

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that CITY OF » PORTLAND

Located At 947 WESTBROOK

Job ID: 2011-07-1767-HVAC

CBL: 199 - - A - 001 - 002 - - - -

has permission to Install grease duct and duct sump system  
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

*[Handwritten signature and date 8/8/11]*

**Fire Prevention Officer**

**Code Enforcement Officer / Plan Reviewer**

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

## 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.**

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

*Strengthening a Remarkable City, Building a Community for Life • [www.portlandmaine.gov](http://www.portlandmaine.gov)*

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-07-1767-HVAC

Located At: 947 WESTBROOK

CBL: 199 - - A - 001 - 002 - - - -

## **Conditions of Approval:**

### **Fire**

Install shall comply with NFPA 96. A compliance letter is required.

### **Building**

1. Installation shall comply with 2003 International Mechanical Code and State of Maine Oil and Solid Fuel Board Laws and Rules.







# General Building Permit Application

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

Location/Address of Construction: <u>PORTLAND INTERNATIONAL SEAPORT</u> <u>1001 WESTBROOK ST</u> <u>TERMINAL EXPANSION PROJECT</u>		
Total Square Footage of Proposed Structure/Area	Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot Chart# <u>199</u> Block# <u>A</u> Lot# <u>001002</u>	Applicant * <u>must be owner, Lessee or Buyer</u> * Name Address City, State & Zip	Telephone:
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name <u>PWM</u> Address <u>1001 WESTBROOK ST</u> City, State & Zip <u>PORTLAND ME 04102</u>	Cost Of Work: \$ <u>110,000.-</u> C of O Fee: \$ Total Fee: \$ <u>1,120</u>
Current legal use (i.e. single family) <u>Jet Port</u> Number of Residential Units _____ If vacant, what was the previous use? _____ Proposed Specific use: _____ Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>INSTALLATION OF GREASE TRAP AND DIRT SUMP SYSTEM IN CONCESSIONS AREA, 2ND FL., OF TERMINAL EXPANSION</u>		
Contractor's name: <u>TURNER CONSTRUCTION</u>		
Address: <u>TWO SEAPORT LANE</u>		
City, State & Zip: <u>BOSTON MA 02210</u>		Telephone: <u>617-593-1924</u>
Who should we contact when the permit is ready: <u>CUTLER FEAGLES</u>		Telephone: <u>756-8313</u>
Mailing address: <u>PWM 1001 WESTBROOK ST PORTLAND ME 04102</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.

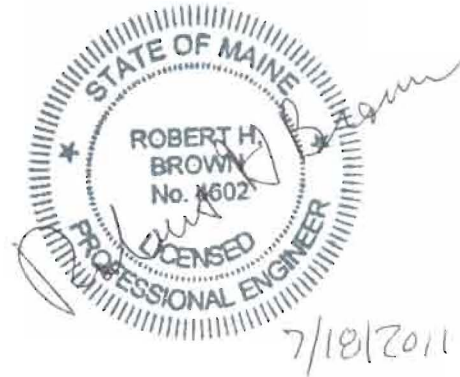
RECEIVED  
7/20/2011  
Dept. of Building Inspections  
City of Portland Maine

Signature: C. Feagles Date: 7/20/2011

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

May 5, 2011

Tammy Munson, Director of Inspections Division  
Department of Planning and Urban Development  
Portland City Hall  
389 Congress Street, Room 315  
Portland, Maine 04101



Subject: **Portland Jetport Concessions Area Grease Duct – Proposed Burger King**

Dear Tammy,

The proposed grease duct route for the Burger King concession at the Portland Jetport Terminal Expansion has a horizontal run of 120 linear feet. The ceiling space available is insufficient to allow the duct to pitch at 1" per foot as required for continuous horizontal duct runs of more than 75 feet as called out in IMC 2003 paragraph 506.3.7.

The same paragraph of the code allows a grease duct serving a Type I hood to slope at ¼" per foot when the horizontal run is 75 feet or less and the run terminates at a hood or an approved grease reservoir. The slope can be either in the direction of airflow or against the direction of airflow.

