

WASHINGTON STATE BUILDING CODE COUNCIL
APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT
TO THE WASHINGTON STATE BUILDING CODE

1. State Building Code to be Amended.

- | | |
|---|--|
| <input type="checkbox"/> International Building Code | <input type="checkbox"/> Ventilation and Indoor Air Quality Code |
| <input type="checkbox"/> International Residential Code | <input type="checkbox"/> International Mechanical Code |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code | <input type="checkbox"/> International Fuel Gas Code |
| <input checked="" type="checkbox"/> International Fire Code | <input type="checkbox"/> NFPA 54 National Fuel Gas Code |
| <input type="checkbox"/> Uniform Plumbing Code | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code |
| <input type="checkbox"/> State Energy Code | |

Section 907.2.6.4

Page 94

2. Applicant:

Lance Talley, Washington State Patrol – Office of the State Fire Marshal

3. Signed:

Lance Talley CDSFM 2-28-11
Proponent Title Date

4. Contact Person:

CDSFM Lance Talley
PO Box 42600
Olympia WA 98504
(360) 596-3909

RECEIVED
MAR 01 2011
SBCC

5. Proposed Code Amendment (Underline all added words, strike through deleted words) Additional pages may be attached.

Code 2009 IFC Section 907.2.6.4 Page 94

Amend section to read as follows:

NEW SECTION

Group I-4. Group I-4 Child Care Occupancies. Child Care occupancies that provide supervision and personal care on less than a 24 hour basis for more than five children 2 1/2 years or less shall be classified as Group I-4 and shall be equipped throughout with a manual fire alarm system and automatic smoke detection system that activates the occupant notification system in accordance with sections 907.6 thru 907.6.2.3.2 and shall be installed in accordance with NFPA 72.

6. Background information on amendment.

NOTE: State-wide and emergency state-wide amendments to the state building code should be based on one of the following criteria:

- (1) The amendment is needed to address a critical life/safety need.
- (2) The amendment is needed to address a specific state policy or statute.
- (3) The amendment is needed for consistency with state or federal regulations.
- (4) The amendment is needed to address a unique character of the state.
- (5) The amendment corrects errors and omissions.

1. This new section is needed to address a critical life/safety need.

Currently under the 2009 IFC there is no requirement for automatic smoke detection in an I-4 occupancy and minimal requirements for manual fire alarm systems. This omission allows upto 100 children under 2 1/2 years of age with no direct exiting at grade level, no automatic smoke detection, and a manual alarm system with only 1 pull station.

This new section would require new I-4 occupancies to install full automatic smoke detection and full manual fire alarm system throughout the section of the building used for child care upto an occupancy separation.

Economic Impact Worksheet
(Required for statewide amendment requests. Attach supporting documentation.)

Code References: IFC 907.2.6.4 Title: Fire Alarm and Detection Systems
Proponent: Washington State Patrol, Office of the State Fire Marshal Phone: 360-596-3909 Date: 2/17/2011

Part I ❖ Amendment Benefit:

PROBLEM(S) ADDRESSED: Circumvention of current code requirements – rather than being considered an E Occupancy these Facilities are being classified as I-4 Occupancies.

PRIMARY REASON FOR AMENDMENT: (check one only)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Protect public health, safety and welfare | <input type="checkbox"/> Mandate from legislation or courts |
| <input type="checkbox"/> Reduce cost | <input type="checkbox"/> Code change |
| <input type="checkbox"/> "Manage risk" for government | <input type="checkbox"/> Other _____ |

TYPE OF BENEFITS PROJECTED: (check all that apply)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Saves lives/reduces injuries | <input type="checkbox"/> Saves energy |
| <input type="checkbox"/> Protects/improves long-term health | <input type="checkbox"/> Protects environment |
| Reduces construction cost: | <input type="checkbox"/> Increases accessibility |
| <input type="checkbox"/> Over existing code requirement | <input type="checkbox"/> Reduces regulation |
| <input type="checkbox"/> Canceling new code requirement | <input type="checkbox"/> Reduces government enforcement cost |
| <input type="checkbox"/> Off-setting new code requirement | <input checked="" type="checkbox"/> Clarifies/improves existing code |
| <input type="checkbox"/> Increases construction alternatives | <input type="checkbox"/> Protects property loss/damage |
| | <input type="checkbox"/> Other _____ |

