

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION PERMIT

Permit Number: 100274

Please Read Application And Notes, If Any, Attached

This is to certify that GODUTI ELEANOR J & JOHN H WALKER ETAL TRS/Cunningh

has permission to Install Fire Alarm

AT 9 DEERING ST CBL 046 B023001

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 lathed or otherwise closed-in. 24 HOUR NOTICE IS REQUIRED.

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

PERMIT ISSUED
OTHER REQUIRED APPROVALS
CITY OF PORTLAND

Fire Dept. [Signature] 2 APR 12 2010
Health Dept. _____
Appeal Board _____
Other _____
Department Name

[Signature] 4/8/10
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: 10-0274	Issue Date:	CBL: 046 B023001
-----------------------	-------------	---------------------

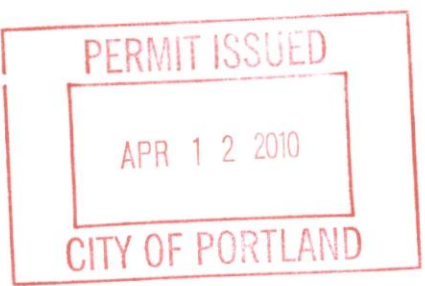
Location of Construction: 9 DEERING ST	Owner Name: GODUTI ELEANOR J & JOHN H	Owner Address: PO BOX 31	Phone:
Business Name:	Contractor Name: Cunningham Security Systems	Contractor Address: 10 Prince Point Road Yarmouth	Phone: 2078463350
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	Zone: R-6

Past Use: Commercial Office connected w/ permit# 090205	Proposed Use: Commercial Office - install Fire Alarm	Permit Fee: \$110.00	Cost of Work: \$8,800.00	CEO District: 2
Proposed Project Description: Install Fire Alarm <i>leg use: 1st floor 4 professional offices & 4 res. Duon 2nd & 3rd floors</i>		FIRE DEPT: <input checked="" type="checkbox"/> Approved <i>w/conditions</i> <input type="checkbox"/> Denied Signature: <i>[Signature]</i>		INSPECTION: Use Group: <i>B/R-2</i> Type: <i>Fire Alarm</i> <i>IBC-2003</i> Signature: <i>JMB 4/8/10</i>
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: Idobson	Date Applied For: 03/22/2010	Zoning Approval
-----------------------------	---------------------------------	------------------------

- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- 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..

Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>3/22/10</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <i>within</i> <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>3/23/2010</i> <i>D. Andrews</i>
---	--	---



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: 10-0274	Date Applied For: 03/22/2010	CBL: 046 B023001
------------------------------	--	----------------------------

Location of Construction: 9 DEERING ST	Owner Name: GODUTI ELEANOR J & JOHN H	Owner Address: PO BOX 31	Phone:
Business Name:	Contractor Name: Cunningham Security Systems	Contractor Address: 10 Prince Point Road Yarmouth	Phone (207) 846-3350
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Proposed Use: Commercial Office - install Fire Alarm	Proposed Project Description: Install Fire Alarm
--	--

Dept: Historic **Status:** Approved with Conditions **Reviewer:** Deborah Andrews **Approval Date:** 03/23/2010

Note: **Ok to Issue:**

- * Position of Knox box on building exterior to be determined by Keith Gautreau, in consultation with HP staff. Box to be located such that it has limited visual impact on historic building.

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 03/22/2010

Note: **Ok to Issue:**

- ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District.
- This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals.
- This property shall remain 4 professional offices on the 1st floor and 4 residential dwelling units on the 2nd & 3rd floors. Any change of use shall require a separate permit application for review and approval.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 04/07/2010

Note: **Ok to Issue:**

- Separate permits are required for any electrical, plumbing, sprinkler, fire alarm HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- Fire Alarm systems shall be installed per Sec. 907 of the IBC 2003

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Ben Wallace Jr. **Approval Date:** 04/07/2010

Note: **Ok to Issue:**

- Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
- As-built documents shall be submitted in pdf to the Building Inspections Office upon completion of job.
- Central Station monitoring for addressable fire alarm systems shall be by point.
- System acceptance and commissioning must be co-ordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.
- All fire alarm records required by NFPA 72 should be stored in an approved cabinet located at the FACP labeled "FIRE ALARM RECORDS". Records cabinet, FACP, annunciator(s), and pull stations shall be keyed alike.
- The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.
- Detectors in the office spaces and basement, with the exception of the panel smoke, shall be ROR heat detectors.

Location of Construction: 9 DEERING ST	Owner Name: GODUTI ELEANOR J & JOHN H	Owner Address: PO BOX 31	Phone:
Business Name:	Contractor Name: Cunningham Security Systems	Contractor Address: 10 Prince Point Road Yarmouth	Phone (207) 846-3350
Lessee/Buyer's Name	Phone:	Permit Type: Fire Alarm System	

Comments:
3/24/2010-gg: received from historic as of 03/23/10. Gg

Benjamin Wallace - 9 Deering St

From: Benjamin Wallace
To: mmajor@cunninghamsecurity.com
Date: 3/31/2010 12:06 PM
Subject: 9 Deering St
Attachments: Benjamin Wallace.vcf

Hi Michael,

Has this system installation been completed already? I just started reviewing it and have a few issues:

- There is no operations matrix or cut sheets for other than the panel and annunciator,
- Smokes are not appropriate for the basement (w/ the exception of over the panel) and the office spaces on the first floor. These should be ROR heat detectors.
- I expect to see everything keyed alike.

Thanks,

Benjamin A. Wallace Jr.
Fire Prevention Officer
Portland Fire Department
380 Congress Street
Portland, Maine 04101
(207)756-8096
wallaceb@portlandmaine.gov



Fire Alarm Permit

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

Installation address: 9 Deering Street CBL: 46-B-23

Exact location: (within structure) Basement

Type of occupancy(s) (NFPA & ICC): Mixed Use Residential And Commercial

Building owner: GODUTI ELEANOR J & JOHN H WALKER ETAL TRS

System Designer (point of contact): Must be Michael J. Major

Designer phone: 207-846-3350 E-mail: mmajor@cunninghamsecurity.com

Installing contractor: Cunningham Security Systems Certificate of Fitness No: 1004

Contractor phone: 846-3350 E-mail: mmajor@cunninghamsecurity.com

This is a new application: YES NO

This is an amendment to an existing permit: YES NO Permit no: _____

The following documents shall be provided with this application:

- Floor plans
- Wiring diagram
- Annunciator details
- Equipment data sheets
- Battery & voltage drop calculations
- Input/ Output Matrix
- Designer qualifications
- Electrical Permit Pulled (check alarm/com)

COST OF WORK: 8808.00

PERMIT FEE: 110
(\$10 PER \$1,000 + \$30 FOR THE FIRST \$1,000)

RECEIVED

MAR 22 2010

Dept of Building Inspections
City of Portland, Maine

The **designer** shall be the responsible party for this application. Download a new copy of this application at www.portlandmaine.gov/fire for every submittal. Submit all plans in electronic PDF in addition to full sized plans to the Building Inspections Department, 389 Congress Street, Room 315, Portland, Maine 04101.

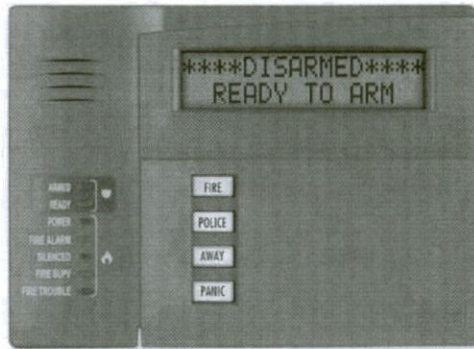
Prior to acceptance of any fire alarm system, a complete commissioning and acceptance test must be coordinated with all fire system contractors and the Fire Department, and proper documentation of such test(s) provided.

All installation(s) must comply with the *City of Portland Technical Standard for Signaling Systems for the Protection of Life and Property*, available at www.portlandmaine.gov/fire.

Applicant signature: [Signature] Date: 3.22.10

6160CR-2

COMMERCIAL FIRE ALPHA KEYPAD
UL864 REV 9 LISTED



The 6160CR-2 is an addressable remote keypad intended for use in commercial fire applications with Honeywell's commercial fire control panels. The keys are continuously backlit for convenience and easy visibility. The LCD display

is backlit only when a key is depressed*, or when the system is in alarm or trouble condition.

*Note: The LCD may be programmed to remain on at all times (see panel instructions for details).

FEATURES

- Four programmable function keys
- Built-in sounder
- Seven Status LEDs
 - Armed (Red)
 - Ready (Green)
 - Power (Green)
 - Fire Alarm (Red)
 - Silenced (Yellow)
 - Supervisory (Yellow)
 - Trouble (Yellow)
- Large easy-to-read display
- Red removable door
- Physical
5.250" W x 7.437" H x 1.312" D

SPECIFICATIONS

Sounder

- High-quality speaker

Electrical

- 45mA standby 160mA in alarm (sounder, back light and LED on)

Compatibility

- Supports Control Panels
 - VISTA-32FB Rev 5 and higher
 - VISTA-128FBP Rev 4 and higher
 - VISTA-250FBP Rev 4 and higher

UL/CUL and residential Listed for commercial fire and burglary installations. To be employed with manufacturer's listed control units as indicated in the installation instructions.

Product specifications subject to change.

ORDERING

6160CR-2

Commercial Fire Alpha Keypad

For more information: www.honeywell.com/security/hsc

Automation and Control Solutions

Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
Melville, NY 11747
1.800.467.5875
www.honeywell.com

L/6160CR2D/D
September 2009
© 2009 Honeywell International Inc.

Honeywell

Honeywell

VISTA-128FBP/V128FBP-24

COMMERCIAL PARTITIONED FIRE AND
BURGLARY ALARM CONTROL PANEL



Now UL864 9th Edition Approved

Designed to integrate seamlessly with CCTV, access control and Honeywell's full range of fire and burglary components, the new VISTA-128FBP provides the ultimate protection of life and property. The UL Listed commercial fire and burglary control panel supports up to eight partitions and up to 128 zones/points using hardwired, wireless and V-Plex®

addressable technologies. A diverse line of Honeywell initiating devices, notification circuits, communication devices, keypads, RF receivers and relays are also supported. The VISTA-128FBP has been designed to mount quickly and easily in an attack resistant cabinet, and is available in 12V and 24V models.

