

	NEW SHEET METAL DUCTWORK		FD	FIRE DAMPER
	SUPPLY OR OUTSIDE AIR DUCT		FOB	FLAT ON BOTTOM
	RETURN AIR DUCT		FOT	FLAT ON TOP
	EXHAUST AIR DUCT		FSD	COMBINATION FIRE/SMOKE DAMPER
	DUCTWORK TRANSITION RECTANGULAR TO ROUND		GPM	GALLONS PER MINUTE
	INCLINED RISE IN DUCTWORK		HZ	FREQUENCY
	INCLINED DROP IN DUCTWORK		LAT	LEAVING AIR TEMPERATURE
	SUPPLY DUCT ELBOW UP OR DOWN		MA	MIXED AIR
	RETURN DUCT ELBOW UP OR DOWN		MD	MANUAL DAMPER
	EXHAUST DUCT ELBOW UP OR DOWN		NC	NOISE CRITERIA
	DUCT ELBOW WITH FIXED TURNING VANES		NC	FURNISHED AND INSTALLED BY OWNER
	SPLITTER DAMPER		OA	OUTSIDE AIR
	DUCT BRANCH TAKE-OFF		PD	PRESSURE DROP
	ROUND SPIN-IN WITH DAMPER		PSI	POUNDS PER SQUARE INCH
	SQUARE TO ROUND TAP WITH DAMPER		RA	RETURN AIR
	FLEXIBLE DUCT CONNECTION		RF	RELIEF AIR
	BACKDRAFT DAMPER		RTU	ROOFTOP UNIT
	VOLUME DAMPER		SA	SUPPLY AIR
	FLEXIBLE DUCTWORK		SD	SMOKE DAMPER
	SUPPLY DIFFUSER		TCS	TEMPERATURE CONTROL SYSTEM
	SUPPLY DIFFUSER WITH 3-WAY THROW		AHU	AIR HANDLING UNIT
	SUPPLY DIFFUSER WITH 2-WAY THROW		TSP	TOTAL STATIC PRESSURE
	SUPPLY DIFFUSER WITH 1-WAY THROW		TYP	TYPICAL
	ROUND SUPPLY DIFFUSER		WC	WATER COLUMN
	SIDEWALL MOUNTED SUPPLY REGISTER		WB	WET BULB
	RETURN GRILLE		CFM	DIFFUSER DESIGNATION AND CFM
	EXHAUST GRILLE		CD	DUCT PRESSURE CLASS DESIGNATION
			CFM	CUBIC FEET PER MINUTE
			DB	DRY BULB
			BHP	BRAKE HORSEPOWER
			BTU	BRITISH THERMAL UNIT
			CD	CONTROL DAMPER
			EA	EXHAUST AIR
			EAT	ENTERING AIR TEMPERATURE
			ESP	EXTERNAL STATIC PRESSURE
			EWI	ENTERING WATER TEMPERATURE

NOTE: THIS PROJECT MAY NOT USE EVERY SYMBOL OR DEVICE APPEARING ON THIS LEGEND.

ROOFTOP UNIT SCHEDULE (SEE TRANE PACKAGE PURCHASE INFORMATION THIS SHEET)																				
MARK	MANUFACTURER	MODEL	AIR FLOW (CFM)	OA FLOW (CFM)	AMBIENT OAT (°F)	EXT. S.P. (IN.W.C.)	DX COOLING COIL EAT (°FDB/WB)	TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	GAS HEAT	INPUT (BTU/HR)	OUTPUT (BTU/HR)	VOLTS/Ø/HZ	MCA (AMPS)	MOC (AMPS)	EVAPORATOR BLOWER H.P.	EER	APPROX. WEIGHT (LBS)	AREA SERVED	REMARKS
1	TRANE	YFD21TC3HA	6,125	1,635	95	0.75	80/67	220,170	167,040	NATURAL GAS	350,000	294,000	208/3/60	95.0	110.0	5.0	11.0	2,498	MAIN DINING	
2	TRANE	YFD21TC3HA	6,125	1,635	95	0.75	80/67	220,170	167,040	NATURAL GAS	350,000	294,000	208/3/60	95.0	110.0	5.0	11.0	2,498	BAR/DINING/ENTRY	
3	TRANE	YFD181C3LA	6,000	900	95	0.75	80/67	189,090	142,160	NATURAL GAS	250,000	210,150	208/3/60	81.0	90.0	3.0	11.5	2,415	KITCHEN	

NOTES:  
1) PROVIDE 14" HIGH MIN. ROOF CURB PER DETAIL 11 ON SHEET H3.1  
2) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.  
3) PROVIDE DIFFERENTIAL ENTHALPY TYPE OUTSIDE AIR ECONOMIZER AND INTAKE HOOD.  
4) PROVIDE POWER EXHAUST.  
5) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.  
6) PROVIDE THROUGH THE BASE SINGLE POINT WIRING CONNECTION.  
7) PROVIDE FACTORY MOUNTED WATERPROOF CONVENIENCE GFI OUTLET FIELD WIRED BY ELECTRICAL CONTRACTOR.  
8) PROVIDE FACTORY MOUNTED AND WIRED DUCT SMOKE DETECTOR IN RETURN AIR ONLY.

EXHAUST FAN SCHEDULE														
MARK	MANUFACTURER	MODEL	TYPE	DRIVE TYPE	PERFORMANCE AIR FLOW (CFM)	EXT. STATIC (IN.W.C.)	FAN SPEED (RPM)	VOLTS/Ø/HZ	FAN MOTOR HP	ACCESSORIES	APPROX. WEIGHT (LBS)	SERVES	REMARKS	
1	CAPTIVE-AIRE	HRE-13	CENTRIFUGAL	BELT	1,800	1.00	1,733	208/3/60	1.00	WP, RC	225	GREASE HOOD #1	NOTE 1,2	
2	CAPTIVE-AIRE	NCA18HPFA	CENTRIFUGAL	BELT	3,160	1.25	1,140	208/3/60	1.50	WP, RC	225	GREASE HOOD #2	NOTE 1,2	
3	CAPTIVE-AIRE	NCA14FA	CENTRIFUGAL	BELT	1,400	0.75	984	115/1/60	0.50	WP, RC	140	KETTLE HOOD #3	NOTE 1,2	
4	CAPTIVE-AIRE	DR3SHFA	CENTRIFUGAL	DIRECT	900	0.75	1,150	115/1/60	0.50	BS, BD, WP, RC	50	DISHWASHER HOOD #4	NOTE 1,2	
5	CAPTIVE-AIRE	DR3SHFA	CENTRIFUGAL	DIRECT	600	0.62	1,217	115/1/60	0.25	BS, BD, WP, RC	45	RESTROOMS	NOTE 1,2	

ACCESSORIES:  
AD-MOTORIZED CONTROL DAMPER, BS-BIRD SCREEN, BD-BACKDRAFT DAMPER, DS-DISCONNECT SWITCH, IG-INLET GUARD, MR-WALL MOUNTING RING, RC-PREFABRICATED INSULATED ROOF CURB, SC-PREFABRICATED SOUND ATTENUATING ROOF CURB, WG-WALL GRILLE, WP-NEMA 3R DISCONNECT SWITCH, VC-VENTED CURB WITH HINGED FAN BASE, FDS-FUSED DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR

NOTES:  
1) EXHAUST FANS AND CURBS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR  
2) FURNISH FAN WITH FACTORY INSTALLED UNIT MOUNTED NEMA 3R DISCONNECT.

CONTROL NOTES: A) EF-1, EF-2, EF-3 AND EF-4 SHALL BE CONTROLLED BY SWITCH AT THE CAPTIVE-AIRE HOOD.  
B) EF-5 IS CONTROLLED BY LUTRON LIGHTING SYSTEM.

KITCHEN MAKE-UP AIR UNIT SCHEDULE															
MARK	MANUFACTURER	MODEL	FAN TYPE	DRIVE TYPE	PERFORMANCE AIR FLOW (CFM)	EXTERNAL STATIC (IN.W.C.)	FAN SPEED (RPM)	GAS HEAT FUEL	S/L INPUT (BTU/HR)	VOLTS/Ø/HZ	FAN MOTOR HP	FLA (AMPS)	MOC (AMPS)	APPROX. WEIGHT (LBS)	REMARKS
1	CAPTIVE-AIRE	NHMUA3-18"-G18	CENTRIFUGAL	BELT	5,088	0.50"	658	NATURAL GAS	414,000	208/3/60	3.0	6.8	20.0	650	

NOTES:  
1) MAKE-UP AIR UNIT AND CURB FURNISHED BY OWNER, INSTALLED BY CONTRACTOR  
2) FURNISH UNIT WITH REMOVABLE ACCESS PANELS.  
3) FURNISH UNIT WITH UNIT MOUNTED NEMA 3R DISCONNECT SWITCH.  
4) FURNISH UNIT WITH WEATHER HOOD WITH BIRDSCREEN AT UNIT INLET.  
5) FURNISH UNIT WITH CURB FOR SLOPED ROOF. VERIFY PITCH OF ROOF BEFORE ORDERING.  
6) FURNISH UNIT WITH SINGLE POINT CONNECTION.  
7) FURNISH UNIT WITH 120 VOLT MOTORIZED INTAKE DAMPER. UNIT HAS INTERNAL TRANSFORMER FOR 120V CONTROL CIRCUIT.

KITCHEN EXHAUST HOOD SCHEDULE															
MARK	MANUFACTURER	MODEL	TYPE	DIMENSIONS LENGTH (FT-IN)	WIDTH (FT-IN)	PERFORMANCE EXHAUST AIR FLOW (CFM)	EXHAUST P.D. (IN.W.C.)	NUMBER OF EXHAUST RISERS	RISER CONNECTION SIZE	PERFORMANCE SUPPLY AIR FLOW (CFM)	SUPPLY P.D. (IN.W.C.)	NUMBER OF SUPPLY RISERS	RISER CONNECTION SIZE	FIRE SUPPRESSION	REMARKS
1	CAPTIVE-AIRE	4524ND-PSP-F	1	8'-0"	3'-9"	1,800	0.559	1	13"x10"	1,440	0.099	2	20"x10"	YES	
2	CAPTIVE-AIRE	4524ND-PSP-F	1	16'-0"	3'-9"	3,160	0.431	2	13"x10"	2,528	0.111	3	24"x10"	YES	
3	CAPTIVE-AIRE	4524ND-PSP-F	1	8'-0"	3'-9"	1,400	0.338	1	13"x10"	1,120	0.135	1	28"x10"	YES	
4	CAPTIVE-AIRE	4224VH1-G	2	6'-0"	3'-6"	900	0.573	1	9"x8"	-	-	-	-	NO	

NOTES:  
1) KITCHEN HOODS FURNISHED BY OWNER, INSTALLED BY CONTRACTOR  
2) KITCHEN HOODS ARE U.L. LISTED.

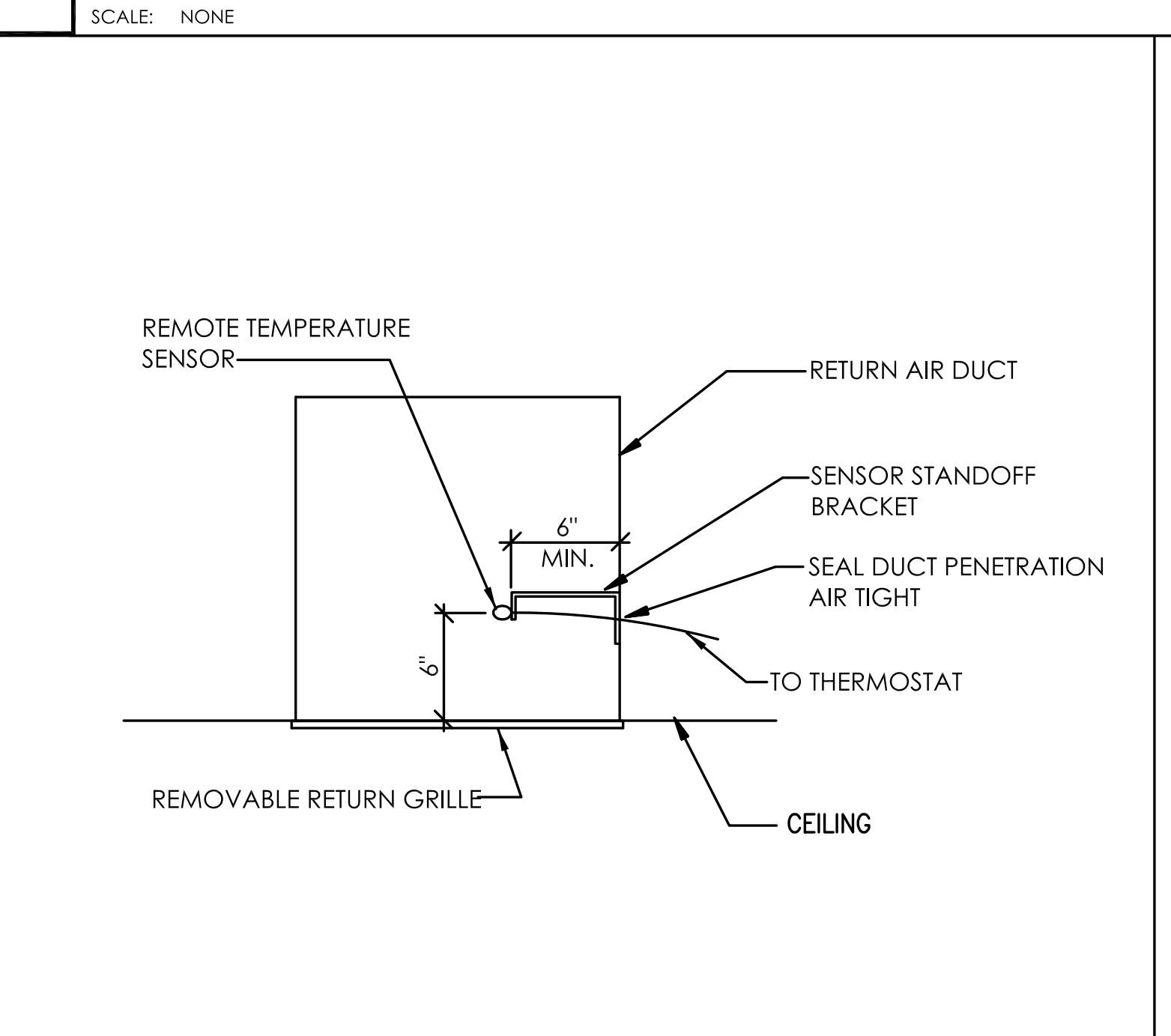
GRILLE, REGISTER AND DIFFUSER SCHEDULE														
MARK	MANUFACTURER	MODEL	TYPE	NECK SIZE (L" x W")	FACE SIZE (L" x W")	FRAME TYPE	FINISH	NC	ACCESSORIES	REMARKS				
A	TITUS	TMS	SQUARE SUPPLY DIFFUSER	PER PLAN	12"x12"	SURFACE	WHITE	<30	OBD	NOTE 1				
B	TITUS	TDCA	SQUARE SUPPLY DIFFUSER	18"x18"	24"x24"	SURFACE	WHITE	<30	STR, OBD	NOTE 1				
C	TITUS	TDCA	SQUARE SUPPLY DIFFUSER	18"x18"	24"x24"	LAY-IN	WHITE	<30	STR					
D	TITUS	TMRA	ROUND SUPPLY DIFFUSER	PER PLAN	NOTE 2	SURFACE	WHITE	<30	OBD	NOTE 1				
E	TITUS	TMRA	ROUND SUPPLY DIFFUSER	PER PLAN	NOTE 2	DUCT MOUNT	WHITE	<30	OBD					
F	TITUS	350ZRL	EXHAUST GRILLE	10"x10"/6"	12"x12"	SURFACE	WHITE	<30	TRM, OBD, STR					
G	TITUS	350ZRL	EXHAUST GRILLE	10"x10"/10"	12"x12"	SURFACE	WHITE	<30	TRM, OBD, STR					
H	TITUS	SOR	EGGCRATE RETURN GRILLE	22"x10"	24"x12"	SURFACE	WHITE	<30	OBD	1/2" X 1/2" X 1" ALUMINUM GRID				
I	TITUS	SOR	EGGCRATE RETURN GRILLE	22"x22"/18"	24"x24"	LAY-IN	WHITE	<30	STR	1/2" X 1/2" X 1" ALUMINUM GRID				
J	TITUS	TDCA	SQUARE SUPPLY DIFFUSER	18"x18"	24"x24"	LAY-IN	WHITE	<30	STR, OBD	NOTE 1				