Part II ❖ Amendment Impacts:

TYPES OF CONSTRUCTION: New Construction Remodeling/Tenant Improvement/Repair

COMPLETE TABLE FOR EACH BUILDING TYPE CHECKED (See reverse for instruction on items ^a through ^e)

√	Building Type	Construction ^a 1st Cost		Enforcement ^b		Owner ^c Ongoing		Other		Supporting data attached
		C/S ^d	Degree ^e	C/S ^d	Degree ^e	C/S ^d	Degree ^e	C/S ^d	Degree ^e	
	Residential									✓
	Single family									
	Multi-family									
X	Commercial/Retail	8,639	2	500	1	510	2			X
	Industrial									
	Government/Utilities									
	Other:									

OTHER EFFECTS:

Evaluate by number scale 0-3 (0=none, 3=significant)

- 1 Likelihood for litigation
 0 Decrease public cooperation
 2 Disadvantage small business
 Other _____

Evaluate by letter code

- (Spec, Custom, Factory, Remodel, Manufact., Other, NA)
 N/A Advantage one industry
 C Disadvantage one industry

Part III ❖ Comments and Recommendations:

Evaluate each by number scale 0-3 (0=none, 3=significant)

- 0 Difficulty to Enforce 3 Cost of not adopting amendment
 0 Costs exceed Benefits 1 Degree of TAG controversy
 1 C/S Confidence level

Evaluate Yes or No (circle one)

- Y Were alternative solutions considered
Y Recommend further benefit/impact analysis
Y Recommend future benefit/impact review

West, Donald (WSP)

From: Kelly Heighton [kellyh@pacificfiresecurity.com]
Sent: Tuesday, February 01, 2011 7:34 AM
To: West, Donald (WSP)
Subject: example fire system

Hi Donald,

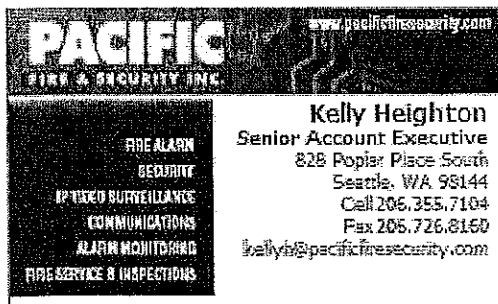
I made some slight changes to your example. But overall you are looking at:

- 1 Fire Alarm panel (addressable)
- 1 Lot of programming
- 1 heat
- 8 smokes (assuming that everything above the drop ceiling is properly sprinklered)
- 4 sprinkler points (waterflow, tampers, etc.)
- 3 pulls
- 7 horn/strobes
- 1 exterior bell/strobe
- 1 remote Annunciator
- 1 Lot of engineering (plans, submittals)
- 1 lot of permits (fire & electrical)
- 1 pretest
- 1 final test
- Lot of fire wire at about 30 cents a foot (expensive right now)

Cost \$8,639.00

For 22 devices that is about \$400 per device.

Kelly Heighton
206.355.7104



www.pacificfiresecurity.com

*Our Vision -- To be so reliable and so knowledgeable that our customers don't want to go anywhere else!
Our Mission -- We exist to exceed our customer's expectations by providing advanced integrated solutions with quality people, excellent installations and superior service.*

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Feb 2nd, 2011

Donald L West/Washington State Patrol Childcare Center - Fire Alarm Proposal

Re: Child Care Center
Seattle, WA

Thank you for the opportunity, to present to you, our investigation results to determine the viability and installation demands in meeting your requirement per previously established parameters. We feel the proposed system would meet those requirements

DESIGN CONCEPT

As per design proposal.

Scope of Work

FIRE SYSTEM:

Our design, as per requirements, would provide for a complete stand-alone System. This is achieved by the installation of the provided equipment.

Bid A (Turn Key)

(Ace Fire & Security) Provides, Plans, devices, wire, installation and final inspection with local jurisdiction included.
Does not include conduit if required.

Permits

The permit cost will be billed out separately. The estimated permits and plan review costs will be approximately \$500.00 for A-bid. **Note:** Upon submittal of "plans" to the Fire Marshal/County, lead time back to dealer is generally 2-3 weeks. This is a basic guideline and is subject to change. Fire Marshal/County must sign plans before work may start. *There are no permit fees for B-bid. The electrical contractor will obtain all permits.

