

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND BUILDING PERMIT

This is to certify that A & D REALTY, LLC - LITTLE CAESAR'S PIZZA

Located At 91 AUBURN ST

CBL: 375-C-001-001

Job ID: 2011-10-2436-CH OF USE

has permission to Renovate for fit-up of vacant space to Retail w/food Prep. Little Caesar's Pizza provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

\_\_\_\_\_  
Fire Prevention Officer

 11/4/11  
\_\_\_\_\_  
Code Enforcement Officer / Plan/Reviewer

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD

**City of Portland, Maine - Building or Use Permit Application**

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

|                                                                               |                                                                                                         |                                                                                                                                                 |                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Job No:<br>2011-10-2436-CH OF USE                                             | Date Applied:<br>10/11/2011                                                                             | CBL:<br>375- C-001-001                                                                                                                          |                                                     |
| Location of Construction:<br>91 AUBURN ST                                     | Owner Name:<br>A & D REALTY, LLC                                                                        | Owner Address:<br>5 MILITIA DR<br><br>LEXINGTON, 02421 MA - MASSACHUSETTS                                                                       | Phone:                                              |
| Business Name:<br>Little Caesar's Pizza                                       | Contractor Name:<br>Otto Food erVICES, Inc                                                              | Contractor Address:<br>34 Barnfield Lane, Gorham, ME 04038                                                                                      | Phone:<br><br>(207) 415-2067                        |
| Lessee/Buyer's Name:                                                          | Phone:                                                                                                  | Permit Type:<br>BLDG - Building                                                                                                                 | Zone:<br><br>B-2                                    |
| Past Use:<br><br>Vacant                                                       | Proposed Use:<br><br>Retail - Little Caesar's Pizza -<br>fit up new space created from<br>larger space. | Cost of Work:<br>49000.00                                                                                                                       | CEO District:                                       |
|                                                                               |                                                                                                         | Fire Dept:<br><br><input checked="" type="checkbox"/> Approved w/ conditions<br><input type="checkbox"/> Denied<br><input type="checkbox"/> N/A | Inspection:<br>Use Group: M<br>Type: 2B<br>IBC-2009 |
| Proposed Project Description:<br>fit-up of vacant space to Retail w/food Prep |                                                                                                         | Signature: <i>[Signature]</i> (58)                                                                                                              | Signature: <i>[Signature]</i><br>10/4/11            |
| Pedestrian Activities District (P.A.D.)                                       |                                                                                                         |                                                                                                                                                 |                                                     |

|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Permit Taken By:                                                                                                                                                                                                                                                                                                                                                                    | <b>Zoning Approval</b>                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                               |
| <p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</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 informatin may invalidate a building permit and stop all work.</p> | <b>Special Zone or Reviews</b><br><input type="checkbox"/> Shoreland<br><input type="checkbox"/> Wetlands<br><input type="checkbox"/> Flood Zone<br><input type="checkbox"/> Subdivision<br><input type="checkbox"/> Site Plan<br><br><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM<br>Date: <i>Ok w/ conditions</i><br><i>10/27/11</i> | <b>Zoning Appeal</b><br><input type="checkbox"/> Variance<br><input type="checkbox"/> Miscellaneous<br><input type="checkbox"/> Conditional Use<br><input type="checkbox"/> Interpretation<br><input type="checkbox"/> Approved<br><input type="checkbox"/> Denied<br><br>Date: | <b>Historic Preservation</b><br><input checked="" type="checkbox"/> Not in Dist or Landmark<br><input type="checkbox"/> Does not Require Review<br><input type="checkbox"/> Requires Review<br><input type="checkbox"/> Approved<br><input type="checkbox"/> Approved w/Conditions<br><input type="checkbox"/> Denied<br><br>Date: <i>ABM</i> |
|                                                                                                                                                                                                                                                                                                                                                                                     | <b>CERTIFICATION</b>                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                               |

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 |

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Close In Elec/Plmb/Frame prior to insulate or gyp

Final Inspection / Certificate of Occupancy

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



# PORTLAND MAINE

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Director of Planning and Urban Development

Penny St. Louis

Job ID: 2011-10-2436-CH OF USE

Located At: 91 AUBURN ST

CBL: 375- C-001-001

## **Conditions of Approval:**

### **Zoning**

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. Separate permits shall be required for any new signage.
3. With the issuance of this permit and the certificate of occupancy the use of this space shall remain as retail. Any change of use shall require a separate permit application for review and approval.

### **Fire**

1. All construction shall comply with City Code Chapter 10.
2. The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
3. Fire alarm system requires a wireless master box connection per city ordinance.
4. The fire alarm system shall comply with the City of Portland Standard for Signaling Systems for the Protection of Life and Property, including requirement that the fire alarm system cover the entire plaza, have a remote annunciator on the front of the plaza with revolving red light, and AES master box updates.
5. A model 4100 Knox box shall be located at the annunciator and a model 3200 hinged Knox Box is required at the fire alarm and sprinkler room.
6. All fire alarm installation and servicing companies shall have a Certificate of Fitness from the Fire Department.
7. A separate Fire Alarm Permit is required.
8. Fire Alarm system shall be maintained. If system is to be off line over 4 hours a fire watch shall be in place. Dispatch notification required 874-8576. Master box design and installation shall be as approved by City Electrical Division.
9. The sprinkler system shall be installed in accordance with NFPA 13.
10. A separate Suppression System Permit is required for all new suppression systems or sprinkler work effecting more than 20 heads.
11. Sprinkler protection shall be maintained. Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.
12. System acceptance and commissioning must be coordinated with alarm and suppression system contractors and the Fire Department. Call 874-8703 to schedule.

13. Private fire mains and fire hydrants shall be maintained, tested and painted in accordance with NFPA 25 and City Code Chapter 10, Art IV.
14. Fire extinguishers are required per NFPA 10.
15. Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit and on the same circuit as the lighting for the area they serve.
16. Any cutting and welding done will require a Hot Work Permit from Fire Department.
17. Walls in structure are to be labeled according to fire resistance rating. IE; 1 hr. / 2 hr. / smoke proof.
18. A single source supplier should be used for all through penetrations.
19. Separate permits are required for hood and suppression systems.

## **Building**

1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
2. Equipment must be installed in compliance per the manufacturer's specifications
3. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
4. New cafe, restaurant, lounge, bar or retail establishment where food or drink is sold and/or prepared shall meet the requirements of the City and State Food Codes.
5. Approval of City license is subject to health inspections per the Food Code.
6. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.



# General Building Permit Application

B-2

2011-10-2436

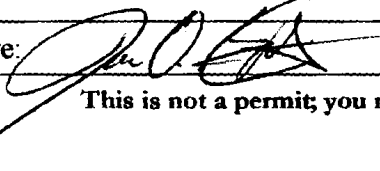
collected 10/12/11

|                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Location/Address of Construction: 91 Auburn Street                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                        |  |
| Total Square Footage of Proposed Structure/Area<br>3,540 sf renovation                                                                                                                                                                                                                                                                                                   |  | Square Footage of Lot<br>12.095 acres                                                                                                                                                  |  |
| Tax Assessor's Chart, Block & Lot<br>Chart#      Block#      Lot#<br><br>375          C          1-15-17                                                                                                                                                                                                                                                                 |  | Applicant * <b>must be owner, Lessee</b> Phone:<br>Name A & D Realty LLC<br>c/o Winslow Property Management      2020 x214<br>Address 5 Militia Dr.<br>City, State & Zip Lexington, MA |  |
| Lessee/DBA (If Applicable)<br>OTTO Food Services, Inc.<br>d/b/a Little Caesars Pizza                                                                                                                                                                                                                                                                                     |  | Owner (if different)<br>Name<br>Address<br>City, State                                                                                                                                 |  |
| Current legal use (i.e. single family) <u>Vacant</u><br>If vacant, what was the previous use? <u>Retail</u><br>Proposed Specific use: <u>Mercantile M</u><br>Is property part of a subdivision? <u>No.</u> If yes, please name subdivision:<br>Project description:<br><u>Renovation of 3,540 sf of vacant retail space for a franchise.</u>                             |  |                                                                                                                                                                                        |  |
| Contractor's name: <u>OTTO FOOD SERVICES, INC.</u><br>Address: <u>34 BARNFIELD LANE</u><br>City, State & Zip <u>GORHAM ME 04038</u> Telephone: <u>2074152067</u><br>Who should we contact when the permit is ready: <u>Jonathan Smith</u> Telephone: <u>781-674-2020 x214</u><br>Mailing address: <u>Winslow Property Management, 5 Militia Dr., Lexington, MA 02421</u> |  |                                                                                                                                                                                        |  |

**Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.**

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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:  Date: 10-11-11

**This is not a permit; you may not commence ANY work until the permit is issued.**

RECEIVED  
OCT 11 2011  
Dept. of Building Inspections  
City of Portland, Maine



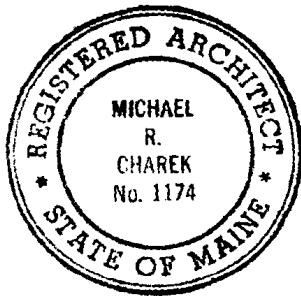
# Accessibility Building Code Certificate

**Designer:** Michael Charek Architects

**Address of Project:** 91 Auburn Street

**Nature of Project:** Renovation of existing vacant retail space into  
new Little Caesars franchise.

To the best of my knowledge and belief,



**Signature:** \_\_\_\_\_

**Title:** Principal

**Firm:** Michael Charek Architects

**Address:** 25 Hartley Street  
Portland, ME 04103

**Phone:** 207-761-0556



# Certificate of Design Application

From Designer: Michael Charek Architects  
 Date: October 3, 2011  
 Job Name: Little Caesars  
 Address of Construction: 91 Auburn Street, Portland, ME 04103

## 2009 International Building Code

## 2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC 2009 Use Group Classification (s) M Mercantile  
 Type of Construction II-B  
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC Yes  
 Is the Structure mixed use? Yes If yes, separated or non separated or non separated (section 302.3) Non separated  
 Supervisory alarm System? Yes Geotechnical/Soils report required? (See Section 1802.2) No

### Structural Design Calculations

N/A Submitted for all structural members (106.1 - 106.11)

### Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

| Floor Area Use | Loads Shown |
|----------------|-------------|
| <u>N/A</u>     | <u>N/A</u>  |
| _____          | _____       |
| _____          | _____       |
| _____          | _____       |

### Wind loads (1603.1.4, 1609)

N/A Design option utilized (1609.1.1, 1609.6)  
 \_\_\_\_\_ Basic wind speed (1809.3)  
 \_\_\_\_\_ Building category and wind importance Factor,  $I_w$   
 table 1604.5, 1609.5)  
 \_\_\_\_\_ Wind exposure category (1609.4)  
 \_\_\_\_\_ Internal pressure coefficient (ASCE 7)  
 \_\_\_\_\_ Component and cladding pressures (1609.1.1, 1609.6.2.2)  
 \_\_\_\_\_ Main force wind pressures (7603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623)

N/A Design option utilized (1614.1)  
 \_\_\_\_\_ Seismic use group ("Category")  
 \_\_\_\_\_ Spectral response coefficients,  $S_D$  &  $S_{D1}$  (1615.1)  
 \_\_\_\_\_ Site class (1615.1.5)

N/A Live load reduction  
 \_\_\_\_\_ Roof *live* loads (1603.1.2, 1607.11)  
 \_\_\_\_\_ Roof snow loads (1603.7.3, 1608)  
 \_\_\_\_\_ Ground snow load,  $P_g$  (1608.2)  
 \_\_\_\_\_ If  $P_g > 10$  psf, flat-roof snow load  $P_f$   
 \_\_\_\_\_ If  $P_g > 10$  psf, snow exposure factor,  $C_e$   
 \_\_\_\_\_ If  $P_g > 10$  psf, snow load importance factor,  $I_s$   
 \_\_\_\_\_ Roof thermal factor,  $C_t$  (1608.4)  
 \_\_\_\_\_ Sloped roof snowload,  $P_s$  (1608.4)  
 \_\_\_\_\_ Seismic design category (1616.3)  
 \_\_\_\_\_ Basic seismic force resisting system (1617.6.2)  
 \_\_\_\_\_ Response modification coefficient,  $R_f$  and  
 deflection amplification factor,  $C_d$  (1617.6.2)  
 \_\_\_\_\_ Analysis procedure (1616.6, 1617.5)  
 \_\_\_\_\_ Design base shear (1617.4, 16175.5.1)

### Flood loads (1803.1.6, 1612)

N/A Flood Hazard area (1612.3)  
 \_\_\_\_\_ Elevation of structure

### Other loads

N/A Concentrated loads (1607.4)  
 \_\_\_\_\_ Partition loads (1607.5)  
 \_\_\_\_\_ Misc. loads (Table 1607.8, 1607.6.1, 1607.7,  
 1607.12, 1607.13, 1610, 1611, 2404)





# Certificate of Design

**Date:** October 3, 2011

**From:** Michael Charek Architects

To the best of my knowledge and belief,  
These plans and / or specifications covering construction work on:

Renovation of existing vacant retail space into new Little Caesars franchise.

Have been designed and drawn up by the undersigned, a Maine registered Architect /  
Engineer according to the **2003 International Building Code** and local amendments.  
**2009 International Building Code**



Signature: \_\_\_\_\_

Title: Principal

Firm: Michael Charek Architects

Address: 25 Hartley Street

Portland, ME 04103

Phone: 207-761-0556

**A1**  
Sheet

**ISSUED FOR PERMIT**

Revisions

Date: 10/3/11

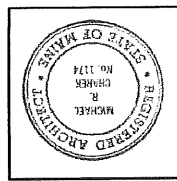
Scale: AS NOTED

PLANS AND NOTES

Title

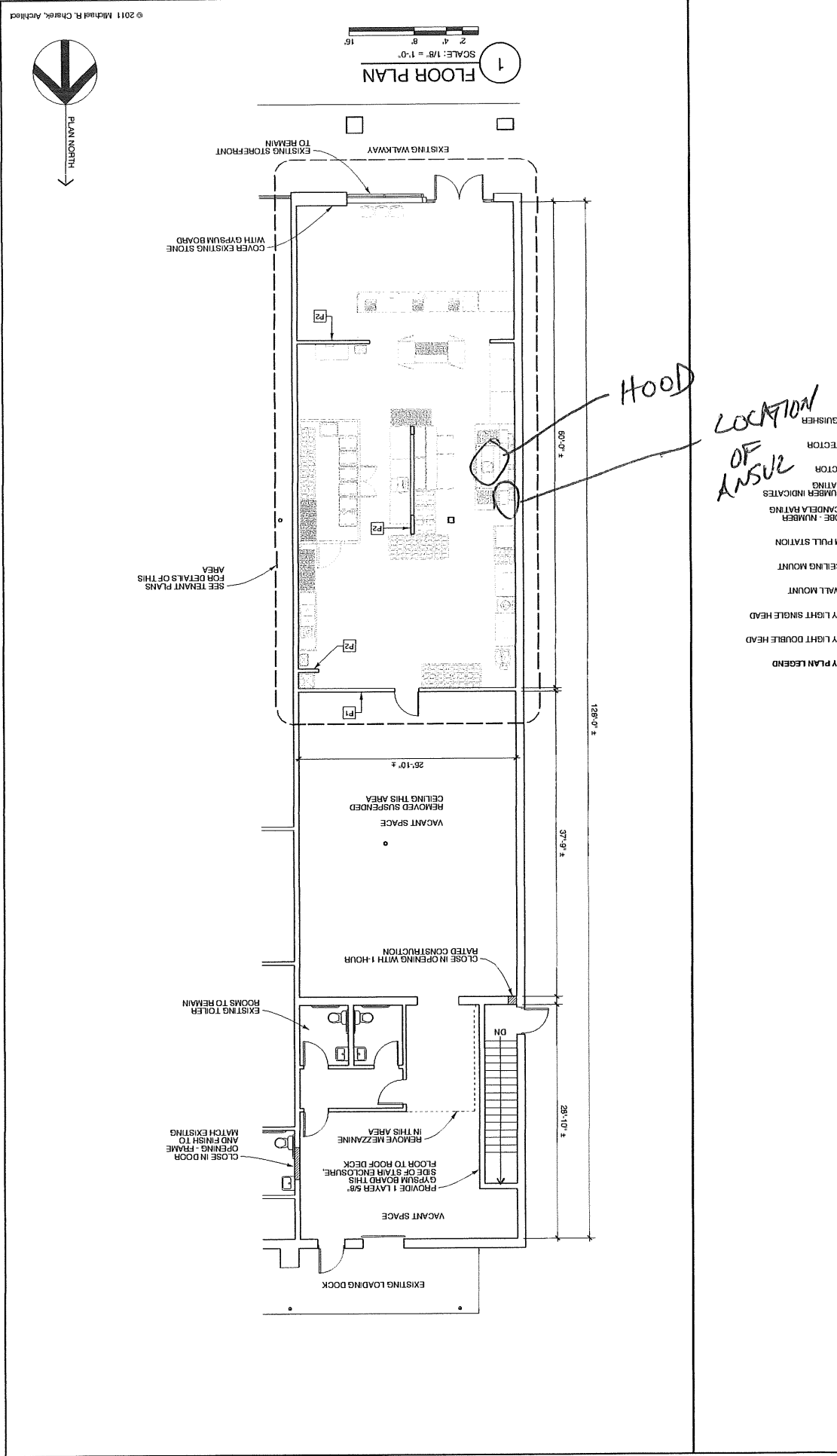
**Little Caesar Pizza**  
**Northgate Plaza**

91 Auburn Street  
Portland, ME 04103



**Michael Charek**  
**Architects**

25 Hartley Street  
Portland, Maine 04103  
(207) 761-0556





# PORTLAND MAINE

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Lee Urban - Director of Planning and Development  
Jeanie Bourke - Inspection Division Services Director

## Kitchen Exhaust System Checklist and code Provisions

Dear Applicant,

The following is a checklist to assist you in filing for a permit for a Kitchen Exhaust system. The applicable Mechanical Code provisions have also been attached. Please complete this and submit job specific construction documents that demonstrate compliance with the attached information.

### Type of System:

Type I  Type II

Type I systems are systems that vent fryers, grills, broilers, ovens or woks.

Type II systems are systems that vent steamers and other non grease producing appliances.

### Type of Materials:

Is the hood Stainless steel or other type of steel? STAINLESS If Other, what Type? N/A

Is the duct work Stainless steel or other type of steel? stainless If Other, what type? 16" X 16" X 16 GAUGE WELDED

Thickness of the steel for the hood 3/16"

Thickness of the duct for the hood 16 GAUGE "See plan"

### Type of Hood and Duct Supports

Hood sets on oven. Duct supports welded steel

Type of seams and Joints Welded Seams

Grease Gutters provided? ~~N/A~~ Grease trap at each end of hood

Hood Clearance reduction to Combustibles design /specs:

3'2" to Ceiling, 16" to wall.

Duct Clearance reduction to Combustibles design /specs:

Duct through drywall ceiling tile, fire wrap 18" above  
And below ceiling AND at Roof.

Vibration Isolation System:

N/A

Air Velocity within the duct system

Grease accumulation prevention system:

No grease. Hood has grease trap at each end.

Cleanouts At hood, EXHAUST FAN has grease trap + drain

Grease Duct enclosure N/A

Exhaust Termination

Roof



Wall

Fire Suppression System Ansul, see attached fan

Exhaust fan mounting and clearance from the roof / wall or Combustibles:

10 feet minimum

Exhaust fan distance from property lines 130' to REAR

Exhaust fan distance from other vents or openings 10 feet minimum

Exhaust fan distance from adjacent buildings 38'

Exhaust fan height above adjoining grade 18'

## Hood Specs

Style of Hood HALTON

Type of Filter Aluminum Baffle

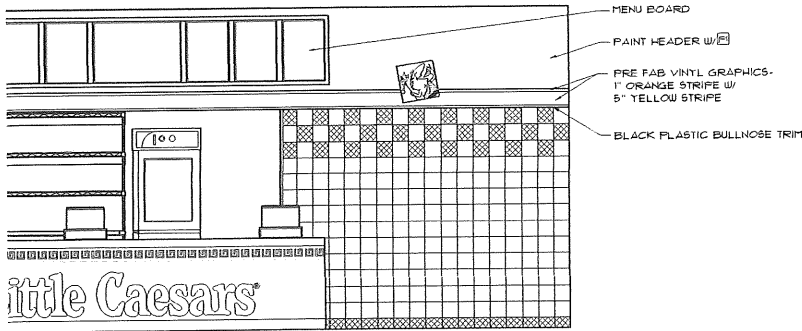
Height of filter above nearest cooking surface 18"

Capacity of hood CFM 1600

Make up Air system description and capacity

ACCUREX. See attached plan.

1140 to 1725 RPM. 742 FRPM



INTERIOR WALL ELEVATION  
 SCALE 3/8" = 1'-0"

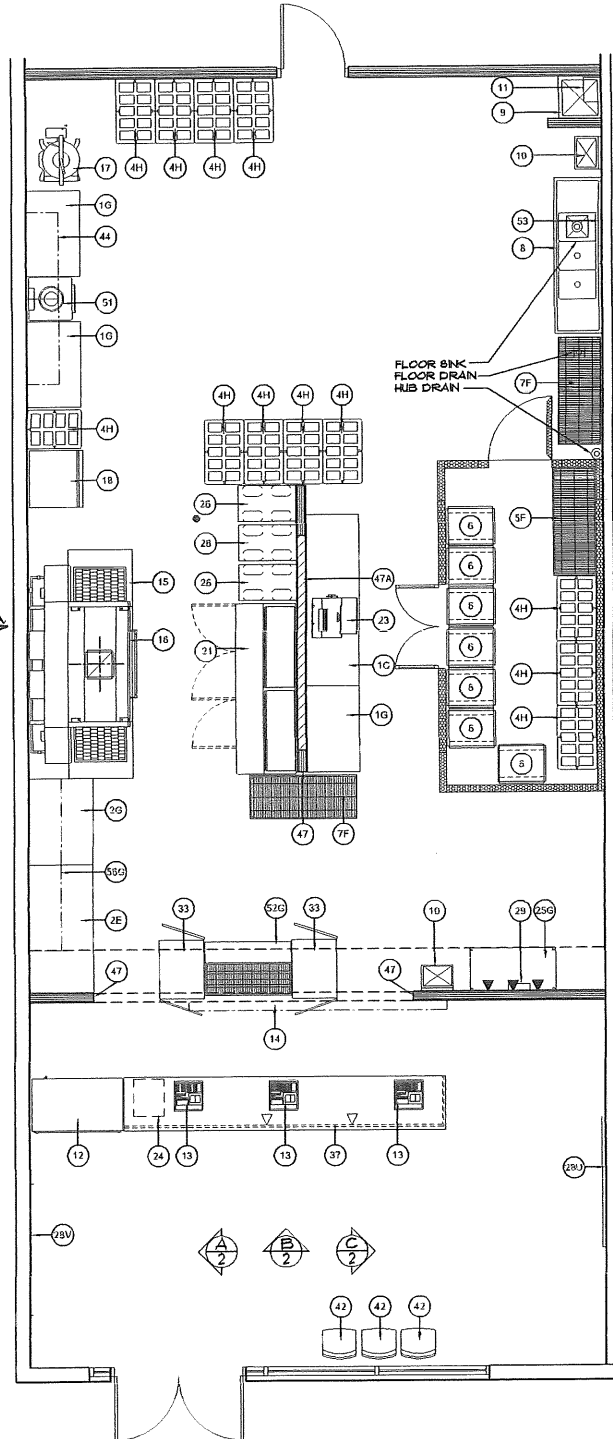


ION  
 LINE  
 1-05

PS



| FINISH QUANTITY INFORMATION |                      |
|-----------------------------|----------------------|
| LOORING                     | = 460 SQ. FT.        |
| 4 FLOORING                  | = 1060 SQ. FT.       |
| COOLER                      | = 110 SQ. FT.        |
| LE                          | = 56'-0" LINEAR FEET |
| RIPE                        | = 70'-0" LINEAR FEET |



EQUIPMENT PLAN  
 SCALE 1/4" = 1'-0"

DATE DRAWN: 08-28-2011  
 DATE REVIEW: 08-28-2011  
 OWNER REVIEW: [ ]  
 DESIGNER APPROVED: [ ]  
 CHECKED: [ ]  
 REVISIONS:

NOTE TO ALL PERSONS RECEIVING THIS DRAWING: THIS DRAWING IS CONDITIONALLY ISSUED WITHOUT SPECIFIC WRITTEN PERMISSION FROM LITTLE CAESARS. ANY REVISIONS TO THIS DRAWING MUST BE APPROVED BY LITTLE CAESARS. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION FROM THE CORPORATION.