FEATURES

- Eight hardwired zones standard, expandable to 120 V-Plex addressable points/zones or 128 wireless points/zones
 - Can control eight separate areas independently (8 partitions)
 - Supports commercial wireless fire and burglary devices
 - Stores up to 512 events
 - Accommodates 150 user codes and up to 250 access card holders using VistaKey
 - Supports V-Plex addressable VistaKey access control (1 to 8 doors)
 - Two on-board notification (bell) circuits delivering 2.3A @ 12V or 3.4A @ 24V
 - Automatic smoke detector sensitivity maintenance testing
 - Four-wire smoke reset using onboard J2 output trigger
 - Supports Dynamic Signaling for AlarmNet Communicators
 - Supports Remote Control via the Internet*
 - Supports Internet Alarm Reporting*
 - Supports Graphical User Interface Consoles
 - Listed to UL864 9th Edition
 - Upload/download via Ethernet*
 - Carbon monoxide (CO) zone support
- * *When used with AlarmNet devices.*

SPECIFICATIONS

Applications

The VISTA-128FBP control is well suited for a variety of applications as an integrated fire and burglary control. A diverse line of Honeywell initiating devices supports this extremely powerful control. Some of the applications supported are: medical and professional buildings, churches or synagogues, office buildings, schools, strip malls, larger residences and factory or warehouse environments.

Electrical

- Primary power: 18VAC @ 72VA
Honeywell No. 1451
- Control panel quiescent current draw: 300mA
- Backup battery:
 - 12VDC, 12AH min to 34.4AH max
 - Lead acid battery (gel type)
- Alarm power: 12VDC, 1.7A max for each notification (bell) circuit output
Total 2.3A @ 12V
- Aux. standby pwr: 12VDC, 1A max
- Total power: 2.3A at 12VDC, 3.4A at 24VDC from all sources
- Standby time: 24 hours with 1A standby load using 34.4AH battery

- Fusing: Battery input, aux. and notification (bell) circuit outputs are protected using PTC circuit protectors. All outputs are power limited.

- Optional 24-volt power supply, PS 24 supplies two 24 VFW, 1.7A full wave rectified, unfiltered outputs

Main Dialer

- Line seize: Double Pole
- Ringer equiv.: 0.7B
- Formats: ADEMCO Low Speed, ADEMCO 4+2 Express, ADEMCO High Speed, ADEMCO Contact ID, SESCOA and Radionics
- Dual phone line capability (using 5140DLM module)

Cabinet dimensions

- 18" H x 14.5" W x 4.3" D

Environmental

- Storage temp: 14° F to 158° F
(-10° C to 70° C)
- Operating temp: 32° F to 122° F
(0° C to 50° C)
- Humidity: 85% RH

- EMI: Meets or exceeds the following requirements:
 - FCC Part 15, Class B Device
 - FCC Part 68
 - IEC EMC Directive

Agency Listings

- UL609 Grade A Local Mercantile Premises and Mercantile Safe and Vault
- UL611/1610 Grades A, AA, Central Station
- UL365 Grades A, AA Police Connect
- UL864/NFPA72 Local, Central Station and Remote Station
- UL985
- Factory Mutual
- California State Fire Marshal
- MEA
- CAN/ULC S304 – Central and Monitoring Station Burglar Alarm Unit
- CAN/ULC S527 – Central Unit for Fire Alarm Systems
- CAN/ULC S303 – Local Burglar Alarm Unit
- CAN/ULC S525 – Audible Signal Appliances

5881ENHC

COMMERCIAL WIRELESS RECEIVER



The new 5881ENHC RF Receiver is designed for use with control panels that are approved for use in commercial fire and/or burglary installations. The receiver recognizes alarm, status and keypad control messages from wireless

transmitters operating at 345 MHz. The receiver also features a Spatial Diversity System that virtually eliminates "nulls" and "dead spots" within the coverage area.

FEATURES

- Front and back tamper for commercial fire/burg installations
- One or two receivers can be used to provide redundant coverage or extend coverage in large areas
- Spatial Diversity System virtually eliminates "nulls" and "dead spots" within the coverage area
- Can be mounted remotely, anywhere on the keypad bus, for extended coverage
- Compatible with all 5800 series wireless devices
- Connects to control panel via the keypad bus
- UL listed for Commercial Fire/Burg applications

COMPATIBLE CONTROLS

- VISTA-32FB
- VISTA-128BP
- VISTA-128FBP
- VISTA-250BP
- VISTA-250FBP
- FA1600 series
- FA1700 series

SPECIFICATIONS

Dimensions

- 7-3/8" W x 4-3/8" (10-7/8" with antennas) H x 1-7/16" D
188mm W x 112mm H
(277mm with antennas) x 37mm D

Input Voltage

- 12VDC (from control's keypad terminals)

Current

- 60mA (typical)

Operating Temperature

- 32° F to 122° F
(0° C to 50° C)

Interface Wiring

- RED: 12VDC input (+) Aux. power
- GREEN: Data out to control
- YELLOW: Data in from control
- BLACK: Ground (-)

Range

- 200 ft (60m) nominal indoors from wireless transmitters (the actual range to be determined with the security system in the Test mode)

Installation

- See product installation instructions for details on programming and mounting

UL Listings

- Commercial Fire UL 864
- Household Fire UL 985
- Household Burg UL 1023
- Commercial Burg UL 365, UL 609, UL 1076, UL 1610
- FM
- MEA
- CSFM

ORDERING

5881ENHC

Commercial Wireless Receiver

Automation and Control Solutions

Honeywell Security & Communications
2 Corporate Center Dr. Suite 100
P.O. Box 9040
Melville, NY 11747
www.honeywell.com

L/5881ENHC/D
October 2008
© 2008 Honeywell International Inc.

Honeywell

5806W3

WIRELESS PHOTOELECTRIC SMOKE DETECTOR



Honeywell's 5806W3 is a 3V battery operated, photoelectric smoke detector with a built-in wireless transmitter. It facilitates fire verification for false alarm reduction requirements by ANSI/SIA CP-01 standards and is intended for use with any of Honeywell's 5800 Series wireless receiver/transceivers for residential installations. The 5881ENHC or 5883H receivers are required for commercial installations.

The transmitter can send alarm, tamper, maintenance (when control panels are equipped to process maintenance signals) and battery condition messages to the system's receiver. The maintenance signal fully complies with the sensitivity test requirement specified in NFPA 72, 7-2.2 and is UL approved.

The 5806W3 incorporates a state-of-the-art optical sensing chamber and advanced microprocessor. It also helps

eliminate nuisance alarms and virtually eliminates non-billable service calls and fines resulting from false alarms. The microprocessor allows the detector to automatically maintain proper operation at factory calibrated detection levels, even when sensitivity is altered due to the presence of contaminants settling into the unit's smoke chamber. A removable detector cover and chamber top allows the technician to quickly and easily clean the detector chamber without disassembling the detector head.

Since there are no holes to drill or wires to run, installers can preserve the beauty of the protected premise while protecting it. The 5806W3 is an ideal smoke detector for difficult to wire locations, applications where room aesthetics are critical or where hazardous materials exist.

FEATURES

• Smoothing Algorithms

Mathematical calculations in the detector's software that minimize nuisance alarms by smoothing out short term spikes from dust and smoke.

• Smart Check

A signal is sent to the control panel when the detector requires cleaning. This allows a regular, non-emergency service call to clean the detector before it goes into alarm.

• Drift Compensation

Virtually eliminates nuisance alarms from long-term dust build-up by automatically adjusting the detector's sensitivity.

• Removable Detector Cover and Chamber Top

Provides the technician the ability to quickly and easily clean the detector

chamber without disassembling the detector head.

• Approved UL Listings for Residential and Commercial Applications

Both residential and commercial installation requirements are met.

• Additional LED Status Indicators

Identifying between alarm or trouble conditions is easier with green and red LED status indicators. The green LED denotes a normal condition while the red LED indicates an abnormal condition.

• Easy-to-install Mounting Base

The sturdy mounting base allows the detector to be more easily installed on uneven surfaces (i.e. stucco). The mounting base has larger mounting ports to accommodate drywall anchors for easy surface mounting.

• Improved Robust RF Field Strength

The distance between the detector and receiver has been significantly increased.

Additional Features:

- Utilizes one long-life 3V lithium battery
- Microcontroller runs on an 4.0 MHz clock
- Horn operates at 3.3 KHz with sound pressure level of 85dBA at 10 feet
- Built-in wireless transmitter, temporal code 3 sounder

5806W3

WIRELESS PHOTOELECTRIC SMOKE DETECTOR

SPECIFICATIONS

- **Dimensions**
 - Diameter: 5.3", Height: 2.30"
- **Weight**
 - 8.5 oz. (without batteries)
- **Operating Temperature**
 - 32–100°F (0–37.8°C)
- **Humidity Range**
 - 0% to 95% RH, non-condensing
- **Air Velocity**
 - 1,000 ft./min. max.
- **Operating Voltage**
 - 2.5–3.6VDC
- **Standby Current**
 - 8.5 μ A avg.
- **Alarm Current**
 - 35 mA max.
- **Power Source**
 - One 3V CR123A lithium Battery†
- **Audible Output**
 - 85dB min. @ 10 ft.
- **Agency Listings**
 - UL268 – Commercial and Residential

* With adapter bracket (4.9" without mounting base)

† Replacement batteries include Duracell DL123A, Sanyo CR123A, Panasonic CR123A, or ADEMCO 466

ACCESSORIES (sold separately)

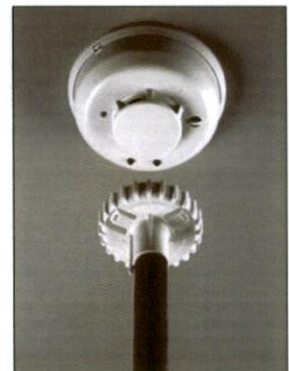
SENS-RDR Infrared Sensitivity Reader

Reduces testing time, simplifies sensitivity measurements and displays them precisely in terms of percent per foot obscuration. The SENS-RDR eliminates the need for magnets, voltmeters and ladders.



