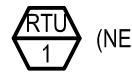
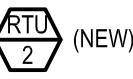
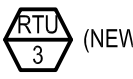














PACKAGED ROOF TOP UNIT SCHEDULE				(CARRIER MODELS TO BE SPECIFIED) (LO NoX in California)	
UNIT SYMBOL		 (NEW)	 (NEW)	 (NEW)	
LOCATION		ROOF	ROOF	ROOF	
BLOWER	CFM	4,000 (10-TON)	4,000 (10-TON)	4,000 (10-TON)	
	TSP (IN W.G.)	0.7"	0.7"	0.7"	
COOLING	TOTAL (BTU/HR)	113,350	113,350	113,350	
	SENSIBLE (BTU/HR)	91,540	91,540	91,540	
	AMBIENT (F)	100	100	100	
	COIL ENTERING	66 WB/80 DB	66 WB/80 DB	66 WB/80 DB	
HEATING (BTU/HR)		180,000 (INPUT) / 148,000 (OUTPUT)	180,000 (INPUT) / 148,000 (OUTPUT)	180,000 (INPUT) / 148,000 (OUTPUT)	
ELECTRICAL	POWER SUPPLY	208V/3Ph/60HZ	208V/3Ph/60HZ	208V/3Ph/60HZ	
	COMPRESSOR (RLA)	(2) 15.9	(2) 15.9	(2) 15.9	
	CONDENSER MOTOR (FLA)	(1) 6.2	(1) 6.2	(1) 6.2	
	EVAPORATOR MOTOR (FLA)	10.0	10.0	10.0	
	MIN. CIRCUIT AMPACITY	52, HACR = 60	52, HACR = 60	52, HACR = 60	
PRICING ORDERING AND DELIVERY CONTACT: THERESA DAWSON PHONE: 949-309-9815 E-MAIL: Theresa.Dawson@carrier.utc.com		BY CARRIER 48HC***** DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1504 LBS APPROX. SEER=N/A EER=11.5, AFUE=82%	BY CARRIER 48HC***** DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1504 LBS APPROX. SEER=N/A EER=11.5, AFUE=82%	BY CARRIER 48HC***** DOWN DISCHARGE, ELECTRONIC PROGRAMMABLE THERMOSTAT, ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF. COMB. FAN MOTOR 0.48 AMPS (DOES NOT OPERATE WITH COMPRESSOR). OPER. WT. : 1504 LBS APPROX. SEER=N/A EER=11.5, AFUE=82%	
ALL ITEMS RELATED TO HVAC SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR, CONTACT CARRIER REPRESENTATIVE ABOVE. - THERMOSTATS: REMOTE SENSOR TYPE, 24/7 PROGRAMMABLE AND CAPABLE OF OPERATING ROOFTOP UNITS AND ACCESSORIES "CARRIER" COMFORT PRO 33CS PROVIDE REMOTE SENSOR FOR EACH THERMOSTAT - DUCT MOUNTED SMOKE DETECTORS: IONIZATION TYPE/UL LISTED, CSFM CERTIFIED, 24 VAC, BY EDWARDS, DH HOUSING WITH 1551F SENSOR, MECHANICAL CONTRACTOR SHALL ADDITIONALLY PROVIDE AND INSTALL ALL REMOTE RESETS, STROBES, AND ALARMS IF REQUIRED BY CODE & INSPECTOR NOTE: 1. 3.8 AMPS (10 TON) ECONOMIZER INCLUDED IN ELECTRICAL TOTAL MCA PER MANUFACTURER'S LITERATURE. 2. UNIT WEIGHTS ABOVE INCLUDE ACCESSORIES AND CURB. 3. FACTORY OPTIONS SHALL INCLUDE E-COAT INTERIOR COIL, ALUCU -LOUVERED HAIL GUARD PROTECTION FOR ALL UNITS. 4. FACTORY OPTIONS SHALL INCLUDE FACTORY INSTALLED DISCONNECTS AND CONVENIENCE OUTLETS (FIELD POWERED REFER TO ELECTRICAL DRAWINGS). 5. PROVIDE THRU THE BASE ELECTRICAL CONNECTION KIT #CRBTPMWR002A01 FOR ALL UNITS. 6. MOUNT NEW UNITS ON EXISTING ROOF CURBS. PROVIDE CURB ADAPTERS AS REQUIRED. COORDINATE EXACT LOCATIONS OF UNITS IN FIELD.					




MARK	MFR/ MODEL	LOCATION	SERVICE AREA	GAS HEAT	TYPE	COOLING	CFM	ESP	MOTOR	REMARKS
MA-1	CAPTIVEAIRE EA3-D.500-G18-MPU	ROOF-TOP	KITCHEN HOOD #1 & #2	INPUT: 373,438 BTU/H OUTPUT: 343,563	DIRECT FIRE GAS HEATED, DX COOLED SUPPLY, DOWN DISCHARGE	DUAL CIRCUIT 5/5 MODULAR PACKAGED COOLING OPTION	5,040	0.75"	5 HP 208V/3PH/60HZ	GAS FIRED MAKEUP AIR UNIT WITH (2) 24ABB360 5 TON, DUAL CIRCUIT AIR COOLED CONDENSING UNITS. REFER TO SHEET M-402 FOR INFORMATION. 4-5 WEEK LEAD TIME. SHIPPING INCLUDED IN PRICE. SHIPS FROM TYLER, TX. SHIPS SEPARATE, FREIGHT INCLUDED. NOTE: FACTORY OPTIONS SHALL INCLUDE NONCORROSIVE COATING AND HAIL GUARD PROTECTION.

MAKE-UP AIR CONDENSING UNIT SCHEDULE							
SYMBOL	LOCATION & SERVICE AREA	MOTORS	COOLING	ELECTRICAL			MFR. & MODEL
				MOCP	MCA	VOLTAGE	
	ROOF-TOP FOR KITCHEN HOOD AIR MAKE-UP	CONDENSING FAN MOTOR 1/4 HP	2 CIRCUIT DX COOLING (5 TON) 60MBH	30	21.4	208V/3PH/60HZ	CARRIER 24ABB360

* NOTE: KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND FAN OF RTU-1. FOR WIRING DIAGRAM, SEE CAPTIVEAIRE DWG ON M-400, M-401, M-402, M403, & M404.

DIFFUSER & GRILLE SCHEDULE										
DESIGNATION	MANUFACTURER	MODEL NO	TYPE	COLOR	NOM NECK SIZE	NOM FACE SIZE	FRAME TYPE	NC MAX	REMARKS	
A	TITUS	PMC3	PERFORATED MODULAR CORE		14" x 14"	24" x 24"	LAY-IN T-BAR	< 30	AG95 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER	
B	TITUS	PMC-1C	PERFORATED MODULAR CORE		12" x 12"	19" x 19"	SURFACE	< 30	AG95 OBD, (CONTRACTOR TO INSTALL INSULATED CEILING BOX 16"x16" ID)	
C	TITUS	PMC-1C	PERFORATED MODULAR CORE		8" x 8"	15" x 15"	SURFACE	< 30	AG95 OBD, (CONTRACTOR TO INSTALL INSULATED CEILING BOX 12"x12" ID)	
D	TITUS	PAR-3	PERFORATED RETURN		22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT	
E	TITUS	PMR-1C	PERFORATED EXHAUST		12" x 12"	15" x 15"	SURFACE		A95 OBD, (CONTRACTOR TO INSTALL INSULATED CEILING BOX 12"x12" ID)	
F	TITUS	PAR-3	PERFORATED RETURN		22" x 22"	24" x 24"	LAY-IN T-BAR	< 35	CONTRACTOR FURNISHED INSULATE RETURN BOX FOR CONNECTING FLEX DUCT	
H	TITUS	PMC-3	PERFORATED MODULAR CORE		14" x 14"	24" x 24"	LAY-IN T-BAR	< 30	AG95 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER	
J	TITUS	PMC-3	PERFORATED MODULAR CORE		8" x 8"	24" x 24"	LAY-IN T-BAR	< 30	AG95 OBD, INSULATION BLANKET FOR BACKPAN, CONTRACTOR FURNISHED ROUND NECK ADAPTER	
K	TITUS	PAR-3	PERFORATED TRANSFER		9" x 9"	12" x 12"	LAY-IN T-BAR	< 35		
L	TITUS	300FL	SIDEWALL SUPPLY		12" x 8"	12" x 8"	SURFACE	< 30		
M	TITUS	350FL	SIDEWALL RETURN		12" x 8"	12" x 8"	SURFACE	< 30		
NOTE: PROVIDE FACTORY INSTALLED BACK PAN INSULATION ON AIR DEVICES. HVAC CONTRACTOR IS TO PURCHASE ALL AIR DEVICES FROM PANDA APPROVED NATIONAL ACCOUNT VENDOR THERMAIR SYSTEMS INC. PLEASE CONTACT RON CAMPTON AT 602-705-5010 OR EMAIL: ronc@thermairsystems.com										

AIR BALANCE SCHEDULE				
ITEM	 SUPPLY AIR	RETURN AIR	MAKE-UP AIR	EXHAUST
MA-1	0	0	+5,040	0
EF-1, EF-2	0	0	0	-3,150 x 2
RTU-1	+4,000	-3,500	500	0
RTU-2, RTU-3	+4,000, +4000	-3,250, -3,250	2@750 EA	0
EF-3	-	-	-	-450
TOTAL	+12,000	-10,000	+7,040	-6,750
BUILDING PRESSURE = +290 CFM				
BALANCE TOLERANCES AS FOLLOWS: KITCHEN EXHAUST HOODS: 0% TO +10% OUTDOOR AIR: 0% TO +10% SUPPLY & RETURN DIFFUSERS: ±10% TOILET EXHAUST: ±10% BALANCE RTU SUPPLY AND RETURN PRIOR TO TURNING ON EXHAUST FANS. KITCHEN EXHAUST FANS SHALL BE BALANCED WITH VELOCITY MATRIX OR A 4" ANEMOMETER				

EXHAUST FAN SCHEDULE				
FAN NO.				
LOCATION	ROOF	ROOF	ROOF	
AREA SERVED	KITCHEN GREASE EXHAUST HOOD #1	KITCHEN GREASE EXHAUST HOOD #2	RESTROOMS	
FAN DUTY	AIR EXHAUST	AIR EXHAUST	AIR EXHAUST	
FAN TYPE	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	CENTRIFUGAL BELT-DRIVEN	
FAN ARRANGEMENT	UPBLAST	UPBLAST	DOWNBLAST	
MIN. WHEEL DIAMETER	-	-	-	
PERFORMANCE	C.F.M.	3,150	3,150	450
	T.S.P.	1.25"	1.25"	0.25"
	B.H.P.	1.25	1.25	0.085
	FAN R.P.M.	1178	1178	1128
MOTOR	MOTOR H.P.	2.0	2.0	0.25
	ELEC. CHARACTERISTICS	208V/3PH/60HZ	208V/3PH/60HZ	115V/1PH/60HZ
	MOTOR SPECIAL FEATURES	OPEN DRIP-PROOF	OPEN DRIP-PROOF	OPEN DRIP-PROOF
	ACCESSORIES	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. VENTED ROOF CURB 2. HINGED AND CHAINED FAN INSTALLATION FOR DUCT ACCESS	1. ROOF CURB 2. BACKDRAFT DAMPER
MANUFACTURER	CAPTIVEAIRE MODEL: EABDU18 WT. 184 LBS	CAPTIVEAIRE MODEL: EABDU18 WT. 184 LBS	CAPTIVEAIRE MODEL: EABDCR7 WT. 113 LBS	
NOTES: 1. KITCHEN EXHAUST FANS SHALL BE ELECTRICALLY INTERLOCKED WITH MAKE-UP AIR UNIT AND ROOFTOP UNITS. 2. FOR RTU WIRING DIAGRAM SEE 5/M-501				

HVAC CONTROL SETTINGS

EACH HVAC UNIT SHALL BE PROVIDED WITH CONTROLS AS FOLLOWS:

THERMOSTAT: CARRIER COMMERCIAL PROGRAMMABLE THERMOSTAT WITH REMOTE TEMPERATURE SENSOR. SEE SHEET M-100 FOR THERMOSTAT AND SENSOR LOCATIONS.

ALL THERMOSTATS SHALL HAVE MANUAL OVERRIDE.

EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

CONTRACTOR SHALL DETERMINE OCCUPIED PERIOD FROM OWNER.



FAN OPERATION SHALL BE CONTINUOUS DURING OCCUPIED PERIOD AND CYCLE WITH COOLING/HEATING DURING UNOCCUPIED PERIOD.

PROGRAMMED SETPOINTS (FOR EACH THERMOSTAT):

COOLING OCCUPIED: 75°F.
COOLING UNOCCUPIED: 85°F.
HEATING OCCUPIED: 68°F.
HEATING UNOCCUPIED: 50°F.

NOTE: DEVIATIONS FROM THE ABOVE MAY RESULT IN UNACCEPTABLE AIR QUALITY, COMFORT AND/OR ENERGY CONSUMPTION.

AIR CURTAIN SCHEDULE

EQUIP.	MFR/MODEL	DESCRIPTION
	MARS STD242-1U-OB	UNHEATED AIR CURTAIN (SERVICE DOOR). 115V/60 WEIGHT 65 LBS. PROVIDED BY PANDA EXPRESS
	QUICK-SERV CHF-25	AIR CURTAIN (WINDOW HEATED). 208/1/60, 30 AMP WEIGHT 30 LBS REFERENCE ARCHITECTURAL WINDOW SCHEDULE FOR HEATED OR NON-HEATED UNIT. PROVIDED BY GC.
NOTES: INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.		

MA-1 CONTROL SETTINGS


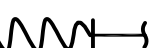
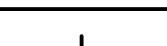
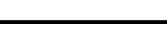
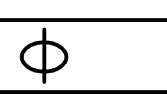
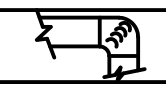





EACH UNIT CONTROL SHALL BE SET UP INITIALLY AS FOLLOWS:

FAN OPERATION SHALL BE CONTINUOUS DURING COOKING OPERATION INTERLOCK WITH KITCHEN EXHAUST FANS. REFER TO HOOD DRAWINGS.