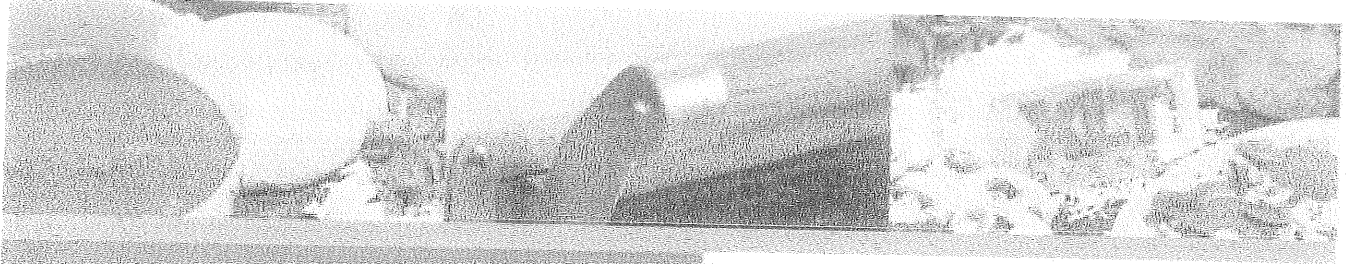
NOTICE: Attention Little Caesars franchisees, franchisee architects and contractors. These design intent drawings represent the approved layout of equipment and finishes for this Little Caesars location. Any reconfiguration or modification requires written approval from Little Caesars Architecture and Design Department. Modification without such approval may result in reconstruction or default.

**Little Caesar Enterprises, Inc.**  
 2211 WOODWARD AVENUE DETROIT, MICHIGAN 48201-3400  
 (313) 471 - 6000



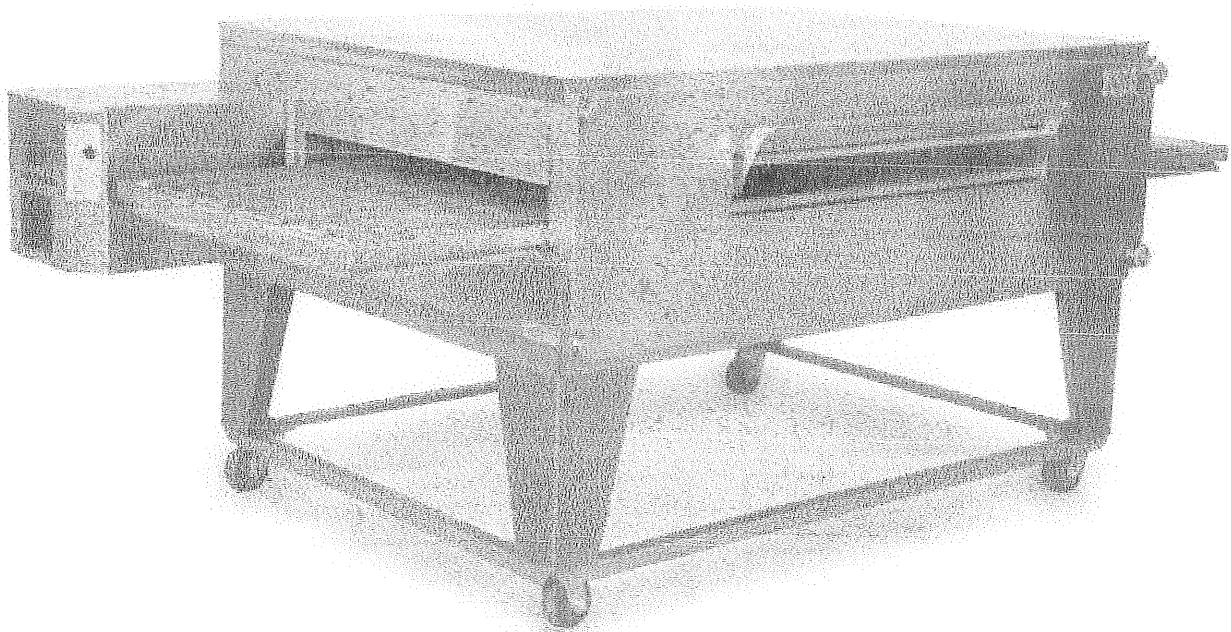
JOB: LITTLE CAESARS  
 91 AUBURN AVENUE  
 PORTLAND, ME 04105  
 ERNST  
 NO. 1842-0021  
 DRAWN BY: PGP

Oven



## XLT 3270-TS3 Quiet Fire

Natural Gas or  
Liquid Propane



CE

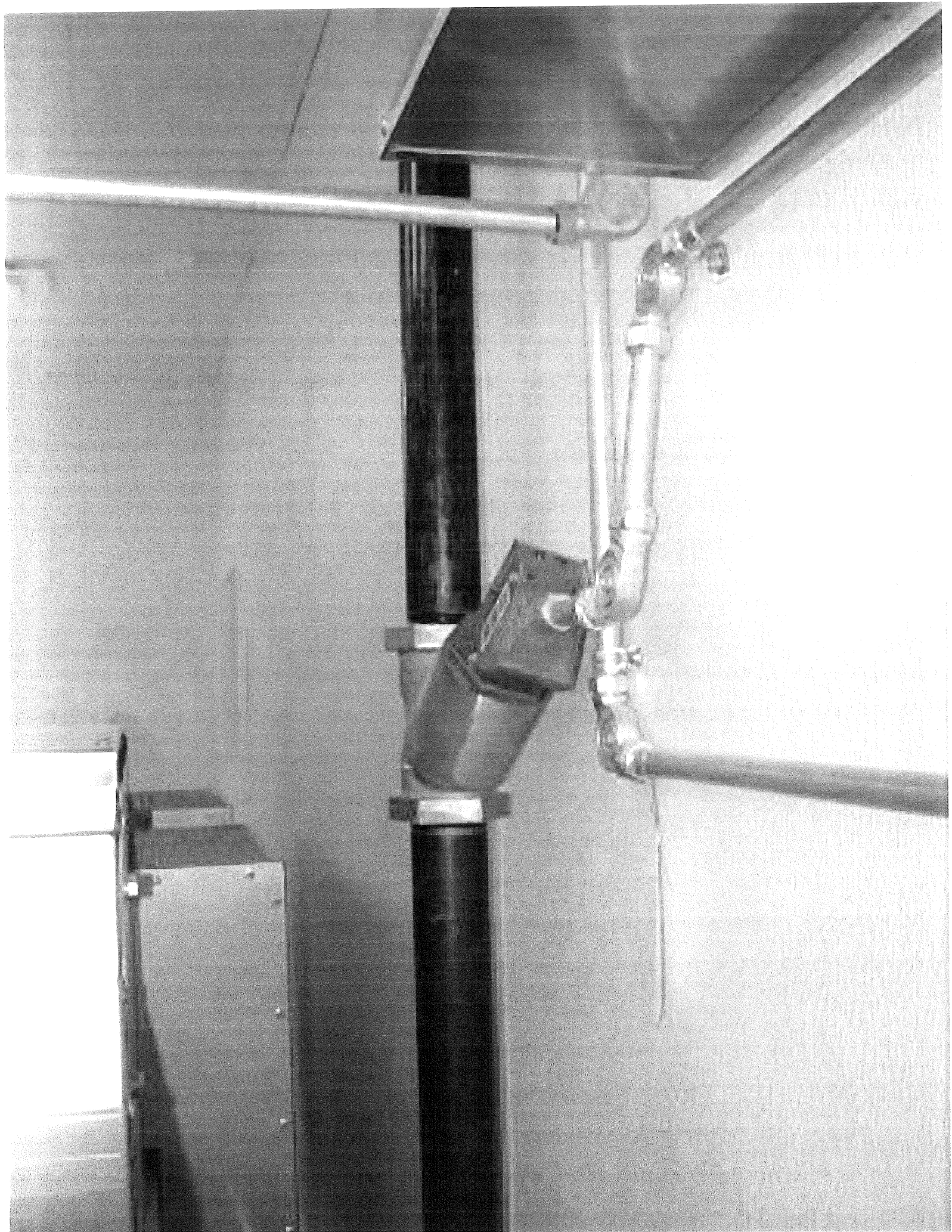
quiet  FIRE

PO Box 9090 Wichita, KS 67277-0090  
P: 1-316-943-2751 F: 1-316-943-2769  
[www.xltovens.com](http://www.xltovens.com)

**XLT**  
OVENS®

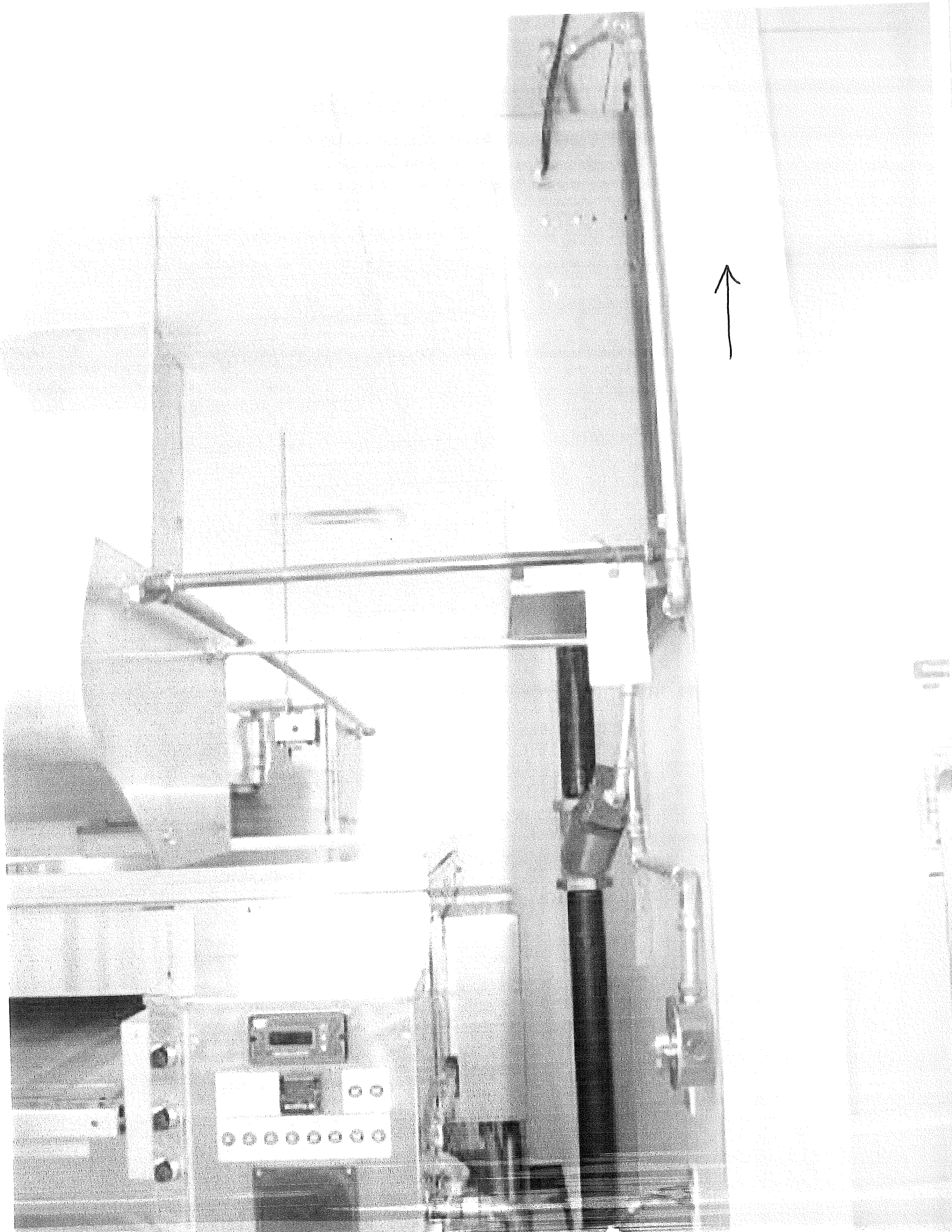
Simple. Smart.

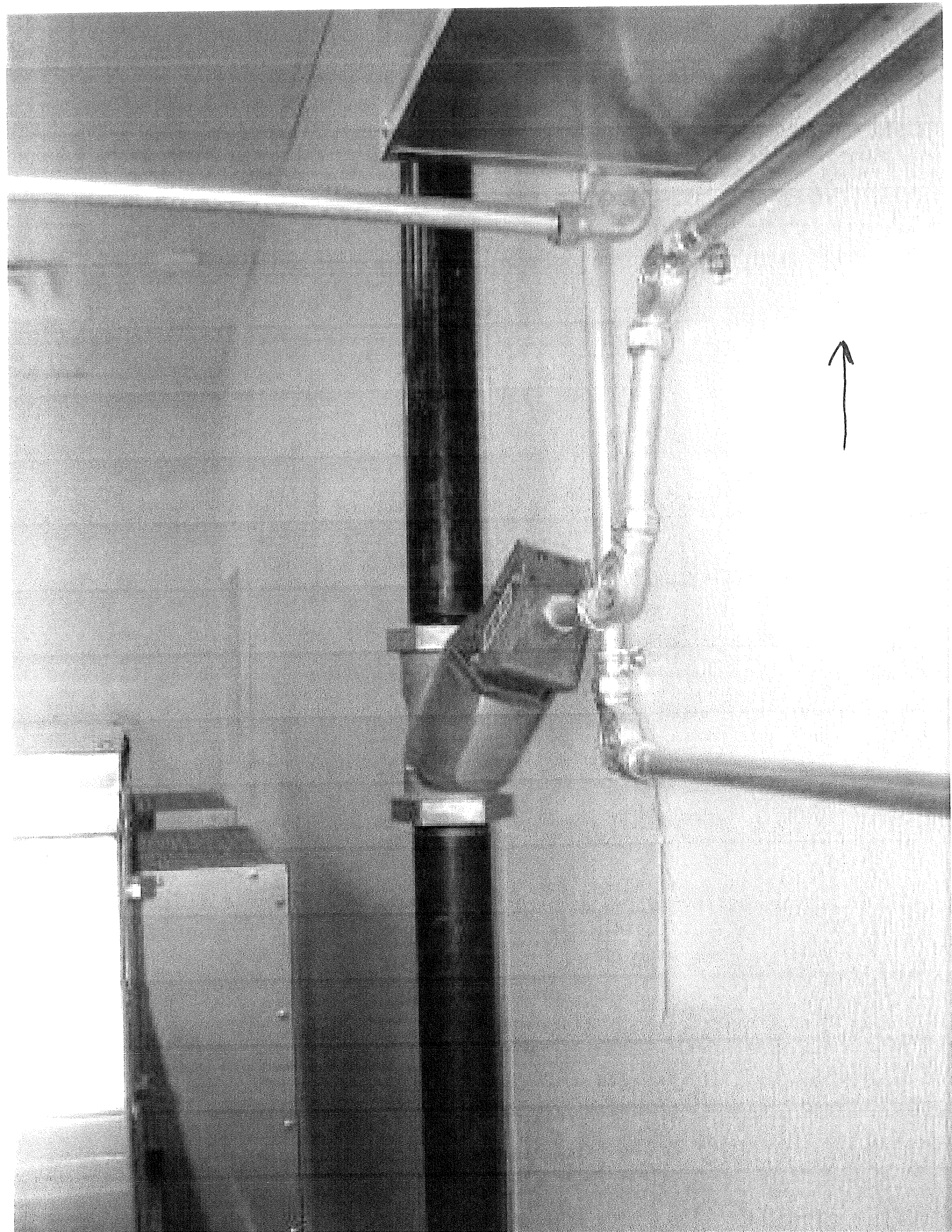


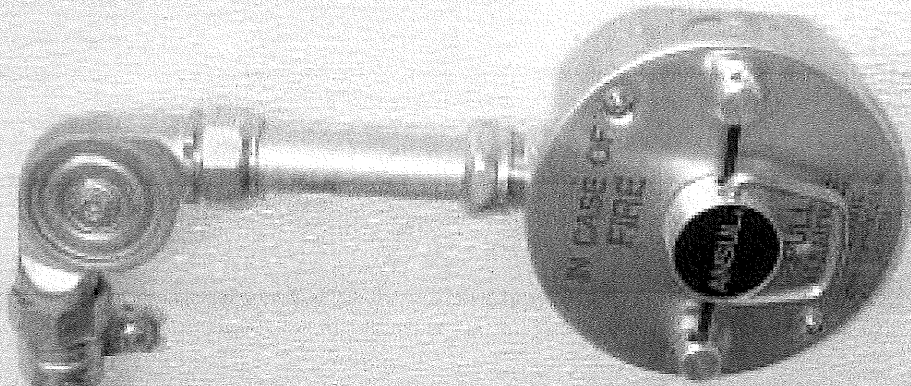
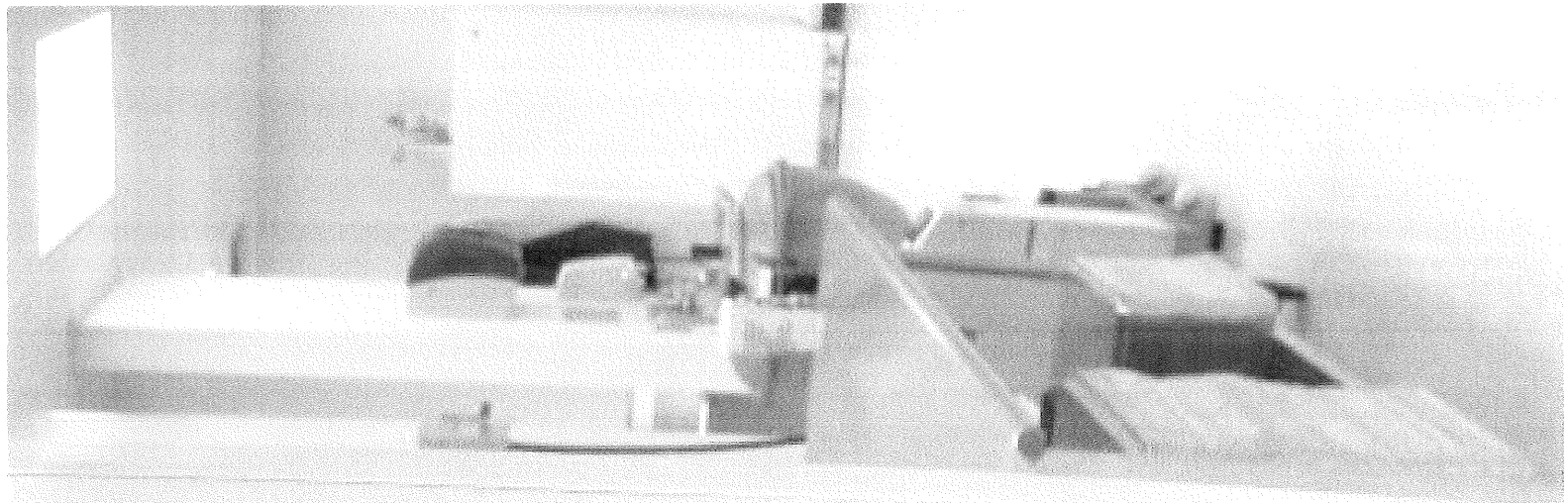