RT Removal Tool

Simplifies the attachment and removal of the detector head to the mounting base. It may be attached to a threaded extension pole or broom handle thereby eliminating the need for ladders.



ORDERING

5806W3 Wireless Photoelectric Smoke Detector with Built-in Wireless Transmitter

Accessories sold separately:

SENS-RDR Hand-held Sensitivity Reader

RT i3 Removal Tool used for easy installation and removal of head from base

Honeywell Security & Communications

Honeywell
2 Corporate Center Dr. Suite 100
P.O. Box 9040
Melville, NY 11747
www.honeywell.com

L/5806W3DS/D
February 2008
© 2008 Honeywell International Inc.

Honeywell

5809

WIRELESS HEAT DETECTOR



Honeywell's 5809 wireless fixed heat and rate-of-rise temperature sensor offers expanded fire detection and installation flexibility. It is ideal for hard to wire locations and applications that require more than smoke detection. With no wires to run, the 5809 is fast and easy to install. The 5809 combines both rate-of-rise and fixed temperature sensors. Fires typically cause a rapid rise in temperature in the

surrounding area. The 5809's rate-of-rise thermostat senses the rise in temperature and signals an alarm if the increase is 15° or more per minute. A built-in fixed temperature sensor will also signal an alarm if the environmental temperature rises above 135°F. The 5809 is UL Listed (UL521) and CSFM approved for commercial and residential applications.

FEATURES

- Contains a built-in transmitter which can send alarm, supervisory and battery condition messages to the system's receiver/control unit
- Powered by a three-volt lithium battery. If the battery voltage gets too low, the 5809 sends a low battery signal to the control panel
- Features a tamper switch, which causes a trouble signal to be sent to the control if the unit is removed from the mounting base
- UL Listed for Commercial (when using 5881EH Receiver) or Residential applications

5809

WIRELESS HEAT DETECTOR

SPECIFICATIONS:

• **Power:**

- 3V lithium battery (Duracell DL123A, Panasonic CR123A, Sanyo CR123A, Varta CR123A)
- Operating temperature: 40° to 140°F (6° to 60°C)
- Rate-of-rise temperature: 15°F (8°C) increase per minute (NOTE: Rate-of-rise sensor does not operate above 38°C)

- Fixed temperature: 135°F (57°C)
- Maximum spacing: 50 ft x 50 ft UL, 30 ft x 30 ft FM (refer to National Fire Alarm Code Standard NFPA 72 for application requirements)
- Dimensions: 4.4" diameter/2/2" deep

• **Agency Listings:**

- UL 521 Listed for Commercial (when using 5881EH Receiver) or

Residential applications

• **Wireless Transmission Path Test:**

- A good RF transmission path must be established from the proposed mounting location before permanently installing the detector. To determine that there is a good signal reception from the proposed location, perform the test procedure described in the installation instructions procedure.

MOUNTING THE DETECTOR:

- You can mount the 5809 on a wall or ceiling within the protection area:
- Wall mounting: Mount the detector 4" 6" from the ceiling
- Ceiling mounting: Mount the detector at least 4" from any wall. Make sure the normal ceiling temperature will not exceed 100°F (37.8° C).

- Refer to NFPA Standard 72 for detector spacing and other requirements. Maximum spacing for UL installations is 50' x 50'
- Avoid mounting the detector near heat generating devices (e.g. ovens, heat vents, furnaces, boilers)
- IMPORTANT: Heat detectors should

be used for property protection. Reliance should not be placed solely on heat detectors for life safety. When life safety is involved, smoke detectors MUST also be used. Detectors must not be painted.

TESTING THE DETECTOR:

The test procedure should be performed to determine a good RF transmission path and again after installation is completed.

- CAUTION: The fixed temperature sensor is intended for one-time use. Prolonged heat during testing can damage the unit. If used carefully following the instructions described below, the heat from a portable hair dryer can be used to test the unit. If the round disk on top of the detector detaches, the detector must be replaced.
- Activate the control panel's test mode

- Use either method (a) or (b) or activate the detector

- (a) Press and release the activation button on the PC board assembly OR
- (b) Holding a portable hair dryer about 12 to 18 inches away from the detector, turn the dryer on and aim the warm air at the side of the detector.

CAUTION: Aiming the dryer directly at the round disk on the detector can damage the unit to be replaced.

- The system's keypad should beep and the detector's ID should be displayed

- Exit the control's test mode
FCC ID: CFS 8DL 5809

This device complies with part 15 of FCC rules.

Operation is subject to the following conditions:

- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ORDERING

5809 Heat Detector

Honeywell Security & Custom Electronics

Honeywell
2 Corporate Center Drive Suite 100
P.O. 9040
Melville, NY 11747
www.honeywell.com

Honeywell



5140MPS-1 / 5140MPS-2 Manual Pull Stations

PRIMARY FEATURES

- ADA COMPLIANT
- KEY TEST OR ALLEN RESET
- KEYED TO ADEMCO CONTROLS
- STYLIZED HIGH TECH DESIGN
- ALUMINUM DIE CAST HOUSING
- TERMINAL BLOCK OR WIRE LEADS
- GOLD CONTACTS
- UL LISTED

■ GENERAL DESCRIPTION

Ademco's manual fire alarm stations are designed to be non-code single action devices for use in UL listed fire alarm applications. The attractive die-cast aluminum-alloy housing meets ADA pull requirements and has been tested at Underwriter's Laboratory.

For ADA compliance, manual stations must be mounted less than 48" above the floor for front wheelchair access and less than 54" above the floor for side wheelchair access.

A key reset feature on the 5140MPS-1 is designed for positive authorized resetting action. The key is designed to operate and match Ademco controls. The 5140MPS-1 utilizes a terminal block for secure terminations. The 5140MPS-2 is furnished with an Allen hex fitting and is equipped with wire leads.

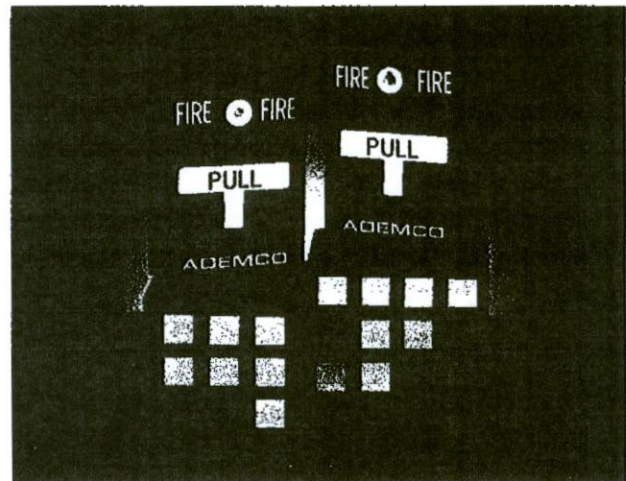
Two alarm deterrent break tubes are supplied with each manual station; one tube is visible from the front, and the spare is stored in a compartment within the unit.

■ OPERATION

Pulling the handle down causes the manual stations to latch in the down position and to close the normally open switch. The handle is restored manually by using the key to unlock the station and pivot the station forward for resetting the pull handle to its normal position. The crush tube is then inserted in the cavity and the station assembly is then locked in the normal upright position.

■ CONSTRUCTION

The 5140MPS-1 and 5140MPS-2 manual stations are constructed of a durable die-cast aluminum-alloy and



provide a neat and distinctive appearance. The housing is finished in red with white raised lettering and the "T-bar" handle is white with raised red lettering for enhanced visibility. The units are adaptable to both surface and semi-flush mounting configurations.

■ MOUNTING

SEMI-FLUSH MOUNT

Most semi-flush mount installations can be attached to a standard single-gang switch box using two 6-32 screws inserted through the slots that are centered on the unit's metal mounting plate.

SURFACE MOUNT

Use Ademco Backbox model number 5140MPS-BB for surface mount installations. The Backbox has four pre-drilled mounting holes of 0.187 inch diameter and conduit knockouts. Secure the Backbox to a wall with screws of size 8 or smaller. After the Backbox is in place, attach the conduit.

The housing is locked by using a key or Allen wrench lock. Unlock the housing by turning the key clockwise and swinging down the front of the housing to make the sheet metal mounting plate accessible. Mount the metal plate to the Backbox using the four 1/4" long, 8-32 screws (supplied).

■ DIMENSIONS

4.75" H x 3.12" W x 2" D

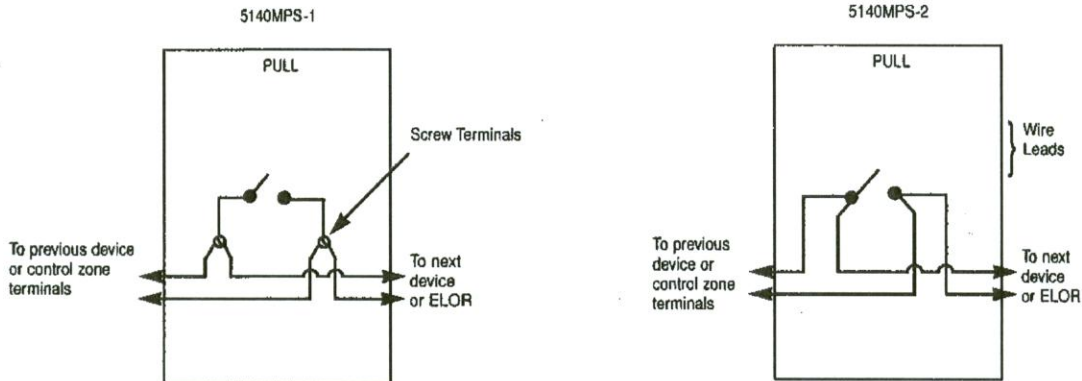
ADEMCO

The Technology Leader

■ ORDERING INFORMATION

- 5140MPS-1: Manual Station
Key Reset Test
and Terminal Block
- 5140MPS-2: Manual Station
Hex Allen Reset
Test and Wire Leads
- 5140MPS-BB: Surface Backbox

■ WIRING DIAGRAM



ARCHITECTURAL/ENGINEERING SPECIFICATIONS

Manual Fire Alarm Station Model 5140MPS-1 (5140MPS-2) shall be non-coded and include a break-type tube operated test-reset lock allowing testing with a key (Allen wrench). They shall be designed so that normal operation cannot be restored after an actual Fire Emergency Operation except by use of a key (Allen wrench). The key shall fit all standard Ademco controls.