Provided Equipment

Silent Knight 5208 (10) Zone Conventional Fire Alarm Panel
Silent Knight 5235 Remote LCD Annunciator

A-bid

1

1

Smoke Detector	8
Manual Pull Station	3
Horn/Strobe	4
Strobe Light	2
Weatherproof Horn/Strobe	1
Fire Sprinkler Connections	3

Schedule of Values

Bid "A" (Turn Key)

Total Amount (to be billed on a billing schedule, see exhibit A):.....\$ 6,987.00 plus sales tax

Estimated Plan Review & Permit Cost: \$500.00 plus sales tax

Exclusions

Underground, conduit, excavation, repairs of existing system if any, after hour's labor, rack and or rack modification. Labor factor is based upon free and unencumbered access to all site areas and single start/stop cycle.

Terms

Prices are valid for 30 Days from date of proposal. Upon execution of contract, customer will provide 1/3 deposit with order, thereafter progress billings, as per exhibit A, until project completion.

Thank you again for the opportunity, to partner our joint interest, in the success of this project.

If I can be of any further help, or if you should have any questions concerning this proposal, please feel free to contact me at any time.

Sincerely,

Mike Moore
Ace Fire & Security Systems

Washington State Patrol
District One - Tacoma
2502 112th Street East
Tacoma, WA 98445-5104
Phone: (253) 538-3124
Fax: (253) 538-3274



FAX

To: Mike Moore **Fax:** ²⁵²⁻¹⁵⁰⁷ ~~360-438-4244~~

Date: 1/31/2011 **Pages:** 3

From: Donald L West, Deputy State Fire Marshal **Phone:** (253) 538-3124

Re:

Urgent **For Review at Your Request** **Please Reply**

•Comments:

Mike thanks for helping me with this code change, your efforts are greatly appreciated.

This Facsimile transmission and the documents accompanying it contain information belonging to the sender, which is protected by disclosure laws. This information is intended only for the use of the individual or entity named above. If you received this transmission in error, please immediately notify us by telephone to arrange for return of the documents. Any dissemination by non-addressed parties is strictly prohibited. This message is being transmitted from the Washington State Patrol Evidence and Records Division.

Mike,

Thank you for doing this for me! Just to clarify what it is I need; I am looking for a rough estimate as to the cost of installation of an automatic smoke detection system and manual pulls, in an I-4 childcare center, the system would be required to be monitored by an outside agency and supervise the sprinkler system water flow and tampers.

The building would be a commercial location with suspended ceilings and a sprinkler system. I have provided you a floor plan of the site, please be kind for I am neither an architect nor a systems designer.

I appreciate your time in completing this and I understand that you are busy; however my supervisor just informed me this morning that they need to have this on their desk by Feb 5, 2011 so if possible could you fax it back to be ASAP.

Again thank you for your time.

