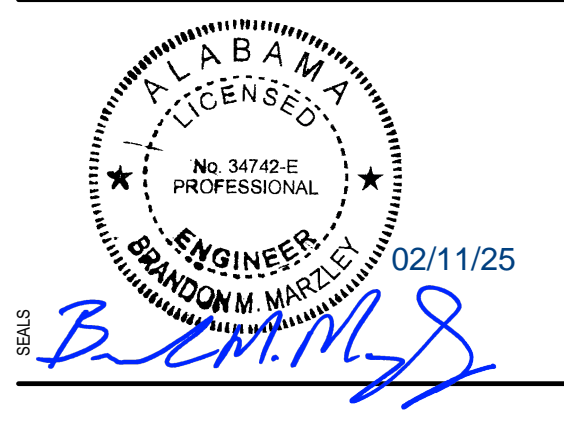


PRIORITY/CONSTRUCTION

- THE FOLLOWING IS THE ORDER OF PRIORITY FOR CONSTRUCTION SPACE:
 a. FIRST: DUCTWORK
 b. SECOND: FIRE PROTECTION PIPING
 c. THIRD: ANY PIPING WITH SLOPE REQUIREMENTS
 d. FOURTH: OTHER PIPING
 e. FIFTH: CONDUIT

MECHANICAL GENERAL NOTES:

- SHEET KEYNOTES**
- ROOFTOP UNIT ON FULL PERIMETER ROOF CURB. REFER TO SHEET MP200 FOR ADDITIONAL INFORMATION.
 - SUPPLY AIR DUCT FROM UNIT ON ROOF. TRANSITION TO DUCT SIZE AS INDICATED WITHIN THE ROOF CURB.
 - RETURN AIR DUCT FROM UNIT ON ROOF. TRANSITION TO DUCT SIZE AS INDICATED WITHIN THE ROOF CURB.
 - DUCTWORK LOCATED ABOVE FINISHED CEILING. COORDINATE W/ STRUCTURE.
 - MAINTAIN NEC CLEARANCE TO ELECTRICAL GEAR, TYPICAL.
 - PROVIDE MANUAL BALANCING DAMPER, TYPICAL.
 - EXPOSED RECTANGULAR DUCTWORK TO BE INTERNALLY LINED.
 - RESTROOM EXHAUST FAN ON ROOF. REFER TO SHEET MP200 FOR ADDITIONAL INFORMATION.
 - RESTROOM EXHAUST DUCT UP TO FAN ON ROOF. COORDINATE W/ STRUCTURE.
 - SLOPE DISHWASHER EXHAUST DOWN @ 1/4" PER FT TO HOOD.
 - MAKE-UP AIR CONNECTIONS TO SUPPLY AIR PLENUM IN FRONT OF HOOD. REFER TO HOOD DRAWINGS, TYPICAL.
 - KITCHEN HOOD EXHAUST FAN ON ROOF. REFER TO SHEET MP200 AND HOOD DRAWINGS FOR ADDITIONAL INFORMATION.
 - KITCHEN HOOD EXHAUST DUCT UP TO FAN ON ROOF. COORDINATE WITH STRUCTURE. DUCT SHALL BE ENCAPSULATED WITH EXHAUST DUCT WRAP IF REQUIRED BY CODE. REFER TO DETAIL ON SHEET M201. DUCT SHALL BE PRE-FAB GREASE DUCT.
 - KITCHEN EXHAUST HOOD DUCT DOWN TO HOOD COLLAR. WELD DUCT ELBOW TO HOOD COLLAR. TYPICAL. REFER TO HOOD DRAWINGS.
 - HOOD CONTROL CABINET, REF HOOD DRAWINGS.
 - KITCHEN EXHAUST HOOD FURNISHED BY OWNER, INSTALLED BY MECHANICAL CONTRACTOR TYPICAL OF 4. REFER TO SHEET MH101 THRU MH106.
 - DISHWASHER EXHAUST DUCT UP TO FAN ON ROOF. DUCTWORK SHALL BE STAINLESS STEEL SEALED LIQUID TIGHT. OFFSET TO HOOD COLLAR.
 - PROVIDE COMBINATION TEMPERATURE & HUMIDITY SENSOR ON WALL @ 72" AFF. INTERLOCK W/ THERMOSTAT IN OFFICE.
 - PERFORATED GRILLE PER DETAIL B4 ON SHEET M201. TYPICAL FOR THIS DEVICE.
 - DISHWASHER HOOD FURNISHED BY OWNER AND INSTALLED BY THE MECHANICAL CONTRACTOR. REFER TO SHEETS MH101 THRU MH106.
 - T-STATS FOR REMOTE SENSORS. REFER TO DETAIL ON SHEET M401 AND ELEVATION ON E102.
 - REFER TO PLUMBING DRAWINGS FOR COMBUSTION VENTING OF WATER HEATERS.
 - DUCT MOUNTED SMOKE DETECTOR FOR UNIT SHUT DOWN. DETECTOR SHALL ACTIVATE A VISIBLE & AUDIBLE SUPERVISORY SIGNAL @ A CONSTANTLY ATTENDED LOCATION. TYPICAL.
 - DUCTWORK TO RUN UNDERNEATH ROOF STRUCTURE AS HIGH AS POSSIBLE.
 - SUPPLY AIR CONNECTIONS WITH CONTROL DAMPER TO SUPPLY AIR PLENUM IN FRONT OF HOOD. REFER TO HOOD DRAWINGS, TYPICAL.
 - PROVIDE SPLITTER DAMPER W/ TURNING VANES. TYPICAL.
 - ROOFTOP UNIT SMOKE DETECTOR RESETS. REFER TO ELEVATION ON E102.
 - RETURN AIR GRILLE IN THE UNDERSIDE OF DUCT.
 - PROVIDE THERMOSTAT REMOTE SENSOR ON WALL AT 54" A.F.F. INTERLOCK WITH THERMOSTAT IN OFFICE.
 - MAKE-UP AIR UNIT ON ROOF. INTERLOCK WITH HOOD CONTROLS. REFER TO HOOD DRAWINGS, SHEETS MH101 THRU MH106 AND SHEET MP200 FOR ADDITIONAL INFORMATION.
 - MAKE-UP AIR DUCT UP TO UNIT ON ROOF.
 - RETURN AIR DUCT SHALL BE INTERNALLY LINED, TYPICAL.
 - HOOD UTILITY FIRE SUPPRESSION CABINET MOUNTED AS HIGH AS POSSIBLE WITHIN SPACE. REFER TO HOOD DRAWINGS.
 - PROVIDE AND INSTALL REFRIGERANT LINE SET AND INSULATION TO ASSOCIATED CONDENSING UNIT OUTSIDE. AVOID RUNNING PIPING DIRECTLY OVER ELECTRICAL EQUIPMENT. SEAL WALL PENETRATION WEATHER TIGHT.



BLOOMING BRANDS
OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
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 CULLMAN, AL 35055

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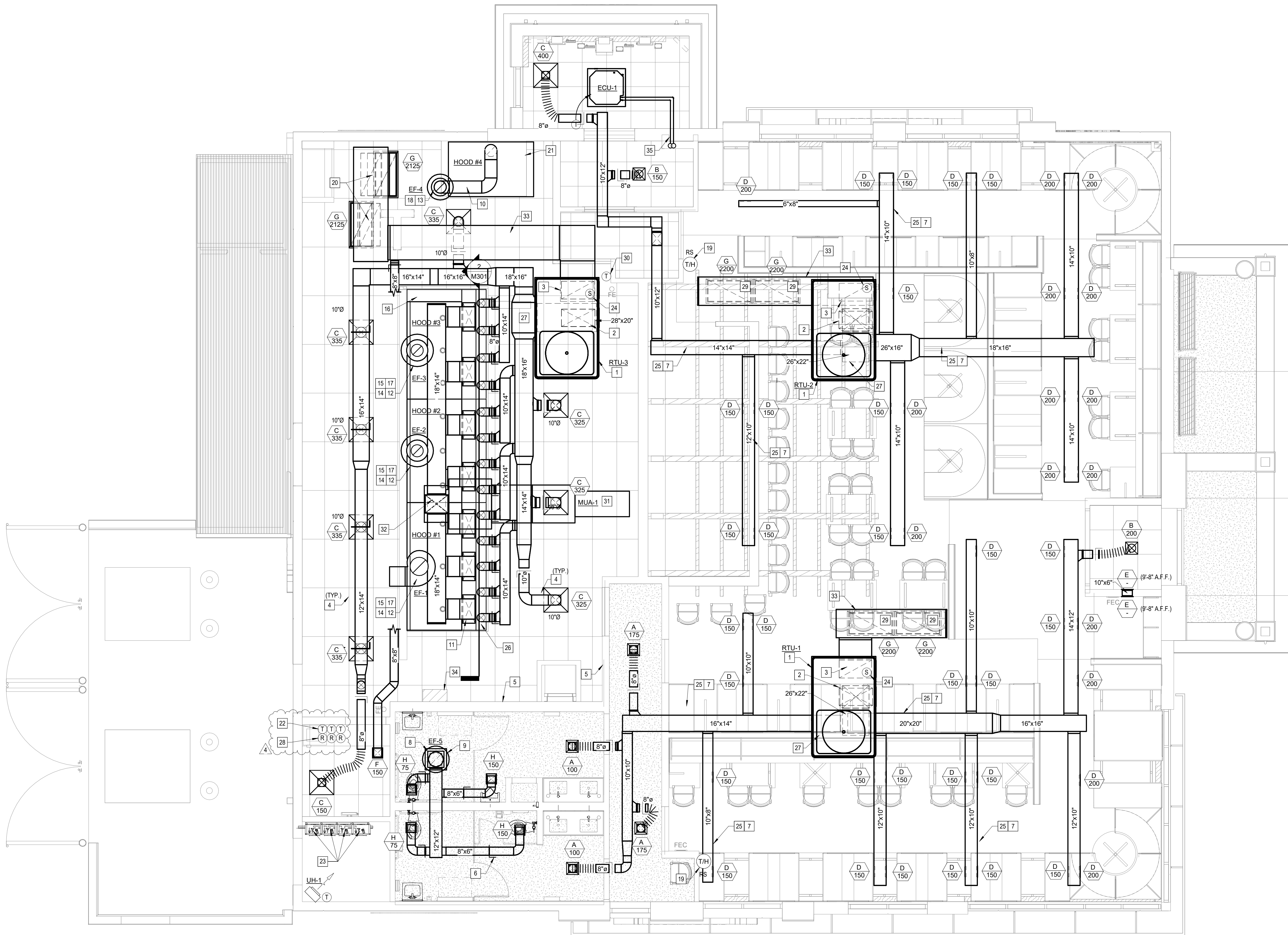
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1 09/06/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
2 11/01/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
4 02/10/2025	ISSUED FOR CONSTRUCTION

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
MECHANICAL PLAN

SHEET NO. PROJ. NO.
 2024231.06

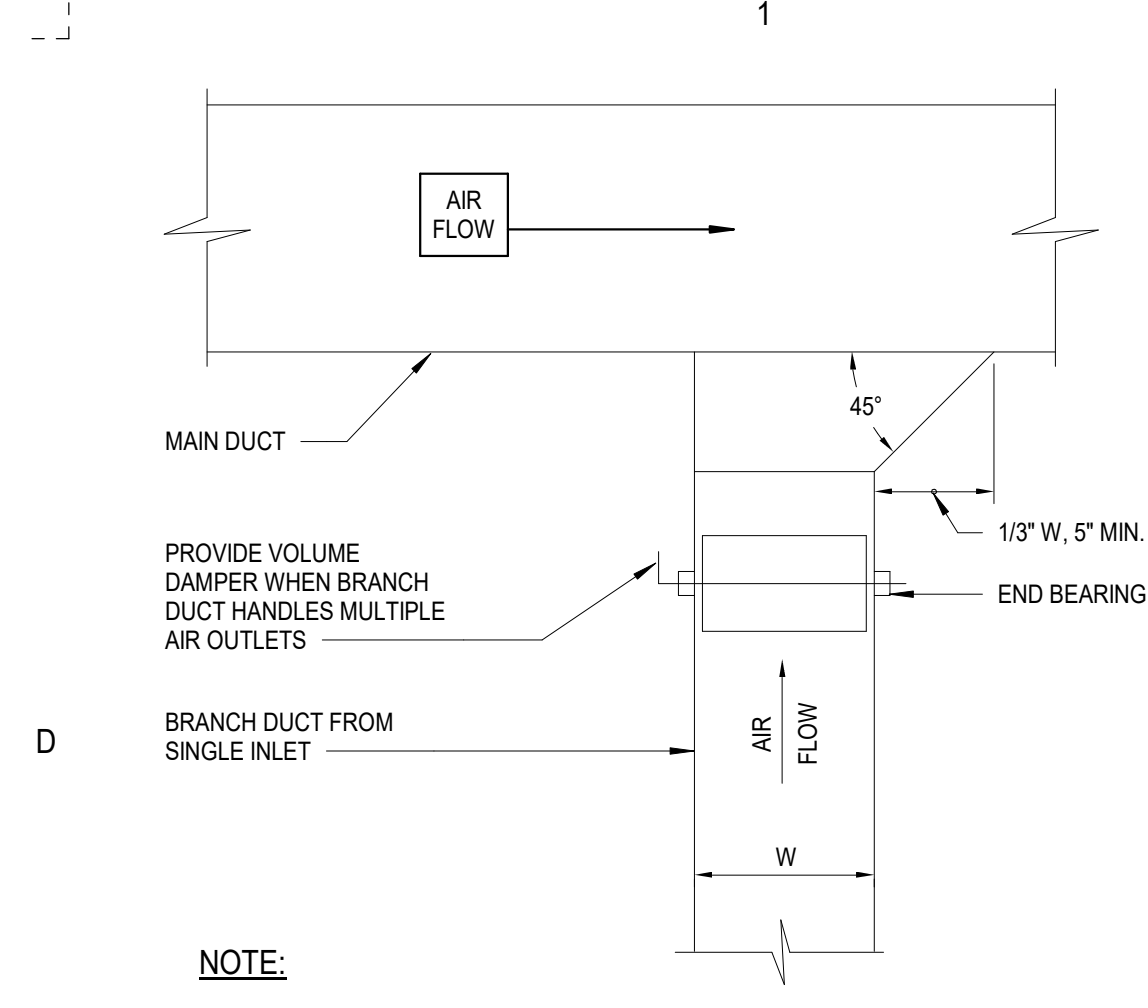
M101



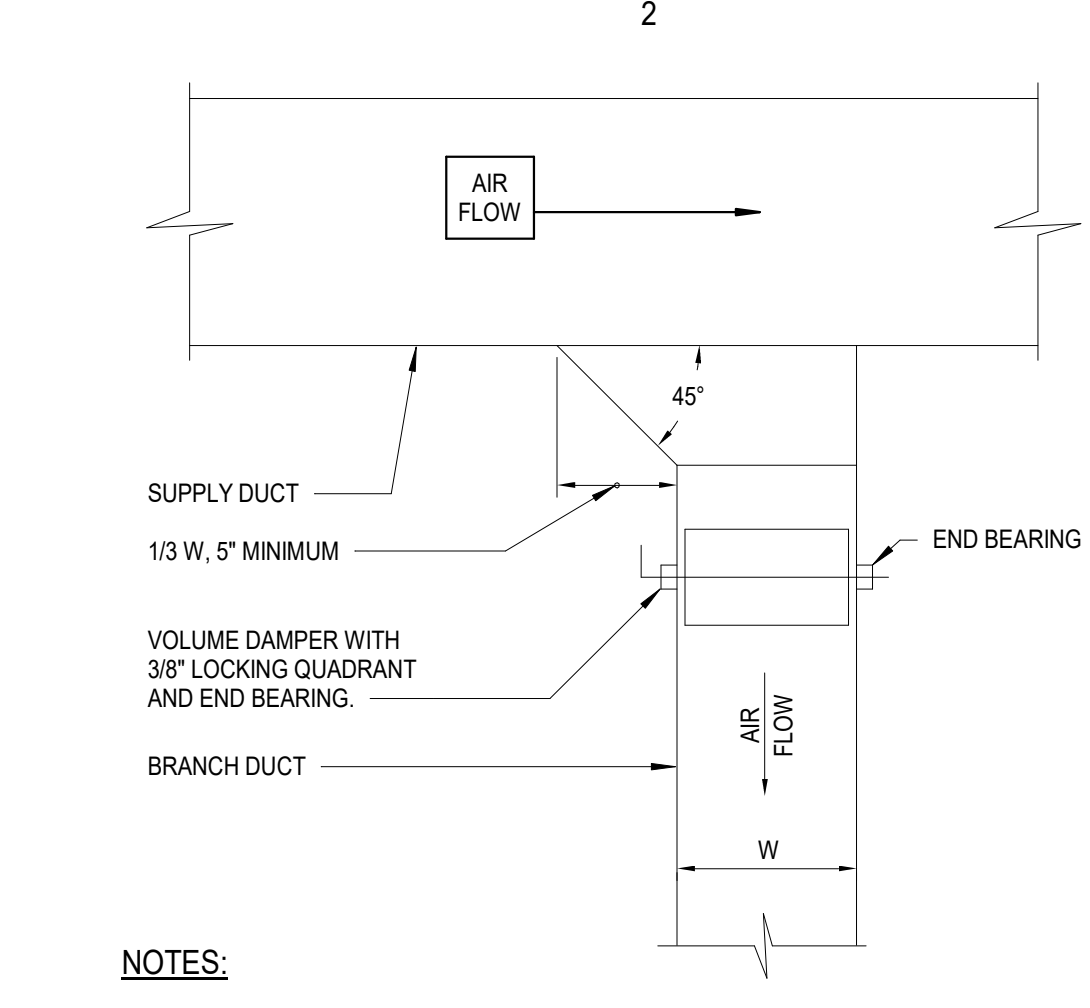
MECHANICAL FLOOR PLAN
 1/4" = 1'-0"



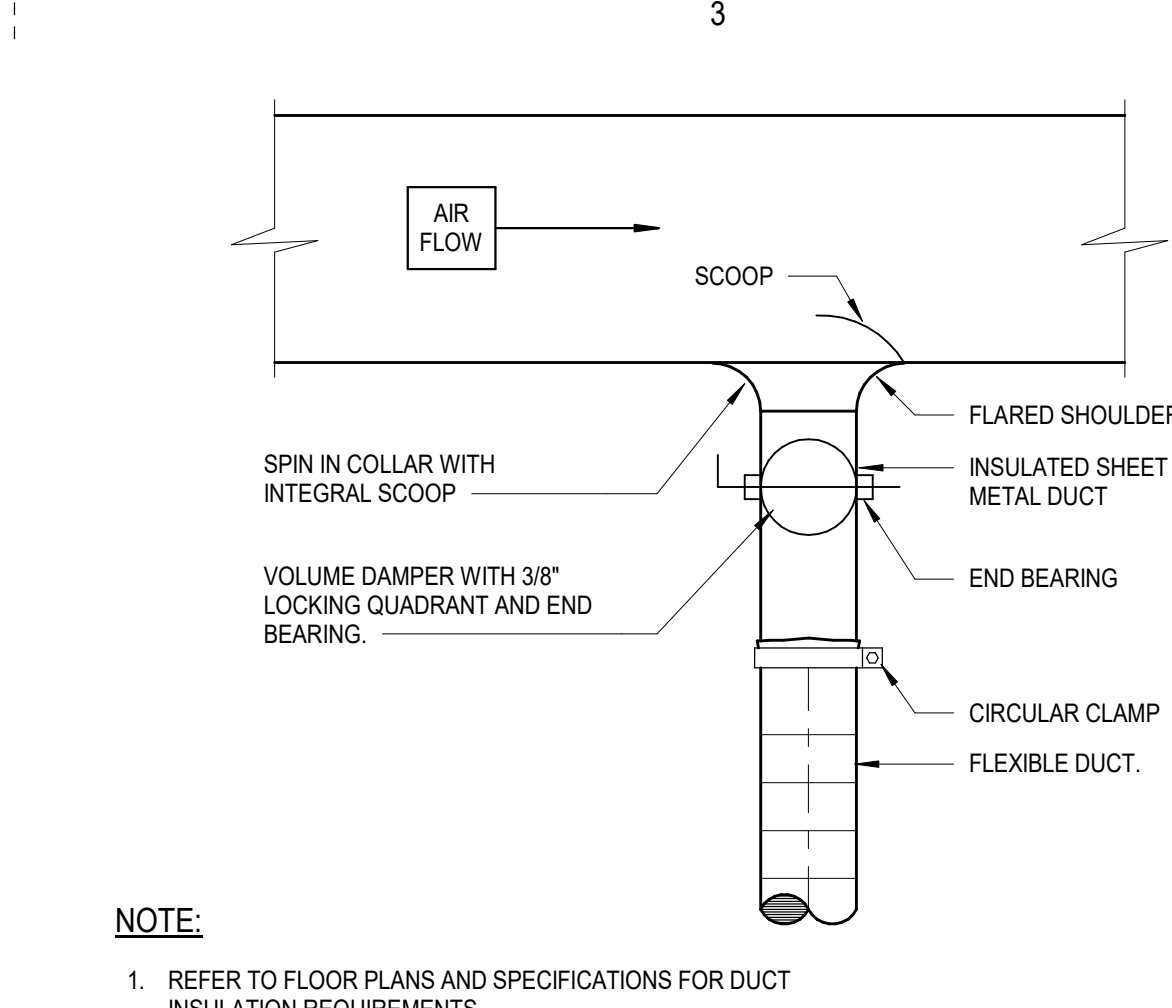
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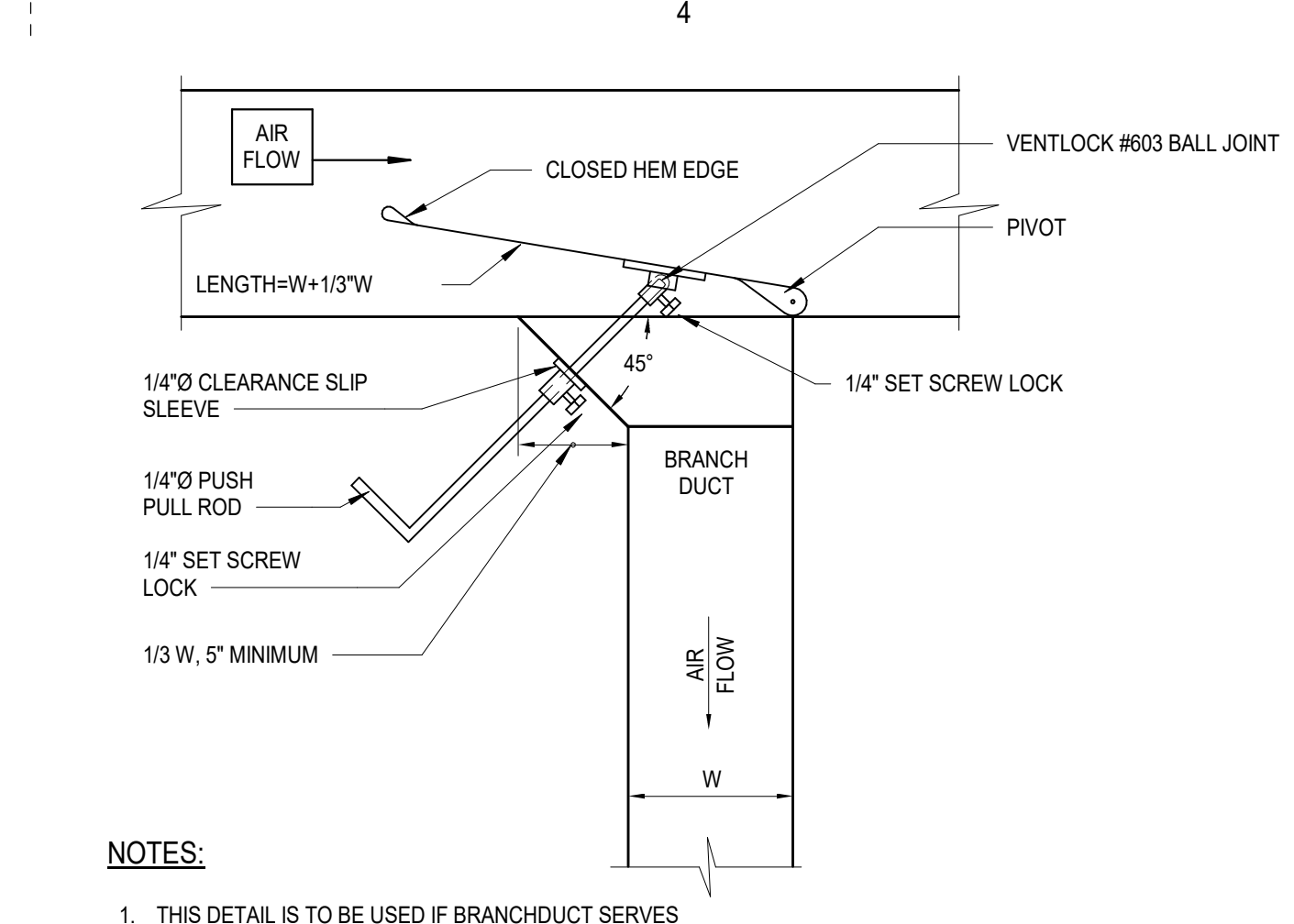
D1 RECTANGULAR RETURN DUCT DETAIL
M201 NTS