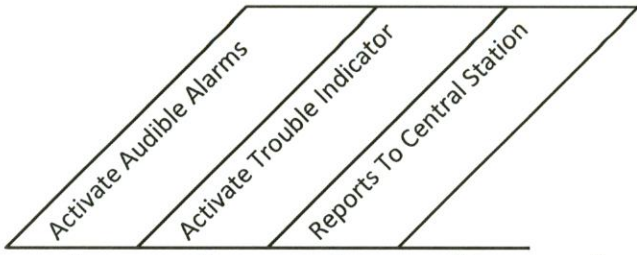
An operated station shall automatically condition itself so as to be visually detected, as operated, at a mini-

imum distance of one hundred feet, front or side. Manual Stations shall be constructed of die cast aluminum alloy with clearly visible operating instructions provided on the cover. The word FIRE shall appear on the front of the stations in raised letters. Stations shall be suitable for surface mounting on matching Backbox, or semi-flush mounting on a standard single-gang box. Manual Stations shall be Underwriter's Laboratories Listed.

ADEMCO

The Technology Leader

Deering Dwellings 9 Deering Street Portland Maine



		<i>System Input</i>					
		A	B	C	D	E	F
Panel Smoke	Alarm	★		★			
	Trouble		★	★			
Basement Heat	Alarm	★		★			
	Trouble		★	★			
First Floor Smoke	Alarm	★		★			
	Trouble		★	★			
Second Floor Smoke	Alarm	★		★			
	Trouble		★	★			
Third Floor Smoke	Alarm	★		★			
	Trouble		★	★			
Apartment Heat	Alarm	★		★			
	Trouble		★	★			
Dialer 1 Trouble			★	★			
Dialer 2 Trouble			★	★			
Comm Failure			★	★			
Low Battery			★	★			
Panel			★	★			
Wireless Device			★	★			
Expansion Trouble			★	★			
Ground Fault			★	★			

SECURITY ACCESS AND SURVEILLANCE

SECTION 13850

VISTA-128FBP

ARCHITECT AND ENGINEER SPECIFICATION

FOR

SECURITY SYSTEM

ADEMCO Group
165 Eileen Way
Syosset, New York 11791

1-800-645-7568

SECTION 13850
DETECTION AND ALARM

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes
 - 1. Control Panel
 - 2. Associated Equipment
- B. Products Installed But Not Supplied Under This Section
 - 1. Section 16140 - Wiring Devices
 - 2. Section 16530 - Emergency Lighting
- C. Related Sections
 - 1. Section 13700 - Security Access and Surveillance
 - 2. Section 13800 - Building Automation and Control

1.02 REFERENCES

- A. Underwriters Laboratories (UL):
 - 1. UL 268 – Smoke Detectors for Fire Protective Signaling Systems
 - 2. UL 365 – Police Station Connected Burglar Alarm Units and Systems
 - 3. UL 609 – Local Burglar Alarm Units and Systems
 - 4. UL 611 – Central Station Burglar-Alarm Units
 - 5. UL 636 – Holdup Alarm Units and Systems
 - 6. UL 684 – Local, Central Station, and Remote Station
 - 7. UL 864 – Control Units for Fire Protective Signaling Systems
 - 8. UL 985 – Household Fire Warning System Units
 - 9. UL 1023 – Household Burglar-Alarm System Units
 - 10. UL 1076 – Proprietary Burglar-Alarm Units and Systems
 - 11. UL 1610 – Central-Station Burglar-Alarm Units
- B. Federal Communications Commission (FCC):
 - 1. Code of Federal Regulations Title 47 - Part 15 – Radio Frequency Devices
 - 2. Code of Federal Regulations Title 47 - Part 68 – Connection of Terminal Equipment to the Telephone Network
- C. National Fire Protection Association (NFPA):
 - 1. NFPA70 – National Electrical Code.

2. NFPA 72 – National Fire Protection Code

1.03 SYSTEM DESCRIPTION

- A. The system shall be a Fire/Burglary/Access Control/CCTV Switching System that includes the following capabilities:
1. Listed for UL Commercial Fire and Burglary.
 2. Supports up to 128 zones.
 3. Supports up to eight (8) separate partitions.
 4. Supports up to 150 users.
 5. Supports commercial wireless devices.
 6. Provides integrated security, access control, and CCTV switching and commercial fire capability.
 7. Provides supervision of peripheral devices.
 8. Supports up to 96 optional relay outputs.
 9. Supports long-range radio (LRR) communication.
 10. Provides scheduling capability to allow for automated operations.
 11. Supports up to eight (8) alphanumeric paging devices.
 12. Supports panel linking.
 13. Supports alarm reporting via Internet.
 14. Interfaces with automation software.
 15. Monitors smoke detector maintenance signals.
 16. Capable of being installed using existing wiring.

1.04 SUBMITTALS

- A. Submittals shall include manufacturer data sheets for all major system components.

1.05 QUALITY ASSURANCE

- A. The alarm manufacturer shall be certified as being compliant with ISO9001.

PART 2 PRODUCTS

2.01 SYSTEM PERFORMANCE

- A. Control Panel - The control panel shall be an eight (8)-partition, UL commercial fire and burglary control panel that supports up to 128 zones using basic

hardwired, polling loop, and wireless zones. It shall also provide supervision of two (2) notification appliance output circuits (NAC), RF receivers, and relay modules. In addition, the control shall provide the ability to schedule time-driven events, and allow certain operations to be automated by pressing a single button. The system shall be capable of interfacing with an ECP long-range radio (LRR) unit that can send Contact ID messages, and alphanumeric paging devices. The control shall provide integrated access control and CCTV-switching capability with the use of a single downloader and database.

1. Basic Hardwired Zones - The control shall provide eight (8) style-B hardwire zones with the following characteristics:
 - a. EOLR supervision (optional for zones 3-8): Shall support N.O. or N.C. sensors (EOLR supervision required for UL installations).
 - b. Zones/Points shall be individually assignable to one of eight (8) partitions.
 - c. Support up to 32 two-wire smoke detectors on two selected zones (64 total).
 - d. Support four-wire smoke or heat detectors on any zone (power to four-wire smoke detectors must be supervised with an EOL device).
 - e. Support up to 50 two-wire latching glass break detectors on one selected zone.
 - f. Individually assignable to Notification Appliance (NAC) outputs and/or auxiliary relays.

2. Optional Expansion Zones
 - a. Polling Loop Expansion – The control shall support up to 120 additional hardwire zones using a built-in two-wire polling (multiplex) loop interface. The polling loop shall provide power and data to remote point modules, and constantly monitor the status of all zones on the loop. Maximum current draw shall not exceed 128 mA. The polling loop zones shall have the following characteristics:
 - (1) Interface with RPM (Remote Point Module) devices that provide Class B, Style Y (e.g., 4208U/4208SN) or a combination of Class B, Style Y, and Class A, Style Z (e.g., 4208SNF) zones.
 - (2) Individually assignable to one of eight (8) partitions.
 - (3) Individually assignable to NAC outputs or auxiliary relays.
 - (4) Supervised by the control panel.
 - (5) A 12,000 ft (3658 m) wire run capability without using shielded cable.

- (6) Each RPM (Remote Point Module) enclosure shall be tamper protected.
 - b. Wireless Expansion – The control shall support up to 128 wireless zones using a 5800 series RF receiver (fewer if using hardware and/or polling loop zones). Wireless zones shall have the following characteristics:
 - (1) Supervised by control panel for check-in signals (except certain non-supervised transmitters).
 - (2) Tamper-protection for supervised zones.
 - (3) Individually assignable to one of the partitions.
 - (4) Individually assignable to bell outputs and or auxiliary relays.
 - (5) Support wireless devices listed for Commercial Burglary using the 5881ENHC RF Receiver.
3. Partitions – The control shall provide the ability to operate eight (8) separate areas, each functioning as if it had its own control. Partitioning features shall include:
 - a. A Common Lobby partition (1-8), which can be programmed to perform the following functions:
 - (1) Arm automatically when the last partition that shares the common lobby is armed.
 - (2) Disarm when the first partition that shares the common lobby is disarmed.
 - b. A Master partition (9), used strictly to assign keypads for the purpose of viewing the status of all eight (8) partitions at the same time (master keypads).
 - c. Assignable by zone.
 - d. Assignable by keypad/annunciator.
 - e. Assignable by relay to one or all eight (8) partitions.
 - f. Ability to display fire and/or burglary and panic and/or trouble conditions at all other partitions' keypads (selectable option).
 - g. Certain system options selectable by partition, such as entry/exit delay and subscriber account number.
4. User Codes – The control shall accommodate 150 user codes, all of which can operate any or all partitions. Certain characteristics must be assignable to each user code, as follows:
 - a. Authority level (Master, Manager, or several other Operator levels). Each User Code (other than the installer code) shall be

capable of being assigned the same or a different level of authority for each partition that it will operate.

- b. Opening/Closing central station reporting option.
 - c. Specific partitions that the code can operate.
 - d. Global arming capability (ability to arm all partitions the code has access to in one command).
 - e. Use of an RF (button) to arm and disarm the system (RF key must first be enrolled into the system).
5. Peripheral Devices – The control shall support up to 30 addressable ECP devices, which can be any combination of keypads, RF receivers, relay modules, annunciator modules, and interactive phone modules. Peripheral devices have the following characteristics:
- a. Each device set to an individual address according to the device's instructions.
 - b. Each device enabled in system programming.
 - c. Each device's address shall be supervisable (via a programming option).
6. Keypad/Annunciator – The control shall accommodate up to 16 keypads or six (6) touch-screen (i.e.; advanced user interface) keypads. The keypads shall be capable of the following:
- a. Performing all system arming functions.
 - b. Being assigned to any partition.
 - c. Providing four programmable single-button function keys, which can be used for:
 - (1) Panic Functions –activated by wired and wireless keypads; reported separately by partition.
 - (2) Keypad Macros –32 keypad macro commands per system (each macro is a series of keypad commands). Assignable to the A, B, C, and D keys by partition.
7. Optional Output Relays - A total of 96 relay outputs shall be accommodated using relay modules. Each relay module shall provide four (4) Form C (normally open and normally closed) relays for general-purpose use or two (2) Class-B, Style-Y supervised notification appliance circuit outputs, when using the 4204CF module. The relays shall be capable of being:
- a. Programmed to activate in response to system events.
 - b. Programmed to activate using time intervals.