PROGRAMMED SETPOINTS :

COOLING : 85°F.
HEATING : 55°F.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	AFF	ABOVE FINISHED FLOOR
	CLG	CEILING
	DN	DOWN
		DUCT SECTIONS (SUPPLY, EXHAUST, RETURN)
		FLEXIBLE DUCT
	MVD	MANUAL VOLUME DAMPER
	OBD	OPPOSED BLADE DAMPER
	MFR	MANUFACTURER
	MIN	MINIMUM
	OSA	OUTSIDE AIR
		ROUND RIGID DUCTWORK
	TSP	TOTAL STATIC PRESSURE
		TURNING VANES
		CONSTRUCTION NOTES
		MECHANICAL EQUIPMENT DESIGNATION
		SMOKE DETECTOR
		THERMOSTAT / UNIT
		REMOTE SENSOR / UNIT

MECHANICAL SPECIFICATIONS

- WORK INCLUDES INSTALLATION OF HVAC SYSTEMS, INCLUDING GREASE EXHAUST FANS AND MAKE-UP AIR UNIT FOR KITCHEN HOODS, SPACE HEATING/AIR CONDITIONING SYSTEMS, SUPPLY, RETURN, EXHAUST, AND GREASE EXHAUST DUCTWORK, GRILLES, REGISTERS, DIFFUSERS, COMPLETE CONTROLS SYSTEM, INTERLOCK WIRING FOR OPERATION OF KITCHEN HOODS, EXHAUST FANS, AND MAKE-UP AIR UNIT, DUCT INSULATION, AND RELATED ITEMS NECESSARY FOR A COMPLETE FUNCTIONING SYSTEM AS INDICATED ON THE PLANS. FURNISH ALL NEW MATERIALS AND EQUIPMENT UNLESS NOTED OTHERWISE (U.N.O.).
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND REQUIRED EQUIPMENT. DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. AS REQUIRED, REFER TO ARCHITECTURAL AND MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. FURNISH AND INSTALL DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND EQUIPMENT SHOWN ON PLANS.
- CODE COMPLIANCE: ALL WORK COVERED BY THIS SECTION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- COORDINATE WORK WITH OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS AND OWNER REQUIREMENTS. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR INSTALLATION AND/OR TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK. WORK SHALL BE PERFORMED BY EXPERIENCED TRADESMEN AND THEIR WORK SHALL BE OF HIGH STANDARD ACCEPTABLE TO THE OWNER.
- DUCTWORK: DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED AND INSULATED AS PROVIDED IN THE INT'L ENERGY AND MECHANICAL CODES. SHEET METAL SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS. SHEET METAL SHALL BE GALVANIZED OF LOCK-FORMING QUALITY, ASTM A-525, UNLESS OTHERWISE NOTED. DUCT DIMENSIONS ON DRAWINGS ARE NET INSIDE CLEAR DIMENSIONS ON LINED DUCTS OR SHEET METAL DIMENSIONS ON UNLINED DUCTS. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. ROUND RIGID DUCTWORK SHALL CONFORM TO SMACNA TABLE 3-2.
- INSTALL DUCT HIGH AS POSSIBLE WITHIN JOIST SPACE. CONSULT ARCHITECT AND ENGINEER FOR ALTERNATE ROUTING IF CONFLICT OCCURS.
- SEAL ALL TRANSVERSE AND LONGITUDINAL DUCT SEAMS AIR-TIGHT. PROVIDE TURNING VANES AT ALL ELBOWS OR OFFSETS EXCEEDING 30 DEGREES.
- GREASE EXHAUST SYSTEM: ALL GREASE EXHAUST DUCTS SHALL BE FABRICATED BY WELDED JOINT CONSTRUCTION OF 16 GAUGE WELDED STEEL OR 18 GAUGE STAINLESS STEEL. PROVIDE RATED ACCESS DOORS AT ALL ELBOWS AND OFFSETS NECESSARY FOR COMPLETE CLEANING OF GREASE DUCT. PROVIDE MINIMUM 30"x30" UNOBSTRUCTED ACCESS OR ROUTE FROM THE CEILING TO EACH ACCESS DOOR. DO NOT BLOCK ACCESS WITH PLUMBING, ELECTRICAL OR HVAC OBSTRUCTIONS. ALL ELBOWS SHALL BE LONG RADIUS. GREASE DUCT SHALL BE INSTALLED EITHER IN A RATED ENCLOSURE PROVIDED BY THE GENERAL CONTRACTOR OR WRAPPED WITH FIREMASTER GREASE DUCT WRAP.
- DUCT INSULATION: PROVIDE DUCT WRAP FOR ALL DUCTS ABOVE CEILING, INCLUDING VERTICAL, HORIZONTAL, RIGID AND FLEXIBLE DUCTS, EXCLUDING PREFABRICATED PREINSULATED DUCTS AND GREASE DUCTS. DUCT WRAP SHALL BE JOHNS MANVILLE MICROLITE OR EQUAL WITH FOIL/SCRIMP/KRAFT, 1 IN THICKNESS, 1.5 POUNDS/FT3 DENSITY. DUCT WRAP SHALL BE BONDED GLASS FIBERS IN THERMOSETTING RESIN MEETING NFPA 90A, WITH K VALUE NOT TO EXCEED 0.23 AT 75 DEGREES F, FLAME SPREAD AND SMOKE DEVELOPED RATINGS SHALL NOT EXCEED 25/50. APPLY 100% ADHESIVE COVERAGE TO SHEET METAL DUCTWORK. PROVIDE ADDITIONAL MECHANICAL FASTENERS ON DUCTS OVER 12" WIDE OR 16" HIGH. MECHANICAL FASTENERS SHALL BE "GRIPNAIL" OR WELDED PIN AND SPEED CLIPS SPACED PER SMACNA STANDARDS.
- FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEX DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50 AND SHALL BE RATED FOR 2" W.C. PRESSURE AND 0 TO 250 DEGREE TEMPERATURE. FLEX DUCT MAXIMUM ALLOWED LENGTH TO BE PER LOCAL CODE.
- PROVIDE INSULATION APPLIED TO COMPLETE BACKPAN OF AIR DEVICES.
- ACCESS DOOR: PROVIDE HINGED ACCESS PANELS IN DUCTWORK WHERE SHOWN AND AS REQUIRED FOR ACCESS TO DAMPERS OR EQUIPMENT. PROVIDE INSULATED ACCESS DOORS IN INSULATED DUCTWORK.
- AUTOMATIC TEMPERATURE CONTROL: CONTRACTOR TO PROVIDE AND INSTALL 24/7 PROGRAMMABLE THERMOSTATS AND REMOTE SENSORS.
- KITCHEN HOOD EQUIPMENT INTERLOCK: PROVIDE ALL INTERLOCK AND CONTROL WIRING FOR KITCHEN HOOD SYSTEMS, WHICH INCLUDES EF1, EF2, MAU1 AND ANSUL SYSTEM SHUT DOWN INTERLOCK TO MAKE-UP AIR FAN. UPON ACTIVATION OF ANSUL SYSTEM, MAKE-UP AIR FAN SHALL BE DEACTIVATED. PROVIDE ALL NECESSARY CONTROLS AND WIRING FOR A COMPLETE AND OPERABLE SYSTEM. INTERLOCK GREASE EXHAUST FANS AND MAKE-UP AIR UNIT TO START SIMULTANEOUSLY FROM SWITCH PROVIDED AT HOOD.
- TEST AND ADJUST EACH PIECE OF EQUIPMENT AND EACH SYSTEM AS REQUIRED TO ASSURE PROPER AIR BALANCE AND OPERATION. PROVIDE A CERTIFIED AIR BALANCE REPORT TO OWNER SHOWING DESIGN AND MEASURED AIR VOLUMES, STATIC PRESSURES, FAN RPMs, ETC. AIR BALANCE CONTRACTOR SHALL ADJUST SYSTEMS TO MINIMIZE NOISE AND VIBRATION, AND TO ASSURE PROPER FUNCTION OF CONTROLS, MAINTENANCE OF TEMPERATURE AND OPERATION. GENERAL CONTRACTOR TO OBTAIN ALL INSPECTIONS REQUIRED BY LOCAL CODE AND GUARANTEE WORK AND INSTALLATION FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. GENERAL CONTRACTOR TO FURNISH OWNER WITH TWO COMPLETE SETS OF AS-BUILT DRAWINGS INDICATING ALL INSTALLED WORK, INCLUDING ALL CONTROL WIRING DIAGRAMS AND INTERLOCK FOR SYSTEM OPERATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ECONOMIZERS INCLUDING INSTALLATION OF ALL NECESSARY SENSORS AND CONNECTIONS TO THERMOSTAT. PROVIDE SUPPORT OF ECONOMIZERS PER MANUFACTURER'S REQUIREMENTS AND TEST FOR PROPER OPERATION PRIOR TO FINAL TEST AND BALANCE.



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91770

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Facsimile: 626.372.8288

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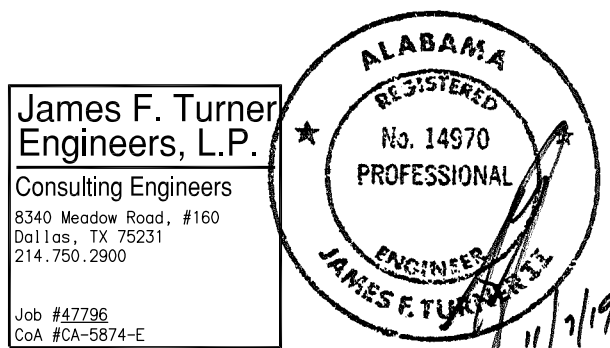
REVISIONS:

NO.	DESCRIPTION	DATE
1st	DEVELOPER REVIEW	07.15.19
2nd	SITE PLAN SUBMITTAL	08.26.19
3rd	SITE COMMENTS	09.05.19
4th	ISSUE FOR PERMIT	10.01.19
5th	ISSUE FOR BID	11.07.19

DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163

ARCH PROJECT #: 19027



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ARCHITECTURE • DESIGN

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DALLAS 5741 Legacy Drive, Suite 320 75224 972 450 7232 V

