

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that VETERANS OF FOREIGN WARS -

Located At 693 FOREST AVE

Job ID: 2012-02-3409-ALTCOMM

CBL: 129-L-010-001

has permission to Install 3 type 1 hood, total 22' and 1 type 2 exhaust for dishwasher with make up air/ roof exhaust 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

[Signature] 3/23/12
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: 2012-02-3409-ALTCOMM	Date Applied: 2/28/2012	CBL: 129-L-010-001	
Location of Construction: 693 FOREST AVE	Owner Name: VETERANS OF FOREIGN WARS	Owner Address: 687 FOREST AVE PORTLAND, ME 04103	Phone: 773-8745
Business Name:	Contractor Name: Dan Bourgoin @ Bourgoin & Sons LLC	Contractor Address: 123 DAVIS RD DURHAM MAINE 04222	Phone: (207) 749-1878
Lessee/Buyer's Name: Hai Pham @ 14 Veranda	Phone:	Permit Type: HOOD SYSTEM	Zone: B-2b
Past Use: Asian Food Market (see previous permit)	Proposed Use: Same: Asian Food Market - to install Kitchen Hood System 3 @ 11', 7' + 4' = 22' total	Cost of Work: \$13,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: M Type: 3 = Type 2 # = Type 2 Hood Signature: JMB
Proposed Project Description: Install kitchen hood system to meet NAPA #96		Pedestrian Activities District (P.A.D.) 3/23/12	
Permit Taken By: Brad		Zoning Approval	

<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>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p>___ Maj ___ Min MM Date: <u>OK S</u> <u>2/29/12</u></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</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 appication 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

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

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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Acting Director of Planning and Urban Development
Gregory Mitchell

Job ID: 2012-02-3409-ALTCOMM

Located At: 693 FOREST AVE

CBL: 129- L-010-001

Conditions of Approval:

Fire

1. Installation shall comply with City Code Chapter 10.
2. A separate Suppression System Permit is required.
3. Hood suppression system shall comply with NFPA 17A, 96, and UL 300. Activation of the suppression system shall activate the fire alarm system if available. A letter of compliance will be required at the time of final inspection stating: the date the system was tested for operation, fuel gas shut off, and fire alarm connection if applicable. The Class K fire extinguisher and proper signage should be located at the suppression system pull station.

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 shall be installed in compliance with the manufacturer's specifications and the UL listing.
3. The hood, duct and exhaust shall be installed per NFPA 96. This permit is approved based on the plans submitted and/or updated for reductions in the clearances based on the application of a UL approved fire wrap or equivalent assembly per code.
4. 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

Entered 2/29/12
B-26 (A)

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.

3 Job ID 2012-02-3109-ALT

Location/Address of Construction: 695 Forest Ave Portland Me.		
Total Square Footage of Proposed Structure		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 129 L01 0001	Owner: Veteran of Foreign Wars 687 Forest Ave e. Portland Me. 04103	Telephone: 773-8745
Lessee/Buyer's Name (If Applicable) Hai Pham 14 VerandAST Portland Me.	Applicant name, address & telephone:	Cost Of Work: \$ 12,300 Fee: \$ 150 C of O Fee: \$
Current legal use (i.e. single family) If vacant, what was the previous use? Hardware Store. Proposed Specific use: Asian Food market. Is property part of a subdivision? _____ If yes, please name _____ Project description: Install Kitchen Hood System to meet NAPA #96		
Contractor's name, address & telephone: Bourgoin + Sons LLC 123 Davis rd Durham Me. 04222 Who should we contact when the permit is ready: Dan Bourgoin Mailing address: _____ Phone: 749-1878 123 Davis rd Durham Me 04222		

RECEIVED
FEB 28 2012
Dept. of Building Inspection
City of Portland

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: Dan Bourgoin Date: 2/27/12

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



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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 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 steel If Other, what Type? _____

Is the duct work Stainless steel or other type of steel? 16ga CRS 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

Box Copy hinge by 3/8 threaded rod into roof truss

Type of seams and Joints solid welded from hood to curb

Grease Gutters provided? N/A

Hood Clearance reduction to Combustibles design /specs:

18" on top of Hood back of hood 3" Air space then 1" wall noncombustible with 1" Air space.

Duct Clearance reduction to Combustibles design /specs:

Zero to combustible To be wrap in 3m grease duct wrap.

Vibration Isolation System:

N/A
Air Velocity within the duct system (.59 sp / 7' 1925 cfm) (.49 sp / 4' 1100 cfm)

Grease accumulation prevention system:

N/A

Cleanouts N/A Straight run 8' or less.

Grease Duct enclosure 3m grease duct wrap zero to combustible

Exhaust Termination Roof X Wall _____

Fire Suppression System Done by other.

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

18" off roof 40" off top of fan.

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 20'

Hood Specs

Style of Hood Box Copy

Type of Filter Grease baffle's

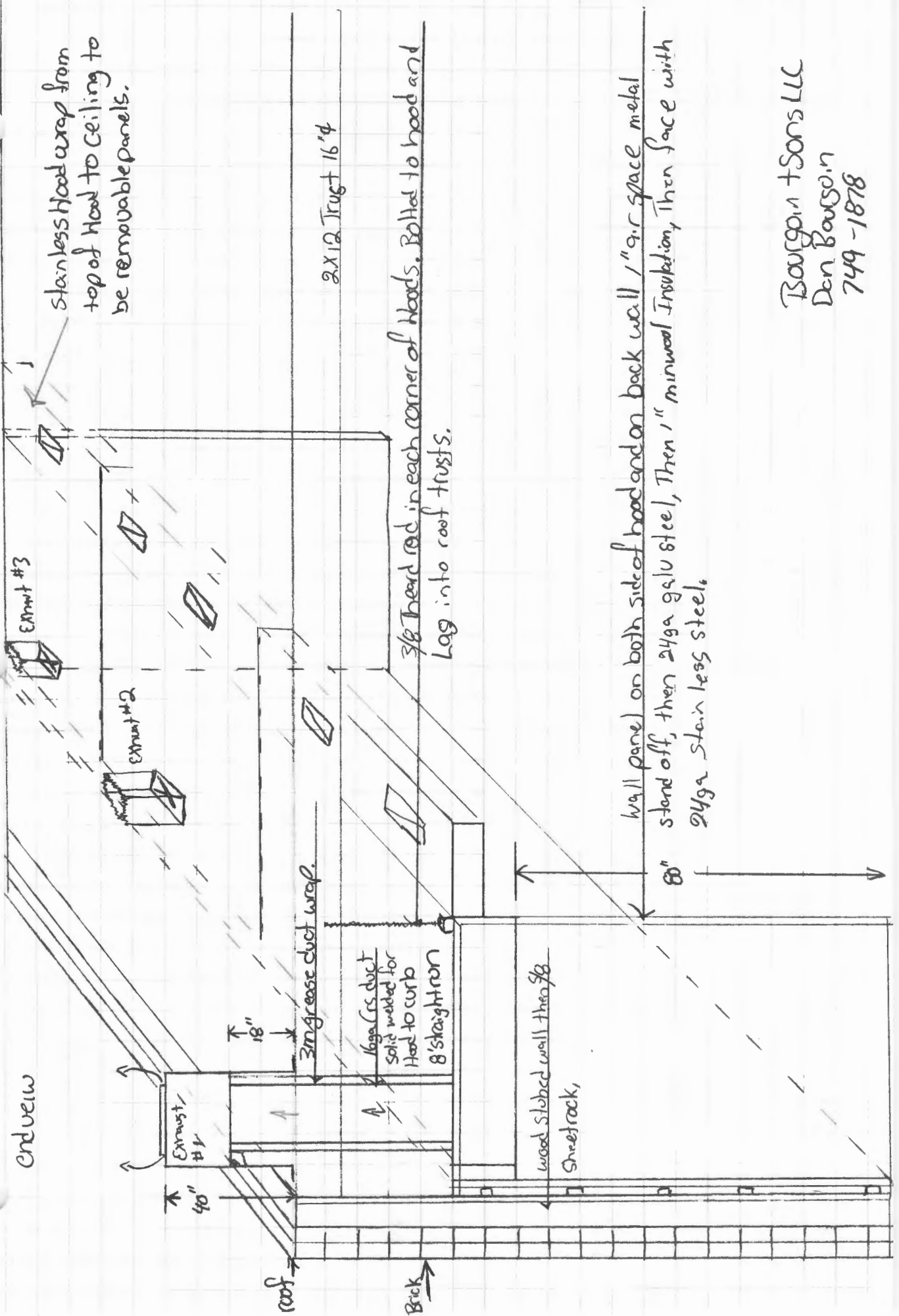
Height of filter above nearest cooking surface 36"