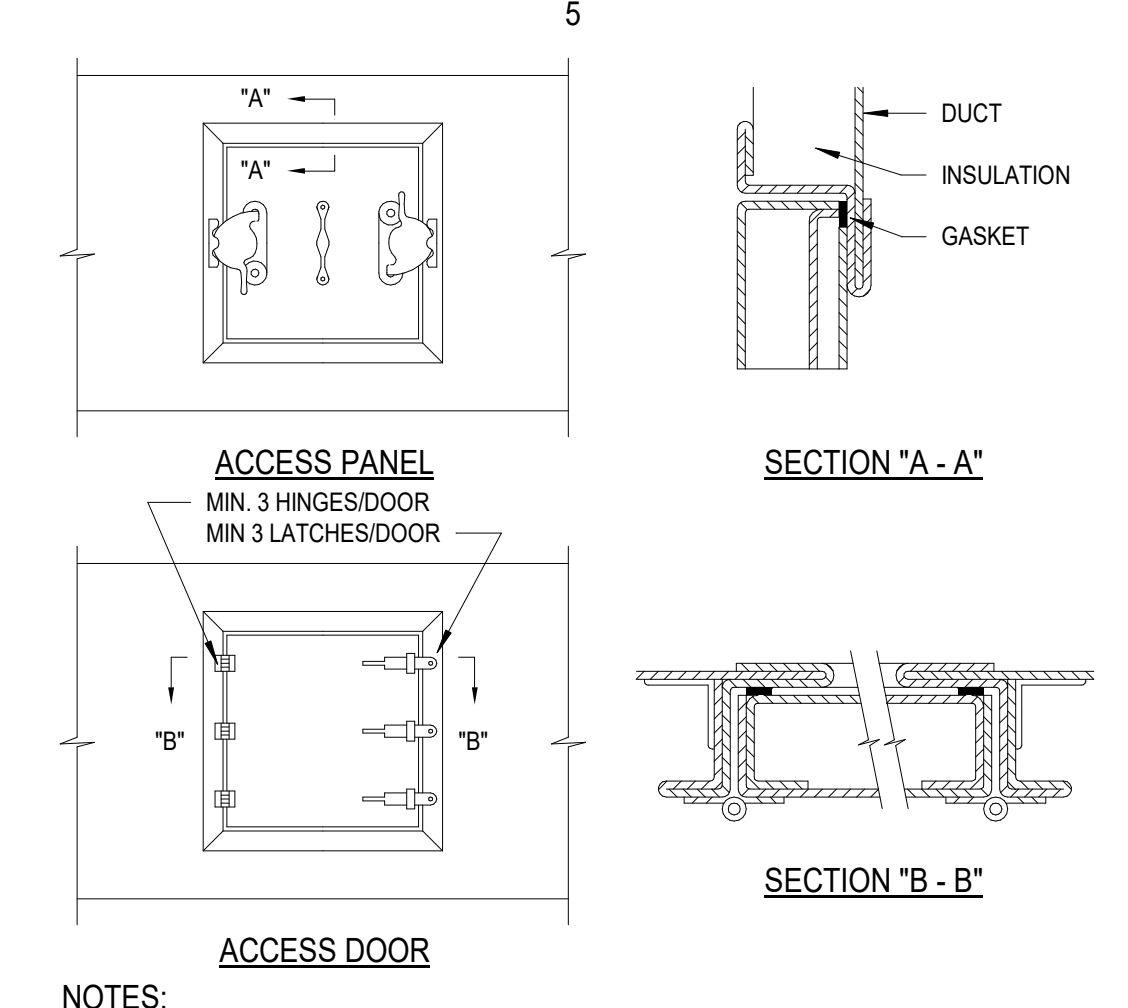
D2 SQUARE DUCT DETAIL
M201 NTS



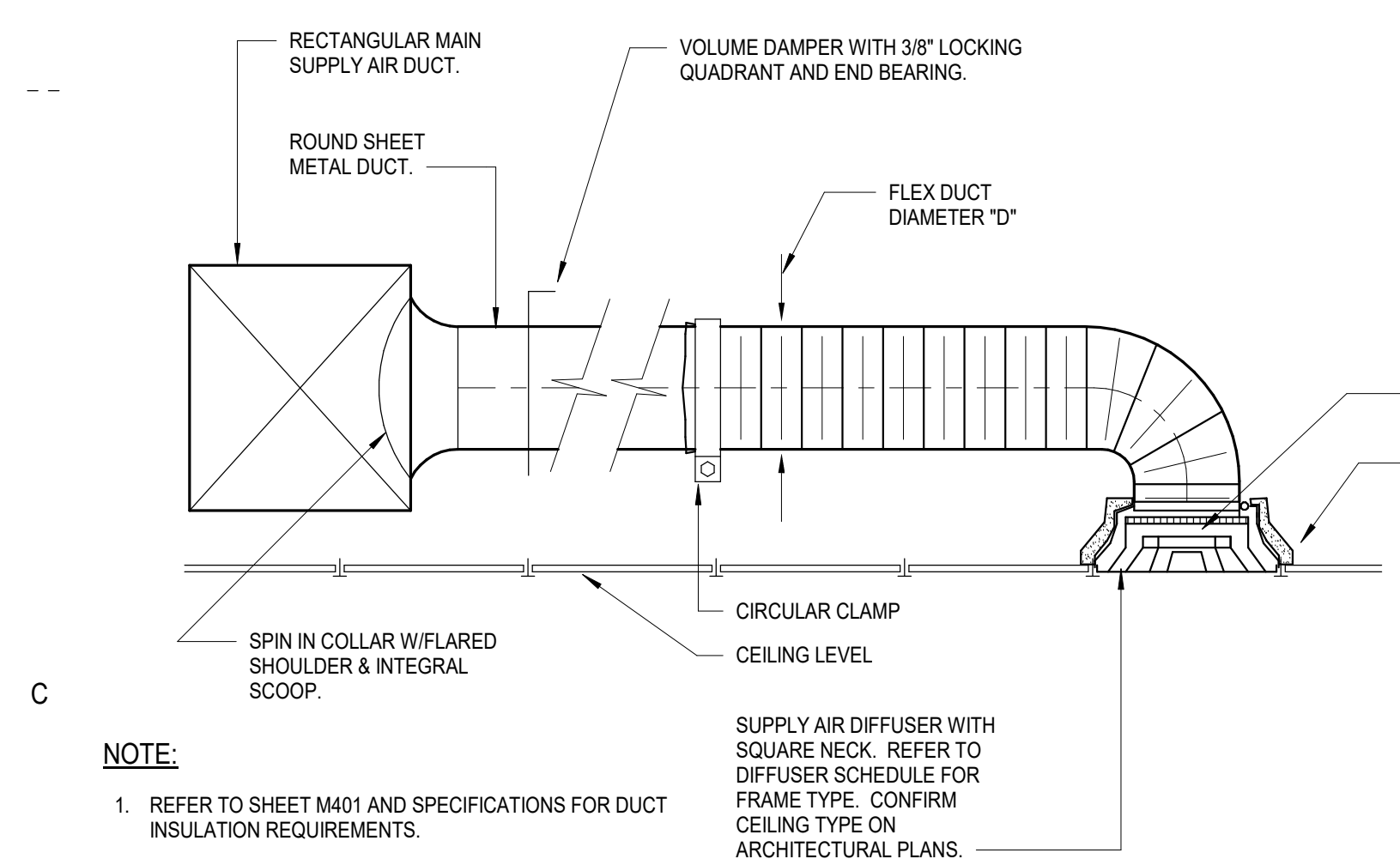
D3 ROUND DUCT DETAIL
M201 NTS



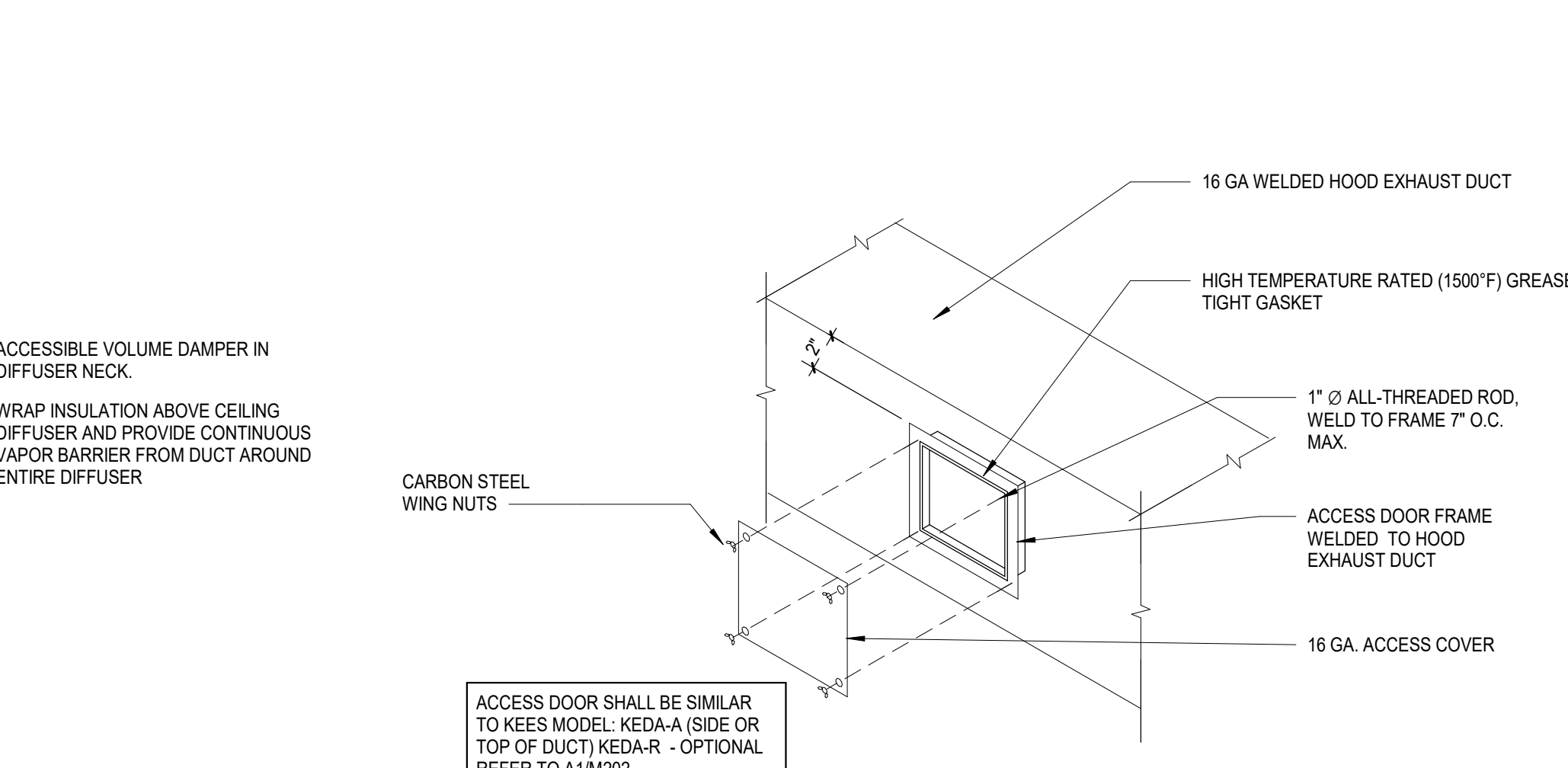
D4 RECTANGULAR SUPPLY DUCT W/CLINCH COLLAR
M201 NTS



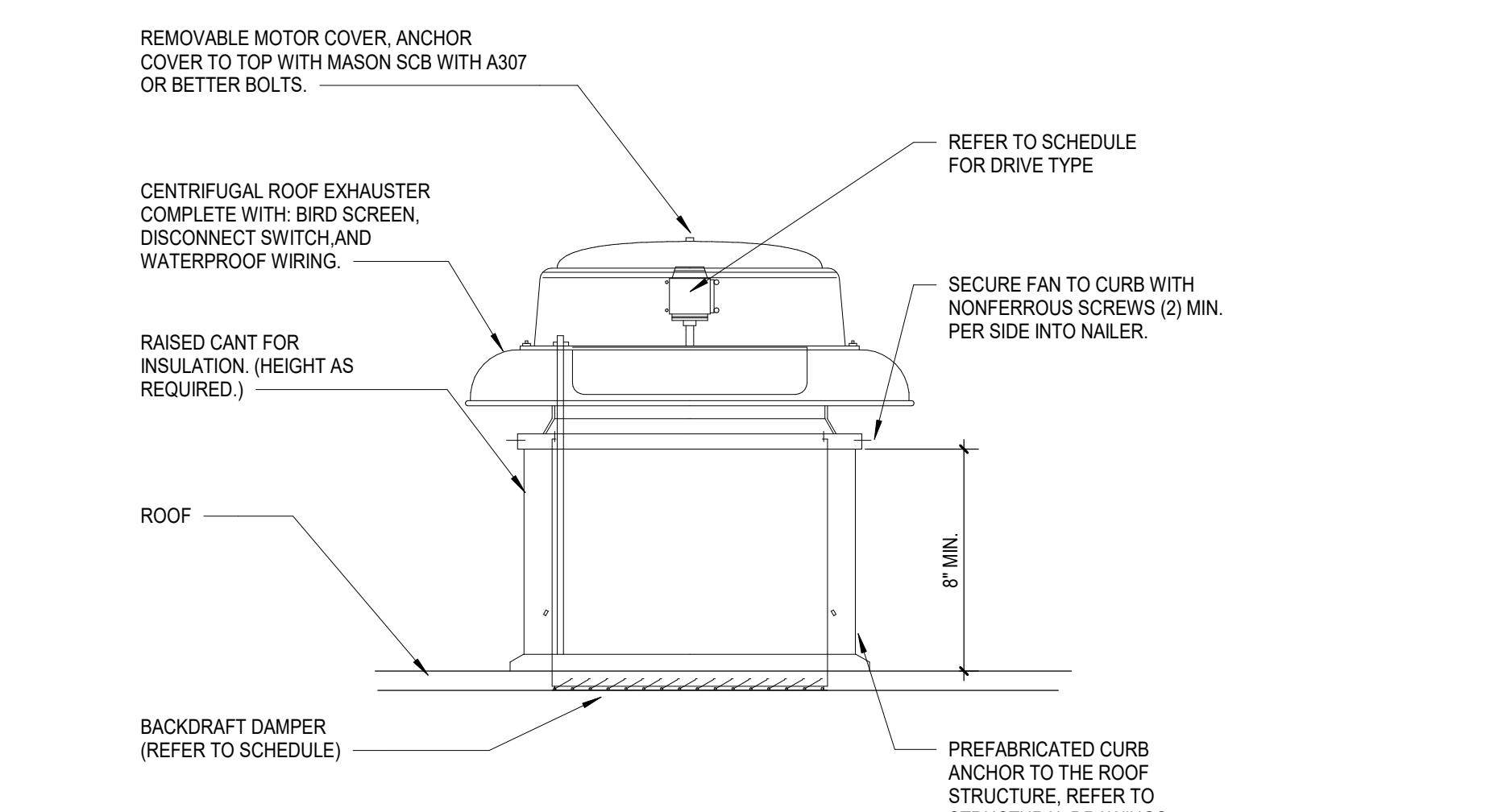
D5 NON-GREASE DUCT ACCESS DOOR
M201 NTS



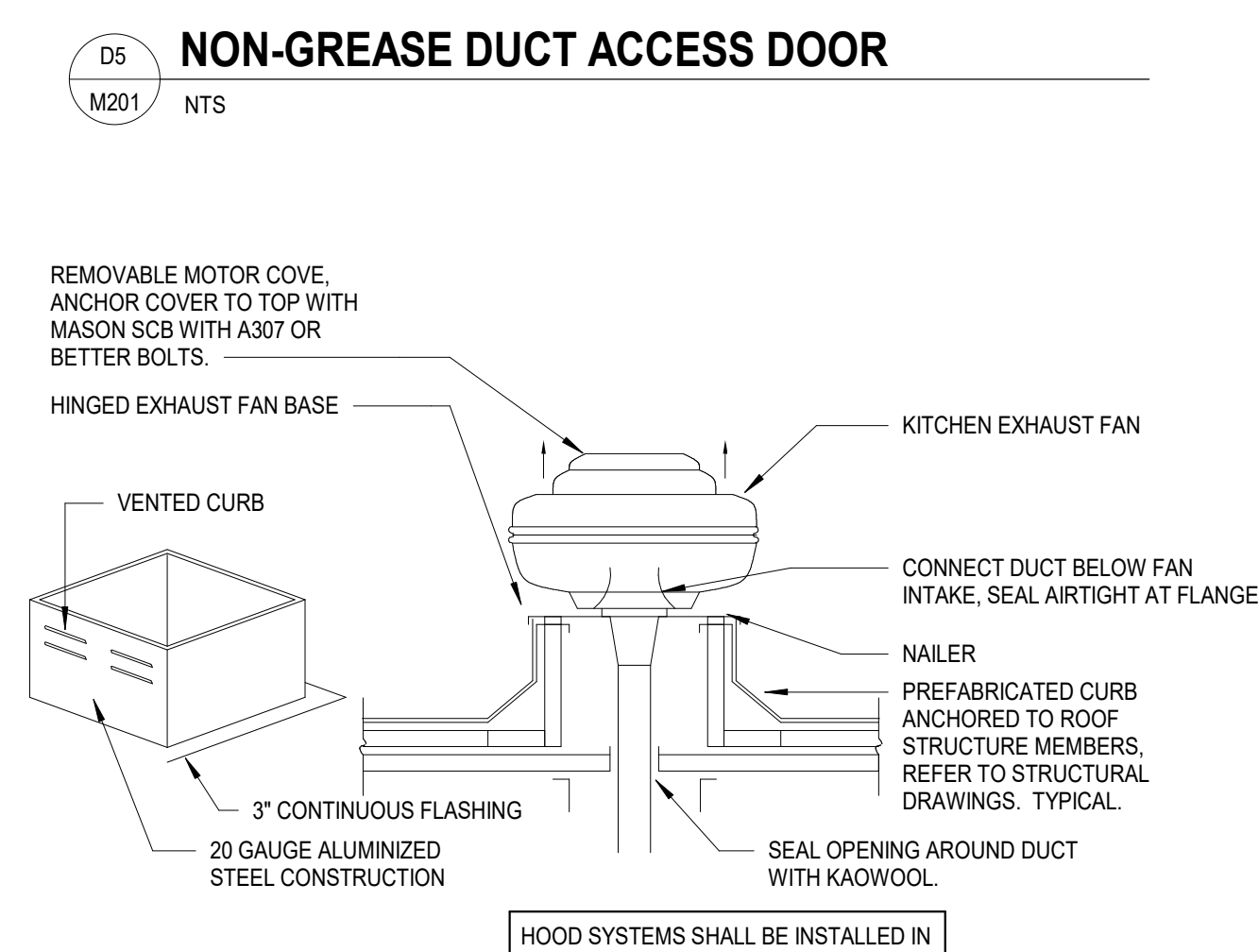
C1 SUPPLY AIR DIFFUSER DETAIL
M201 NTS



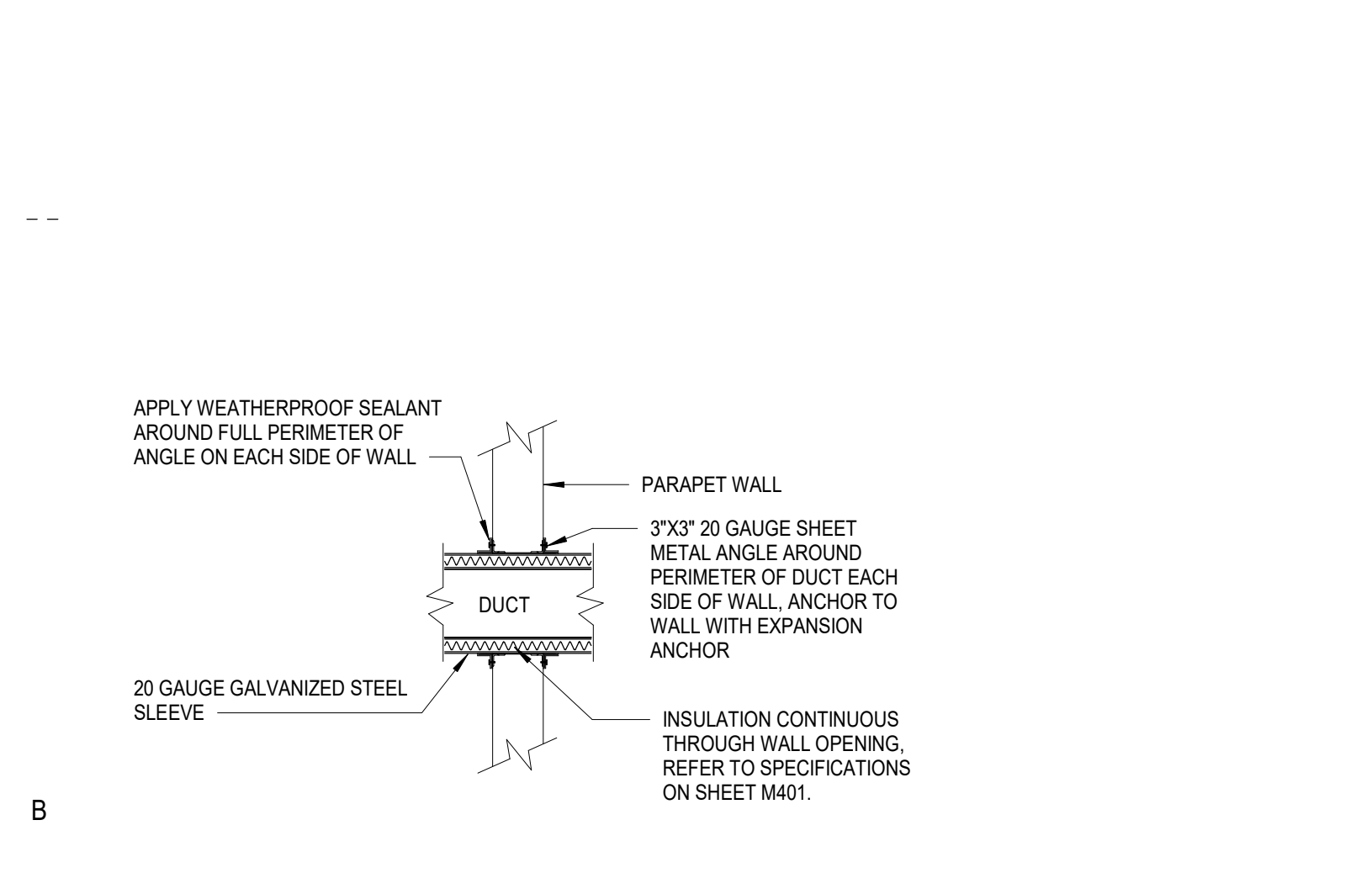
C2 HOOD EXHAUST DUCT CLEANOUT
M201 NTS



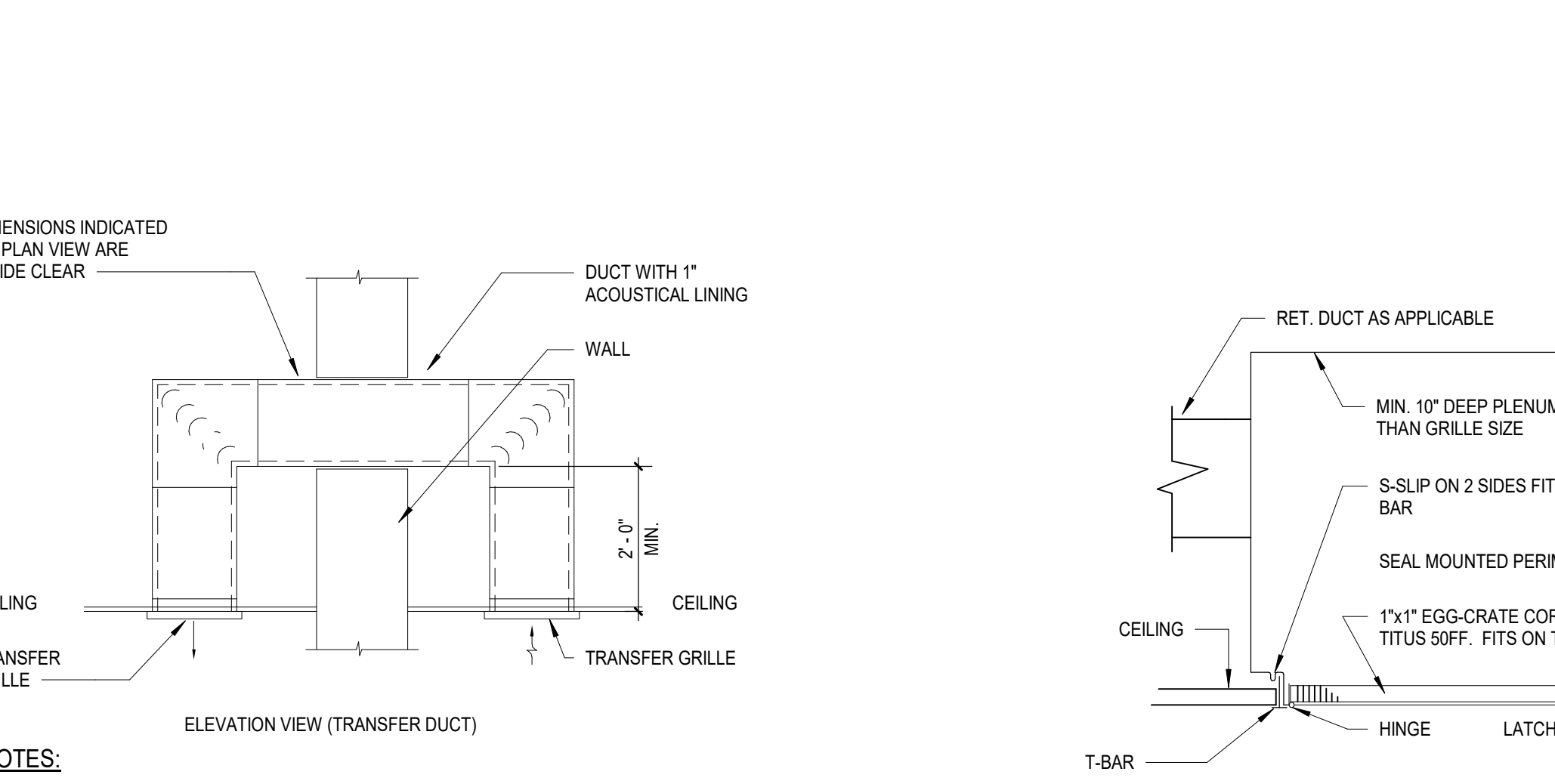
C3 CENTRIFUGAL ROOF EXHAUST
M201 NTS



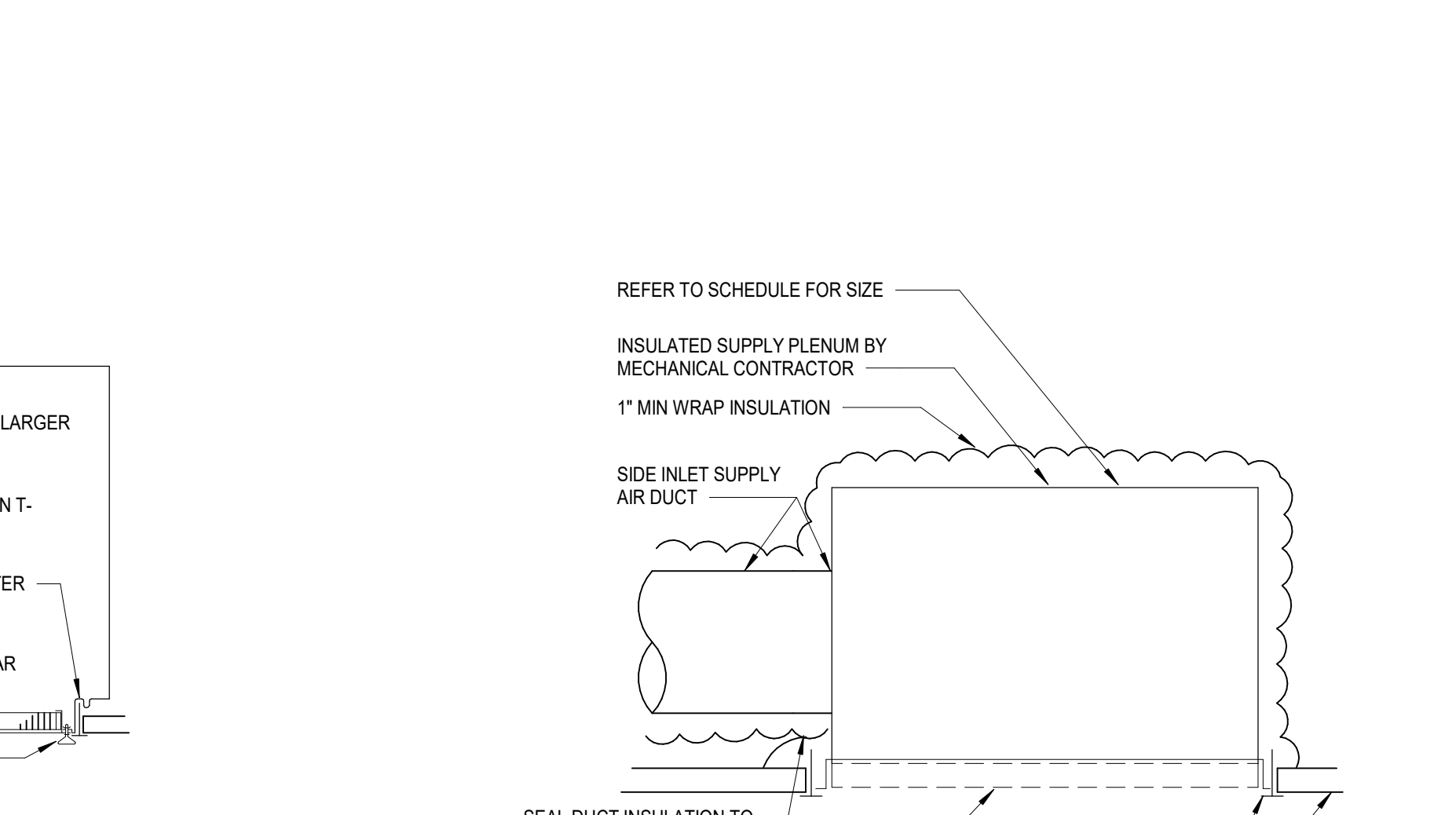
C4 KITCHEN HOOD EXHAUST FAN
M201 NTS



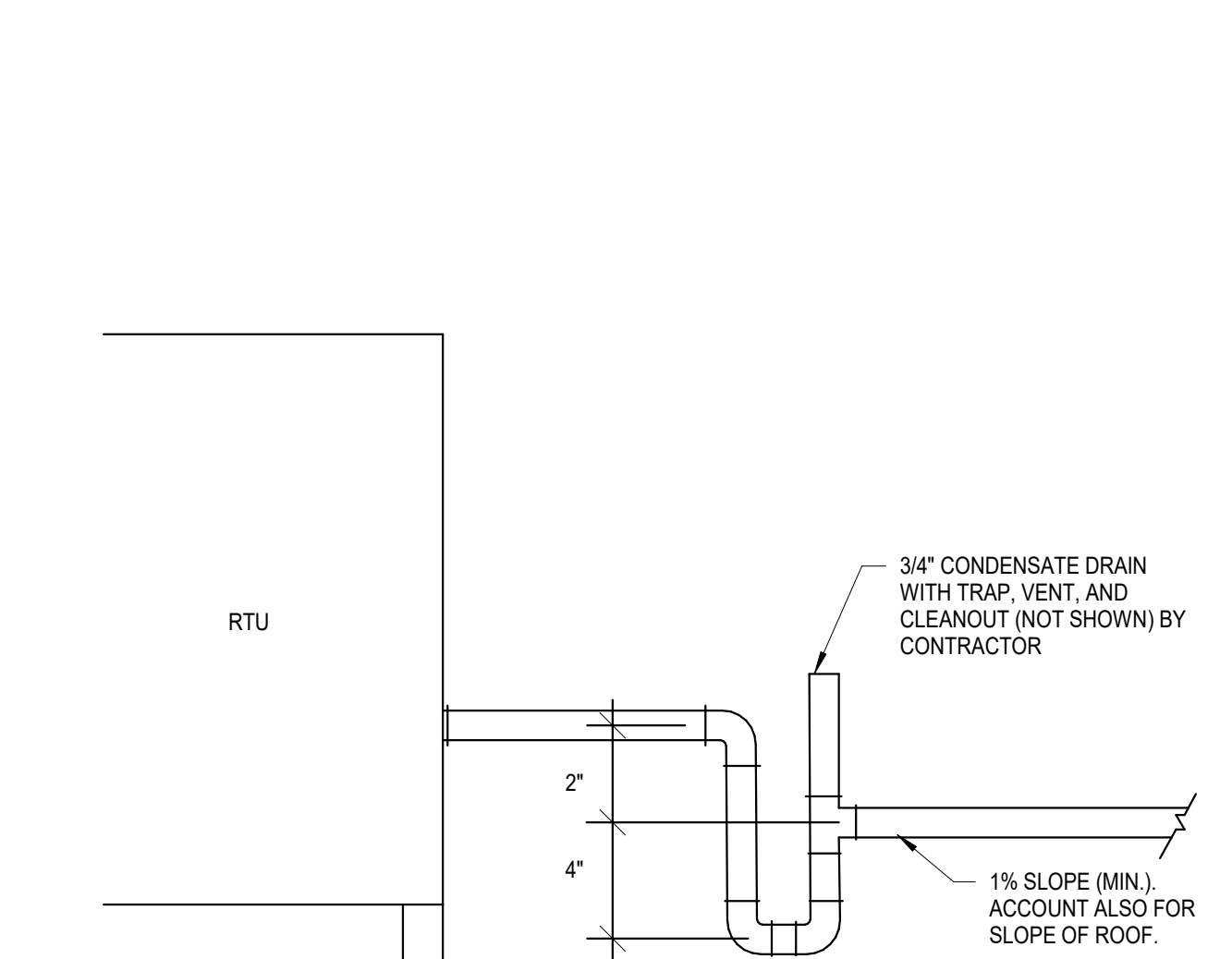
B1 DUCT PENETRATION DETAIL (INTERIOR)
M201 NTS