PANDA EXPRESS

2096 INTERSTATE DR.
OPELIKA, AL, 36801

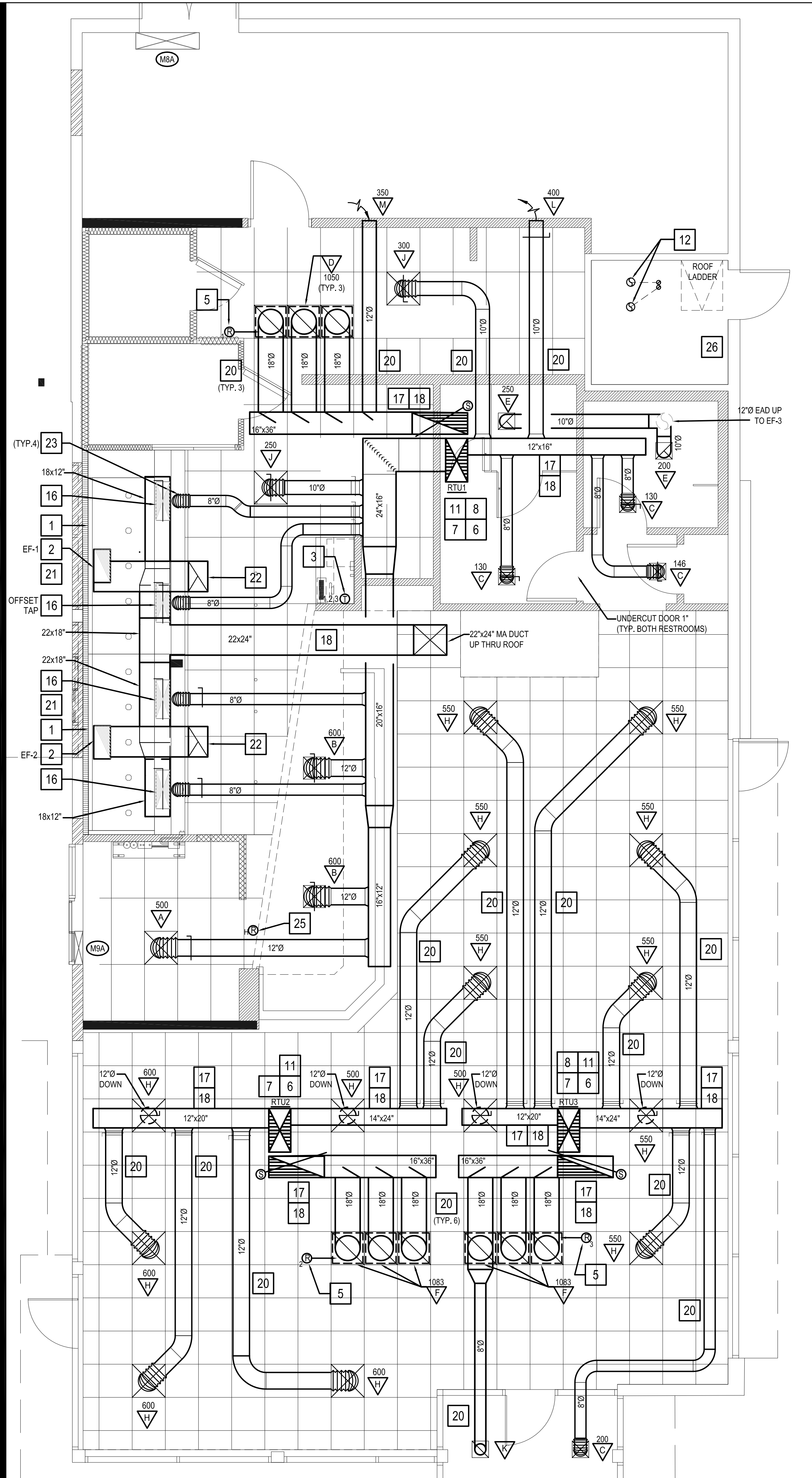
3600 FSDT

TWW REMODEL

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MECHANICAL NOTES
SPECIFICATIONS & SCHEDULES

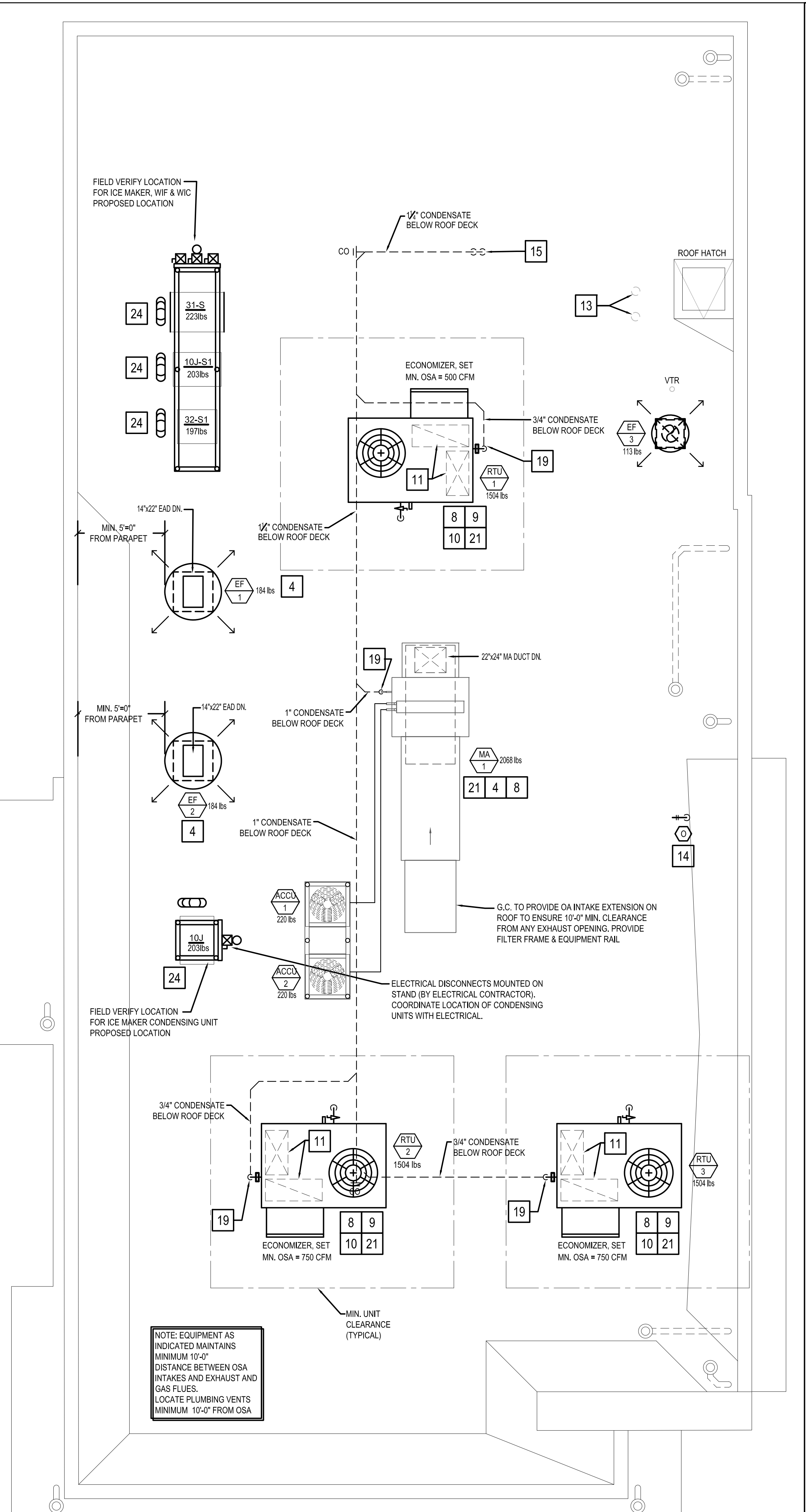
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HVAC FLOOR PLAN 2

Scale: 1/4"=1'-0"

M-100



HVAC ROOF PLAN 1

Scale: 1/4"=1'-0"

M-100

MECHANICAL KEY NOTES:

1. INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).
 2. PROVIDE AND INSTALL GREASE EXHAUST DUCT, ROUTE ON TOP OF MAKE UP AIR DUCT, FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN, TRANSITION TO 22"x14" BETWEEN ROOF JOIST. CONNECT TO EXHAUST HOOD COLLAR. FIELD VERIFY. WRAP WITH THERMAL CERAMIC FIREMASTER DUCT WRAP+ OR EQUAL. FABRICATE DUCT FROM 16 GAUGE STEEL WITH WELDED SEAM CONSTRUCTION SEAL TO THE ROOF CURB WITH FIRE CAULKING. SEE HOOD DETAIL DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS. TRANSITION DUCT TO CURB AND FAN INLET SIZE. TRANSITION TO 24X12" DUCT COLLAR SIZE.
 3. MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION.
 4. INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
 5. PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.
 6. PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 609.08 AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.
 7. PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.
 8. FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.
 9. MOUNT NEW UNITS ON EXISTING ROOF CURBS. PROVIDE CURB ADAPTERS AS REQUIRED. COORDINATE EXACT LOCATIONS OF UNITS IN FIELD.
 10. FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.
 11. FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.
 12. EXISTING PVC VENT AND COMBUSTION AIR PIPING FOR EXISTING TO REMAIN COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.
 13. EXISTING WATER HEATER VENT AND COMBUSTION AIR INTAKE PIPES. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.
 14. ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.
 15. ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN WALL. SLOPE 1/4" PER FOOT. STUB-OUT AND ELBOW DOWN OVER MOP SINK. TERMINATE WITH MINIMUM 2" AIR GAP.
 16. MA DUCT (BELOW MAKE UP AIR) CONNECT TO 28"x10" RISER FROM SUPPLY PLENUM. 1,260 CFM
 17. PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.
 18. TRUNK DUCTS TO BE ROUTED IN BETWEEN THE JOISTS.
 19. CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 16/P-500.
 20. RUNOUT DUCTS TO BE ROUTED THROUGH THE JOIST WEBBING.
 21. PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.
 22. GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-400
 23. 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 236 CFM.
 24. PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS. FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "ATR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108).
 25. ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.
 26. CONFIRM EXISTING ELECTRIC UNIT HEATER IN MECHANICAL CLOSET. IF UNIT HEATER DOES NOT EXIST THEN PROVIDE NEW QMARK CWH3150 FAN FORCED HEATER WITH INTEGRAL T-STAT. 120V/10. 1.5 KW. 12.5 FLA. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS. IMC HAS NO LIMITATIONS FOR FLEXIBLE DUCT LENGTHS.
- ALL EXISTING DUCTWORK, AIR DEVICES, AND MECHANICAL EQUIPMENT TO BE REMOVED UNLESS NOTED OTHERWISE. MOUNT NEW ROOFTOP UNITS ON EXISTING ROOF CURBS. PROVIDE CURB ADAPTERS AS REQUIRED.



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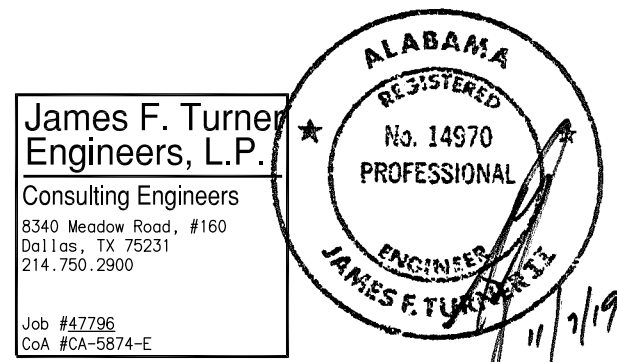
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PANDA PROJECT #: S8-20-D7163
ARCH PROJECT #: 19027



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M-100

H.V.A.C. FLOOR PLAN &
H.V.A.C. ROOF PLAN

TRUE WARM & WELCOME

BID ISSUE

HOOD INFORMATION - Job#3886824

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)								MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.				END TO END	ROW
1		4824 ND-2-ACPSP-F	10' 7.63"	600 Deg.	3150	12"	24'	4'		3150	1575	-0.518"	2520	472	430 SS Where Exposed	LEFT	ALONE
2		4824 ND-2-ACPSP-F	10' 7.63"	600 Deg.	3150	12"	24'	4'		3150	1575	-0.518"	2520	472	430 SS Where Exposed	RIGHT	ALONE

PATENT NUMBERS

AC-PSP (United States) - US Patent 7963830 B2
AC-PSP Wall (Canada) - CA Patent 2820509
AC-PSP Island (Canada) - CA Patent 2520330

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)					LIGHT(S)			UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WGT	
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL			SWITCHES
												TYPE	SIZE	MODEL #			QUANTITY
1		SS Baffle with Handles	7	20'	16'	30%	5	L55 Series E26	NO	Wall Mnt	12"x54"x24"	Ansul R102	3.0/3.0/3.0	SC-321110MA-SEP	1 Light 1 Fan	YES	554 LBS
2		SS Baffle with Handles	7	20'	16'	30%	5	L55 Series E26	NO	Right	20"x48"x24"					YES	644 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		LEFT END STANDOFF 3' Wide 48' Long

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	130.63'	22'	6'	MUA	10"	28"		1260	0.586'
						MUA	10"	28"		1260	0.586'
						AC			8"	236	0.135'
						AC			8"	236	0.135'
2		Front	147.63'	22'	6'	MUA	10"	28"		1260	0.530'
						MUA	10"	28"		1260	0.530'
						AC			8"	236	0.135'
						AC			8"	236	0.135'

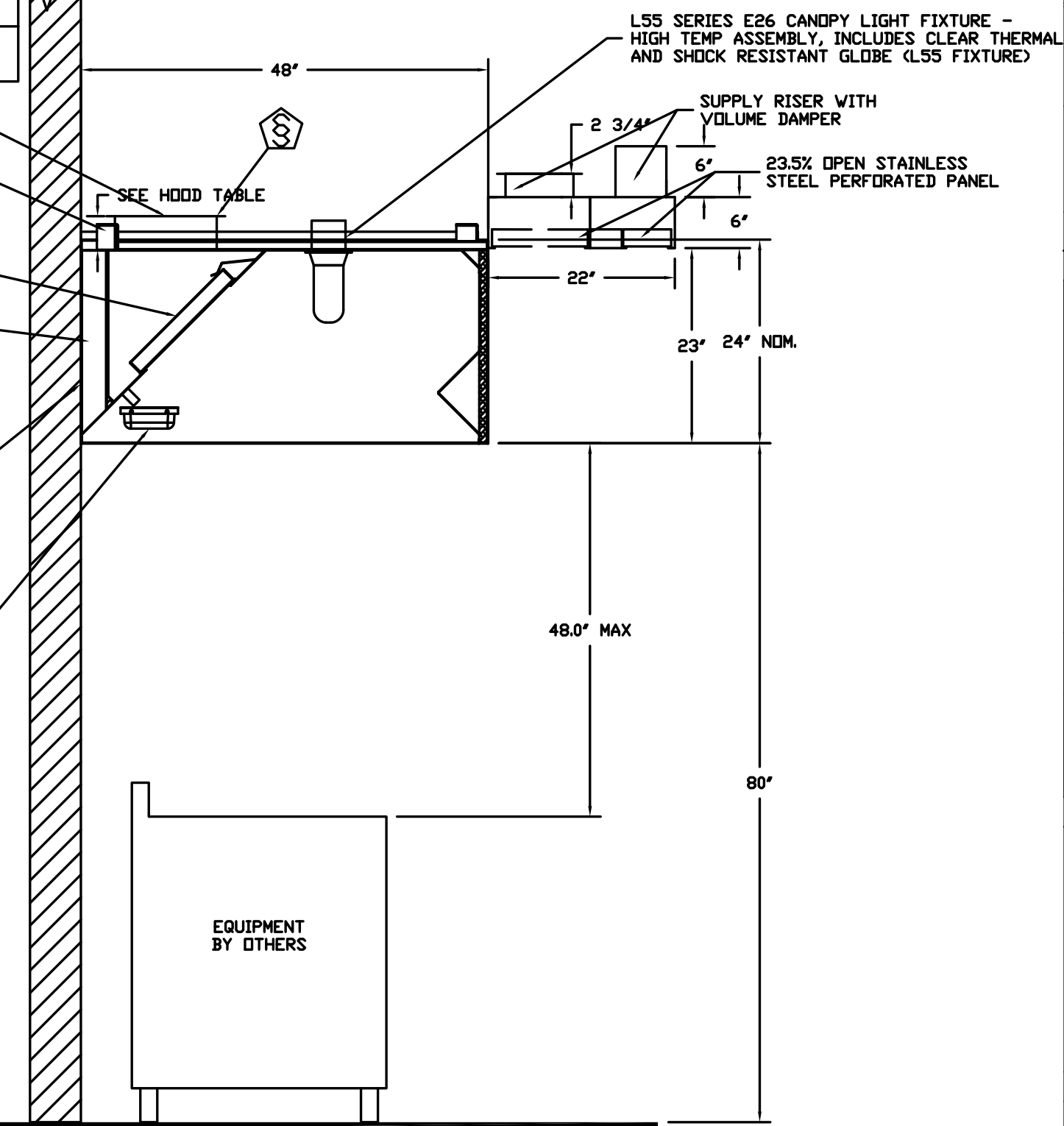
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ANSUL GAS VALVE:

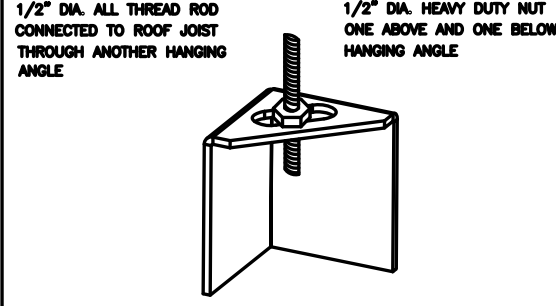
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FOR QUESTIONS CALL THE CAPTIVEAIRE SOUTHERN CALIFORNIA OFFICE
STONE MILL DESIGN CENTER
2915 RED HILL AVE, SUITE C106
COSTA MESA, CA 92626
TEL: 800-967-7701 EMAIL: REG86@CAPTIVEAIRE.COM

EXHAUST RISER
HANGING ANGLE
20" SS BAFFLE WITH HANDLES AND HOOK
3" INTERNAL STANDOFF
IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS.
GREASE DRAIN WITH REMOVABLE CUP



SECTION VIEW - MODEL 4824ND-2-ACPSP-F
HOOD - #1, #2

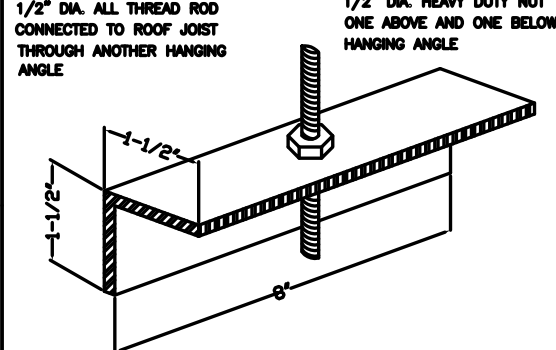


*HOOD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" / 30" H)	DIM FROM LEFT / RIGHT (24" / 30" H)
ND-2			
EXHAUST ONLY	4.166"	2.248"	2.25"
WITH MUA	4.166"	2.248"	2.25"
EXHAUST ONLY	4.166"	2.248"	2.25"
WITH MUA	4.166"	2.248"	2.25"
CONDENSATE	2.248"	2.248"	2.25"

ND-2 HANGING ANGLE LOCATIONS



*HOOD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND HANGING ANGLE DETAIL

HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24" / 30" H)	DIM FROM LEFT / RIGHT (24" / 30" H)
ND			
EXHAUST ONLY	5.00"	10.5" / 5"	5.00"
WITH MUA	5.00"	10.5" / 5"	5.00"

ND HANGING ANGLE LOCATIONS



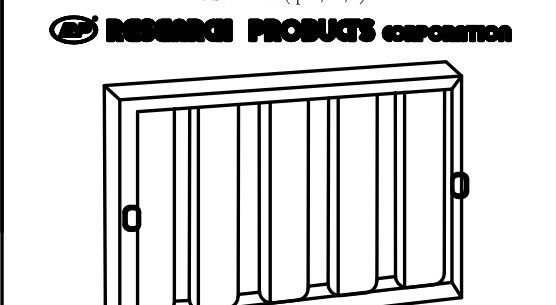
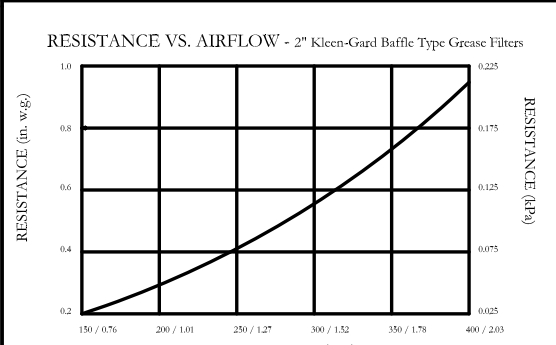
BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:	
MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	3" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

- GENERAL NOTES:
- ELECTRICAL WIRING TO GAS MOTOR CONTROLS (MOTOR STARTERS, FAN SWITCHES, FAN DISCONNECTS, RELAYS, ETC.) BY OTHERS.
 - FIRE CHASE BY OTHERS, IF REQUIRED.
 - ALL PHASES OF INSTALLATION SHALL COMPLY WITH NFPA 96.
 - WRITTEN MEASUREMENTS HAVE PRECEDENCE OVER SCALE.
 - PROVIDE CLEARANCES IN EXHAUST AIR DUCTS AS INDICATED TO ALLOW CLEANING.
 - EXHAUST DUCT TO BE 1/4" GA. GAW STEEL. ALL SEAMS AND JOINTS TO HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD.
 - FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE DUCT TO ADJACENT BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE FROM NEARBY.
 - HORIZONTAL EXHAUST DUCT TO SLOPE, NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT LESS THAN 75' LONG.
 - 1" FOR EACH FOOT FOR DUCT LONGER THAN 75' ON OPEN SIDE.
 - HOOD TO OVERHANG COOKING EQUIPMENT 6".
 - EXHAUST DUCT TO BE PROTECTED FROM COMBUSTIBLES PER NFPA96 AND LOCAL CODE.
 - BUILDING PRESSURE SHALL NOT EXCEED 0.05" WATER COLUMN AT EXTERIOR DOORS.
 - KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM.

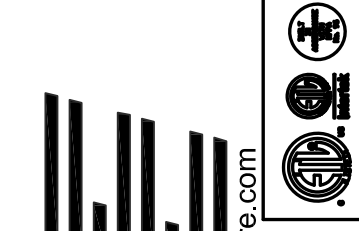
GENERAL NOTES



Kleen-Gard Baffle-Type Filters are UL Classified Grease Extracting Filters. MEA # 168-78-M Aluminum MEA # 247-96-E Stainless Steel

FILTER DETAIL

REVISIONS	
DESCRIPTION	DATE



3002 Dow Ave., Suite 410, Tustin, CA 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: REG86@CAPTIVEAIRE.COM

Southern California Office

Panda Express - Opelika AL (D7163)

OPELIKA, AL, 36801

DATE: 6/28/2019

DWG.#: 3886824

DRAWN BY: AHJ-86

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

MASTER DRAWING

SHEET NO. 1



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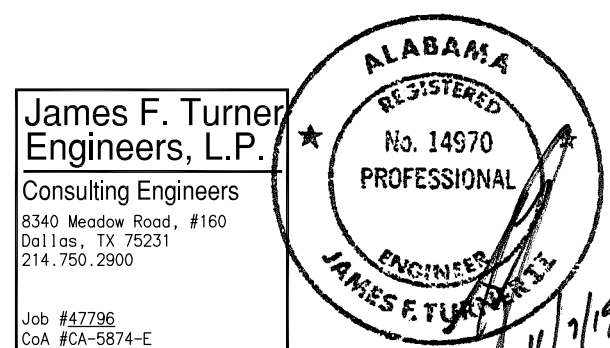
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PANDA PROJECT #: S8-20-D7163

ARCH PROJECT #: 19027



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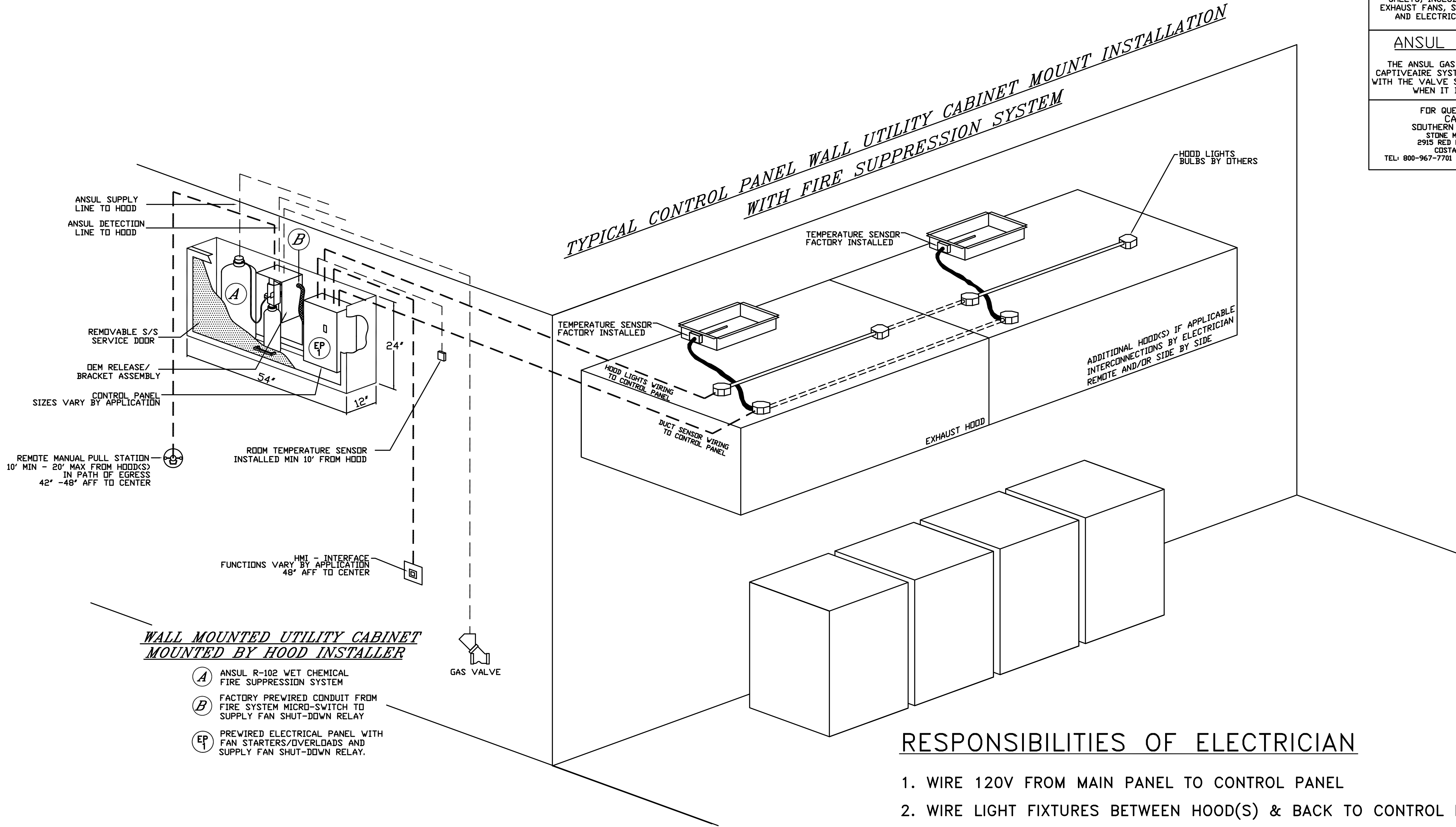
TWW REMODEL

M-400

HOOD DETAIL PLAN

TRUE WARM & WELCOME

BID ISSUE



TERMINAL BLOCK WIRING DETAILS CAN BE FOUND ON ELECTRICAL WIRING DIAGRAMS

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DESCRIPTION	DATE

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OPELIKA, AL, 36801

DATE: 6/28/2019

DWG.#: 3886824

DRAWN BY: AHJ-86

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

MASTER DRAWING

SHEET NO. 2

RESPONSIBILITIES OF ELECTRICIAN

1. WIRE 120V FROM MAIN PANEL TO CONTROL PANEL
2. WIRE LIGHT FIXTURES BETWEEN HOOD(S) & BACK TO CONTROL PANEL
3. WIRE TEMPERATURE SENSOR(S) FROM EXHAUST COLLARS TO CONTROL PANEL
4. MOUNT & WIRE ROOM SENSOR TO CONTROL PANEL
5. WIRE FAN POWER FROM MAIN PANEL THROUGH CONTROL PANEL TO FAN(S)
6. WIRE SHUNT COIL TO CONTROL PANEL
7. WIRE GAS VALVE (IF APPLICABLE) TO CONTROL PANEL (120V FROM CONTROL PANEL)

ADDITIONAL RESPONSIBILITIES IF APPLICABLE

1. IF MULTIPLE FIRE SYSTEMS ON SINGLE CONTROL PANEL, THE FOLLOWING MUST OCCUR
 - A. ANSUL AUTOMAN MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL
 - B. ANSUL CATRIDGE MICROSWITCHES TO BE WIRED IN SERIES BACK TO CONTROL PANEL

RESPONSIBILITIES OF ALARM CONTRACTOR

1. WIRE ANSUL ALARM MICROSWITCH TO BUILDING ALARM PANEL

PANDA EXPRESS

CHINESE KITCHEN

1683 Walnut Grove Ave.,
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ARCH PROJECT #: 19027

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Engineers, L.P.
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8340 Meadow Road, #160
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Job #42296
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ALABAMA

REGISTERED

No. 14970

PROFESSIONAL

ENGINEER

JAMES F. TURNER

11/7/19

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M-401

HOOD DETAIL PLAN

TRUE WARM & WELCOME

BID ISSUE

EXHAUST FAN INFORMATION - Job#3886824

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1		EABDU18	3150	1.250	1178	2.000	1.2490	3	208	5.9	727 FPM	184	14.8
2		EABDU18	3150	1.250	1178	2.000	1.2490	3	208	5.9	727 FPM	184	14.8
3		EABDCR7	450	0.250	1128	0.250	0.0850	1	115	4.8		90	6.3

CONDENSER DETAILS

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CONDENSER NO.	TONNAGE	VOLTAGE	PHASE	FREQUENCY	MCA	RLA	MAX. FUSE SIZE	MIN. WIRE SIZE	SEER
4		EA3-D500-G18-MPU	1	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	10 AWG	14
			2	5	208-230	3 PHASE	60 Hz	21.4 Amps	17.4 Amps	30 Amps	10 AWG	14