Capacity of hood CFM 3025 cfm, 1925 cfm, 1100 cfm.

Make up Air system description and capacity

Make up air fan to be install on roof and to bring in 2420 cfm, 1540 cfm, 880 cfm. Duct work to be 24ga galv. steel.

end view



Stainless Hood wrap from top of Hood to ceiling to be removable panels.

2x12 Truss 16"4

3/8 Thread rod in each corner of hoods. Bolted to hood and Lag into roof trusses.

wall panel on both side of hood and on back wall 1" g.r. space metal stand off, then 24ga galu steel, Then 1" mineral Insulation, Then face with 24ga Stainless steel.

60"

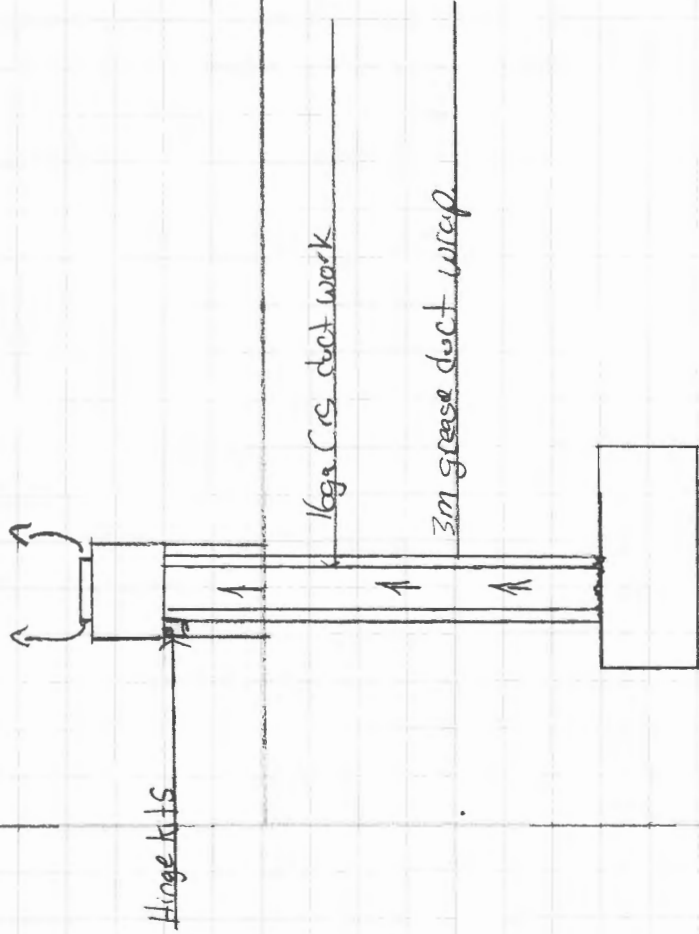
3" grease duct wrap.

16ga CS duct solid welded for Hood to curb 8" straight run

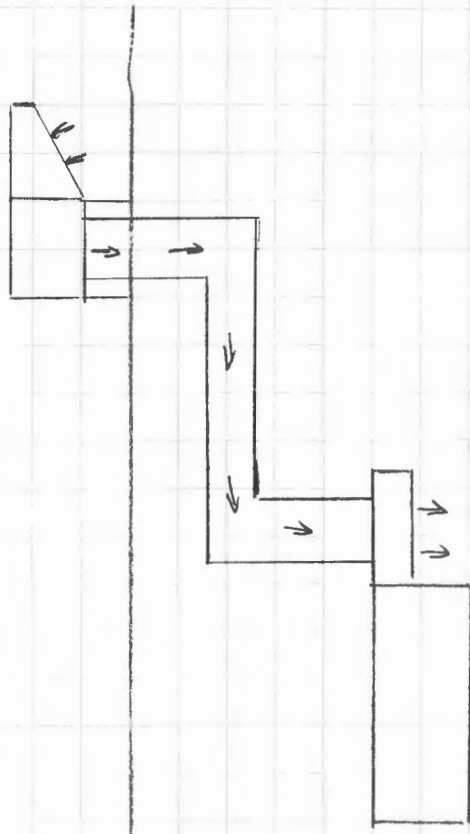
wood slotted wall then 3/8 Sheetrock,

Bourgoin + Sons LLC
Den Bourgoin
749-1878

All three Exhaust fans for grease to be solid welded then wrap in 3m grease duct wrap zero to combustible



Both make up air fans mounted on roof 10' away from Exhaust, Duct work to be 24ga galv steel from fan to make up air box in front of Hood system.



Forest Ave →

roof view

Parking lot.