B2 TRANSFER GRILL DETAIL
M201 NTS



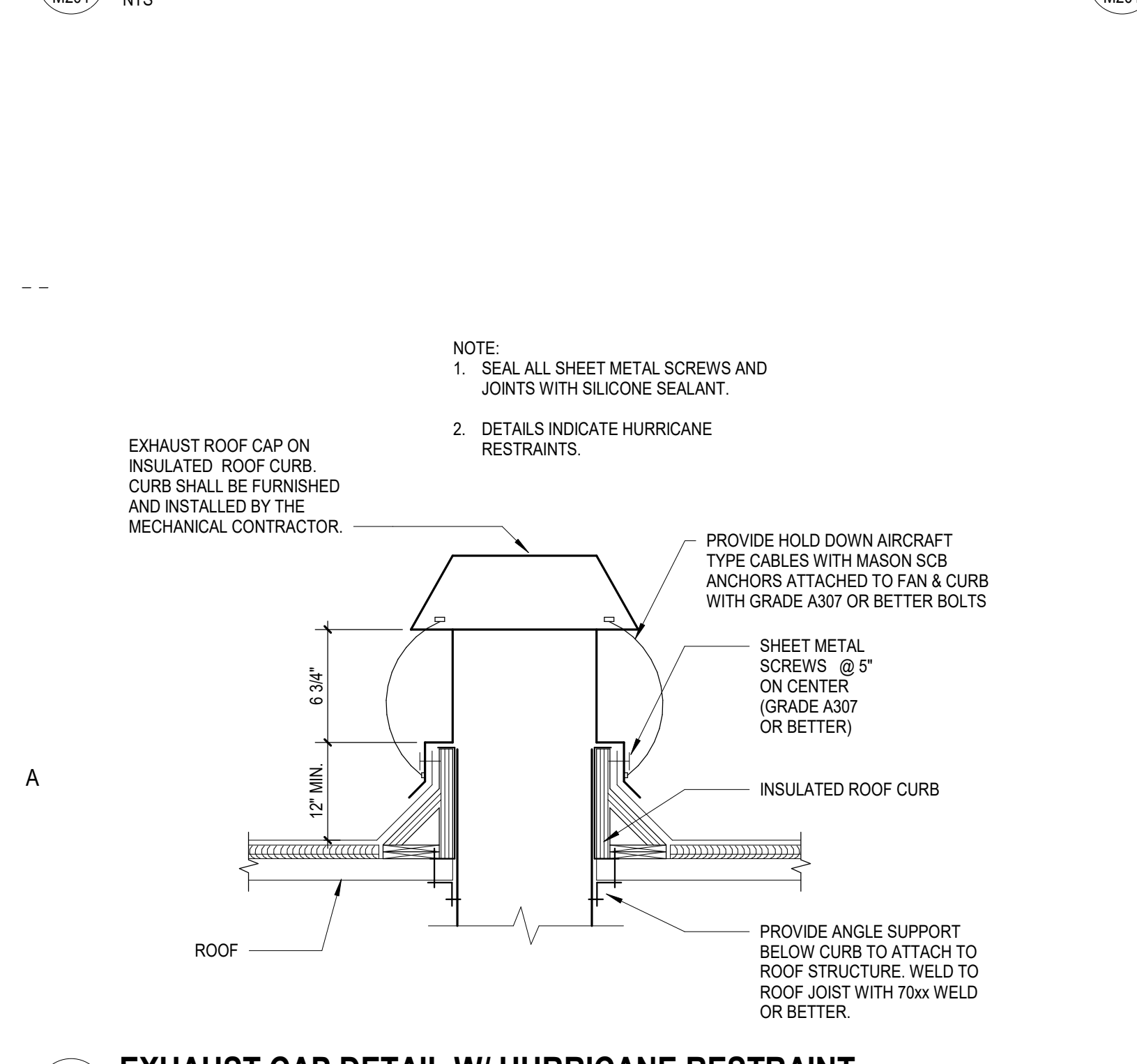
B3 RETURN / EXHAUST GRILLE
M201 NTS



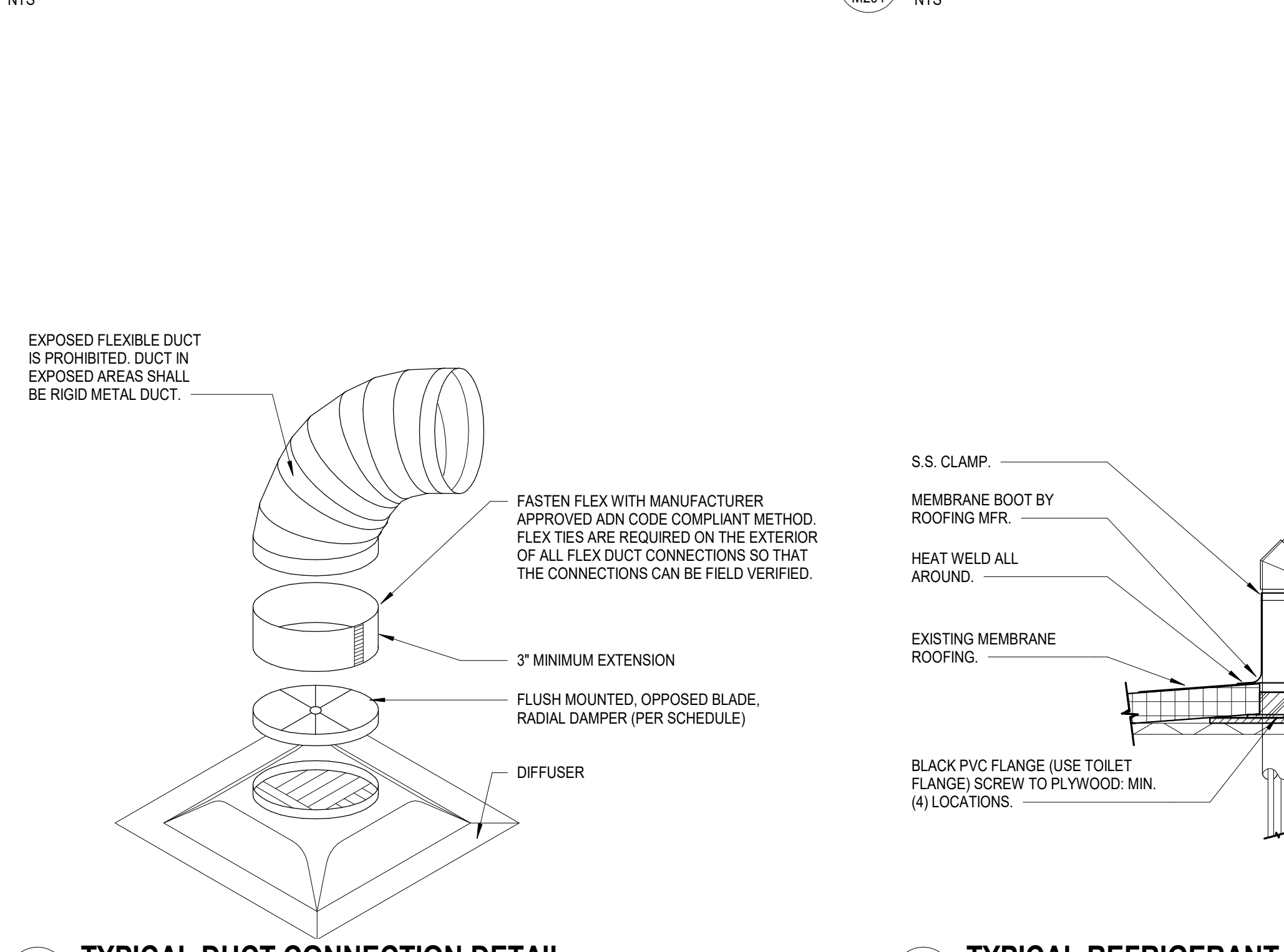
B4 PERFORATED FACE SUPPLY GRILLE DETAIL
M201 NTS



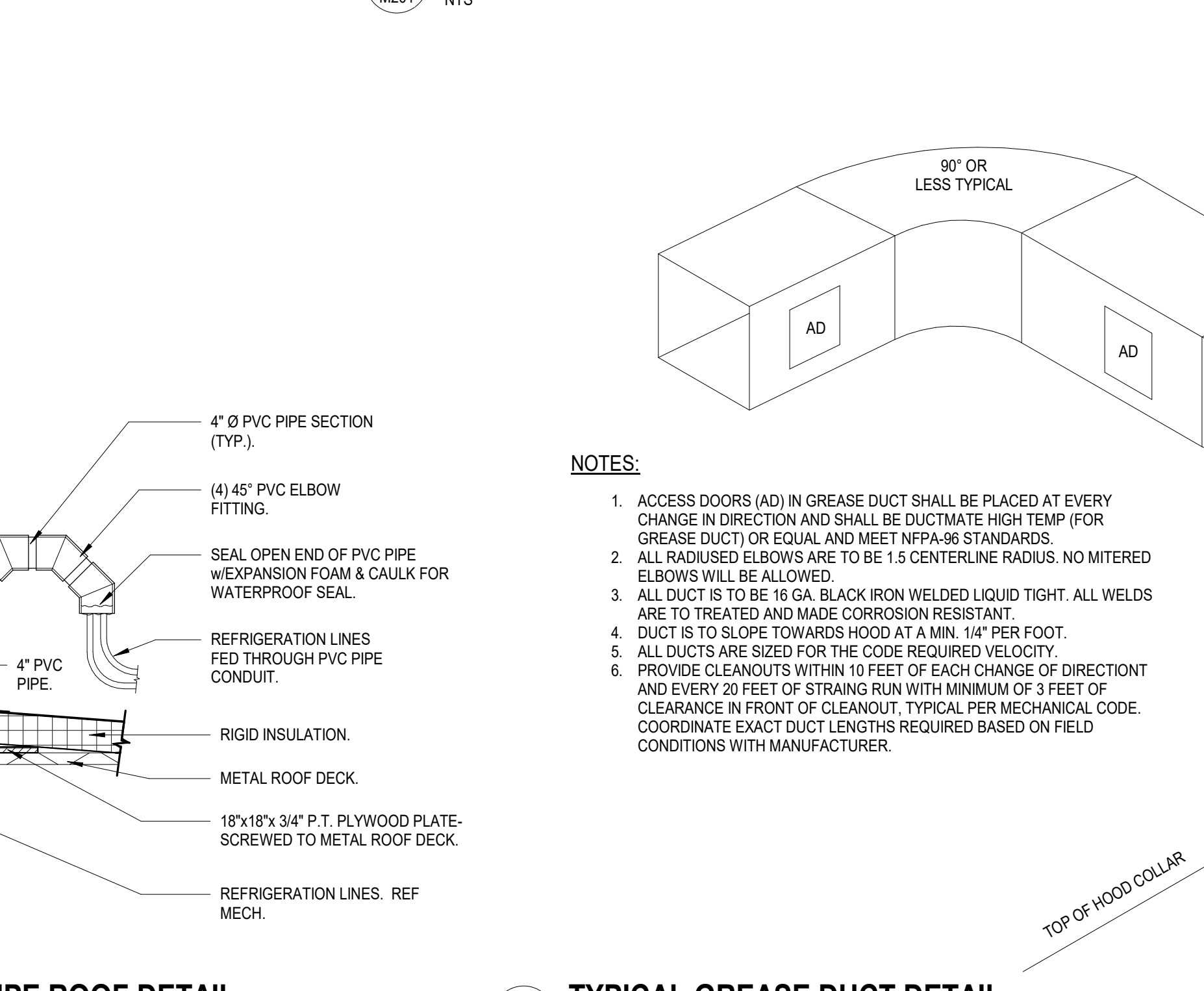
B5 CONDENSATE DRAIN DETAIL
M201 NTS



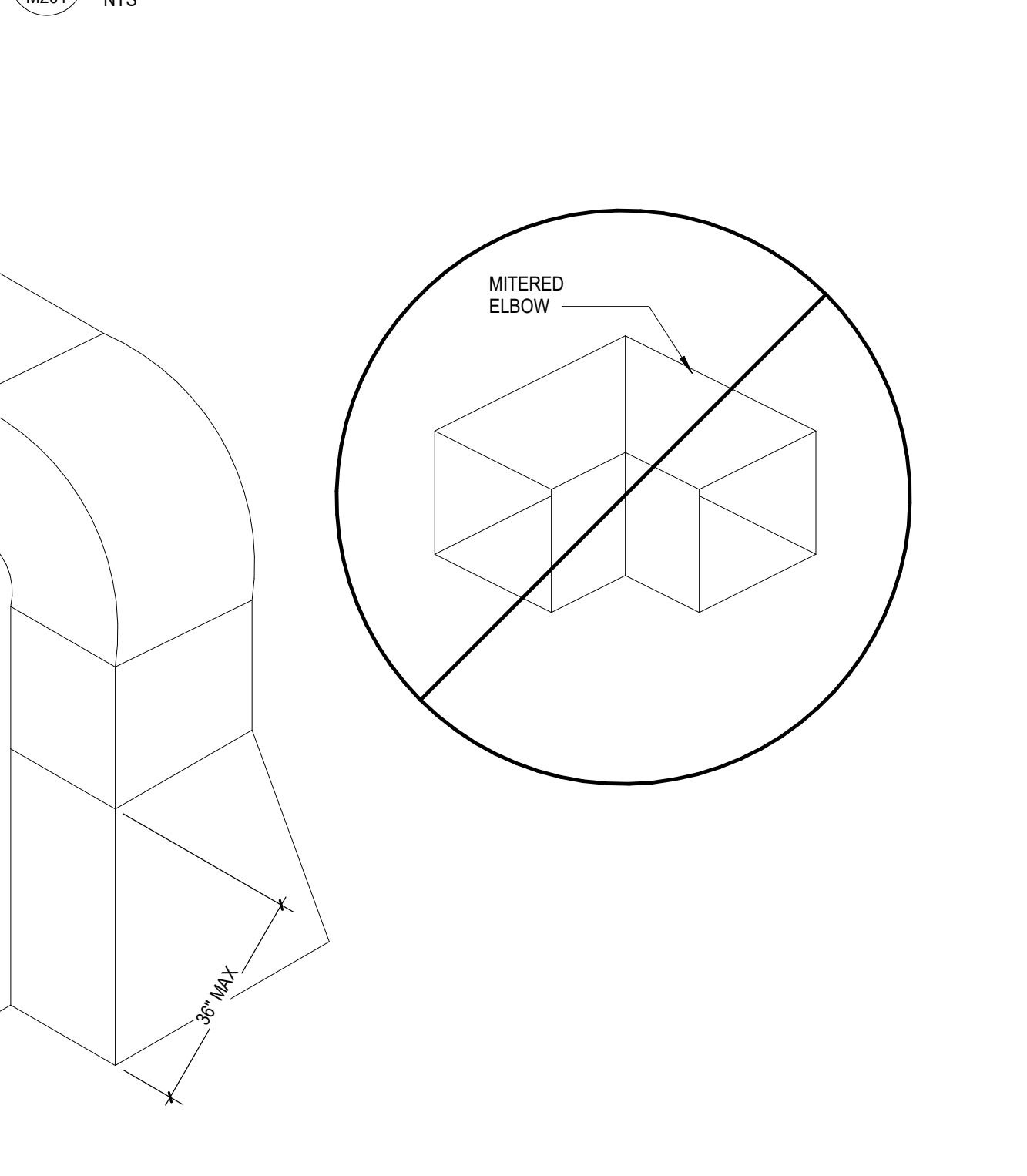
A1 EXHAUST CAP DETAIL W/ HURRICANE RESTRAINT
M201 NTS



A2 TYPICAL DUCT CONNECTION DETAIL
M201 NTS



A3 TYPICAL REFRIGERANT PIPE ROOF DETAIL
M201 NTS



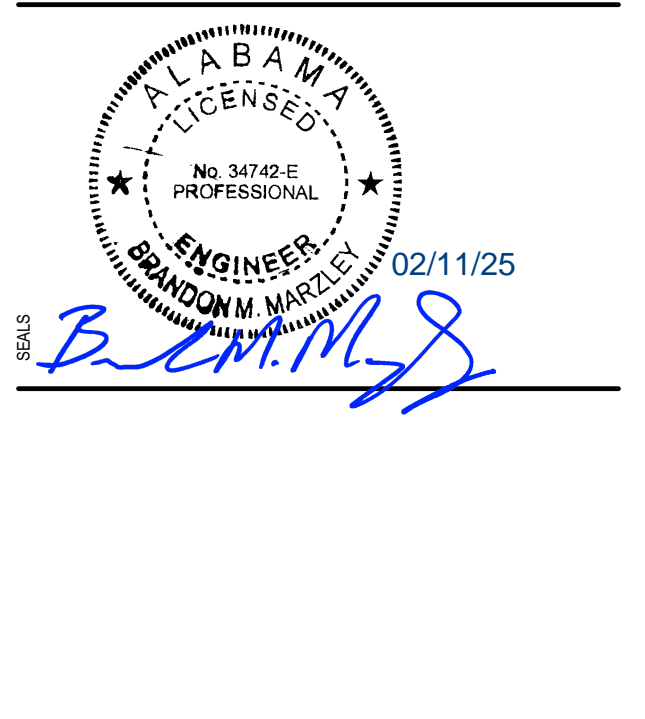
A4 TYPICAL GREASE DUCT DETAIL
M201 NTS

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
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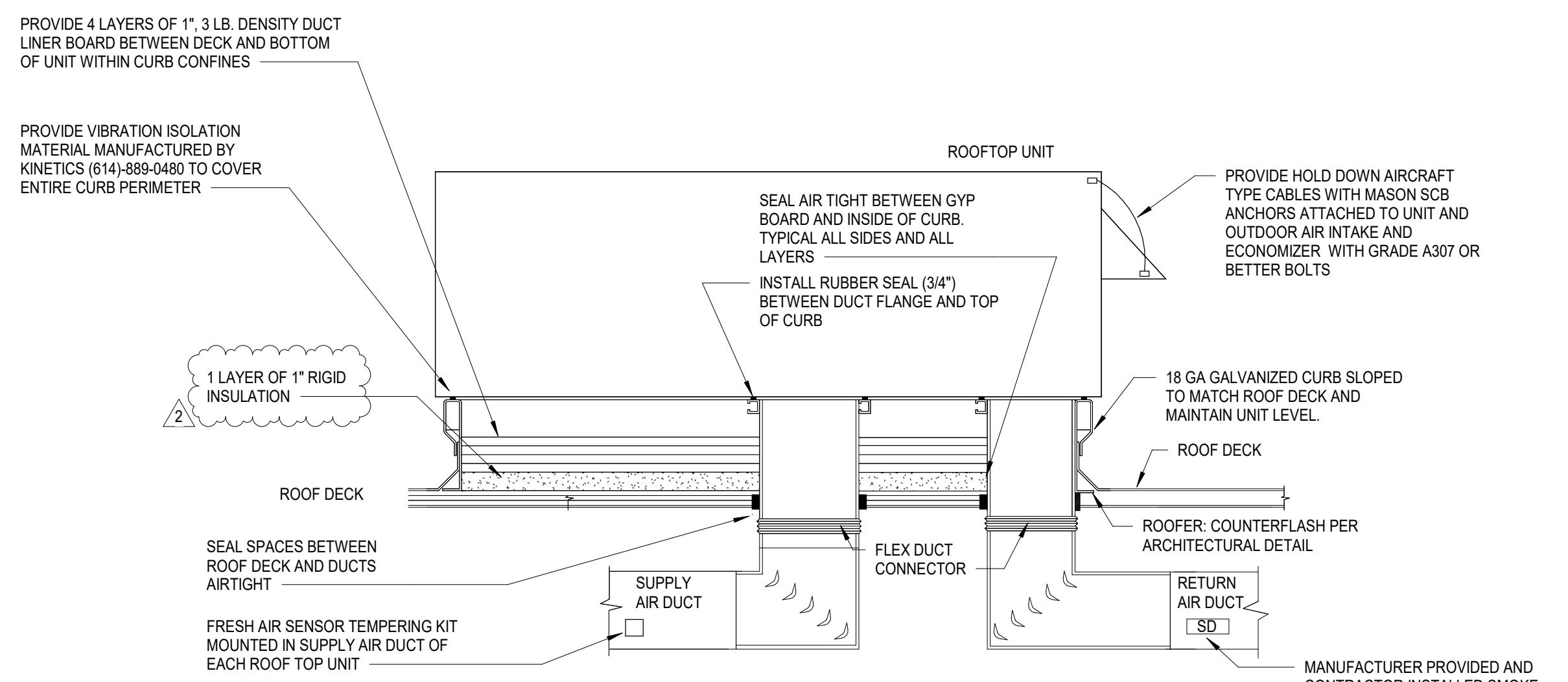
PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

SHEET TITLE:
MECHANICAL
DETAILS

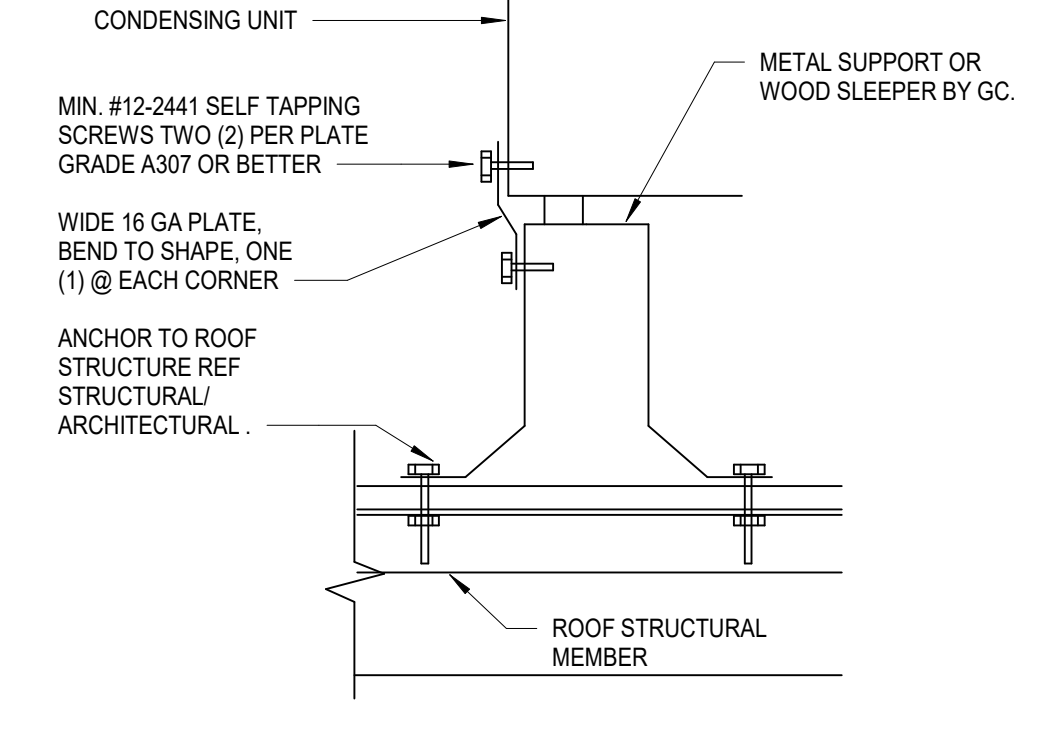
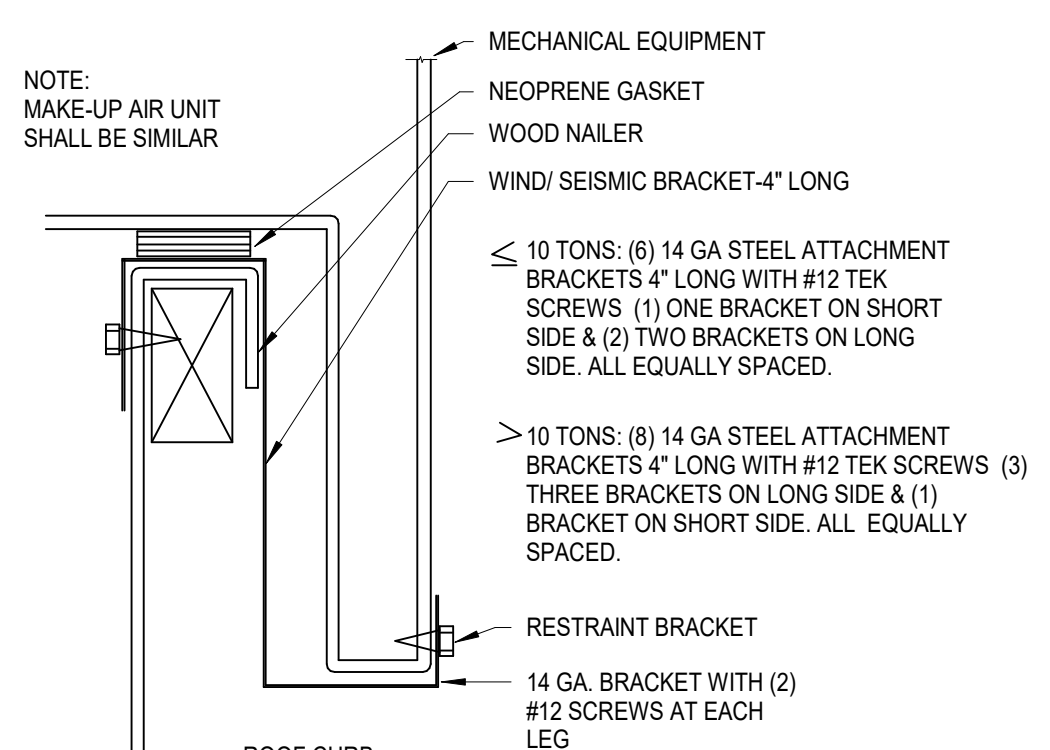
SHEET NO. PROJ. NO.
M201 202421.06



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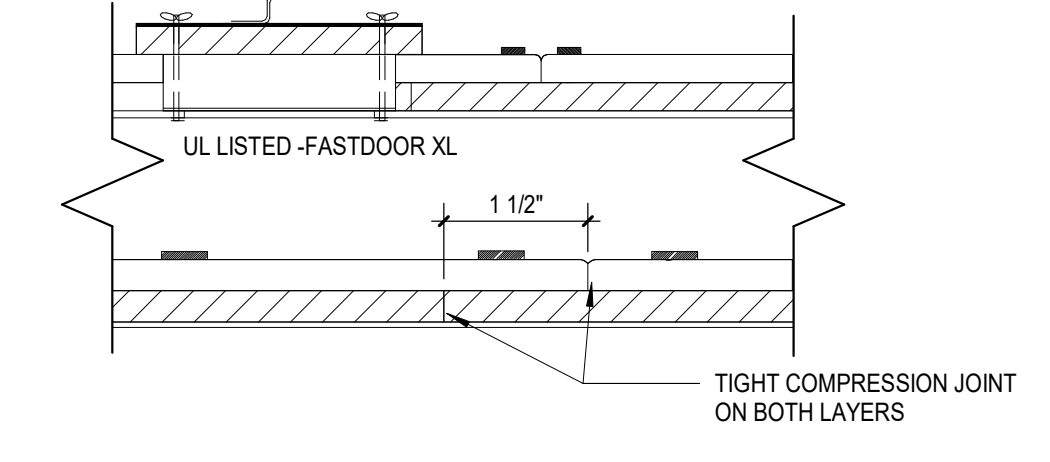
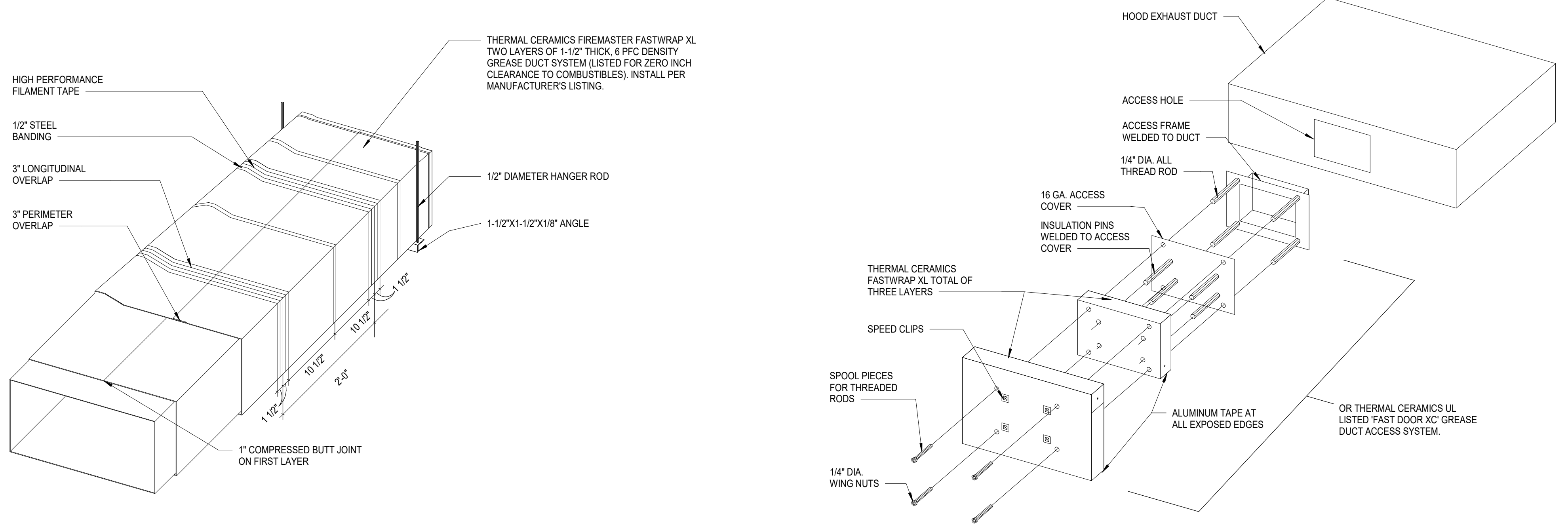
- NOTES:**
1. PROVIDE AUTOMATIC SHUTOFF SMOKE DETECTORS IN ROOF TOP UNITS, REFER TO FLOOR PLAN AND RTU SCHEDULE FOR ADDITIONAL DETAILS.
 2. REFER TO M401 FOR DUCTWORK NOTES AND SPECIFICATIONS.



B1 ROOFTOP UNIT DETAIL
M202 NTS

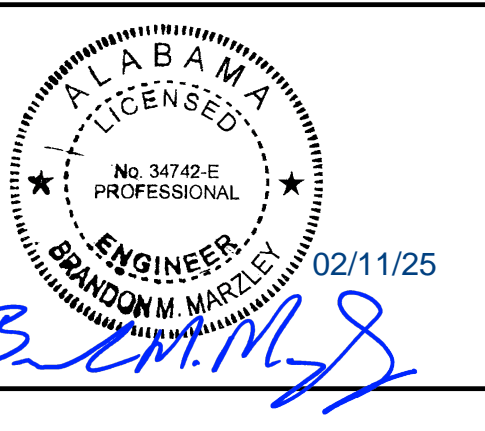
B2 ROOF MOUNT EQUIPMENT DETAIL
M202 NTS

B3 REFRIGERATION MOUNTING DETAIL
M202 NTS



LISTED USES	AGENCY	LISTING	LAYERS
GREASE DUCT ENCLOSURE PER ASTM E2386 AND AC101(2008, 2009, 2012 IMC, NFPA 96, UMC, CMC)	UL ICC-ES	G18 ESP 2213	2

A1 GREASE DUCT WRAP DETAIL
M202 NTS



BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE #1277
 727 2ND AVE NW
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SHEET ISSUE:
 07/15/2024 ISSUED FOR PERMIT
 11/01/2024 PLAN REVIEW COMMENTS & PROTOTYPE UPDATES

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
MECHANICAL DETAILS

SHEET NO. PROJ. NO.
 M202 2024231.06

FAN SCHEDULE						
MARK	EF-1	EF-2	EF-3	EF-4	EF-5	MUA-1
CFM	2205	2125	1480	1050	450	4880
MANUFACTURER						
MODEL NO.						
RPM						
H.P.						
VOLTS/PHASE/HZ						
BD DAMPER						
BIRD SCREEN						
DISCONNECT						
BELT DRIVE						
DIRECT DRIVE						
OTHER						
CURB MODEL/SIZE						
ROOF OPENING SIZE						
FURNISHED BY:	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER	HOOD SUPPLIER
INSTALLED BY:	MC	MC	MC	MC	MC	MC
NOTES (REFER TO BELOW)	HOOD #1	HOOD #2	HOOD #3	HOOD #4	PUBLIC RESTROOMS	

AIR DEVICE SCHEDULE												
MARK	Size	TYPE		CFM	MTG		THROW	DUTY		PRICE MODEL NO.	MAX NC	NOTES
		DIFFUSER	REGISTER/GRILLE		T-BAR	SURFACE DUCT		SUPPLY RETURN	EXHAUST			
A	12"x12"	X		50-250	X		4-WAY	X	5	ASGDA	18	1,3,5,7,9
B	12"x12"	X		50-250	X		4-WAY	X	5	ASGDA	18	1,3,5,7,9
C	VARIABLES	X		500-400	X		4-WAY	X	5	ASGDA	18	1,4,5,10
D	10"x6"	X		0-200	X	X	DOUBLE DEFLECTION	X	5	620D	24	1,2,3,5
E	10"x6"	X	X	0-200	X		FIXED	X	NA	635	24	1,5
F	12"x12"		X	75-200		X	EGG CRATE GRILLE	X	NA	80	19	1,4,5,6,8,9
G	42"x20"		X	1200		X	PERF	X	NA	80FF	17	1,3,5,6,8,11
H	10"x10"		X	75-200		X	EGG CRATE GRILLE	X	NA	80	19	1,2,3,5,6,9

1. ALUMINUM CONSTRUCTION.
2. FURNISH W/OPOSED BLADE DAMPER (WHEN ABOVE NON-ACCESSIBLE CEILING) AND NO BRANCH VOLUME DAMPER IS INDICATED.
3. CEILING MOUNTED OR DUCT MOUNTED.
4. LAY-IN CEILING MOUNTED.
5. WHITE FINISH (IN KITCHEN), SATIN BLACK (AT AREAS WITH BLACK ACT), ALL OTHERS SHALL BE PAINTED TO MATCH CEILING.
6. 1"X1"X1" EGGCRATE GRILLE.
7. SQUARE TO ROUND ADAPTOR.
8. 45 DEG. DEFLECTION.
9. 12"X12" MODULE.
10. 24"X24" MODULE.
11. 48"X24" MODULE.