WASHINGTON STATE PATROL

Service With Humility

DONALD L. WEST
DEPUTY STATE FIRE MARSHAL
OFFICE OF THE STATE FIRE MARSHAL

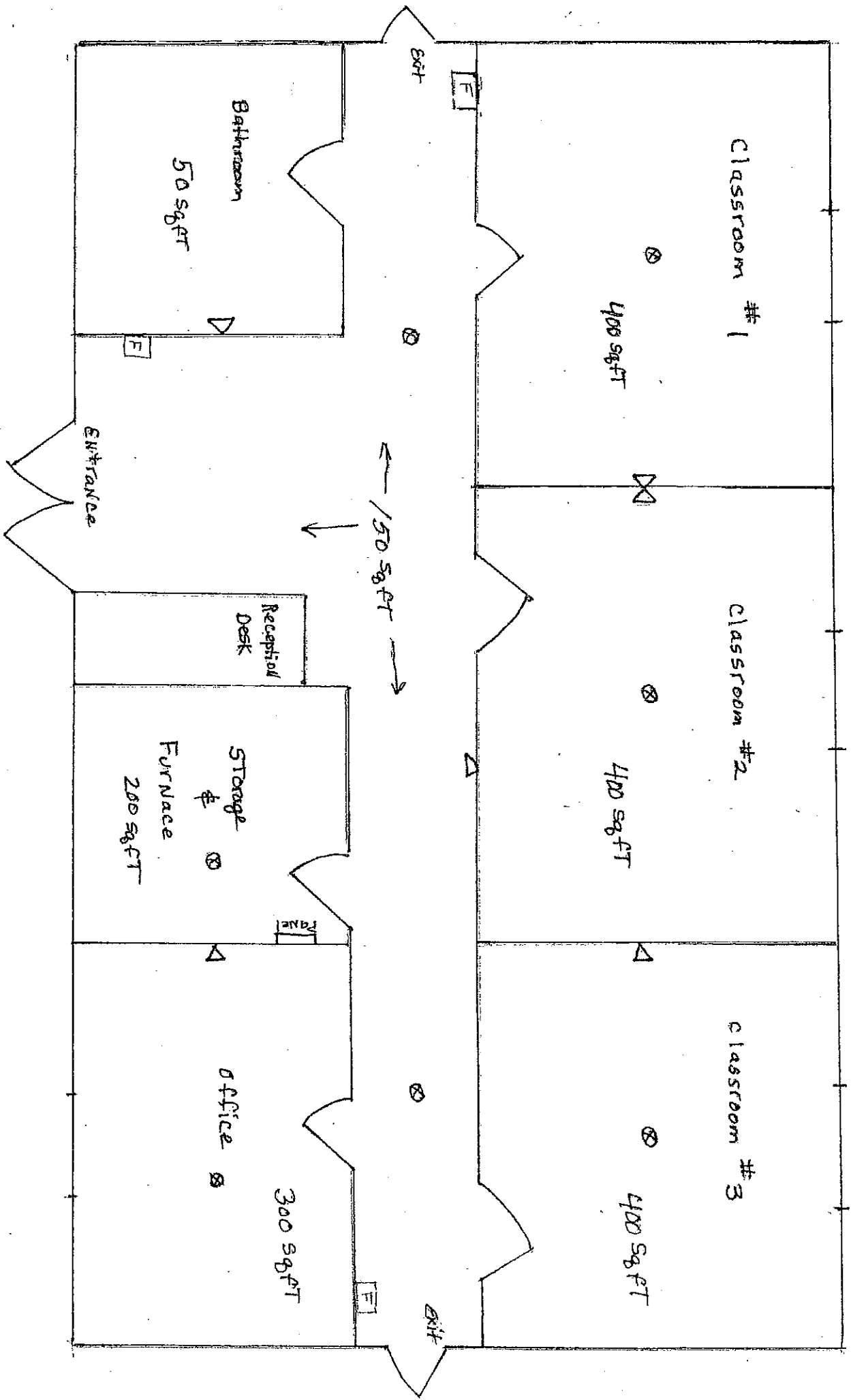


2502 112th Street East
Tacoma WA 98445-5104
(253) 538-3124 - Office
(360) 561-2562 - Cell
(253) 538-3274 - Fax
Donald.West@wsp.wa.gov

Horn Strobe = ∇
 Smoke Detector = \otimes
 Manual Pull Station = \square

I.4 occupancy
 Total sq ft 1900
 Sprinkled

Full Automatic & Manual System
 with monitoring
 Panel located in Storage Rm



HP Officejet 6100 Series 6110
Personal Printer/Fax/Copier/Scanner

Log for

Jan 31 2011 9:20am

Last Transaction

<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Identification</u>	<u>Duration</u>	<u>Pages</u>	<u>Result</u>
Jan 31	9:19am	Fax Sent	913602521507	0:59	3	OK

Washington State Patrol
District One - Tacoma
2502 112th Street East
Tacoma, WA 98445-5104
Phone: (253) 538-3124
Fax: (253) 538-3274



FAX

To: Kelly Meighan **Fax:** 206-726-8160

Date: 1/31/2011 **Pages:** 3

From: Donald L West, Deputy State Fire Marshal **Phone:** (253) 538-3124

Re:

Urgent **For Review at Your Request** **Please Reply**

•Comments:

Kelly thanks for helping me with this code change, your efforts are greatly appreciated.