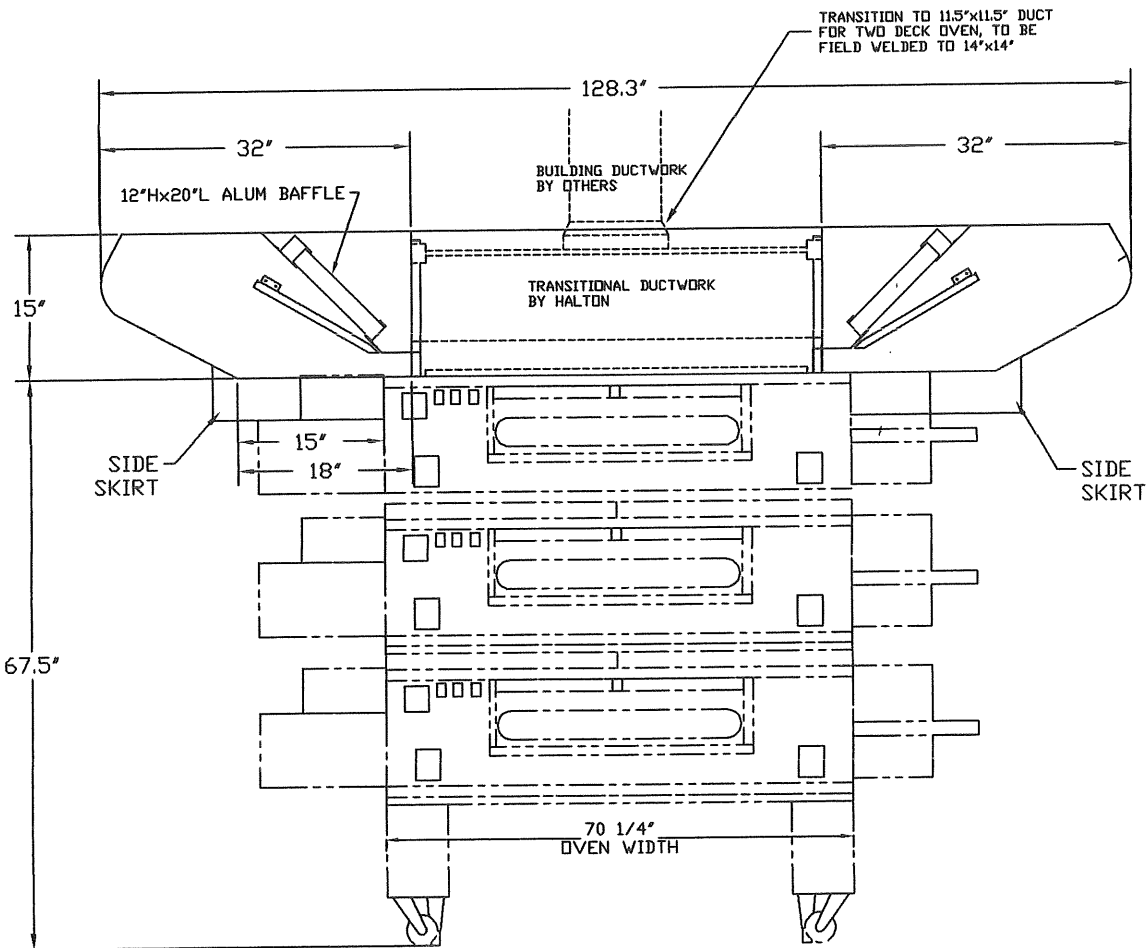
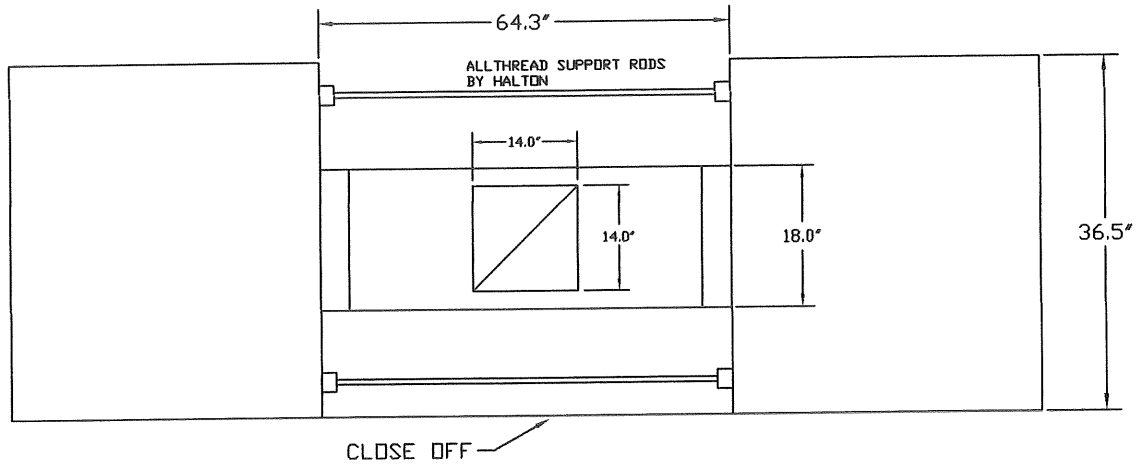


MODEL: P2

# ITEM # 697100

*HOOD*

\* FACTORY MUST BE ADVISED OF ANY SPECIAL REQUIREMENTS OF THE "AUTHORITY HAVING JURISDICTION" AT TIME OF QUOTE



EXHAUST INFORMATION

| OVEN TYPE        | DESIGN CFM | T.A.B READING | LISTING MIN CFM | T.A.B READING | DUCT STATIC |
|------------------|------------|---------------|-----------------|---------------|-------------|
| SINGLE DECK OVEN | 500        | .06"          | 396             | .04"          | --          |
| DOUBLE DECK OVEN | 1100       | .36"          | 1021            | .26"          | .50"        |
| TRIPLE DECK OVEN | 1600       | .88"          | 1460            | .53"          | 1.2"        |

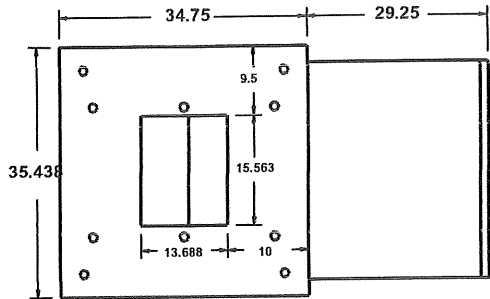
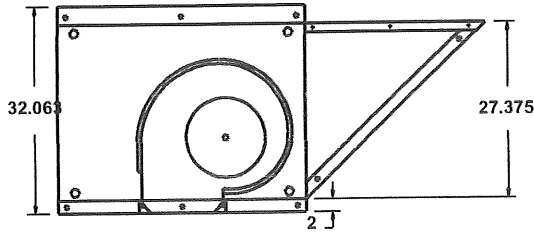


**Halton**  
CARE FOR INDOOR AIR

Supply FAN

# XRSW

## Supply Air Fan



Tag: 699134

### STANDARD CONSTRUCTION FEATURES

- Galvanized steel construction with removable hood cover
- Curb cap with prepunched mounting holes
- Blower and motor assembly isolated on shock mounts
- Forward curved steel fan wheel
- Adjustable motor pulley
- Adjustable motor plate
- Ball bearing motor
- Fan shaft mounted in ball bearing pillow blocks
- Static free belts
- Corrosion resistant fasteners
- 1 inch washable aluminum filters
- downward facing duct collar
- Nema 1 disconnect switch mounted and wiring is...

### SELECTED OPTIONS & ACCESSORIES

- Switch - Nema-3R, Toggle, Ship With Unit, Field Mounted
- Standard - 1 in Washable Aluminum Filters
- UL/cUL-705 - "Power Ventilators"
- Motor w/ Thermal Overloads

NOTES: All dimensions shown are in units of inches  
Fan weight is without accessories

### DIMENSIONS

| Approx. Fan Weight (lb) | Recommended Roof/Wall Opening: (in) |
|-------------------------|-------------------------------------|
| 194                     | 20.5 x 20.5                         |

### PERFORMANCE (Elevation ft = 650, Airstream Temperature F = 70)

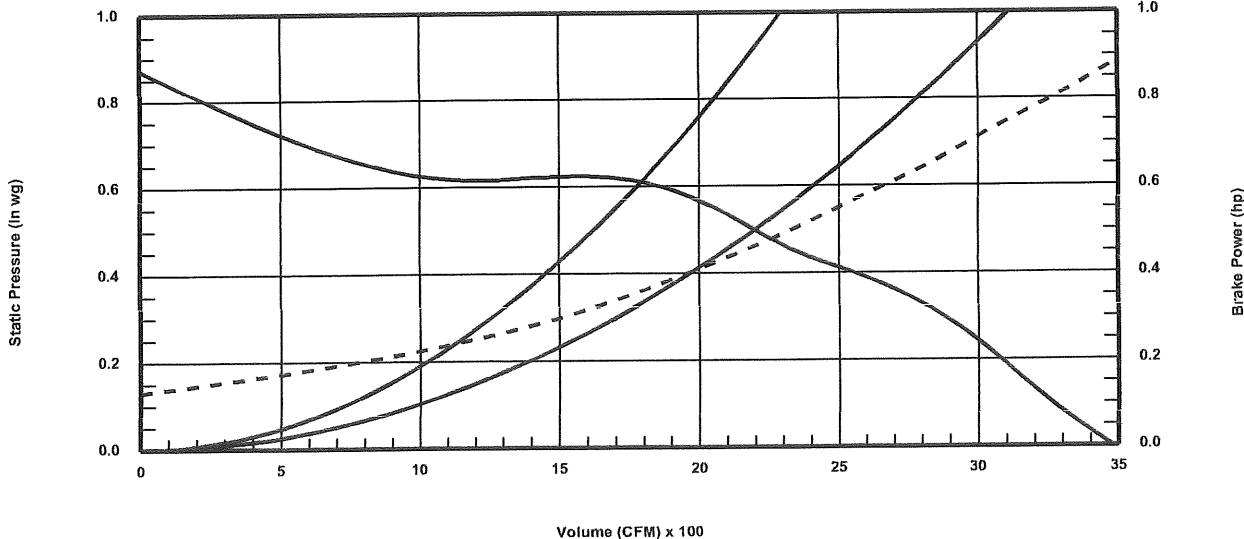
| Qty | Model      | Volume (CFM) | SP (in wg) | FRPM | Operating Power (hp) | Motor Information |          |       |            |          |             |
|-----|------------|--------------|------------|------|----------------------|-------------------|----------|-------|------------|----------|-------------|
|     |            |              |            |      |                      | Size (hp)         | V/C/P    | Encl: | Motor RPM: | Windings | NEC FLA (A) |
| 1   | XRSW-112-7 | 2,200        | 0.5        | 742  | 0.46                 | 3/4               | 115/60/1 | ODP   | 1725/1140  | 2        | 13.8        |

### SOUND

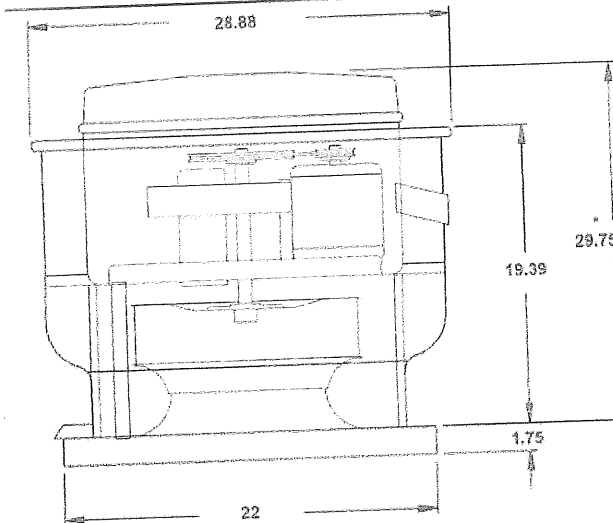
| Inlet Sound Power by Octave Band |     |     |     |      |      |      |      | Lwa | dBA | Sones |
|----------------------------------|-----|-----|-----|------|------|------|------|-----|-----|-------|
| 62.5                             | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |     |     |       |
| 90                               | 90  | 75  | 72  | 68   | 66   | 64   | 55   | 77  | 66  | 17.5  |

FLA - Based on tables 148 or 150 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.

LwA - A weighted sound power level, based on ANSI S1.4  
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5.0 ft. Sones calculated using AMCA 301 at 5.0 ft.



EXHAUST FAN



**XRUB**

Belt Drive Upblast Centrifugal Roof Exhaust Fan

Tag: 699127

**STANDARD CONSTRUCTION FEATURES**

- Aluminum housing • Backward inclined aluminum wheel • Curb cap with pre-punched mounting holes • Motor and drives isolated on shock mounts • Drain trough • Ball bearing motors • Adjustable motor pulley • Adjustable motor plate • Fan shaft mounted in ball bearing pillow blocks • Bearings meet or exceed temperature rating of fan • Static resistant belts • Corrosion resistant fasteners

**SELECTED OPTIONS & ACCESSORIES**

- Switch - Nema-3R, Toggle, Ship With Unit, Field Mounted
- Curb GPI-22-G24
- Heat Baffle
- Grease Trap with Drain Connection
- Mounted Hinged Base
- Lifting Lugs
- UL/cUL-762 - "Power Vent. for Rest. Exh. Appliances"
- Hinged Curb Cap Mounted with Cables
- Curb Seal

\* May be greater depending on motor

NOTES: All dimensions shown are in units of inches  
Fan weight is without accessories

**DIMENSIONS**

| Approx. Fan Weight (lb) | Recommended Roof/Wall Opening: (in) |
|-------------------------|-------------------------------------|
| 87                      | 18.5 x 18.5                         |

UPDATE

115 VOLT 1 PHASE 60 CYCLE

PERFORMANCE (Elevation ft = 650, Airstream Temperature F = 70)

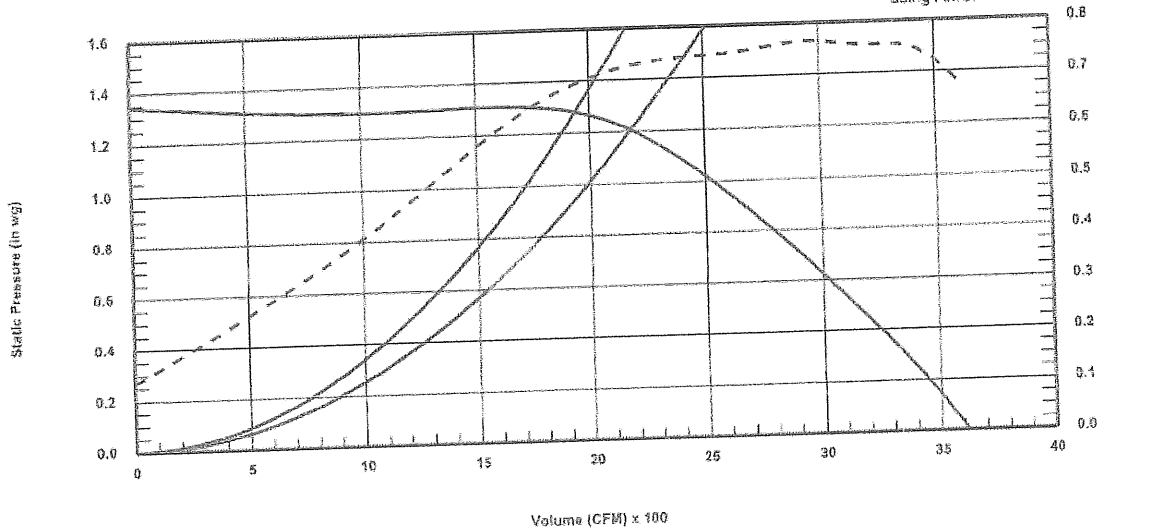
| Qty | Model       | Volume (CFM) | SP (in wg) | FRPM  | Operating Power (hp) | Motor Information |                    |       |            |          |             |
|-----|-------------|--------------|------------|-------|----------------------|-------------------|--------------------|-------|------------|----------|-------------|
|     |             |              |            |       |                      | Size (hp)         | VIC/P              | Encl: | Motor RPM: | Windings | NEC FLA (A) |
| 1   | XRUB-161-10 | 2,175        | 1.2        | 1,259 | 0.72                 | 1                 | <del>208/230</del> | ODP   | 1725/1140  | 2        | 4.6         |

FLA - Based on tables 148 or 150 of National Electrical Code 2002. Actual motor FLA may vary, for sizing thermal overload, consult factory.

**SOUND**

| Inlet Sound Power by Octave Band |     |     |     |      |      |      |      | Lwa | dBA | Sones |
|----------------------------------|-----|-----|-----|------|------|------|------|-----|-----|-------|
| 62.5                             | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |     |     |       |
| 75                               | 79  | 79  | 77  | 73   | 68   | 66   | 63   | 78  | 67  | 15.3  |

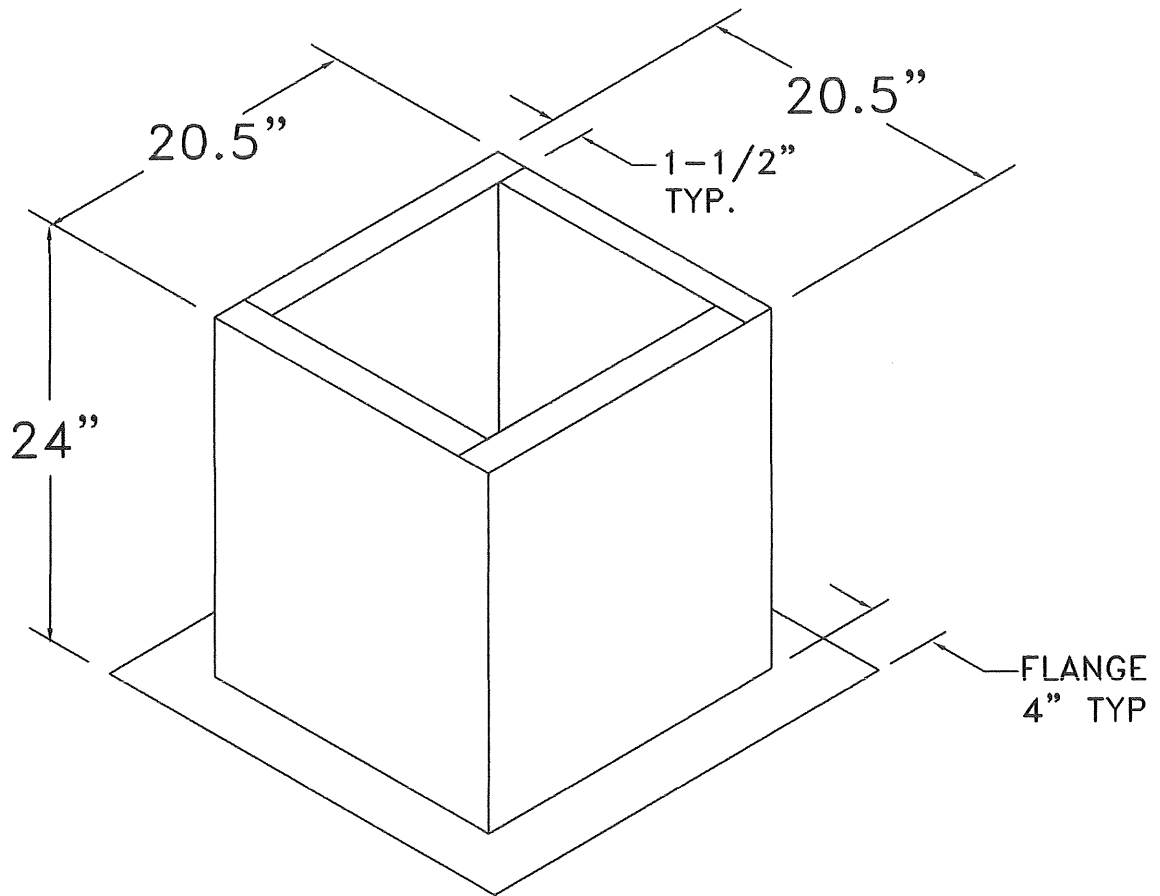
LWA - A weighted sound power level, based on ANSI S1.4  
dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5.0 ft. Sones calculated using AMCA 301 at 5.0 ft.



CURB'S

VENT TECH INC.

16521 EASTLAND  
ROSEVILLE, MI 48066  
PH: (800) 557-8368  
FAX: (586) 779-0888  
www.vent-tech.com



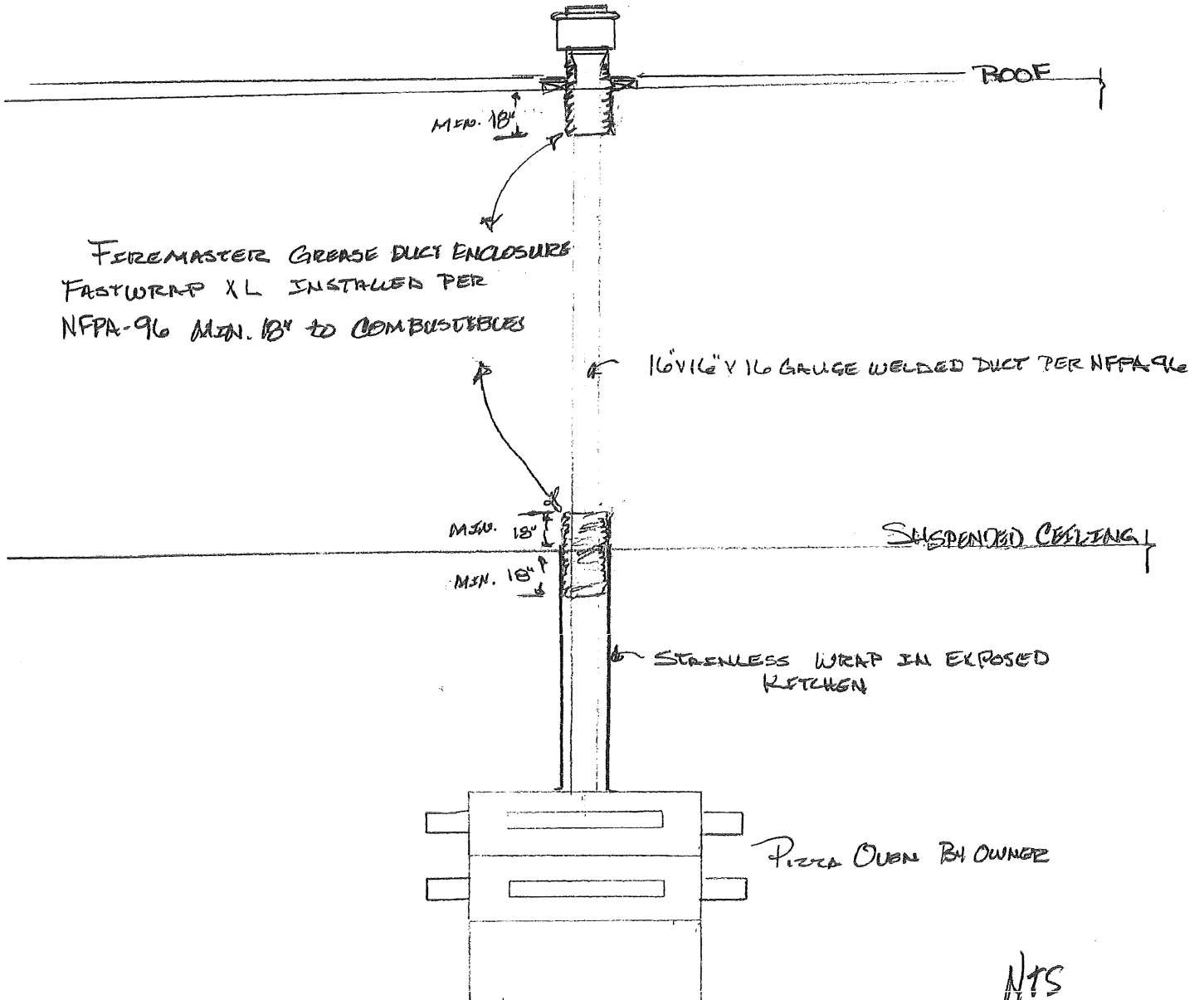
ITEM # 699116  
FLAT ROOF CURB  
LITTLE CAESARS PIZZA  
MATERIAL: 18ga GALVANIZED STEEL



OWNER: TOM ERNST

LITTLE CAESARS  
851 CENTRAL AVE.  
DOUR N.H.