REF SHEET M101 FOR DIFFUSER MOUNTING TYPE. SEE NOTE #3 & #4 THIS SCHEDULE.

OTHER ACCEPTABLE MANUFACTURERS SHALL BE CARNS, METAL AIR, NAILOR, TUTTLE & BAILEY OR TITUS.

PACKAGE ROOFTOP UNIT SCHEDULE			
UNIT DESIGNATION	RTU-1 (BAR & BAR DINING)	RTU-2 (WAITING & DINING)	RTU-3 (KITCHEN)
MANUFACTURER/MODEL #	TRANE YSK150A3S0H	TRANE YSK150A3S0H	TRANE YSK150A3S0H
RATED COOLING (BTU/TONS)	146,900 TC/106,960 SC / 12.5	146,900 TC/106,960 SC / 12.5	146,900 TC/106,960 SC / 12.5
COOLING STAGES (CHECK ONE)	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4
NOMINAL SUPPLY CFM/ HP BLOWER MOTOR	4,400 CFM/ 4.6 HP	4,400 CFM/ 4.6 HP	4,400 CFM/ 4.6 HP
OA MIN/ ESP	1,050 CFM/ 1.0	1,050 CFM/ 1.0	1,025 CFM/ 1.0
CONDENSER E.A.T. (d.b.)	95°F db	95°F db	95°F db
EVAPORATOR E.A.T. (d.b./w.b.)	80°F db/ 67°F wb	80°F db/ 67°F wb	80°F db/ 67°F wb
COOLING EFFICIENCY (E.E.R./NEER)	10.8	10.8	10.8
HEATING (INPUT/OUTPUT MBH)	250/175 IN/ 202.5/141.8 OUT	250/175 IN/ 202.5/141.8 OUT	250/175 IN/ 202.5/141.8 OUT
AFUE %	80	80	80
HEATER WARRANTY	10 YEAR MIN.	10 YEAR MIN.	10 YEAR MIN.
UNIT ELEC. V/PH/3/100P	208V/3P/73/100	208V/3P/73/100	208V/3P/73/100
TOTAL UNIT WEIGHT (AS SPECIFIED)	1600 LBS	1600 LBS	1600 LBS
STANDARD EQUIPMENT, OPTIONS AND ACCESSORIES	1 THRU 11	1 THRU 11	1 THRU 4, 6 THRU 11

STANDARD EQUIPMENT, OPTIONS AND ACCESSORIES*

1. FULL PERIMETER ROOF CURB, PER MANUFACTURERS RECOMMENDATIONS
2. OUTSIDE AIR INTAKE COVER
3. DUCT FLANGE
4. ECONOMIZER W/ENTHALPY CONTROL & POWERED EXHAUST
5. HUMIDITY CONTROL (HOT GAS REHEAT LIMITED TO 50%)
6. RETURN AIR DUCT DETECTOR FOR UNIT SHUT DOWN, PER AHL.
7. FACTORY INSTALLED DISCONNECT SWITCH
8. FRESH AIR TEMPERING KIT (ENABLE DEVICE & INSTALL SENSOR)
9. FACTORY INSTALLED 115VOLT GFI RECEPTACLE (FIELD WIRE)
10. PROVIDE ROOFTOP UNIT WITH A CONDENSATE DRAIN PAN FLOAT SWITCH THAT WILL SHUT DOWN PRIOR TO CONDENSATE DRAIN PAN OVERFLOW. SHALL SEND A SIGNAL TO THERMOSTAT FOR SERVICE.
11. HAIL GUARD.

*ACCESSORIES MAY VARY, CONTACT TRANE NATIONAL ACCOUNTS LISTED FOR ITEMS FURNISHED.

ENVIRONMENTAL CONDITIONING UNIT SCHEDULE										
TAG	MANUFACTURER	MODEL NUMBER	COOLING CAPACITY MAX-MIN (MBH)	HEATING CAPACITY MAX-MIN (MBH)	CFM	INDOOR ELEC VOLT/PHASE FLA	OUTDOOR ELEC VOLT/PHASE MCA/MOCP	LIQUID SUCTION	WEIGHT INDOOR/OUTDOOR	REMARKS
ECU-1/UCU-1	DAIKIN	PLA-A36/PUZ-A36	36-16	42-18	980	208/1 1	208/1 25/30	3/8" 5/8"	56/214	-

NOTES:
1. PROVIDE THE FOLLOWING ACCESSORIES: WIRED CONTROLLER, INTEGRAL CONDENSATE PUMP, LOW AMBINET KIT, 24" TALL EQUIPMENT STAND.
2. COOLING CAPACITY SCHEDULED INCLUDES EFFECTS OF FAN MOTOR HEAT.
3. REFRIGERANT PIPING SIZES AND ROUTES TO BE REVIEWED WITH MANUFACTURER PRIOR TO INSTALLATION.
4. HEATING CAPACITY BASED ON 47 DEG. F AMBIENT CONDITIONS.

UNIT HEATER SCHEDULE						
MARK	MAKE	MODEL	ELECTRIC	AMPS	HTG. CAP./CFM	KW
UH-1	QMARK	MUH-05-81	208/380	13.8	17MBH/350	5

NOTES:
1. PROVIDE WITH THERMOSTAT AND MOUNTING BASKETS.
2. MOUNT MAXIMUM 8'-0" ABOVE FINISH FLOOR.

AIR BALANCE SCHEDULE					
Mark	RETURN AIR FLOW	OUTSIDE AIR FLOW	SUPPLY AIR FLOW	EXHAUST AIR FLOW	NET AIRFLOW
EF-1	0 CFM	0 CFM	0 CFM	2,205 CFM	-2205 CFM
EF-2	0 CFM	0 CFM	0 CFM	2,125 CFM	-2125 CFM
EF-3	0 CFM	0 CFM	0 CFM	1,480 CFM	-1480 CFM
EF-4	0 CFM	0 CFM	0 CFM	1,050 CFM	-1050 CFM
EF-5	0 CFM	0 CFM	0 CFM	450 CFM	-450 CFM
MUA-1	0 CFM	4880 CFM	0 CFM	0 CFM	4880 CFM
RTU-1	3350 CFM	1050 CFM	4,400 CFM	0 CFM	1050 CFM
RTU-2	3350 CFM	1050 CFM	4,400 CFM	0 CFM	1050 CFM
RTU-3	3375 CFM	1025 CFM	4,400 CFM	0 CFM	1025 CFM
TOTAL	10075 CFM	8005 CFM	13,200 CFM	7,310 CFM	695 CFM

OUTDOOR AIR CALCULATION			
BAR	180 NET SF 1000	x 100 = 18 PEOPLE	18 x 7.5 / 0.8 = 169 CFM 180 x .18 / 0.8 = 41 CFM
BAR DINING	840 SF 1000	x 70 = 58 PEOPLE	58 x 7.5 / 0.8 = 544 CFM 840 x .18 / 0.8 = 189 CFM
VESTIBULE	40 SF		40 x .06 / 0.8 = 3 CFM
WAITING	165 SF 1000	x 30 = 5 PEOPLE	5 x 7.5 / 0.8 = 47 CFM 165 x .06 / 0.8 = 12 CFM
DINING	1280 SF 1000	x 70 = 83 PEOPLE	83 x 7.5 / 0.8 = 778 CFM 1280 x .18 / 0.8 = 284 CFM
WALKWAY	60 SF		60 x .06 / 0.8 = 5 CFM
CARRY-OUT	108 SF		108 x .06 / 0.8 = 8 CFM
			TOTAL OA REQUIRED = 2090 CFM TOTAL OA PROVIDED THRU RTU-1,2 = 2100 CFM
KITCHEN	1158 NET SF		1158 x 0.18 = 209 CFM
OFFICE	55 SF 1000	x 5 = 1 PERSON	1 x 5 / 0.8 = 6 CFM 55 x .06 / 0.8 = 4 CFM
			TOTAL OA REQUIRED = 209 CFM OA FOR POSITIVE PRESSURIZATION = 806 CFM TOTAL OA PROVIDED THRU RTU-3 = 1025 CFM

OUTDOOR AIR VENTILATION FORMULA:

BREATHING ZONE AREA (Az) X OCCUPANT DENSITY / 1000 SF = OCCUPANTS
OCCUPANTS X PEOPLE OUTDOOR AIR RATE (CFM/PERSON) (Rp) = CFM
CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = CFM (1)

BREATHING ZONE AREA (Az) X AREA OUTDOOR AIR RATE (Ra) = CFM
CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = CFM (2)

(1) + (2) = TOTAL CFM REQUIRED FOR THAT ZONE

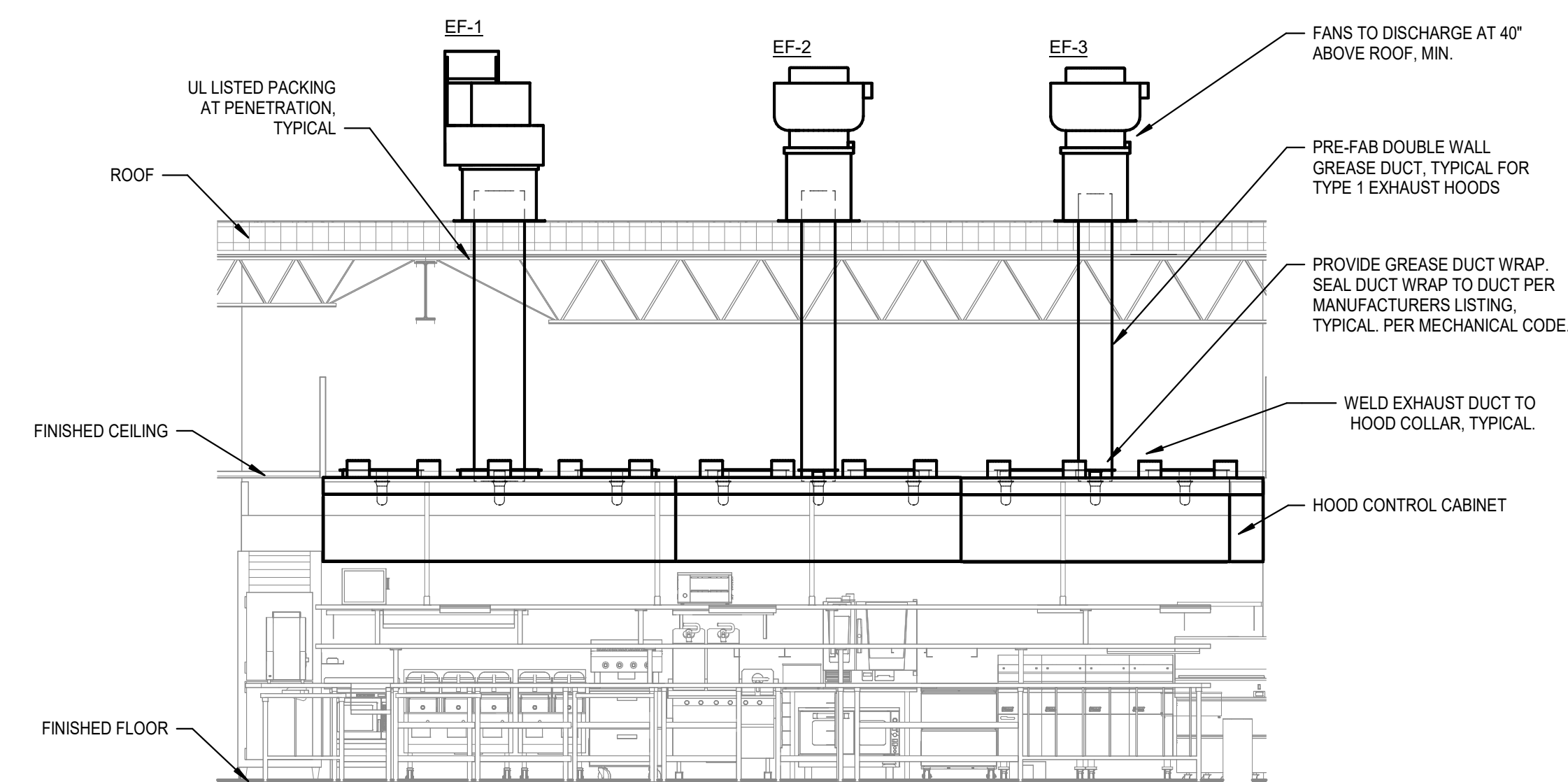
KITCHEN OUTDOOR AIR: BREATHING ZONE AREA (Az) X 0.18 CFM PER SQ. FT. = CFM
CFM / ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez) = TOTAL CFM REQUIRED

DUCT LOCATION	MINIMUM DUCT SEAL LEVEL ^a		
	DUCT TYPE		EXH
	SUPPLY	RETURN	
OUTDOORS ^c	< 2 IN W.C. (500 PA) ^b	> 2 IN W.C. (500 PA) ^b	A
UNCONDITIONED SPACES	A	A	C B
CONDITIONED SPACES	C	B	B C

a. REFER TO SEAL CLASS TABLE BELOW.
b. DUCT DESIGN STATIC PRESSURE CLASSIFICATION.
c. INCLUDES INDIRECTLY CONDITIONED SPACES, SUCH AS RETURN AIR PLENUMS.

DUCT SEAL CLASS	DUCT SEAL CLASSES	
	SEALING REQUIREMENTS ^a	
A	ALL TRAVERSE JOINTS, LONGITUDINAL SEAMS, & DUCT WALL PENETRATIONS. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.	
B	ALL TRAVERSE JOINTS, LONGITUDINAL SEAMS. PRESSURE SENSITIVE TAPE SHALL NOT BE USED AS THE PRIMARY SEALANT.	
C	TRAVERSE JOINTS ONLY.	

a. LONGITUDINAL SEAMS ARE JOINTS ORIENTED IN THE DIRECTION OF AIRFLOW. TRANSVERSE JOINTS ARE CONNECTIONS OF TWO DUCT SECTIONS & ARE ORIENTED PERPENDICULAR TO AIRFLOW. DUCT WALL PENETRATIONS ARE OPENINGS MADE BY ANY SCREW FASTENER, PIPE, ROD OR WIRE. SPIRAL LOCK SEAMS IN ROUND & FLAT OVAL DUCTS NEED NOT BE SEALED. ALL OTHER CONNECTIONS ARE CONSIDERED TRANSVERSE JOINTS, INCLUDING BUT NOT LIMITED TO SPINNS, TAPS & OTHER V BRANCH CONNECTIONS, ACCESS DOOR FRAMES AND JAMBS, AND DUCT CONNECTIONS TO EQUIPMENT.

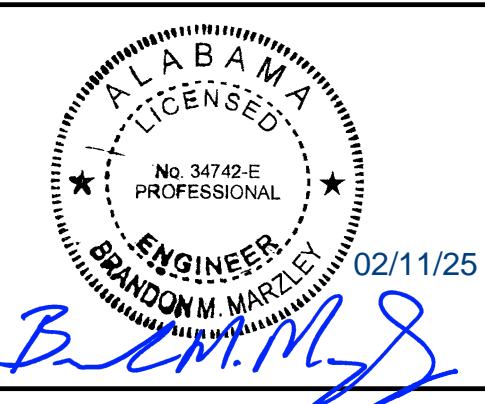


DUCT HANGER DETAILS			
MINIMUM HANGER SIZE FOR RECTANGULAR DUCT			
MAXIMUM HALF OF DUCT PERIMETER	PAIR @ 10 FT. SPACING		PAIR @ 8 FT. SPACING
	STRAP	WIRE/ROD	STRAP WIRE/ROD
P 2	30"	1"x22 GA. 10 GA. (.135")	1"x22 GA. 10 GA. (.135")
P 2	72"	1"x18 GA. 3/8"	1"x20 GA. 1/4"
P 2	96"	1"x16 GA. 3/8"	1"x18 GA. 3/8"
P 2	120"	1-1/2"x16 GA. 1/2"	1"x16 GA. 3/8"

MINIMUM HANGER SIZE FOR ROUND DUCT				
DIA.	MAX. SPACING	WIRE	ROD	STRAP
10" DN	12"	ONE 12 GA.	1/4"	1"x22 GA.
11"-18"	12"	TWO 12 GA. OR 1 8 GA.	1/4"	1"x22 GA.
19"-24"	12"	TWO 10 GA.	1/4"	1"x22 GA.
25"-36"	12"	TWO 8 GA.	3/8"	1"x20 GA.
37"-50"	12"	TWO 8 GA.	TWO 3/8"	TWO 1"x20 GA.
51"-60"	12"	TWO 8 GA.	TWO 3/8"	TWO 1"x18 GA.
61"-84"	12"	TWO 8 GA.	TWO 3/8"	TWO 1"x18 GA.

NOTES:
1. DIMENSIONS OTHER THAN GAUGE ARE IN INCHES.
2. TABLES ALLOW FOR DUCT WEIGHT, 1 LB. / SF INSULATION WEIGHT & NORMAL REINFORCEMENT & TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS.
3. STRAPS ARE GALVANIZED STEEL.
4. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA. MAXIMUM EXCEPT THAT WHEN MAXIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.
5. 12, 10 OR 8 GA. WIRE IS STEEL OR BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED TYPE.

NOTES:
1. STRAPS ARE GALVANIZED STEEL; RODS ARE UNCOATED OR GALVANIZED STEEL. WIRE IS BLACK ANNEALED, BRIGHT BASIC OR GALVANIZED STEEL. ALL OTHERS ARE ALTERNATIVES.
2. TABLE ALLOWS FOR CONVENTIONAL WALL THICKNESS & JOINT SYSTEMS PLUS ONE LB/SF OF INSULATION WEIGHT. IF HEAVIER DUCTS ARE TO BE INSTALLED, ADJUST HANGER SIZES TO BE WITHIN THEIR LOAD LIMITS.



BLOOMING BRANDS
OUTBACK STEAKHOUSE
JOE PROTOTYPE (2023.1 RELEASE)
STORE #1277
727 2ND AVE NW
CULLMAN, AL 36505

SHEET ISSUE:
2 07/15/2024 ISSUED FOR PERMIT
11/01/2024 PLAN REVIEW COMMENTS & PROTOTYPE UPDATES

PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET NO. PROJ. NO.
2024231.06

M301

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

HOOD INFORMATION - JOB#687720

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA				CFM	VEL	SP
1		5430 GSN-2-ACPS-F	GREASEMASTER	10' 6"	600 DEG	I	HEAVY	210	2205	4'	16"	2205	1579	-0.708"	1980	600	430 SS WHERE EXPOSED	LEFT	ALDNE
2		5430 GSN-2-ACPS-F	GREASEMASTER	8' 6"	450 DEG	I	MEDIUM	250	2125	4'	16"	2125	1522	-0.734"	1570	500	430 SS WHERE EXPOSED	MIDDLE	ALDNE
3		5430 GSN-2-ACPS-F	GREASEMASTER	8' 0"	450 DEG	I	MEDIUM	185	1480	4'	12"	1480	1884	-0.671"	1330	500	430 SS WHERE EXPOSED	RIGHT	ALDNE
4		5430 VGS-G-REM1	GREASEMASTER	7' 0"	700 DEG	II	N/A	150	1050	4'	12"	1050	1337	-0.129"	0	0	430 SS 100%	ALDNE	ALDNE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT		
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE			ELECTRICAL MODEL #	SWITCHES QUANTITY
1		CAPRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	ND						YES	732 LBS	
2		CAPRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	ND						YES	613 LBS	
3		CAPRATE SOLO FILTER	5	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	ND	RIGHT	12"x54"x30"	TANK FS	4.0/4.0	SC-331110MA	1 LIGHT 1 FAN	YES	925 LBS
4							4	L55 SERIES E26	ND						NO	290 LBS	

HOOD OPTIONS

HOOD NO	TAG	OPTION
3		RISER SENSOR INSTALL 6IN PLEN.

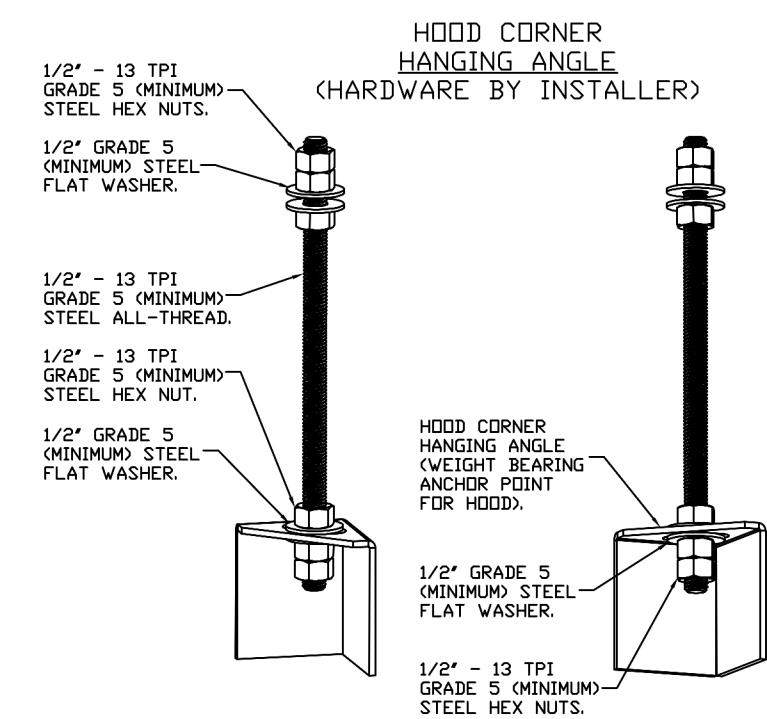
PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S)					
						MUA	LENG	DIA	CFM	SP	
1		Front	126"	24"	6'	MUA	12"	28"	660	0.166"	
						MUA	12"	28"	660	0.166"	
						MUA	12"	28"	660	0.166"	
						AC	8"	120	0.045"		
						AC	8"	120	0.045"		
						AC	8"	120	0.045"		
2		Front	102"	24"	6'	MUA	12"	28"	785	0.230"	
						MUA	12"	28"	785	0.230"	
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		
3		Front	108"	24"	6'	MUA	12"	28"	665	0.168"	
						MUA	12"	28"	665	0.168"	
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		
						AC	8"	125	0.049"		

CLEARANCE TO COMBUSTIBLES

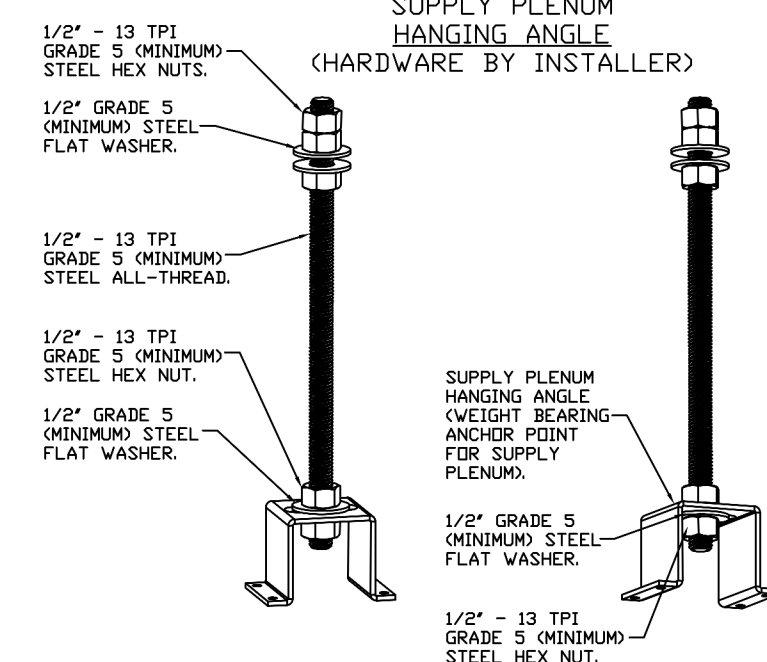
HOODS #	SURFACE	*CLEARANCE
1,2	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
3	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	18"
4	TOP	18"
	FRONT	18"
	BACK	18"
	LEFT	18"

*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



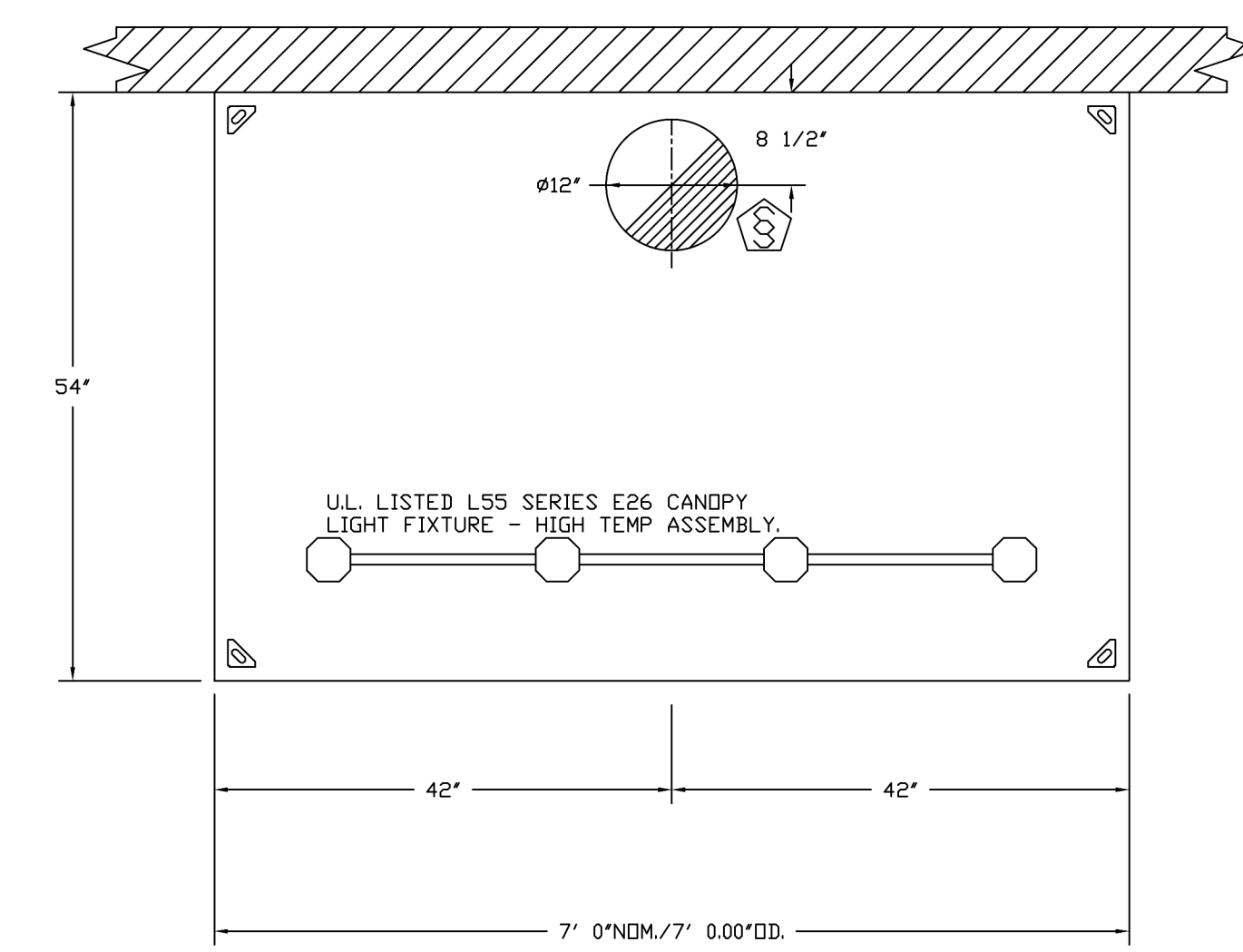
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