Exhaust fan grease Hood #3

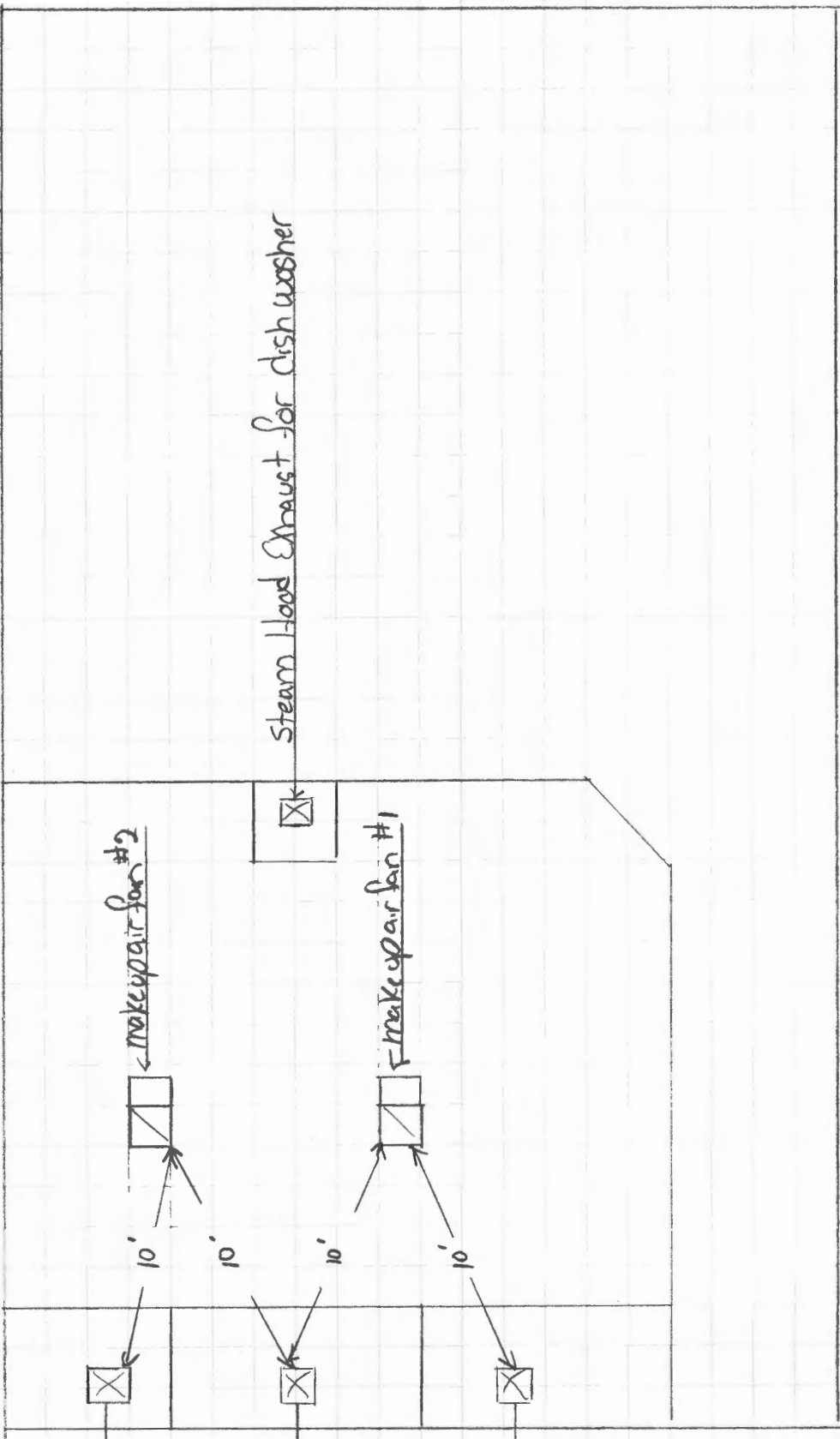
Exhaust fan grease Hood #2

Exhaust fan grease Hood #1

← make up air fan #2

← make up air fan #1

Steam Hood Exhaust for Dishwasher



ROXUL

The Better Insulation

Technical Product Information

BOARD INSULATION 07210

RHT 80

Architectural/OEM

General Product Information:

ROXUL products are mineral wool fibre insulations made from basalt rock and steel slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL mineral wool is a water repellent yet vapour permeable material. It absorbs water only when water is pressed or forced into the material and once the pressure is relieved, the water will evaporate without any loss of integrity to the material's shape or insulating properties.

Description & Common Applications:

The RHT 80 product is a non-combustible, rigid mineral wool insulation board that is water repellent and delivers exceptional life cycle performance and value in a diversity of thermal, acoustic and fire protection applications. RHT 80's excellent moisture resistance, non-combustibility and dimensional stability make it the ideal choice for curtain wall applications. The product can be specified with confidence in a variety of building envelope designs, parking garages, acoustic and OEM applications.

All ROXUL products are certified to carry the Environmental Choice logo.



Compliance and Performance

ASTM C 612 CAN/CGSB 51.10-92 A Approval	Mineral Fiber Block and Board Thermal Insulation Mineral Fibre Board Thermal Insulation New York City Approval	Type IV, Complies Type 1, Class 4 332-97-M
Fire Performance ASTM E 136 CAN4 S114 UL 723 (ASTM E 84) CAN/ULC S102	Behaviour of Materials @ 50°C (1382°F) Test for Non-Combustibility Surface Burning Characteristics Surface Burning Characteristics	Non-Combustible Non-Combustible Flame Spread = 0 Smoke Developed = 0 Flame Spread = 0 Smoke Developed = 0
Maximum Service Temperature ASTM C 411	Hot Surface Performance	No Reaction @ 1200°F (650°C)
Dimensional Stability ASTM C 356	Linear Shrinkage	1.24% @ 1200°F (650°C)
Moisture Resistance ASTM C 1104	Moisture Sorption	0.04%
Corrosion Resistance ASTM C 665 ASTM C 795 ASTM C 871	Corrosiveness to Steel For use with Austenitic Stainless Steel Chemical Analysis	Passed No Reaction Passed
Thermal Resistance ASTM C 518 (C 177)	R-value @ 75°F (24°C) k-value @ 75°F (24°C)	4.2/inch 0.24 Btu.in/k².hr.°F

Supersedes: 11 January 1999
Revised: 23 April 1999

1. Product Description

3M™ Fire Barrier Duct Wrap 15A is a fire resistant wrap consisting of a patented inorganic blanket encapsulated with a scrim-reinforced foil. It is used to fire rate commercial kitchen grease ducts and is a proven alternative to 1 or 2 hour fire resistant rated shaft enclosures. This non-asbestos wrap contains a safer fiber construction* and installs easily because of its high flexibility and strength. 3M Fire Barrier Duct Wrap 15A is the thinnest standard, single layer fire resistant wrap that has passed the UL1978 test which simulates a grease duct fire. With its excellent insulating capabilities, it is an ideal choice for tight spaces because it protects combustible constructions at zero clearance to the overlap or collar. 3M Fire Barrier 1000 N/S, 1003 S/L and 2000+ Silicone Sealants used in combination 3M Fire Barrier Duct Wrap 15A provide an effective firestop when the duct penetrates fire rated walls and floors.

Features

- Thinnest, standard one layer wrap for grease ducts rated as a shaft alternative per UL 1978
- Zero clearance to the overlap or collar for congested spaces
- High flexibility for installation ease
- Foil encapsulated with unique center overlap seam for blanket protection, less dust, and high wrap strength
- Safer fiber construction*

*Has been demonstrated to be soluble in the lungs according to EU guidelines 67/548/EWG, Note Q for bio persistence.

2. Applications

3M Fire Barrier Duct Wrap 15A is an ideal fire resistive enclosure for commercial kitchen grease ducts. It is a proven performance alternative to a 1 or 2 hour fire resistant rated shaft enclosures and provides zero clearance to combustible construction at overlap or collar. 3M Fire Barrier 1000 N/S, 1003 S/L or 2000+ Silicone Sealant is used in combination with 3M Fire Barrier Duct Wrap 15A to firestop the duct when the duct penetrates fire rated floors and walls.