What is proposed is the routing of the duct to slope to an approved grease reservoir at an intermediate point in the duct run and slope the duct as follows:


- A 60 foot duct run from the base of the duct rise to the exhaust fan to the approved grease reservoir, sloped down at ¼" per foot as required by IMC 2003 506.3.7.
- A 36 foot duct run from the approved grease reservoir to a high point near the exhaust hoods, sloped up at ¼" per foot as required by IMC 2003 506.3.7.
- A 24 foot duct run from the high point near the hoods to the hoods. The first 10 feet of duct shall slope at a steeper angle than ¼" per foot and the last 14 feet shall slope at ¼" per foot as required by IMC 2003 506.3.7. The ductwork shall terminate at the hoods.
- The grease duct hoods shall be combined as allowed by paragraph 506.3.5 since the hoods meet the applicable criteria:
  - All interconnected hoods are located within the same story.
  - All interconnected hoods are located within the same room or adjoining rooms.
  - Interconnecting ducts do not penetrate assemblies required to be fire-resistance rated.
  - The grease duct system does not serve solid fuel-fired appliances.

Page 2  
Munson  
July 18, 2011

In addition, an Ansul Fire Suppression System shall be furnished and installed as part of the grease duct system and the Jetport has agreed to the responsibility for cleaning the ductwork on a quarterly basis.

In my opinion, the proposed grease duct system complies with the intent and the letter of the 2003 IMC and I am willing to so certify by the application of my Maine PE stamp to the kitchen hood and duct design drawings as the Engineer of Record.

Regards,  
AMEC Earth & Environmental, Inc.

A handwritten signature in cursive script that reads "Robert H. Brown".

Robert H. Brown, P.E.

RHB:sdg

Cc: Cuyler Feagles, Portland International Jetport

s:\533 gensler - portland jetport\mechanical\pwm grease duct - tammy munson.doc











**Portland Fire Department**  
**Fire Inspection/ Investigation Division**  
380 Congress Street, Portland Maine 04101  
207-874-8405



**MEETING AGENDA**  
**July 7, 2011**

- ✓ 1. **Re-Inspections**
  - Responsibilities
  - How much effort from the office
    - Not happening at Company Level
    - Might be handled with an inspection class
    - Second Letters
  
- ✓ 2. **Private Hydrant Program** *Unum*
  - Private Hydrant Standards (ordinance)
  - Focus efforts on site plan review / subdivisions
  
- ✓ 3. **Inspections Class** *Networking*
  - Dept. wide in Fall
  - Will address many company level issues
  - Decrease the work load in the office*Company level*
  
- ✓ 4. **Recommend Regular Fire Prevention Staff Mtgs**
  - Possibly monthly
  - Recommend Fire Prevention Bureau only
  
- ✓ 5. **Fireworks**
  - Putting it on the radar
  - How to handle
    - Sales
    - Building / Manufacturing
    - Permitting for Distribution
  
- ✓ 8. **Company Level Entertainment Inspections**
  - Recommend dropping program
  
- ✓ 9. **Central Station Alarm Box numbers** *Letter to P-One*
  - P-1 no more box #'s
  
- ✓ 10. **Fire Watch** *SOG + guidelines for D/CS*
  - Definition of???
  - Who does it when Landlord refuses?

✓ 11. **Training Budget**

- More classes for Fire Prevention
- Expectation of Fire Prevention knowing all the codes, need training.

✓ 12. **Street Closures**

- C-1 is approving all street closures
- C-4 will still be copied on everything

✓ 13. **PyroTechnics**

- Do we want to continue requiring permit?? *Continue*

✓ 14. **SOG's / Yellow Sticker**

- Yellow stickers are working well!!!!
  - Staying consistent with current policy
  - When does it actually go on building??
  - Meeting with Landlord assoc.
  - Severe violations

15. **PRESSING ISSUES**

✓ ○ **Masonic Temple**

- C-1 is still handling the situation???
- Hiring FF for events over 49 people?

*No one above first floor*

✓ ○ **Cushing Island**

- Potential issues with Assembly
- Bar and live entertainment

*Check w/ legal*

✓ ○ **538 Congress Street**

- Major issues

✓ ○ **Deliverance Center**

- How do we want to handle???
- Definite Yellow sticker!!