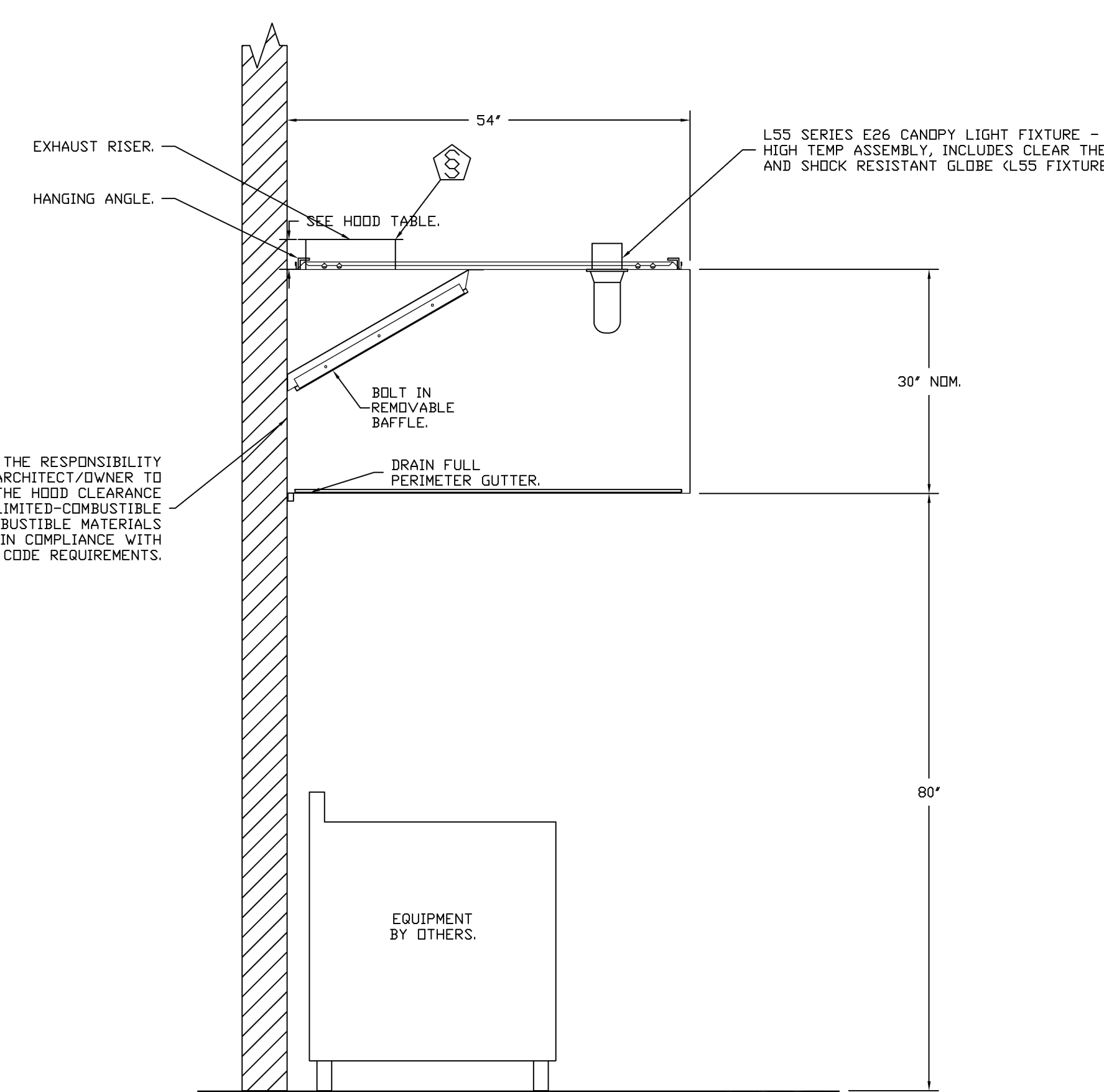


ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



PLAN VIEW - HOOD #4
7' 0.00" LONG 5430VGS-G-REM1



SECTION VIEW - MODEL 5430VGS-G-REM1
HOOD - #4

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)			WEIGHT
			FIRE SYSTEM TYPE	SIZE	SWITCHES MODEL # QUANTITY	
1	WALL MNT	12"x24"x24"	TANK FS	4.0/4.0		300.00 LBS

SPECIFICATION: CAPRATE® GREASE-STOP® SOLO FILTER

THE CAPRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

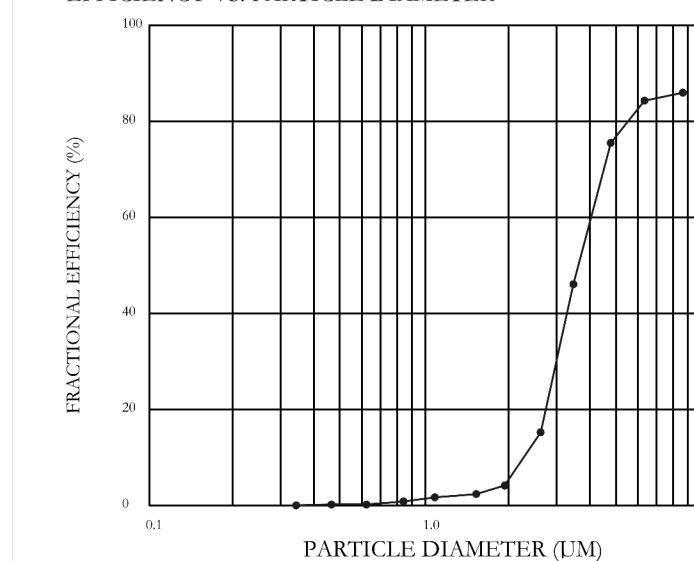
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

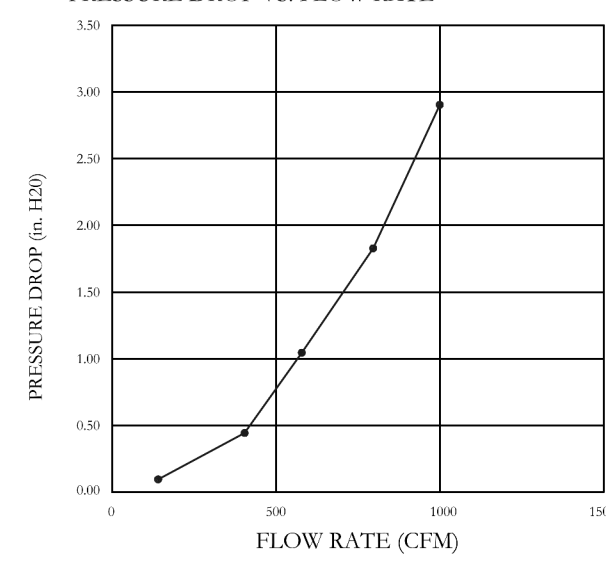
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-02. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.



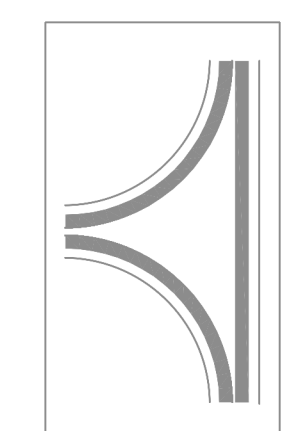
GREASE MASTER HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

REVISIONS

NO.	DESCRIPTION	DATE

GREASE MASTER™
608 MATTHEWS-MINT HILL RD. STE 105, MATTHEWS, NC 28105
TELEPHONE 704-844-6907 FAX 704-844-8013
WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse - Cullman, AL

DATE: 6/24/2024
DWG.#: 687720

DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE#1277
777 2ND AVE NW
CULLMAN, AL 35055

SHEET ISSUE:
07/15/2024 ISSUED FOR PERMIT

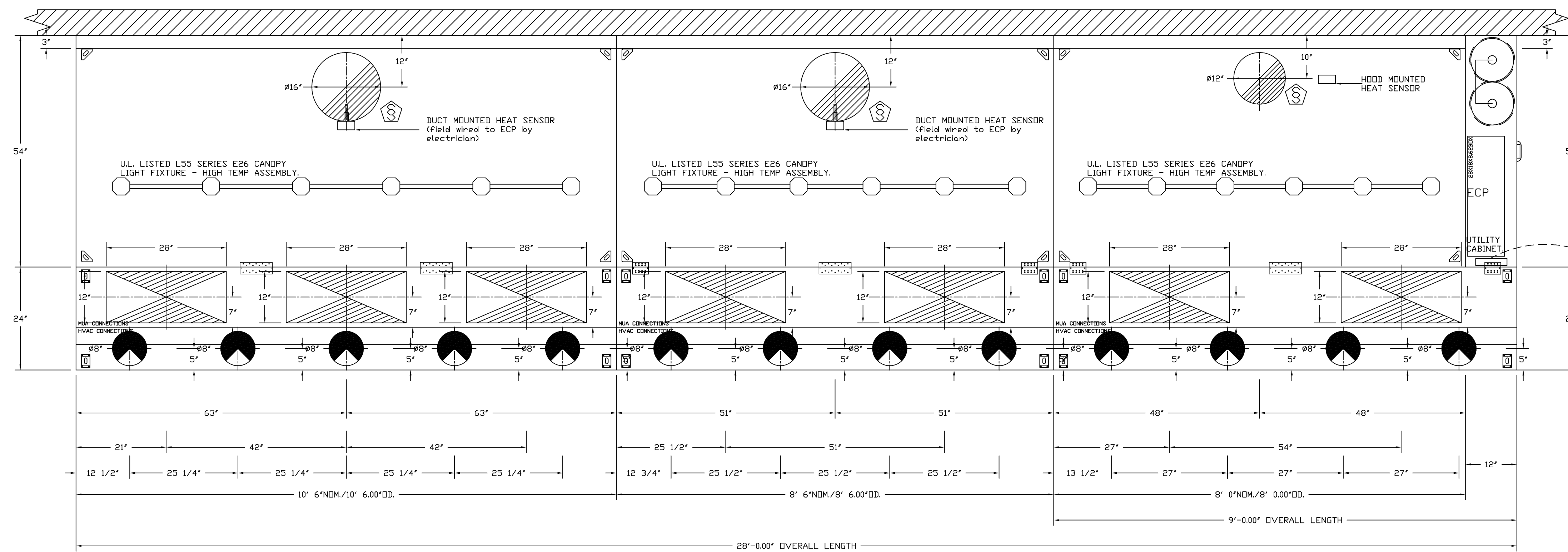
PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

SHEET TITLE: HOOD DETAILS

SHEET NO. PROJ. NO. 2024231.06

MH101

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



PLAN VIEW - HOOD #1
10' 6.00" LONG 5430GSN-2-ACPSP-F

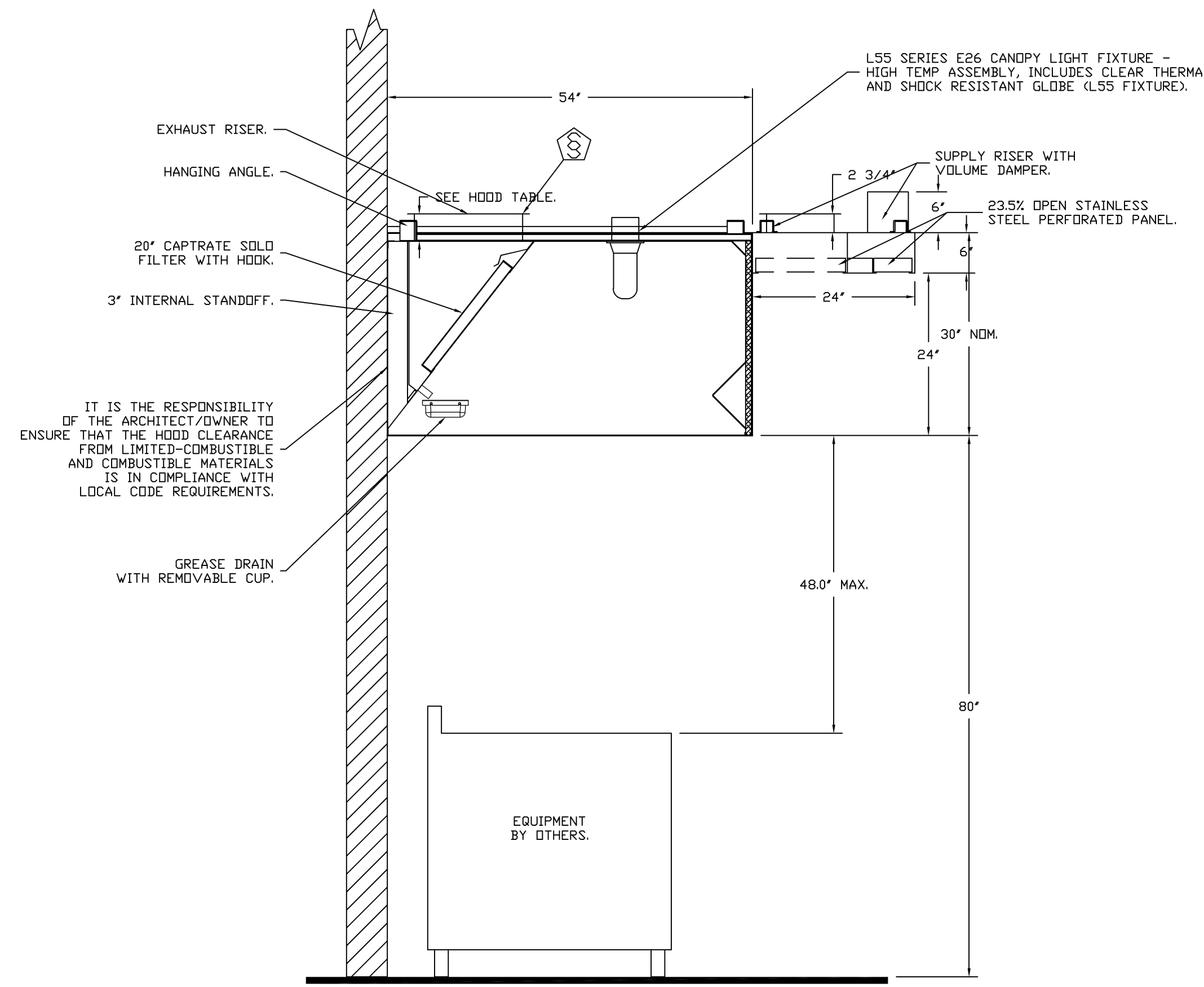
PLAN VIEW - HOOD #2
8' 6.00" LONG 5430GSN-2-ACPSP-F

PLAN VIEW - HOOD #3
8' 0.00" LONG 5430GSN-2-ACPSP-F

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

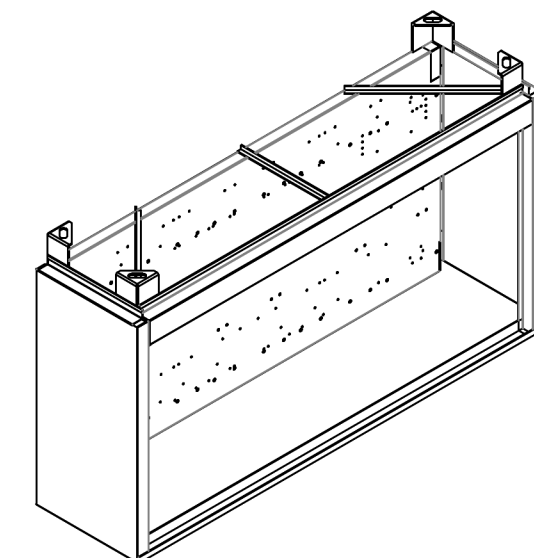
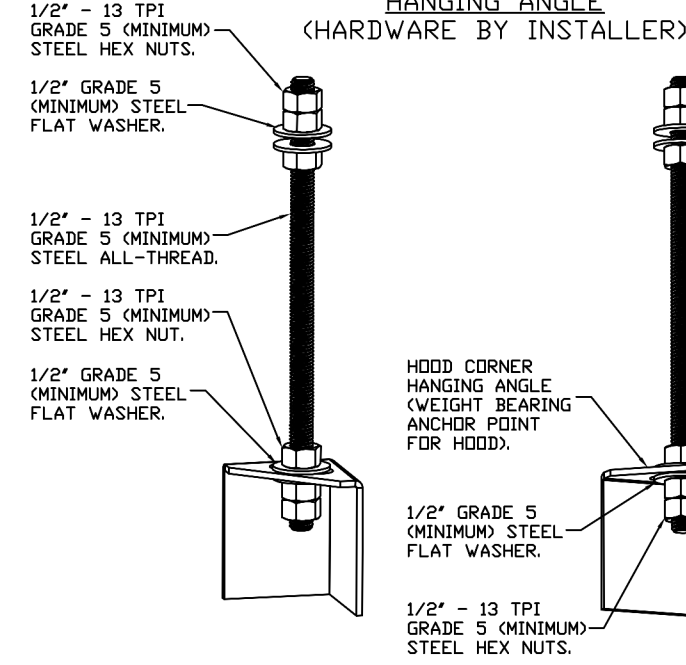


SECTION VIEW - MODEL 5430GSN-2-ACPSP-F
HOOD - #1, 2, & 3

WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

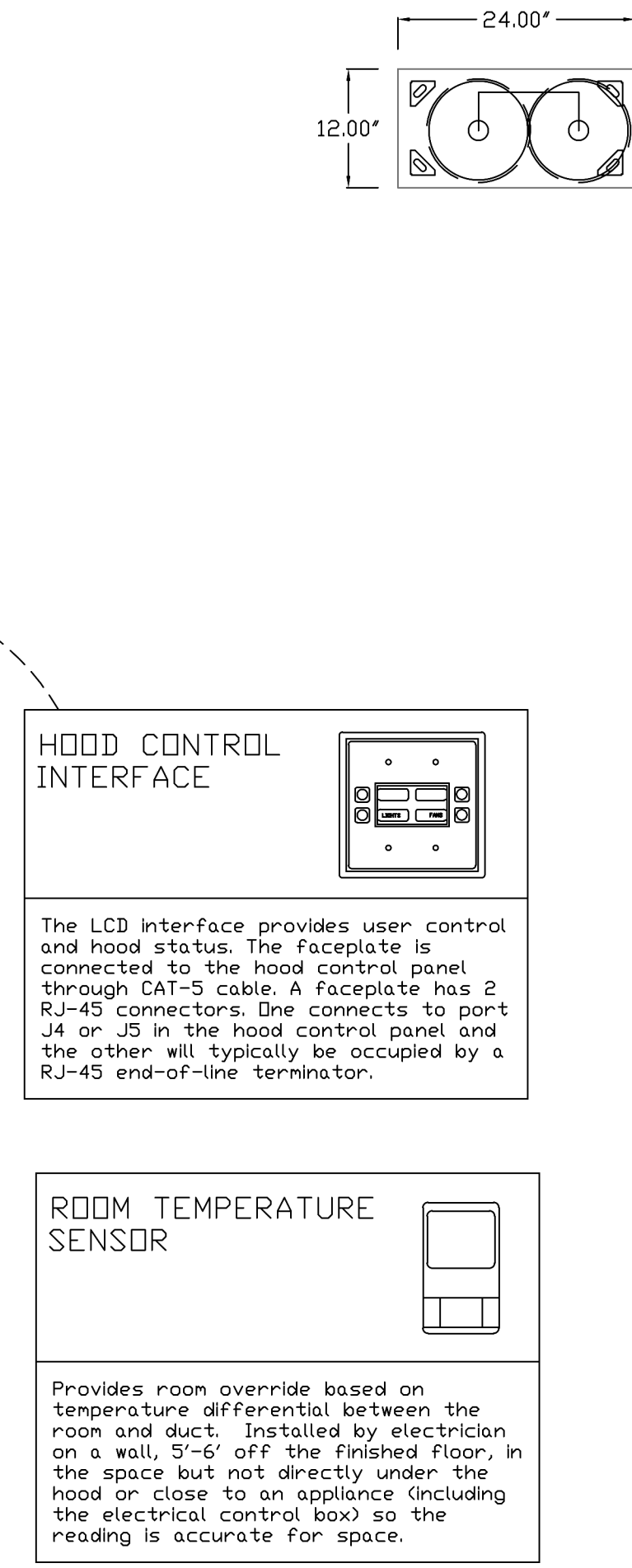
CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

UTILITY CABINET HANGING ANGLE (HARDWARE BY INSTALLER)



GREASE MASTER HOODS ARE BUILT IN COMPLIANCE WITH UL 710 AND NFPA 96 AND ARE RECOGNIZED BY ONE OR MORE OF THE FOLLOWING:

ETL SANITATION LISTED
ETL LISTED FILE# 3054804-001

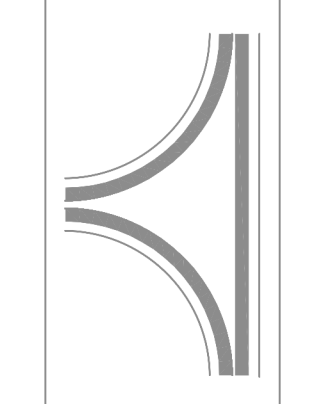


HOOD CONTROL INTERFACE
The LCD interface provides user control and hood status. The faceplate is connected to the hood control panel through CAT-5 cable. A faceplate has 2 RJ-45 connections. One connects to port J4 or J5 in the hood control panel and the other will typically be occupied by a RJ-45 end-of-line terminator.

ROOM TEMPERATURE SENSOR
Provides room override based on temperature differential between the room and duct. Installed by electrician on a wall, 5'-6" off the finished floor, in the space but not directly under the hood or close to an appliance including the electrical control box so the reading is accurate for space.

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
608 MATTHEWS-MINT HILL RD. STE 105, MATTHEWS, NC 28105
TELEPHONE 704-844-6907 FAX 704-844-8013
WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse - Cullman, AL

DATE: 6/24/2024
DWG.#: 6877720
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2



FOR REFERENCE ONLY

BLOOMING BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE#1277
777 2ND AVE NW
CULLMAN, AL 35055

SHEET ISSUE:
07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO. 2024231.06

MH102

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FIRE SYSTEM INFORMATION - JOB#6877720

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	63	FIRE CABINET RIGHT	RIGHT, HOOD 3
			4.0/4.0	40		WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

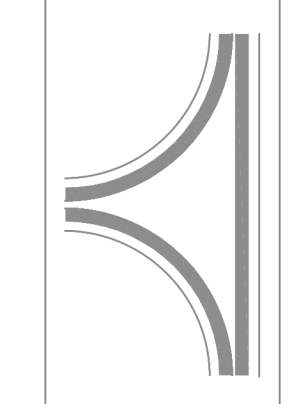
FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.500	GREASEMASTER

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLDSE ON TEMP RISE AT 360°F. (A0034310).	3	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	4	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	2	0
		0 - 0 - 79525 1/2" X 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2"NPT FEMALE CONNECTION, VIEGA.	4	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	16	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	2	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" NPT HALF UNION. USED ON TANK SERVICE PORT.	2	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - SLPCCN-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2" GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPCCN-05FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 4" GAP. KIT CONTAINS 7 FEET OF BLACK MG WIRE, 7 FEET OF TAN MG WIRE, 5 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 - 0 - SLPCCN-30FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 29" GAP. KIT CONTAINS 32 FEET OF BLACK MG WIRE, 32 FEET OF TAN MG WIRE, 30 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	12	0
	0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	4	0	
	0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	4	0	
	34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	2	0	

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
 608 MATTHEWS-MINT HILL RD. STE 105, MATTHEWS, NC 28105
 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Cullman, AL

DATE: 6/24/2024
DWG.#: 6877720
DRAWN BY: dbreidt
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO.
3



FOR REFERENCE ONLY

BLOOMIN' BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE#1277
 727 2ND AVE NW
 CULLMAN, AL 35055

SHEET ISSUE:
 07/15/2024 ISSUED FOR PERMIT

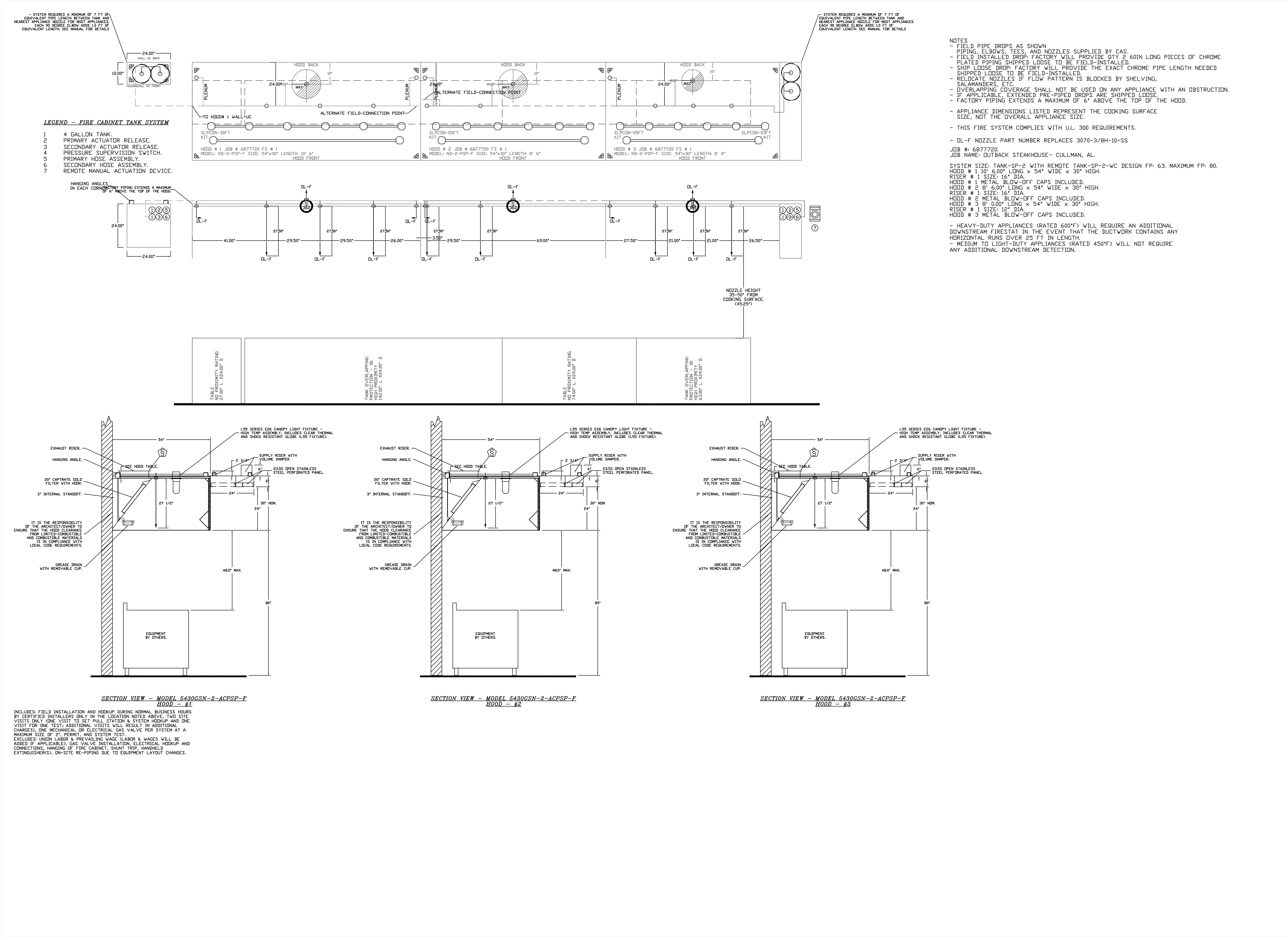
PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO.
 2024231.06

MH103

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



REVISIONS

DESCRIPTION	DATE

GREASE MASTER™
 608 MATTHEWS-MINT HILL RD, STE 105, MATTHEWS, NC 28105
 TELEPHONE: 704-844-6907 FAX: 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM

Outback Steakhouse- Cullman, AL

DATE: 6/24/2024
DWG.#: 6877720
DRAWN BY: dlbreidt
SCALE: 1/2" = 1'-0"
MASTER DRAWING

SHEET NO.
4

FOR REFERENCE ONLY

BLOOMIN BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE#1277
 727 2ND AVE NW
 CULLMAN, AL 35055

SHEET ISSUE:
 07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
 HOOD DETAILS

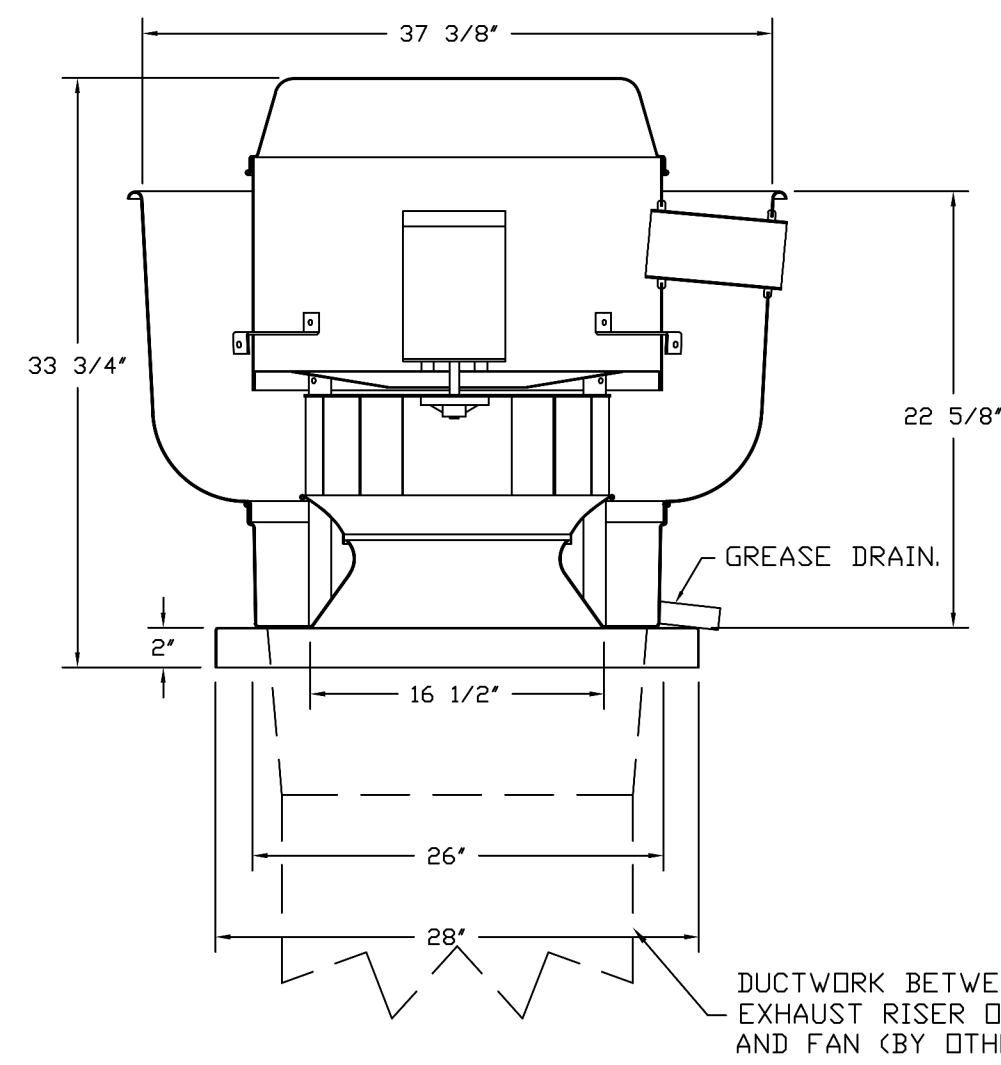
SHEET NO.
 4

PROJ. NO.
 2024231.06

MH104

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FAN #2 GMDU180H - EXHAUST FAN (EF-2)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

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.