EXHAUST FAN BY OWNER  
MODEL XRUB-161-10



NTS



# Thermal Ceramics

Fire wrap

FastWrap® XL  
Commercial Kitchen Grease Duct Enclosure System  
Air Ventilation Duct Enclosure System

**FIREMASTER**

Fire Protection Products

## Product Data & Installation Guide

### 1. Product Description

Thermal Ceramics' new FireMaster® FastWrap XL is the thinnest and lightest flexible wrap material available that passes the ASTM E 2336 test standard required by the 2006 IMC and NFPA 96 for reduced clearance enclosure materials used to provide 1 or 2 hour fire rating for kitchen exhaust ducts. FastWrap XL is also UL Classified and Labeled per ISO 6944 as an alternative to a 1 or 2 hour rated enclosure for air ventilation ducts. The FastWrap XL core blanket is manufactured using Thermal Ceramics patented Superwool® fiber, a 2000°F rated, non-combustible, alkaline-earth silicate wool with low biopersistence. FastWrap XL is the product of extensive research and development resulting in break-through improvements in fiberization technology with significant enhancements in thermal properties beneficial to fire protection applications. FastWrap XL when used in combination with an approved firestop sealant provides an effective through penetration firestop in rated floor and wall assemblies. FastWrap XL is UL Classified and is part of UL's Listing and Follow-Up Service Program to ensure the consistent quality essential to the critical nature of this life-safety application.

### Product Features

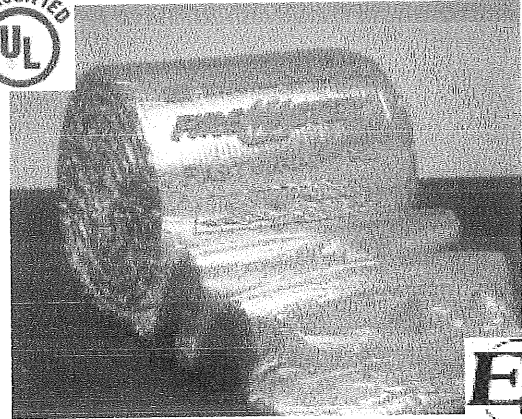
- Zero clearance to combustibles at any location
- Thin and Lightweight at 1-1/2 inch thick, 6 pcf density
- Contours easily to complex duct designs
- Butt Joints on inside layer - save labor, space, and material
- Fully foil encapsulated for fast and clean installation
- Completely inorganic and non-combustible
- Contains 2000°F rated fibers for added safety margin
- Contains no low temperature mineral or glass fibers
- Wide variety of through penetration systems
- Resistant to mold growth
- Extensive Listings and detailed installation instructions
- Offered in 50 and 100 square foot rolls
- Available in 48 inch widths for less joints and installation labor

### 2. Applications

- Applied in 2 layers to provide 1 or 2 hour fire protection to grease ducts exhausting Type 1 hoods per 2006 IMC, NFPA 96 and 2006 IAPMO UMC
- Applied in 1 layer as an alternative to a 1 or 2 hour rated enclosure for air ventilation ducts

### 3. Physical Characteristics

| Product            | Unit                                         | Size               | Units/Ctn. | Wt./Ctn.  |
|--------------------|----------------------------------------------|--------------------|------------|-----------|
| FastWrap XL        | Roll                                         | 1-1/2" x 24" x 25' | 1          | 37.5 lbs. |
| FastWrap XL        | Roll                                         | 1-1/2" x 48" x 25' | 1          | 75 lbs.   |
| FastWrap XL Collar | Roll                                         | 1-1/2" x 6" x 25'  | 4          | 37.5 lbs. |
| Color              | White blanket with silver foil encapsulation |                    |            |           |



### 4. Performance Specifications

| Reference Standard                         | Standard No.   | Performance  |
|--------------------------------------------|----------------|--------------|
| <b>Grease Duct Enclosure System</b>        | ASTM E2336     | Pass         |
| Section 16.1 - Non-Combustibility          | ASTM E136      | Pass         |
| Section 16.2 - Fire Resistance (wall)      | ASTM E119      | Pass         |
| Section 16.3 - Durability Test             | ASTM C518      | Pass         |
| Section 16.4 - Internal Fire Test          | ASTM E2336     | Pass         |
| Section 16.5 - Fire Engulfment (duct)      | ASTM E814/E119 | Pass         |
| <b>Surface Burning Characteristics</b>     |                |              |
| Flame Spread (foil/blanket)                | ASTM E84       | 5/0          |
| Smoke Developed (foil/blanket)             | ASTM E84       | 5/0          |
| <b>Thermal Resistance (R-value @ 70°F)</b> | ASTM C518      | 4.2 per inch |
| <b>Mold Growth (75% -95% humidity)</b>     | ASTM D6329     | Resistant    |
| <b>Air Ventilation Duct Enclosure</b>      | ISO 6944       | Pass         |
| <b>Grease Duct Enclosure System</b>        | UL 1978*       | Pass         |

\* Laboratory Listings will be withdrawn January 1, 2009 forcing systems to be tested to ASTM E2336.

### 5. Listings/Building Code Reports

| Listed Uses                                                        | Agency  | Listing      |
|--------------------------------------------------------------------|---------|--------------|
| Grease Duct Enclosure System (Zero Clearance) - AC101 (ASTM E2336) | UL      | G18          |
| Grease Duct Enclosure System (Zero Clearance) - ASTM E2336         | ICC-ES* | ESR 2213     |
| Through Penetration FireStop System - ASTM E814/UL 1479            | UL      | See Figure 2 |
| Ventilation Duct Enclosure System - ISO 6944                       | UL      | V19          |

\* International Code Council - Engineering Service

## 6. Storage

FastWrap XL must be stored in a dry warehouse environment on pallets. Pallets should not be stacked.

## 7. Installation

FastWrap XL shall be installed by a qualified contractor in accordance with manufacturer's instructions and design listings. See figures 1 to 5 for complete details.

### Materials and Equipment

- FastWrap XL blanket
- Aluminum foil tape
- Minimum 1/2" wide filament tape (optional)
- Carbon steel or stainless steel banding material, minimum 1/2" wide, minimum 0.015" thick, with steel banding clips
- Hand banding tensioner and crimping tool
- Minimum 12 gage steel insulation pins; steel speed clips, minimum 1-1/2" x 1-1/2" square or 1-1/2" dia., or equivalent sized cup-head pins;
- Capacitor discharge stud gun
- FireMaster F2-HT-XL3 Prefabricated Door or Field Fabricated Door Hardware
- An approved firestop sealant

### General

To minimize waste, FastWrap XL blanket should be rolled out tautly before measuring. Cut edges of the blanket shall be taped with aluminum foil tape to prevent exposed edges of the insulation absorbing grease and moisture in the event of a compromised grease duct joint. Overlaps are used to block heat transfer in the event of duct deformation resulting from thermal expansion.

### A. First Layer

1) **Butt Joint for ASTM E2336 compliant grease duct enclosure (Figure 1)** - The first layer of FastWrap XL is cut to completely wrap around the perimeter of the duct with enough excess to provide a tight butt joint where the blanket ends meet. The joints of adjacent blankets are firmly butted against each other. This interior layer can be held temporarily in place with filament tape until either the second layer is installed, or permanent attachment as described in Section D is accomplished. While not required, the inside layer can be installed with 3" overlaps along perimeter and adjacent blankets.

2) **Overlap for ISO 6944 compliant air ventilation duct enclosure (Figure 1)** - For single layer enclosure systems, the first layer of FastWrap XL is cut to completely wrap around the perimeter of the duct with enough excess to overlap itself by a minimum of 3". The joints of adjacent blankets must overlap each other by a minimum 3". Filament tape is suggested to temporarily hold the blanket in place until steel banding or pinning is installed to permanently secure the blanket.

### B. Second Layer – 3" Overlap, or 6" Collar (Figure 1)

The second layer of FastWrap XL is cut to completely wrap around the perimeter of the first layer, with enough excess to overlap itself not less than 3". Joints in the second layer should be staggered a minimum of 12 inches from joints on the inner layer. Adjacent blankets on the second layer must

overlap each other by not less than 3". As an alternative to overlaps on adjacent blankets installed on the second layer, adjacent blankets can be tightly butt jointed and wrapped with a 6" wide FastWrap XL collar centered over the butt joint. This outside layer can be held temporarily in place with filament tape spaced 1-1/2" from each blanket edge, and spaced on nominal 10-1/2" centers along the center of the blanket. Mechanical attachment as described in Section D must be used to make the installation permanent.

### C. 2 & 3 Sided Wrap Installation (Figure 5)

When space does not allow for a complete wrap applied to the duct on all four sides, the FastWrap XL is approved for 2 or 3 sided installations with mechanical attachment to a concrete or CMU assembly. The FastWrap XL is installed on the 2 or 3 sides of the duct as described in one of the installation methods described in sections A or B with the starting edge of the blanket attached to the concrete or CMU assembly and then wrapped around the duct until the other end can be attached to the other concrete or CMU assembly, thus encapsulating the duct with insulation around all accessible sides. The blanket is to flange out onto the concrete or CMU assembly. It shall be secured to the adjoining assembly with min 3/16" diameter, 4" long concrete anchors, footed to a minimum 1-1/2" wide x 3/16" thick steel strip/strap with pre-drilled holes spaced a maximum 10" on center. The steel strip is to be placed around the entire perimeter of the duct in the exposure area. The FastWrap XL insulation wrap is secured to the duct with minimum 1/2" wide steel banding 10-1/2" centers. The ends of the banding are to loop into the steel strips/straps that foot the blanket to the concrete floor or wall, and tightened down.

### D. Mechanical Attachment Methods for Insulation Wrap

1) **Banding (Figure 1)** - Minimum 1/2" wide carbon steel or stainless steel banding, 0.015" thick, is placed around the entire perimeter of the insulated duct with maximum 10-1/2" spacing centers and 1-1/2" from each blanket edge or 1-1/2" from each collar edge when using the butt joint and collar method. When banding, filament tape can be used to temporarily hold the blanket in place until the banding is applied. The banding is placed around the blanket and tightened so as to firmly hold the FastWrap XL in place against the duct, but not cause any cutting or damage to the blanket.

2) **Pinning (Figure 4)** - For duct spans larger than 24", min. 12 gage, 3 or 5" long steel insulation pins are welded to the duct in columns spaced 12" apart, 6" - 12" from each edge and on 10-1/2" centers along bottom horizontal and outside vertical runs to prevent blanket sag. Pins are also required 1" from the end of a duct and 1" from any edge near a 90° bend, spaced on 6" centers. Pins are locked into place with 1-1/2" diameter round or square, galvanized steel, speed clips or cup head pins. Pins that extend beyond the outer blanket wrap layer shall be turned down to eliminate sharp edges or the excess length cut off. Cup head pins should only be used in conjunction with banding.

### E. Grease Duct Access Door Installation (Figure 3)

Four galvanized steel threaded rods, 1/4" diameter by 4-1/2" to 5" long are welded to the duct at the corners of the door opening. Four 4" long steel tubes fit over the threaded rods to hold the door to the duct and protect the wrap from damage as the door is removed. Four 5" long 12 gage insulation pins are welded to the door panel for installation of the blanket. Three layers of FastWrap XL are impaled over the 12 gage insulation pins on the 16 gauge door panel and held in place with speed clips. Each layer must have minimum 1" overlap over the previous layer. When the door is installed, this first and second layer must fit tightly against the wrap surrounding the door opening to form tight butt joints. Pins that extend beyond the outer layer of FastWrap XL shall be turned down to avoid sharp points on the door. The steel tubes are placed over the threaded rods. The insulated door panel is placed over the threaded rods covered by the steel tubes and held in place with washers and wing nuts. FireMaster F2-HT-XL3 Access Doors are tested and approved per ESR 2213 as alternatives to field fabricated doors. Installations instructions for the FireMaster F2-HT-XL3 door are included with the complete assembly.

#### F. Through-Penetration Fire Stop System (Figure 2)

When the duct penetrates a fire rated wall, ceiling, or floor, an approved fire stop system must be employed. Prior to installing this firestop system the surfaces of all openings and penetrating items needs to be clean and dry. Cut the aluminum scrim facing off FastWrap XL blanket to expose the core blanket. FastWrap XL scrap blanket must be packed into the annular space at minimum 50% compression. The packing material must be recessed a minimum 1/4" from the surface of the concrete or gypsum wall. Install a minimum of 1/4" of approved firestop sealant into the recessed opening. When there is no room in the remaining annular space to wrap the duct with FastWrap XL material, the enclosure may terminate above and below the floor/ceiling or wall assembly as shown in figure 2 by mechanically attaching the FastWrap XL to the termination point above and below the termination area with bands or pins.

#### G. Support Hanger Systems

Support hanger systems do not need to be wrapped provided that the hanger rods are at least a minimum of 3/8" diameter and spaced a maximum of 60" on center along the length of the duct, and the angle iron is a minimum of 2" x 2" x 1/8" or SMACNA equivalent support system (excludes band strap support systems). Horizontal trapeze support system may be incorporated into the wrap enclosure.

#### 8. Maintenance and Repair

No maintenance is required when installed in accordance with Thermal Ceramics installation instructions.

If damage is limited to the foil facing, aluminum foil tape can be used to repair the foil facing.

If an area of blanket is found to be damaged the following procedure must be incorporated.

- If the damaged area is larger than 8" x 8" the entire wrap section must be removed and replaced according to Thermal Ceramics installation instructions.

- If the damaged area is small (less than 8" x 8"), the damaged area must be cut away and replaced with a new section 1" larger in length and width than the cut out are, such that the new section can be compressed tightly into the cut out area. All cut edges of the new section must be taped and sealed with aluminum foil tape. The new section must be held in place with either pinning or banding per Thermal Ceramics installation instructions.

#### 9. Limitations

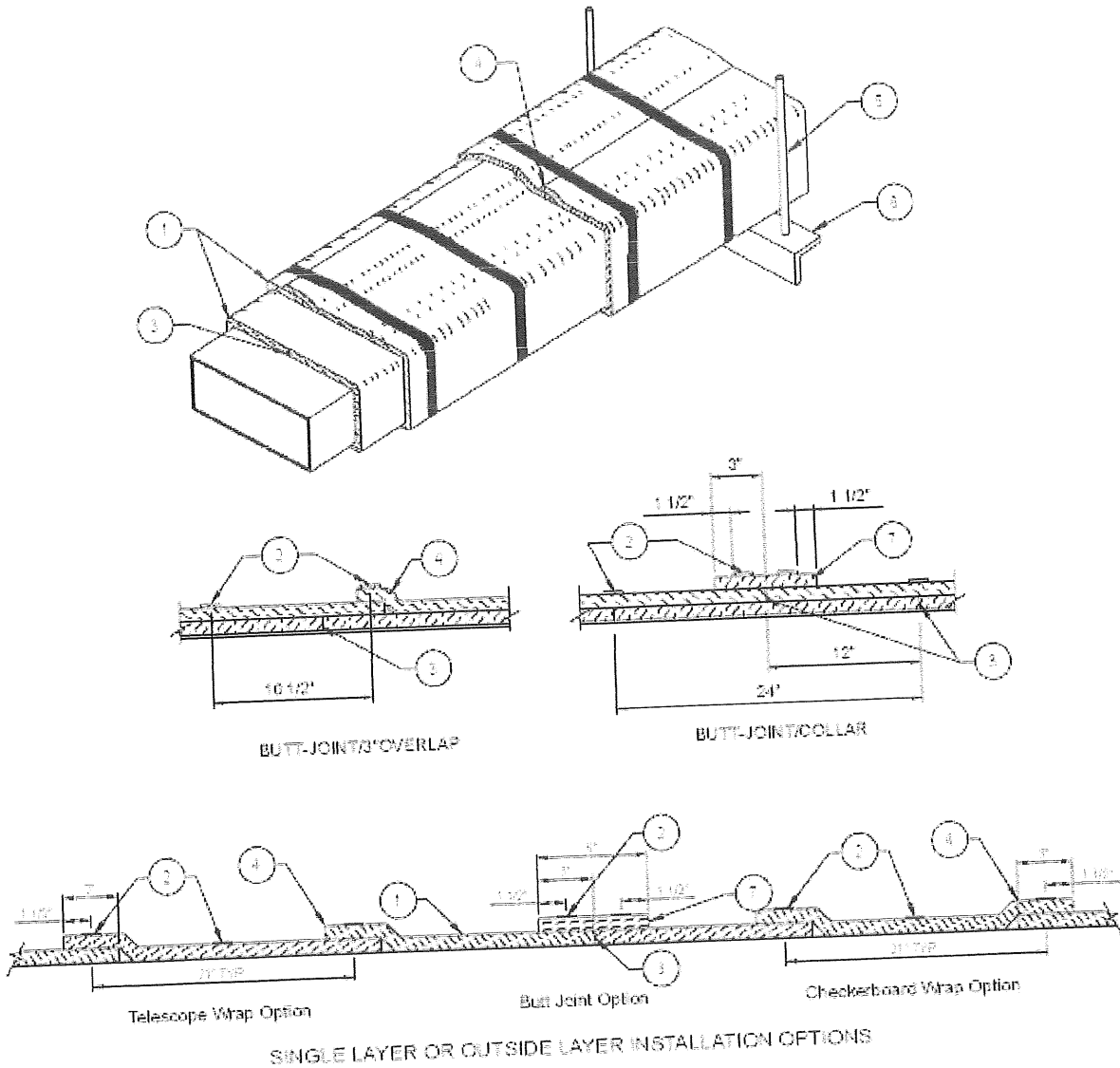
Thermal Ceramics FastWrap XL shall be installed in accordance with these installation instructions. The integrity of FastWrap XL systems is limited to the quality of the installation.

\*For personal protective equipment recommendations see the MSDS.

Thermal Ceramics is a trademark of Morgan Crucible Company plc. FireMaster and FastWrap are trademarks of Thermal Ceramics Inc. FastWrap products are manufactured by Thermal Ceramics Inc. and are distributed by authorized distributors.

Tremco and Fyre-Sil are trademarks of Tremco Inc.

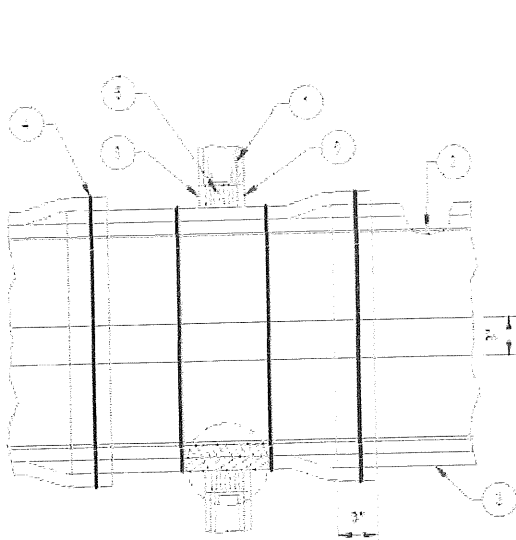
**FireMaster FastWrap XL**  
**Commercial Kitchen Grease Duct Enclosure System**  
**Air Ventilation Duct Enclosure System**  
**1 or 2 Hour Shaft Alternative/Zero Clearance to Combustibles**



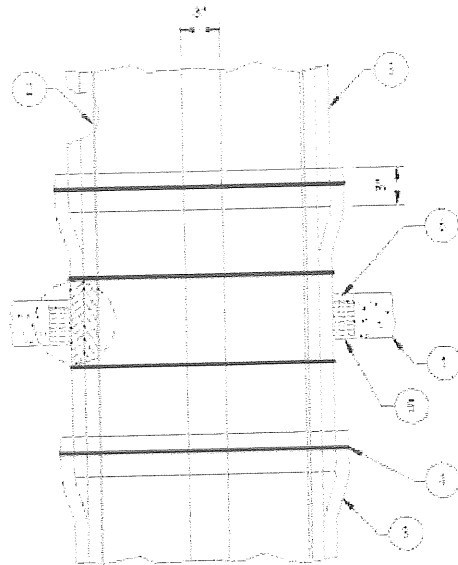
**Figure 1**

|    |                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Two layers FastWrap XL for grease duct enclosure system<br>One layer FastWrap XL for air ventilation duct enclosure system                                           |
| 2. | Steel banding minimum 1/2" wide by 0.015" thick                                                                                                                      |
| 3. | Tight Butt Joints on inner layer                                                                                                                                     |
| 4. | Minimum 3" overlap on perimeter and between adjacent blankets on outside layer                                                                                       |
| 5. | Minimum 3/8" diameter hanger rod                                                                                                                                     |
| 6. | Minimum 2" x 2" x 1/8" angle for grease duct enclosure system<br>Minimum 1-1/2" x 1-1/2" x 1/8" angle or SMACNA equivalent for air ventilation duct enclosure system |
| 7. | Optional 6" FastWrap XL collar                                                                                                                                       |

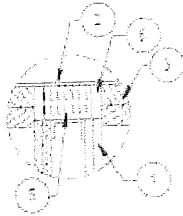
**FireMaster FastWrap XL  
Commercial Kitchen Grease Duct Enclosure System  
Air Ventilation Duct Enclosure System  
Through Penetration System**



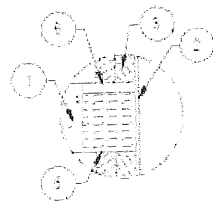
FastWrap XL continuous through rated wall assembly



FastWrap XL continuous through rated floor/ceiling assembly



FastWrap XL terminated on both sides of the rated wall assembly



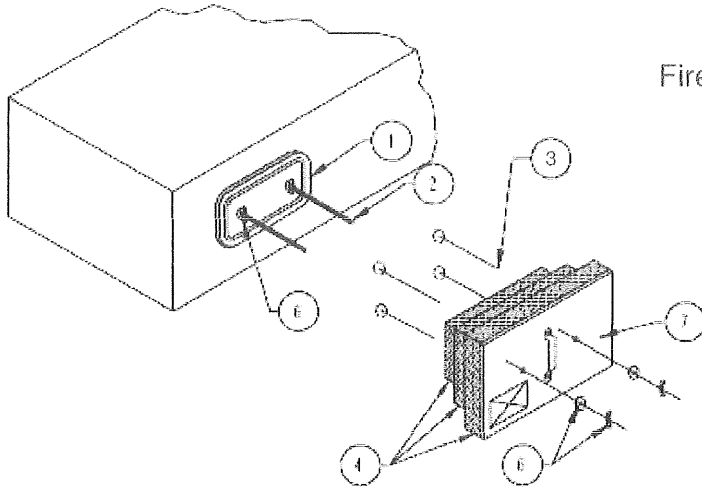
FastWrap XL terminated at the top and bottom surface of the floor/ceiling assembly

| Figure 2 |                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------|
| 1.       | Rated floor/ceiling or wall assembly                                                                                       |
| 2.       | Duct                                                                                                                       |
| 3.       | Two layers FastWrap XL for grease duct enclosure system<br>One layer FastWrap XL for air ventilation duct enclosure system |
| 4.       | Steel banding minimum 1/2" wide by 0.015" thick or pinning                                                                 |
| 5.       | FastWrap XL (packing material)                                                                                             |
| 6.       | Approved through penetration firestop sealant                                                                              |

| UL Listings per<br>E 814/UL 1479<br>Through Penetration |           |
|---------------------------------------------------------|-----------|
| C-AJ-1562                                               | C-AJ-7004 |
| C-AJ-7012                                               | C-AJ-7014 |
| C-AJ-7019                                               | C-AJ-7021 |
| C-AJ-7047                                               | C-AJ-7095 |
| C-AJ-7098                                               | C-AJ-7119 |
| F-A-1093                                                | F-A-1094  |
| F-A-3048                                                | F-C-7036  |
| F-C-7037                                                | W-L-7009  |
| W-L-7121                                                | W-L-7145  |
| W-J-7086                                                |           |

Go to [www.ul.com](http://www.ul.com) and select **Certifications** to find design details.