ACCESSORIES:  
OBD-OPPOSED BLADE DAMPER, LSP-LINEAR SLOT PLENUM, TRM-RAPID MOUNT FRAME, STR-SQUARE TO ROUND ADAPTER

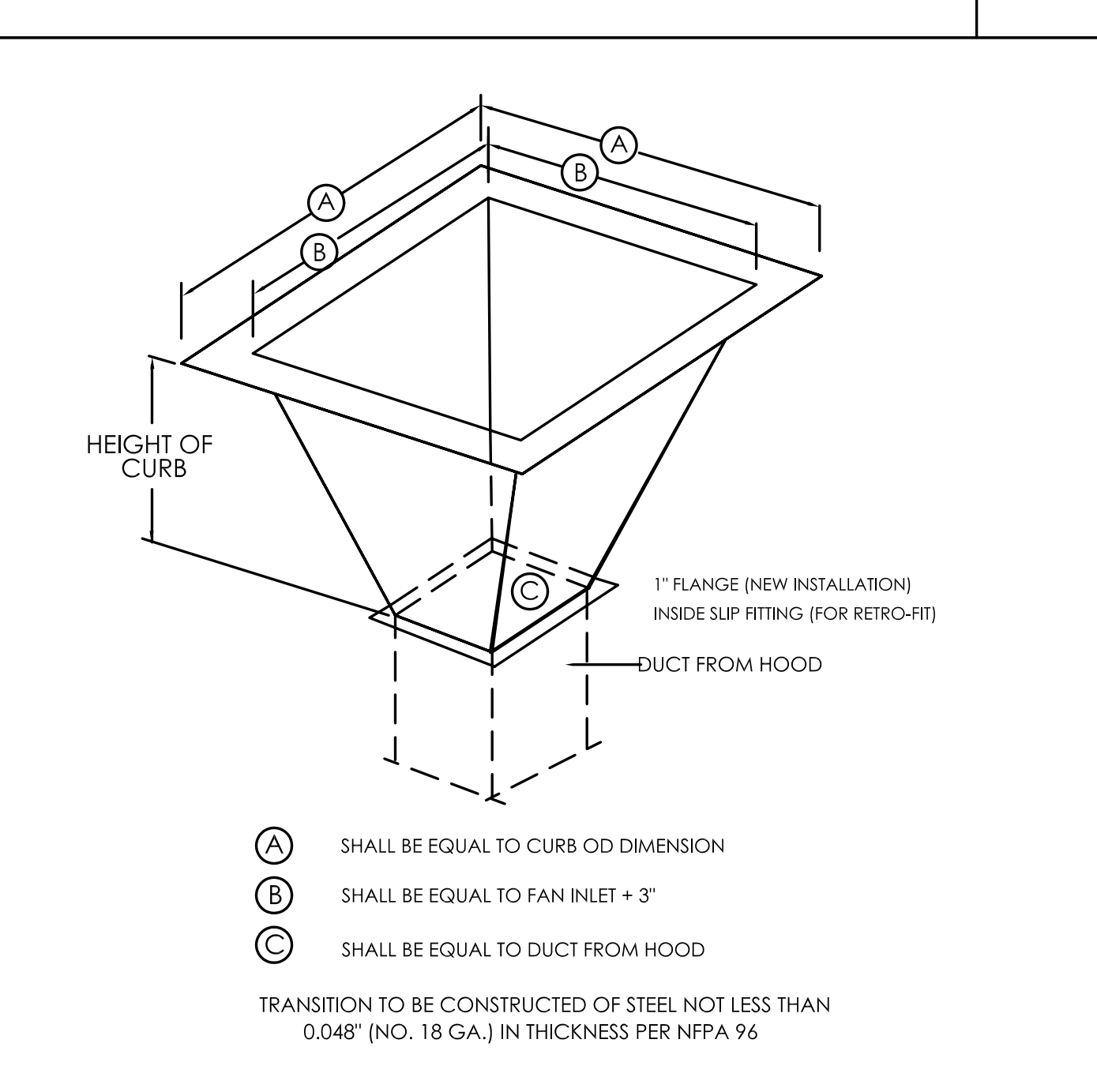
NOTES:  
1) USE ROUND NECK MODEL D-75 DAMPER.  
2) FACE SIZE DEPENDENT ON NECK SIZE. REFER TO MANUFACTURER'S SPECIFICATIONS.  
3) ALTERNATIVE MANUFACTURERS: E. H. PRICE, NALOR, TUTTLE & BAILEY.  
4) REFER TO DRAWINGS FOR DIFFUSER THROW PATTERN.

SUPPLY AIR UNIT	OUTSIDE AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	SUPPLY AIRFLOW (CFM)	OA/SA %	EXHAUST AIR UNIT	EXHAUST AIRFLOW (CFM)	REMARKS
RTU-1	900	5,100	6,000	15%	EF-1	1,800	
RTU-2	1,635	4,490	6,125	26.6%	EF-2	3,160	
RTU-3	1,635	4,490	6,125	26.6%	EF-3	1,400	
MUA-1	5,088	0	5,088	100.0%	EF-4	900	
					EF-5	600	
TOTAL	9,258	14,080	23,338	39.6%	TOTAL	7,860	
				RESULTING BUILDING PRESSURIZATION		1,398 CFM	
				PRESSURIZATION PERCENTAGE		17.7%	

### 3 MECHANICAL SYMBOLS AND ABBREVIATIONS



### 2 EXHAUST FAN DUCT TRANSITION



### 4 REMOTE TEMPERATURE SENSOR

### 2 EXHAUST FAN DUCT TRANSITION

#### TRANE HVAC MATERIAL PACKAGE

For Complete Information And Pricing On The Following Package Of Equipment Contact Justin Barnes, The Red Robin Account Executive At Trane National Accounts: PH: Toll Free - (800) 729-9115; FAX: (303) 228-2828; Email: jdbarnes@trane.com

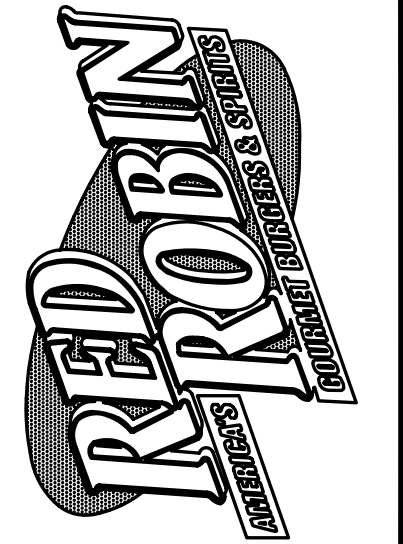
EQUIPMENT PACKAGE:  
INCLUDES ALL ROOFTOP A/C UNITS WITH ACCESSORIES AS SPECIFIED ON THE PLANS AND SPECIFICATIONS.

CURB PACKAGE:  
INCLUDES ALL ROOFTOP A/C UNITS.

NOTE: ORDERING PROCEDURES  
THE HVAC CONTRACTOR WILL BE RESPONSIBLE FOR EQUIPMENT PURCHASE (UNLESS OTHERWISE DIRECTED BY THE GENERAL CONTRACTOR), WARRANTY, DELIVERY COORDINATION, RECEIVING AND INSTALLATION AS DESCRIBED IN THE SPECIFICATIONS. THE SUCCESSFUL HVAC CONTRACTOR CAN PLACE THE ORDER FOR THIS PACKAGE DIRECTLY WITH TRANE NATIONAL ACCOUNTS.

### 5 TRANE HVAC AND MATERIAL PACKAGE

### 1 H.V.A.C. SCHEDULES AND AIR BALANCE SCHEDULE



LEHIGH VALLEY RESTAURANT GROUP  
6802A HAMILTON BLVD  
ALLENTOWN, PENNSYLVANIA 18106  
(610) 481-0438  
FAX (610) 481-0437

McHUGH ENGINEERING ASSOCIATES, INC.  
550 PINETOWN ROAD  
FT. WASHINGTON, PA 19004  
TEL (215) 641-1158  
FAX (215) 641-0154

JOSEPH CATTELLI ARCHITECT  
1840 Keith Road • Allentown, PA 18001

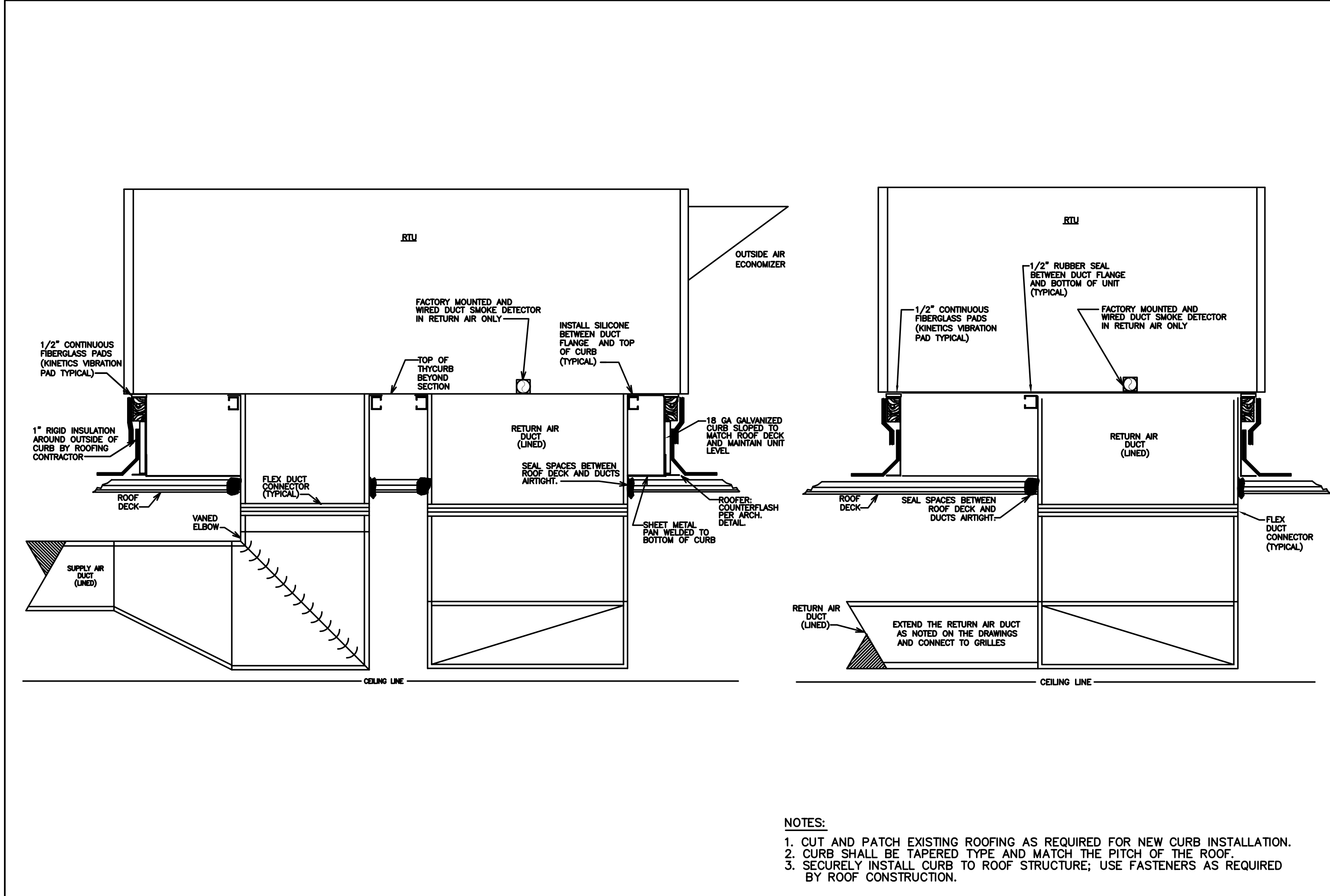
RED ROBIN GOURMET BURGERS  
65 Rte 611, Bartonsville, PA 18321  
Stroud Twp., Monroe County, PA

H.V.A.C. EQUIPMENT SCHEDULE

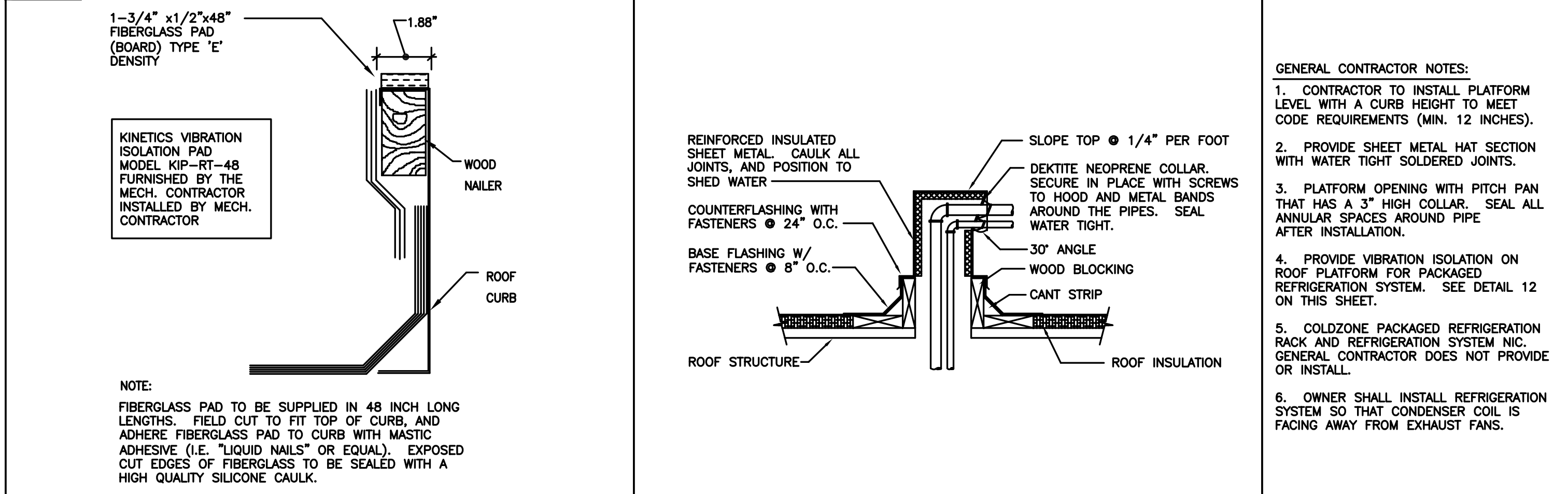
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Date 8/11/06