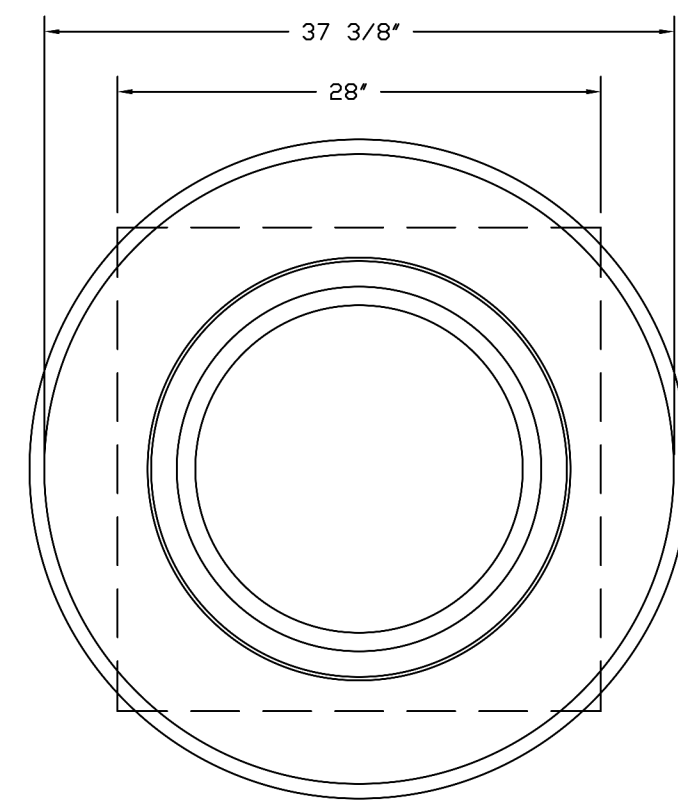
ABNORMAL FLARE-UP TEST

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.

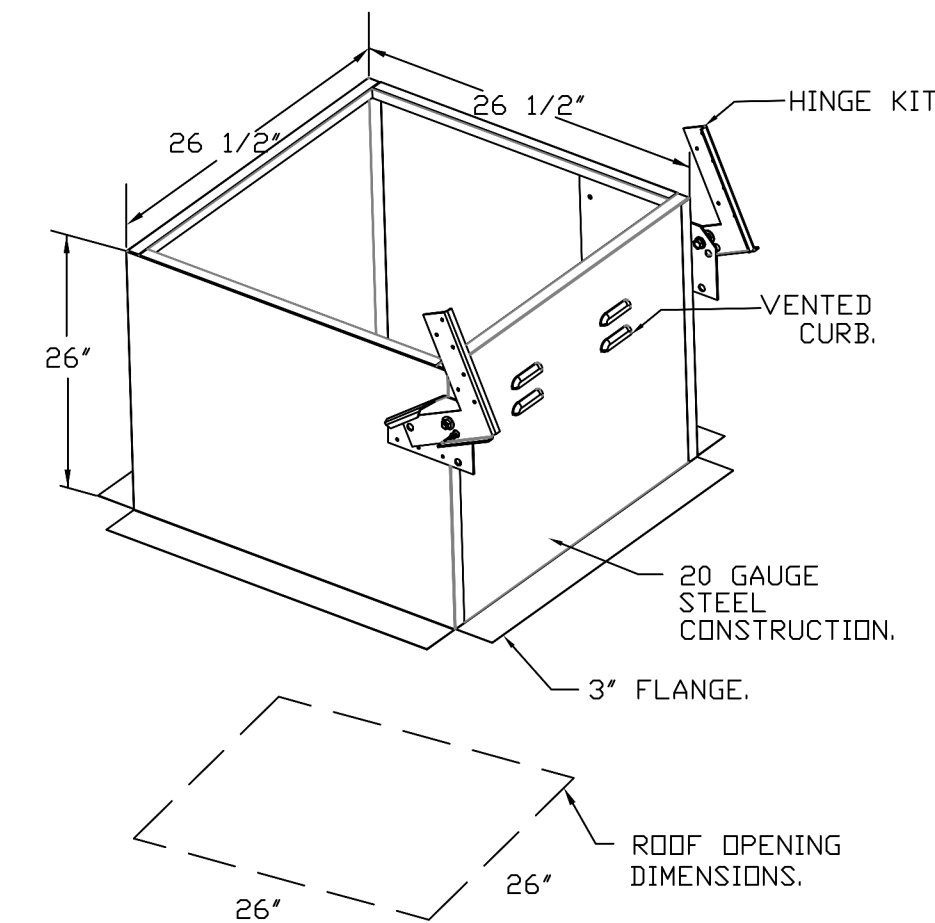
OPTIONS:

- GREASE BOX.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.

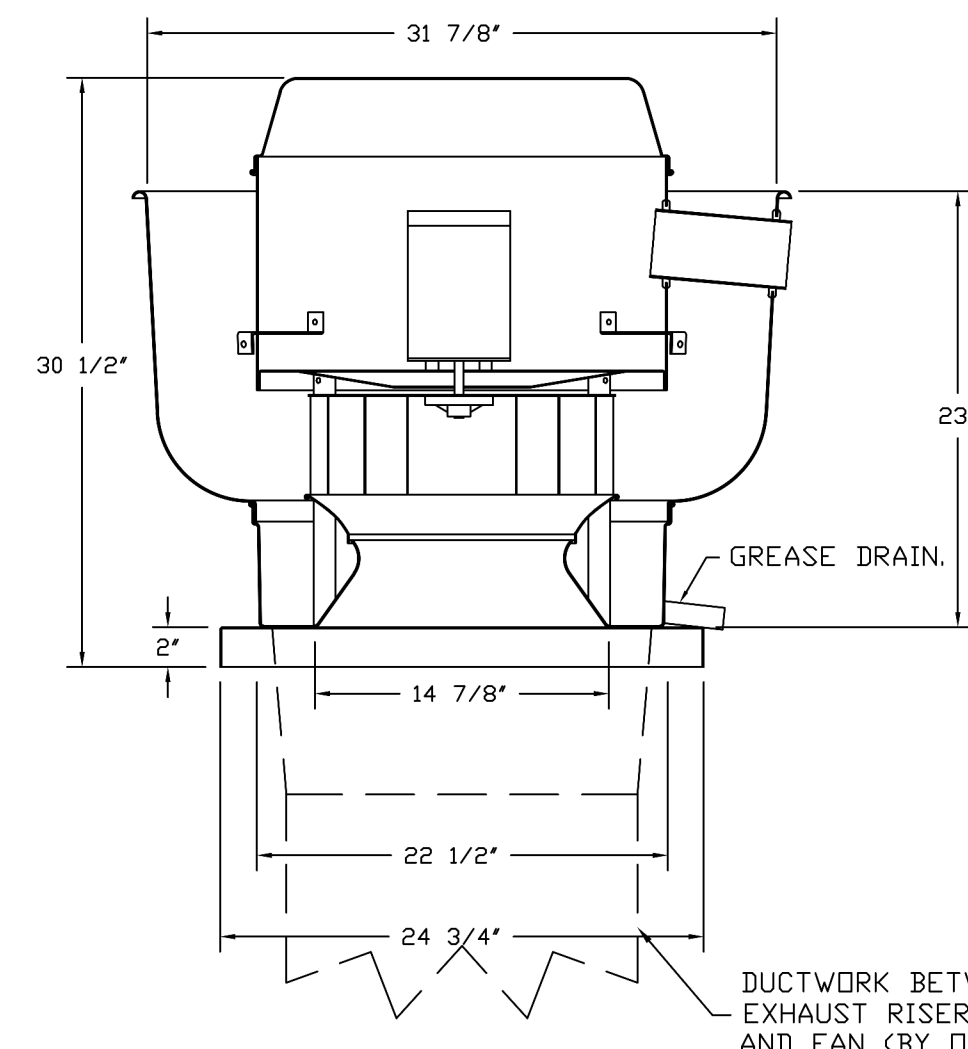
DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW



FAN #3 GMDU180H - EXHAUST FAN (EF-3)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-5645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

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.

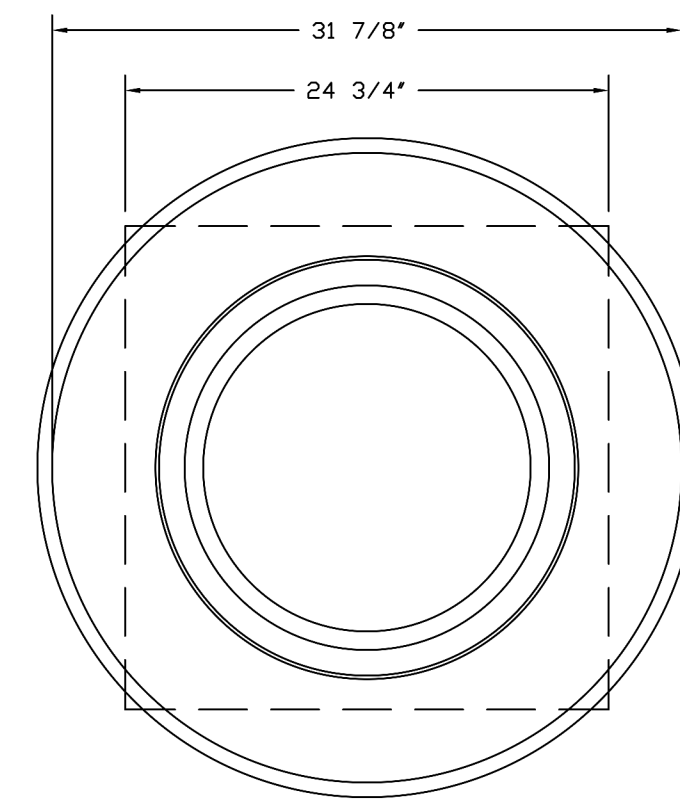
ABNORMAL FLARE-UP TEST

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.

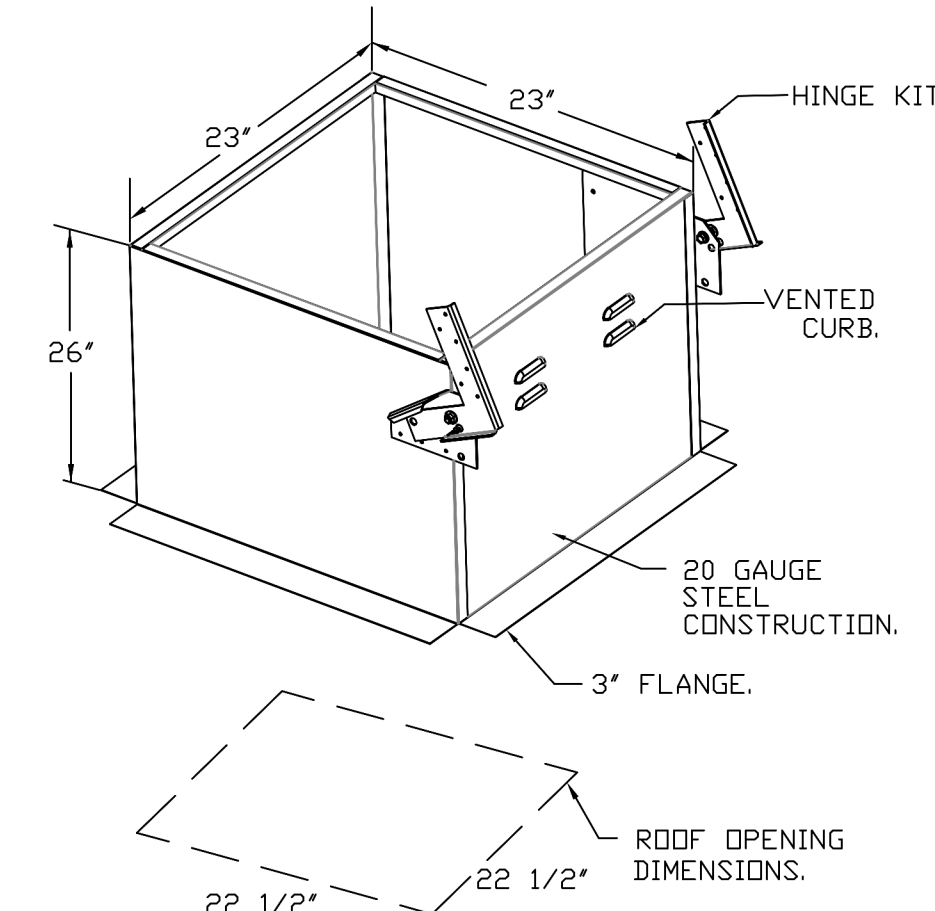
OPTIONS:

- GREASE BOX.
- FULL CRATING FOR EXHAUST FANS.
- 2 YEAR PARTS WARRANTY.

DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW



REVISIONS

NO.	DESCRIPTION	DATE



GREASE MASTER™
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Outback Steakhouse- Cullman, AL

DATE: 6/24/2024

DWG.#: 6877720

DRAWN BY: dbreidt

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 6



FOR REFERENCE ONLY

BLOOMIN' BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE #1277
 777 2ND AVE NW
 CULLMAN, AL 35055

SHEET ISSUE:

07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

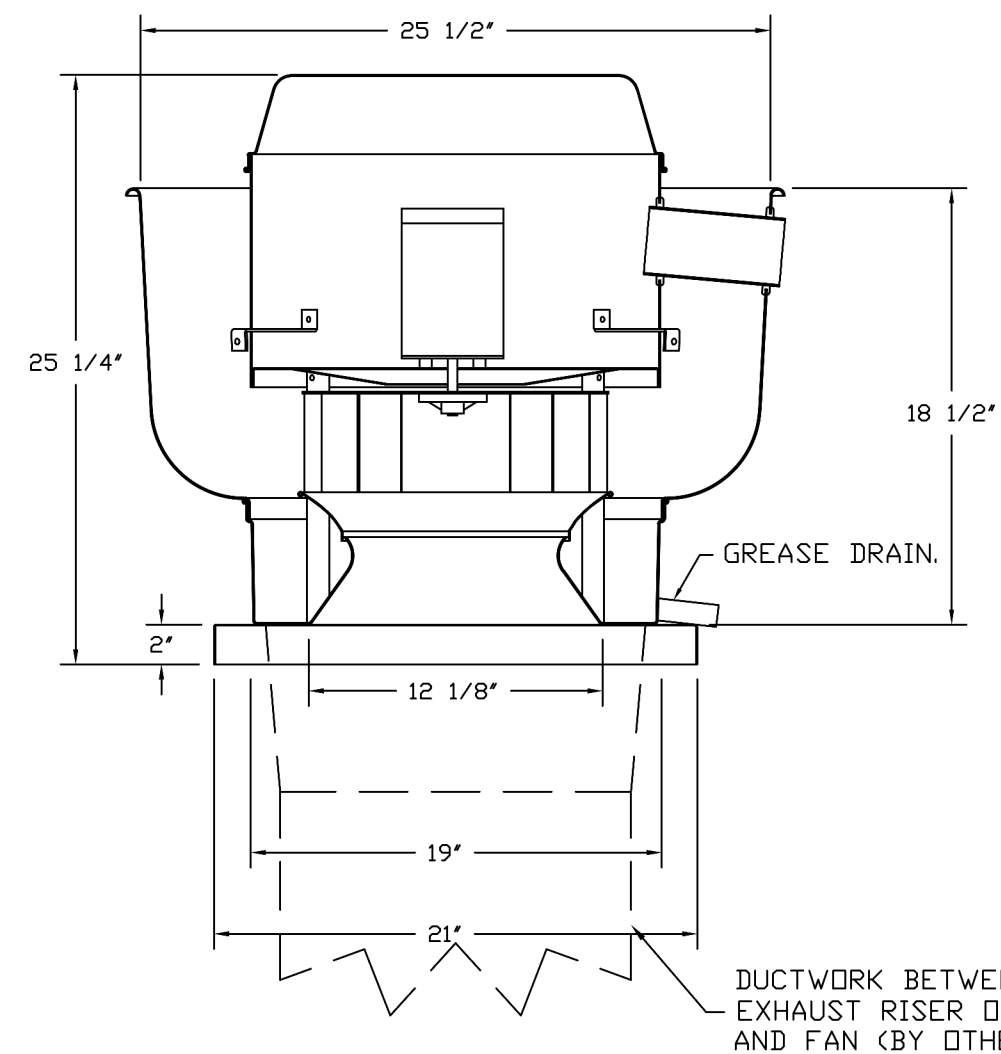
SHEET TITLE: HOOD DETAILS

SHEET NO. PROJ. NO. 2024231.06

MH106

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

FAN #4_GHDU30H - EXHAUST FAN (CF-4)



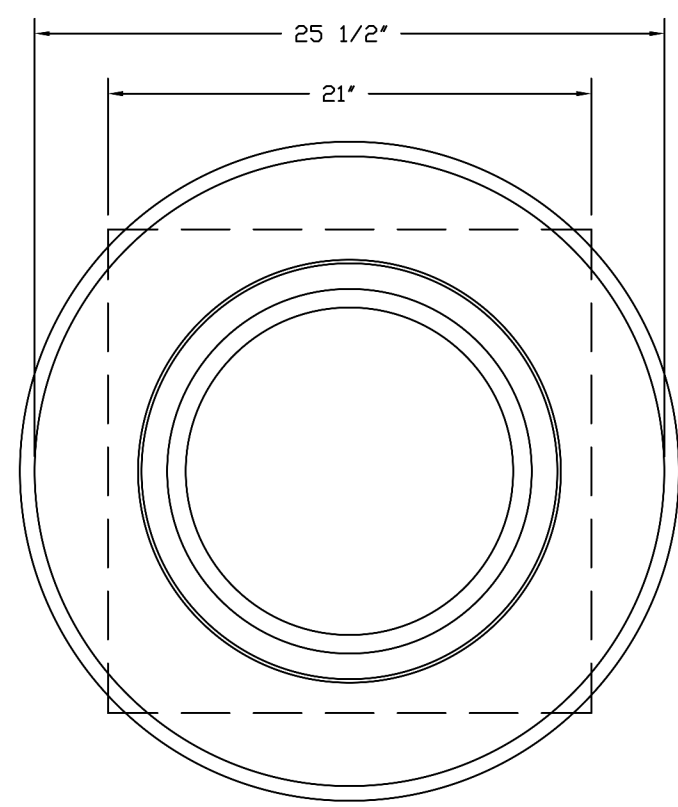
- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - RESTAURANT MODEL.
 - UL705 AND UL752 AND ULC-5645
 - VARIABLE SPEED CONTRL.
 - INTERNAL WIRING.
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
 - HIGH HEAT OPERATION 300°F (149°C).
 - GREASE CLASSIFICATION TESTING.
 - NEMA 3R SAFETY DISCONNECT SWITCH.

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.

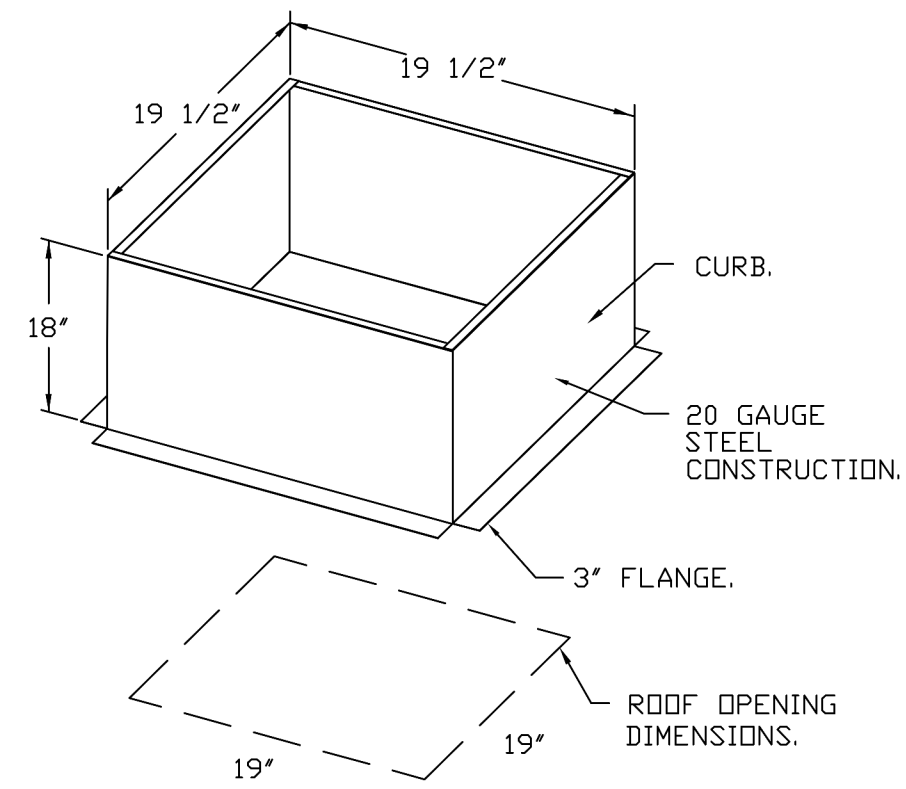
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

- OPTIONS**
- GREASE BOX.
 - FULL GRATING FOR EXHAUST FANS.
 - 2 YEAR PARTS WARRANTY.

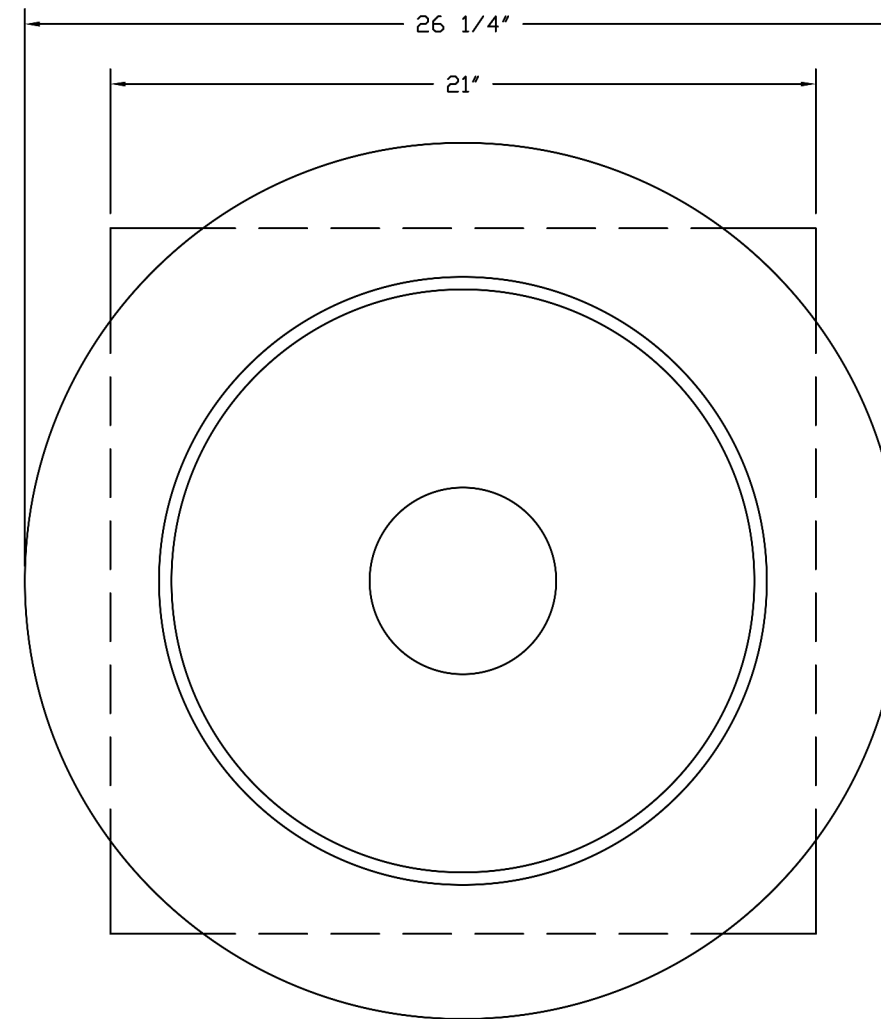
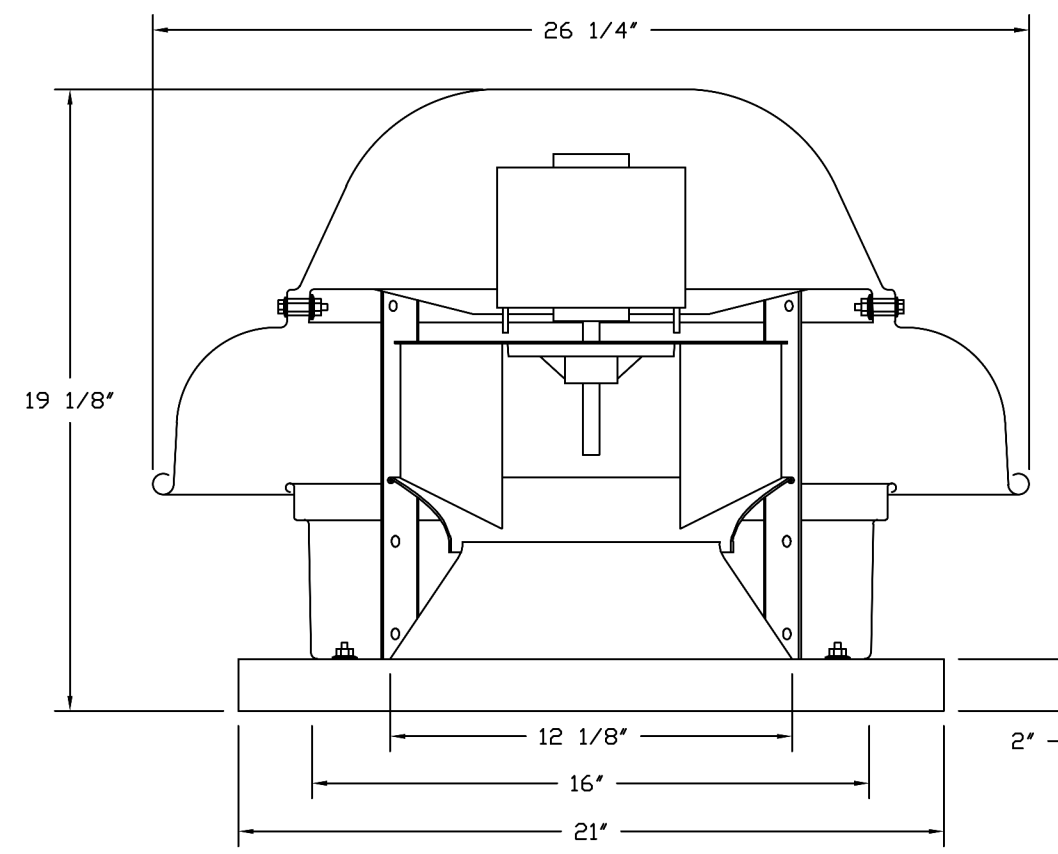
DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW



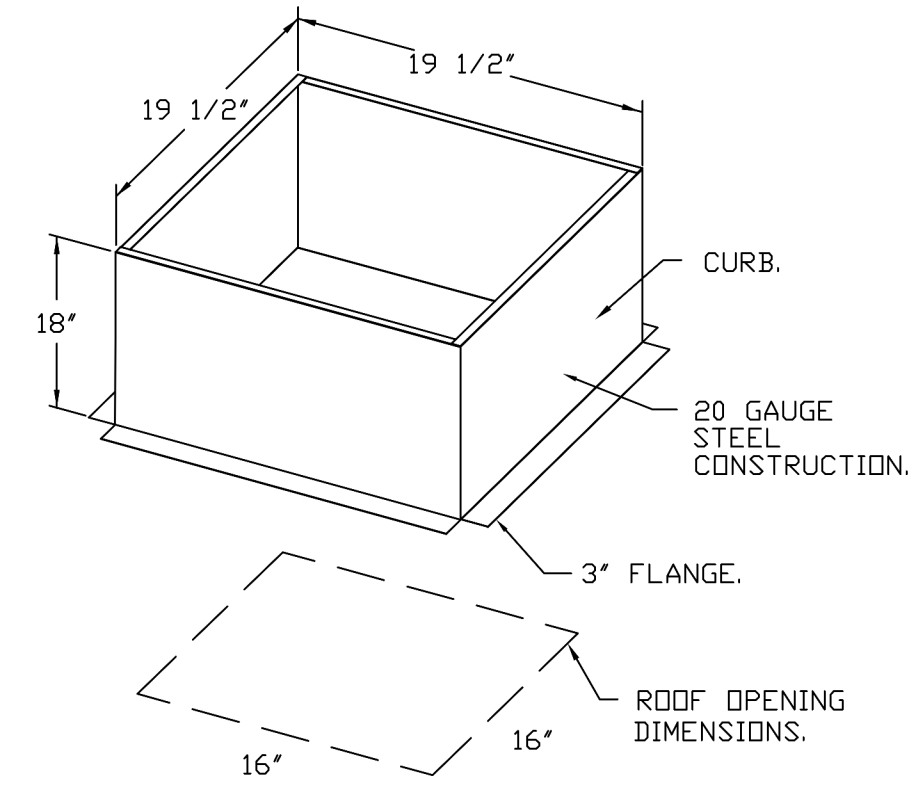
FAN #5_GHD30H - EXHAUST FAN (CF-5)



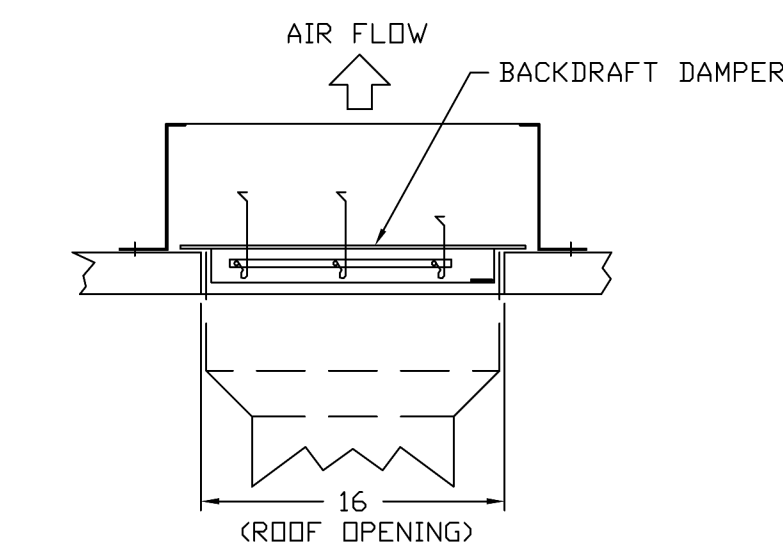
TOP VIEW

- FEATURES:**
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
 - ROOF MOUNTED FANS.
 - UL705.
 - SAFETY DISCONNECT.
 - STANDARD BIRD SCREEN.
 - SPEED CONTROL.
 - THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

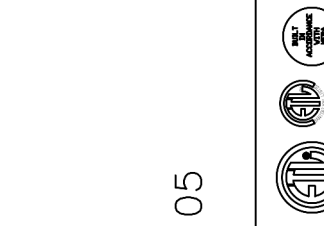
- OPTIONS**
- 1 IS-RDD DAMPER.
 - FULL GRATING FOR EXHAUST FANS.
 - 2 YEAR PARTS WARRANTY.