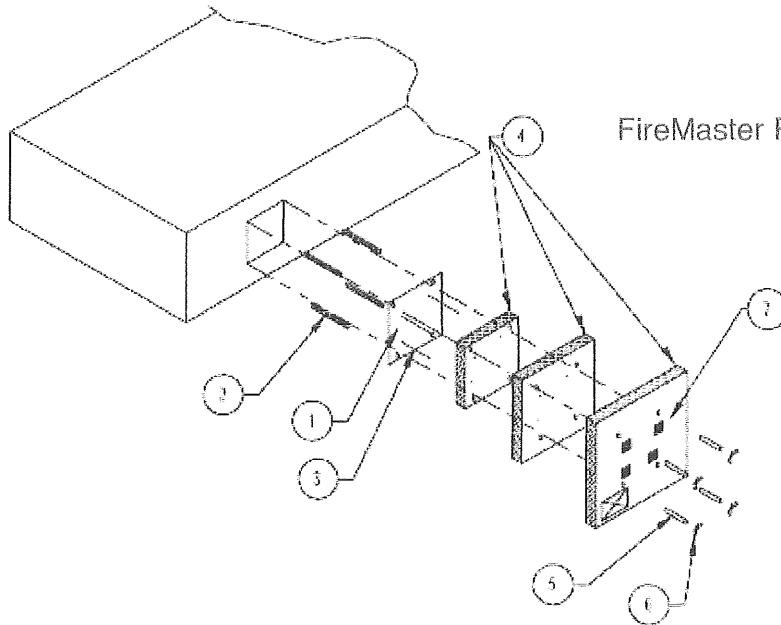
**FireMaster FastWrap XL  
Access Door Systems  
Commercial Kitchen Grease Duct**



**FireMaster F2-HT-XL3 Door System**

NOTE: Available from Thermal Ceramics  
FireMaster Distributors

Note:  
Label Required  
Access Door  
Do Not Obstruct



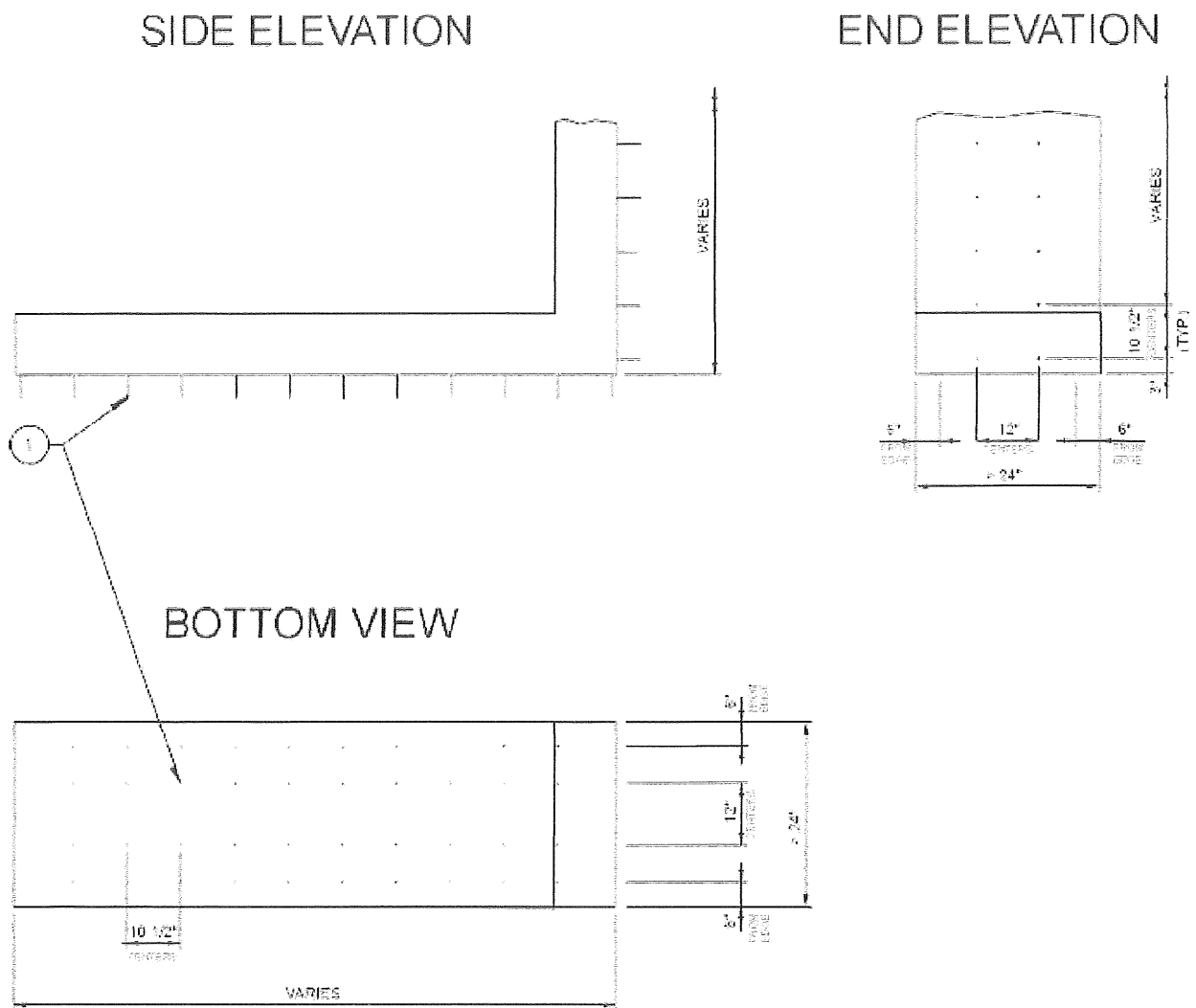
**FireMaster Field Fabricated Door System**

Note:  
Label Required  
Access Door  
Do Not Obstruct

**Figure 3**

|    |                                                                                           |
|----|-------------------------------------------------------------------------------------------|
| 1. | DuctMate® F2-HT Access Door or 16 gauge field fabricated access door cover plate          |
| 2. | All thread rods                                                                           |
| 3. | Installation pins with speed clips                                                        |
| 4. | Three layers FastWrap XL with minimum 1" overlaps and all edges sealed with aluminum tape |
| 5. | Spool pieces                                                                              |
| 6. | Wing nuts and washers                                                                     |
| 7. | Outer cover plate labeled "ACCESS DOOR - DO NOT OBSTRUCT"                                 |

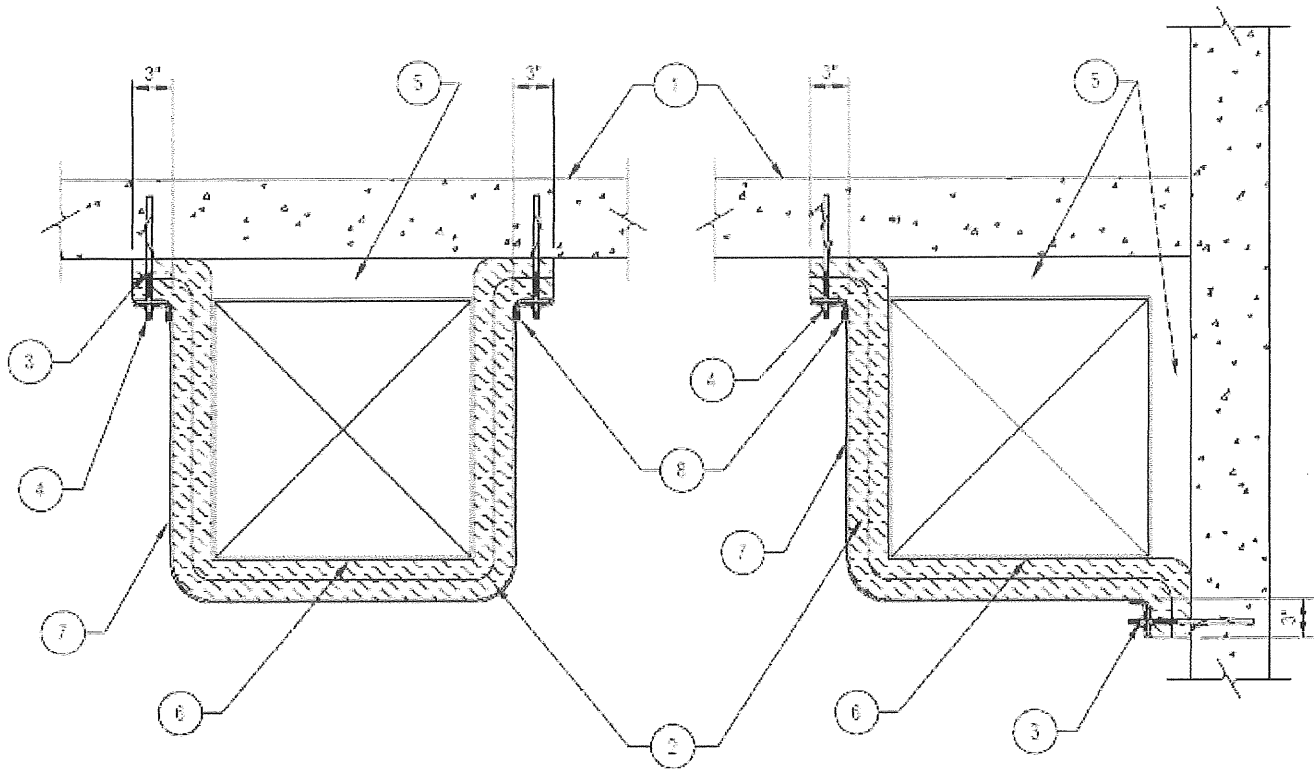
**FireMaster FastWrap XL**  
**Typical Insulation Pin Layout for**  
**Duct Spans > 24" Wide to Prevent Blanket Sag**



|                 |                                       |
|-----------------|---------------------------------------|
| <b>Figure 4</b> |                                       |
| 1.              | Minimum 12 gauge steel insulation pin |



**FireMaster FastWrap XL**  
**Commercial Kitchen Grease Duct Enclosure System**  
**Air Ventilation Duct Enclosure System**  
**1 or 2 Hour Shaft Alternative / Zero Clearance to Combustibles**  
**2 and 3 Sided Wrap Detail for Attaching to Walls and/or Ceilings**



Note: Ducts must be independently supported per code

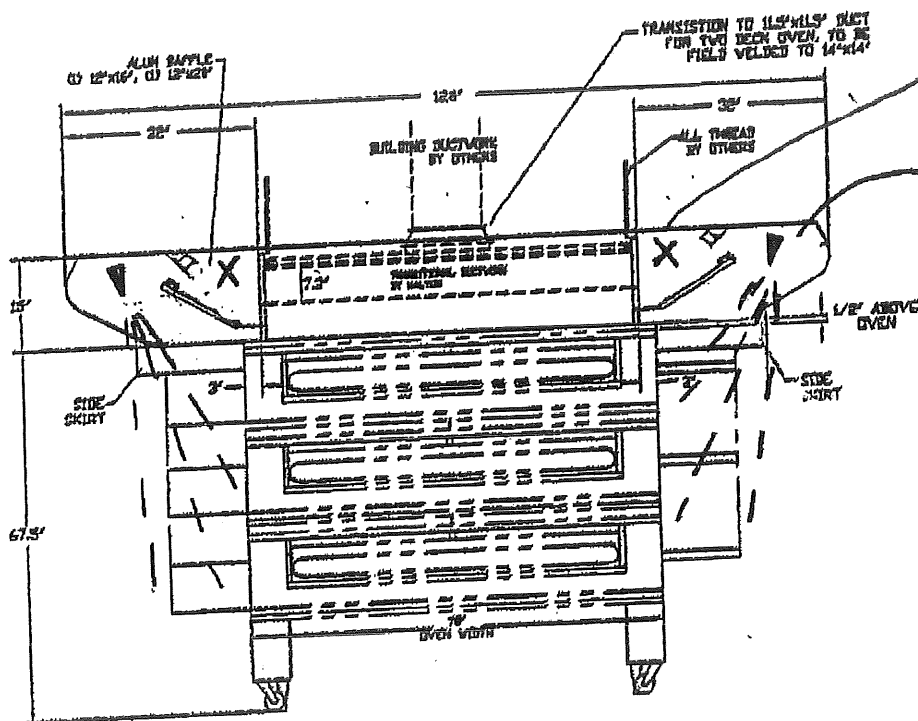
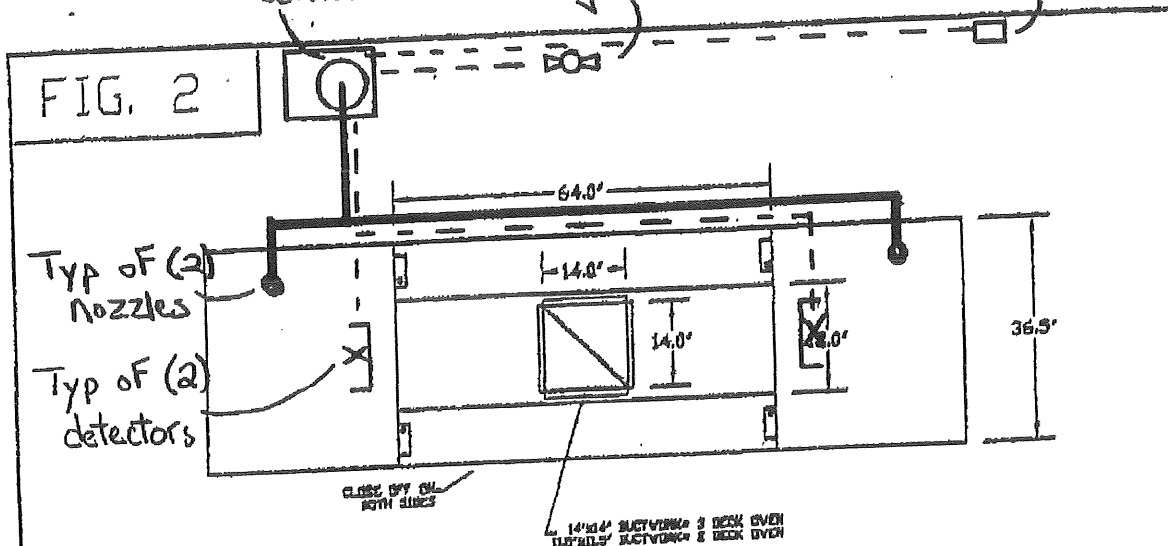
| Figure 5 |                                                                                                                            |
|----------|----------------------------------------------------------------------------------------------------------------------------|
| 1.       | 1 or 2 hour rated concrete floor, ceiling or wall                                                                          |
| 2.       | Two layers FastWrap XL for grease duct enclosure system<br>One layer FastWrap XL for air ventilation duct enclosure system |
| 3.       | Concrete fastener system                                                                                                   |
| 4.       | 3/16" thick x 2-3" wide bar stock perforated 12" o.c.                                                                      |
| 5.       | Air gap (8" max.)                                                                                                          |
| 6.       | Duct                                                                                                                       |
| 7.       | Steel banding minimum 1/2" wide by 0.015" thick                                                                            |
| 8.       | Banding clip                                                                                                               |



*ANSUL*

1.5-Gallon Ansul System  
Control box 2" gas valve

emergency pull station



Typ of (2) detectors  
Typ. of (2) nozzles

EXHAUST INFORMATION

| OVEN TYPE        | DESIGN CFM | T.A.B READING | LISTING MIN CFM | T.A.B READING | DUCT STATIC |
|------------------|------------|---------------|-----------------|---------------|-------------|
| SINGLE DECK OVEN | 567        | .06'          | 396             | .04'          | --          |
| DOUBLE DECK OVEN | 1380       | .36'          | 1021            | .26'          | .56'        |
| TRIPLE DECK OVEN | 2180       | .68'          | 1460            | .53'          | 1.2'        |



**Halton**  
CARE FOR INDOOR AIR

TOPSHAM LITTLE CAESAR'S

**PULLEY TEE**

The Pulley Tee (Part No. 427929) is used to change the direction of two wire ropes by 90°. It must be used in areas where the temperatures are within the range of 32 °F to 130 °F (0 °C to 54 °C). Pulley tees can be used in mechanical gas valve actuation lines and remote manual pull station lines. Pulley tees cannot be used within a detection line.

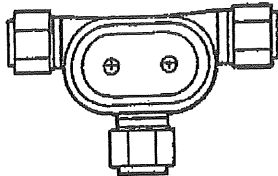


FIGURE 24  
000447

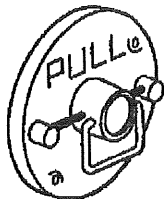
**STAINLESS STEEL CABLE**

The 1/16 in. stainless steel cable is run from the terminal detector, through conduit, all series detectors and pulley elbows, and into the regulated release mechanism trip lever. When any fusible link separates, the tension on the cable is relaxed, and the trip lever actuates the regulated release mechanism. The cable can also be used for mechanical gas valves and remote manual pull stations. The cable is available in 50 ft. (15 m) (Part No. 15821) and 500 ft. (152.4 m) (Part No. 79653) lengths.

**REMOTE MANUAL PULL STATION**

The remote manual pull station (Part No. 4835 or Part No. 54011) is required for manual actuation of the regulated release assembly. The remote manual pull station should be mounted at a point of egress and positioned at a height determined by the authority having jurisdiction. Trim rings, Part No. 427074 (pack of 10), are available.

PART NO. 4835 (WITHOUT CABLE)  
 PART NO. 54011 (WITH 50 FT. OF CABLE)



METAL STAMPED  
000163

FIGURE 25

**MECHANICAL GAS VALVES**

The mechanical gas valves are designed to shut off the flow of gas to the appliances upon actuation of the regulated release assembly. The valves are available in sizes of 3/4 in., 1 in., 1 1/4 in., 1 1/2 in., and 2 in. ANSUL style; and 2 1/2 in. and 3 in. Asco style. The valves are rated for natural and LP gas. Both styles are UL Listed and includes the air cylinder, tubing, and fittings for connection to the release mechanism.

| Part No. | Description                 | Maximum Operating Pressure |
|----------|-----------------------------|----------------------------|
| 55598    | 3/4 in. Gas Valve (ANSUL)   | 10 psi (.69 bar)           |
| 55601    | 1 in. Gas Valve (ANSUL)     | 10 psi (.69 bar)           |
| 55604    | 1 1/4 in. Gas Valve (ANSUL) | 10 psi (.69 bar)           |
| 55607    | 1 1/2 in. Gas Valve (ANSUL) | 10 psi (.69 bar)           |
| * 55610  | 2 in. Gas Valve (ANSUL)     | 10 psi (.69 bar) *         |
| 25937    | 2 1/2 in. Gas Valve (ASCO)  | 5 psi (.35 bar)            |
| 25938    | 3 in. Gas Valve (ASCO)      | 5 psi (.35 bar)            |

| Valve Size | A       |         | B     |         | C       |           |
|------------|---------|---------|-------|---------|---------|-----------|
|            | in.     | (mm)    | in.   | (mm)    | in.     | (mm)      |
| 3/4 in.    | 3 3/4   | (95.3)  | 6 3/8 | (161.9) | 5 1/2   | (139.7)   |
| 1 in.      | 3 3/4   | (95.3)  | 6 3/8 | (161.9) | 5 1/2   | (139.7)   |
| 1 1/4 in.  | 4 7/8   | (123.8) | 7 3/8 | (187.3) | 6 3/8   | (161.9)   |
| 1 1/2 in.  | 4 7/8   | (123.8) | 7 3/8 | (187.3) | 6 3/8   | (161.9)   |
| * 2 in.    | 5 7/8   | (149.2) | 7 7/8 | (200.0) | 6 11/16 | (169.9) * |
| 2 1/2 in.  | 7 13/16 | (198.4) | ----  | ----    | 9 1/16  | (230.2)   |
| 3 in.      | 7 25/32 | (197.6) | ----  | ----    | 9 1/16  | (230.2)   |

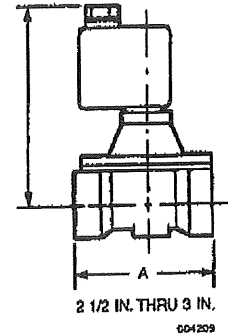
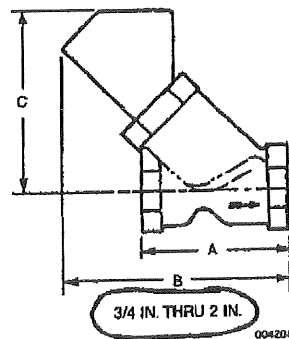


FIGURE 26

**SECTION IV – SYSTEM DESIGN**  
 UL EX. 3470 ULC CEx747 Page 4-55  
 4-1-06 REV. 3

**MANUAL PULL STATION REQUIREMENTS**

A remote manual pull station allows the R-102 system to be manually operated at some point distant from the regulated release assembly. The pull station should be installed at a height of 42-48 in. (107-122 cm), in accordance with the requirements of the American Disabilities Act (ADA) and the Authority having Jurisdiction, and located in the path of egress. The pull station is the only source of manual actuation of the regulated release assembly.

The total length of the cable used for each manual pull station within a system must not exceed 150 ft. (46 m).

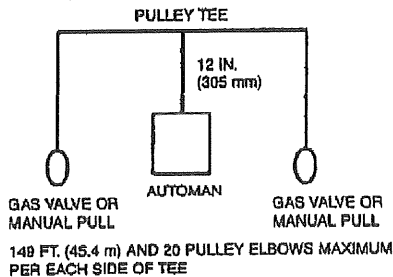
The maximum number of pulley elbows that may be used per pull station is 20.

One pulley tee, Part No. 427929, is allowed per system.

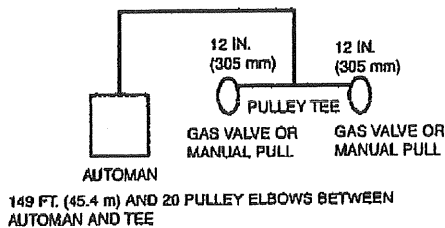
The maximum length of cable from the AUTOMAN to a pull station is 150 ft. (45.7 m) with a maximum of 20 pulley elbows used per side of the tee. As the tee is located farther from the AUTOMAN, the 150 ft. (45.7 m) maximum must be observed but as pulley elbows are placed between the AUTOMAN and the tee, they must be deducted from the available pulley elbows (20) allowed on each side.

**Example:** If 10 pulley elbows are placed between the AUTOMAN and the pulley tee, the maximum available pulley elbows left for use on each side of the tee is 10 per side. See Figure 103 for three different examples. (Note: Both must be gas valves or both must be pull stations. Mixing is not allowed.)