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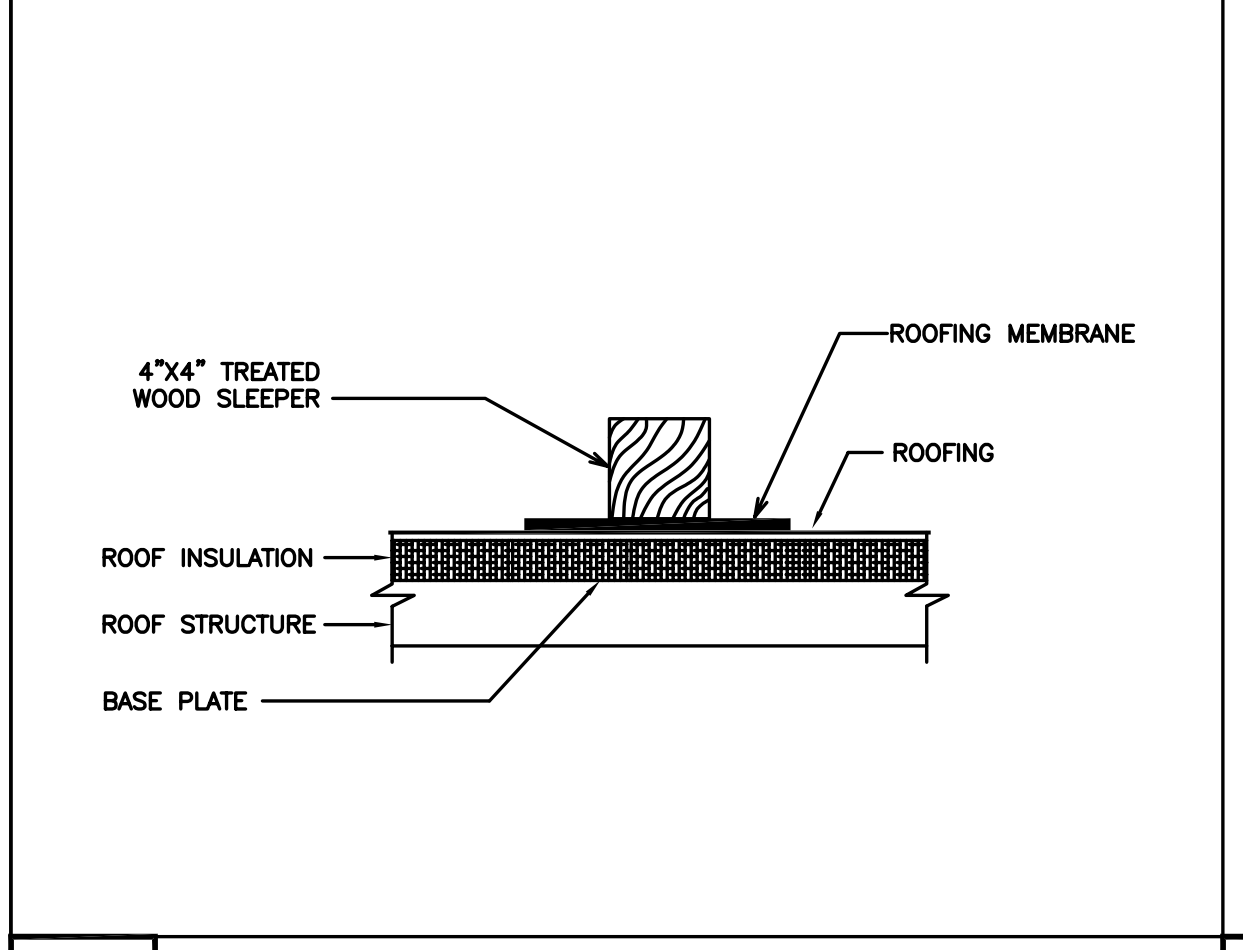
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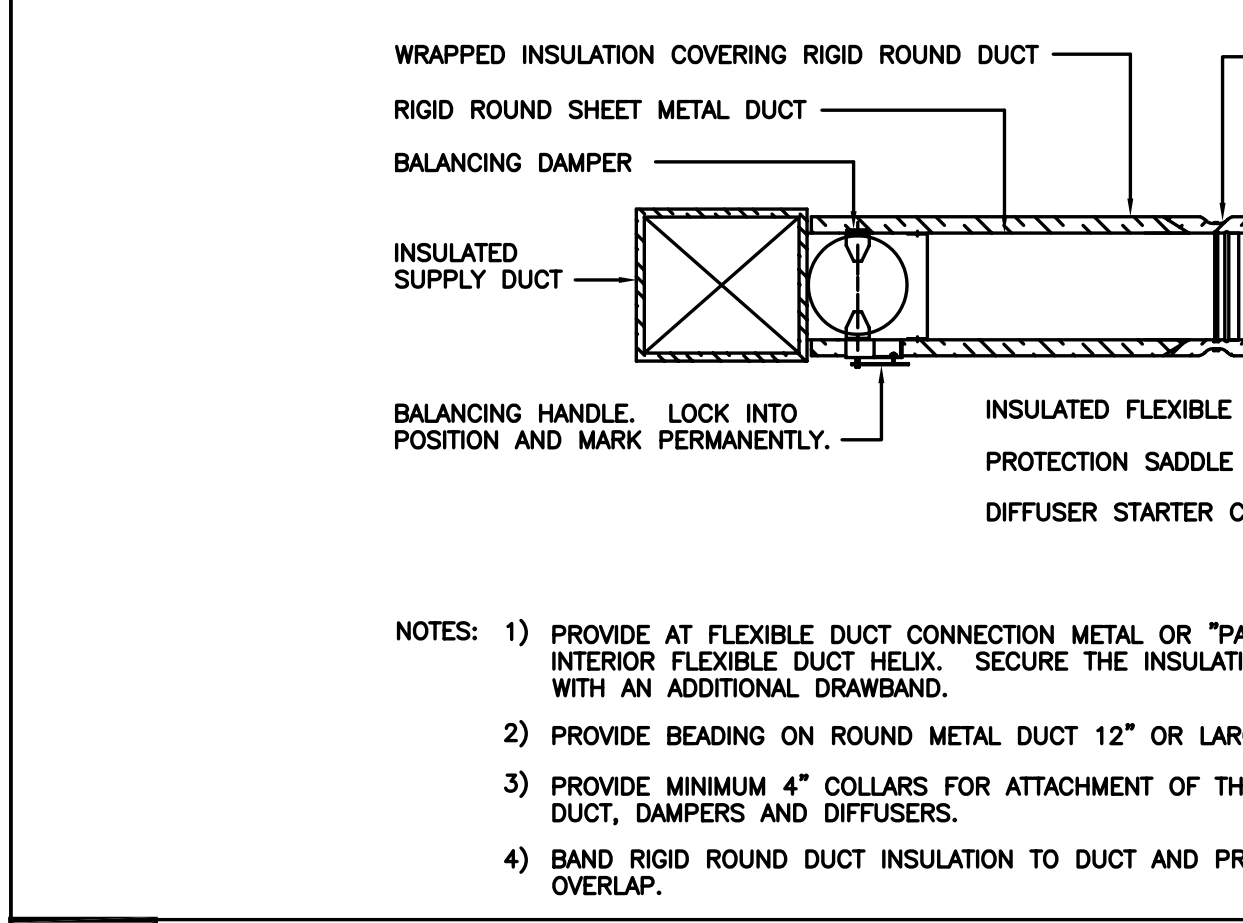
**11 ROOFTOP UNIT AND SLOPED CURB**  
SCALE: NONE



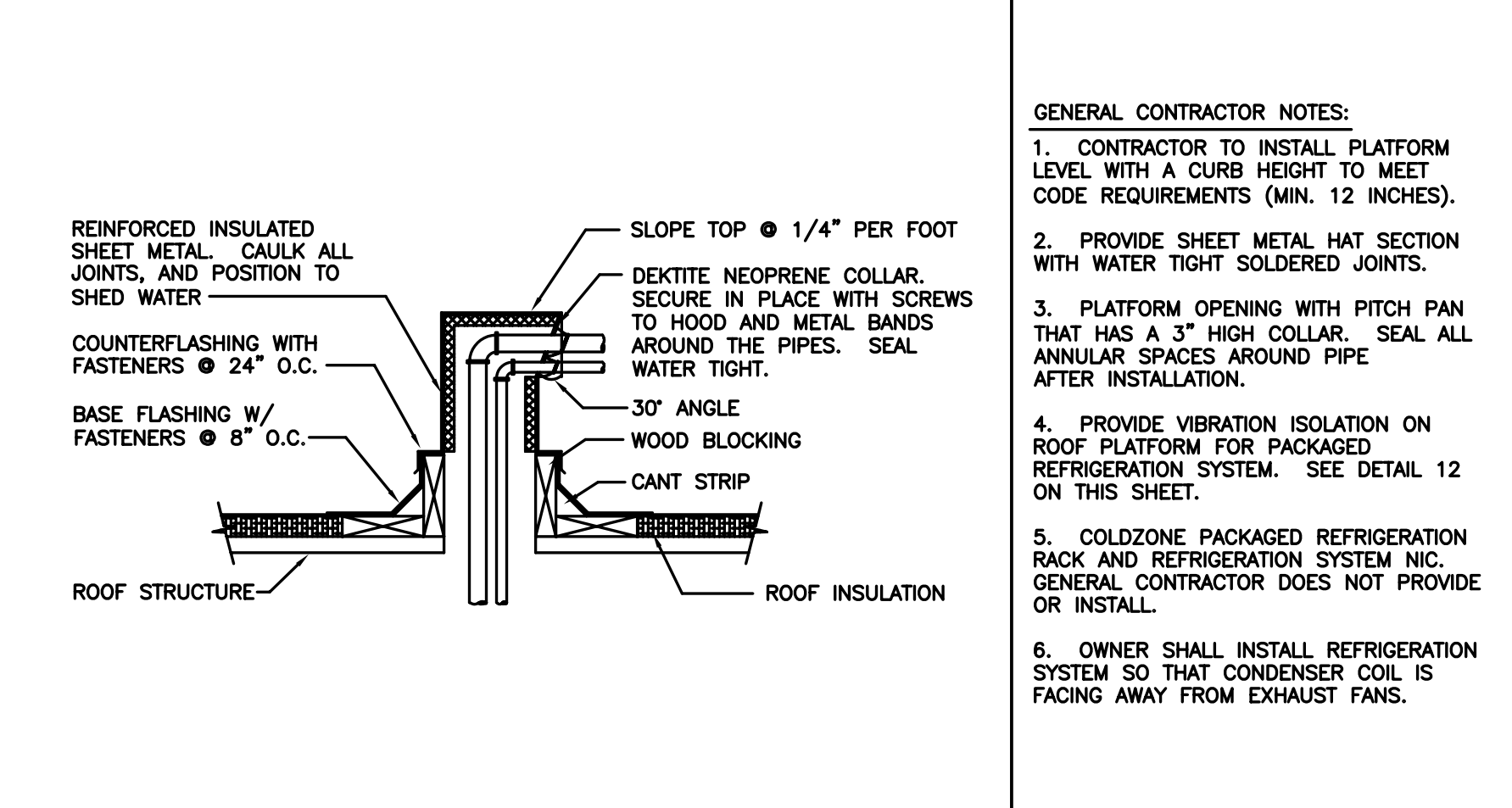
**12 CURB VIBRATION ISOLATION PAD**  
SCALE: NONE



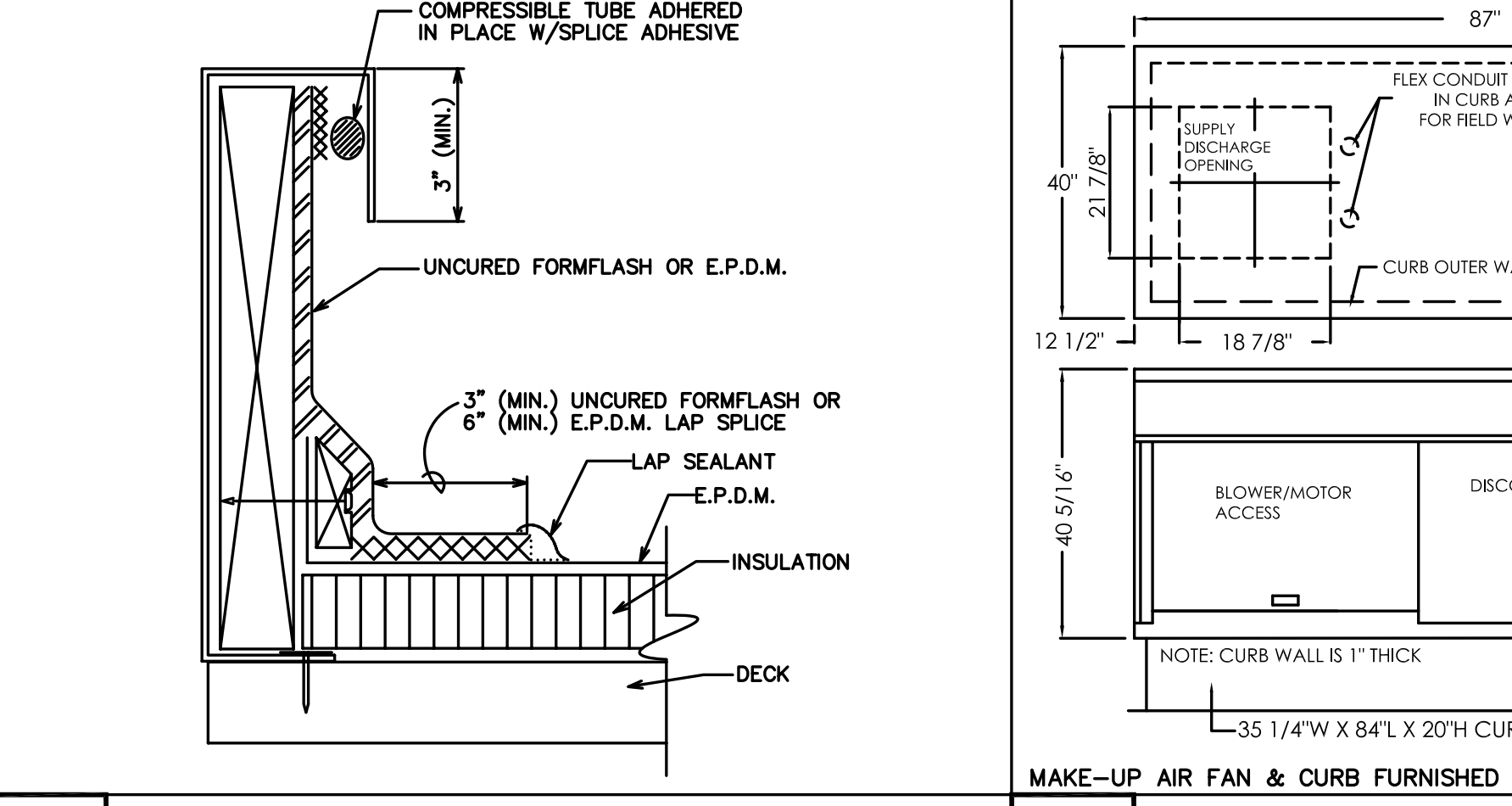
**13 EQUIPMENT SUPPORT DETAIL**  
SCALE: NONE