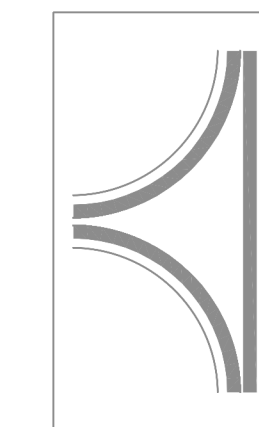
BACKDRAFT DAMPER INSTALLATION



REVISIONS	
DESCRIPTION	DATE



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Outback Steakhouse- Cullman, AL

DATE: 6/24/2024

DWG.#: 6877720

DRAWN BY: dbreidt

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 7



FOR REFERENCE ONLY

BLOOMIN' BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #1277
777 2ND AVE NW
CULLMAN, AL 35055

SHEET ISSUE:
07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

SHEET TITLE:
HOOD DETAILS

SHEET NO. PROJ. NO.
2024231.06

MH107

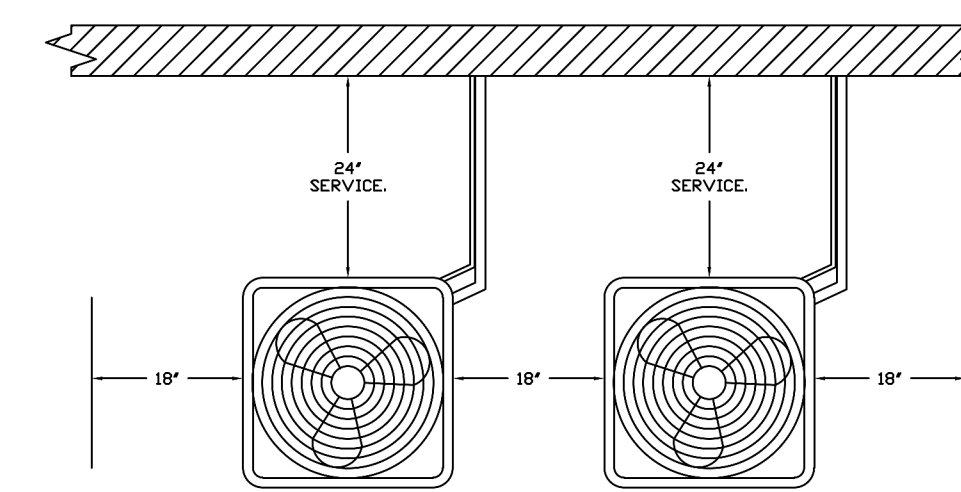
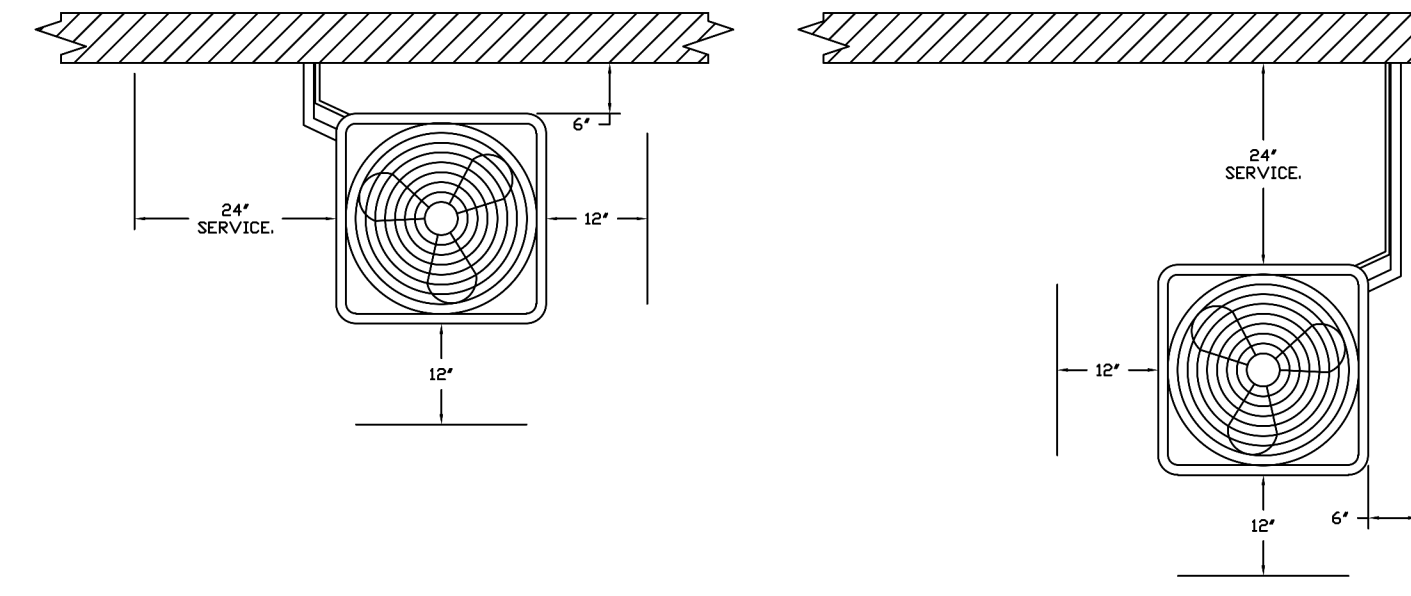
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1. FAN #6 CM-A2-D500-200-MPU - HEATER (MUA-1)
2. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
3. INTAKE HOOD WITH E2 FILTERS.
4. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
7. LOW FIRE START - ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
8. SHIP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION, 1" CONNECTION.
9. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, LF120S ACTUATOR INCLUDED.
10. FULL COATING FOR COMMERCIAL HEATERS FOR SHIPPING.
11. COMMERCIAL SMOKE DETECTOR INTERLOCK (DETECTOR BY OTHERS).
12. 9 TON TUAL CIRCUIT (2/3) MODULAR PACKAGED COOLING OPTION FOR SIZE 2 DF/EH MODULAR PACKAGED UNIT. INCLUDES CONDENSER, DX COIL, FILTER/DRYER KIT, THERMAL EXPANSION VALVE. (2,900 TO 4,800 CFM) WHEN ORDERED WITH OPPOSITE AIRFLOW CONDENSERS ACCESS AND COIL PIPING WILL REMAIN IN STANDARD POSITION. DRAIN AND SLEDS WILL MOVE TO THE OPPOSITE SIDE. ANY OTHER CHANGE WILL REQUIRE CLL CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL # 3E21101D.
13. DOWNTURN PLENUM FOR SIZE 2 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS.
14. SHIP CONDENSERS LOOSE - THE REFRIGERATION LINES WILL NEED TO BE STUBBED OUT 12 INCHES. THE SUCTION LINES NEEDS TO BE INSULATED INSIDE THE COIL MODULE. ROTARY DISCONNECT SHOULD NOT BE INSTALLED ON THE POST, BLANK POST SHOULD BE USED IN PLACE. ALL PIPING AND WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY OTHERS.
15. SIZE 2 MOISTURE ELIMINATOR OPTION FOR DX COIL, MPUS AND CHILLED WATER COILS - ALLOWS COOLING COIL FACE VELOCITY TO INCREASE TO 650 FPM. INCREASES COOLING COIL MAX CFM TO 6000 CFM.
16. BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 2 (1" MOD VALVE).
17. UNIT MOUNTED YES FOR USE WITH ESPROS.
18. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/MPU SECTION).
19. 2 YEAR PARTS WARRANTY.

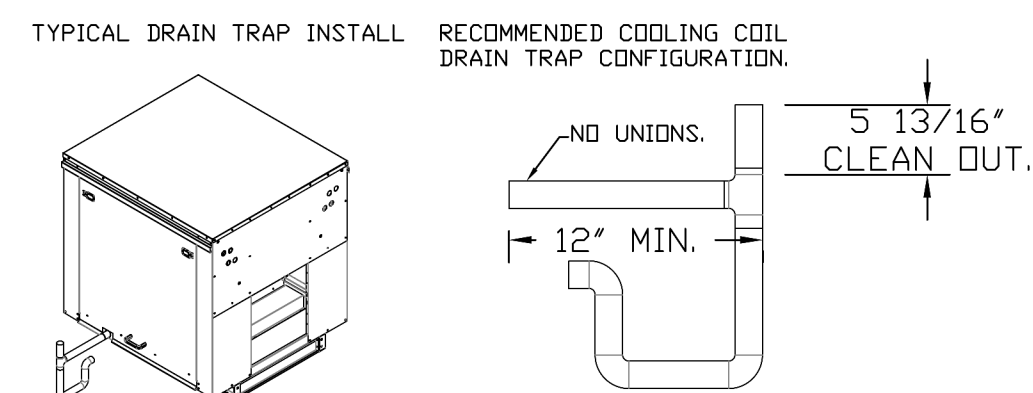
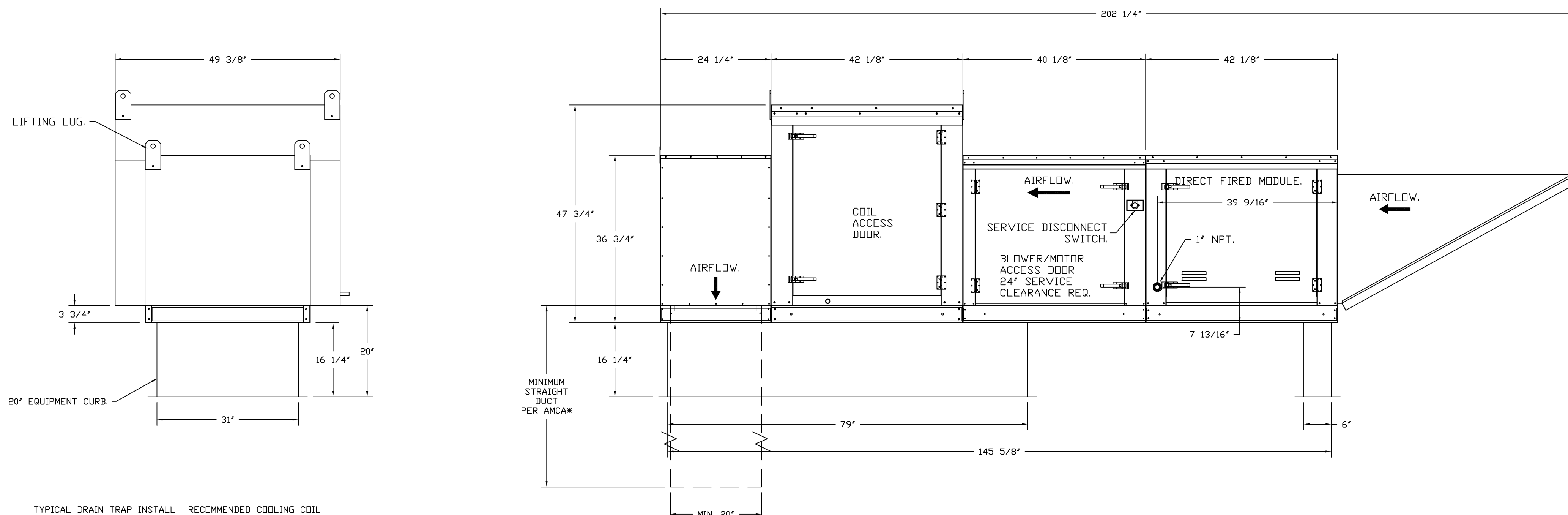
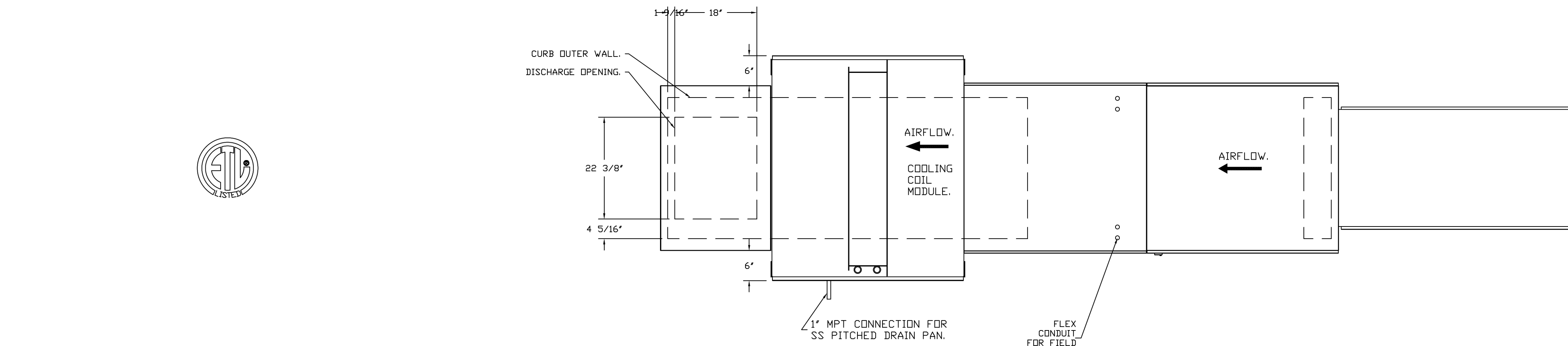
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" X 20".

NOTE: CONDENSERS SHIPPED LOOSE FOR REMOTE MOUNTING. ALL WIRING AND PIPING BETWEEN INDOOR AND OUTDOOR UNIT TO BE COMPLETED BY OTHERS.

SUPPLY SIDE HEATER INFORMATION:
 WINTER TEMPERATURE = 26°F, TEMP RISE = 48°F.
 BTUS CALCULATED OFF ACTUAL AIR DENSITY.
 OUTPUT BTUS AT ALTITUDE OF 00 FT. = 292610.
 INPUT BTUS AT ALTITUDE OF 643 FT. = 274576.
 OUTPUT BTUS AT ALTITUDE OF 643 FT. = 246796.
 INPUT BTUS AT ALTITUDE OF 643 FT. = 268256.



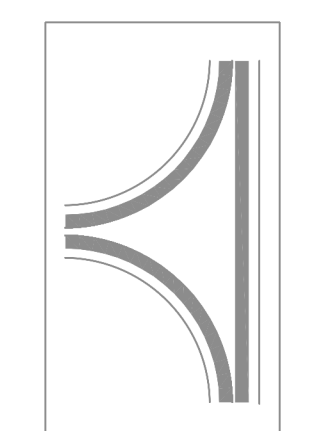
CONDENSER CLEARANCES
 48" CLEARANCE REQUIRED ABOVE CONDENSERS.
 NOTE: CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE.



- NOTES:
- 1) 1" DIAMETER PVC PIPE ONLY.
 - 2) USE ONLY LOW PROFILE COUPLINGS.
 - 3) ADD CLEAN OUT AS SHOWN.

REVISIONS	
DESCRIPTION	DATE

GREASE MASTER™
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Outback Steakhouse - Cullman, AL

DATE: 6/24/2024
 DWG.#: 6877720
 DRAWN BY: dbreidt
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING

SHEET NO. 8



FOR REFERENCE ONLY

BLOOMIN' BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE #1277
 777 2ND AVE NW
 CULLMAN, AL 35055

SHEET TITLE:
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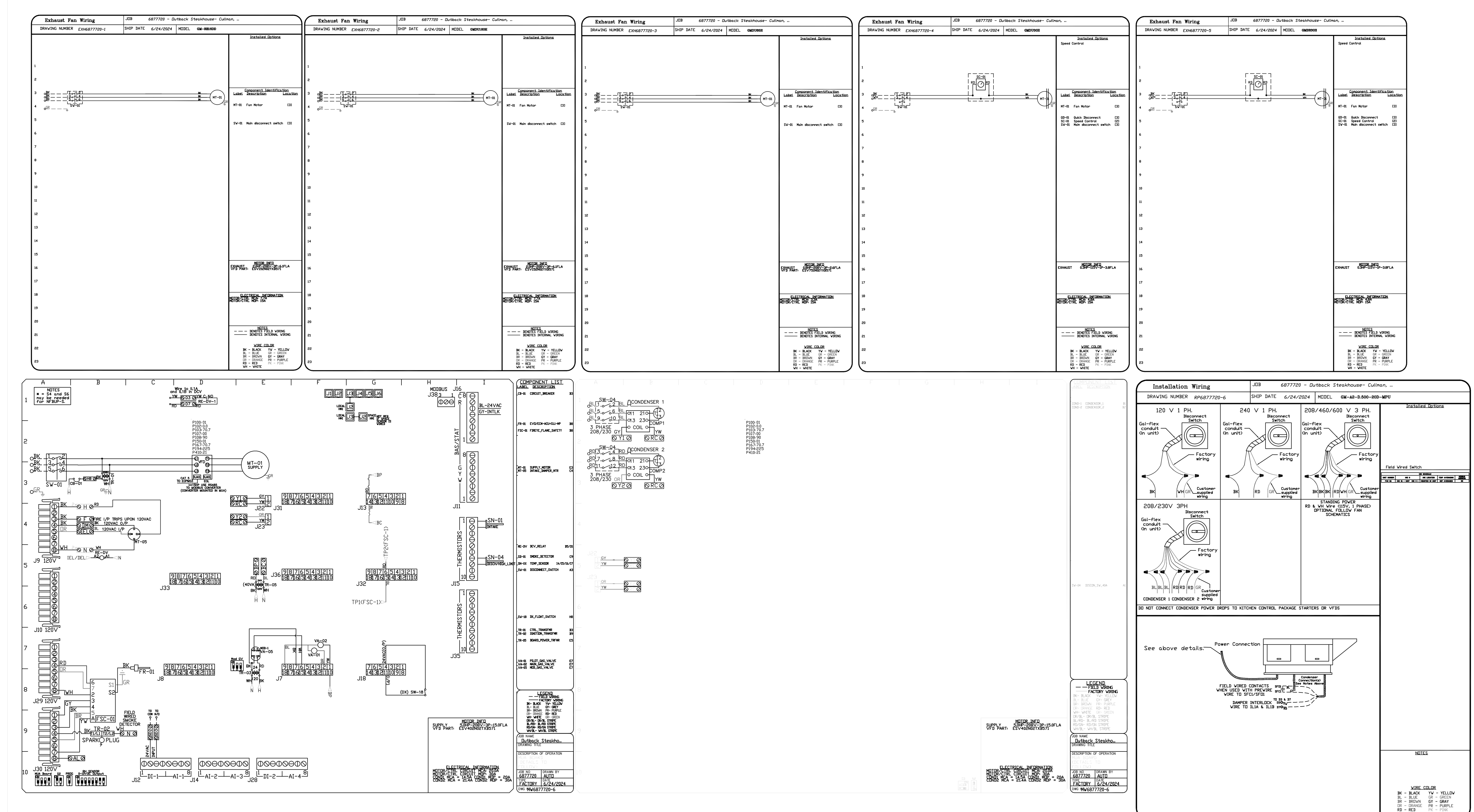
PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
 HOOD DETAILS

SHEET NO. PROJ. NO. 2024231.06

MH108

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.



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SHEET NO.
 9

FOR REFERENCE ONLY

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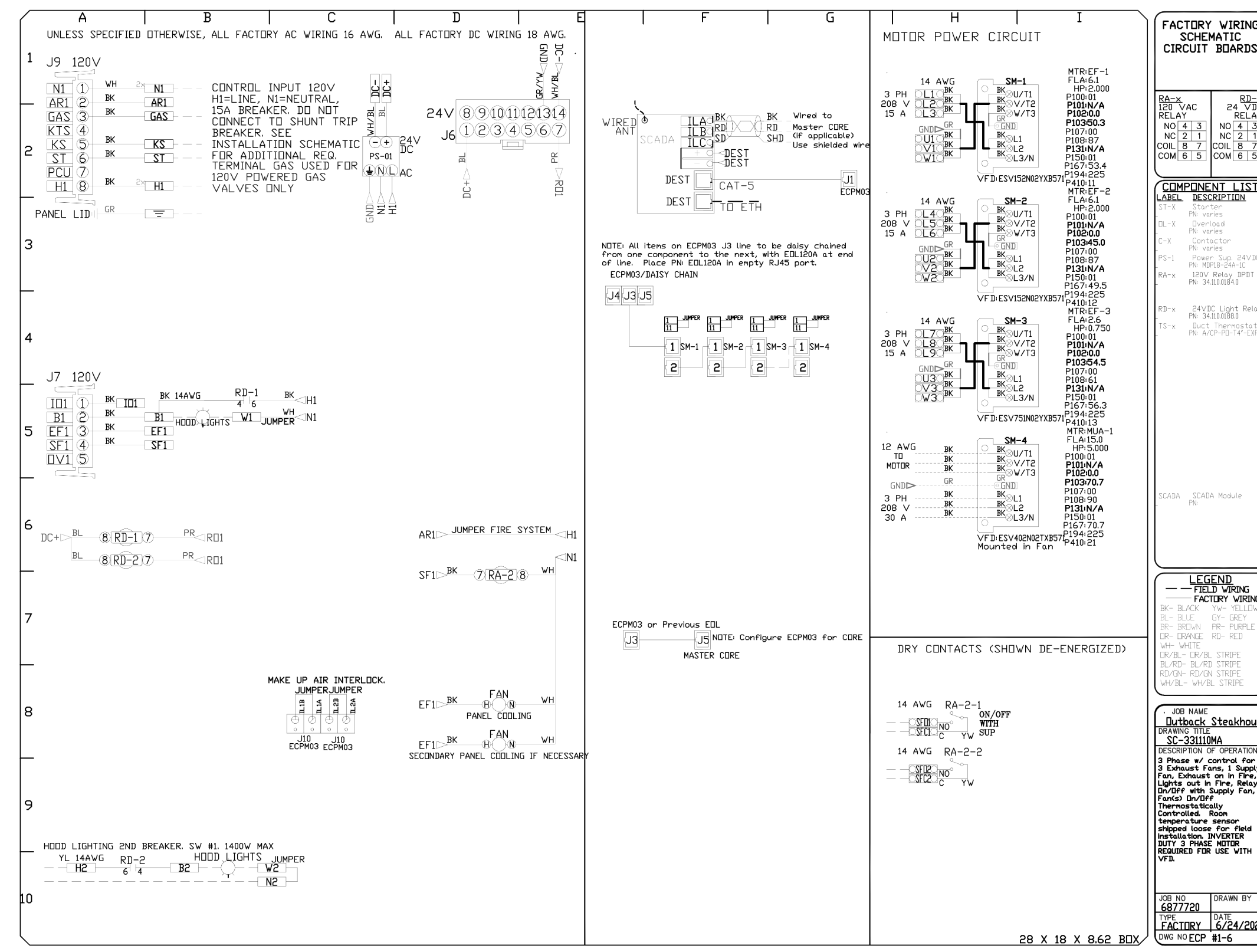
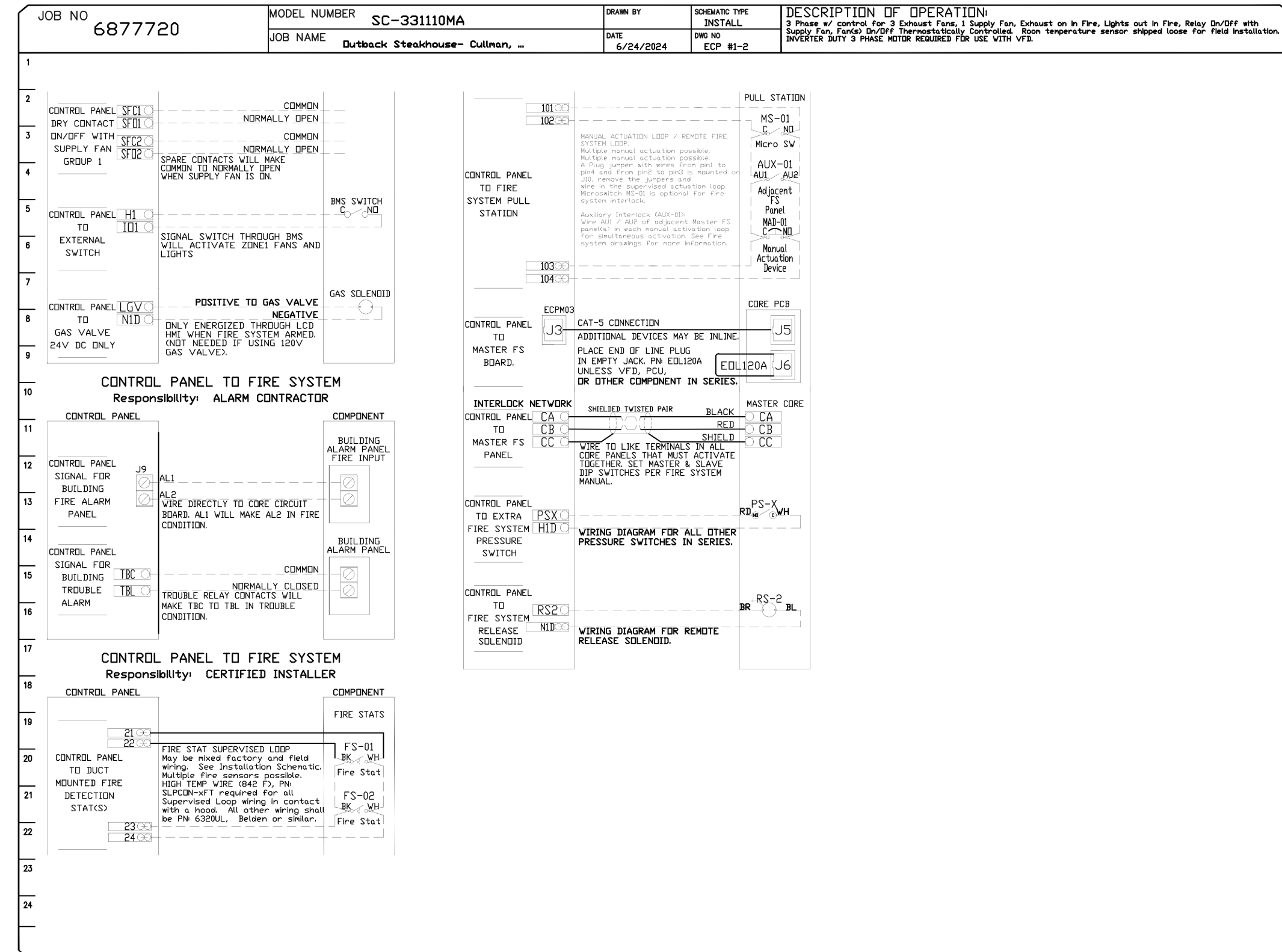
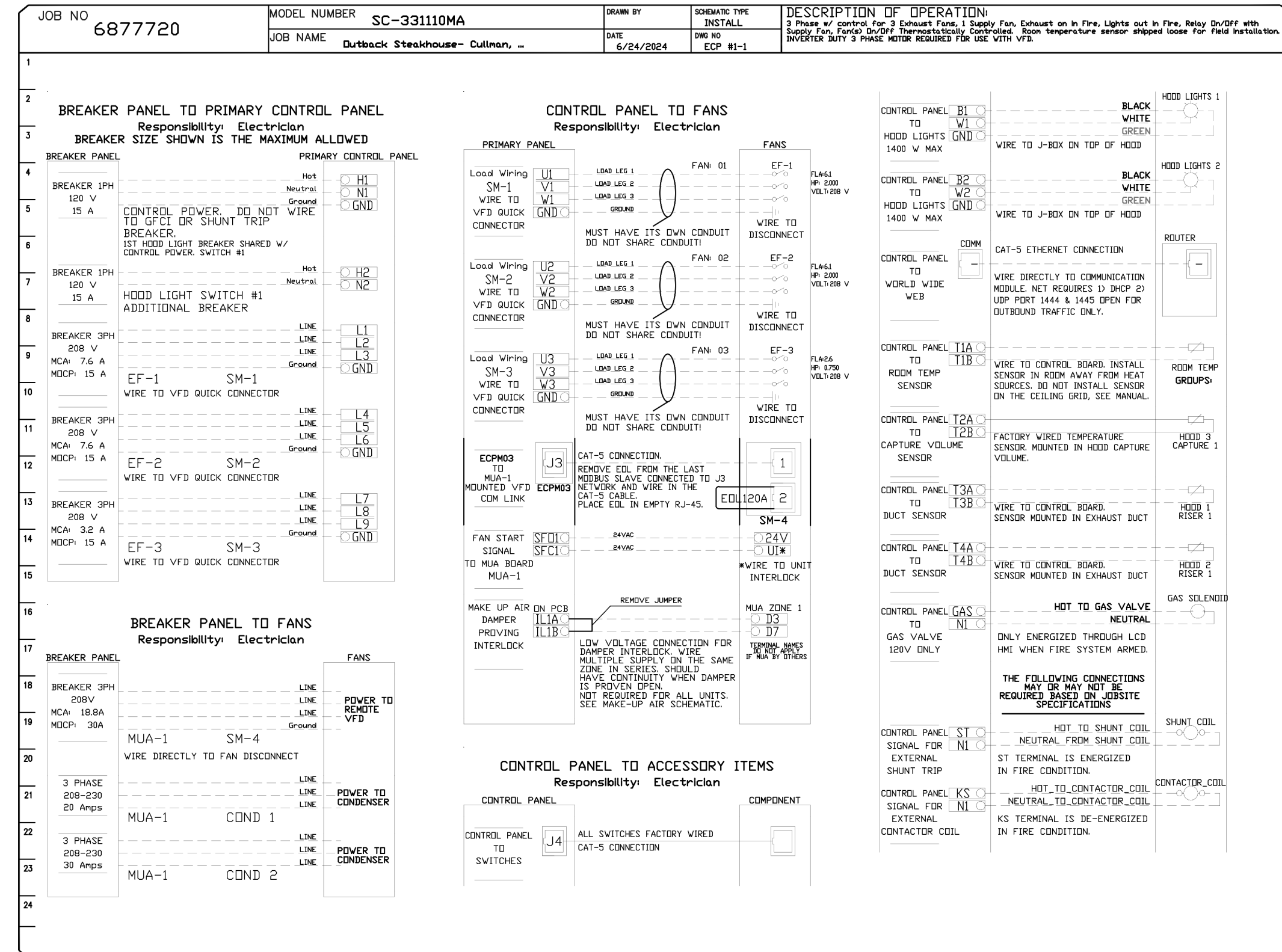
SHEET TITLE:
 HOOD DETAILS