MUA FAN INFORMATION - Job#3886824

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLDWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	COOLING COIL ENTERING DB TEMP.	COOLING COIL ENTERING WB TEMP.	COOLING COIL LEAVING DB TEMP.	COOLING COIL LEAVING WB TEMP.	COOLING COIL TOTAL CAPACITY	COOLING COIL SENSIBLE CAPACITY	COOLING COIL LATENT CAPACITY	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
4		EA3-D500-G18-MPU	G18-PB	A3-D500	3500	5040	0.750	876	5.000	3.1090	3	208	15.0	95.0°F	78.0°F	82.2°F	72.0°F	120.0 MBH	68.1 MBH	51.9 MBH	2068	16.2	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
4		373438	343563	65 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box 1 - Upblast Fan Wheel Access Port
2		1 - Grease Box 1 - Upblast Fan Wheel Access Port
3		1 - I 15-BDD Damper 1 - AC Interlock Relay - 24VAC Coil
4		1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35" 1 - Manifold Pressure Gauge, -5 to 15" wc 1 - Motorized Backdraft Damper for A3-D Housing 1 - Curb Duct Hanger 1 - Cooling Thermostat and Relay (Not req for evap) 1 - 10 Ton 2 Circuit (5/5) Modular Packaged Cooling Option for Size 3 MUA (3,600 to 6,000 cfm), 208V/230V, 3 phase. Cooling Thermostat or Programmable Stat Required for Proper Operation. 1 - Downturn Plenum for Size 3 DX Coil Module 1 - Ship Condensers Loose. Two Condensers, Three Phase. 1 - VAV Package w/ Manual Control (VFD Included) 1 - Freezestat (10)

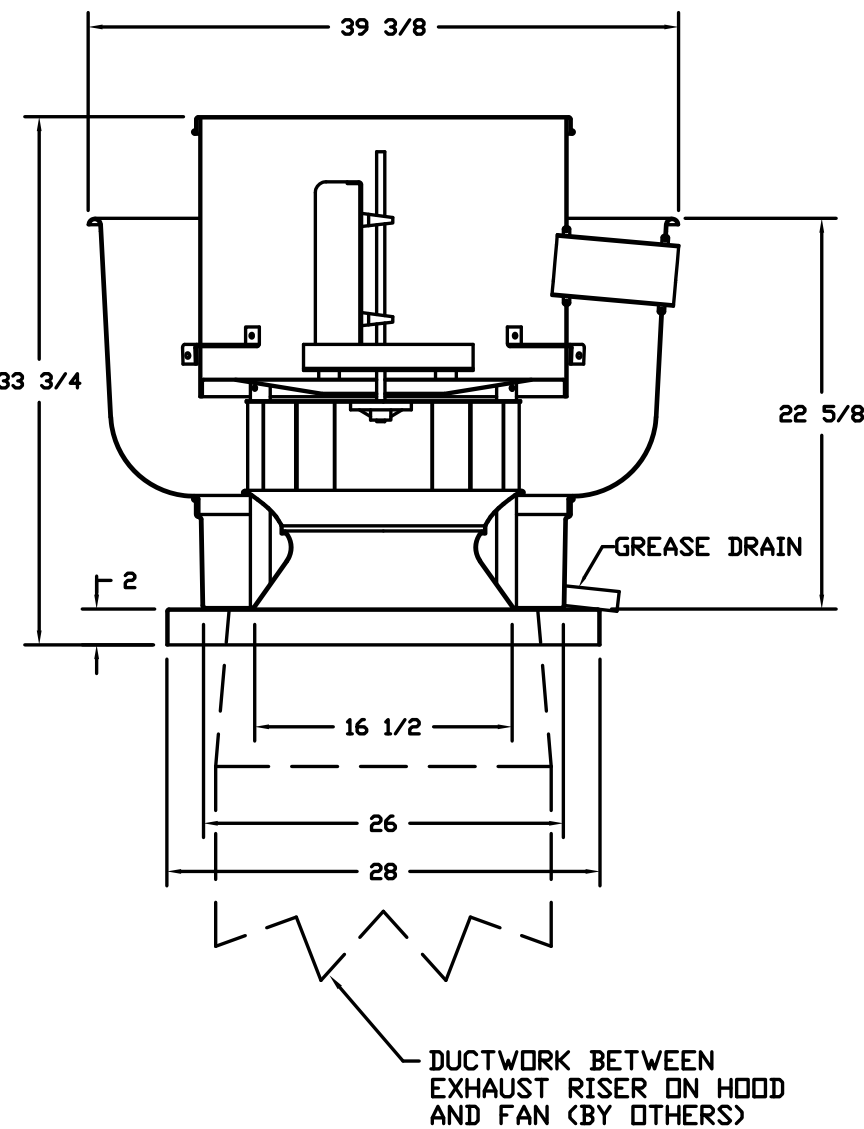
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1		YES							
2		YES							
3			YES						
4							YES		

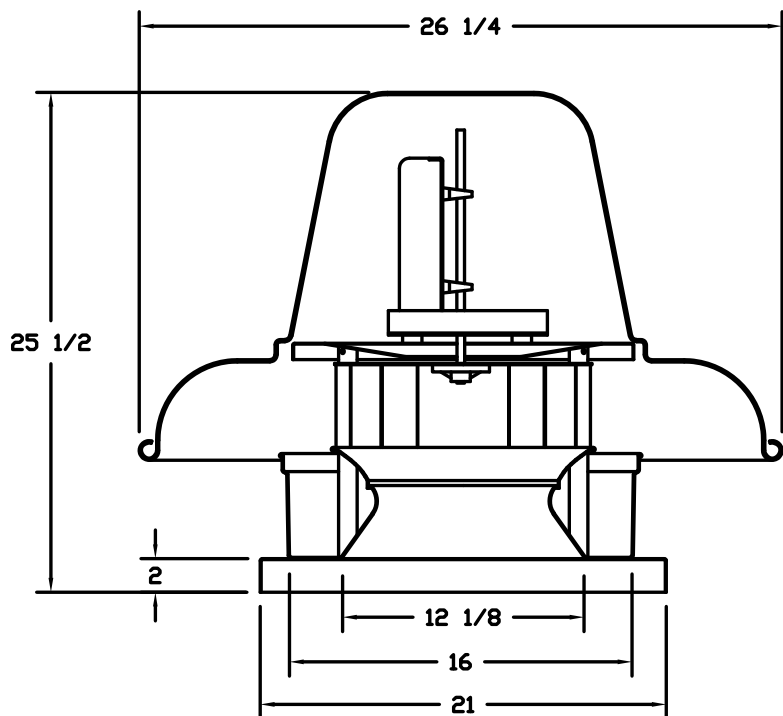
CURB ASSEMBLIES

NO.	DN FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented Hinged
2	# 2	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented Hinged
3	# 3	18 LBS	Curb	19.500"W x 19.500"L x 12.000"H
4	# 4	112 LBS	Curb	35.000"W x 84.000"L x 20.000"H Insulated
	# 4		Rail	6.000"W x 35.000"L x 20.000"H

FANS #1, #2 - EABDU18 EXHAUST FAN



FAN #3 EABDCR7 - EXHAUST FAN



FEATURES:

- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

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

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

OPTIONS

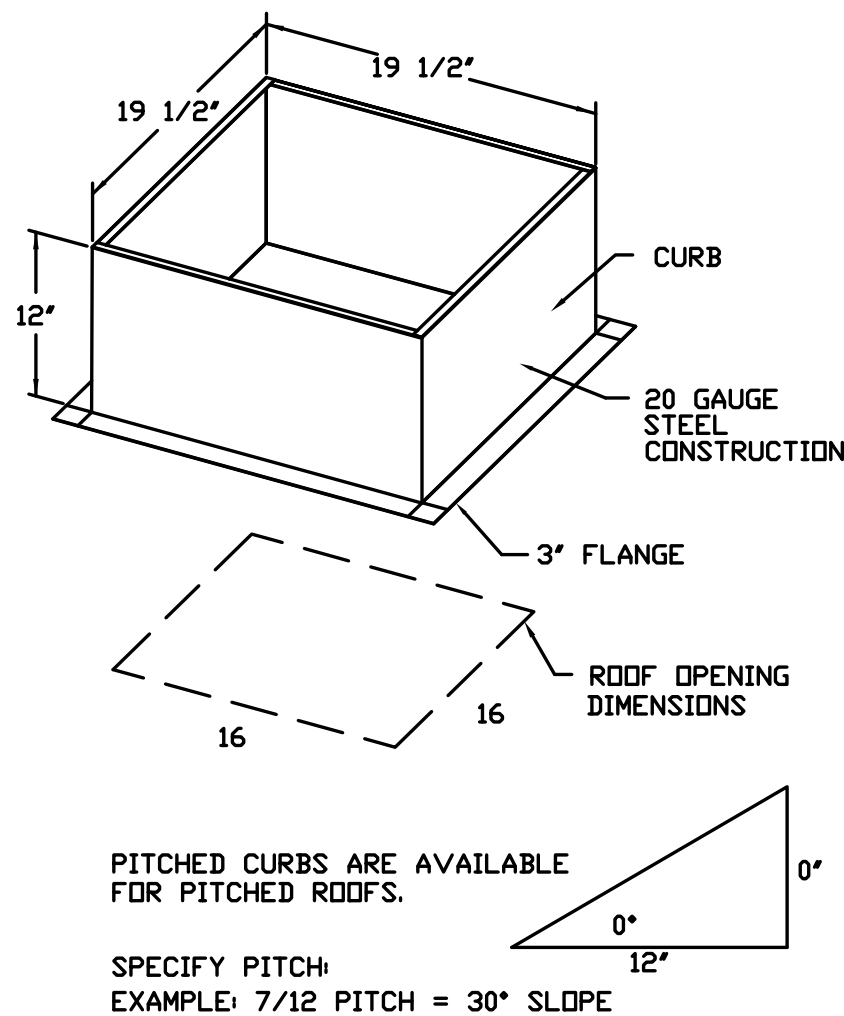
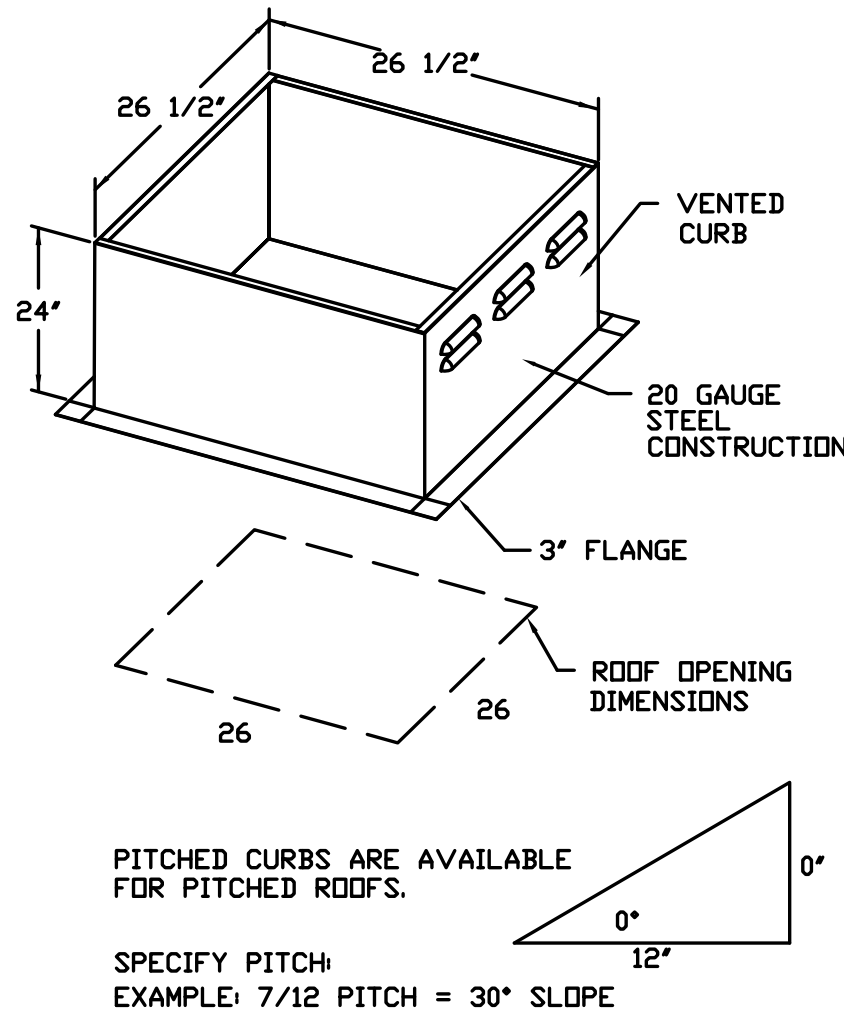
- GREASE BOX.
- UPBLAST FAN WHEEL ACCESS PORT.

FEATURES:

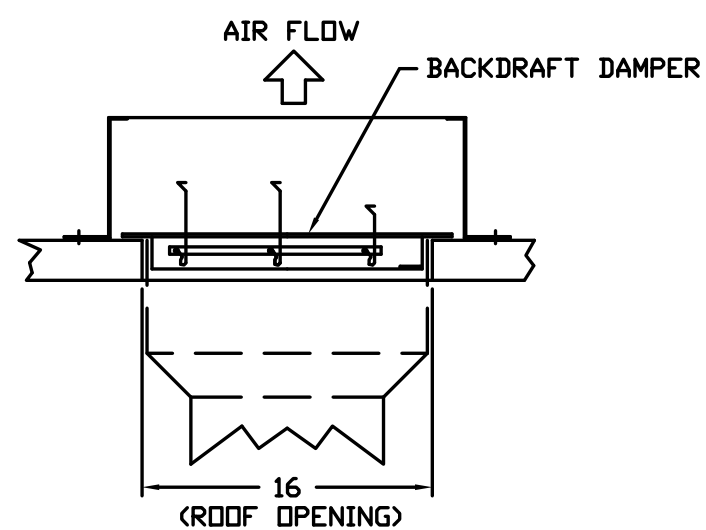
- ROOF MOUNTED FANS
- UL705
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- DISCONNECT SWITCH
- STANDARD BIRD SCREEN

OPTIONS

- I 15-BDD DAMPER.