- c. Activated manually using a relay command mode.
 - d. Assigned an alpha descriptor.
 - e. Used for Class B, Style-Y supervised bell outputs (4204CF module).
 - f. A combination of 4204 (ECP) and 4101SN (polling loop) relays.
8. Optional Vista Interactive Phone Module – The control shall support the ADEMCO 4285/4286 VIP Modules, which permit access to the security system in order to perform the following functions:
- a. Obtain system status information.
 - b. Arm and disarm the security system.
 - c. Control relays.
9. Optional LED Annunciator – The control shall support the ADEMCO FSA-8 and FSA-24 annunciators, which are capable of:
- a. Visually identifying a zone or point that is in alarm or trouble.
 - b. Programmable for system silence/reset.
 - c. Up to 96 LEDs may be used in one system.
 - d. A total of four (4) FSA-24 or 12 FSA-8 annunciators may be used in one system.
 - e. An optional keyswitch, FSAKSM module, shall be available for UL listed Silence and Reset capability.
10. Notification Appliance Circuits (NAC) – The Control Panel shall internally provide two supervised NAC outputs for operating fire and burglar alarm notification appliances. It shall also support additional supervised bell outputs when using 4204CF relay modules. Each NAC output shall be rated at 10-14 VDC, 1.7 amp max power limited. Total alarm current draw when using two NAC outputs shall not exceed 2.3 amps for battery independent operation.
11. Auxiliary Relay – A built-in Form C relay shall be provided. The relay contacts shall be rated at 28 VAC/VDC, 2.8 amps maximum. The relay shall support:
- a. Alarm activation.
 - b. Trouble/supervisory activation.
 - c. Reset of four-wire smoke detectors.
 - d. Battery saving feature.
12. Integrated Access Control – The control shall be capable of the following:

- a. Providing a command that activates relays to allow access doors to open (e.g., lobby door), lights to be turned on or off, etc.
 - b. Becoming a fully integrated access control system by using numerous VistaKey Single-Door Access Control Modules.
 - c. Supporting up to eight (8) VistaKey Access Control Modules. The VistaKey Access Control Modules shall use the same Compass Downloader as the Vista-128FBP and shall be programmable from the Compass Downloader or the Keypad/Annunciators.
 - d. Assigning any number of access control relays to each partition (up to 96 for the system).
 - e. Supporting up to 250 access card holders using VistaKey.
 - f. Connecting to the ADEMCO PassPoint Access Control System via the Vista Gateway Module (VGM).
13. CCTV Switching – The System shall be capable of supporting the VistaView 100 CCTV Switching System. The CCTV system shall be fully integrated and be event driven by Fire, Burglary or Access events. When cameras are not event driven, they shall be driven by an automatic preset dwell time. The system shall also be capable of:
- a. Activating the CCTV system via a Form-C relay output.
 - b. Operating up to 60 camera inputs and 30 video outputs.
14. Commercial Wireless Equipment – The Control shall be compatible with UL Listed Commercial Wireless Fire & Security equipment including:
- a. ADEMCO 5881ENHC Commercial Fire/Burg Receiver. - The receiver shall be capable of receiving as many points as the control panel is rated for. Up to two (2) receivers may be used on any system. Receivers may be remotely located anywhere on the system Keypad/Annunciator bus.
 - b. ADEMCO 5808LST Wireless Photoelectric Smoke and Heat Detector - The device shall be UL 268 listed and shall have Maintenance Alert capability and Automatic Drift Compensation.
 - c. ADEMCO 5809 Wireless 135D Fixed Temperature and Rate of Rise Heat Detector - The device shall be UL 521 listed for commercial applications.
 - d. ADEMCO 5817CB Wireless Universal Contact Monitoring Transmitter - This device shall be capable of making any conventional UL listed contact device a wireless device. The device shall be UL listed for commercial fire and burglary applications as follows: UL 864, 985 for fire and UL 365, 609, 1023, 1076 and 1610 for security and nurse call.

- e. ADEMCO 5869 Wireless Hold Up Switch/Transmitter - This device shall be UL 636 listed for commercial burglary applications.
15. Optional Keyswitch – The control shall support the ADEMCO 4146 Keyswitch on any one of the system's eight (8) partitions. If used, zone 7 is no longer available as a protection zone.
16. Voltage Triggers – The system shall provide voltage triggers, which change state for different conditions. Used with long-range radio (LRR) equipment or other devices such as a remote keypad sounder, keyswitch ARMED and READY LEDs, or a printer to print the system's event log.
17. Event Log – The System shall maintain a log of different event types (enabled in programming). The event log shall provide the following characteristics:
- a. Stores up to 512 events.
 - b. Viewable at the keypad or through the use of Compass software.
 - c. Printable on a serial printer using a 4100SM Module including zone alpha descriptors.
 - d. Stores PassPoint access control events.
 - e. Sends printed events to up to eight (8) alphanumeric pagers.
18. Scheduling - Provides the following scheduling capabilities:
- a. Open/close schedules (for control of arming/disarming and reporting).
 - b. Holiday schedules (allows different time windows for open/close schedules).
 - c. Timed events (for activation of relays, auto-bypassing and un-bypassing, auto-arming and disarming, etc.).
 - d. Access schedules (for limiting system access to users by time)
 - e. End User Output Programming Mode (provides 20 timers for relay control).
 - f. The system shall automatically adjust for daylight savings time.
19. Communication Features - Supports the following formats and features for the primary and secondary central station receivers:
- a. Formats
 - (1) ADEMCO Low Speed (Standard or Expanded).
 - (2) Sescoa/Radionics.
 - (3) ADEMCO Express.

- (4) ADEMCO High Speed.
 - (5) ADEMCO Contact ID.
 - b. Backup reporting – The system shall support backup reporting via the following:
 - (1) Secondary phone number.
 - (2) ECP long-range radio (LRR) interface.
 - (3) Option to select long range radio (LRR) or dialup as the primary reporting method (dynamic signaling feature).
 - c. Internet reporting – The system shall be capable of communicating with the central station via the internet using Alarmnet-i. It shall provide the user with the ability to control the system via a browser interface (i.e., AOL, Netscape, Internet Explorer). All packet data transmitted to the monitoring station shall be encrypted with a minimum of 1024 bits of encryption.
20. Audio Alarm Verification Option - Provides a programmable Audio Alarm Verification (AAV) option that can be used in conjunction with an output relay to permit voice dialog between an operator at the central station and a person at the premises.
21. Cross-Zoning Capability - Helps prevent false alarms by preventing a zone from going into alarm unless its cross-zone is also faulted within five (5) minutes.
22. Pager Interface – The Control Panel shall be capable of sending event information to an alphanumeric pager via a VA-8201 pager interface device.
23. 24-Volt Power Supply – The Control Panel shall be compatible with a 24-Volt power supply module. The module shall supply two (2) 24 vdc, 3.4 amps, rectified, unfiltered outputs, which power:
- a. Alarm notification appliances, including but not limited to sirens horns, bells and strobes.
 - b. Auxiliary devices capable of operating using full-wave rectified unfiltered voltage.
24. Exit Error False Alarm Prevention Feature – The System shall be capable of differentiating between an actual alarm and an alarm caused by leaving an entry/exit door open. If not subsequently disarmed, the control panel shall:
- a. Bypass the faulted E/E zone(s) and/or interior zones and arm the system.

- b. Generate an Exit Error report by user and by zone so the central station knows it was an exit alarm and who caused it.
25. Enhanced Fire Walk-Test Mode – The Control Panel shall provide the installer with the following features:
- a. Automatic test of all integrated remote point module (RPM) devices, equipped with an automatic test feature.
 - b. While automatic test is in progress all fire zones that remain untested shall be displayed.
 - c. An event log shall be capable of logging the results of tested and untested zones.
 - d. The ability to report the result of tested and untested zones to the central station.
26. Built-in User's Manual and Descriptor Review - For end-user convenience, the control panel shall contain a built-in User's Manual. It shall include the following capabilities:
- a. By depressing any of the function keys on the keypad for five (5) seconds, a brief explanation of that function shall scroll across the alphanumeric display.
 - b. By depressing the READY key for five (5) seconds, all programmed zone descriptors shall be displayed (one at a time). This feature shall provide a check for installers and ensure all descriptors have been entered properly.
27. Programming - The Control shall be capable of being programmed locally or remotely using the ADEMCO Compass Downloader and shall be capable of:
- a. Uploading and downloading all programming information at 300 baud.
 - b. Uploading and displaying firmware revision levels from the control.
28. Panel Linking - The Control shall be capable of being networked together with up to eight other controls and being operated by any keypad within the system. It shall provide the ability for users to:
- a. Control multiple zones, partitions, and/or buildings from a central location.
 - b. Check status, arm and disarm any partition from any keypad in the system.
 - c. Globally arm or disarm partitions based upon user authority.
29. Automation Software - The Control shall be capable of interfacing with automation software via an RS232 input on a single partition.

The control panel shall be the ADEMCO VISTA-128FBP Commercial Fire/Burglary Partitioned Security System or equivalent.

2.02 ENCLOSURE

- A. The Control Panel shall be enclosed in a metal cabinet, suitable for wall mounting. The dimensions shall not exceed 18 inches (45.7 cm) in height, 14.5 inches (36.8 cm) in width or 4.3 inches (10.9 cm) in depth.

2.03 ELECTRICAL POWER REQUIREMENTS

- A. System Power – The Fire and Burglary Alarm System shall operate using standard 120 volts AC, 50/60 Hz power.
 - 1. Control Primary Power – Transformer power shall be 18 VAC, 72 VA.
 - 2. Backup Battery – A rechargeable 12 VDC, gel type, lead acid backup battery shall be provided. The battery shall be rated between 12 and 34-ampere hours (AH).
 - 3. Alarm Power – Alarm power shall be 12 VDC, 1.7 amps for each bell output
 - 4. Auxiliary Standby Power – Standby power shall be 12 VDC, 1 amp maximum.
 - 5. Total Power - Combined auxiliary standby and alarm currents shall be 2.3 amps.
 - 6. Fusing – The battery input, auxiliary, and bell outputs shall be protected using PTC circuit breakers. All outputs shall be power limited.
 - 7. Power Supply - A 24-volt power supply shall provide 24 vdc, 3.4 amps full-wave rectified, unfiltered outputs.

2.04. ENVIRONMENTAL CONDITIONS

- A. Environmental Conditions – The Fire and Burglary Alarm System shall be designed to meet the following environmental conditions.
 - 1. Storage Temperature – The system shall be designed for a storage temperature of -10° C to 70°C.
 - 2. Operating Temperature - The system shall be designed for an operating temperature of 0° C to 50°C (32° F to 120°F).

3. Humidity - The system shall be designed for normal operation in an 85% relative humidity environment.
4. Electromagnetic Interference – The system shall meet or exceed the requirements of FCC Part 15, Class B devices, FCC Part 68, IEC EMC directive.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Submission of a proposal confirms that the Contract Documents and site conditions are accepted without qualifications unless exceptions are specifically noted.
- B. The site shall be visited on a regular basis to appraise ongoing progress of other trades and contracts, make allowances for all ongoing work, and coordinate the requirements of this contract in a timely manner.

3.02 INSTALLATION

- A. The System shall be installed and tested in accordance with the Manufacturer's Installation instructions. The following conditions are applicable:
 1. In order to ensure a complete, functional System, for bidding purposes, where information is not available from the Owner upon request, the worst case condition shall be assumed.
 2. Interfaces shall be coordinated with the Owner's representative, where appropriate.
 3. All necessary backboxes, pullboxes, connectors, supports, conduit, cable, and wire shall be furnished and installed to provide a complete and reliable System installation. Exact location of all boxes, conduit, and wiring runs shall be presented to the Owner for approval in advance of any installation.
 4. All conduit, cable, and wire shall be installed parallel and square with building lines, including raised floor areas. Conduit fill shall not exceed forty percent (40%). All wires shall be gathered and tied up to create an orderly installation.

3.03 TESTING AND CERTIFICATION

- A. The Contractor shall demonstrate the functionality of the System upon completion of installation, documenting the result of all tests and providing these results to the Owner. The System shall be tested in accordance with the following:

1. The Contractor shall conduct a complete inspection and test of all installed equipment. This includes testing and verifying connection to equipment of other Divisions.
2. The Contractor shall provide staff to test all devices and all operational features of the System for witness by the Owner's representative and the Authority having jurisdiction. The Contractor shall provide two-way radio communications to assist in the testing. All testing must be witnessed by the owner's representative, prior to acceptance.
3. The testing and certification shall take place as follows:
 - a. System shall be tested in conjunction with the manufacturer's representative.
 - b. All deficiencies noted in the above test shall be corrected.
 - c. Test results shall be submitted to the consultant or owner's representative.
 - d. System test witnessed by owner's representative and correction of any deficiencies noted.
 - e. The owner's representative shall accept the System.
 - f. System test shall be witnessed by the Authority having Jurisdiction, and any deficiencies that are noted shall be corrected.
4. A letter of certification shall be provided to indicate that the tests have been performed and all devices are operational.

END OF SECTION

AUXILIARY POWERED DEVICES	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
PS24 24 volt Power Supply Module	0	0	50	100			0	0	0
4100SM (no more than one per system)	0	0	25	0			0	0	0
4204: Enter no. of relays used	0	0	40	0			0	0	0
4204CF: Enter no. of relays used	0	0	80				0	0	0
4285 Voice Module	0	0	160				0	0	0
4286 with warning speakers	0	0	220	300			0	0	0
5140DLM Backup Dialer Module	0	0	5	15			0	0	0
5800RP wireless repeater module	0	0	100				0	0	0
5800TM wireless xmtr module	0	0	20				0	0	0
5881EN receiver	2	0	60				120	0	0
5883 hi-security receiver	0	0	80				0	0	0
UVS-QM	0	0	75	110			0	0	0
VA8200 Panel Linking Module	0	0	88	0			0	0	0
VA8201 Alpha Pager Module	0	0	165	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Communicators									
7845GSM/7845i-GSM	0	0	10				0	0	0
7845i/7845i-ENT	0	0	110				0	0	0
GSMCF/iGSMCF Fire Communicator	0	0	10				0	0	0
7847i/7847i-E Internet Communicator	0	0	75				0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
Add'l Device (enter quant. & currents)	0	0	0	0			0	0	0
PIR Motion Detectors									
IS215T <input type="checkbox"/> LED Active?	0	0	7				0	0	0
IS215TCE	0	0	18				0	0	0
IS2260/IS2260T <input type="checkbox"/> LED Active?	0	0	4				0	0	0
IS2460	0	0	9				0	0	0
IS2500LT	0	0	25				0	0	0
IS2535/IS2535T	0	0	20				0	0	0
IS2560/IS2560T	0	0	20				0	0	0
IS2560TC	0	0	25				0	0	0
IS310/IS320 Request to Exit (RTE)	0	0	35				0	0	0
997 Ceiling Mount PIR <input type="checkbox"/> LED Active?	0	0	12				0	0	0
998 Wall Mount PIR <input type="checkbox"/> LED Active?	0	0	13				0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Dual Tech Motion Detectors									
DT-515	0	0	20	0			0	0	0
DT-6100STC	0	0	35	0			0	0	0
DT-7235T	0	0	20	0			0	0	0
DT-7435/DT-7435C	0	0	30	0			0	0	0
DT-7450/DT-7450MIC	0	0	35	0			0	0	0
DT-7550	0	0	40	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0
Motion Detctrs (enter quant. & currents)	0	0	0	0			0	0	0

POLLING LOOP DEVICES	Enter Quantity	How many powered by 4297?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Alarm Current	Total External Current Required
4101SN Single Output Relay Module	0	0			7	0			
4190SN Two Zone SIM	0	0			2	0			
4190WH	0	0			2	0			
4191SN-WH	0	0			0.5	0			
4192CP	0	0			0.4	0			
4192SD Photoelectric Smoke Det.	0	0			0.4	0			
4192SDT	0	0			0.4	0			
4193SN Two Zone SIM	0	0			1.5	0			
4194 Contact	0	0			1	0			
4196	0	0			1	0			
4209U	0	0			15.5	0			
4275EX Dual PIR <input type="checkbox"/> LED Active?	0	0			1	0			
4275EX-SN Dual PIR <input type="checkbox"/> LED Active?	0	0			1	0			
4278EX-SN <input type="checkbox"/> LED Active?	0	0			1	0			
4293SN	0	0			1	0			
4939SN WH/BR/GY Surf Mt. Cntct.	0	0			1	0			
4944SN Recessed Contact	0	0			1	0			
4945SN-WH	0	0			0.5	0			
4959SN Overhead Door Contact	0	0			0.5	0			
5192SD Smoke Detector	0	0			2.8	0			
5192SDT Smoke Detector with Heat	0	0			2.8	0			
998MX PIR <input type="checkbox"/> LED Active?	0	0			1	0			
IS2500SN PIR <input type="checkbox"/> LED Active?	0	0			1.6	0			
FG-1625SN Glass Break Detector	0	0			1	0			
Quest2260SN <input type="checkbox"/> LED Active?	0	0			6	0			
Vplex-VSI Short Isolator	0	0			5	0			
Vistakey	0	0			2	0			
Add'l Vplex (enter qnt'y & current)	0	0			0	0			
Add'l Vplex (enter qnt'y & current)	0	0			0	0			

12V NOTIFICATION DEVICES ON BELL OUTPUT #1	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #1	Total Sounder Current (external)
Enter device name, quant., & current	7	0		221				1547	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0

12V NOTIFICATION DEVICES ON BELL OUTPUT #2 (IF USED)	Enter Quantity	How many powered externally?	Standby (aux pwr)	Alarm Current (Aux)	Polling Loop	Total Polling Loop	Total Standby Current	Total Sounder Current from Panel Bell #2	Total Sounder Current (external)
Enter device name, quant., & current	4	0		180				720	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0
Enter device name, quant., & current	0	0		0				0	0

12V AUX POWER AND BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
Panel Aux Power Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	150.00	0	0.00	12.00	0.00
Panel Bell 1 Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	1547.00	0	0.00	12.00	0.00
Panel Bell 2 Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	720	0	0.00	12.00	0.00

PS24 Power Supply

Battery & Power Budget Calculator

© 2003 Honeywell International Inc. All Rights Reserved

Standby/Alarm Durations (from top)

Battery Standby (hours):	24
Alarm Duration (minutes):	10
Required Capacity (AH)	1.063
Use TWO identical batteries w/ this AH capacity	
	7.0

PS24 POWER SUPPLY MODULE, MAXIMUM CAPACITIES

Panel 12V Standby (mA)	Panel 12V Alarm (mA)	Output A Standby (mA)	Output A Alarm (mA)	Output B Standby (mA)	Output B Alarm (mA)	PS24 PC Board (mA)	Maximum Total Standby Output	Maximum Total Alarm Output	Max. Battery Capacity
465	2887	570	1700	570	1700	40	610	4180	34.4
0.0	0.0	0	0	0	0	40	Total Standby	Total Alarm	
							Standby Budget	Alarm Budget	
465.0	2887.0	570.0	1700.0	570.0	1700.0		570.0	4140.0	34.4

Using PS24 to back up Control Panel

Equivalent panel load @ 24V
(converted to 12VDC from 24V full-wave)
Power Budget

24V NOTIFICATION APPLIANCES Enter Device Names & Specifications	Enter Quantity	Which PS24 Output?	Device Standby Load (MA)	Device Alarm Load (MA)		Subtotal A Standby	Subtotal A Alarm	Subtotal B Standby	Subtotal B Alarm
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0
24V Notification Appliance	0	Output A	0	0		0	0	0	0

24V BELL CIRCUIT WIRE RUN DATA	Units	Wire Gauge(AWG)	Ohms per 1000 ft	Total Alarm Current Draw (mA)	Run Length	Actual Resistance (twin leads)	Voltage At EOL	Voltage Drop (Percent)
PS24 Output A Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0.00	0	0.00	24.00	0.00
PS24 Output B Wire Run (twin lead)	Feet	<Select Wire Gauge>	0.00	0.00	0	0.00	24.00	0.00

ELECTRICAL PERMIT

City of Portland, Me.