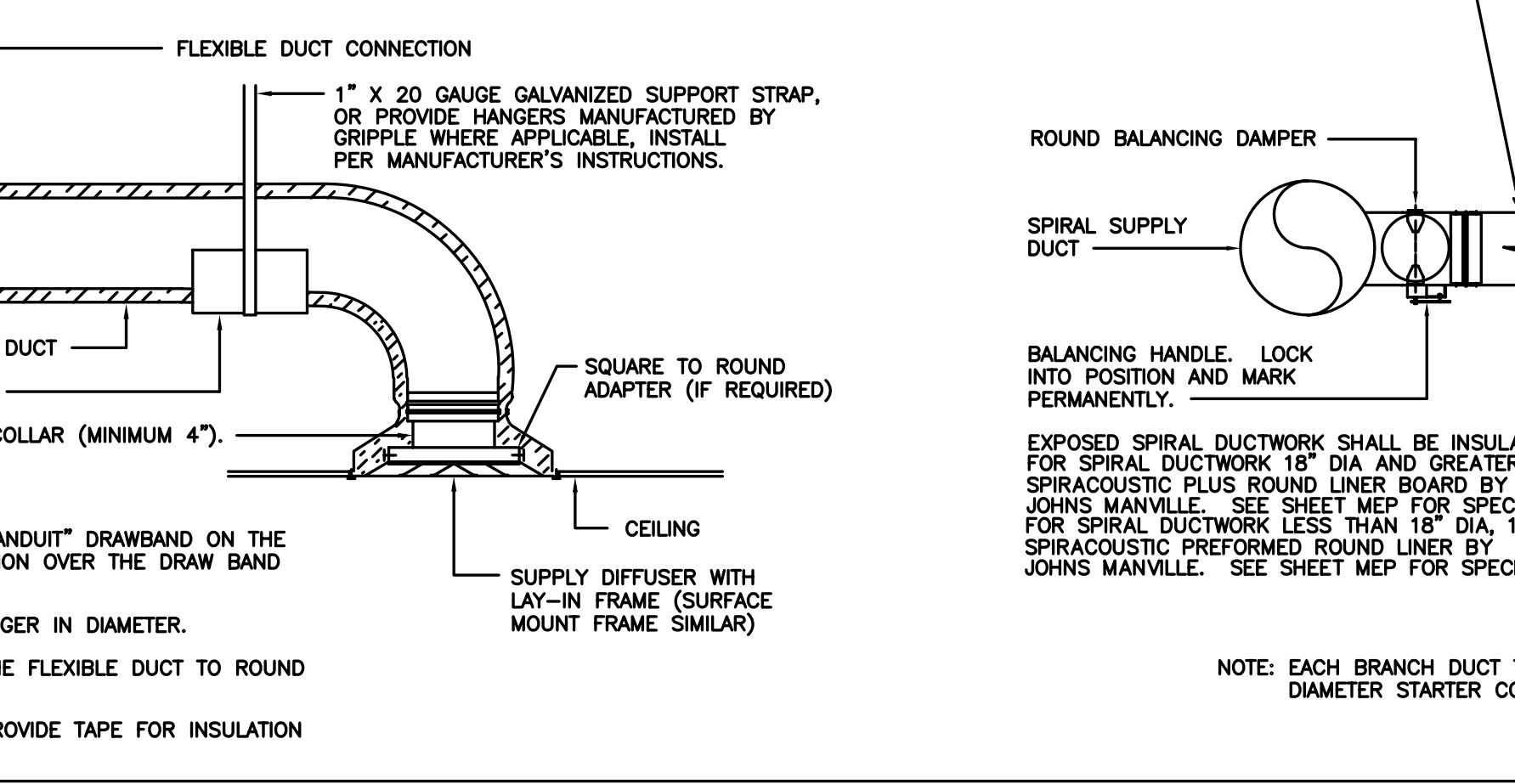
**14 BRANCH DUCT CONNECTIONS**  
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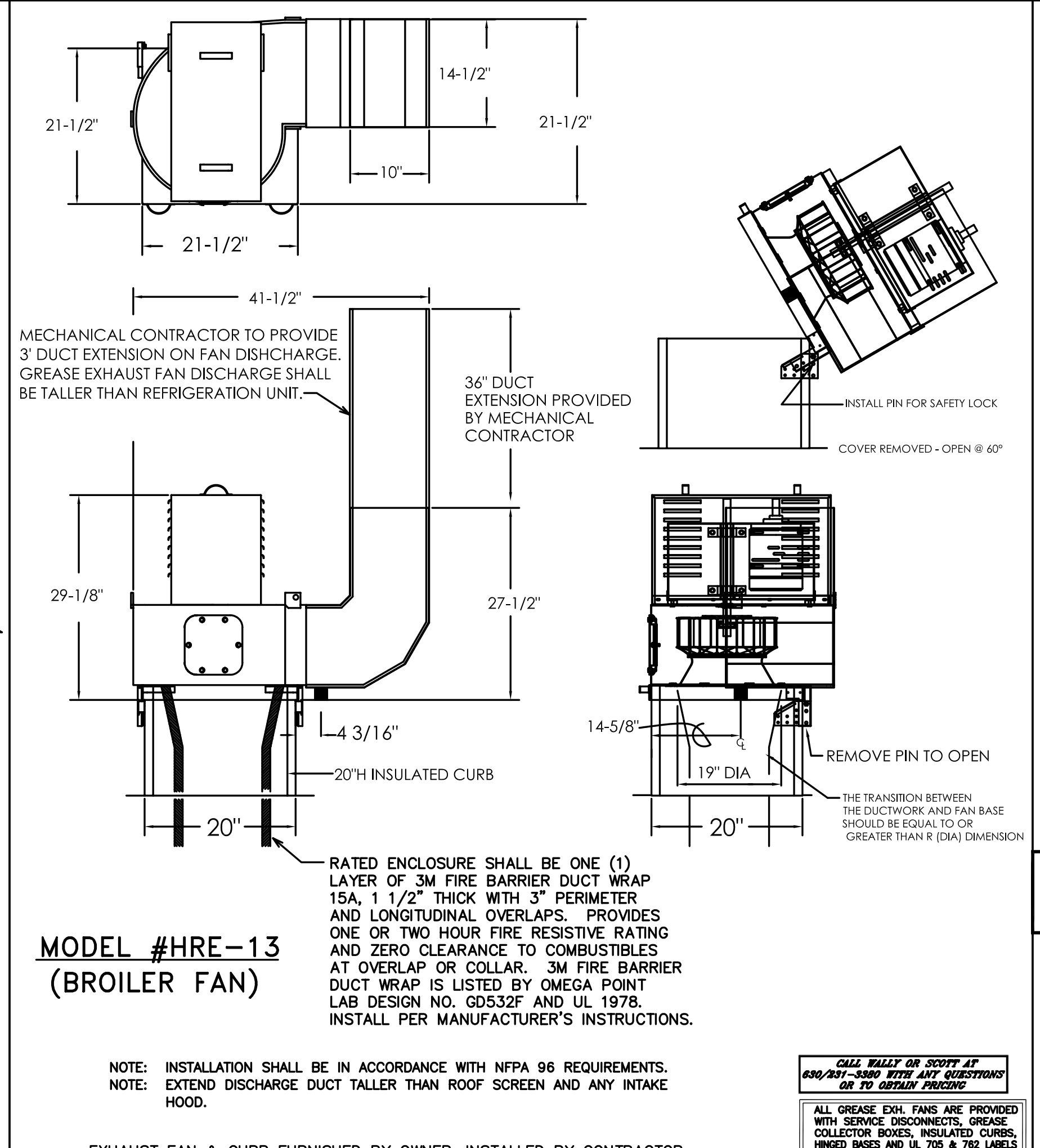
**9 REFRIG. PIPE ROOF PENETRATION**  
SCALE: NONE



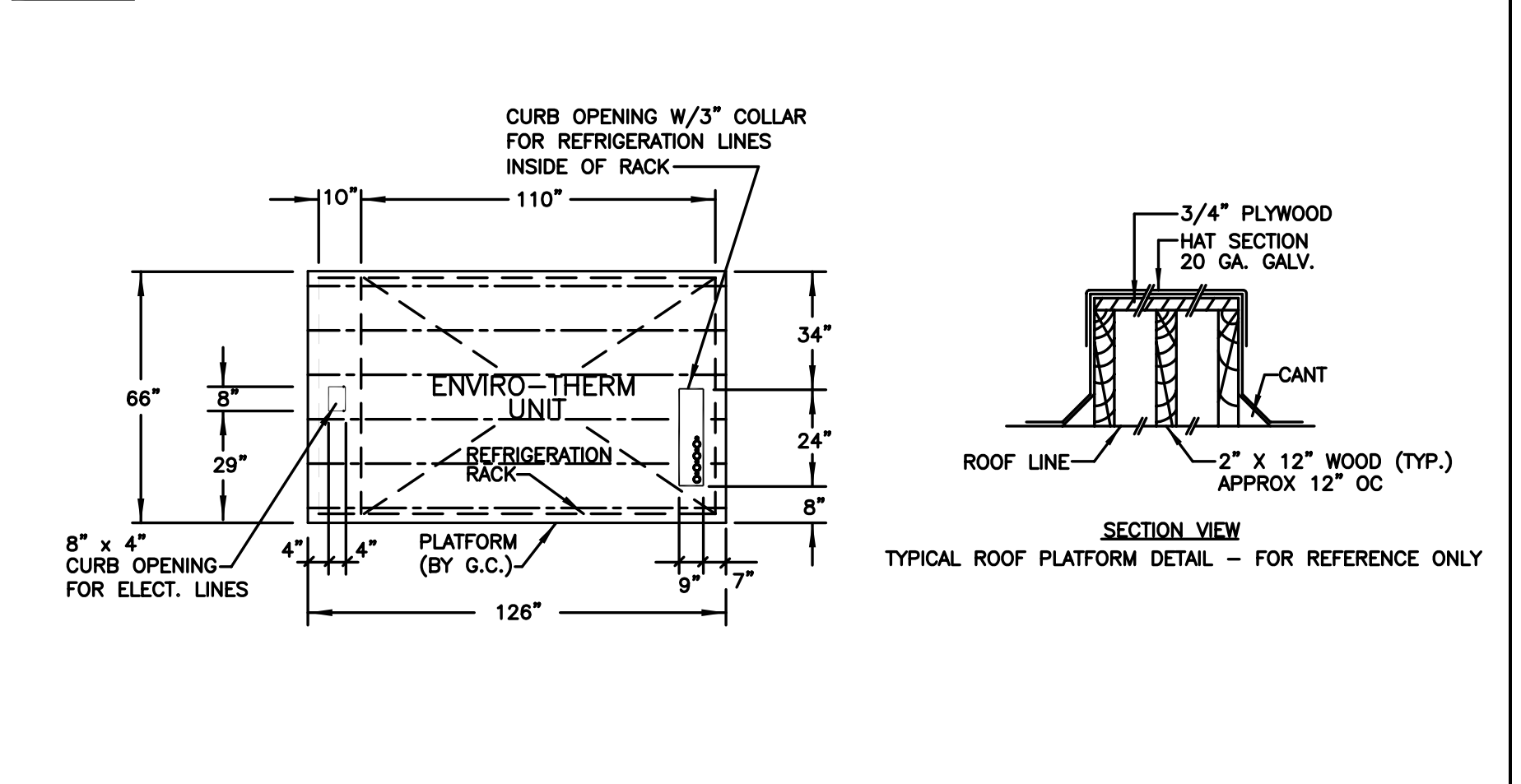
**10 CURB FLASHING DETAIL**  
SCALE: NONE



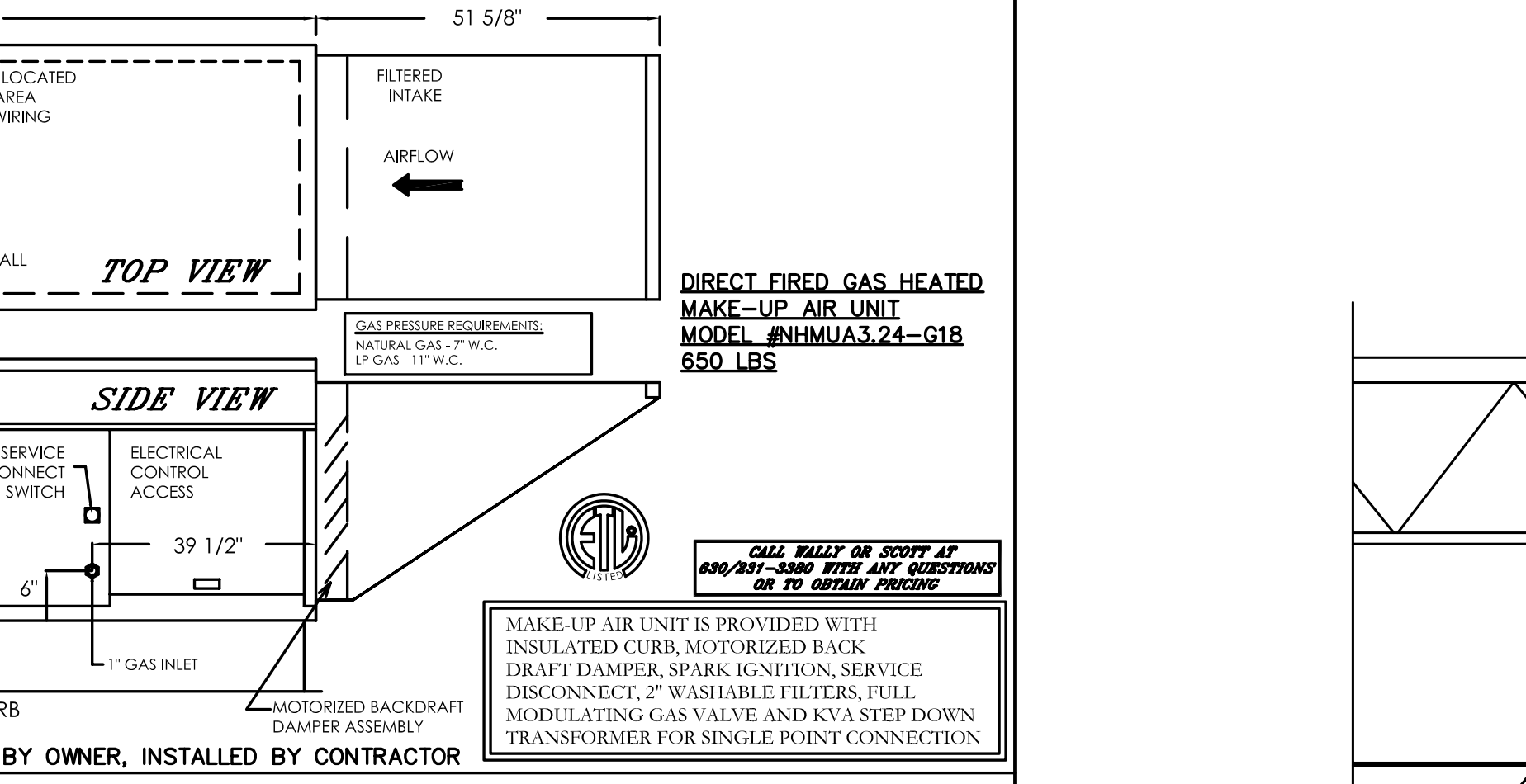
**5 KITCHEN HOOD SECTION**  
SCALE: NONE