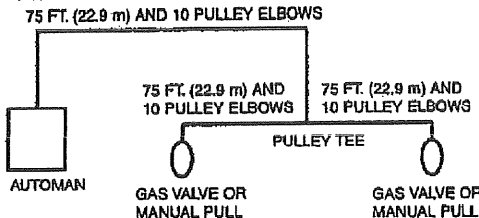
TEE CLOSE TO AUTOMAN (EXAMPLE)



TEE CLOSE TO GAS VALVES OR MANUAL PULL (EXAMPLE)



TEE HALFWAY BETWEEN AUTOMAN AND GAS VALVES OR MANUAL PULL (EXAMPLE)



**FIGURE 103**  
004907

**Metal Stamped Style – Part No. 4835 or 54011**

Parts that may be used for installation of a metal stamped remote manual pull station are:

| Description                          | Part No. |
|--------------------------------------|----------|
| Remote Manual Pull Station Assembly* | 54011    |
| Remote Manual Pull Station Assembly  | 4835     |
| Pulley Elbow                         | 423250   |
| Pulley Tee                           | 415670   |
| Pulley Tee                           | 427929   |

\*Assembly includes parts listed below:

|                                              |       |
|----------------------------------------------|-------|
| 1/16 in. Stainless Steel Cable 50 ft. (15 m) | 15821 |
| Oval Press-To-Crimp Sleeves                  | 4596  |
| Glass Break Rod (1)                          | 4834  |

**MECHANICAL GAS VALVE REQUIREMENTS**

An ANSUL or ANSUL approved mechanical gas shut-off valve system can be attached to the R-102 system. The system works both mechanically and pneumatically by use of an air cylinder located inside the regulated release assembly. Upon actuation of the fire suppression system, a pneumatically-operated air cylinder assembly will mechanically close the gas shut-off valve.

The total length of the cable for each mechanical gas valve must not exceed 150 ft. (46 m). The maximum number of pulley elbows that may be used is 20 for each valve.

One pulley tee (Part No. 427929) is allowed per system.

The maximum length of cable from the AUTOMAN to a gas valve is 150 ft. (45.7 m) with a maximum of 20 pulley elbows used per side of the tee. As the tee is located farther from the AUTOMAN, the 150 ft. (45.7 m) maximum must be observed but as pulley elbows are placed between the AUTOMAN and the tee, they must be deducted from the available pulley elbows (20) allowed on each side.

**Example:** If 10 pulley elbows are placed between the AUTOMAN and the pulley tee, the maximum available pulley elbows left for use on each side of the tee is 10 per side. See Figure 103 for three different examples.

Parts that may be used for installation of a Mechanical Gas Shut-off Valve are:

| Description                                    | Part No. |
|------------------------------------------------|----------|
| Gas Valve/Actuator 3/4 in. Assembly (ANSUL)*   | 55598    |
| Gas Valve/Actuator 1 in. Assembly (ANSUL)*     | 55601    |
| Gas Valve/Actuator 1 1/4 in. Assembly (ANSUL)* | 55604    |
| Gas Valve/Actuator 1 1/2 in. Assembly (ANSUL)* | 55607    |
| Gas Valve/Actuator 2 in. Assembly (ANSUL)*     | 55610    |
| Gas Valve/Actuator 2 1/2 in. Assembly (ASCO)*  | 25937    |
| Gas Valve/Actuator 3 in. Assembly (ASCO)*      | 25938    |
| Pulley Elbow                                   | 423250   |
| Pulley Elbow                                   | 415670   |
| Pulley Tee                                     | 427929   |
| 1/16 in. Stainless Steel Cable                 | 15821 or |
| 50 ft. (15 m) or 500 ft. (152 m) roll          | 79653    |
| Oval Press-To-Crimp Sleeve                     | 4596     |
| Stop Sleeve (2)                                | 26317    |

\*Assembly includes parts listed below:

|                            |       |
|----------------------------|-------|
| Air Cylinder Assembly      | 15733 |
| Air Cylinder               | 15521 |
| Tubing Assembly            | 15529 |
| Copper Tubing, 1/8 in.     | 15525 |
| Male Elbow                 | 15523 |
| Male Connector             | 15522 |
| Machine Screw (2)          | 15421 |
| Hex Nut (2)                | 15527 |
| Lockwasher (2)             | 4141  |
| Visual Inspection Seal (2) | 197   |

**SECTION IV – SYSTEM DESIGN**

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**MECHANICAL GAS VALVE REQUIREMENTS (Continued)**

All valves above are UL listed and approved. They may be mounted in any position. Pipe threads are type NPT. Ambient operating temperature range of all valves is 32 °F to 120 °F (0 °C to 49 °C). The valves are not weatherproof and must be located indoors in areas approved by the "authority having jurisdiction."

**ELECTRICAL GAS VALVE REQUIREMENTS**

A UL Listed electrically-operated gas shut-off valve can be attached to the R-102 system to provide an electrical means of shutting off the gas line at a predetermined point. If an electric gas shut-off valve is used in the system it must be attached with both an electric (snap-action) switch and a manual reset relay. For more information on the types of electric (snap-action) switches, refer to the Electrical Switch, Field Installation section. The manual reset relay is reviewed in this section.

All electrical connections should be performed by a **QUALIFIED ELECTRICIAN** and in accordance with authority having jurisdiction.

The following is a brief explanation of how the R-102 system operates with an Electric Gas Shut-off Valve attached:

With the regulated release cocked in the ready condition, the normally closed contacts in the snap-action switch allow current to flow to the manual reset relay. With the relay coil energized, normally open contacts in the reset relay close, allowing the solenoid in the gas valve to be energized.

Once the R-102 system is activated, the normally closed contacts in the snap-action switch will open, de-energizing the reset relay. This will, in turn, open the contacts in the relay which will cause the gas valve to become de-energized and close.

The system must be re-armed and the "push to reset" button on the reset relay must be operated to reopen the gas valve.

It is important to note that a power failure or an electrical power interruption will cause the gas valve to close even though the system was not fired.

In either case, whether in a fired condition or when a power failure has occurred, the manual reset relay and electric gas shut-off valve must be reset to resume a normal operating condition. For resetting, refer to the "Recharge and Resetting Procedures" section in this manual.

**Approvals**

ANSUL gas valves listed in this section are UL listed and approved for 110 VAC. If more information is required, refer to the Gas and Oil Equipment List of Underwriters Laboratories, Inc. under "Electrically Operated Valves Guide No. 440 A5" or consult Ansul Incorporated, Marinette, Wisconsin 54143-2542.

If other gas valves are used, they shall be "UL listed electrically-operated safety valves for natural or LP gas as required, of appropriate pressure and temperature rating, 110 VAC/60 Hz." The information on temperature and type of gas that the valves are suitable for may be found in the Gas and Oil Equipment List of Underwriters Laboratories, Inc. under "Electrically Operated Valves Guide No. 440 A5."

The electrically operated gas valve must be of the type that needs to be energized to remain open.

Parts that may be used for installation of a 110 VAC Gas Shut-off Valve are:

| Description                             | Part No. |
|-----------------------------------------|----------|
| Electric Solenoid Valve, 3/4 in. NPT*   | 13707    |
| Electric Solenoid Valve, 1 in. NPT*     | 13708    |
| Electric Solenoid Valve, 1 1/2 in. NPT* | 13709    |
| Electric Solenoid Valve, 2 in. NPT*     | 13710    |
| Electric Solenoid Valve, 3 in. NPT*     | 17643    |
| Manual Reset Relay (110 VAC)            | 14702    |

\*Valves are normally closed when de-energized.

**ALARM INITIATING SWITCH REQUIREMENTS**

The Alarm Initiating Switch can be field mounted within the ANSUL AUTOMAN release. The switch must be used to close a supervised alarm circuit to the building main fire alarm panel when the ANSUL AUTOMAN release actuates. This action will signal the fire alarm panel that there was a system actuation in the kitchen area. The switch kit contains all necessary mounting components along with a mounting instruction sheet. See Page 5-25 for wiring information.

The switch is rated 50 mA, 28VDC.

| Part No. | Description                 |
|----------|-----------------------------|
| 428311   | Alarm Initiating Switch Kit |

**ELECTRICAL SWITCH REQUIREMENTS**

The electric (snap-action) switches for the R-102 system are specially designed to fit the regulated release assembly. The switches are intended for use with electric gas valves, alarms, contactors, lights, contractor supplied electric power shut-off devices, and other electrical devices that are designed to shut off or turn on when the fire suppression system is actuated. (See Figures 104 through 106 for reference.)

Contractors shall supply "UL listed, enclosed industrial control equipment or magnetic switch having a rating matching that of the cooking appliance, coil 110 VAC/60 Hz or 24 VAC/60 Hz."

All electrical connections should be performed by a **QUALIFIED ELECTRICIAN** and in accordance with authority having jurisdiction.

Electric (Snap-Action) Switches that may be field installed are:

| Part No. | Description      |
|----------|------------------|
| 423878   | One Switch Kit   |
| 423879   | Two Switch Kit   |
| 423880   | Three Switch Kit |
| 423881   | Four Switch Kit  |

Each switch has a set of single-pole, double throw contacts rated at 21 amp, 1 HP, 125, 250, 277 VAC or 2 HP, 250, 277 VAC.

**Note:** A relay must be supplied by others if the equipment load exceeds the rated capacity of the switch.

Electrical wiring and equipment shall be installed in accordance with NFPA 70 (National Electrical Code) or the requirements of the authority having jurisdiction.

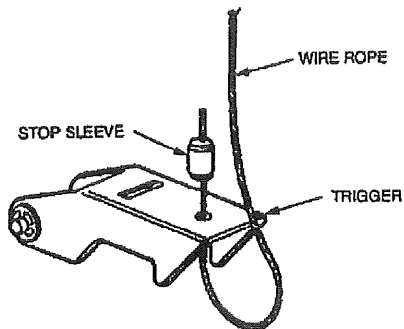
If a fire alarm system is provided, the fire extinguishing system shall be connected to the alarm system in accordance with the requirements of NFPA 72, National Fire Alarm Code, so that the actuation of the extinguishing system will sound the fire alarm as well as provide the extinguishing function of the system.

If supervision of the electrical detection, electrical actuation or electrical power supply circuit is provided, it shall give prompt audible or visual indication of trouble and shall be distinctive from alarms or indicators indicating operation or hazardous conditions as specified in NFPA 17A.

**SECTION V – INSTALLATION INSTRUCTIONS**  
 UL EX. 3470 ULC CEx747 Page 5-22  
 REV. 3 3-1-04

**INSTALLING MECHANICAL GAS VALVE (Continued)**

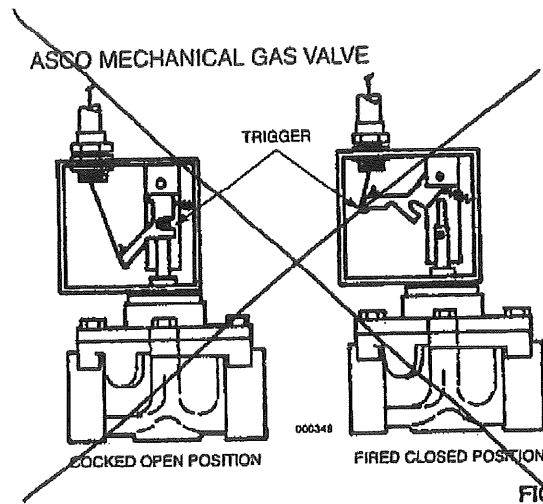
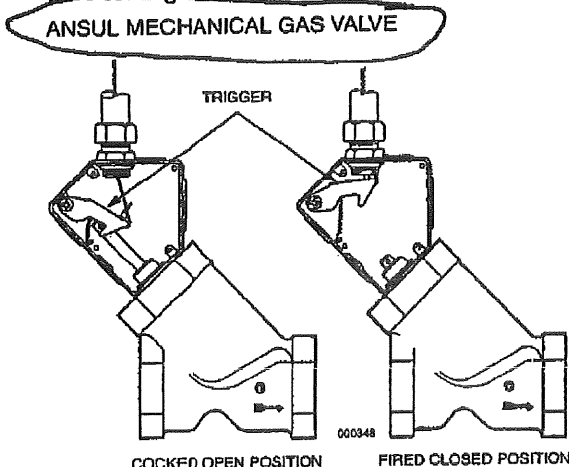
8. Install 1/2 in. conduit, and pulley elbow(s) from the mechanical gas valve to regulated release assembly enclosure as necessary.
9. Beginning at the regulated release assembly, thread the end of the wire rope through hole provided in air cylinder rod. See Figure 58.
10. Feed end of wire rope through conduit and each pulley elbow. Make certain that wire rope rides on top and in center of pulley sheave. If the 50 ft. (15 m) wire rope has been spliced to accommodate a longer run, do not allow the spliced ends to be within 12 in. (30 cm) of any pulley elbow or conduit adaptor.
11. Remove side cover on gas valve and thread end of wire rope through hole in cocking lever. Slide stop sleeve (Part No. 26317) on to wire rope and crimp. (Use the National Telephone Supply Company Nicopress Sleeve Tool Stock No. 51-C-887 or equal to properly crimp stop sleeve.) Make certain crimp is on top of trigger, with wire rope curled under lever. See Figure 62.



**FIGURE 62**  
000347

12. With the end of wire rope already threaded through hole in air cylinder rod, slide stop sleeve (Part No. 26317) onto wire rope and leave loose. Do not crimp stop sleeve at this time. See Figure 58.

- ▶ 13. Cock mechanical gas valve as shown in Figure 63. Note: A valve cocking tool is available. Order Part No. 416018.



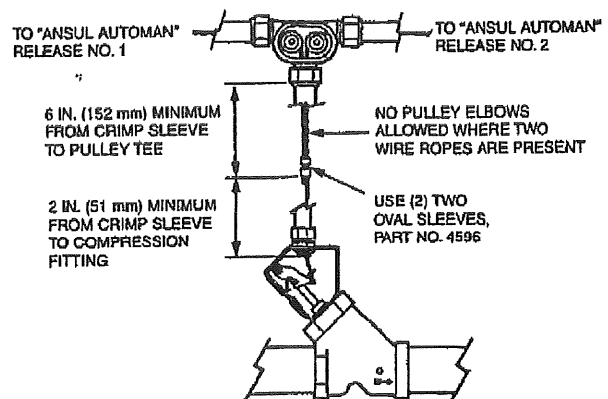
**FIGURE 63**

14. Raise air cylinder rod "UP" to its maximum extended position. See Figure 58.
15. Manually pull wire rope to remove excess slack.

**NOTICE**

**DO NOT ACTUATE THE MECHANICAL GAS VALVE.** Each Mechanical Gas Valve System must have gas valve cocked and air cylinder rod extended "UP" to its maximum extension before completing next step.

16. Slide stop sleeve against air cylinder rod, make certain all slack is removed from wire, and crimp stop sleeve. See Figure 58.
17. Cut off any excess wire rope approximately 3/4 in. (2 cm) from end of stop sleeve.
18. Note: If utilizing a pulley tee to operate a single mechanical gas valve from two (2) ANSUL AUTOMAN releases, see Figure 64 for installation instructions. Maximum length of wire rope to each ANSUL AUTOMAN release must not exceed 150 ft. (45.7 m) and maximum number of elbows must not exceed 20.



**FIGURE 64**  
001091



# Certificate of Occupancy



## CITY OF PORTLAND, MAINE

Department of Planning and Urban Development  
Building Inspections Division

Location: 91 Auburn St

CBL: 375- C-001-001

Issued to: A & D Realty LLC

Date Issued: December 19, 2011

**This is to certify** that the building, premises, or part thereof, at the above location, built-altered-changed as to use under Building Permit No. 2011-10-2436-CH OF USE, has had a final inspection, has been found to conform substantially to the requirements of the Building Code and the Land Use Code of the City of Portland, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

Suite W

APPROVED OCCUPANCY

Retail/Little Caesars Pizza  
Use Group M  
Type 2B  
IBC-2009

Limiting Conditions: NONE

Approved:

*DKH*

(Date)

*[Signature]*

Inspector

*[Signature]*

Inspections Division Director

Notice: This certificate identifies the legal use of the building or premises, and ought to be transferred from owner to owner upon the sale of the property.





# Certificate of Occupancy



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PORTION OF BUILDING OR PREMISES

Suite W

APPROVED OCCUPANCY

Retail/Little Caesars Pizza  
Use Group M  
Type 2B  
IBC-2009

Limiting Conditions: NONE

Approved:

*DKH*

(Date)

*[Signature]*

Inspector

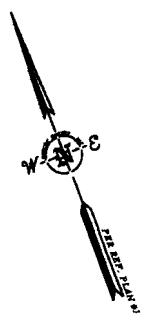
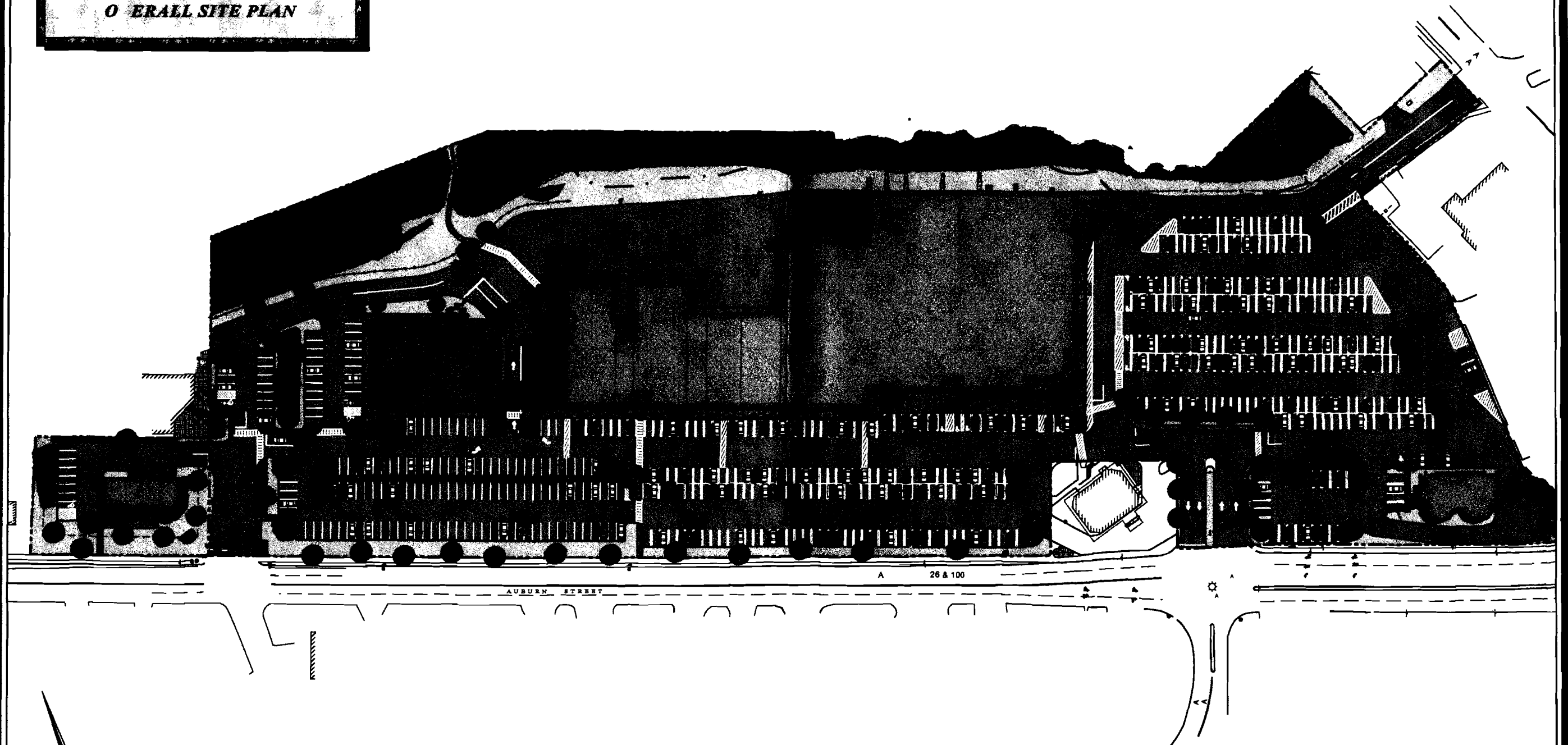
*[Signature]*

Inspections Division Director

Notice: This certificate identifies the legal use of the building or premises, and ought to be transferred from owner to owner upon the sale of the property.

**NORTHGATE SHOPPING CENTER  
A B RN STREET  
PORTLAND, MAINE**

**OVERALL SITE PLAN**



**APPLEDORE  
ENGINEERING**

177  
03801  
(603) 433-8818  
4, 2009

2042B-

**DEMOLITION NOTES**

- ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN OWNER'S PROPERTY. REMOVE, CLEAN, AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA.
- COMPLY WITH EPA REGULATIONS AND HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED.
- IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER. OWNER WILL REMOVE HAZARDOUS MATERIALS UNDER A SEPARATE CONTRACT.
- MAINTAIN SERVICES/SYSTEMS INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS. BEFORE PROCEEDING WITH DEMOLITION, PROVIDE TEMPORARY SERVICE SYSTEMS THAT BYPASS AREAS OF SELECTIVE DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICES/ SYSTEMS TO OTHER PARTS OF THE BUILDING.
- LOCATE, IDENTIFY, SHUT OFF, DISCONNECT, AND CAP OFF UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS SERVING AREAS TO BE SELECTIVELY DEMOLISHED.
- PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
- PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN OR CONSTRUCTION BEING DEMOLISHED.
- PROVIDE TEMPORARY WEATHER PROTECTION TO PREVENT WATER LEAKAGE AND DAMAGE TO STRUCTURE AND INTERIOR AREAS.
- PROTECT WALLS, CEILINGS, FLOORS, AND OTHER EXISTING FINISH WORK THAT ARE TO REMAIN. ERECT AND MAINTAIN DUST/PROOF PARTITIONS, COVER AND PROTECT FURNITURE, FURNISHINGS, AND EQUIPMENT THAT HAVE NOT BEEN REMOVED.
- NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION.
- PROMPTLY REMOVE DEMOLISHED MATERIALS FROM OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM. DO NOT BURN DEMOLISHED MATERIALS.
- ITEMS TO BE REMOVED:
  - SPECIFIC ITEMS AS INDICATED BY NOTE AND LEGEND.
  - SUSPENDED CEILING IN ALL AREAS.

