strobe 75 cd	2

NOTES:
 1. All strobe circuits on this floor to be #12.



① Halon Control Panel - Pemall 424A

ALL SPEAKERS ON THIS FLOOR, EV-12
 ALL STROBES ON THIS FLOOR, NAC 11-1

Sixth Floor Plan
 Scale: 1" = 10'

-----EV (Speaker Circuit)
-----NAC (Notification Appliance Circuit)
-----SLC (Signaling Line Circuit)
-----IDC (Initiating Device Circuit)
-----24VDC
-----Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Additional Devices per Portland Fire Dept.	AB 3/16/05

DRAWN BY:	AB	DATE	10/5/2004
CHECKED BY:	GF		12/30/2004
CORRECTED BY:			
APPROVED BY:			

ISSUE CODES	
P- PRELIMINARY	B - BIDS
A- AS BUILT	C - CONSTRUCTION

Mercy Hospital
 144 State Street
 Portland, Maine

Fire Alarm System
 Device and Equipment Locations
 Sixth Floor

DWG # **FA-9**

FILE NAME: 12316FA09D ERF JOB NO: 12316

NUMBER OF SLC's THIS FLOOR: 1
NUMBER OF NAC's [strobe] THIS FLOOR: 1
NUMBER OF SPKR CKTS THIS FLOOR: 1

Symbol Name	Quantity
Door Holder	2
Fire Phone Jack	2
FPT-11	22
Photo Detector	6
Manual Station	7
TRI-R	9
Speaker Strobe	2
Speaker Strobe 20 cd	2
Speaker Strobe 110 cd	3

NOTES:

- All strobe circuits on this floor to be #12.

-----EV (Speaker Circuit)
-----NAC (Notification Appliance Circuit)
-----SLC (Signaling Line Circuit)
-----IDC (Initiating Device Circuit)
-----24VDC
-----Control Power Circuit

REFERENCES:

REVISIONS:

NUMBER	DESCRIPTION	DATE
A	Update Site Survey	AB 11/29/04
B	Per WB Review	AB 12/17/04
C	Construction Issue	AB 12/27/04
D	Add Door and Delete Note	AB 3/16/05

		DATE
DRAWN BY:	AB	11/18/2004
CHECKED BY:	GF	12/30/2004
CORRECTED BY:		
APPROVED BY:		

ISSUE CODES

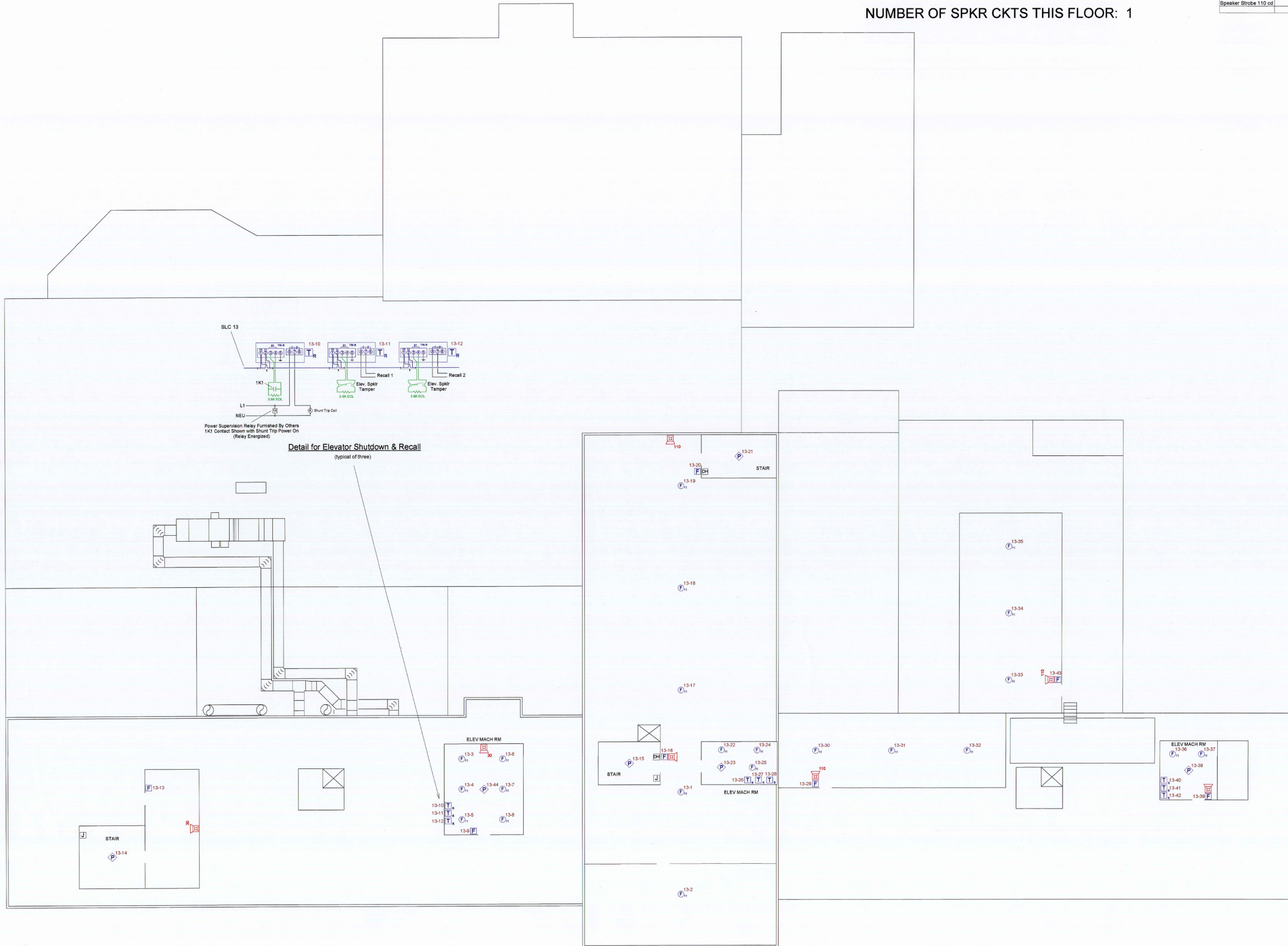
P - PRELIMINARY	B - BIDS
A - AS BUILT	C - CONSTRUCTION

Mercy Hospital
144 State Street
Portland, Maine

Fire Alarm System
Device and Equipment Locations
Roof

DWG # FA-10

FILE NAME: 12316FA10D ERF JOB NO: 12316



ALL SPEAKERS ON THIS LEVEL, EV-13
ALL STROBES ON THIS LEVEL, NAC 11-2

Roof Floor Plan

Scale: 1" = 10'