3. Availability

Product	Unit	Size	Units/ctn.	Wt./ctn.
3M Fire Barrier Duct Wrap 15A	Roll	1.5 in. x 24 in. x 20 ft. (38mm x 60.9cm x 609 cm)	1	53 lbs. 24 kg
3M Fire Barrier Duct Wrap 15A	Roll	1.5 in. x 48 in. x 20 ft. (38mm x 121 cm x 609 cm)	1	106 lbs. 48 kg

4. Typical Physical Properties

Blanket Color: gray/green
Weight: 1.38 lbs./sq. ft. (6.73 kg/sq. m)

5. Performance

3M Fire Barrier Duct Wrap 15A has been tested in accordance with the following:

- ASTM C 411
- ASTM C 51
- ASTM E 84
- ASTM E 119
- ASTM E 136
- ASTM E 814
- UL 1978 (Sections 12 & 13)

Surface Burning Characteristics (ASTM E 84)

Foil Encapsulated Blanket:

- Flame Spread: 0
- Smoke Developed: 0

Blanket:

- Flame Spread: 0
- Smoke Developed: 0

Thermal Conductivity

Temperature °F (°C)	btu·in./(hr·ft²·F)
500 (260)	0.417
1000 (537)	0.922
1500 (815)	1.69
1800 (982)	2.27

For technical data and properties of 3M Fire Barrier 1000 N/S, 1003 S/L and 2000+ Silicone Sealants see separate product data sheets available from your 3M representative

Grease Duct Listings

Fire Resistive Rating	Enclosure System	Omega Point Lab. Design Nos.	
		Duct System	Through-Penetration System
1 or 2 hours	1 layer of 3M Fire Barrier Duct Wrap 15A, 3 in. (76 mm) perimeter and longitudinal overlaps	GD 532 F GD 538 F	FS 557 W FS 558 F FS 559 W FS 560 F FS 561 F FS 562 W FS 563 W FS 578 F FS 579 W

Code Compliance

3M Fire Barrier Duct Wrap 15A complies with requirements of the following codes:

- NFPA 96, 1998 Edition
- Standard Mechanical Code
- International Mechanical Code
- Standard Building Code
- SBCCI Compliance Report 2132

This is only a partial list of code compliance. For the latest code and approval information go to www.3m.com/firestop or speak to your authorized 3M distributor or sales representative at (800) 328-1687.

HOOD INFORMATION

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM (RISERS)					SUPPLY PLENUM (RISERS)					HOOD CONFIG.			
					TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUP. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	HOOD CONSTRUCTION	END TO END
1	22' Left	5424 ND-2-PSP-F	11' 0.00"	600 Deg.	3025	10"	29"		3025	-0.399"	2420					430 SS Where Exposed	LEFT	ALONE
2	22' Middle	5424 ND-2-PSP-F	7' 0.00"	600 Deg.	1925	10"	18"		1925	-0.496"	1540					430 SS Where Exposed	MIDDLE	ALONE
3	22' Right	5424 ND-2-PSP-F	4' 0.00"	600 Deg.	1100	10"	10"		1100	-0.453"	880					430 SS Where Exposed	RIGHT	ALONE
4	Dish	4224 VHB-G	3' 6.00"	700 Deg.	700			12"	700	-0.090"	0					304 SS 100%	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT		
	TYPE	QTY.	HEIGHT	LENGTH	QTY.	TYPE	WIRE GUARD	LOCATION	TYPE	SIZE	ELECTRICAL MODEL #			SWITCHES QUANTITY	LOCATION
1	SS Baffle with Handles	2	16"	16"	4	Screw In Compact Fluore	NO							NO	542 LBS
		5	16"	20"											
2	SS Baffle with Handles	4	16"	16"	2	Screw In Compact Fluore	NO							NO	357 LBS
		1	16"	20"											
3	SS Baffle with Handles	3	16"	16"	0									NO	253 LBS
4					0									NO	137 LBS

HOOD OPTIONS

HOOD NO.	OPTION
1	LEFT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS

PERFORATED SUPPLY PLENUM(S)

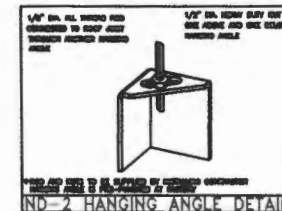
HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISERS				
						WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	132"	18"	6"	MUA	12"	28"		1210	0.452"
						12"	28"		1210	0.452"
2	Front	84"	18"	6"	MUA	8"	26"		770	0.398"
						8"	26"		770	0.398"
3	Front	48"	18"	6"	MUA	12"	20"		880	0.398"

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH





Intertek NSF #96
NSF STANDARDS
UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

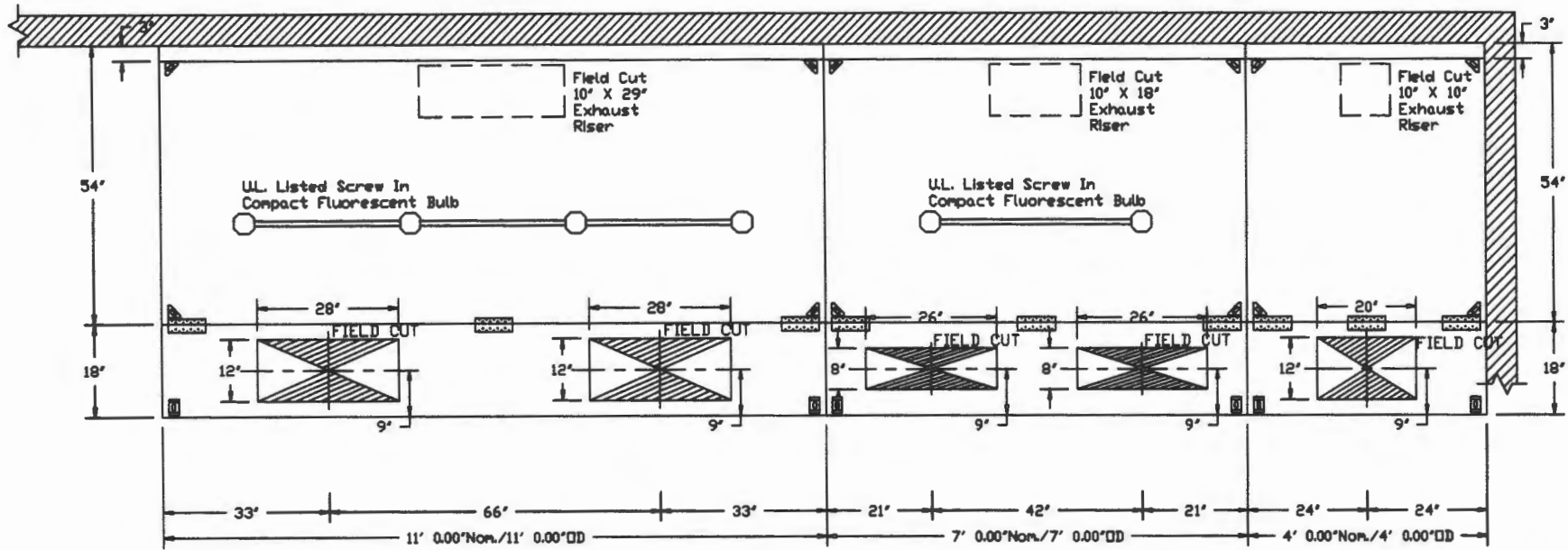
Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____



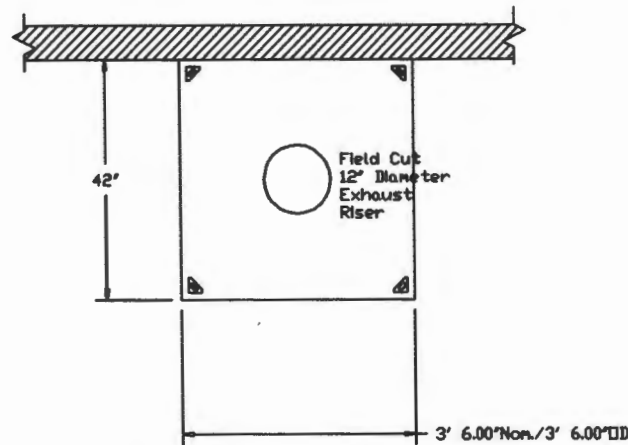
JOB	Veranda Market (unheated) r
LOCATION	SCARBOROUGH, ME
DATE	2/23/2012
DWG #	1
REV.	
JOB #	1500015
DRAWN BY	BFC-21
SCALE	3/8" = 1'-0"