**PARTITION TYPES**

- P1** 3 5/8" 20 GAUGE STEEL STUD FRAMING 16" O.C.  
5/8" GYPSUM BOARD BOTH SIDES  
ACOUSTIC INSULATION FULL HEIGHT  
PARTITION HEAD UP TO ROOF DECK  
SLIP TRACK AT HEAD  
ACOUSTICAL SEALANT AT FLOOR TRACK
- P2** 3 5/8" 20 GAUGE STEEL STUD FRAMING 16" O.C.  
5/8" GYPSUM BOARD BOTH SIDES  
ACOUSTIC INSULATION FULL HEIGHT  
PARTITION HEAD UP TO 6" ABOVE CEILING  
SHAKE TO STRUCTURE ABOVE  
ACOUSTICAL SEALANT AT FLOOR TRACK

NOTE: PARTITIONS AND WALLS NOT OTHERWISE NOTED BY PARTITION TYPE OR BY NEW WORK KEYNOTE ARE EXISTING TO REMAIN. PATCH AS NECESSARY AND PAINT.

**GENERAL NOTES**

- BEFORE BEGINNING WORK AT THE SITE, AND THROUGHOUT THE COURSE OF THE WORK, INSPECT AND VERIFY THE LOCATION AND CONDITION OF EVERY ITEM AFFECTED BY THE WORK UNDER THIS CONTRACT AND REPORT DISCREPANCIES TO ARCHITECT BEFORE BEGINNING WORK RELATED TO THAT BEING INSPECTED.
- THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS CONTRACT. INSPECT THOSE AREAS, ASCERTAIN WORK NEEDED, AND DO THAT WORK IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS, AT NO ADDITIONAL COST.
- DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS, OR OTHER STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED.
- PROTECT EXISTING WORK TO REMAIN FROM DAMAGE.
- REPAIR, PATCH, AND FINISH OR REFINISH AS APPLICABLE, TO MATCH ADJACENT EXISTING FINISHES. THOSE EXISTING SURFACES DAMAGED OR NEWLY EXPOSED DURING PERFORMANCE OF THE WORK.
- PATCH EXISTING WALL SURFACES AS NEEDED TO PROVIDE A SMOOTH SURFACE FOR FINISHES.
- EXCEPT IN SPACES WHERE NO WORK UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES, AND SIMILAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHERE OR NOT FURRING IS INDICATED. INSULATE IN UNREATED SPACES.
- WHERE CONDUITS, WIRES, PIPES, AND SIMILAR ITEMS ARE TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS, NEATLY CHASE THE WALLS OR PARTITIONS, INSTALL THE ITEMS, AND PATCH THE WALLS OR PARTITIONS TO MAKE THE INSTALLATION NOT DISCERNIBLE IN THE FINISHED WORK.
- WHERE "MATCH EXISTING" IS INDICATED, NEW CONSTRUCTION OR FINISHES, AS APPROPRIATE TO THE NOTE, SHALL MATCH THE EXISTING IN EVERY PARTICULAR.
- DIMENSIONS ARE TO FINISH WALL SURFACE AND TO OPENING CENTERLINE UNLESS NOTED OTHERWISE.
- TENANT PLANS BY LITTLE CAESAR ENTERPRISES ARE INCORPORATED BY REFERENCE.

**MECHANICAL SYSTEM NOTES**

- PROVIDE ADDITIONS AND MODIFICATIONS TO EXISTING HVAC SYSTEM TO PROVIDE ADEQUATE HEAT, COOLING, AND VENTILATION TO RENOVATED SPACES. PROVIDE SPIRAL DUCT IN EXPOSED STRUCTURE CEILING AREAS.

**PLUMBING SYSTEM NOTES**

- PROVIDE ADDITIONS AND MODIFICATIONS TO EXISTING SUPPLY AND WASTE PIPING AS NECESSARY TO CONNECT NEW FIXTURES.
- PLUMBING FIXTURES: PROVIDE FIXTURES INDICATED ON TENANT PLANS.

**SPRINKLER SYSTEM NOTES**

- PROVIDE MODIFICATIONS TO EXISTING SPRINKLER SYSTEM AS NECESSARY TO PROVIDE COVERAGE TO RENOVATED AREAS.

**LIFE SAFETY SYSTEM NOTES**

- PROVIDE MODIFICATIONS TO EXISTING LIFE SAFETY SYSTEM AS NECESSARY TO PROVIDE COVERAGE TO RENOVATED AREAS: FIRE ALARM, EXIT SIGNS, AND EMERGENCY LIGHTING.

**ELECTRICAL SYSTEM NOTES**

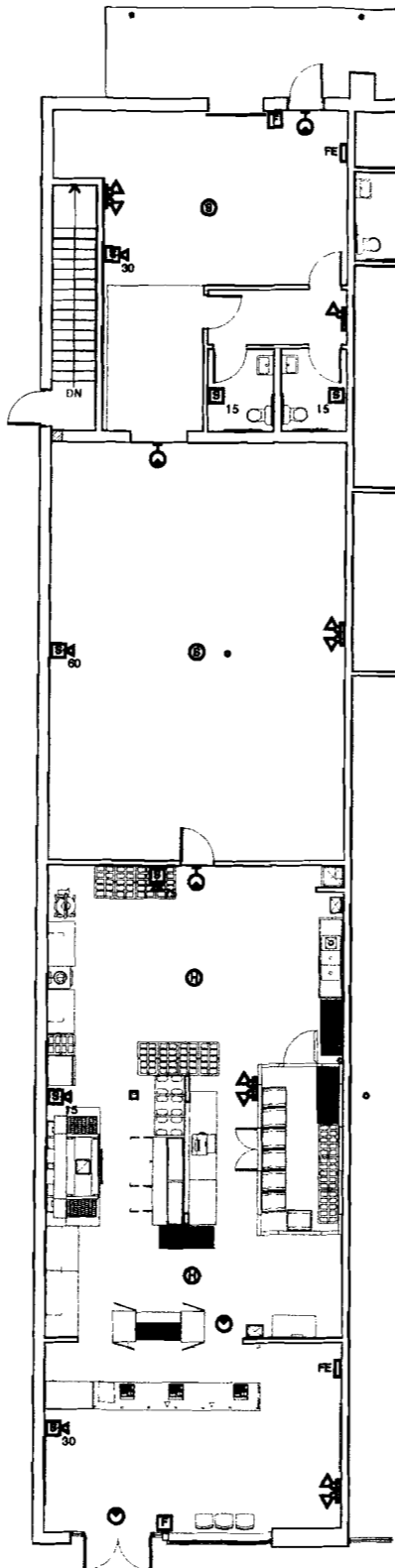
- PROVIDE MODIFICATIONS TO ELECTRICAL SYSTEM AS SHOWN ON TENANT PLANS AND AS NEEDED IN RENOVATED SPACES, INCLUDING NEW DISTRIBUTION PANEL.
- PROVIDE NEW LIGHT FIXTURES OF TYPE SPECIFIED IN TENANT PLANS AND ELSEWHERE IN SUFFICIENT QUANTITIES TO PROVIDE SPECIFIED LIGHTING LEVELS.
- PROVIDE POWER WIRING AND DEVICES AS SPECIFIED IN TENANT PLANS.
- PROVIDE J BOXES AND CONDUITS AT LOCATIONS SPECIFIED IN TENANT PLANS FOR DATA WIRING BY OTHERS.

**DOOR NOTES**

- ALL INTERIOR DOOR LEAVES ARE 3'-0" X 7'-0" SOLID CORE WOOD, IN HOLLOW METAL FRAMES, WITH LEVER HANDLE HARDWARE.

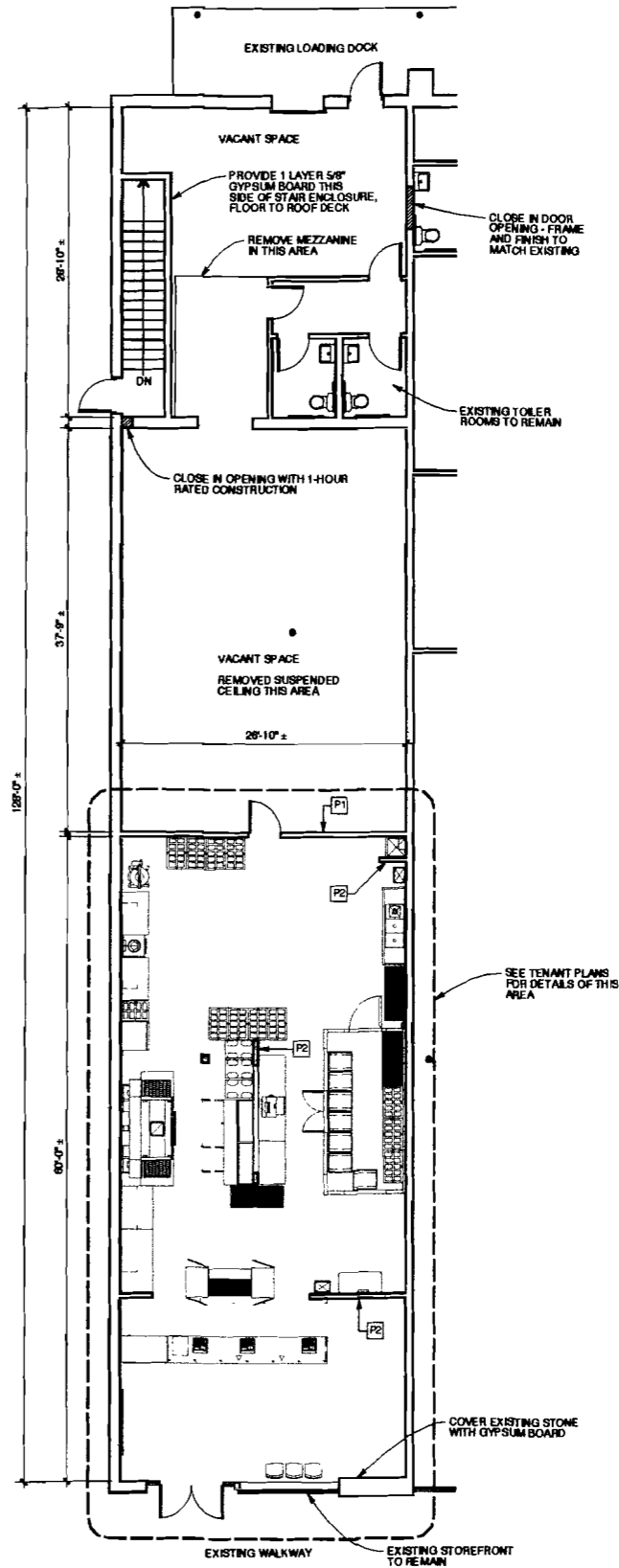
**FINISH NOTES**

- FINISH MATERIALS AND COLORS AS SPECIFIED IN TENANT PLANS.



**2 LIFE SAFETY PLAN**  
SCALE: 1/8" = 1'-0"  
2' 4' 8' 16'

- LIFE SAFETY PLAN LEGEND**
- EMERGENCY LIGHT DOUBLE HEAD
  - EMERGENCY LIGHT SINGLE HEAD
  - EXIT SIGN WALL MOUNT
  - EXIT SIGN CEILING MOUNT
  - FIRE ALARM PULL STATION
  - HORN STROBE - NUMBER INDICATES CANDELA RATING
  - STROBE - NUMBER INDICATES CANDELA RATING
  - HEAT DETECTOR
  - SMOKE DETECTOR
  - FIRE EXTINGUISHER



**1 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"  
2' 4' 8' 16'



**Michael Charek Architects**

25 Hartley Street  
Portland, Maine 04103  
(207) 761-0556



**Little Caesar Pizza Northgate Plaza**

91 Auburn Street  
Portland, ME 04103

**Title**

PLANS AND NOTES

**Scale:** AS NOTED

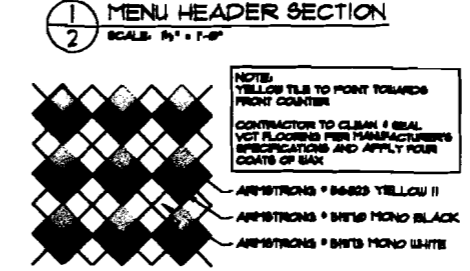
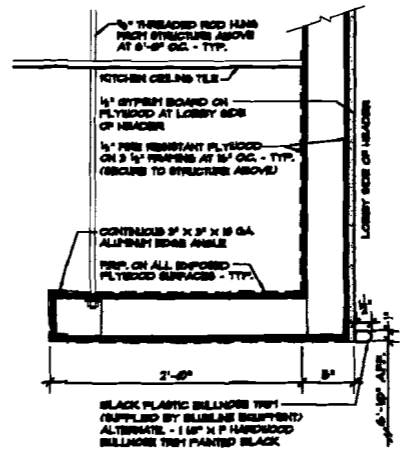
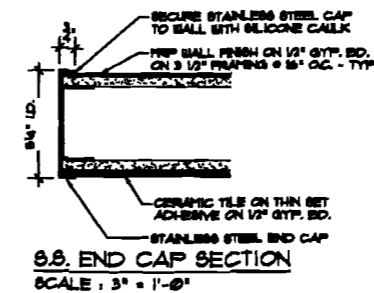
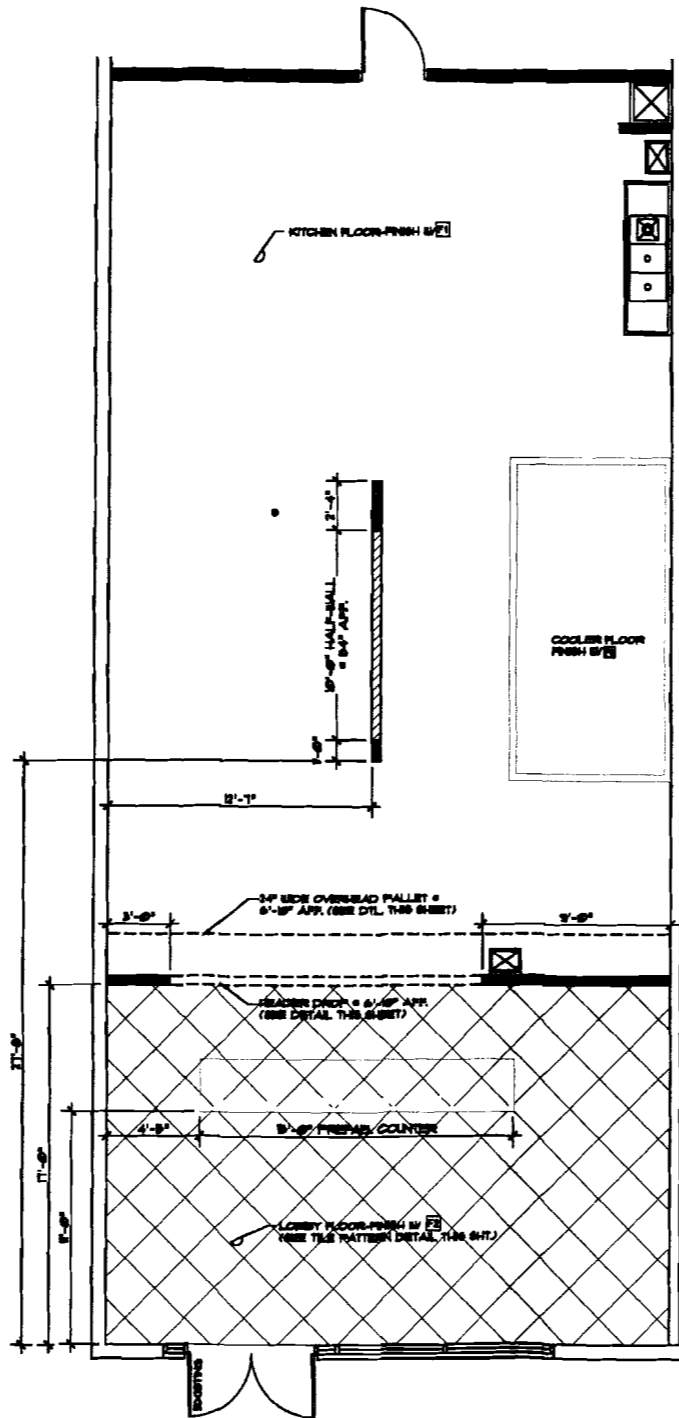
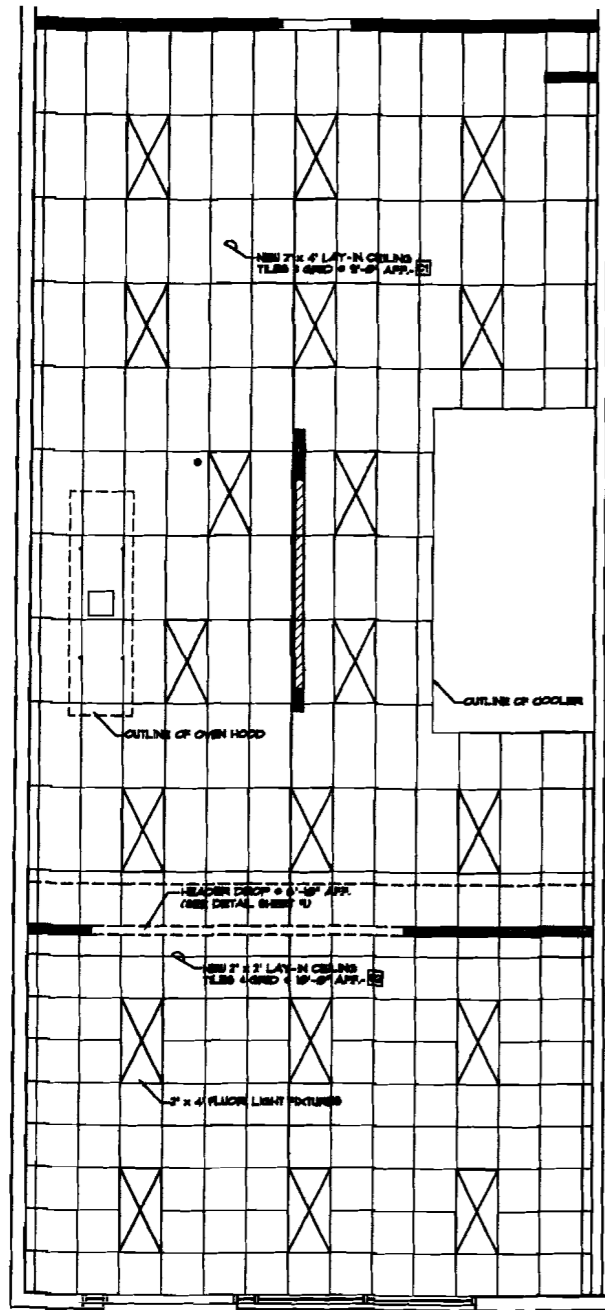
**Date:** 10/3/11

**Revisions**

**ISSUED FOR PERMIT**

**Sheet**

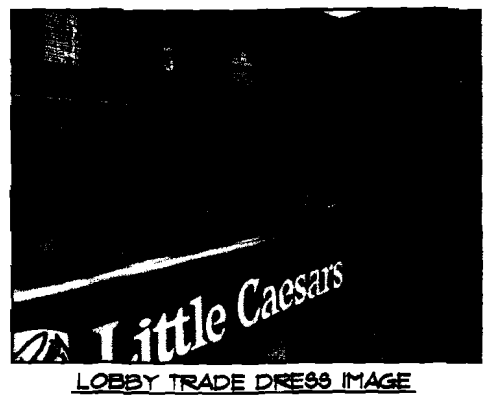
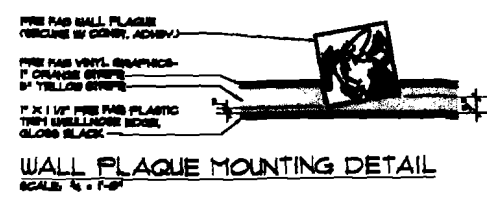
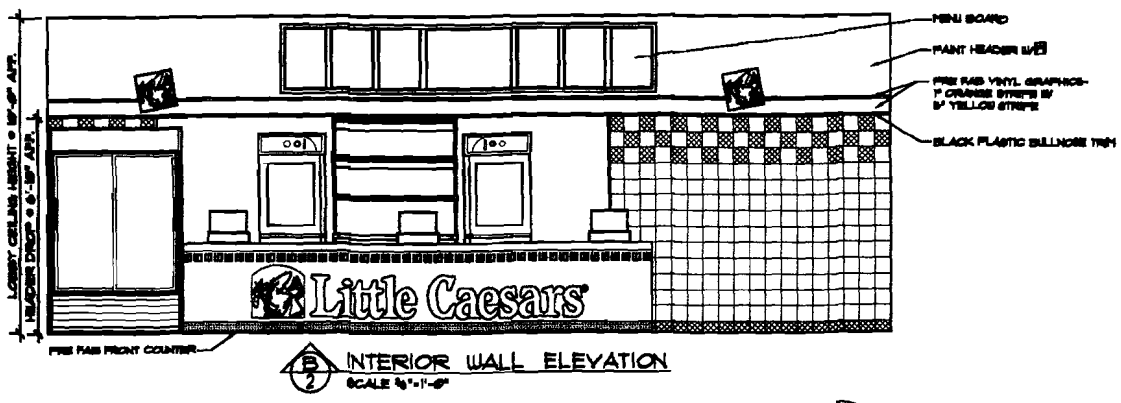
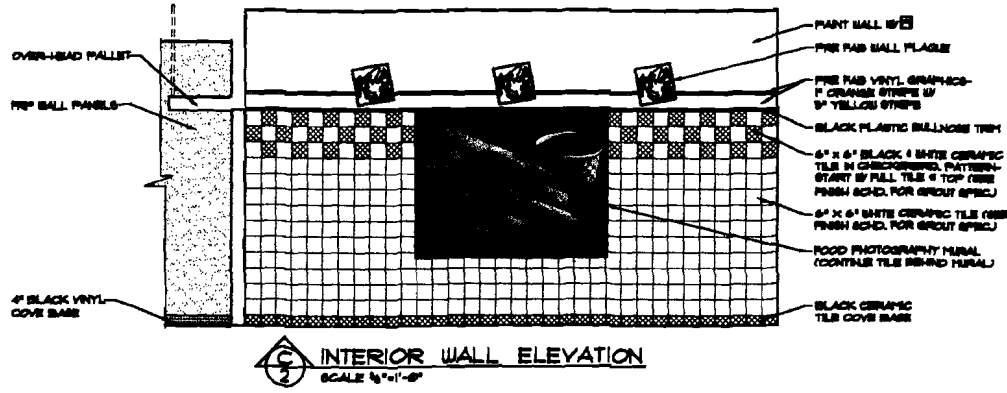
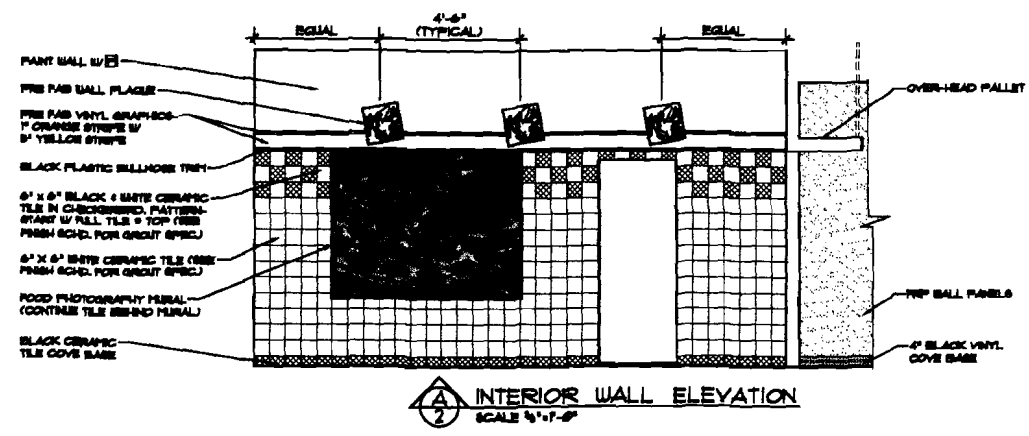
**A1**