BACKDRAFT DAMPER INSTALLATION



REVISIONS

DESCRIPTION	DATE

Capitive

Southern California Office

3002 Dow Ave., Suite 410, Tustin, CA 92780 PHONE: (714) 957-1500 FAX: (919) 227-5975 EMAIL: reg86@capitiveaire.com

Panda Express - Opelika, AL (D7163)

OPELIKA, AL, 36801

DATE: 6/28/2019

DWG.#: 3886824

DRAWN BY: AHJ-86

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

MASTER DRAWING

SHEET NO. 3



PANDA EXPRESS, INC.
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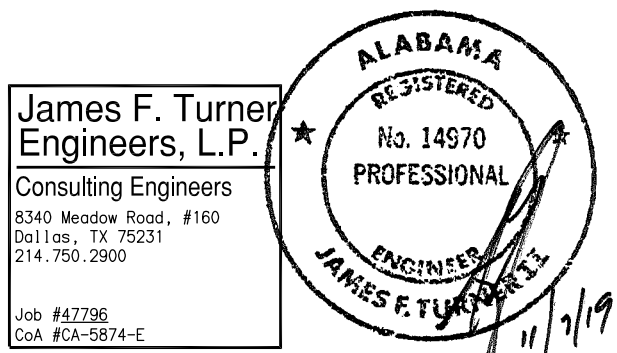
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DRAWN BY: PM / KL / EA

PANDA PROJECT #: S8-20-D7163

ARCH PROJECT #: 19027



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TWW REMODEL

M-402

HOOD DETAIL PLAN

TRUE WARM & WELCOME

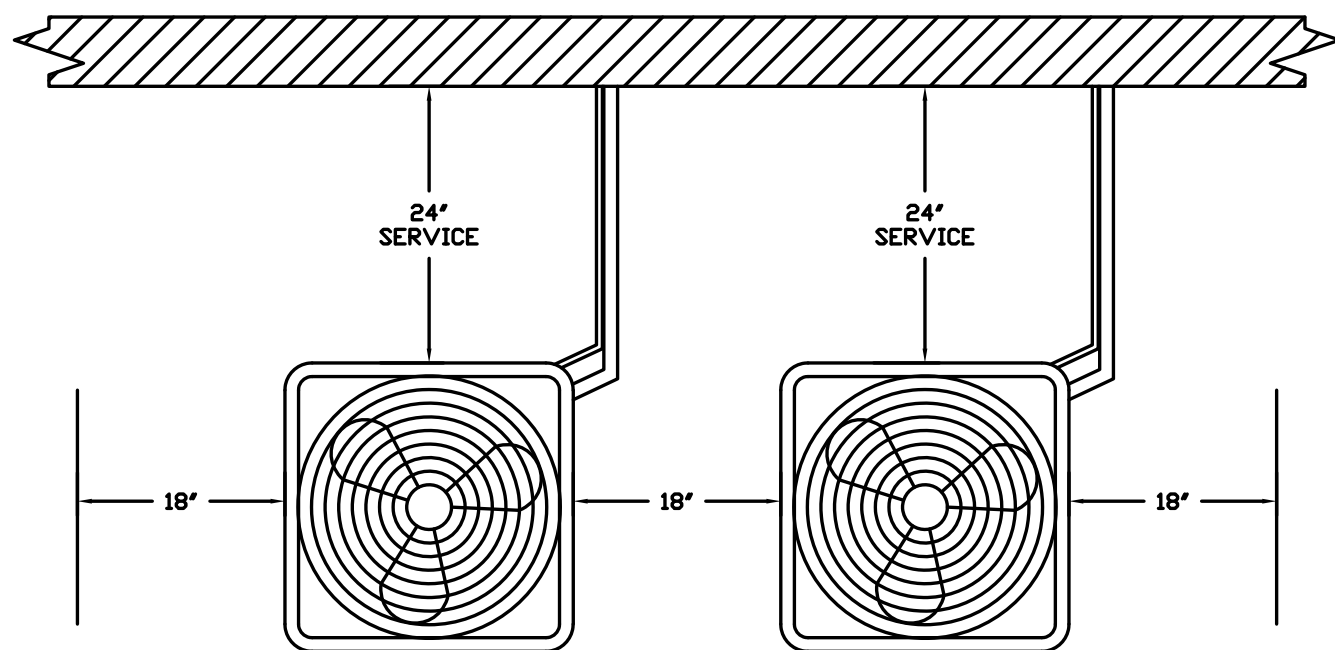
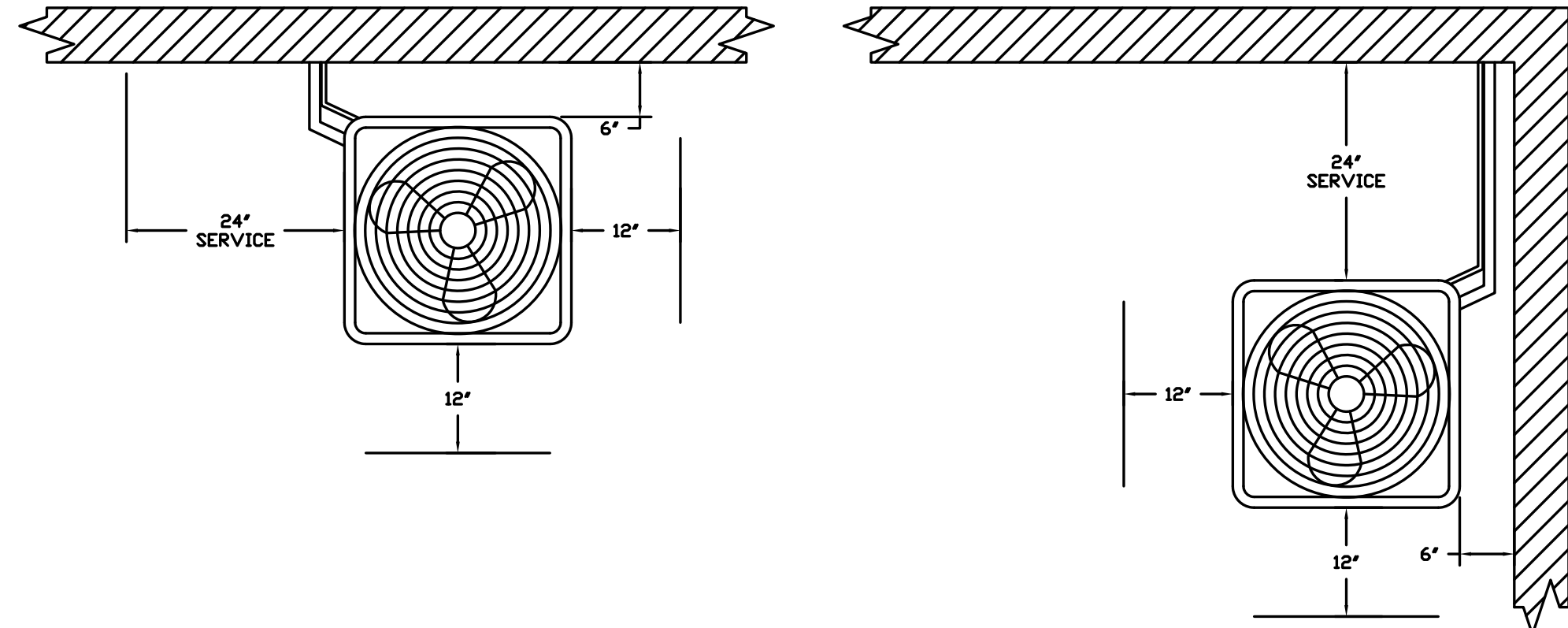
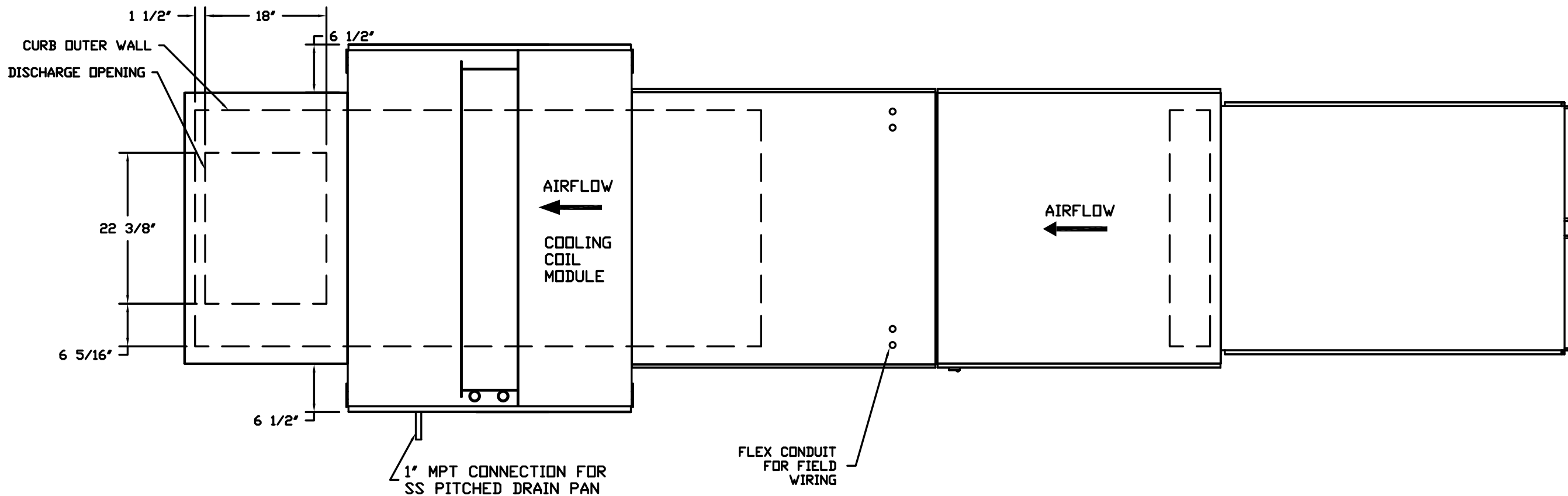
BID ISSUE

- FAN #4 EA3-D-500-G18-MPU - HEATER
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 18" BLOWER AND 12" BURNER.
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. COOLING INTERLOCK RELAY, 24VAC COIL, 120V CONTACTS. LOCKS OUT BURNER CIRCUIT WHEN AC IS ENERGIZED.
 5. LOW FIRE START, ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
 8. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, NF-BUP-S ACTUATOR INCLUDED
 9. CURB DUCT HANGER - 1-1/4" ANGLE IRON FRAME WELDED TO CURB TO SUPPORT STANDARD SIZE DUCTWORK. PRICED PER CURB. ONLY AVAILABLE WHEN CURB ASSEMBLY IS ORDERED.
 10. DX COOLING INTAKE AIR THERMOSTAT AND RELAYS MOUNTED IN UNIT - SET POINT FOR THERMOSTAT SHOULD BE 85°F.
 11. 10 TON, DUAL CIRCUIT (5/5) MODULAR PACKAGED COOLING OPTION FOR SIZE 3 MODULAR PACKAGED UNIT. INCLUDES (3,600 TO 6,000 CFM) NOT BUILT WITH OPPOSITE SIDE CONTROLS OR OPPOSITE AIRFLOW DIRECTION. CONDENSERS REQUIRE SEPARATE 208V, 3 PHASE POWER SUPPLY UNLESS ORDERED WITH SINGLE POINT CONNECTION. COIL = 3C20602M
 12. DOWNTURN PLENUM FOR SIZE 3 COOLING COIL MODULE - REQUIRED FOR DOWN DISCHARGE COOLING COIL APPLICATIONS
 13. 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.
 14. VAV (VARIABLE-AIR-VOLUME) WIRING PACKAGE FOR COMMERCIAL FANS.
 15. MANUAL SPEED CONTROL, VARIABLE FREQUENCY DRIVE INCLUDED
 16. FREEZE/STAT WITH 10' SENSOR. FACTORY SET AT 35°F AND 10 MINUTES.

NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACHA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. 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 24" X 24"

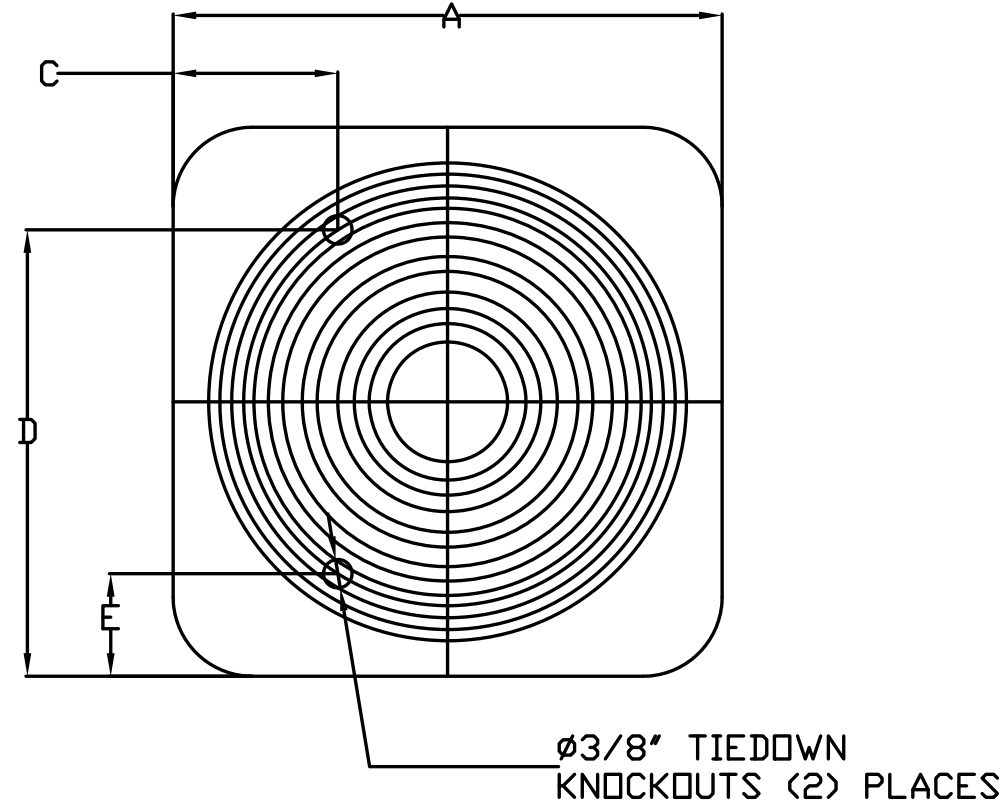
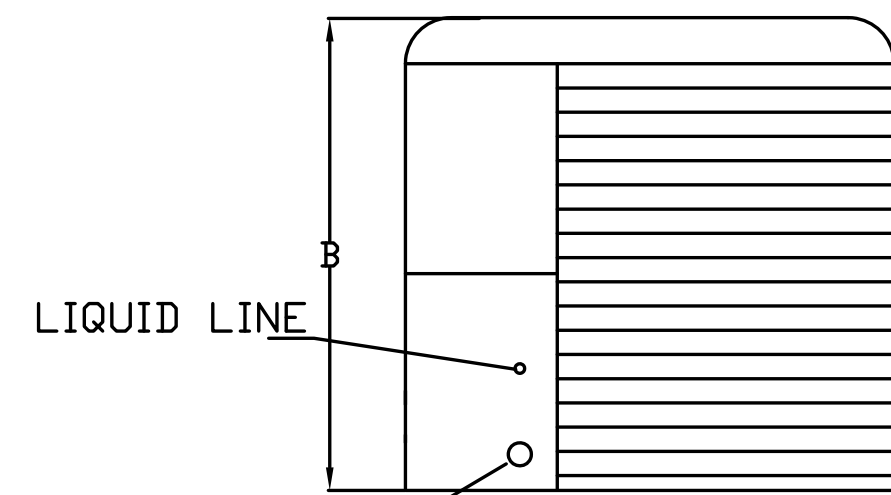
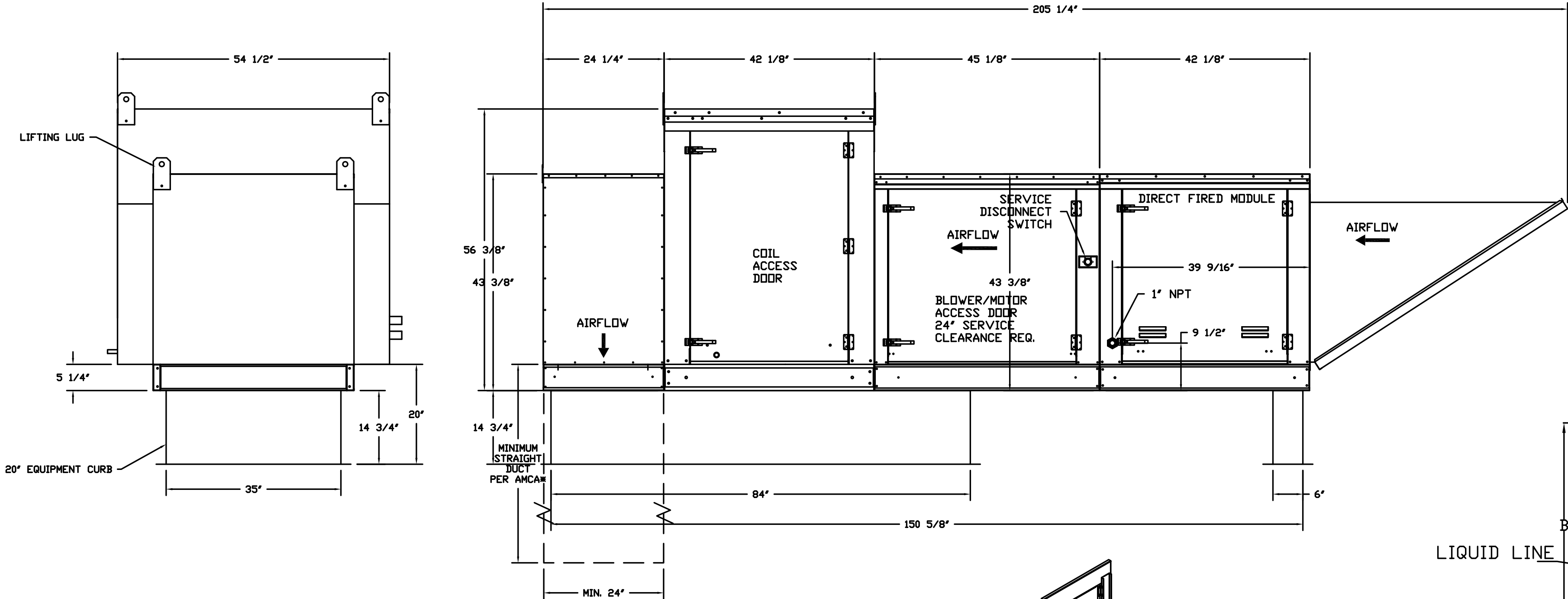
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 20°F. TEMP. RISE = 65°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY
OUTPUT BTUs AT ALTITUDE OF 0.0 ft. = 343563
INPUT BTUs AT ALTITUDE OF 0.0 ft. = 373438



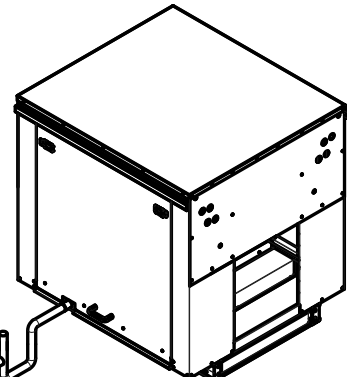
CONDENSER CLEARANCES

48" CLEARANCE REQUIRED ABOVE CONDENSERS
(NOTE: **CONDENSERS SHOWN HERE ARE NOT DRAWN AT SCALE)



Typical Drain Trap Install

Recommended Cooling Coil Drain Trap Configuration



Refer to Plumbing Detail P-500 for AC Unit Condensate Drain

- Notes:
- 1) 1" minimum clearance above roof deck where it is exposed. PVC below roof deck
 - 2) Use only low profile couplings
 - 3) Add clean out as shown

Direct Fired (DF) Profile Plate Assembly

Direct Fired Profile Plate Specifications:

Description: Direct Fired burners shall have patented US Patent No. US6695838D, self-adjusting profile plates designed to ensure proper air velocity and pressure drop across the burner. Profile plates shall allow burners to achieve clean combustion by letting by-product levels to a maximum of 50% of carbon monoxide (CO) and 100% of nitrogen dioxide (NO2). Direct Fired units shall be configured with the blower mounted downstream of the burner. This arrangement will ensure a consistent airflow, regardless of inlet air temperature.

Application: Spring-loaded burner profile plates are engineered to automatically react to the momentum of a fresh air stream, without the need for any motors or actuators to mechanically adjust them. With this feature, all DF units are designed for demand control ventilation (DCV) requirements.

Certifications: All profile plate assemblies shall be included in the DF unit's ETL listing and comply with combined safety standards ANSI Z83.4 and CSA 3.7 (non-recirculating DF heaters) and ANSI Z83.18 (recirculating DF heaters).

General Construction:

- Profile plates shall be formed from G90 galvanized steel.
- Profile plates shall vary in size per unit.
- Profile plates shall be mounted along the same plane as the discharge of the burner.
- Design shall incorporate properly torqued, permanently mounted spring hinges.
- Spring hinges shall be made from plated steel.

ALL DIMENSIONS ARE NOMINAL AND GIVEN IN INCHES.

MODEL	WEIGHT	UNIT DIMENSIONS						CONNECTION SIZES		NOMINAL TONNAGE
		A	B	C	D	E		SUCTION	LIQUID	
24ABB360	190 LBS	31-3/16	25-1/2	9-1/8	24-11/16	6-9/16		7/8	3/8	5

ELECTICAL INFORMATION

MODEL	V-PH	RLA	MCA	FUSE SIZE
24ABB360	208/230-3	16.0	21.4	30

REVISIONS

DESCRIPTION	DATE

www.captiveaire.com

ETL

UL

CSA

CEC

Southern California Office

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Panda Express - Opelika AL (D7163)

OPELIKA, AL, 36801

DATE: 6/28/2019

DWG.#: 3886824

DRAWN BY: AHJ-86

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

MASTER DRAWING

SHEET NO. 4



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ARCH PROJECT #: 19027

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TWW REMODEL

M-403
HOOD DETAIL PLAN
TRUE WARM & WELCOME

BID ISSUE

PERFORMANCE TEST FOR LISTED MECHANICAL HOOD IS REQUIRED PER UMC 509.11

GREASE HOOD SYSTEM CALCULATION

1. TYPE : CANOPY TYPE I, STAINLESS STEEL 18 GAUGE,
2. COOKING EQUIPMENT: (2) CHINESE RANGE, (2) DEEP FRYER, RICE COOKER
3. SIZE: 23'-6" x 4'-0" + 2'-0" MAKEUP AIR PLENUM
4. MIN. REQ'D CAPACITY CFM: (2) U.L. LISTED HOOD @ 3,450 CFM EACH
5. PROPOSED (2) EXHAUST FAN & (1) MAKE-UP AIR UNIT, EF1 & EF2 (3,450 CFM EACH); MAU1 (5,520 CFM, 80% OF EXHAUST)
6. EXHAUST DUCT SIZE: 22"x14"
7. EXHAUST VELOCITY @ EXHAUST DUCT $3450/(22"x14"/144) = 1612$ FPM $1500\text{FPM} < 1612\text{FPM} < 2500\text{FPM}$
8. EXHAUST FAN (EF1 & EF2) AND MAKE-UP AIR UNIT (MAU1) SHALL BE ELECTRICALLY INTERLOCKED
9. FOR CODE COMPLIANCE SEE DETAIL
10. FOR FILTER INFORMATION SEE CAPTIVEAIRE DWG #M-400.
11. INTERLOCK RTU FANS TO OPERATE WITH KEF'S FOR MAKEUP AIR.

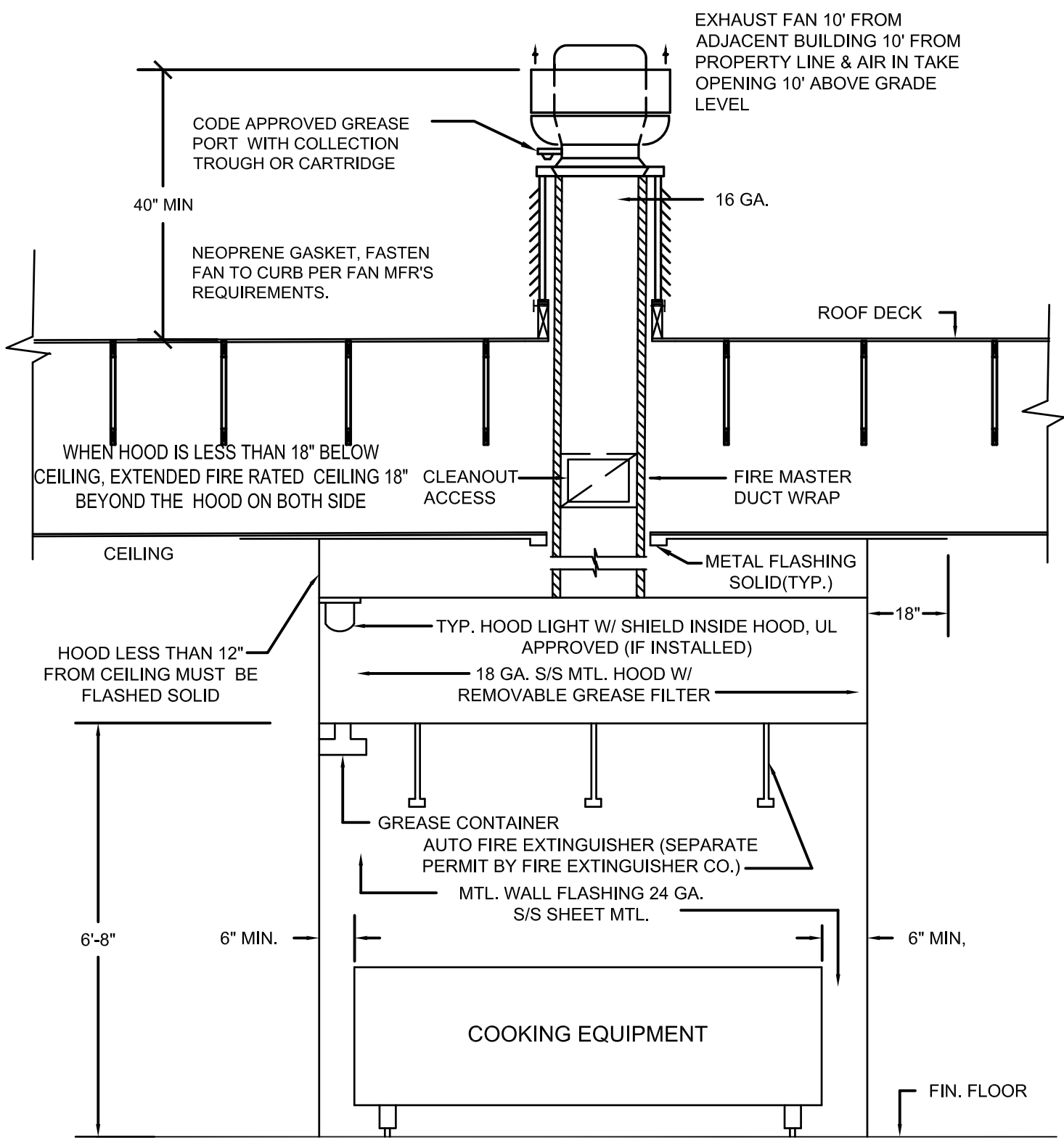
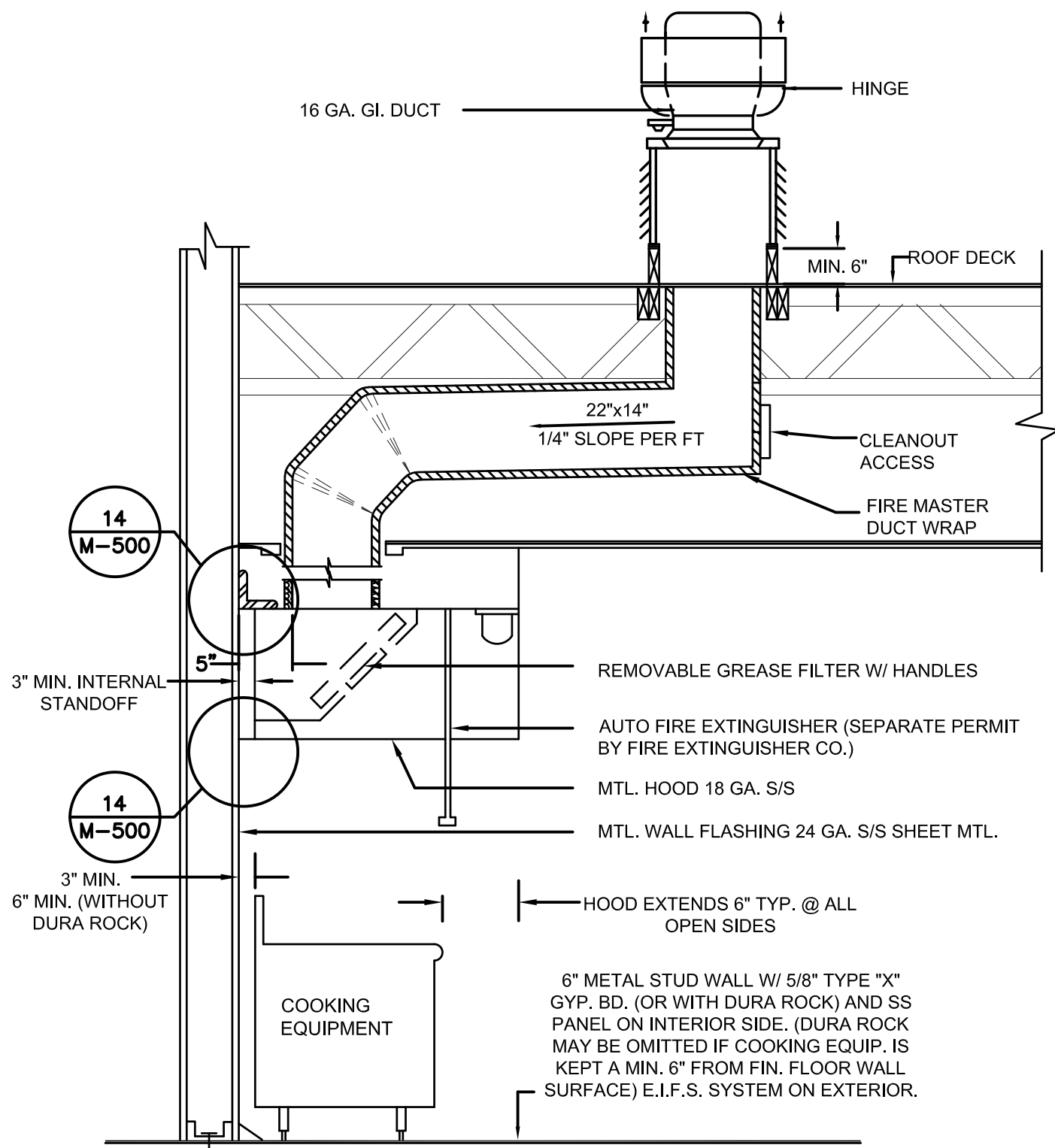
INFORMATIONAL GUIDE FOR COMMERCIAL COOKING HOODS