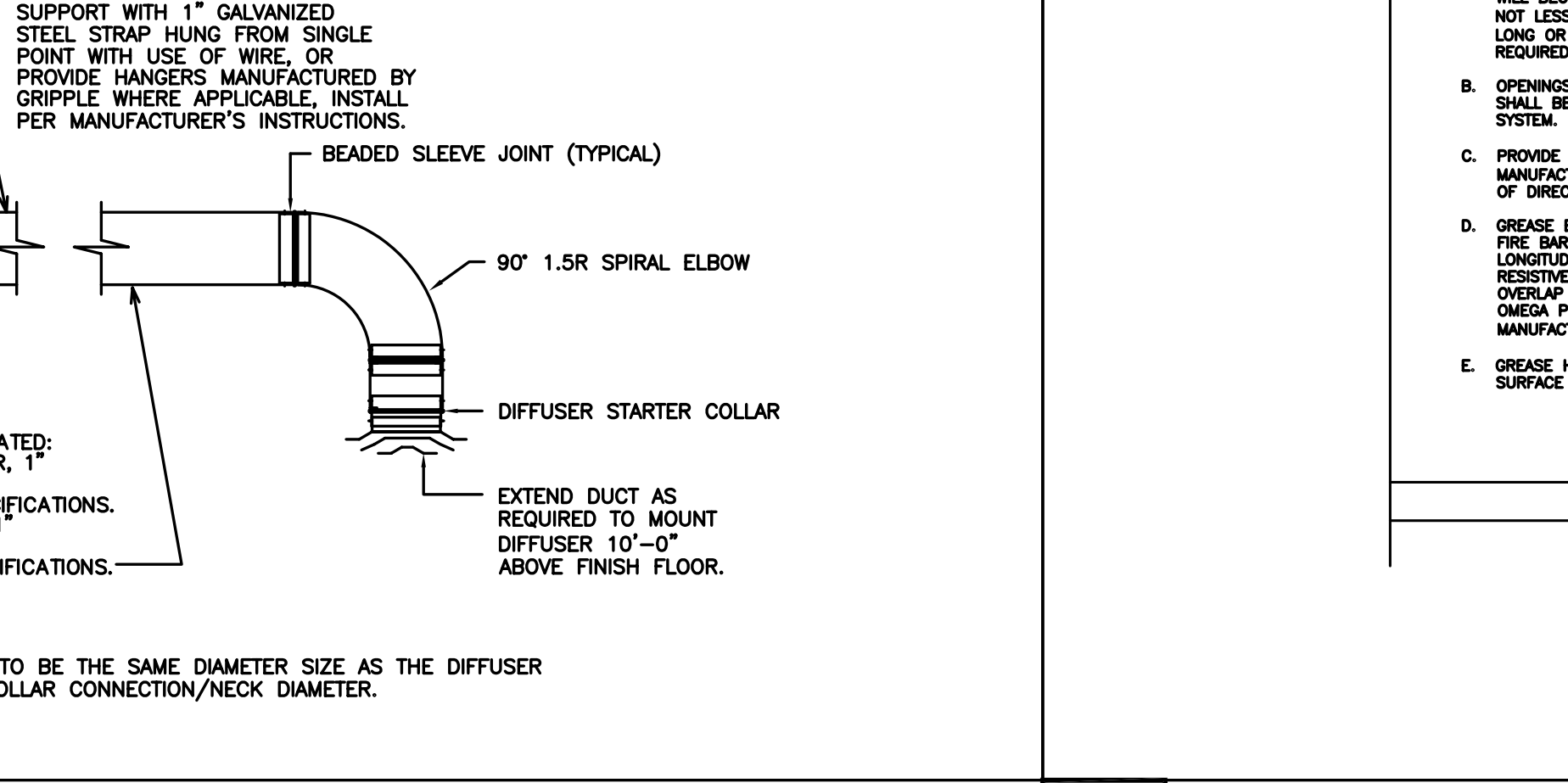
**6 HIGH VELOCITY RESTAURANT UPBLAST EXHAUST FAN (EF-1)**  
SCALE: NONE



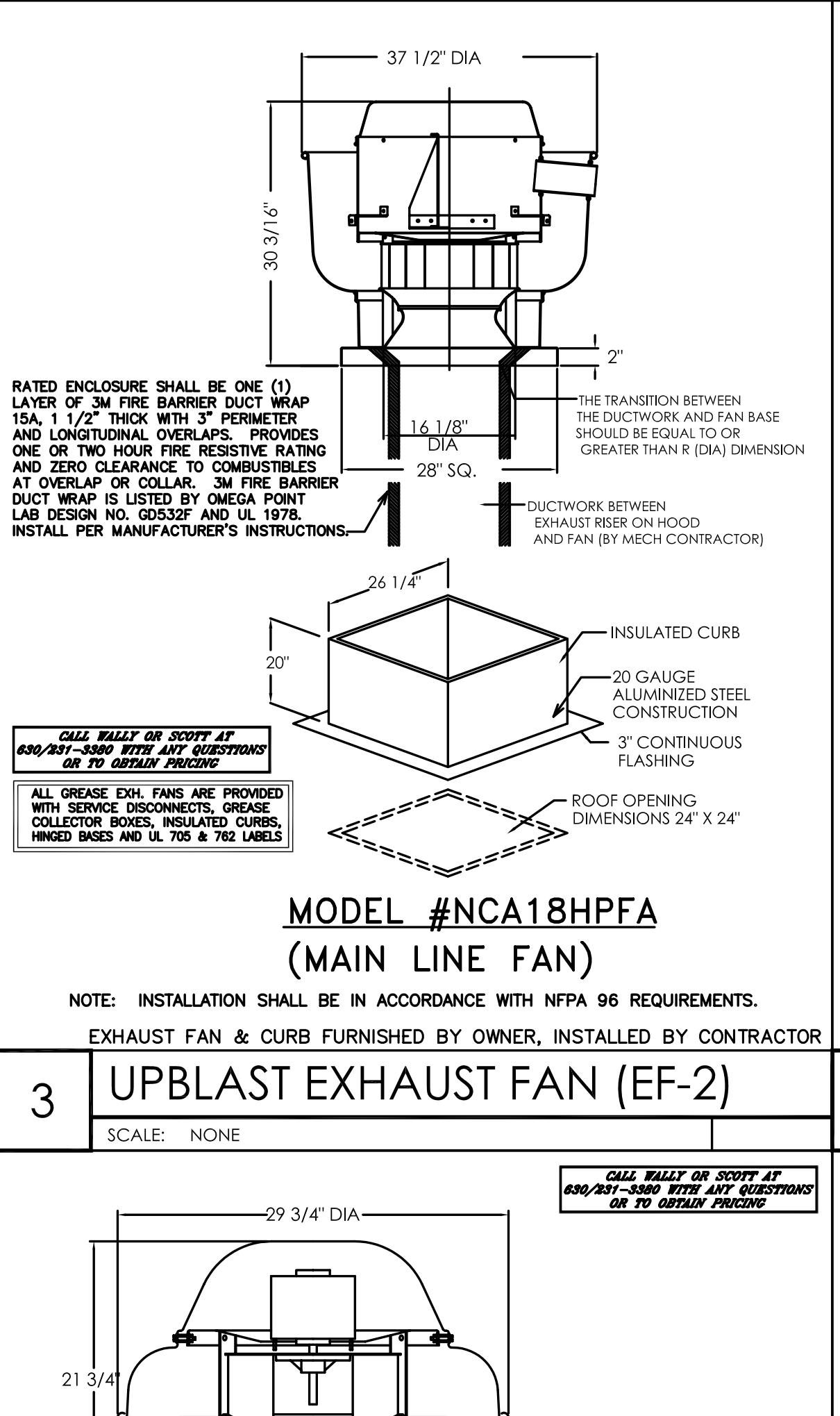
**7 ROOF PLATFORM DETAIL FOR PACKAGED REFRIGERATION SYSTEM**  
SCALE: NONE



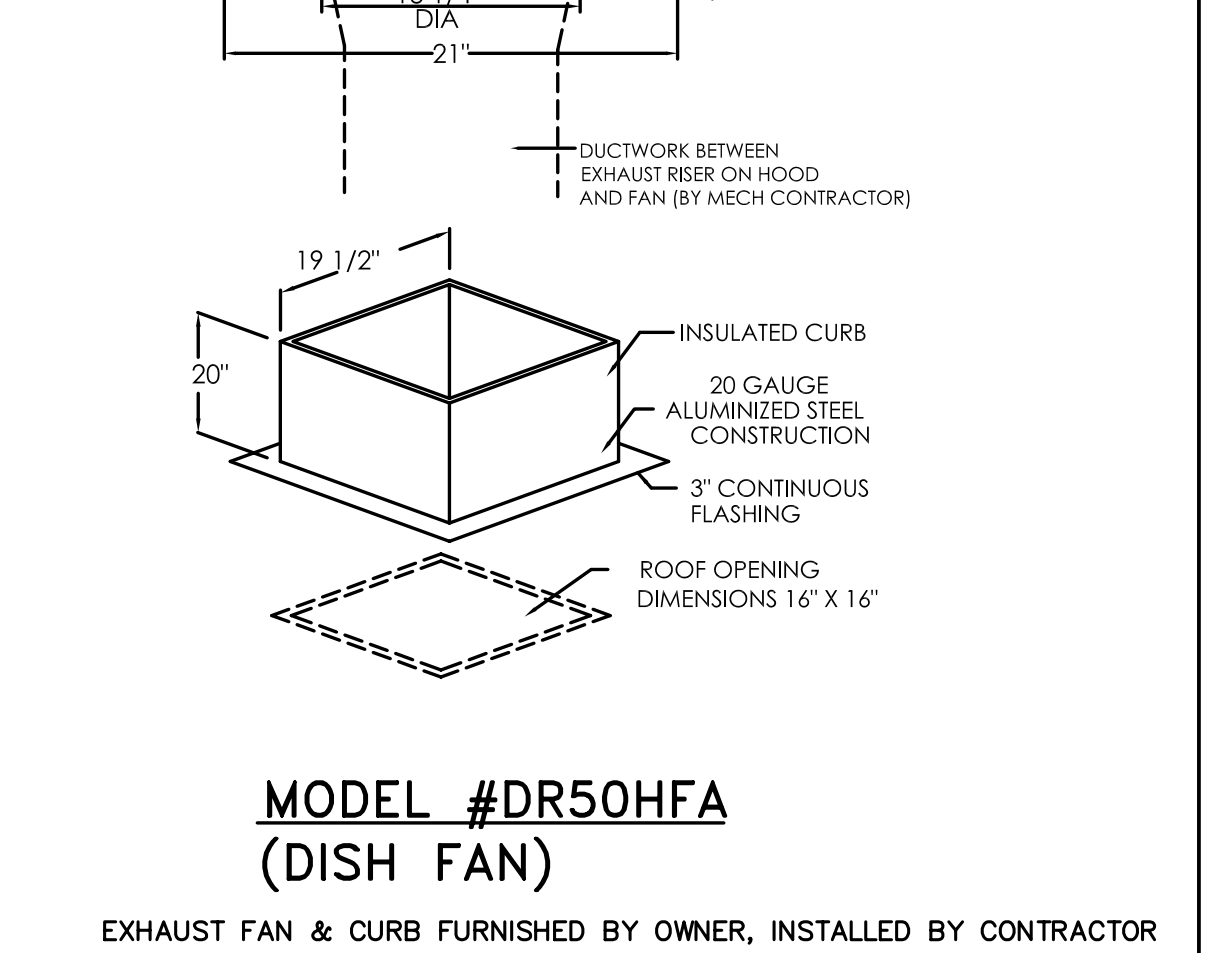
**8 DIRECT FIRED GAS HEATED MAKE-UP AIR UNIT (MUA-1)**  
SCALE: NONE



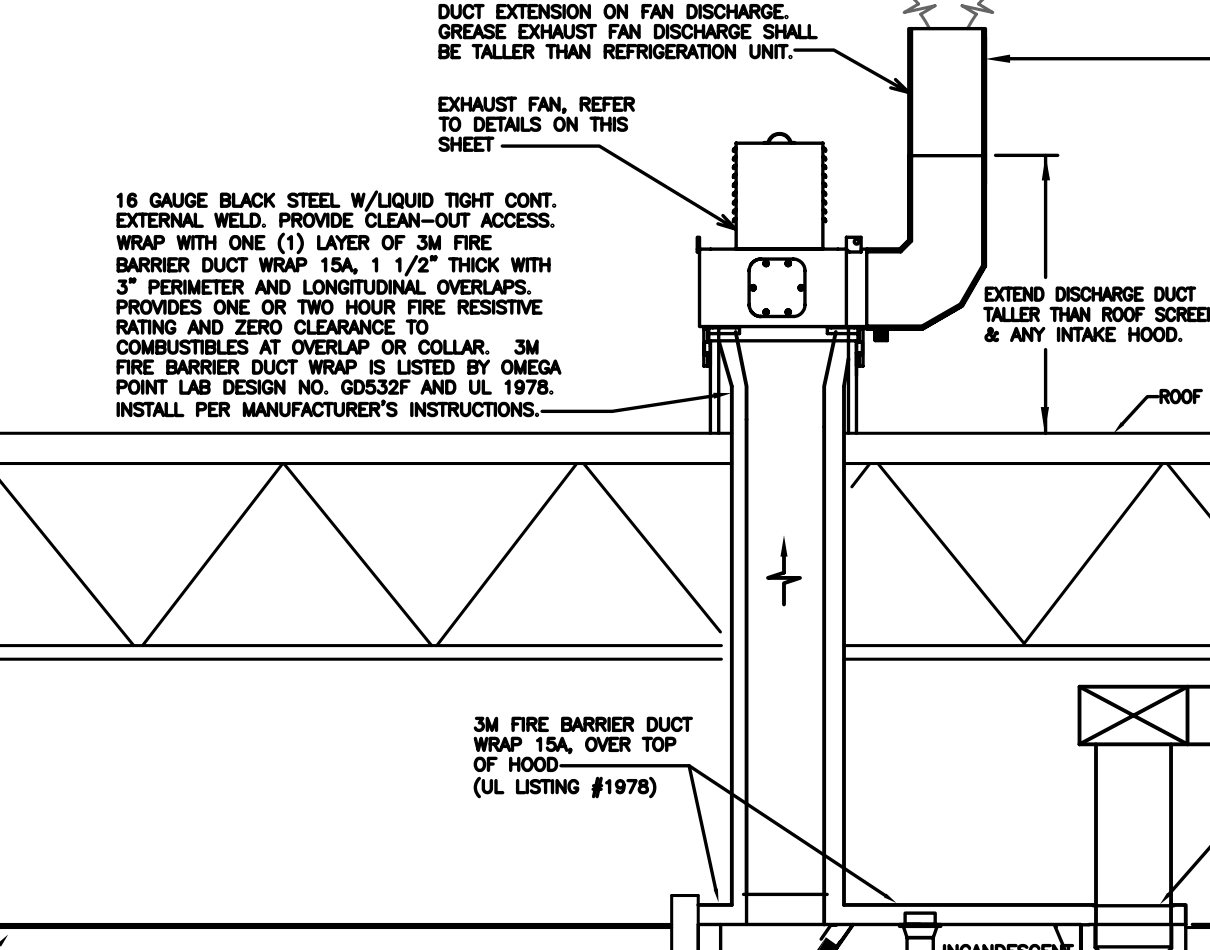
**5 KITCHEN HOOD SECTION**  
SCALE: NONE



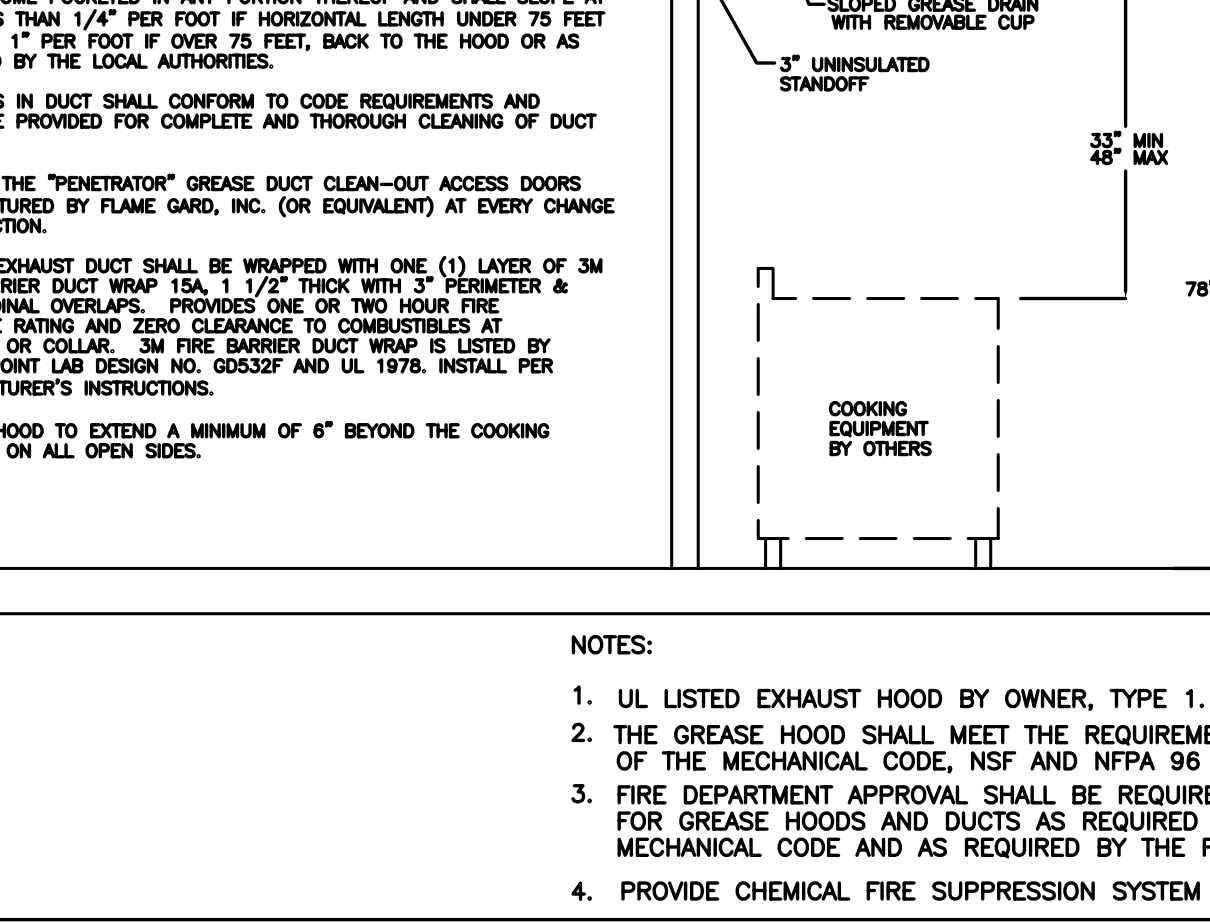
**3 UPBLAST EXHAUST FAN (EF-2)**  
SCALE: NONE