PLAN VIEW - Hood #1 (22' Left)
11' 0.00" LONG 5424ND-2-PSP-F

PLAN VIEW - Hood #2 (22' Middle)
7' 0.00" LONG 5424ND-2-PSP-F

PLAN VIEW - Hood #3 (22' Right)
4' 0.00" LONG 5424ND-2-PSP-F



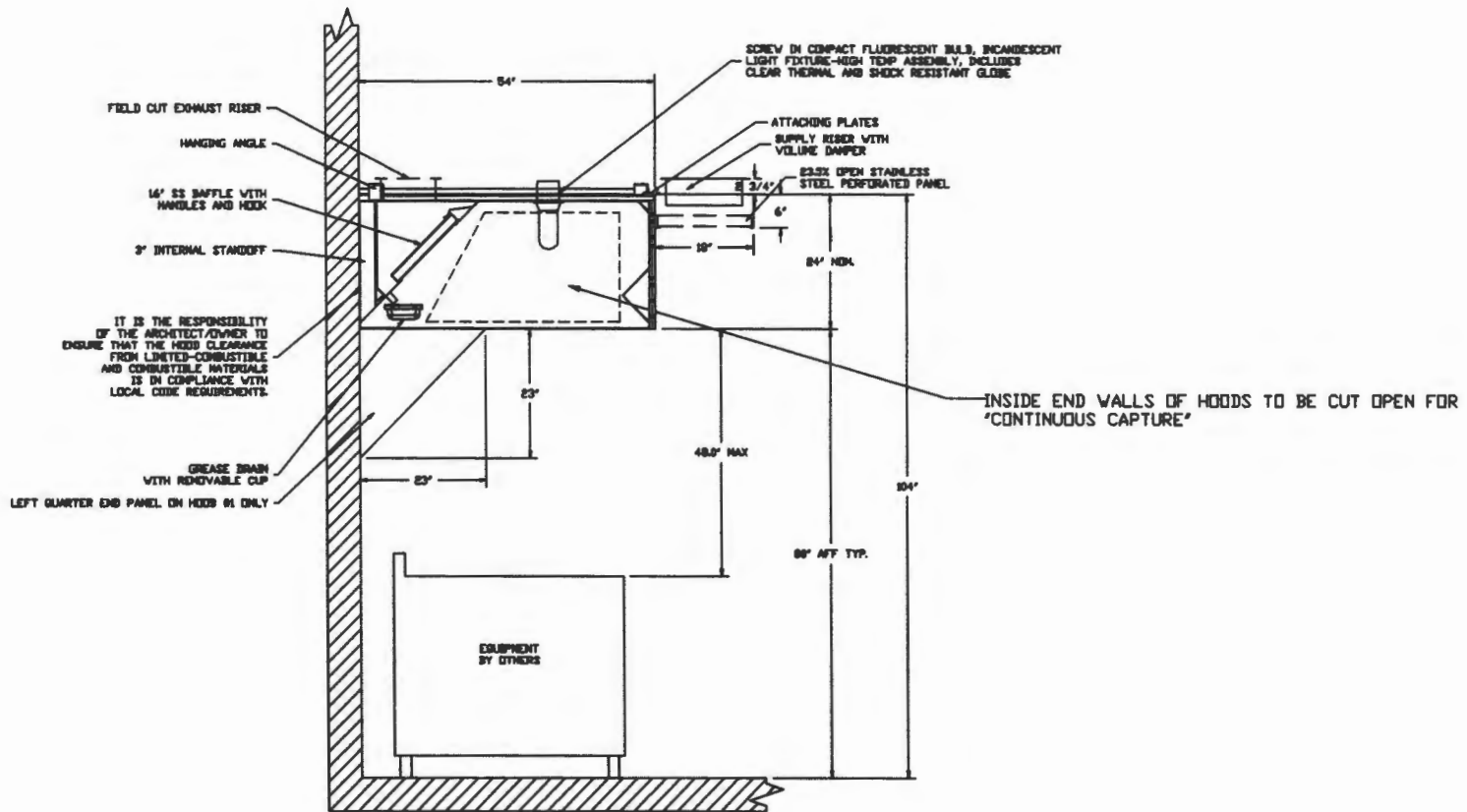
PLAN VIEW - Hood #4 (Dish)
3' 6.00" LONG 4224VHB-G

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE _____
 Your Title _____ Date _____

CAPTIVE AIRE

JOB	Veranda Market (unheated) r.c.
LOCATION	SCARBOROUGH, ME
DATE	2/23/2012
DWG #	2
REV.	
JOB #	1500015
DRAWN BY	BFC-21
SCALE	3/8" = 1'-0"



SECTION VIEW - MODEL 5424ND-2-PSP-F

HOODS #1 & #2

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

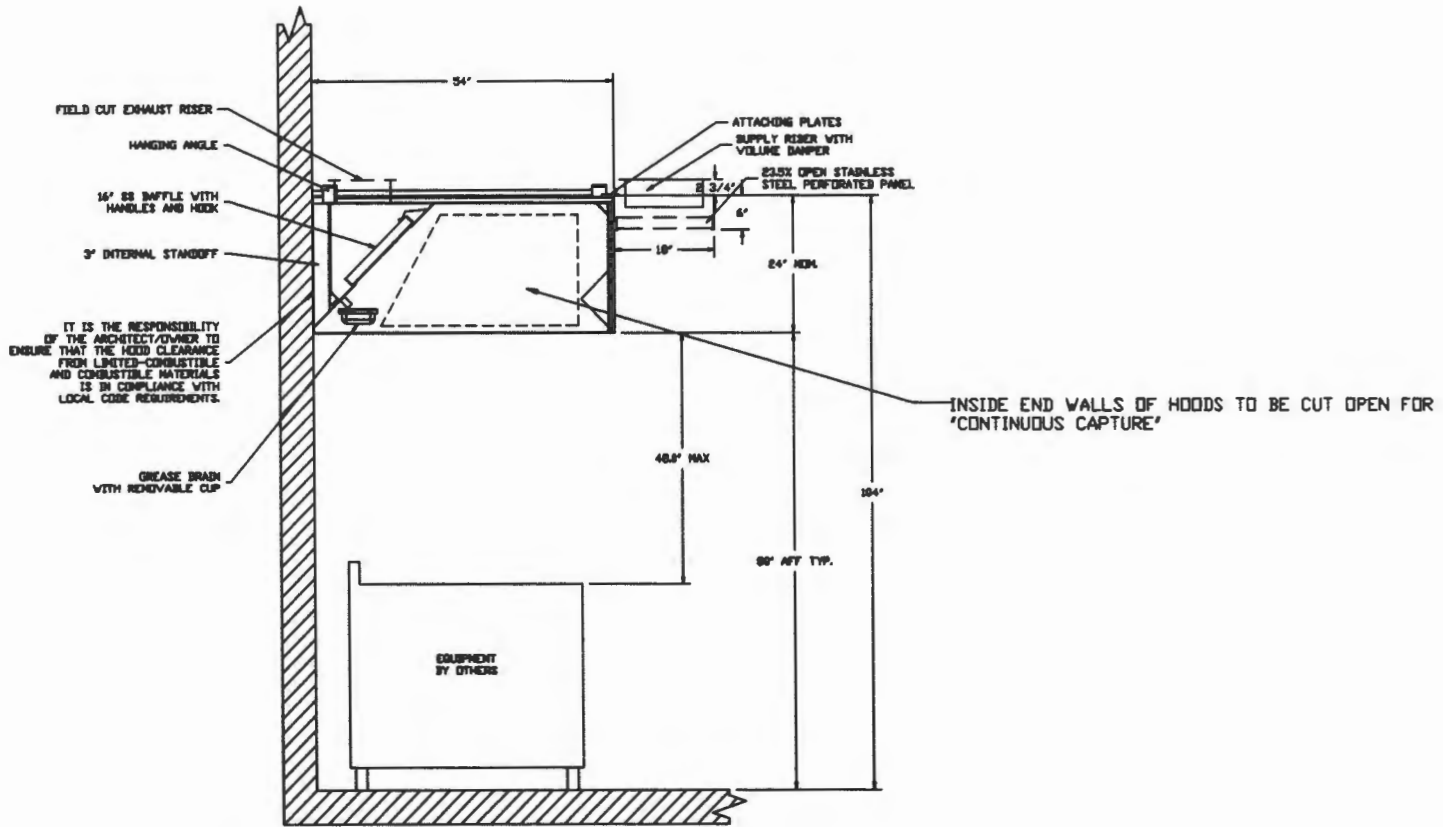
Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