To the Chief Electrical Inspector, Portland Maine:
 The undersigned hereby applies for a permit to make electrical installations
 in accordance with the laws of Maine, the City of Portland Electrical Ordinance,
 National Electrical Code and the following specifications:

Date 3.22.10
 Permit # 2010-4171
 CBL# 46-B-23

LOCATION: 9 DEERING St METER MAKE & # _____
 CMP ACCOUNT # N/A OWNER ELEANOR GOUDIT
 TENANT _____ PHONE # _____

TOTAL EACH FEE

OUTLETS	Receptacles	Switches	Smoke Detector	.20	
FIXTURES	Incandescent	Fluorescent	Strips	.20	
SERVICES	Overhead	Underground	TTL AMPS <800	15.00	
	Overhead	Underground	TTL AMPS >800	25.00	
Temporary Service	Overhead	Underground	TTL AMPS	25.00	
				25.00	
METERS	(number of)			1.00	
MOTORS	(number of)			2.00	
RESID/COM	Electric units			1.00	
HEATING	oil/gas units	Interior	Exterior	5.00	
APPLIANCES	Ranges	Cook Tops	Wall Ovens	2.00	
	Insta-Hot	Water heaters	Fans	2.00	
	Dryers	Disposals	Dishwasher	2.00	
	Compactors	Spa	Washing Machine	2.00	
	Others (denote)			2.00	
	MISC. (number of)	Air Cond/win			3.00
		Air Cond/cent		Pools	10.00
	HVAC	EMS	Thermostat	5.00	
	Signs			10.00	
	Alarms/res			5.00	
	Alarms/com			15.00	
	Heavy Duty(CRKT)			2.00	
	Circus/Carnv			25.00	
	Alterations			5.00	
	Fire Repairs			15.00	
	E Lights			1.00	
	E Generators			20.00	
PANELS	Service	Remote	Main	4.00	
TRANSFORMER	0-25 Kva			5.00	
	25-200 Kva			8.00	
	Over 200 Kva			10.00	
			TOTAL AMOUNT DUE		
	MINIMUM FEE/COMMERCIAL 55.00		MINIMUM FEE	45.00	

RECEIVED
 MAR 22 2010
 Dept. of Building Inspections
 City of Portland Maine

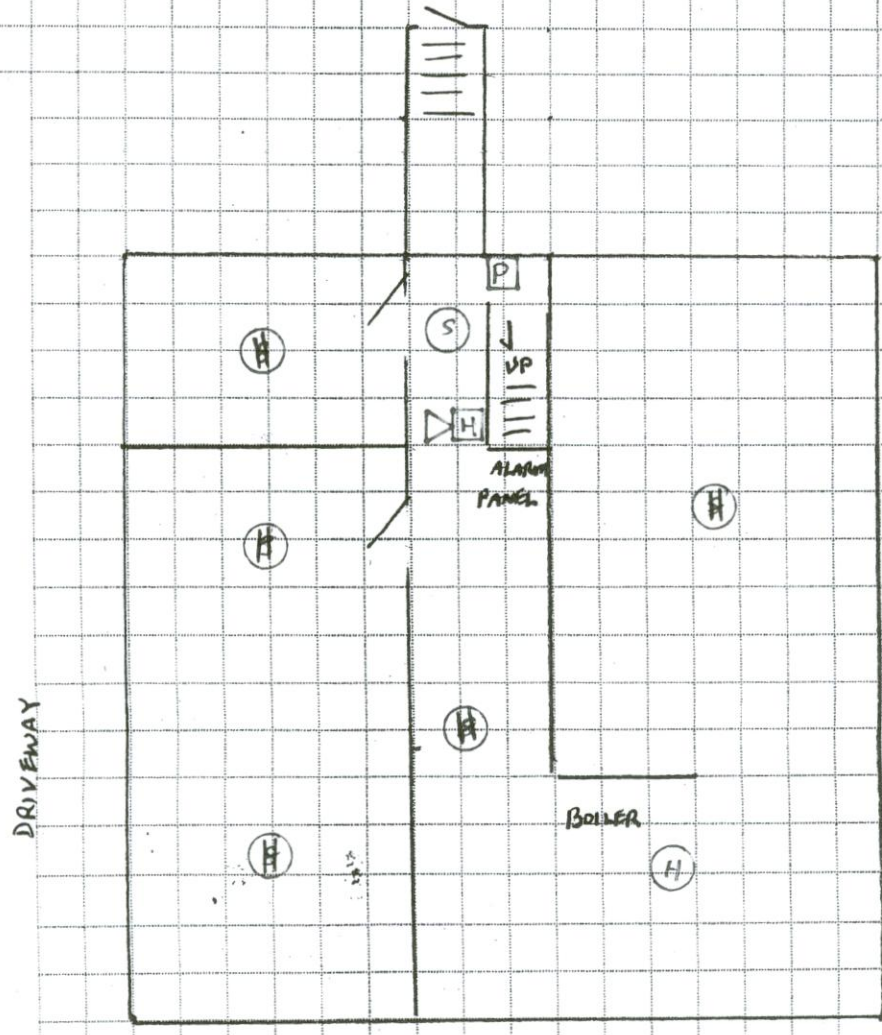
CONTRACTORS NAME CUNNINGHAM SECURITY MASTER LIC. # 17139
 ADDRESS 10 PRINCES POINT ROAD LIMITED LIC. # _____
 TELEPHONE 846-3350

SIGNATURE OF CONTRACTOR [Signature]

date
project
participants
re

goduti
774-2953 OFF FAX
770-3765 C
gbc build inc maine, inc.
9 DEERING ST.
1" = 10'
1/20/10

PARKING



Basement
Front

DEERING STREET

fax
sh. of

44 oak street
portland, maine
04101
p 207-775-3184
f 207-774-0848

goduti/

date

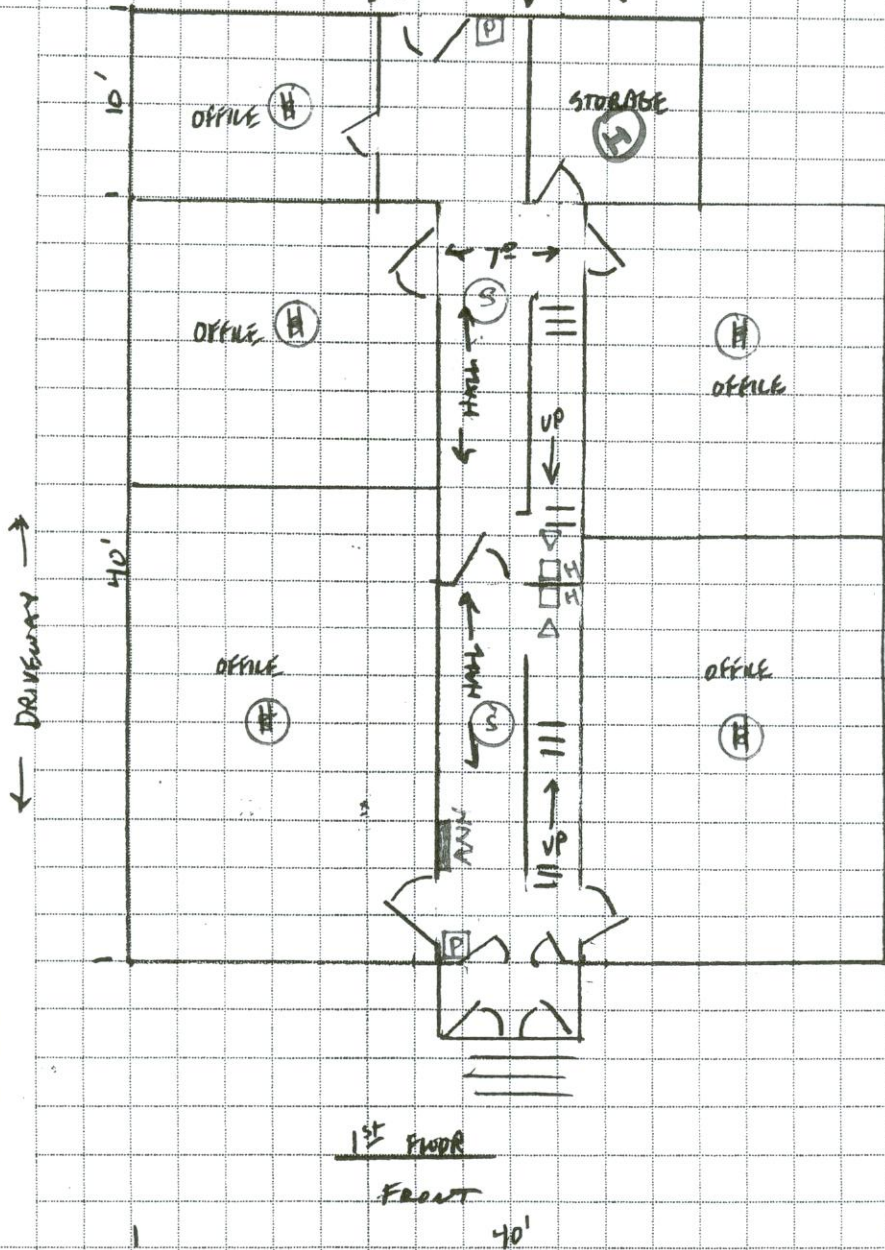
project

participants

re

PARKING SINGLE STORY (ROOF ABOVE)