✓ ○ **193 Congress Street**

- Single means of egress
- Sprinkler system inadequate

*↓ yellow stickers + move to legal.*

✓ 16. **Fireground Responsibilities**

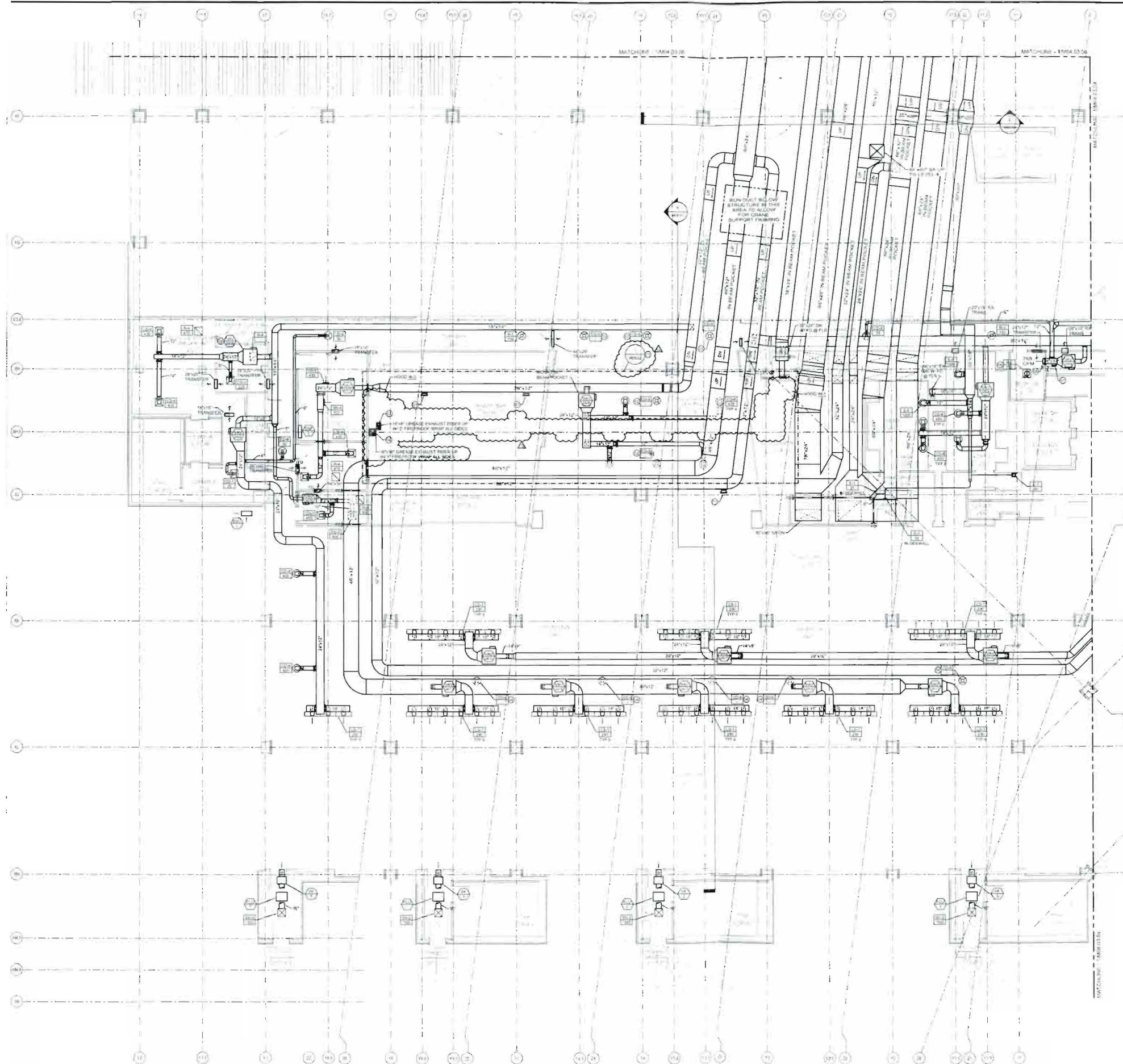
*3<sup>rd</sup> alarms*

✓ 17. *Stop automatic sprinkles test reports*

✓ 18. *Vehicles*

✓ 19. *Blackberry* **NO**





**SHEET NOTES**

- 1. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR SUPPLY WITH A FEET OF LEAD IN.
- 2. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR TRANSFER OF AIR FROM EXISTING CONDUIT TO NEW TAKEOFFS TO MAINTAIN AIR FLOW CAPACITY.
- 3. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR TRANSFER OF AIR FROM EXISTING CONDUIT TO NEW TAKEOFFS TO MAINTAIN AIR FLOW CAPACITY.
- 4. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR TRANSFER OF AIR FROM EXISTING CONDUIT TO NEW TAKEOFFS TO MAINTAIN AIR FLOW CAPACITY.
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- 9. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR TRANSFER OF AIR FROM EXISTING CONDUIT TO NEW TAKEOFFS TO MAINTAIN AIR FLOW CAPACITY.
- 10. VERIFY LISTED NEW SUPPLY TAKEOFFS FOR TRANSFER OF AIR FROM EXISTING CONDUIT TO NEW TAKEOFFS TO MAINTAIN AIR FLOW CAPACITY.