CAPTIVE-AIRE

JOB	Veranda Market (unheated) r	
LOCATION	SCARBOROUGH, ME	
DATE	2/23/2012	JOB # 1500015
DWG #	3	DRAWN BY BFC-21
REV.		SCALE 3/8" = 1'-0"



SECTION VIEW - MODEL 5424ND-2-PSP-F

HOOD #3

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

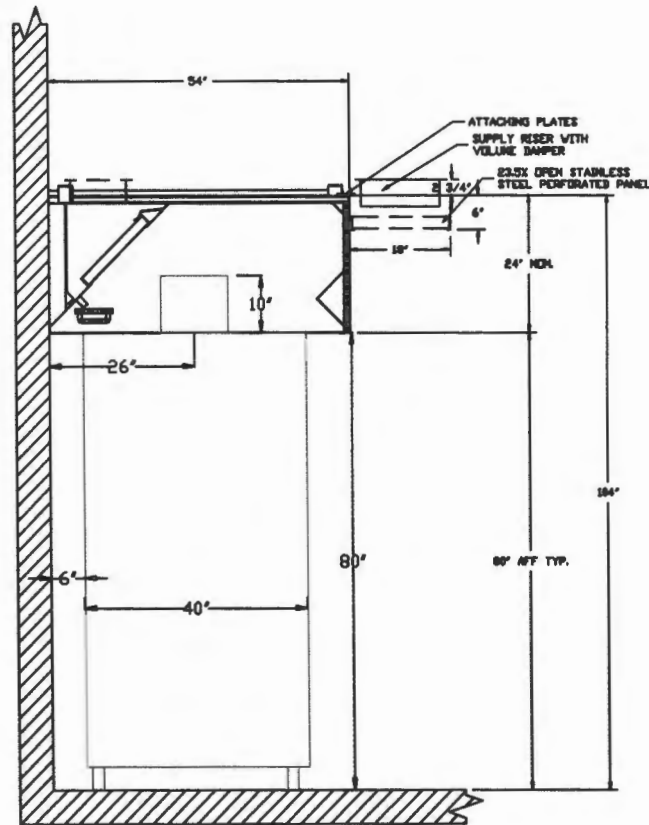
Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

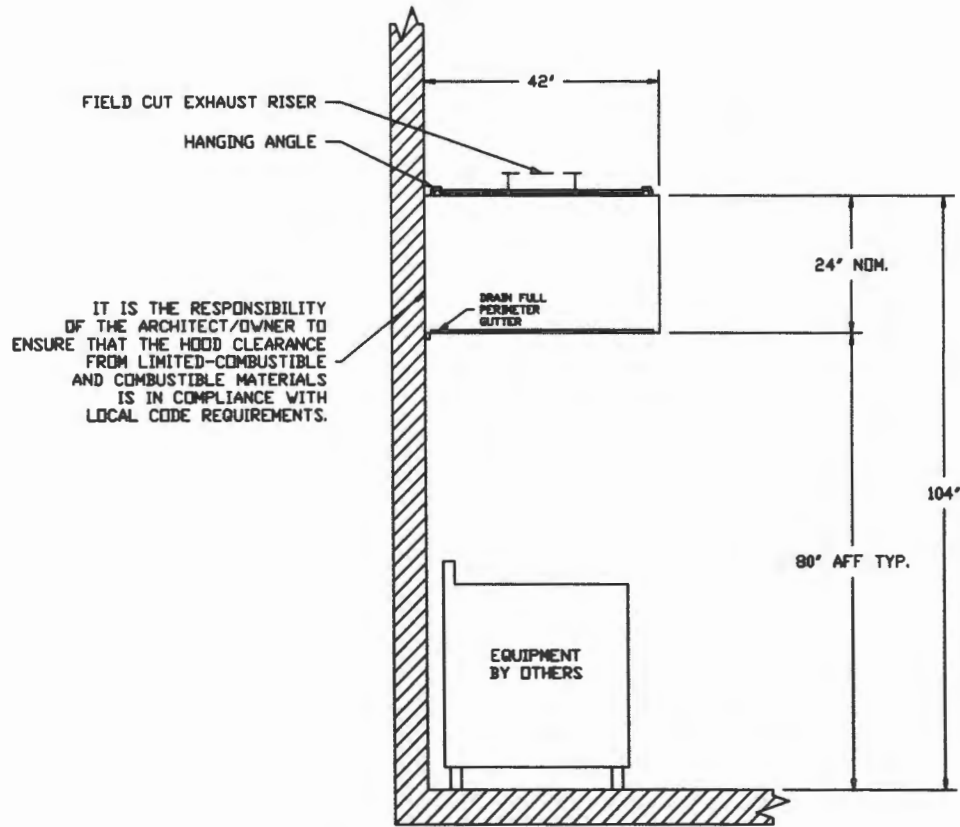
CAPTIVE AIRE	JOB Veranda Market (unheated) r.c.	
	LOCATION SCARBOROUGH, ME	
	DATE 2/23/2012	JOB # 1500015
	DWG # 4	DRAWN BY BFC-21
	REV.	SCALE 3/8" = 1'-0"



SECTION VIEW - ESTIMATED APPLIANCE FIT UNDER HOOD #3

CUSTOMER APPROVAL TO MANUFACTURE:	
Approved as Noted	<input type="checkbox"/>
Approved with NO Exception Taken	<input type="checkbox"/>
Revise and Resubmit	<input type="checkbox"/>
SIGNATURE _____	
Your Title _____	Date _____

CAPTIVE AIRE	JOB Veranda Market (unheated) r5	
	LOCATION SCARBOROUGH, ME	
	DATE 2/23/2012	JOB # 1500015
	DWG # 5	DRAWN BY BFC-21
	REV.	SCALE 3/8" = 1'-0"



SECTION VIEW - MODEL 4224VHB-G

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit
 SIGNATURE _____
 Your Title _____ Date _____

CAPTIVE AIRE

JOB Veranda Market (unheated) r5	
LOCATION SCARBOROUGH, ME	
DATE 2/23/2012	JOB # 1500015
DWG # 6	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	ESP.	RPM	H.P.	#	VOLT	FLA	WEIGHT (LBS.)
1	NCA16FA	NCA16FA		3025	0.650	986	1.000	1	115	14.0	154.91
2	NCA14FA	NCA14FA		1925	0.750	1100	1.000	1	115	14.0	137.64
3	NCA10FA	NCA10FA		1100	0.650	1095	0.500	1	115	8.0	111.23
4	DJ304FA	DJ304FA		700	0.250	1131	0.250	1	115	4.0	66.06