SHEET NO. PROJ. NO.
 2024231.06

MH109

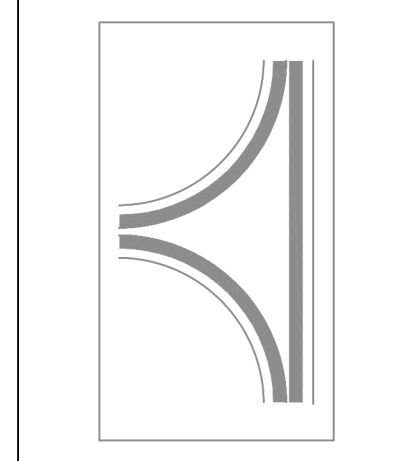
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ELECTRICAL PACKAGE - JOB#6877720												
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	HP	VOLTS	FLA	
1		SC-33110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	6.1
				HOOD # 3	1 FAN		EF-2	EXHAUST	3	2.000	208	6.1
							EF-3	EXHAUST	3	0.750	208	2.6
							MUA-1	SUPPLY	3	5.000	208	15.0



REVISIONS	
NO	DESCRIPTION

GREASE MASTER™
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 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse - Cullman, AL

DATE: 6/24/2024
 DWG #: 6877720
 DRAWN BY: dbreidt
 SCALE: 3/4" = 1'-0"
 MASTER DRAWING
 SHEET NO. 10



FOR REFERENCE ONLY

BLOOMING BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE#1277
 777 2ND AVE NW
 CULLMAN, AL 35055

SHEET ISSUE:
 07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
 HOOD DETAILS

SHEET NO. PROJ. NO.
 10 2024231.06

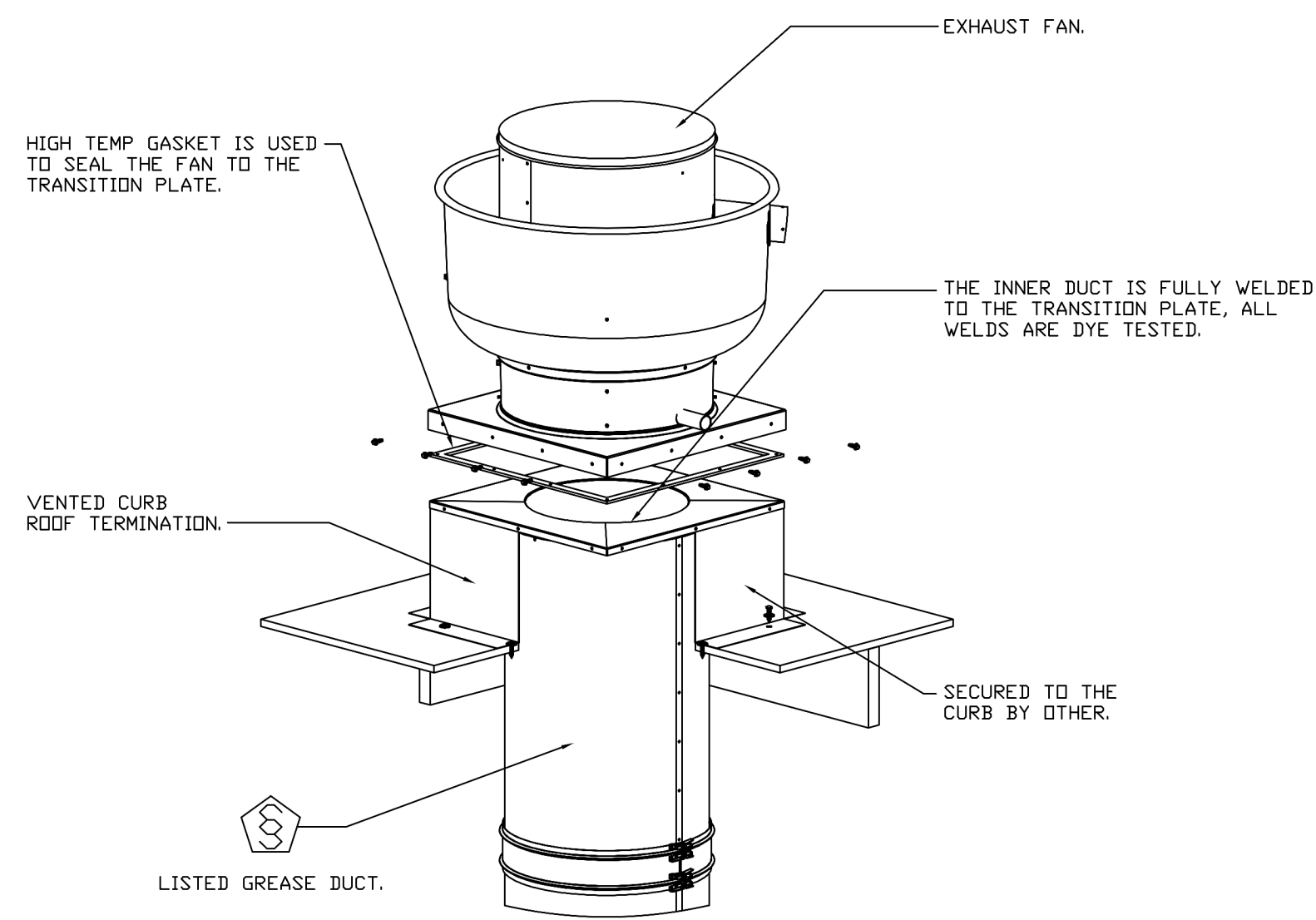
MH110

KITCHEN HOODS (HOOD MAKE-UP AIR FANS AND EXHAUST FANS) ARE PROVIDED BY THE OWNER/KITCHEN DESIGNER. QUESTIONS REGARDING INSTALLATION REQUIREMENTS OR COORDINATION SHALL BE DIRECTED TO DAVID BREIDT WITH GREASEMASTER, (888) 909-9233 X13.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO GREASEMASTER MODEL "GDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "GDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "GDW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "GDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO GREASEMASTER MODEL "GDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

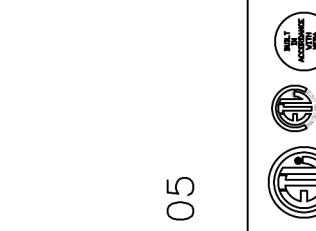
CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	
YOUR TITLE _____	DATE _____

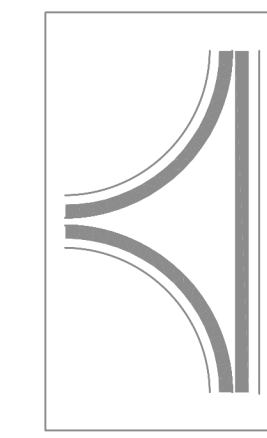


NOTE:
 DUCT NOTES FOR
 REFERENCE, DUCT TO BE
 SUPPLIED BY THE
 MECHANICAL CONTRACTOR.

REVISIONS	
DESCRIPTION	DATE



GREASE MASTER™
 608 MATTHEWS-MINT HILL RD. STE 105, MATTHEWS, NC 28105
 TELEPHONE 704-844-6907 FAX 704-844-8013
 WWW.GREASEMASTER.COM INFO@GREASEMASTER.COM



Outback Steakhouse- Cullman, AL

DATE: 6/24/2024

DWG.#: 6877720

DRAWN BY: dbreidt

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 12



FOR REFERENCE ONLY

BLOOMIN' BRANDS
 OUTBACK STEAKHOUSE
 JOEY PROTOTYPE (2023.1 RELEASE)
 STORE#1277
 727 2ND AVE NW
 CULLMAN, AL 35055

SHEET ISSUE:
 07/15/2024 ISSUED FOR PERMIT

PRINCIPAL IN CHARGE: RO
 PROJECT ARCHITECT: MS
 DRAWN BY: AB

SHEET TITLE:
 HOOD DETAILS

SHEET NO. PROJ. NO.
 2024231.06

MH112

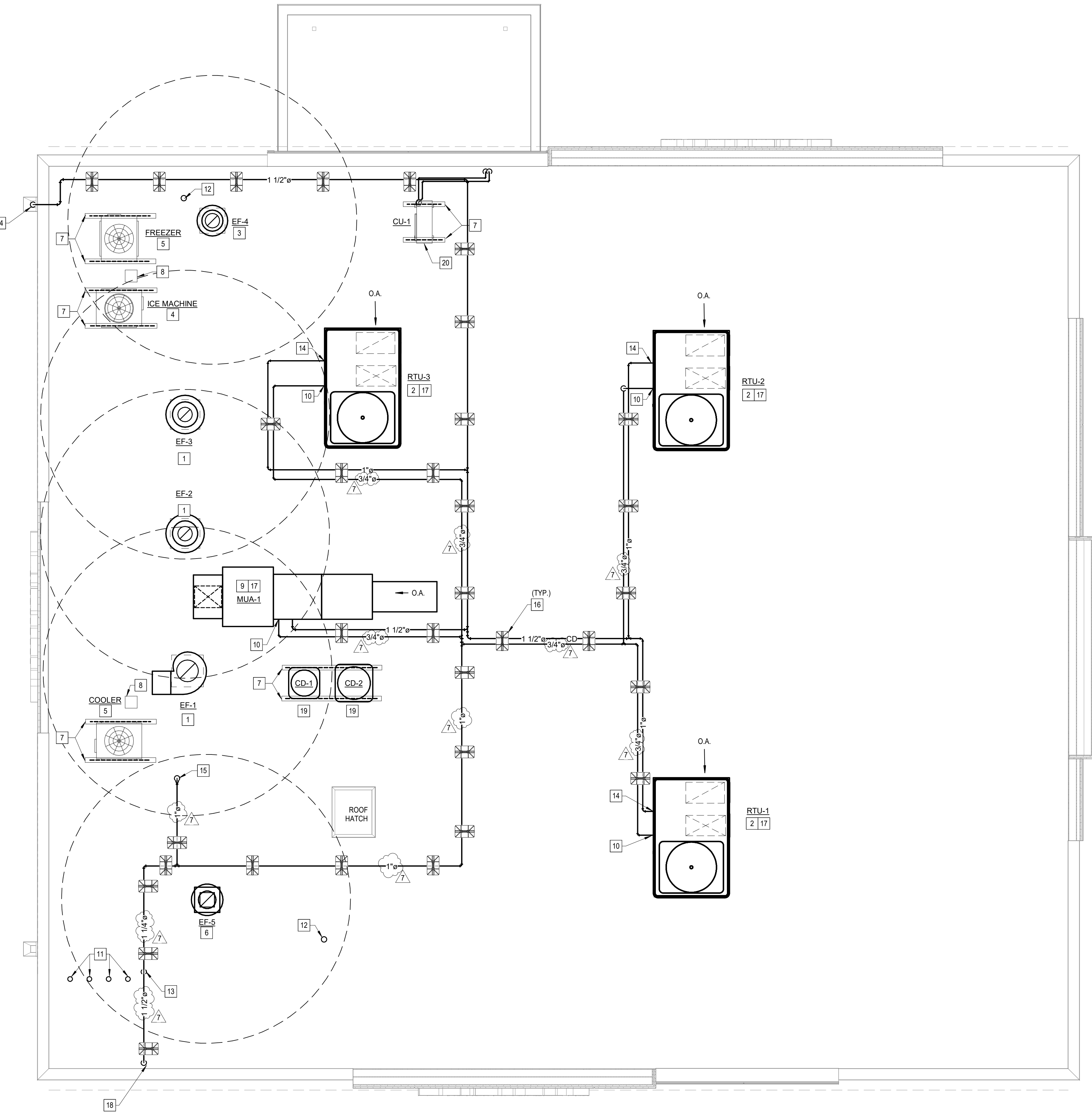
SHEET KEYNOTES

- TYPE I GREASE EXHAUST FAN. REFER TO HOOD PLANS AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. PROVIDE CODE COMPLIANT DUCTWORK AND CLEARANCES. COORDINATE FLASHING AND WEATHERPROOFING WITH GC. COORDINATE EXACT LOCATION WITH GC AND STRUCTURE.
- ROOFTOP UNIT. REFER TO SCHEDULES AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- DISHWASHER EXHAUST FAN. INTERLOCK WITH DISHWASHER CONTROLS. REFER TO HOOD PLANS AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- CONDENSING UNIT FOR ICE MACHINE. FURNISHED BY KITCHEN EQUIPMENT SUPPLIER. INSTALLED BY MC.
- CONDENSING UNITS FOR WALK-IN BOX. FURNISHED BY KITCHEN EQUIPMENT SUPPLIER. INSTALLED BY MC.
- EXHAUST FAN FOR PUBLIC RESTROOM. REFER TO SCHEDULES AND MECHANICAL PLAN FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH STRUCTURE.
- PROVIDE ROOF RAIL SUPPORT FOR REFRIGERATION CONDENSING UNIT. REFER TO ARCHITECTURAL DRAWINGS.
- GANGED REFRIGERANT LINES AND CONDUIT FROM WALK-IN UNITS THROUGH ROOF. REFER TO ARCHITECTURAL AND FOODSERVICE PLANS.
- MAKE-UP AIR UNIT. UNIT FURNISHED WITH THE HOOD EXHAUST FANS AND INSTALLED BY THE MECH CONTRACTOR.
- ROUTE GAS PIPING ALONG ROOF AND CONNECT TO MECHANICAL EQUIPMENT. CONTRACTOR SHALL PROVIDE 6" DIRT LEG, REGULATOR, GAS SHUT-OFF VALVE, AND UNION PRIOR TO FINAL CONNECTION.
- WATER HEATER CONCENTRIC VENTS THRU ROOF. OFFSETS UNDER ROOF SHOWN ON THIS PLAN FOR CLARITY. REFER ALSO TO P-102. OFFSET UNDER ROOF 24" (MIN.) FROM PARAPET AND TERMINATE 24" (MIN.) ABOVE THE TOP OF THE PARAPET. TERMINATE WITH MFR APPROVED CAP. TYPICAL.
- TERMINATE VENT THROUGH ROOF (VTR) 12" MIN. ABOVE TOP OF PARAPET. UNLESS PREVALING CODE STATES OTHERWISE. SUPPORT AS REQUIRED. BY P.C.
- GAS PIPING DOWN THROUGH ROOF TO WATER HEATERS. CONTRACTOR TO PROVIDE REGULATOR. REFER TO P102 AND P203 FOR ADDITIONAL INFORMATION.
- ROUTE CONDENSATE DRAIN TO NEAREST ROOF DRAIN. ENSURE THAT NO PART OF PIPING, INCLUDING SUPPORTS, INTERFERES WITH ROOF OR OVERFLOW SCUPPERS AND ROOF DRAINAGE.
- GAS PIPING DOWN THROUGH ROOF TO KITCHEN EQUIPMENT BELOW. CONTRACTOR TO PROVIDE REGULATOR. REFER TO P102 AND P203 FOR ADDITIONAL INFORMATION.
- CONDENSATE SUPPORT. REFER TO DETAIL ON SHEET P202 (TYPICAL).
- REFER TO SHEET M001 FOR SCHEDULES AND MECHANICAL EQUIPMENT & FOR WEIGHTS. REFER TO HOOD DRAWINGS FOR EXHAUST FANS AND MAKE-UP AIR UNIT WEIGHTS.
- GAS PIPING UP THROUGH ROOF UTILIZING PATE PIPE CURB AND PIPE ACROSS ROOF.
- CONDENSING UNIT MOUNTED ON ROOF. EXTEND RS AND RL PIPING TO CONDENSING UNIT AND CONNECT AS REQUIRED. TYP.

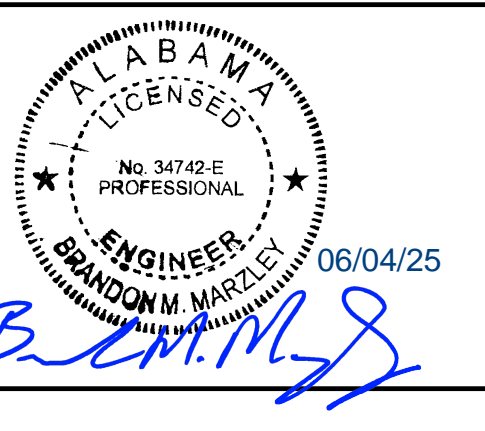
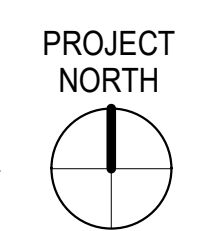
MP GENERAL NOTES

- THE TERM "CONTRACTOR" IS USED TO LAY OUT THE GENERAL CONTRACTOR'S (GC) ULTIMATE RESPONSIBILITIES. THE GC SHALL BE RESPONSIBLE FOR ALL WORK AND FOR COORDINATING THE WORK AND RESPONSIBILITIES OF MECHANICAL, ELECTRICAL, PLUMBING, FIRE, AND OTHER SUB-CONTRACTORS. CONTRACTOR SHALL ALSO COORDINATE WORK WITH THE OWNER'S CONSTRUCTION MANAGER OR REPRESENTATIVE AND WITH VENDORS SUPPLYING EQUIPMENT.
- CONTRACTOR AND ALL SUB-CONTRACTORS SHALL BE FULLY LICENSED WITH STATE AND MUNICIPALITY WHERE REQUIRED AND SHALL BE EXPERIENCED IN ALL AREAS OF THEIR WORK. CONTRACTORS SHALL BE FAMILIAR WITH LOCAL CODES AND REQUIREMENTS AFFECTING THEIR WORK.
- ALL WORK SHALL BE COMPLETE, FULLY FUNCTIONAL, AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES. THE INTERNATIONAL ENERGY CONSERVATION CODE AND WITH THE AUTHORITIES HAVING JURISDICTION (A.H.J.). APPLY TO THE ARCHITECT FOR A COPY OF RELEVANT SECTIONS OF THE BELOW CODES AND STANDARDS IF REQUIRED. ANY WORK IN VIOLATION OF THE BELOW CODES SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER. COMPLY WITH THE MOST CURRENT STANDARDS OF THE CODES LISTED ON COVER SHEET AND THE FOLLOWING:
 - A. 2017 ICC/A1171, ANSI STANDARDS FOR ACCESSIBLE DESIGN
 - B. NFPA 13 - INSTALLATION OF SPRINKLER SYSTEMS
 - C. NFPA 54 - NATIONAL FUEL GAS CODE
 - D. NFPA 72 - NATIONAL FIRE ALARM CODE
 - E. NFPA 96 - VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
 - F. NFPA 101 - LIFE SAFETY CODE
 - G. LOCAL HEALTH DEPARTMENT
 - H. STATE FIRE MARSHAL
 - I. OSHA CODE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- MATERIALS, EQUIPMENT, APPLIANCES, AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST STANDARDS OF:
 - A. AGA - AMERICAN GAS ASSOCIATION
 - B. AMCA - AIR MOVING AND CONDITIONING ASSOCIATION
 - C. ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
 - D. ADA - AMERICANS WITH DISABILITIES ACT
 - E. ARI - AIR CONDITIONING AND REFRIGERATION INSTITUTE
 - F. ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
 - G. ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
 - H. ASSE - AMERICAN SOCIETY OF SAFETY ENGINEERS
 - I. ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
 - J. AWWA - AMERICAN WATER WORKS ASSOCIATION
 - K. CBMA - CERTIFIED BALLAST MANUFACTURERS ASSOCIATION
 - L. ETL - ENVIRONMENTAL TESTING LABORATORY
 - M. FM - FACTORY MUTUAL
 - N. IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
 - O. IES - ILLUMINATING ENGINEERING SOCIETY
 - P. IPCEA - INSULATED POWER CABLE ENGINEERS ASSOCIATION
 - Q. ISS - MANUFACTURERS STANDARDIZATION SOCIETY
 - R. NBBPVI - NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS
 - S. NECA - NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
 - T. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
 - U. NSF - NATIONAL SANITATION FOUNDATION
 - V. PDI - PLUMBING AND DRAINAGE INSTITUTE
 - W. SMACNA - SHEET METAL & AC CONTRACTORS' NATIONAL ASSOCIATION
 - X. UL - UNDERWRITERS LABORATORIES INC.
- MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECT, AND BEAR UNDERWRITERS LABORATORIES (U.L.) LABEL OR OTHER NATIONALLY RECOGNIZED TESTING AGENCY WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED. PROVIDE COMPLETE WITH ALL TRIM AND OPTIONS REQUIRED FOR PROPER OPERATION. UNLESS NOTED OTHERWISE.
- ALL INFORMATION INDICATED ON THESE DRAWINGS HAS BEEN OBTAINED FROM EXISTING PLANS, REPORTS, AND PHOTOS FROM OTHERS, AND/OR FROM SITE SURVEYS. THE CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL WORK SHOWN ON THESE DRAWINGS WITH EXISTING CONDITIONS, PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT AND MATERIAL.
- THESE PLANS AND SPECIFICATIONS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE AND DO NOT SHOW ALL DETAILS, DEVICES, AND METHODS OF CONSTRUCTION REQUIRED IN ORDER TO ACHIEVE A FIRST CLASS, WORKMANLIKE, CODE COMPLIANT RESULT. DO NOT SCALE PLANS.
- ALL OVERHEAD UTILITIES INCLUDING BUT NOT LIMITED TO CONDUIT, SPRINKLER PIPE, ROOF DRAINS ARE TO BE RAN PARALLEL OR PERPENDICULAR TO STRUCTURE AT ALL OPEN CEILING AREAS.
- PRIOR TO SUBMITTING A FINAL BID, CONTRACTORS WILL CONFIRM THAT THE CONTRACTOR HAS COMPLIED WITH THE BELOW REQUIREMENTS. NO EXTRAS WILL BE ALLOWED FOR EXISTING CONDITIONS WHICH HAVE BEEN RECENTLY OBSERVED OR INFERRED FROM THE EXISTING CONDITIONS OR FROM THE PLANS.
 - A. STUDY THE NEW CIVIL, (WHERE APPLICABLE), ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS AND SPECIFICATIONS.
 - B. VISIT THE SITE AND PERFORM A THOROUGH EXAMINATION AND EVALUATION OF ALL EXISTING CONDITIONS.
 - C. NOTIFY THE ARCHITECT IN WRITING OF ANY SIGNIFICANT DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND THE DOCUMENTS NOTED ABOVE.
 - D. CONTACT THE ARCHITECT OR THE ENGINEER IF FURTHER DIRECTION OR ADDITIONAL EXPLANATION IS REQUIRED ON ANY ITEM.
 - E. INCLUDE AN ALLOWANCE IN THE BID TO COVER ANY ADDITIONAL COST DUE TO NOTED DISCREPANCIES, EXISTING CONDITIONS, OBSERVATIONS, ETC.
- CONTRACTOR SHALL PAY FOR AND OBTAIN PERMITS REQUIRED FOR WORK AND SHALL SCHEDULE INSPECTIONS WITH A.H.J. IN A TIMELY MANNER TO ALLOW COMPLETION OF PROJECT ON SCHEDULE.
- THE FIRE DETECTION (WHERE REQUIRED) AND FIRE PROTECTION (SPRINKLER) SYSTEMS SHALL BE DESIGN / BUILT BY A STATE LICENSED, LOCALLY EXPERIENCED, FIRE ALARM AND FIRE SPRINKLER SUB-CONTRACTORS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SUBMIT PLANS IN ACCORDANCE WITH N.F.P.A., N.E.C. AND LOCAL CODE AND OBTAIN APPROVAL FROM THE FIRE MARSHAL OR A.H.J. DO NOT REUSE THE EXISTING DETECTORS AND DEVICES WITHOUT THE EXPRESS, WRITTEN, APPROVAL OF THE AUTHORITY.
- UTILITY INFORMATION SHOWN ON THE PLANS ARE FROM PRELIMINARY CONTACT WITH THE RESPECTIVE UTILITIES AND/OR FROM INFORMATION PROVIDED BY OTHERS. THE CONTRACTORS SHALL CONTACT THE UTILITY COMPANIES PRIOR TO BIDDING TO OBTAIN THE MOST UP TO DATE INFORMATION AND INSTALLATION REQUIREMENTS. PAY ALL PERMIT, CONNECTION, METER, AND OTHER FEES. REPORT ANY DISCREPANCY TO THE ARCHITECT OR ENGINEER. INCLUDE ALL COSTS IN THE BASE BID.
- CONTRACTOR SHALL REQUEST UTILITY COMPANIES LOCATE AND MARK ALL UNDERGROUND WATER PIPES, SANITARY SEWERS, GAS PIPES, ELECTRICAL AND COMMUNICATIONS CONDUITS AND DUCT BANKS, ETC. PRIOR TO DIGGING OR TRENCHING ON SITE. CONTRACTOR SHALL BE FULLY RESPONSIBLE AND BEAR COST FOR REPAIRING ANY UTILITY DAMAGE ON SITE.
- REVIEW PLANS AND SPECIFICATIONS. VERIFY ALL CONNECTION POINTS, DIMENSIONS, AND FIELD CONDITIONS, AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT OR ENGINEER FOR CLARIFICATION PRIOR TO ORDERING MATERIALS OR PERFORMING ANY WORK IN QUESTION.
- WHERE A DISCREPANCY MAY EXIST BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT IS DESCRIBED BY NOTE OR SPECIFICATION, THE CONTRACTOR SHALL PROVIDE THE GREATER QUANTITY, THE BETTER QUALITY, THE MORE STRINGENT, AND GREATER COST ITEMS OR REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO SUBMITTING FINAL BID. CONTACT ARCHITECT PRIOR TO FINAL BID FOR CLARIFICATION IF ANY DISCREPANCY IS FOUND.
- CONTRACTOR SHALL CAREFULLY INSPECT ALL EQUIPMENT RECEIVED AND VERIFY THAT IT IS COMPATIBLE WITH THE MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS PRIOR TO INSTALLING EQUIPMENT. CONTACT ARCHITECT OR ENGINEER FOR DIRECTION IF ANY DISCREPANCY ARISES.
- ALL MATERIAL AND EQUIPMENT SHALL FIT IN THE SPACE AVAILABLE. ALL DIMENSIONS AND CLEARANCES SHALL BE VERIFIED AT THE FACILITY BEFORE COMMENCING WORK. ALL WORKING CLEARANCES AROUND EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- ALL INSTALLED SYSTEMS, EQUIPMENT, DEVICES, AND APPURTENANCES SHALL BE TESTED IN PLACE TO CONFIRM THAT IT MEETS CODE AND THESE PLANS AND SPECIFICATIONS. REPLACE ALL CONTRACTOR FURNISHED ITEMS AT CONTRACTOR'S EXPENSE PRIOR TO CALLING FOR FINAL INSPECTION OR SUBMITTING FOR FINAL PAYMENT.
- SUBMITTALS AND SUBSTITUTIONS: THE CONTRACTOR SHALL SUBMIT INFORMATION TO THE OWNER FOR ALL EQUIPMENT, DEVICES, AND PIPING COMPONENTS INTENDED TO BE PROVIDED FOR THIS PROJECT WITHIN 15 BUSINESS DAYS FROM CONTRACT AWARD. IT SHALL BEAR THE GC'S REVIEW STAMP. HIGHLIGHT SUBSTITUTIONS FOR EQUIPMENT AND MATERIALS AND WARRANT THAT SUBSTITUTED EQUIPMENT IS EQUAL TO THAT SPECIFIED.
- MATERIALS USED IN AIR PLENUMS, DUCTS, AIR HANDLING EQUIPMENT, AND WHERE REQUIRED BY A.H.J. SHALL HAVE A MAXIMUM FLAME SPEED OF 25 AND SMOKE DEVELOPMENT OF 50 AS TESTED IN ACCORDANCE WITH NFPA-255, UL723, AND ASTM E84. DO NOT USE PVC IN RETURN AIR PLENUMS. USE ONLY PLENUM RATED MATERIALS IN RETURN AIR PLENUMS AND REQUIRED SPACES.
- ALL PIPING, CONDUIT, DUCT, ETC. SHALL BE PROPERLY SUPPORTED FROM STRUCTURE. PIPE HANGERS AND SUPPORTS SHALL COMPLY WITH MSS SP-58-2009. INSTALLATION METHODS SHALL COMPLY WITH MSS SP-2009. PROTECT INSULATION WITH SECTION OF CALCIUM SILICATE PIPE INSULATION AND A HALF-ROUND SHEET METAL SHIELD ON THE OUTSIDE OF INSULATION. SHIELD SHALL BE 12" LONG OR SHALL EXTEND 2" BEYOND EITHER SIDE OF HANGER IF LONGER.
- CONTRACTOR SHALL USE EXTREME CARE IN SELECTION AND MOUNTING METHODS FOR INSTALLATION OF EQUIPMENT TO INSURE THAT NOISE AND VIBRATION ARE HELD TO A MINIMUM. USE VIBRATION ISOLATORS, SPRINGS, DAMPENING MATERIALS, ETC. WHERE REQUIRED. ON MOTOR DRIVEN SYSTEMS EXCEEDING 12 HP, PROVIDE VIBRATION ISOLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER OR EQUAL TO KINETICS NOISE CONTROL WHERE NO RECOMMENDATION IS MADE.
- REFER TO ARCHITECT'S SPECIFICATIONS AND NOTES FOR CUTTING, TRENCHING, AND PATCHING. PAINT ALL CONDUIT, PIPING, DUCTS, AND DEVICES EXPOSED TO PUBLIC PER ARCHITECTURAL PLANS OR TO MATCH ADJACENT BUILDING SURFACE, UNLESS NOTED OTHERWISE.
- UNLESS OTHERWISE SPECIFIED, ALL REQUIRED CUTTING AND PATCHING OF FLOORS, WALLS, ROOF, PARTITIONS AND OTHER MATERIALS IN THE BUILDING IS TO BE INCLUDED IN THE SCOPE. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION UPON COMPLETION. ALL PENETRATIONS OF WALLS, CEILINGS, OR FLOORS SHALL BE CORE-DRILLED, SLEEVED, AND SEALED TO COMPLY WITH RESPECTIVE BUILDING CODE REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE RATED WALL SHALL COMPLY WITH LISTED SLEEVE ASSEMBLY REQUIREMENTS. ROOF PENETRATIONS SHALL COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS. REFER ALSO TO ARCHITECTURAL REQUIREMENTS FOR WATER-PROOFING.

NOTE:
REFER TO SHEET P203 FOR
GAS PIPE SIZES



MECHANICAL AND PLUMBING ROOF PLAN
1/4" = 1'-0"



BLOOMING BRANDS
OUTBACK STEAKHOUSE
JOEY PROTOTYPE (2023.1 RELEASE)
STORE #1277
737 2ND AVE. NW
CULLMAN, AL 35055

SHEET ISSUE:

07/15/2024	ISSUED FOR PERMIT
11/01/2024	PLAN REVIEW COMMENTS & PROTOTYPE UPDATES
06/04/2025	GAS FIELD REVISION

PRINCIPAL IN CHARGE: RO
PROJECT ARCHITECT: MS
DRAWN BY: AB

MECHANICAL AND PLUMBING ROOF PLAN

SHEET NO. PROJ. NO. 202421.06

MP200