Portland International  
Jetport  
1001 Westbrook Street  
Portland, Maine 04102

Gensler

**nest** ASSOCIATES, INC.  
engineers • architects • surveyors • construction managers

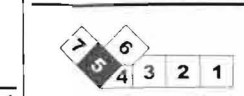
**GENERAL NOTES**

- A. SEE SHEET M04.03.01 FOR LEGEND AND GENERAL NOTES.
- B. SUPPLY DUCTWORK SHALL BE 36" MAXIMUM TO 18" MINIMUM PRESSURE CLASS FROM AIR HANDLER (EXCEPT CONNECTIONS TO DOWNSTREAM OF THE UNDERGROUND AREA). SUPPLY DUCTWORK SHALL THEN BE 36" MAXIMUM TO 18" MINIMUM PRESSURE CLASS TO THE AIR-POWERED VAV REGISTERS IN ALL AREAS AND TO THE SUPPLY REGISTERS AND DIFFUSERS IN THE BRIGADE HANDLING SPACE. RETURN DUCTWORK SHALL BE 36" MAXIMUM TO 18" MINIMUM PRESSURE CLASS FROM THE AIR HANDLER CONNECTIONS TO THE AIR HANDLER CONNECTIONS.
- C. LEAK-TEST ALL SUPPLY AND RETURN DUCT WORK UPSTREAM OF TERMINAL EQUIPMENT BEFORE PROCEEDING TO COLUMN. THIS SHEET IS ACCORDANCE WITH SPEC SECTION 231113 PARAGRAPHS 21.4.2.1 AND 21.4.2.2.
- D. LEAK-TEST ALL SUPPLY AND RETURN DUCT WORK UPSTREAM OF TERMINAL EQUIPMENT BEFORE PROCEEDING TO COLUMN. THIS SHEET IS ACCORDANCE WITH SPEC SECTION 231113 PARAGRAPHS 21.4.2.1 AND 21.4.2.2.

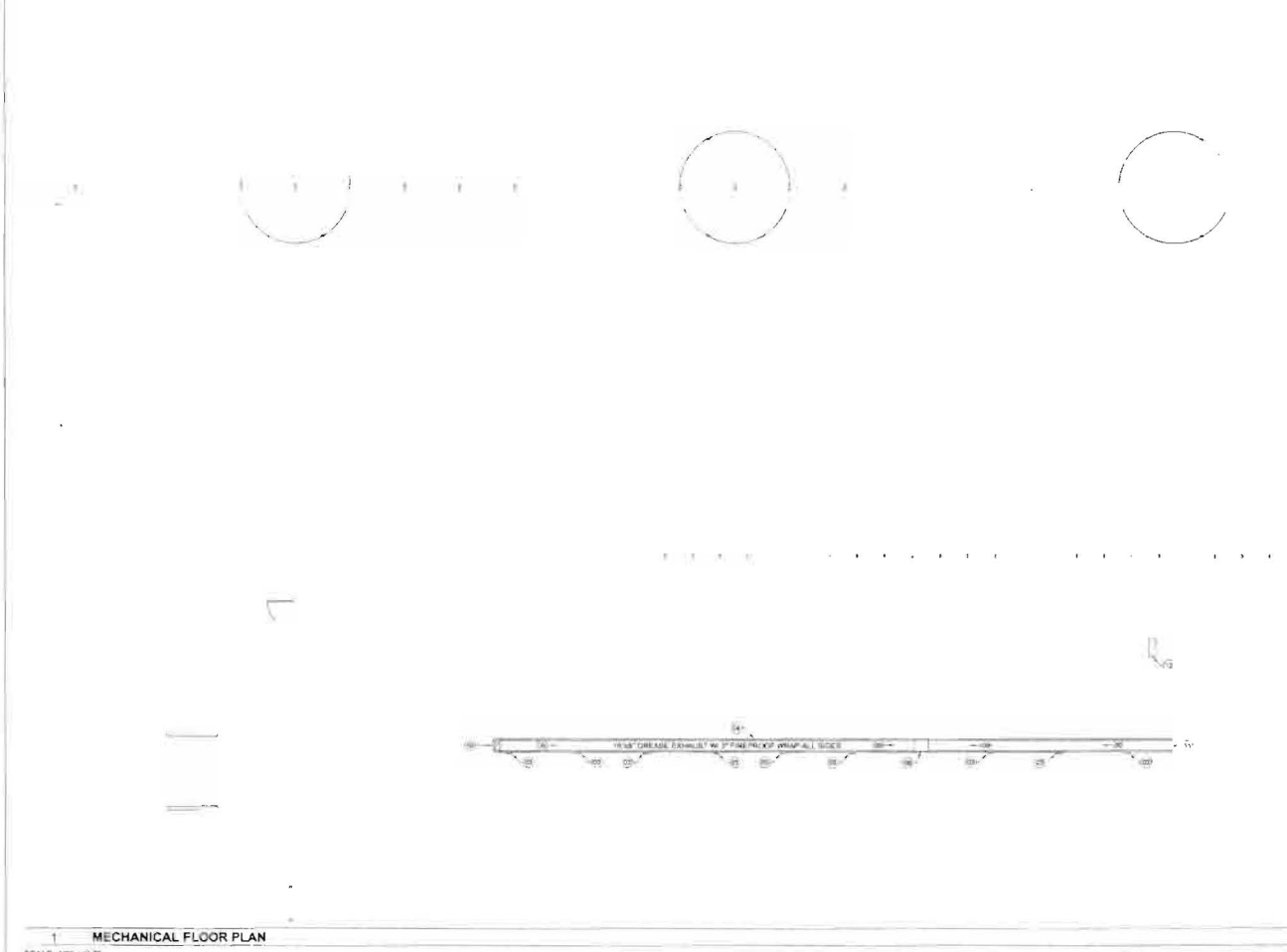
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**KEY PLAN**



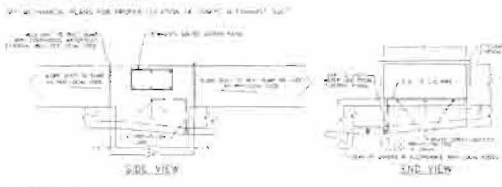




**SYSTEM PLAN KEY NOTES:**

1. SEE MECHANICAL FLOOR PLAN FOR DUCTWORK LAYOUT. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.
2. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.
3. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.
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5. ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.

**GREASE RESERVOIR**

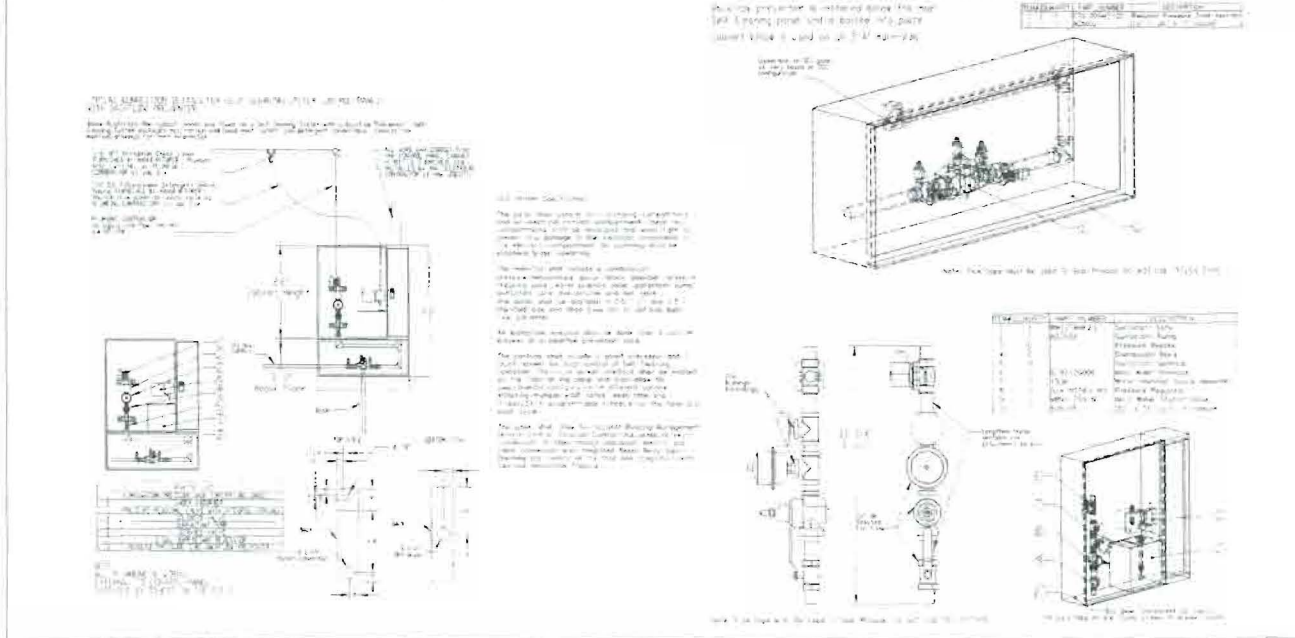


- INSTALLATION NOTES:**
1. THE GREASE RESERVOIR SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.
  2. THE GREASE RESERVOIR SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.
  3. THE GREASE RESERVOIR SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL FLOOR PLAN.

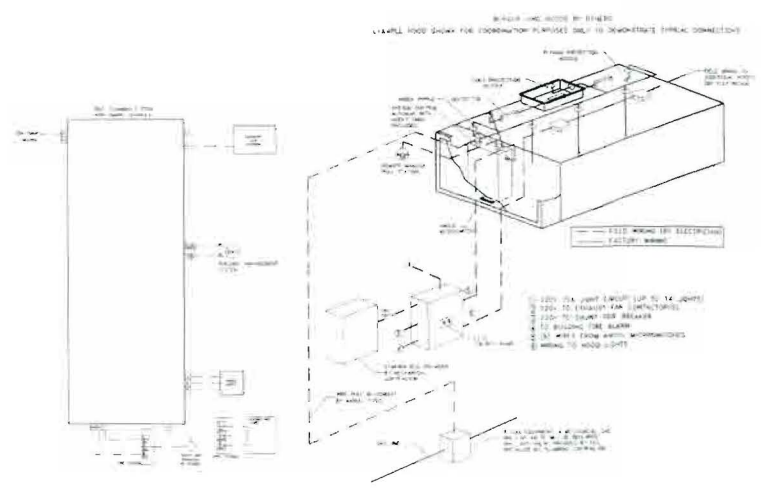
**GENERAL NOTES**

- AMEC GENERAL NOTES:**
- THE WORK OF THIS DRAWING IS A PORTION OF A COMPLETE GREASE DUCT INSTALLATION FROM EXHAUST HOODS IN A NEW BURGER KING CONCESSION SPACE TO AN EXHAUST FAN ON THE ROOF. THE MATERIALS AND EQUIPMENT SHALL BE COMPATIBLE WITH AND COORDINATED WITH HOST DRAWINGS M-2.01 AND M-3.01 FOR THE BURGER KING CONCESSION SPACE AND THE FIRE PROTECTION DRAWINGS ISSUED BY FIRE RISK MANAGEMENT. SEE GUEST DRAWING M08.02 AND TURNER COORDINATION DRAWINGS FOR ADDITIONAL DUCTWORK IN THIS AREA.
  - THE MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE 2003 INTERNATIONAL MECHANICAL CODE AND NFPA 96 STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS.
  - ELECTRICAL WORK NOTED ON THIS SHEET IS BY OTHERS.
  - VERTICAL GREASE EXHAUST DUCT EXHAUST RISER SHALL PENETRATE ROOF CURB AND TERMINATE 32" ABOVE ADJACENT ROOF LEVEL.

1 MECHANICAL FLOOR PLAN  
SCALE: 1/8" = 1'-0"



2 CAPTIVE-AIRE DUCT SUMP SYSTEM DETAILS  
SCALE: NONE



Revision table and project information:

Rev	Date	By	Checked
1	07/24/11	PNZ	JMB

Project Name: M08.02  
 Project Location: Portland International Jetport  
 Project Description: MECHANICAL PART & ENLARGED PLANS  
 Scale: AS SHOWN  
 Drawing Number: M08.02  
 Drawing Title: MECHANICAL PART & ENLARGED PLANS  
 Drawing Date: 07/24/11  
 Drawing Author: PNZ  
 Drawing Checker: JMB  
 Drawing Date: 07/24/11  
 Drawing Title: MECHANICAL PART & ENLARGED PLANS  
 Scale: AS SHOWN