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	ESP.	RPM	H.P.	#	VOLT	FLA	WEIGHT (LBS.)
5	NSAU2-G12	G12	NSAU2		2420	0.650	725	1.000	1	115	14.0	278.62
6	NSAU2-G12	G12	NSAU2		2420	0.650	725	1.000	1	115	14.0	278.62

FAN OPTIONS

FAN UNIT NO.	OPTION Qty. - Descr
1	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts
	1 - Hinge Kit - Ships Loose for Curb Supplied by Others
2	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts
	1 - Hinge Kit - Ships Loose for Curb Supplied by Others
3	1 - Grease Box
	1 - Fan Base Ceramic Seal - For Grease Ducts
	1 - Hinge Kit - Ships Loose for Curb Supplied by Others
4	1 - Fan Base Ceramic Seal - For Grease Ducts
	1 - 1 1/2" BBD Damper
	1 - Hinge Kit - Ships Loose for Curb Supplied by Others
5	1 - Gravity Backdraft Damper for Size 2 Housing
6	1 - Gravity Backdraft Damper for Size 2 Housing

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

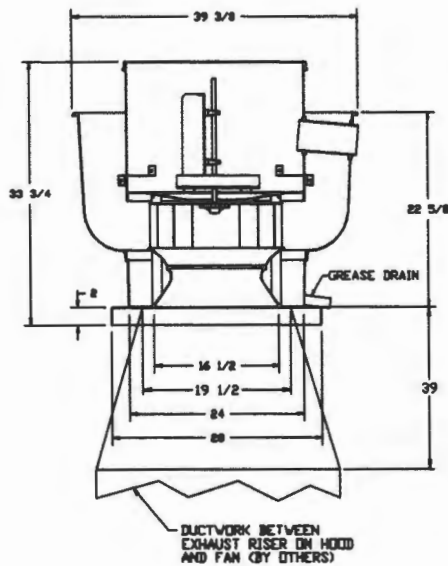
SIGNATURE _____

Your Title _____ Date _____



JOB	Veranda Market (unheated) r	
LOCATION	SCARBOROUGH, ME	
DATE	2/23/2012	JOB # 1500015
DWG #	7	DRAWN BY BFC-21
REV.		SCALE 3/8" = 1'-0"

FAN #1 NCA16FA - EXHAUST FAN



FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- ANCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

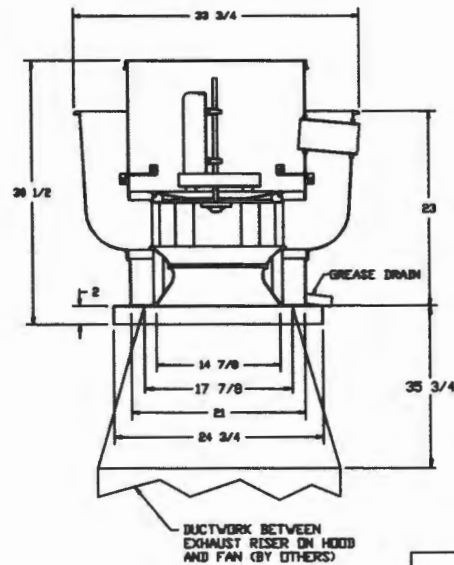
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS

FAN #2 NCA14FA - EXHAUST FAN



FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- ANCA 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
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS

CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

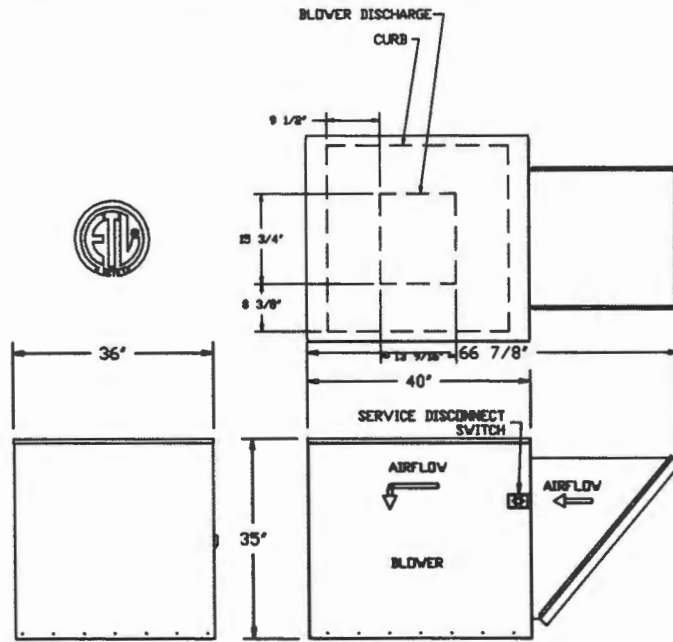
SIGNATURE _____

Your Title _____ Date _____

CAPTIVE-AIRE

JOB	Veranda Market (unheated) r
LOCATION	SCARBOROUGH, ME
DATE	2/23/2012
DWG #	8
REV.	
JOB #	1500015
DRAWN BY	BFC-21
SCALE	3/8" = 1'-0"

- FAN #5 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)



CUSTOMER APPROVAL TO MANUFACTURE:

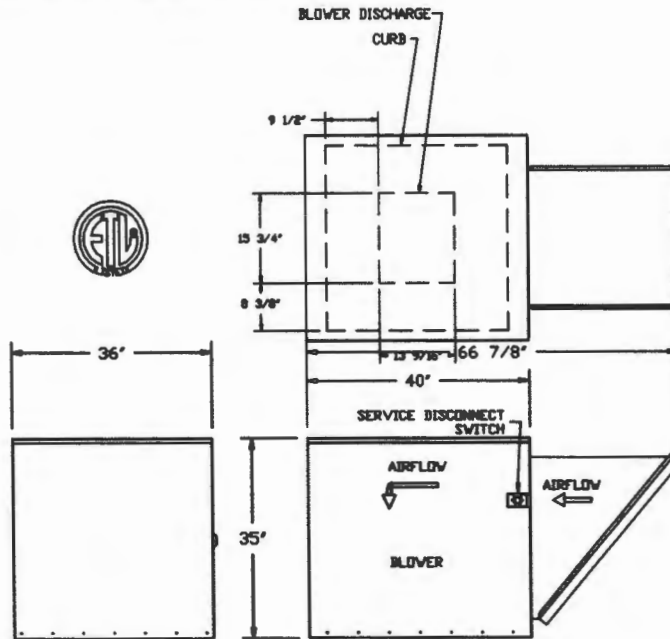
- Approved as Noted
 Approved with NO Exception Taken
 Revise and Resubmit

SIGNATURE _____
 Your Title _____ Date _____

CAPTIVEAIRE

JOB	Veranda Market (unheated) r.5
LOCATION	SCARBOROUGH, ME
DATE	2/23/2012
JOB #	1300015
DWG #	10
DRAWN BY	BFC-21
REV.	SCALE 3/8" = 1'-0"

- FAN #6 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)



CUSTOMER APPROVAL TO MANUFACTURE:

Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

SIGNATURE _____

Your Title _____ Date _____

CAPTIVE AIRE

JOB Veranda Market (unheated) r5	
LOCATION SCARBOROUGH, ME	
DATE 2/23/2012	JOB # 1500015
DWG # 11	DRAWN BY BFC-21
REV.	SCALE 3/8" = 1'-0"