9 DEERING ST.
1" = 10'
1/20/10



fax

sh. of

44 oak street

portland, maine

04101

p 207-775-3184

f. 207-774-0848

goduti/

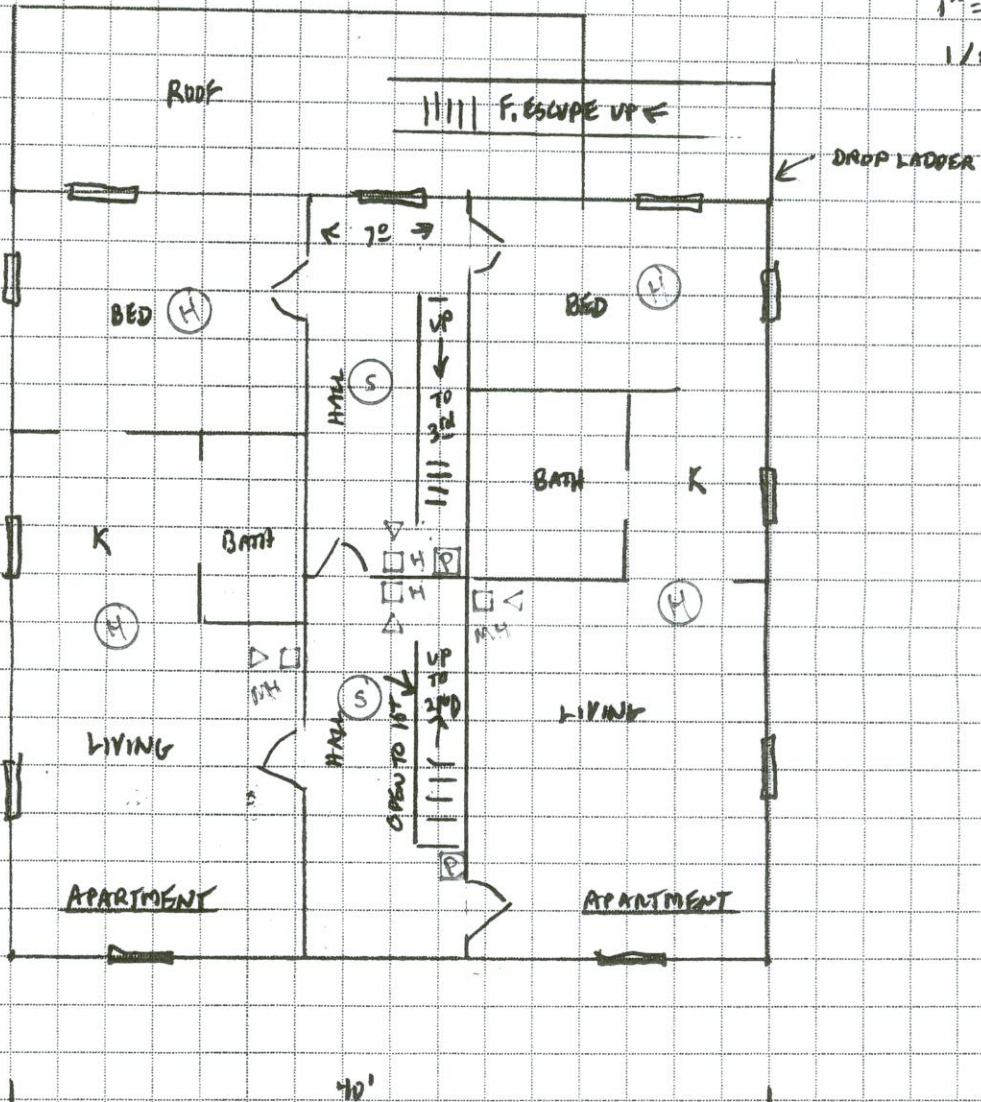
date

project

participants

re

9 DEERWICK ST.
1" = 10'
1/20/10



2nd FLOOR
FRONT

fax

sh. of

44 oak street

portland, maine

04101

p 207-775-3184

f. 207-774-9846

goduti/

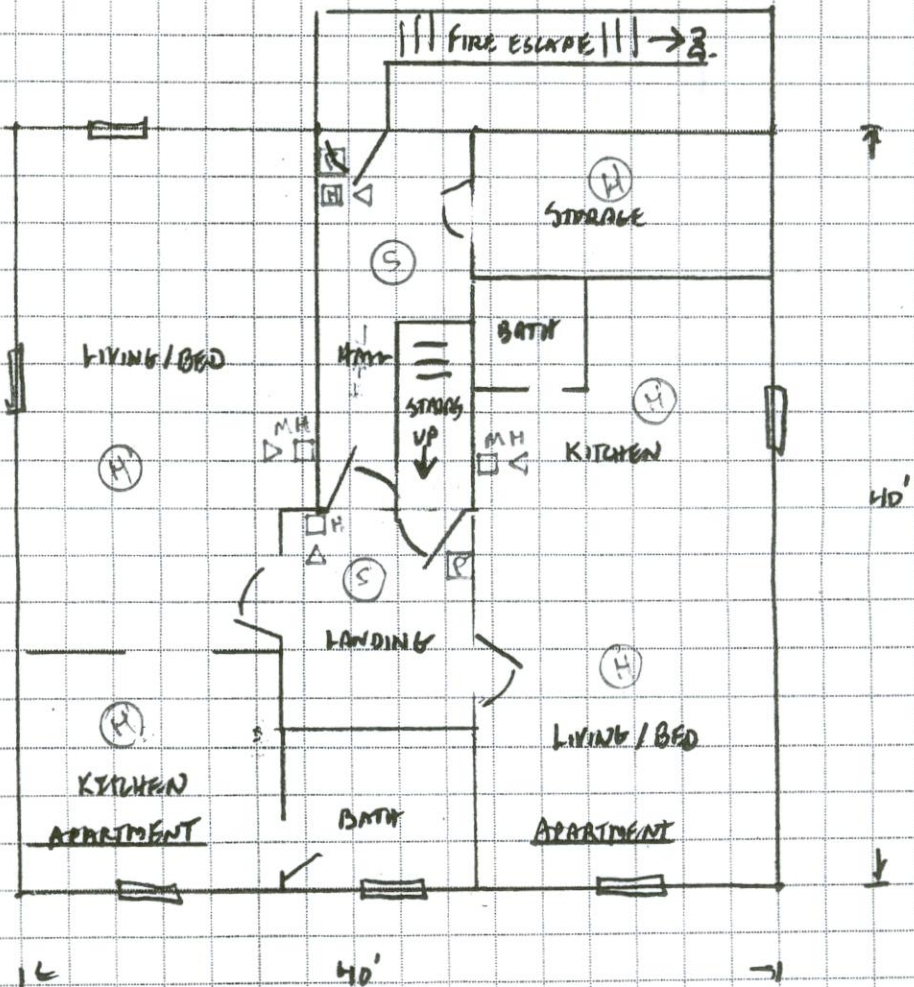
date

project

participants

re

9 DEERING ST
1" = 10'
1/20/10



3rd FLOOR
FRONT

fax

sh. of

44 oak street

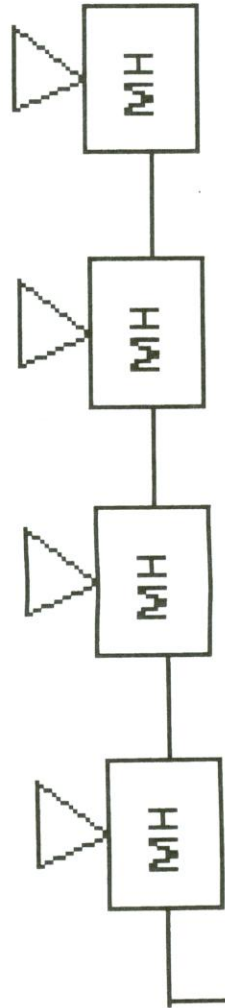
portland, maine

04101

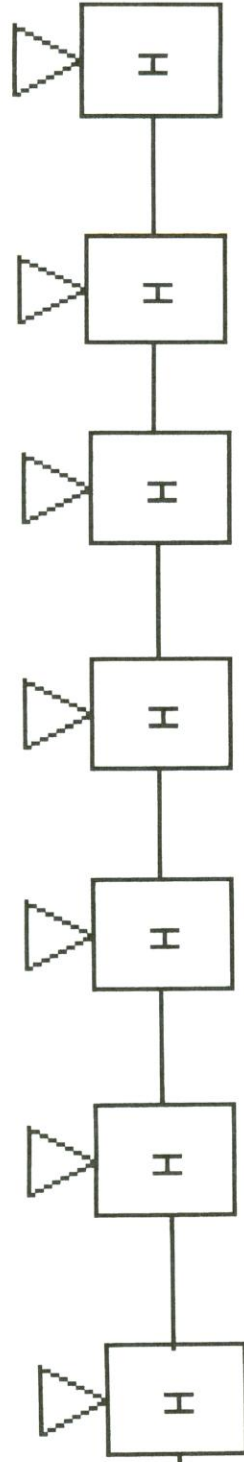
p 207-775-3184

f 207-774-0848

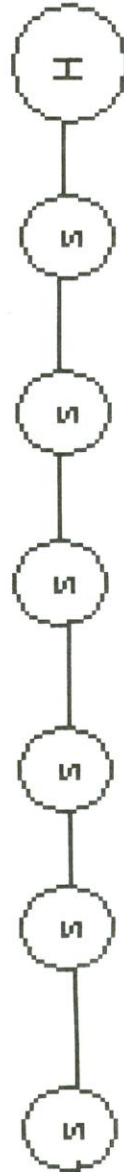
Apartment Annunciation Circuit



Common Area Annunciation Circuit

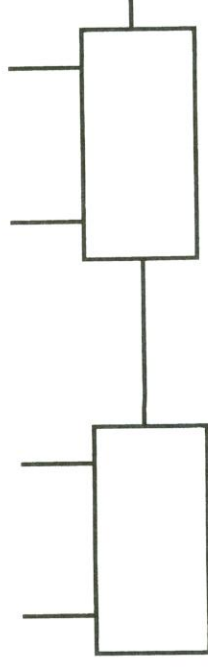


Basement Initiation Zone



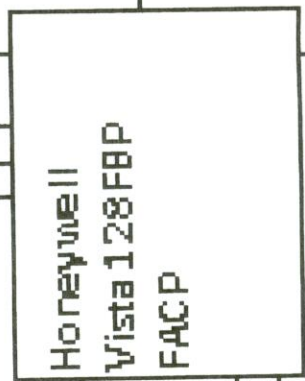
11 Wireless Smoke Det

10 Wireless Heat Det



W/L Receiver

W/L Receiver



Remote



Annunciator

Honeywell Vista 128FBP FACP

120V AC

Telco Lines

GND