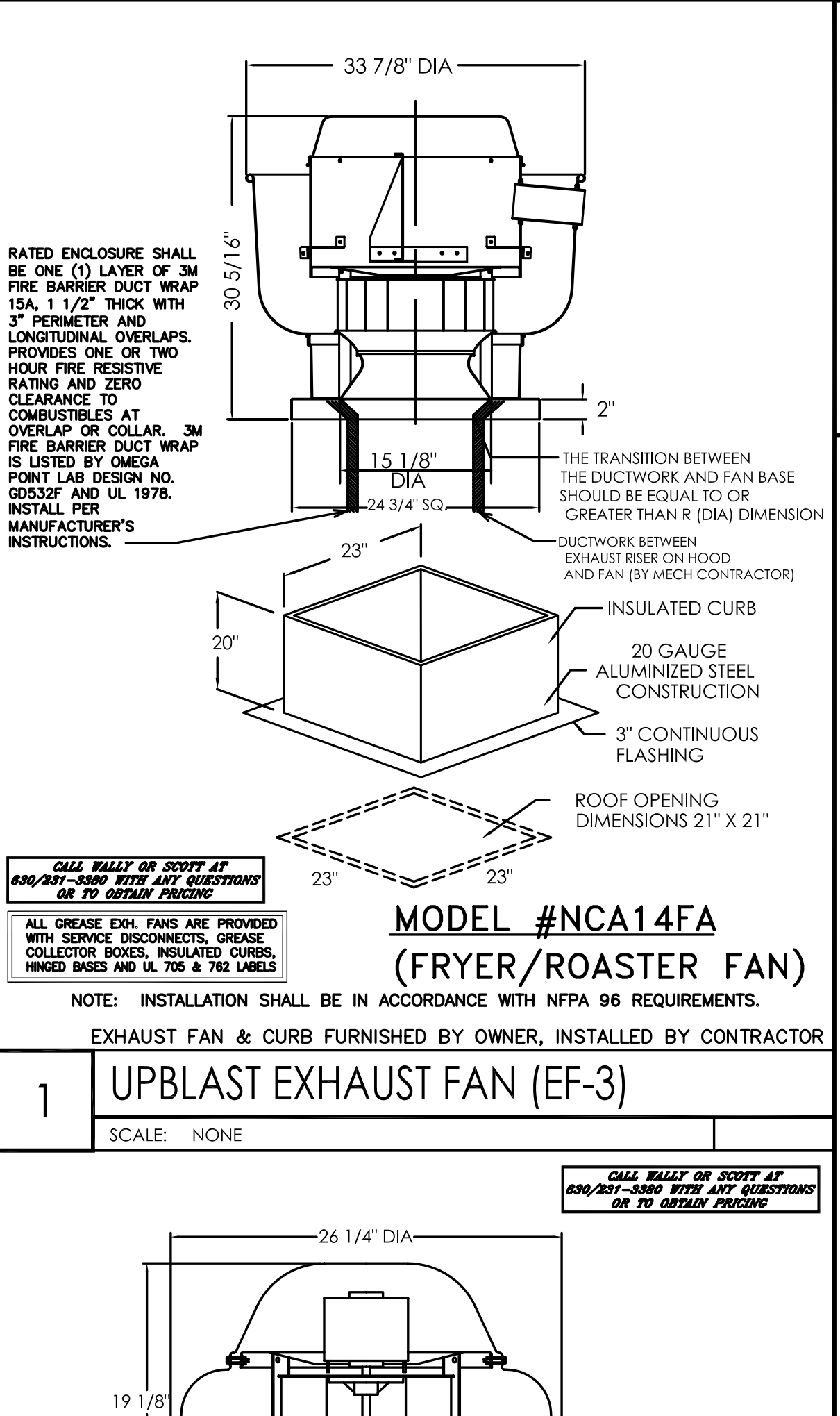
**4 DOWNBLAST EXHAUST FAN (EF-4)**  
SCALE: NONE



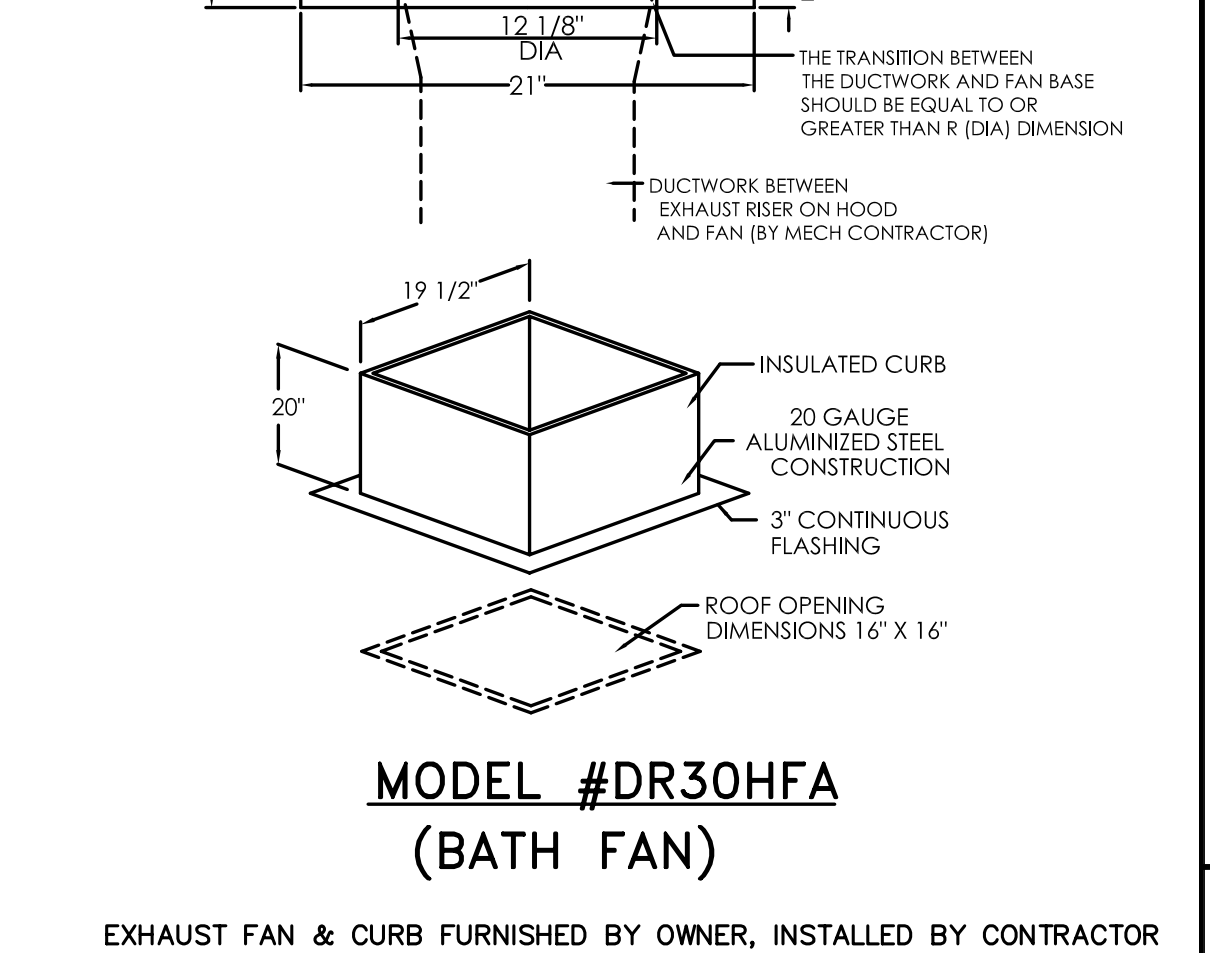
**2 DOWNBLAST EXHAUST FAN (EF-5)**  
SCALE: NONE



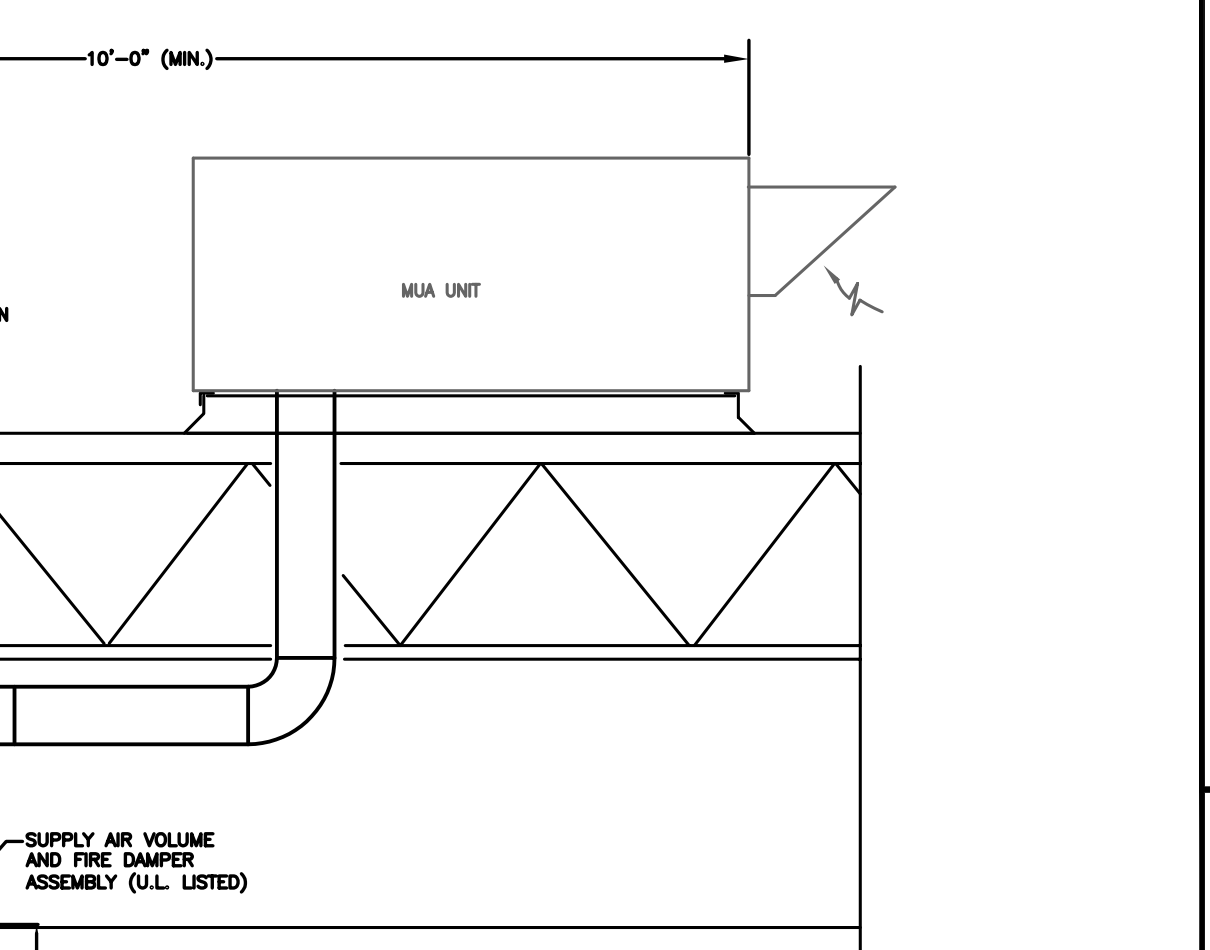
**5 KITCHEN HOOD SECTION**  
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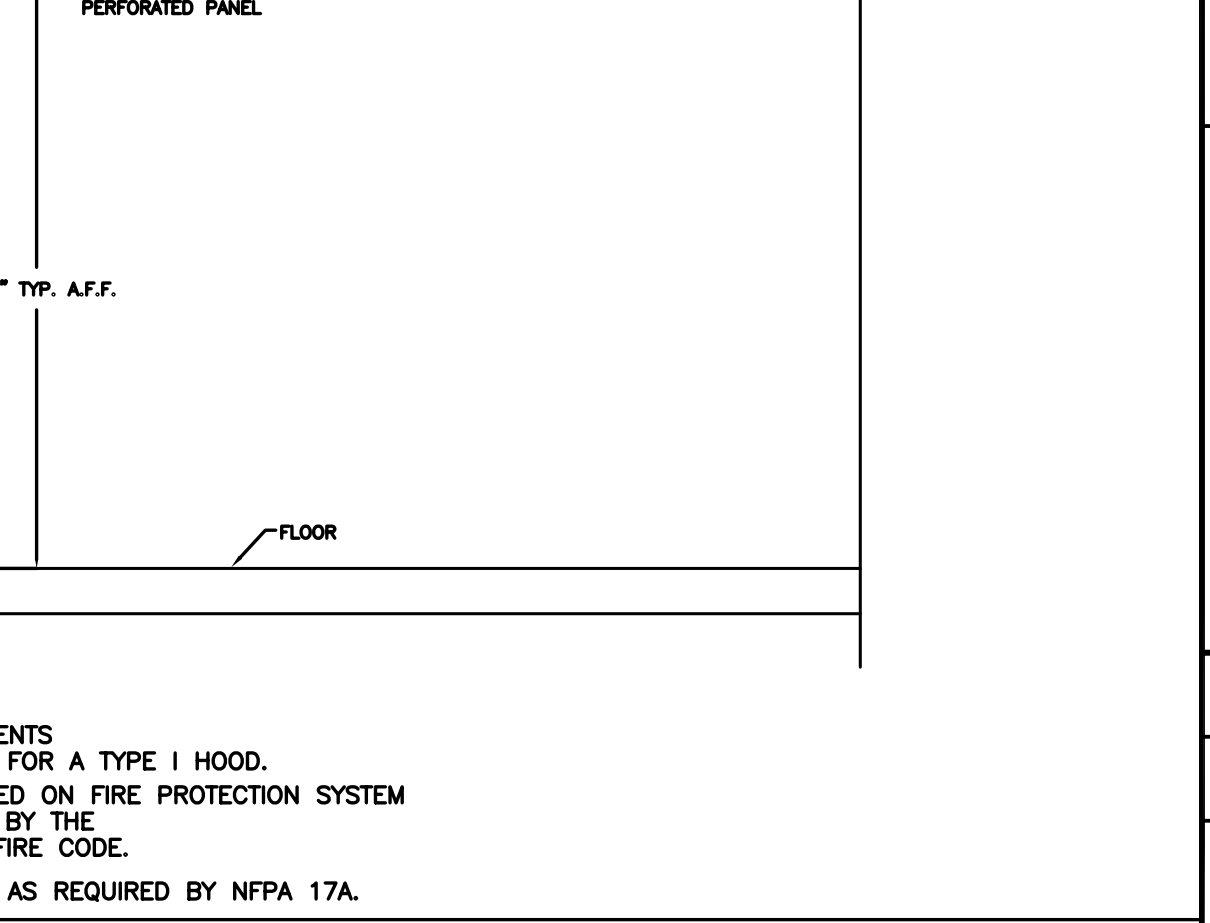
**1 UPBLAST EXHAUST FAN (EF-3)**  
SCALE: NONE



**2 DOWNBLAST EXHAUST FAN (EF-5)**  
SCALE: NONE



**2 DOWNBLAST EXHAUST FAN (EF-5)**  
SCALE: NONE



**5 KITCHEN HOOD SECTION**  
SCALE: NONE

**RED ROBIN RESTAURANT GROUP**  
6802A HAMILTON BLVD  
ALLENTOWN, PENNSYLVANIA 18054  
(610) 488-1438  
FAX (610) 488-1437

**LEHIGH VALLEY RESTAURANT GROUP**  
6802A HAMILTON BLVD  
ALLENTOWN, PENNSYLVANIA 18054  
(610) 488-1438  
FAX (610) 488-1437

**McHUGH ASSOCIATES, INC.**  
550 FINNETOWN ROAD  
FT. WASHINGTON, PA 19034  
TEL (215) 641-1158  
FAX (215) 641-0394

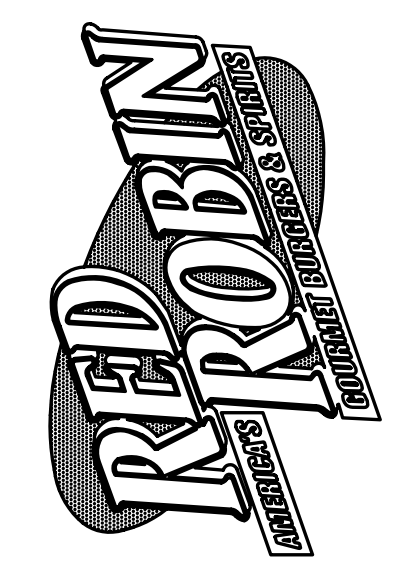
**JOSEPH CATTELL ARCHITECT**  
1840 Keith Road • Allentown, PA 18011

**RED ROBIN GOURMET BURGERS**  
65 Rte 611, Batonsville, PA 18321  
Stroud Twp., Monroe County, PA

**H.V.A.C. EQUIPMENT DETAILS**

Owner: **RED ROBIN RESTAURANT GROUP**  
Construction Manager: **LEHIGH VALLEY RESTAURANT GROUP**  
Structural Consultant: **McHUGH ASSOCIATES, INC.**  
MEP Consultant: **McHUGH ASSOCIATES, INC.**  
Architect: **JOSEPH CATTELL ARCHITECT**

Drawn By: L.S.O. Checked By: MW/RJ  
Scale: AS NOTED Date: 8/11/06  
Issued: FOR CONSTRUCTION  
Sheet No. **H3.1**



**LEHIGH VALLEY RESTAURANT GROUP**  
6802-A HAMILTON BLVD  
ALLENTOWN, PENNSYLVANIA 18106  
(610) 481-1438  
FAX (610) 481-1437

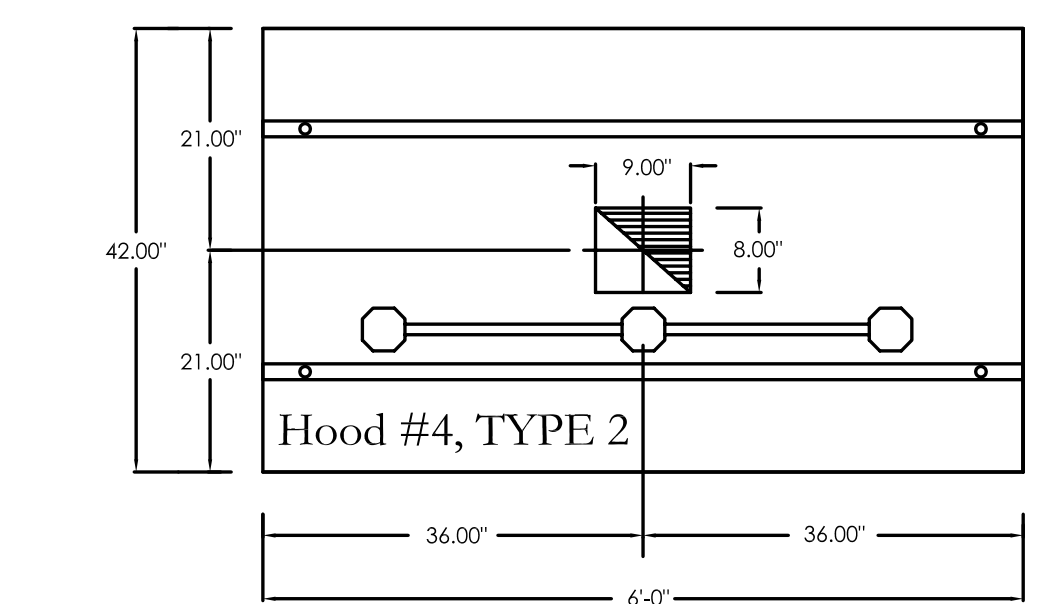
**McHUGH ENGINEERING ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
550 PINETOWN ROAD  
FT. WASHINGTON, PA 19004  
TEL (215) 641-1158  
FAX (215) 641-0194

**JCA ARCHITECT**  
1840 Keith Road • Allentown, PA 18011

**RED ROBIN GOURMET BURGERS**  
65 Rte 611, Batonsville, PA 18321  
Stroud Twp., Monroe County, PA

**FIRE SUPPRESSION & EXHAUST HOOD DETAILS**

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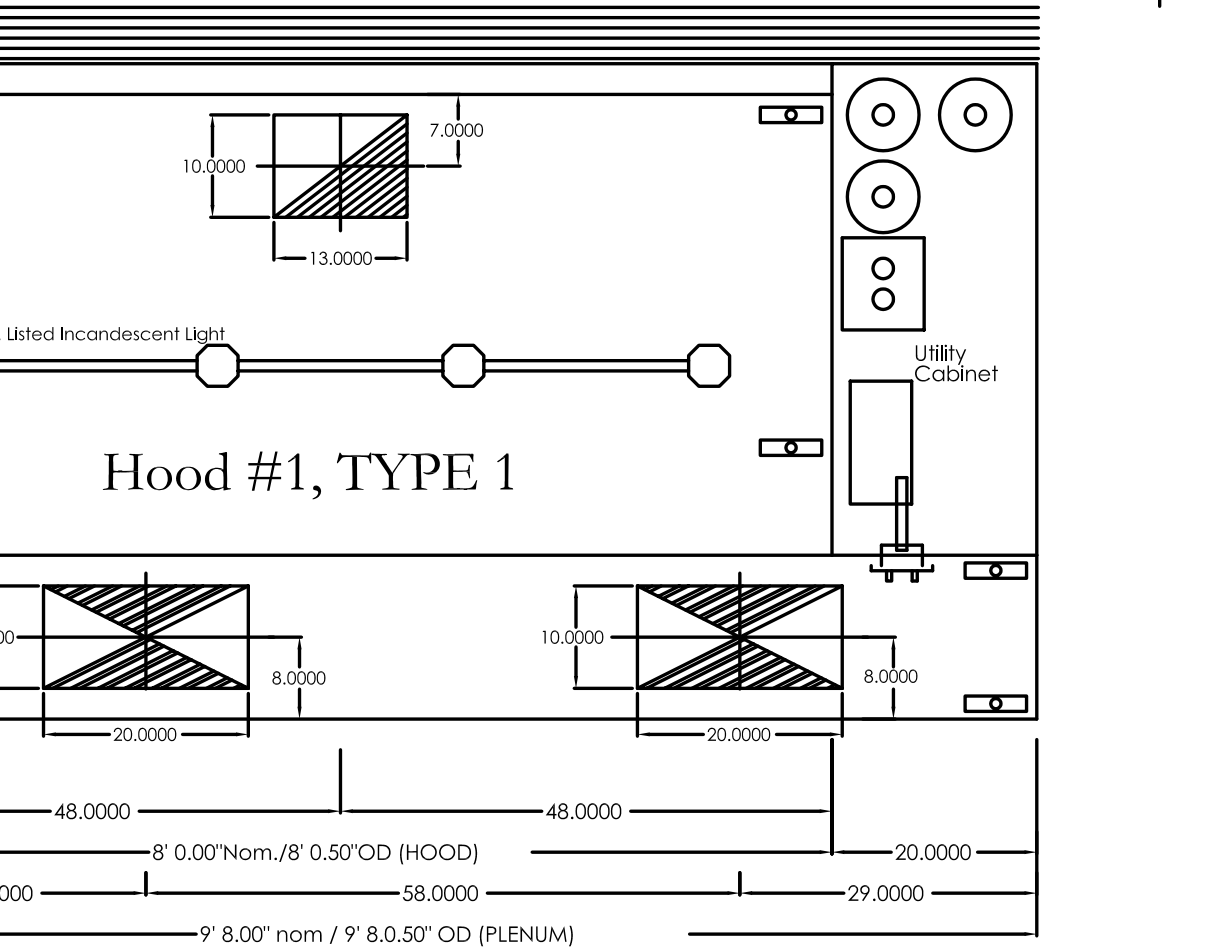
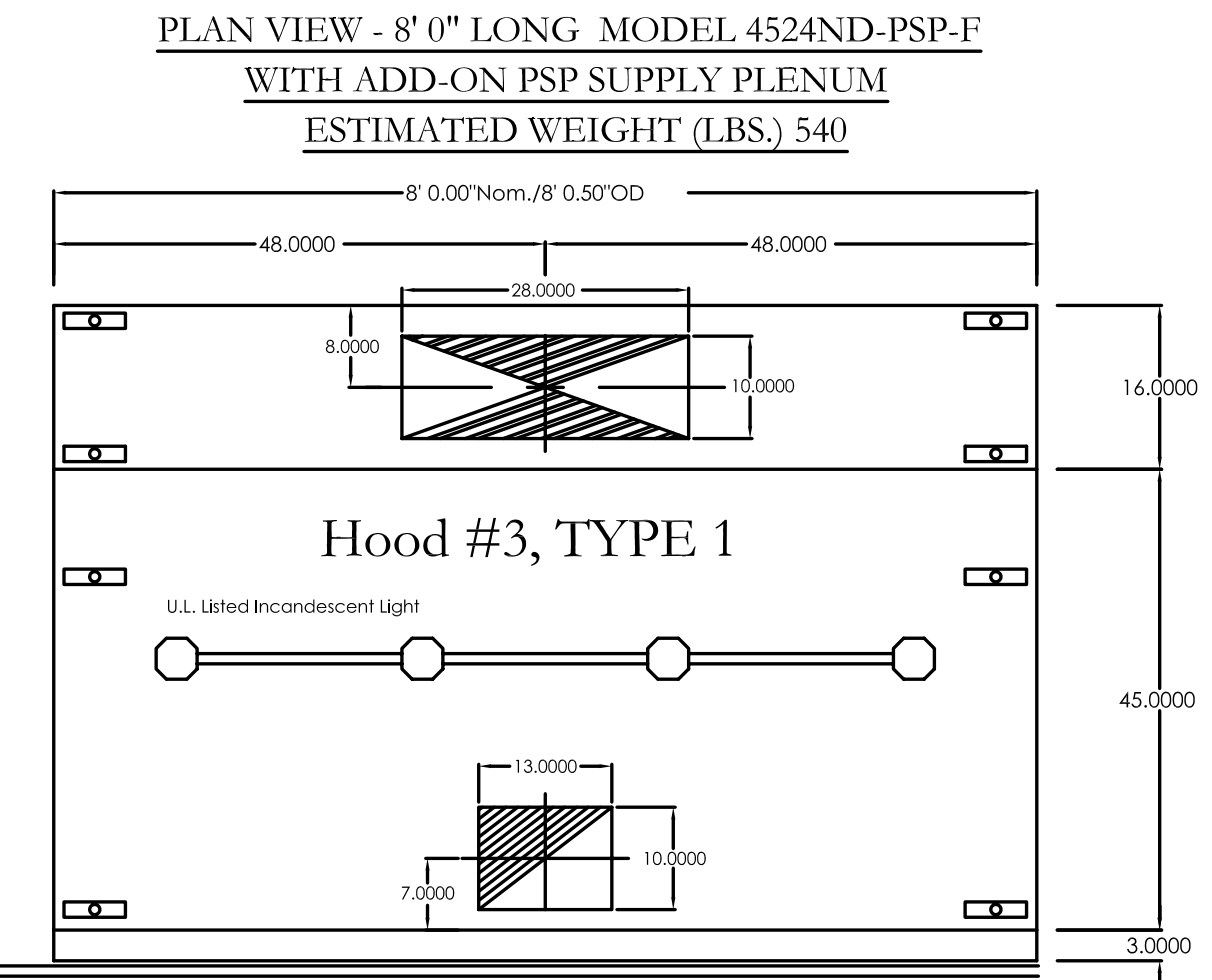


PLAN VIEW - 6' 0" LONG MODEL 4224-VH1-G (DISH MACHINE HOOD)  
ESTIMATED WEIGHT (LBS.) 120

FOR QUESTIONS, CALL CAPTIVE-AIRE WALLY OR SCOTT  
PHONE: (630) 231-3380  
FAX: (630) 231-8721

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

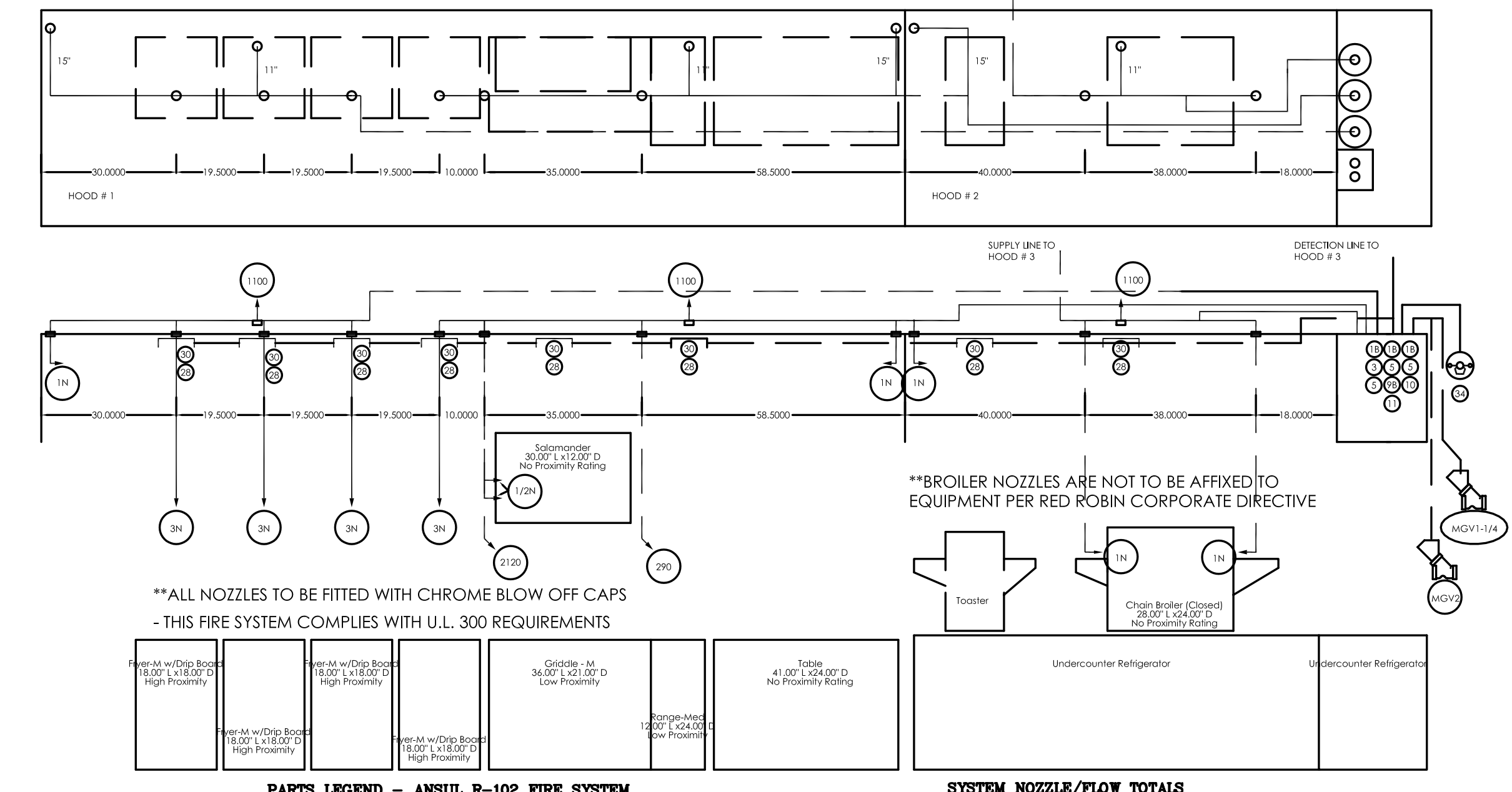
NSF  
NFFA #96  
NSF  
UL 710 & ULC710 STANDARDS  
E.T.L. LISTED 3054804-001



PLAN VIEW - 16' 0" LONG MODEL 4524ND-PSP-F WITH ADD-ON PSP SUPPLY PLENUM  
ESTIMATED WEIGHT (LBS.) 980

PLAN VIEW - 8' 0" LONG MODEL 4524ND-PSP-F WITH ADD-ON PSP SUPPLY PLENUM  
ESTIMATED WEIGHT (LBS.) 540

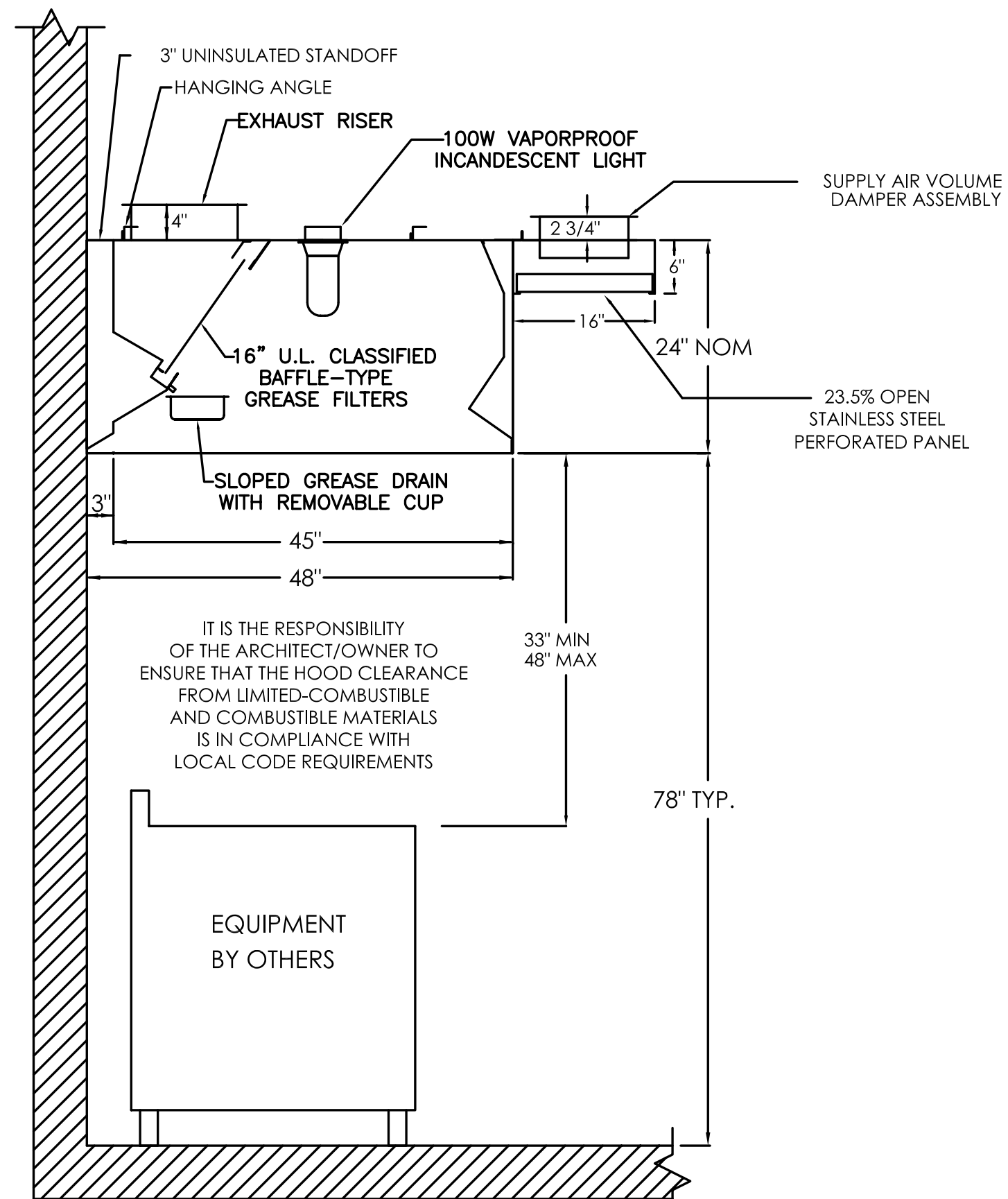
- FIRE SYSTEM COMPLIES WITH ALL U.L. 300 REQUIREMENTS  
NOTE: FIRE SUPPRESSION SYSTEM IS PROVIDED BY CAPTIVEAIRE AS PART OF THE HOOD PACKAGE.



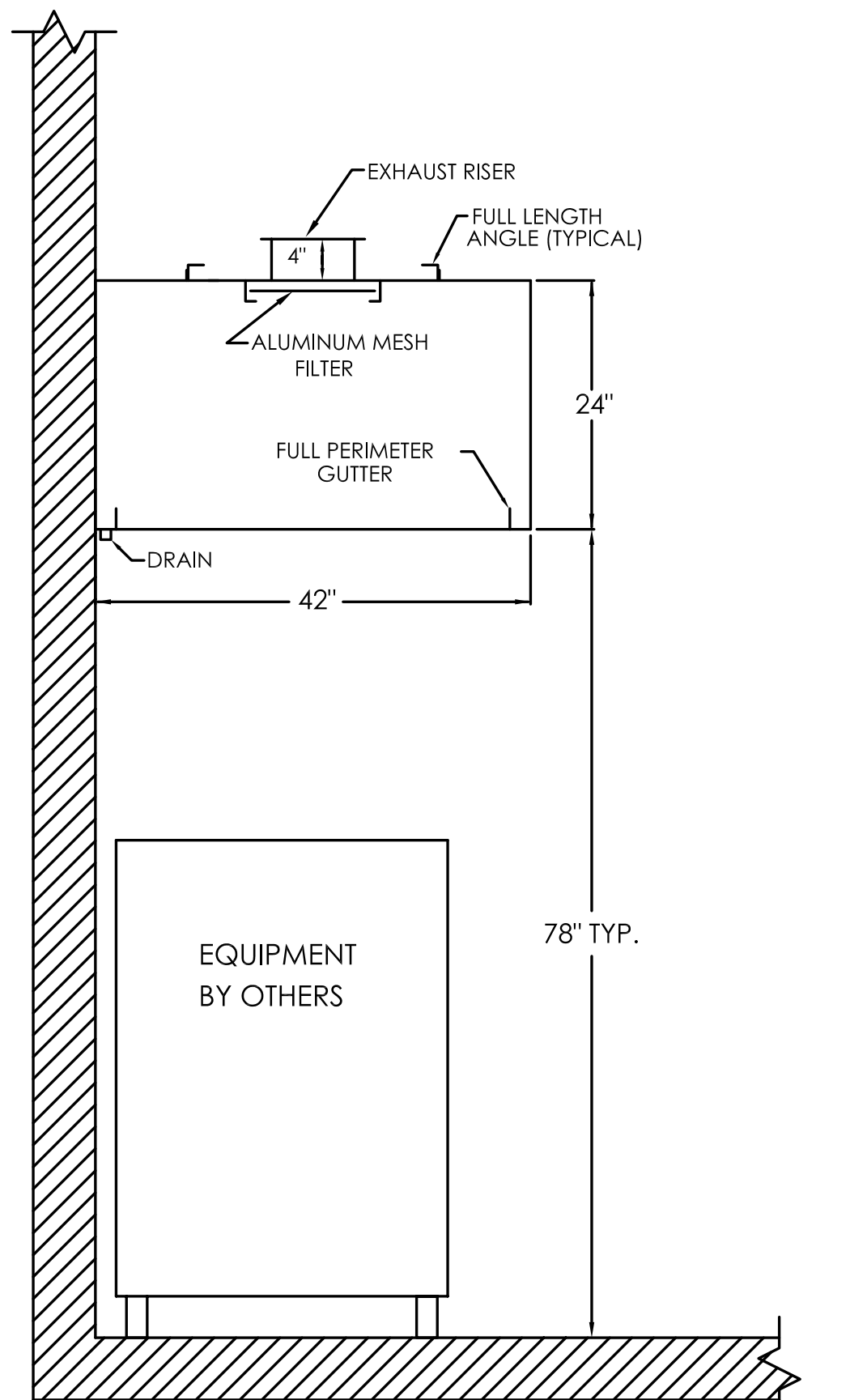
- PARTS LEGEND - ANSUL R-102 FIRE SYSTEM**
- |      |   |      |                            |
|------|---|------|----------------------------|
| 15   | 1 GAL. TANK   | 33   | NOZZLE ASSEMBLY (419338)   |
| 3    | ONEM REGULATED RELEASE ANSULX LIQUID AGENT (3 GAL.) | 2120 | NOZZLE ASSEMBLY (419343)   |
| 98   | DOUBLE TANK CARTRIDGE                               | 290  | NOZZLE ASSEMBLY (419342)   |
| 10   | TEST LINK   | 28   | DETECTOR BRACKET           |
| 11   | DOUBLE MICROSWITCH                                  | 29   | LOW TEMP FUSIBLE LINK      |
| 1160 | DUCT NOZZLE (419331)                                | 30   | HIGH TEMP FUSIBLE LINK     |
| 2W   | DUCT NOZZLE (419332)                                | ANOV | MECHANICAL GAS VALVE       |
| 1N   | NOZZLE ASSEMBLY (419335)                            | 34   | REMOTE MANUAL PULL STATION |
| 1/2H | NOZZLE ASSEMBLY (419334)                            | 5    | SWIVEL ADAPTOR             |
- SYSTEM NOZZLE/FLOW POINTS**
- |      |   |
|------|---|
| (6)  | 1 FLOW POINT 1N NOZZLES = 6 FLOW POINTS     |
| (4)  | 1 FLOW POINT 100 NOZZLES = 4 FLOW POINTS    |
| (11) | 1/2 FLOW POINT 1/2N NOZZLES = 1 FLOW POINTS |
| (5)  | 3 FLOW POINT 3N NOZZLES = 15 FLOW POINTS    |
| (1)  | 2 FLOW POINT 2N NOZZLES = 2 FLOW POINTS     |
| (1)  | 2 FLOW POINT 2/2 NOZZLES = 2 FLOW POINTS    |
- SYSTEM DESIGN FLOW TOTALS = 30 FLOW POINTS  
MAXIMUM SYSTEM FLOW = 33 FLOW POINTS

3 EXHAUST HOODS 1, 2, 3, AND 4  
SCALE: NONE

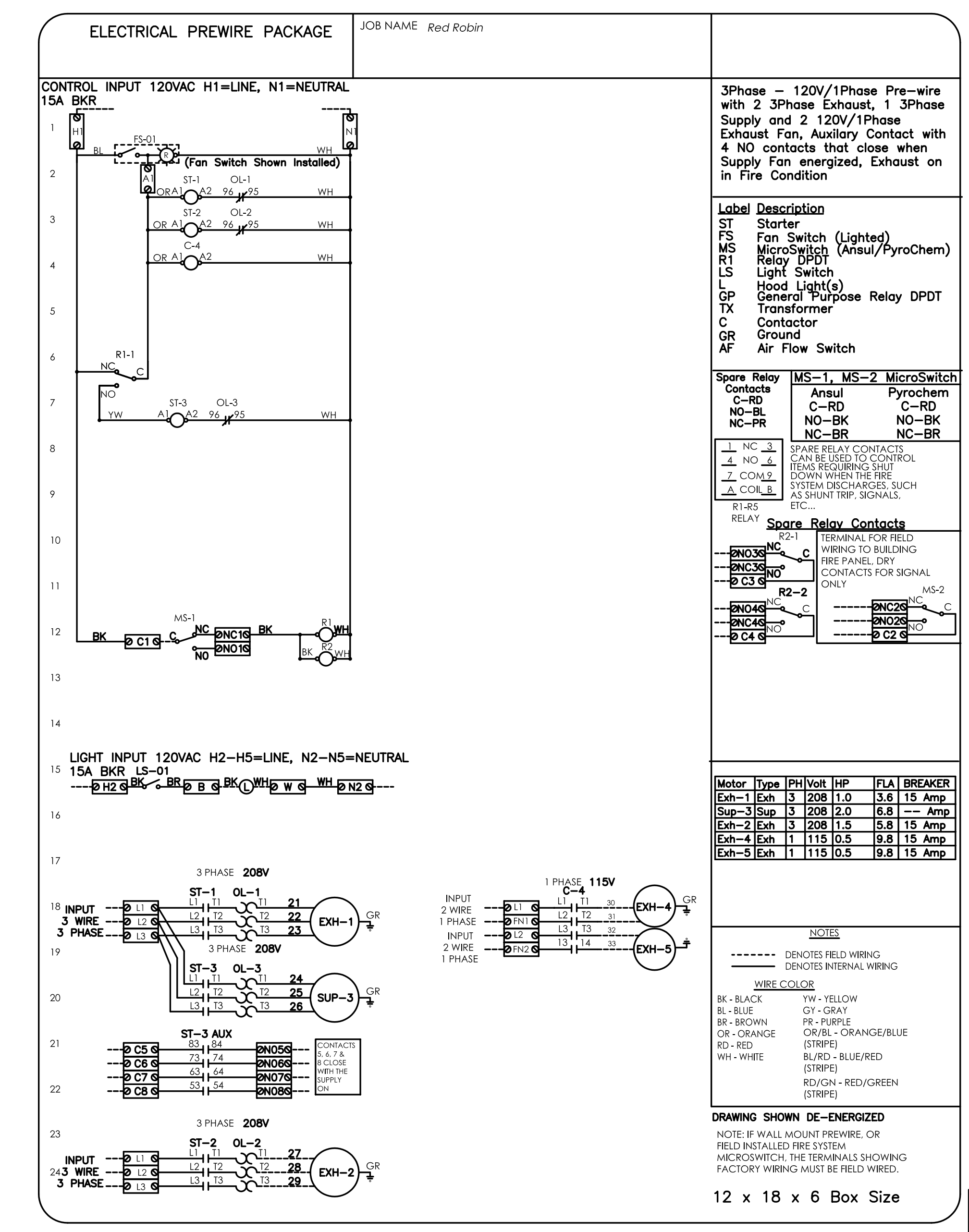
1 FIRE SUPPRESSION PIPING LAYOUT AND NOTES  
SCALE: NONE



SECTION VIEW OF HOODS 1, 2, AND 3  
NOT TO SCALE



SECTION VIEW OF HOOD 4  
NOT TO SCALE



2 HOOD AND FAN INTERLOCK  
SCALE: NONE

4 SECTION VIEWS OF HOODS 1, 2, 3, AND 4  
SCALE: NONE