Exhaust Fan Wiring

JOB NAME Veranda Market (unheated) r5 option

DATE 2/23/2012

DRAWING NUMBER EXH1500015-1

JOB NUMBER 1500015

MODEL NCA16FA

Installed Options

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23



Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]

SV-01	Main disconnect switch	[2]
-------	------------------------	-----

MOTOR INFO
EXHAUST 1HP-115V-IP-14.0FLA

ELECTRICAL INFORMATION
MOTOR/CONTROL ICA: 17.5A
MOTOR/CONTROL MOP: 30A

NOTES

----- DENOTES FIELD WIRING
————— DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK	YV - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	

Exhaust Fan Wiring

JOB NAME *Veranda Market (unheated) r5 optior*

DATE 2/23/2012

DRAWING NUMBER EXH1500015-2

JOB NUMBER 1500015

MODEL NCA14FA

Installed Options

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23



Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]
SW-01	Main disconnect switch	[2]

MOTOR INFO

EXHAUST 1HP-115V-IP-14.0FLA

ELECTRICAL INFORMATION

MOTOR/CONTROL PCA: 17.5A
MOTOR/CONTROL MOP: 30A

NOTES

----- DENOTES FIELD WIRING
————— DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK YV - YELLOW
BL - BLUE GR - GREEN
BR - BROWN GY - GRAY
OR - ORANGE PR - PURPLE
RD - RED PK - PINK
VH - WHITE

Exhaust Fan Wiring

JOB NAME *Veranda Market (unheated) r5 option*

DATE 2/23/2012

DRAWING NUMBER EXH1500015-3

JOB NUMBER 1500015

MODEL NCA10PA

Installed Options

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23



Component Identification		
Label	Description	Location
MT-01	Fan Motor	[2]
SW-01	Main disconnect switch	[2]

MOTOR INFO	
EXHAUST	0.5HP-115V-1P-8.0FLA

ELECTRICAL INFORMATION
 MOTOR/CONTROL ICA: 10.0A
 MOTOR/CONTROL MCP: 15A

NOTES
 ----- DENOTES FIELD WIRING
 _____ DENOTES INTERNAL WIRING

WIRE COLOR	
BK - BLACK	YV - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
VH - WHITE	

Exhaust Fan Wiring

JOB NAME *Veranda Market (unheated) r5 option*

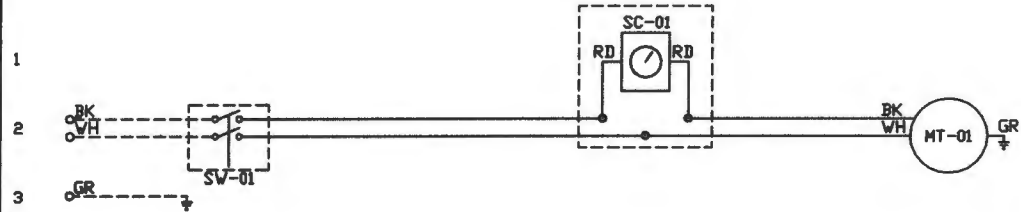
DATE 2/23/2012

DRAWING NUMBER EXH1500015-4

JOB NUMBER 1500015

MODEL DUS0HFA

Installed Options
Speed Control



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

Component Identification

Label	Description	Location
MT-01	Fan Motor	[2]
QD-01	Quick Disconnect	[2]
SC-01	Speed Control	[1]
SW-01	Main disconnect switch	[2]

MOTOR INFO
EXHAUST 0.25HP-115V-1P-4.0FLA

ELECTRICAL INFORMATION
MOTOR/CONTROL PCA: 50A
MOTOR/CONTROL COP: 15A

NOTES
----- DENOTES FIELD WIRING
————— DENOTES INTERNAL WIRING

WIRE COLOR
BK - BLACK YV - YELLOW
BL - BLUE GR - GREEN
BR - BROWN GY - GRAY
OR - ORANGE PR - PURPLE
RD - RED PK - PINK
WH - WHITE

AirHandler Wiring

JOB NAME *Veranda Market (unheated) r5 optior*

DATE 2/23/2012

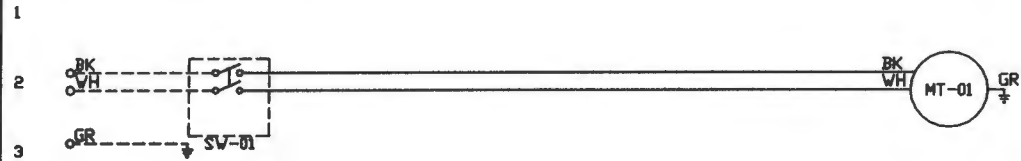
DRAWING NUMBER A1500015-5

JOB NUMBER 1500015

MODEL NSAU2-G12

ATTENTION ELECTRICIAN
 DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED
 CONNECT POWER TO THE DROP

Installed Options



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23

Component Identification

Label	Description	Location
MT-01	Supply motor	(2)
SW-01	Main disconnect switch	(2)

MOTOR INFO
 SUPPLY 1HP-115V-1P-14.0FLA

ELECTRICAL INFORMATION
 MOTOR/CONTROL CIRCUIT MCA: 18.6A
 MOTOR/CONTROL CIRCUIT MOP: 30A

NOTES
 ----- DENOTES FIELD WIRING
 _____ DENOTES INTERNAL WIRING

WIRE COLOR
 BK - BLACK YV - YELLOW
 BL - BLUE GR - GREEN
 BR - BROWN GY - GRAY
 OR - ORANGE PR - PURPLE
 RD - RED PK - PINK
 WH - WHITE

AirHandler Wiring

JOB NAME *Veranda Market (unheated) r5 option*

DATE *2/23/2012*

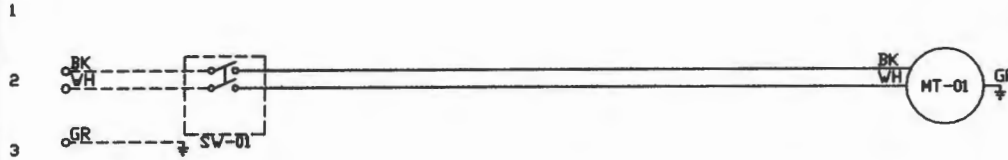
DRAWING NUMBER *A1500015-6*

JOB NUMBER *1500015*

MODEL *NSAU2-G12*

ATTENTION ELECTRICIAN
 DROP FOR DISCONNECT CONNECTION IS FACTORY SUPPLIED
 CONNECT POWER TO THE DROP

Installed Options



Component Identification

Label	Description	Location
MT-01	Supply motor	[2]
SV-01	Main disconnect switch	[2]

MOTOR INFO
 SUPPLY IHP-115V-IP-14.0FLA

ELECTRICAL INFORMATION
 MOTOR/CONTROL CIRCUIT MCA: 18.6A
 MOTOR/CONTROL CIRCUIT MOP: 30A

NOTES
 ----- DENOTES FIELD WIRING
 _____ DENOTES INTERNAL WIRING

WIRE COLOR
 BK - BLACK YV - YELLOW
 BL - BLUE GR - GREEN
 BR - BROWN GY - GRAY
 OR - ORANGE PR - PURPLE
 RD - RED PK - PINK
 WH - WHITE



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

2/28 20 12

Received from Don

Location of Work 695 Forest

Cost of Construction \$ _____ Building Fee: 13000
12,300

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 150

Building (IL) ___ Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: 129 4001

Check #: 1850 Total Collected \$ 150

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: (BS)

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy