

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

Please Read Application And Notes, If Any, Attached

PERMIT

PERMIT ISSUED

Permit Number: 091390

This is to certify that TREEHOUSE LLC /Bourgoin & Sons

DEC 18 2009

has permission to Install Type I Hood System

AT 45 DANFORTH ST

CB # 040 B032001

City of Portland

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or otherwise finished-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. [Signature] (202)

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature] 12/18/09
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 09-1390	Issue Date:	CBL: 040 B032001
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Location of Construction: 45 DANFORTH ST	Owner Name: TREEHOUSE LLC	Owner Address: PO BOX 491	Phone:
Business Name:	Contractor Name: Bourgoin & Sons	Contractor Address: 123 Davis Road Durham	Phone 2077491878
Lessee/Buyer's Name	Phone:	Permit Type: Hood Systems, Commerical	Zone: B-3

Past Use: Commercial - Restaurant	Proposed Use: Commercial - Restaurant - Install Type I Hood System	Permit Fee: \$140.00	Cost of Work: \$11,265.00	CEO District: 1
		FIRE DEPT: w/conditions 12/8/09 <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type I Type: Hood IME 2003	

Proposed Project Description: Install Type I Hood System	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Ldobson	Date Applied For: 12/08/2009	Zoning Approval
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<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 information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 12/8/09	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<p>Historic Preservation</p> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
	<p>PERMIT ISSUED</p> <p>DEC 18 2009</p> <p>City of Portland</p>		

CERTIFICATION

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

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

City of Portland, Maine - Building or Use Permit

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

Permit No: 09-1390	Date Applied For: 12/08/2009	CBL: 040 B032001
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Location of Construction: 45 DANFORTH ST	Owner Name: TREEHOUSE LLC	Owner Address: PO BOX 491	Phone:
Business Name:	Contractor Name: Bourgoin & Sons	Contractor Address: 123 Davis Road Durham	Phone (207) 749-1878
Lessee/Buyer's Name	Phone:	Permit Type: Hood Systems, Commerical	

Proposed Use: Commercial - Restaurant - Install Type 1 Hood System	Proposed Project Description: Install Type 1 Hood System
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Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 12/08/2009
Note: **Ok to Issue:**

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tammy Munson **Approval Date:** 12/18/2009
Note: **Ok to Issue:**

1) The hood, duct and exhaust shall be installed per IMC 2003 and NFPA 96
This permit is approved based on the plans submitted and updated for reductions in the cleaances based on the application of a UL approved fire wrap or equivalent assembly per code.

2) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.

3) Installation shall comply with 2003 International Mechanical Code

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Ben Wallace Jr. **Approval Date:** 12/08/2009
Note: **Ok to Issue:**

1) All work shall comply with NFPA 96. A letter of compliance is required.

PERMIT ISSUED
DEC 18 2009
City of Portland



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: 45 DANFORTH ST		
Total Square Footage of Proposed Structure		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 40 B 32	Owner: TREEHOUSE LLC 70 Center ST 3rd Floor Portland	Telephone:
Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone: BLUE COLD DIST 10 Snow Canning Rd Scarborough ME 04074 885-0107	Cost Of Work: \$ <u>11265.00</u> Fee: \$ _____ C of O Fee: \$ _____
Current legal use (i.e. single family) _____ If vacant, what was the previous use? _____ Proposed Specific use: <u>RESTAURANT</u> Is property part of a subdivision? _____ If yes, please name _____ Project description: INSTALL TYPE I HOOD SYSTEM		
Contractor's name, address & telephone: Bourgon + Sons		
Who should we contact when the permit is ready: <u>BILL SAWYER</u> Mailing address: _____ Phone: <u>885-0107</u>		

RECEIVED
DEC - 8 2009
Dept. of Building Inspections
City of Portland Maine

Please submit all of the information outlined in the Commercial Application 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, 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 of applicant: <u>Bill Sawyer</u>	Date: <u>12-7-09</u>
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This is not a permit; you may not commence ANY work until the permit is issued.



PORTLAND MAINE

Strengthening a Remarkable City. Building a Community for Life • www.portlandmaine.gov

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 X 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? _____

Is the duct work Stainless steel or other type of steel? 16ga galv ✓ If Other, what type? _____

Thickness of the steel for the hood 16ga ✓

Thickness of the duct for the hood 16ga ✓

Type of Hood and Duct Supports

3/8 thread rod plus 3/8 Lags into truss and wall studs

Type of seams and Joints Solid welded ✓

Grease Gutters provided? Grease box at fan ✓

Hood Clearance reduction to Combustibles design /specs:
1" panel 24ga Galv 1" minimal face with 24ga stainless steel

Duct Clearance reduction to Combustibles design /specs:
Duct wrap in 3m Grease duct wrap - zero clearance?

Vibration Isolation System:

N/A

Air Velocity within the duct system 3575 .75 S.P.

Grease accumulation prevention system:

Grease box fan at fan

Cleanouts N/A 4' straight duct

Grease Duct enclosure 3m Grease duct wrap

Exhaust Termination Roof Wall

Fire Suppression System 4 gal

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

roof 18" off base 40" AT top 10' from opening end (combustibles)

Exhaust fan distance from property lines 10'

Exhaust fan distance from other vents or openings 10'

Exhaust fan distance from adjacent buildings 10'

Exhaust fan height above adjoining grade 28'

Hood Specs

Style of Hood Canopy

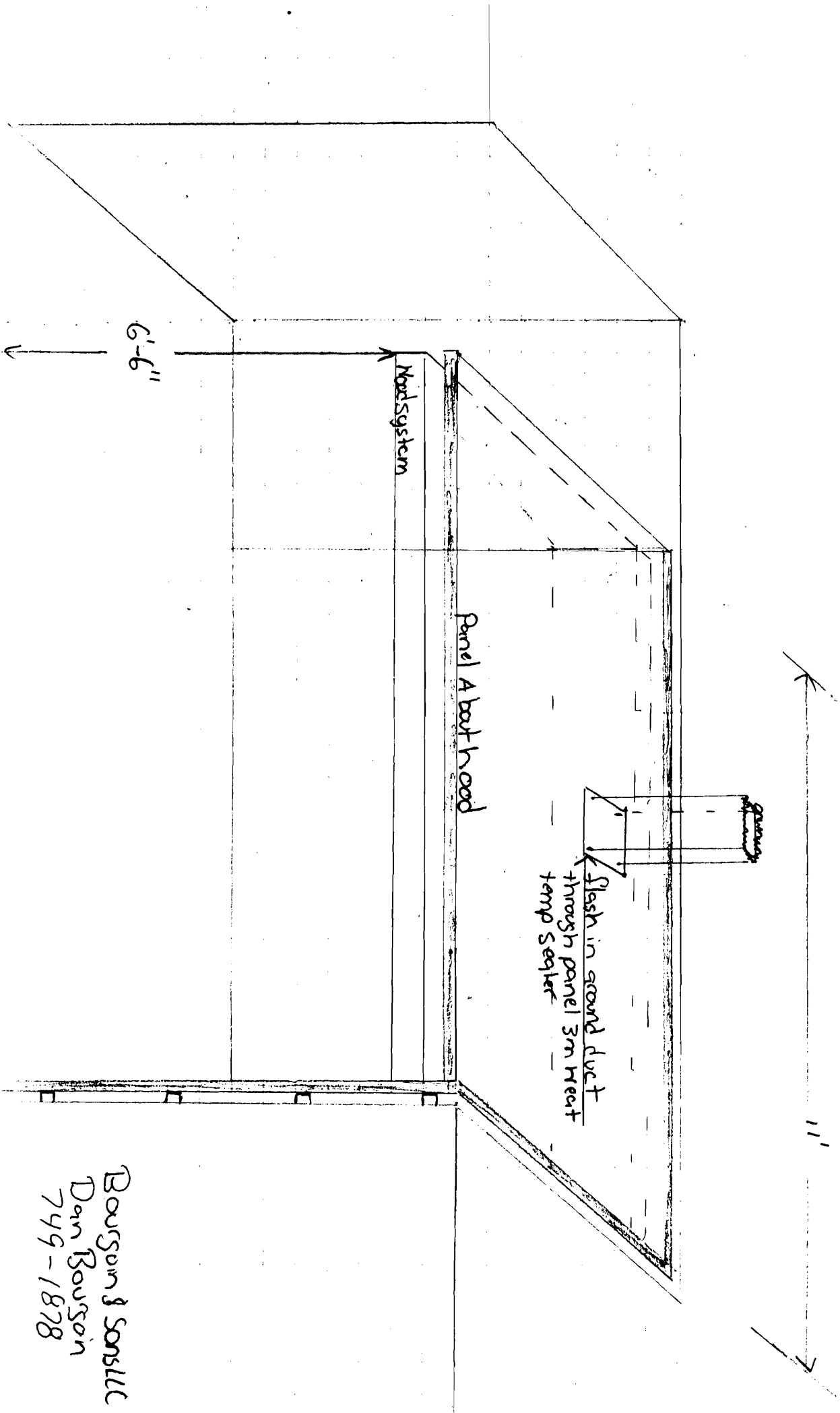
Type of Filter Grease baffle's

Height of filter above nearest cooking surface 36"

Capacity of hood CFM 3575

Make up Air system description and capacity

mounted on roof with low pressure box bring
in 2680 CFM .192 S.P.



Boussem & Sons LLC
 Dan Boussem
 749-1878

Flash and sealed weather tight

hinge k.i.t

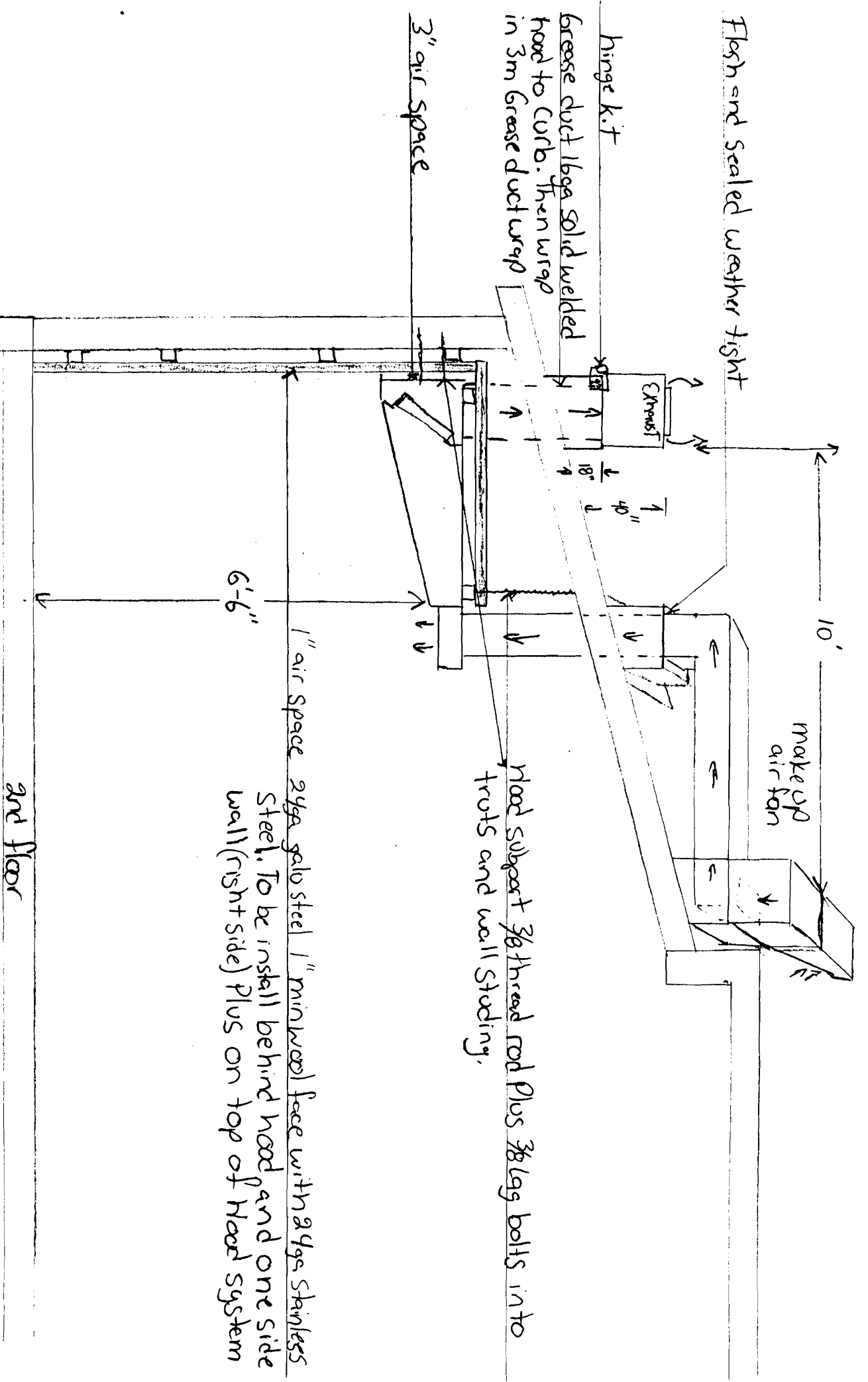
Grease duct 16ga solid welded hood to curb. Then wrap in 3m Grease duct wrap

3" air space

1" air space 24ga galv steel 1" min wool face with 24ga skinless steel. To be install behind hood and one side wall (right side) Plus on top of hood system

hood support 3/8 thread rod Plus 3/8 lag bolts into truss and wall Studing.

make up air fan



Bourgoin & Sons LLC
Dan Bourgoin
749-1878

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
1	NCA18FA	NCA18FA		3575	0.750	869	1.500	1	115	20.4	186.99
3	DU30HFA	DU30HFA		700	0.400	1248	0.250	1	115	4.0	61.27

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
2	NSAU2-G12	G12	NSAU.2		2681	0.500	678	1.000	1	115	14.0	280.77

FAN OPTIONS

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts
2	1 - Gravity Backdraft Damper for Size 2 Housing
3	1 - Fan Base Ceramic Seal - For Grease Ducts
	1 - 1 15-BDD Damper

CURB ASSEMBLIES

NO.	ON FAN	ITEM	SIZE
1	# 1	Curb	26.500"W x 26.500"L x 20.000"H Pitched Vented Hinged
2	# 2	Curb	32.500"W x 32.500"L x 14.000"H Pitched
3	# 3	Curb	19.500"W x 19.500"L x 22.000"H Pitched Vented Hinged

ROOF PITCH FOR CURB(S) MUST BE SPECIFIED PRIOR TO RELEASING ORDER
 _____:12

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

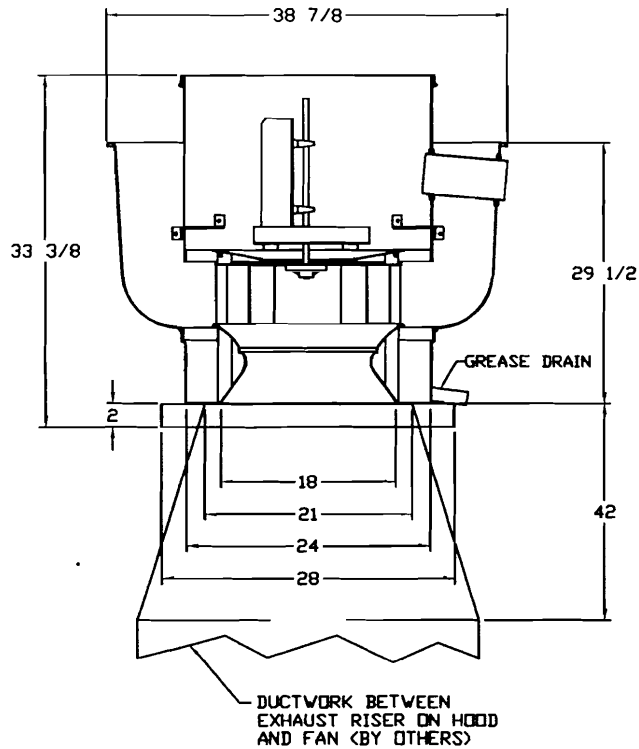
SIGNATURE *[Signature]*

Your Title _____ Date _____



JOB O'Brien (11')	
LOCATION	
DATE 12/4/2009	JOB # 1049354
DWG # O'Brien(11')	DRAWN BY BFC
REV. 1.00	SCALE 8.5' x 11'

FAN #1 NCA18FA - EXHAUST FAN



FEATURES:

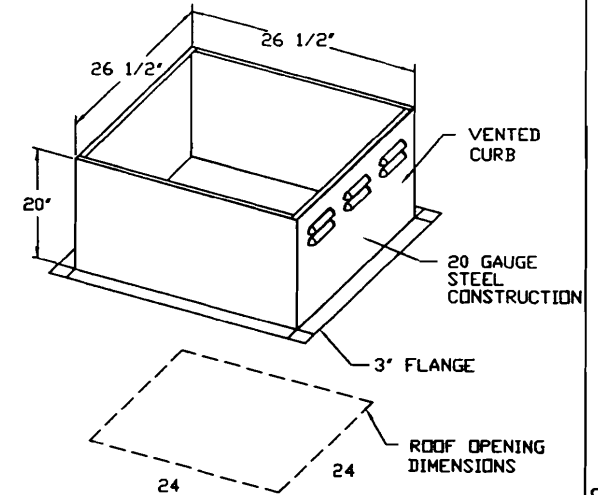
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
 EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

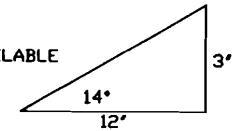
OPTIONS

- GREASE BOX
- FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
 EXAMPLE: 7/12 PITCH = 30° SLOPE



2/12 pitch

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Approved with NO Exception Taken

Revise and Resubmit

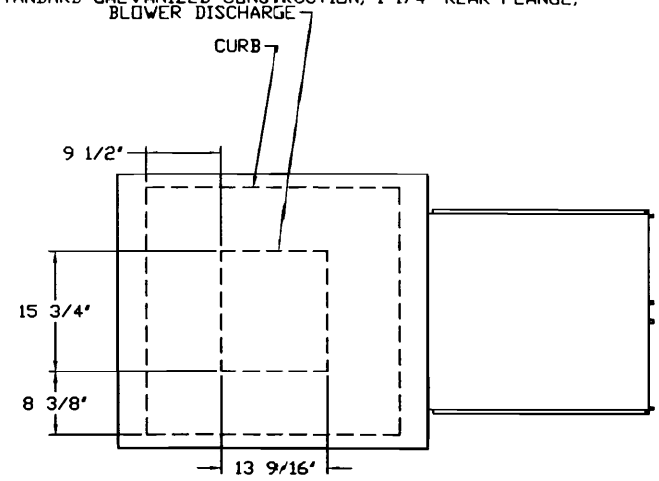
SIGNATURE *Dan Murray*

Your Title _____ Date _____

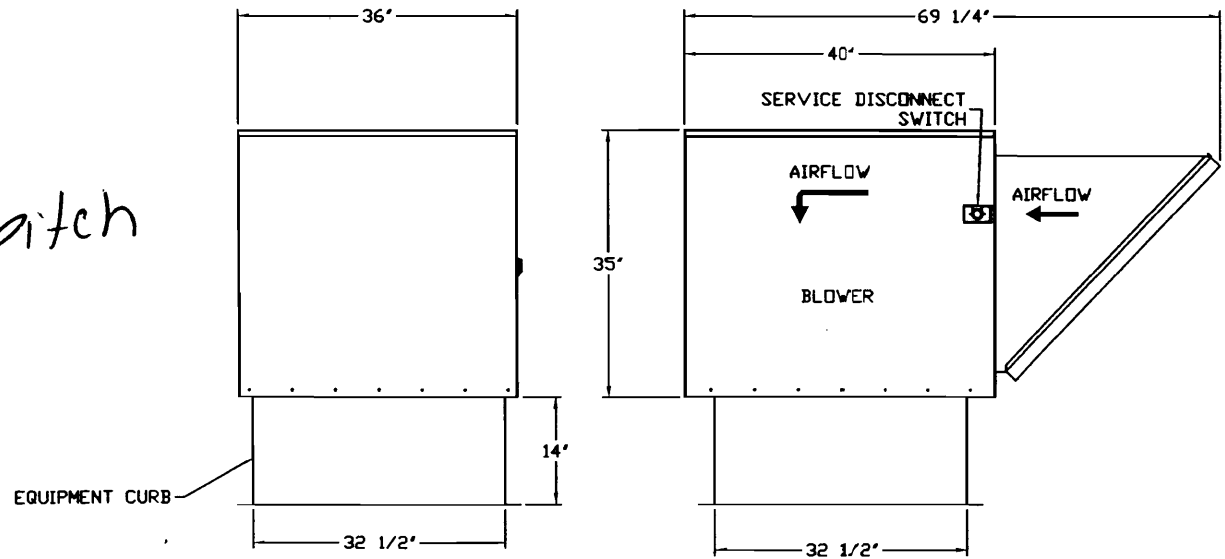


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LOCATION	
DATE 12/4/2009	JOB # 1049354
DWG # O'Brien(11')	DRAWN BY BFC
REV. 1.00	SCALE 8.5' x 11'

- FAN #2 NSAU2-G12 - SUPPLY FAN
 1. SUPPLY UNIT WITH 12" BLOWER IN SIZE #2 HOUSING
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. GRAVITY BACK DRAFT DAMPER 22" X 24", STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 2 UNTEMPERED FAN HOUSING (5182)



2/12 pitch



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

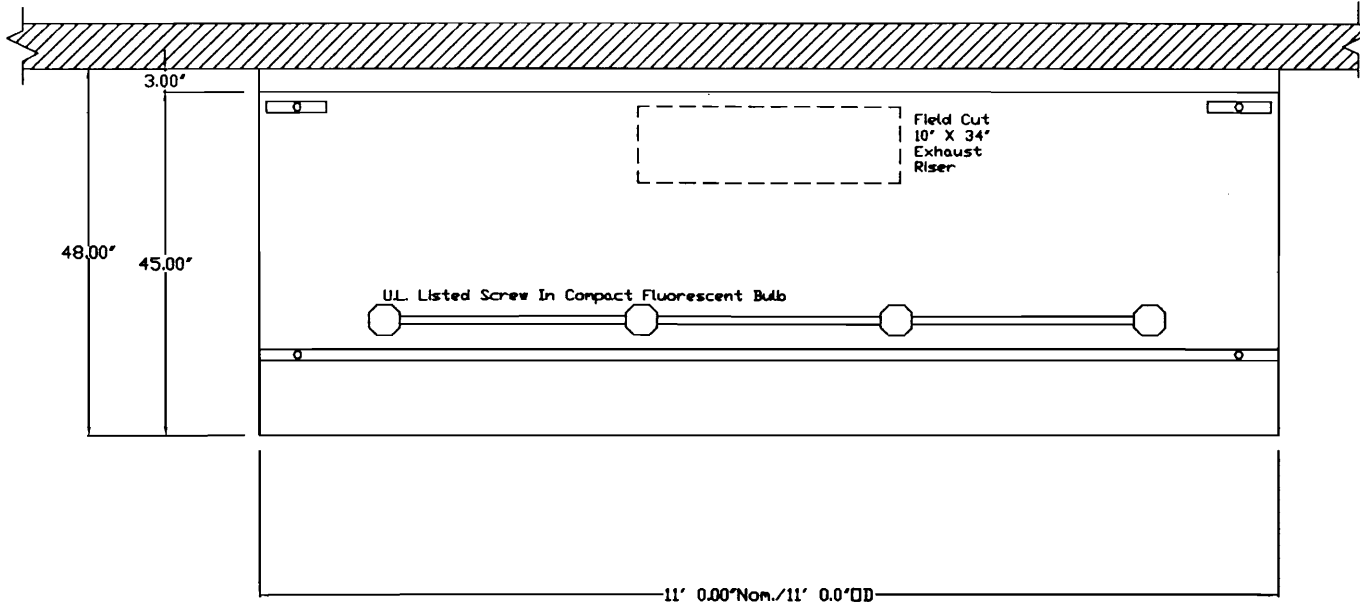
Revise and Resubmit

SIGNATURE *[Signature]*

Your Title _____ Date _____

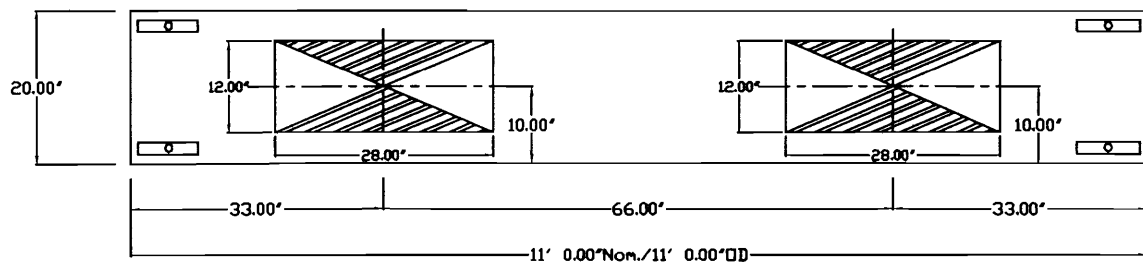
CAPTIVE AIR

JOB O'Brien (11')	
LOCATION	
DATE 12/4/2009	JOB # 1049354
DWG # O'Brien(11')	DRAWN BY BFC
REV. 1.00	SCALE 8.5" x 11"



PLAN VIEW - Hood #1

11' 0.00" LONG 458SNDg



PLAN VIEW - Hood #2

11' 0.00" LONG 206MISC-PSP

NOTE: SUPPLY PLENUM AND HOOD ARE HUNG SEPERATELY

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE *Don't know*

Your Title _____ Date _____



JOB O'Brien (11')	
LOCATION	
DATE 12/4/2009	JOB # 1049354
DWG # O'Brien(11')	DRAWN BY BFC
REV. 1.00	SCALE 8.5' x 11'

HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM					SUPPLY PLENUM					HOOD CONSTRUCTION	HOOD CONFIG.		
				TOTAL EXH. CFM	RISER(S)			S.P.	TOTAL SUP. CFM	RISER(S)			S.P.		END TO END	ROW	
				WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.			
1	458 SNDa	11' 0.00'	300 Deg.	3575	10'	34'		3575	-0.724'	0						430 SS 100%	ALONE ALONE
2	206 MISC-PSP	11' 0.00'	300 Deg.	0						2681						430 SS 100%	ALONE ALONE
3	4212 VHB-G	3' 6.00'	700 Deg.	700	10'	11'		700	-0.093'	0						304 SS 100%	ALONE ALONE

HOOD INFORMATION

HOOD NO.	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)						FIRE SYSTEM PIPING	HOOD WEIGHT	
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	FIRE SYSTEM		ELECTRICAL	SWITCHES				
									TYPE	SIZE	MODEL #	QUANTITY	LOCATION			
1	Alum Baffle w/ Handles	2 5	16' 16'	16' 20'	4	Screw In Compact Fluore	NO								NO	317 LBS
2					0										NO	126 LBS
3					0										NO	100 LBS

HOOD OPTIONS

HOOD NO.	OPTION
1	BACK STANDOFF 3' Wide

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	RISER(S)				
					WIDTH	LENG.	DIA.	CFM	S.P.
2	Front	132'	20'	6'	12'	28'		1340	0.192'
					12'	28'		1340	0.192'

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 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE *[Signature]*
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