| FINISH SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>FINISH NOTES</b><br>1. ALL KITCHEN WALL FINISHES ARE TYPE [ ] WITH A 4" VINYL COVE BASE UNLESS NOTED OTHERWISE.<br>2. ALL LOBBY WALL FINISHES ARE TYPE [ ] TO 8'-10" A.F.F. WITH GYP. BD. PAINTED [ ] FROM 8'-10" A.F.F. TO CEILING UNLESS NOTED OTHERWISE. (SEE ELEVATIONS SHEET 2.)<br>3. ALL RESTROOM WALL FINISHES ARE TYPE [ ] UNLESS NOTED OTHERWISE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| <b>FLOORINGS</b><br>[ ] KITCHEN: VINYL COMPOSITE TILE 12"x12" IMP. ARMSTRONG, STANDARD BRIDLEON IMPERIAL TEXTURE, 61941, POLAR WHITE.<br>CONTACT: www.armstrong.com 800-222-2828<br>ALTERNATE: AEROCK, CORKERA COLOR, V488, CLOUD WHITE.<br>CONTACT: www.aerock.com 878-355-2888<br>[ ] LOBBY: VINYL COMPOSITE TILE (LOBBY) 3/4"x6" CHESEBROUGH PATTERN ON 4" ANGLE, 12"x12" IMP. ARMSTRONG, STANDARD BRIDLEON IMPERIAL TEXTURE, 61941 POLAR WHITE & 6196 CLARING BLACK WEAVER TILE, 8888, YELLOW I.<br>CONTACT: www.armstrong.com 800-222-2828<br>WALL BASE: PROVIDE 4" VINYL COVE BASE, JOISTBONTE, 40 BLACK FOR ALL WALLS EXCEPT CERAMIC TILE WALL.<br>CONTACT: www.joistbonte.com 800-222-8678                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>UPGRADE FLOORING</b><br>[ ] KITCHEN: 6"x6"x1/2" QUARRY TILE WITH PVP 1/2" COVER TOP BASE, AMERICAN CLEAR, GLASSY NATURAL, 146 BRONZE GRAY, 517 GROUT JOINTS, HYDROBOND, H44 MISTY GRAY.<br>CONTACT: www.beck.com 800-728-7946<br>ALTERNATE: DALTILE, GLASSY TEXTURES, 6118 ASHEN GRAY, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.daltile.com 916-882-4746<br>CONTACT: www.mapei.com 888-882-8734<br>[ ] KITCHEN: SOLID SHEET VINYL FLOOR W/ CONTINUOUS BASE (MIN. 4" HIGH) W/ 3/8" 3/4" COVER W/ CONTINUOUS SOLID BACKER ROD, MANHATTAN RESINANCE, 1458 BLACK GLAZED.<br>CONTACT: www.manhattan.com 888-911-2282<br>[ ] LOBBY: CREATE 3/4" x 3/4" CHESEBROUGH PATTERN ON 4" ANGLE WITH DALTILE, 12" x 12", COLOR SCHEDULE, ARCTIC WHITE BRIDLED B&B & BLACK BRIDLED B&B, 3/16" GROUT JOINTS, HYDROBOND, H44 MISTY GRAY.<br>CONTACT: www.daltile.com 916-882-4746<br>CONTACT: www.mapei.com 800-728-7946<br>ALTERNATE: CREATE 3/4" x 3/4" CHESEBROUGH PATTERN ON 4" ANGLE WITH AMERICAN CLEAR, 12" x 12", 1258 BRONZE, 1461 1418 PROST MATTE & 1461 1218 QUARTZ MATTE, 3/16" GROUT JOINTS, HYDROBOND, H44 MISTY GRAY.<br>CONTACT: www.americanclear.com 916-882-4746<br>CONTACT: www.beck.com 800-728-7946                                                                                                                                                                                                                                                                                                                                  |  |
| <b>WALLS</b><br>[ ] 4" x 8" CERAMIC WALL TILE, FLORIDA TILE, BRIGHT GLAZE, 1 WHITE & 3 BLACK, GROUT W/MAPEL, HYDROBOND, H44 MISTY GRAY.<br>CONTACT: www.beck.com 800-728-7946<br>ALTERNATE: DALTILE, 604 GLOSS, 6100 WHITE & 6111 BLACK, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.daltile.com 916-882-4746<br>CONTACT: www.mapei.com 888-882-8734<br>AMERICAN CLEAR, W/WHITE, 020 WHITE & 020 GLOSS BLACK, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.americanclear.com 916-882-4746<br>WALL BASE: PROVIDE 4" x 8" BANTARY COVE BASE, FLORIDA TILE, BRIGHT, 6-9410-6 BLACK, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.beck.com 800-728-7946<br>ALTERNATE: DALTILE, BANTARY COVE BASE, 6111 BLACK, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.daltile.com 916-882-4746<br>CONTACT: www.mapei.com 888-882-8734<br>ALTERNATE: MARITTE, PVC BASE MOLDING, 1025 BLACK, GROUT W/MAPEL, 27 SILVER.<br>CONTACT: www.marittemolding.com 800-877-1221<br>[ ] FIBERGLASS REINFORCED POLYESTER PANEL, (PVP), MATRICE ST, 1150 COTTON WHITE.<br>CONTACT: www.beck.com 800-485-0282<br>[ ] FIBERGLASS REINFORCED POLYESTER PANEL, (PVP), MATRICE ST, 1150 COTTON WHITE.<br>CONTACT: www.beck.com 800-485-0282                                                                                                                                                                                                                                                                                                                                                |  |
| <b>CEILING</b><br>[ ] KITCHEN CEILING - 24" x 24" x 1/2" LAY-IN PANEL, UNITED STATES GYPSUM (USG) SHEETROCK, CLIMAPLUS, 8270 WHITE, VINYL FINISH.<br>CONTACT: www.usg.com 800-852-2828<br>[ ] LOBBY CEILING - 24" x 24" x 1/2" LAY-IN PANEL, ARMSTRONG, DUNE 1774, WHITE, TELLAS EDGE DETAIL.<br>CONTACT: www.armstrong.com 877-276-7676<br>ALTERNATE: CERTAIN TEED, CHEMERS, 02-404 WHITE W/VEINCH EDGE.<br>CONTACT: www.certainteed.com 800-222-2828<br>ALTERNATE: LMG, SOLFIRE CLIMAPLUS, 817 EDGE, 7670 WHITE.<br>CONTACT: www.usg.com 800-852-2828<br>NOTE: PROVIDE MATCHING TIE BRD SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>PAINT</b><br>[ ] BERAMIN MOORE, INTERIOR READY MIXED, 149 ATRIUM WHITE.<br>CONTACT: www.beraminmoore.com 800-244-0400<br>NOTE: USE BERAMIN MOORE 800 8190 BERAMIN CHARGE, 225 FOR INTERIOR. USE BERAMIN MOORE 800 8190 BELL FINISH HOUSE PAINT FOR EXTERIOR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>GENERAL NOTES</b><br>1. ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND MUNICIPAL CODES HAVING JURISDICTION OVER THIS PROJECT.<br>2. CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONTRACT TO VERIFY EXISTING FIELD CONDITIONS. ALL EXISTING DIMENSIONS SHALL BE VERIFIED AND/OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SAME.<br>3. ANY VARIATIONS OF THE DRAWINGS TO BE APPROVED BY LITTLE CAESARS ARCHITECTURAL DEPARTMENT (773) 891-0000.<br>4. GENERAL CONTRACTOR TO REMOVE, UNLOAD AND INSTALL ALL KITCHEN EQUIPMENT, FINISH MATERIALS AND ALL OTHER ITEMS DELIVERED TO STORE LOCATION.<br>5. GENERAL CONTRACTOR TO PROVIDE A MINIMUM OF ONE FIRE EXTINGUISHER IN COMPLIANCE WITH THE LOCAL FIRE MARSHAL. LOCATION & QUANTITY OF FIRE EXTINGUISHER(S) TO BE DETERMINED BY THE FIRE MARSHAL.<br>6. PROVIDE NON-COMBUSTIBLE PLYWOOD BACKING IN LIEU OF GYPSUM BOARD AS BACKING FOR WALL MOUNTED FIRE EXTINGUISHERS AT ALL 10" A.F.F. SEE FLOOR/EQUIPMENT PLAN FOR SHELTER LOCATIONS & WALL FINISH.<br>7. OVER TO BE SET IN PLACE PRIOR TO INSTALLATION OF COUNTERTOP.<br>8. CERAMIC TILE TO BE SEALED WITH SILICONE SEALANT.<br>9. WALL PARTITION KEY:<br>[ ] TYP. INTERIOR PARTITION WALL, 1/2" GYPSUM BOARD EACH SIDE OF 1 1/2" x 3 1/2" x 3/8" GA. METAL STUDS AT 16" O.C. WITH INDICATED FINISH.<br>[ ] EXISTING WALL<br>[ ] EXISTING WALL TO BE REMOVED (SHOWN DASHED)<br>[ ] HALF HEIGHT WALL (3/4" APP.)<br>[ ] EQUIPMENT INDICATOR [ ] INTERIOR FINISH INDICATOR<br>11. [ ] INDICATES PHONE LOCATION ON FLOOR/EQUIPMENT PLAN. |  |

NOTICE: Attention Little Caesars franchisees, architects and contractors. These design intent drawings represent the approved layout of equipment and finishes for this Little Caesars location. Any reconfiguration or modification requires written approval from Little Caesars Architecture and Design Department. Modification without such approval may result in reconstruction or default.

**Little Caesar's ENTERPRISES, INC.**  
 2211 WOODWARD AVENUE DETROIT, MICHIGAN 48201-3400  
 (313) 471-6000  
 DRAWN BY: PJP  
 NO. 142-000  
 1 OF 2



| EQUIPMENT SCHEDULE |                                      | INDICATES EQUIPMENT CALLOUT |                      | ELECTRICAL REQUIREMENTS |       | PLUMBING REQUIREMENTS |      | BLUELINE EQUIPMENT |         |
|--------------------|--------------------------------------|-----------------------------|----------------------|-------------------------|-------|-----------------------|------|--------------------|---------|
| #                  | DESCRIPTION                          | MANUFACTURER                | MODEL NO.            | BLU LINE NO.            | PHASE | VOLTS                 | POLE | WIRE               | CONDUIT |
| 10                 | 8" x 12" WORK TABLE (2" x 8")        | CLASE MANUFACTURING CO.     | 211-8225-ALDHI       | 21119                   |       |                       |      |                    |         |
| 11                 | 8" x 12" WORK TABLE (2" x 8")        | CLASE MANUFACTURING CO.     | 211-8225-ALDHI       | 21119                   |       |                       |      |                    |         |
| 12                 | 8" x 12" WORK TABLE (2" x 8")        | CLASE MANUFACTURING CO.     | 211-8225-ALDHI       | 21119                   |       |                       |      |                    |         |
| 13                 | 8" x 12" WORK TABLE (2" x 8")        | CLASE MANUFACTURING CO.     | 211-8225-ALDHI       | 21119                   |       |                       |      |                    |         |
| 14                 | POLYMER DRAINAGE BACK (2" x 8")      | METRO                       | 1722270              | 1722270                 |       |                       |      |                    |         |
| 15                 | POLYMER DRAINAGE BACK (2" x 8")      | METRO                       | 1722270              | 1722270                 |       |                       |      |                    |         |
| 16                 | POLYMER DRAINAGE BACK (2" x 8")      | METRO                       | 1722270              | 1722270                 |       |                       |      |                    |         |
| 17                 | DOUGH RACKS (2" x 8")                | LOGWOOD                     | 1475 24 24 2         | 21148                   |       |                       |      |                    |         |
| 18                 | SUPER BRCTA WIRE RACK (2" x 8")      | METRO                       | 1448282              | 21148                   |       |                       |      |                    |         |
| 19                 | 3 COMP. POT BRN W/ OVERCOURTES       | ABRO MANUFACTURING CO.      | 1874-210-14-1        | 21148                   |       |                       |      |                    |         |
| 20                 | 100 SERVICE BASKIN (BY CONTRACTOR)   | BY CONTRACTOR               |                      |                         |       |                       |      |                    |         |
| 21                 | HAND BISE                            | ABRO MANUFACTURING CO.      | 187                  | 21148                   |       |                       |      |                    |         |
| 22                 | TANKLESS GAS WATER HEATER            | FINISH                      | BY CONTRACTOR        |                         |       |                       |      |                    |         |
| 23                 | REINFORCE SOCA COOLER                | TILE MANUFACTURING          | 2024-12              | BY LOCAL BOTTLER        | 10.2  | 120V                  | 1    |                    |         |
| 24                 | GRAB BAR                             | BY CONTRACTOR               |                      |                         |       |                       |      |                    |         |
| 25                 | SLAKE W/STAIN PANEL (2" x 12")       | NATIONAL BSH                | 107-14-18207         | 21148                   |       |                       |      |                    |         |
| 26                 | GAS COOKTOP OVER (2 COOK)            | BOSCH                       | 3-17-2025-T26        | 1722270                 |       |                       |      |                    |         |
| 27                 | HOOD SYSTEM (2" x 8")                | HALTON                      | 3-17-2025-T26        | 1722270                 |       |                       |      |                    |         |
| 28                 | EXHAUST FAN (2" x 8")                | ADCOXER                     | 2912-141-16          | 21148                   |       |                       |      |                    |         |
| 29                 | EXHAUST FAN ROOF CURB (2" x 8")      | VEB TECH INC.               | 21148                |                         |       |                       |      |                    |         |
| 30                 | TEMPERED SUPPLY FAN (2" x 8")        | AVON                        | FD-225-2-14-1722-12  | 21148                   |       |                       |      |                    |         |
| 31                 | FAN ROOF CURB (2" x 8")              | AVON                        | 21148                |                         |       |                       |      |                    |         |
| 32                 | VENTILATION INTERLOCK CONTROL PANEL  | HALTON                      | 21148                |                         |       |                       |      |                    |         |
| 33                 | WATER                                | ADCOXER                     | 102428               | 21148                   |       |                       |      |                    |         |
| 34                 | FRIEZER                              | ARTISAIR                    | 1722270              | 21148                   |       |                       |      |                    |         |
| 35                 | WATER HEATER (2" x 8")               | FINISH                      | BY CONTRACTOR        |                         |       |                       |      |                    |         |
| 36                 | WATER                                | ADCOXER                     | 102428               | 21148                   |       |                       |      |                    |         |
| 37                 | UNDER COUNTER SINK                   | BLUEDDY SINKS               | 21148                |                         |       |                       |      |                    |         |
| 38                 | PHONE STATION (2" x 8")              | METRO                       | 21148                |                         |       |                       |      |                    |         |
| 39                 | NOT & READY DOUBLE RACK              | LOGWOOD                     | 1475 24 24 2         | 21148                   |       |                       |      |                    |         |
| 40                 | 7 1/2" x 8" FOOD PHOTOGRAPHY MURAL   | ADCOXER                     | CARRIAGE PHOTOGRAPHY | 21148                   |       |                       |      |                    |         |
| 41                 | TIME CLOCK (M/T/W/TH/FR)             | BLUESIRE                    | 21148                |                         |       |                       |      |                    |         |
| 42                 | HEATED HOLDING CHIMNEY               | ORBIT CO.                   | 1722270              | 21148                   |       |                       |      |                    |         |
| 43                 | 2" x 8" FIRE-FAB PICTURE COUNTER     | CLASE MANUFACTURING CO.     | LOE                  | 21148                   |       |                       |      |                    |         |
| 44                 | CUSTOMER WAITING CHAIR               | 21148                       | 21148                |                         |       |                       |      |                    |         |
| 45                 | DOUBLE WALL WASHING UNIT (2" x 8")   | METRO                       | 21148                |                         |       |                       |      |                    |         |
| 46                 | 7 1/2" x 8" x 8" WALK-IN COOLER      | BLUESIRE                    | 21148                |                         |       |                       |      |                    |         |
| 47                 | 8 1/2" x 14" STAINLESS STEEL BND CAP | LANPRED                     | LOE                  | 21148                   |       |                       |      |                    |         |
| 47A                | 8 1/2" x 14" STAINLESS STEEL BND CAP | LANPRED                     | LOE                  | 21148                   |       |                       |      |                    |         |
| 48                 | DOUGH HOLDER                         | AM MANUFACTURING            | 1722270              | 21148                   |       |                       |      |                    |         |
| 49                 | 4" BRNND STATION                     | METRO                       | 21148                |                         |       |                       |      |                    |         |
| 50                 | WITH HEAT LAMP & 2" SOLID SHELF      | APW WYOTT                   | FD-14                | 21148                   |       |                       |      |                    |         |
| 51                 | DISPOSABLE STATION STORAGE BRD       | METRO                       | 21148                |                         |       |                       |      |                    |         |
| 52                 | 4" LANDING STATION SHELF & GRID      | METRO                       | 21148                |                         |       |                       |      |                    |         |

**LITTLE CAESARS STANDARD SIGN SPECIFICATION**

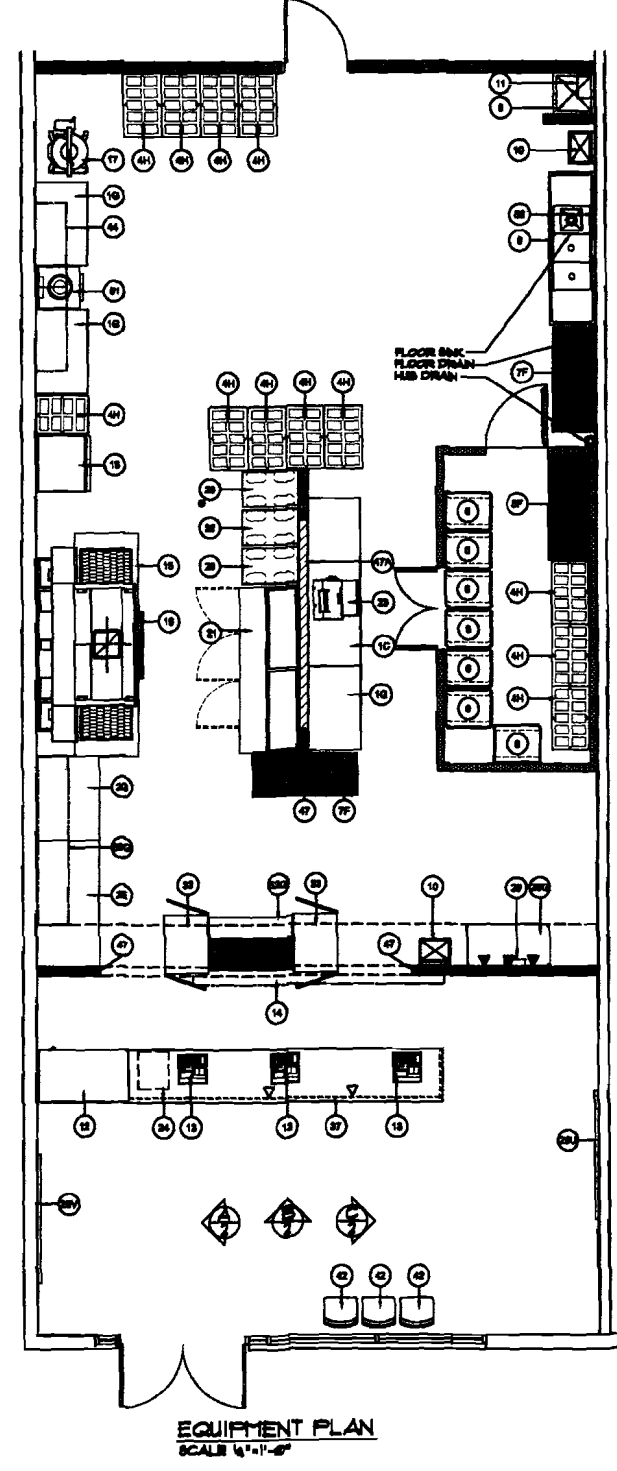
LITTLE CAESARS SIGNS ARE TO BE ONLY MANUFACTURED BY APPROVE LITTLE CAESAR SIGN MANUFACTURER. CONTACT BLUELINE 1-800-447-1933 OR VISIT FORUM FOR APPROVED VENDORS. 10-1-06

**SIGN SQUARE FOOTAGE:**

| SIGN HGT. | LENGTH     | OUTLINE S.F. | SQUARED OFF S.F. | AMPS |
|-----------|------------|--------------|------------------|------|
| 18"       | 11'-1 1/2" | 13 S.F.      | 18 S.F.          | 3    |
| 24"       | 14'-10"    | 23 S.F.      | 31 S.F.          | 4    |
| 28"       | 17'-3 5/8" | 31 S.F.      | 42 S.F.          | 5    |
| 32"       | 19'-9 3/8" | 40 S.F.      | 51 S.F.          | 7    |
| 36"       | 22'-3"     | 51 S.F.      | 70 S.F.          | 7    |

**RACEWAY MOUNTED SIGN SECTION**

NOTES: 1. SIGN TO BE U.L. APPROVED & LABELED.  
 2. POWER REQUIREMENTS 3 - 7 AMPS.  
 3. RACEWAY TO BE PAINTED TO MATCH FASCIA.



**BLUELINE FINISH QUANTITY INFORMATION**

|                  |          |             |
|------------------|----------|-------------|
| LOBBY FLOORING   | = 480    | SQ. FT.     |
| KITCHEN FLOORING | = 1080   | SQ. FT.     |
| WALK-IN COOLER   | = 110    | SQ. FT.     |
| WALL TILE        | = 88'-0" | LINEAR FEET |
| WALL STRIPE      | = 70'-0" | LINEAR FEET |

NOTICE: Attention Little Caesars franchisees, franchise architects and contractors. These design intent drawings represent the approved layout of equipment and finishes for this Little Caesars location. Any reconfiguration or modification requires written approval from Little Caesars Architecture and Design Department. Modification without such approval may result in reconstruction or default.

**Little Caesars ENTERPRISES, INC.**  
 2211 WOODWARD AVENUE DETROIT, MICHIGAN 48207-8400  
 (313) 471-6000

JOB: LITTLE CAESARS  
 10 ALUMINUM ANGLE  
 PORTLAND, ME AREA  
 10/11/05  
 DRAWN BY: PGP  
 NO. 842-0001

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