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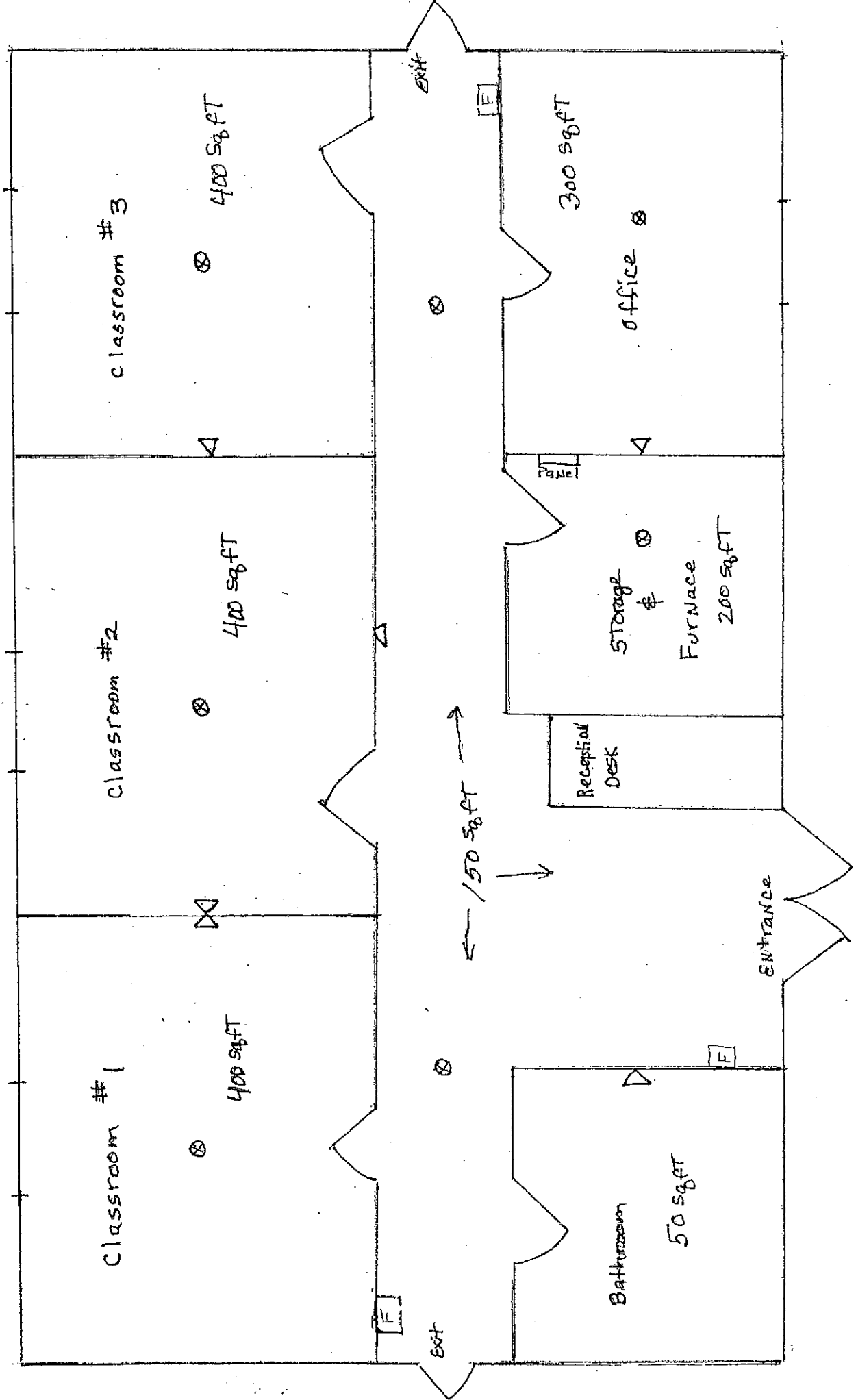
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Full Automatic & Manual System
with monitoring

Panel Located in Storage RM

I-4 occupancy
Total sqft 1900
Sprinkled

Horn Strobe = ∇
Smoke Detector = \otimes
Manual Pull Station = \square



Last Transaction

<u>Date</u>	<u>Time</u>	<u>Type</u>	<u>Identification</u>	<u>Duration</u>	<u>Pages</u>	<u>Result</u>
Jan 31	9:10am	Fax Sent	912067268160---36590	0:51	3	OK