1. STAINLESS STEEL TO BE NO. 18 U.S. GAGE
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION AND READILY ACCESSIBLE FOR CLEANING.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
6. HOODS SHALL BE SECURELY FASTENED IN PLACE BY INCOMBUSTIBLE SUPPORTS.

NOTES

1. PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THOROUGH CLEANING OF DUCT SYSTEM.
2. PROVIDE ADEQUATE MAKE-UP AIR FOR PROPER OPERATION.
3. PROVIDE A SEPARATE DUCT SYSTEM FOR EACH HOOD.
4. THICKNESS OF DUCTS SHALL BE:

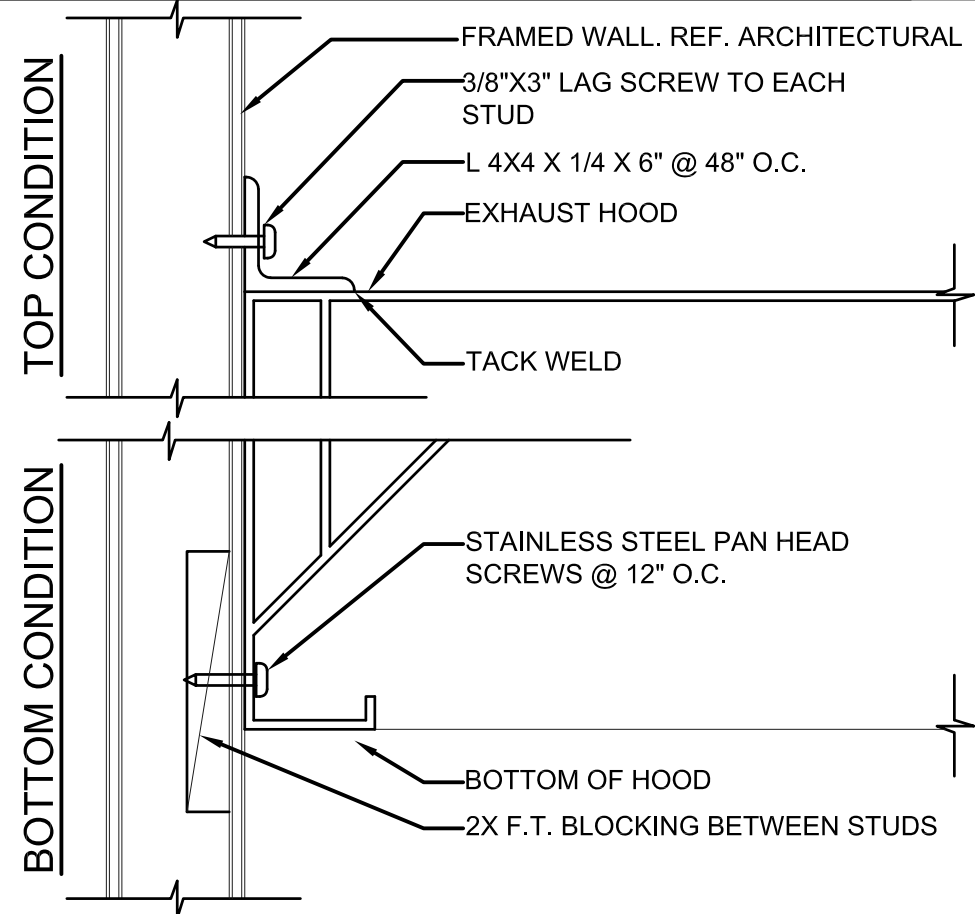
DUCT AREA	U.S. GAGE STEEL
UP TO 4 SQ. FT.	16 GA
OVER 4 SQ. FT.	14 GA
5. WELD OR BRAZE ALL DUCT JOINTS AND SEAMS ON THE EXTERNAL SURFACE.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
7. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.



HOOD SECTIONS 18

Scale: NO SCALE

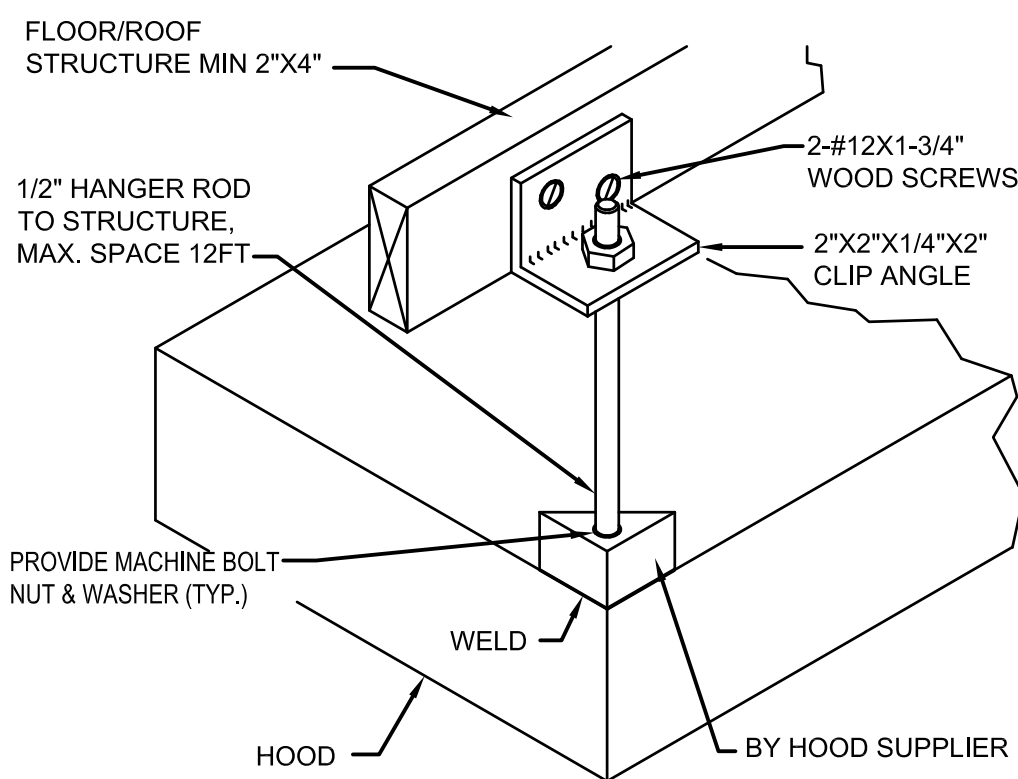
M-500



HOOD CLIP AT WALL 14

Scale: NO SCALE

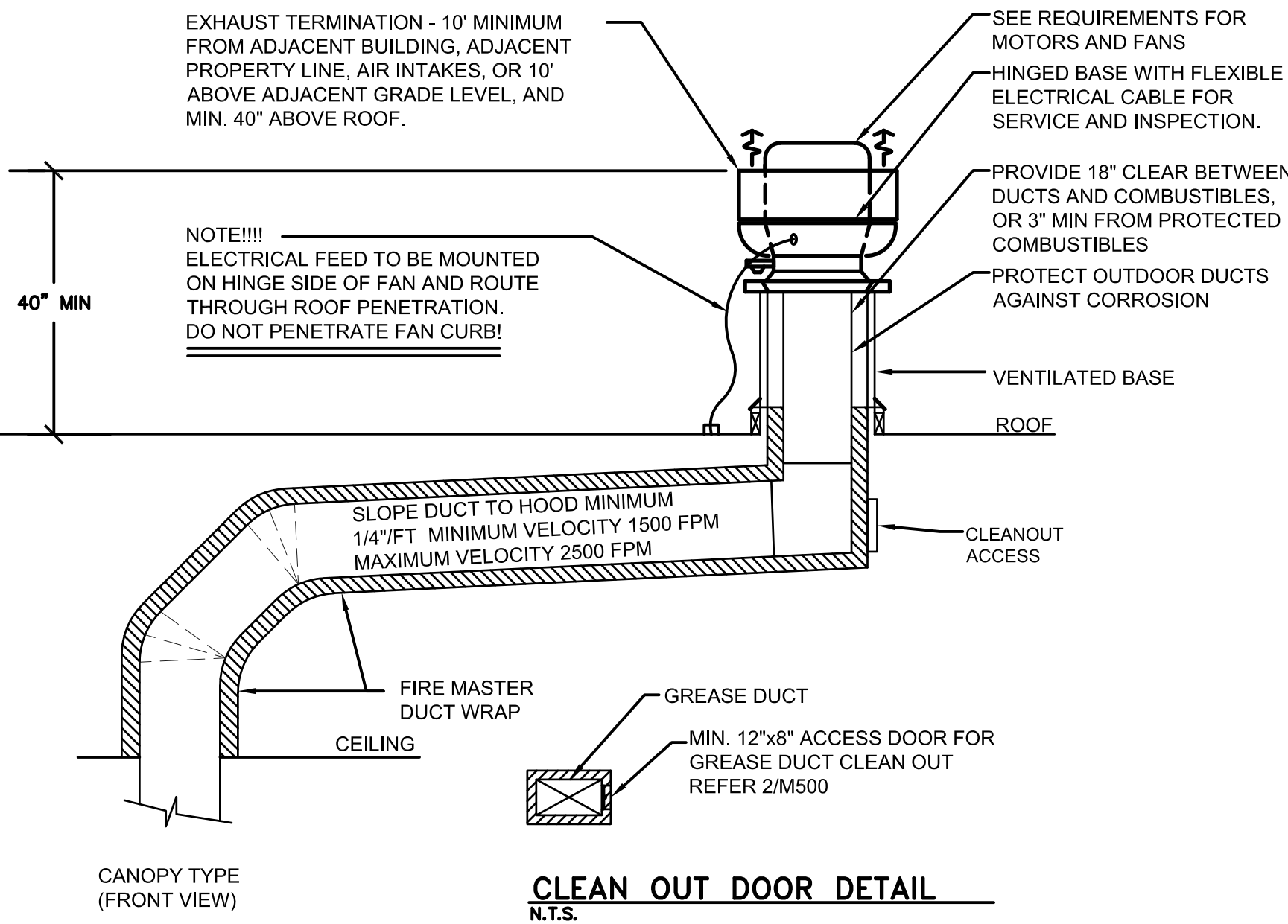
M-500



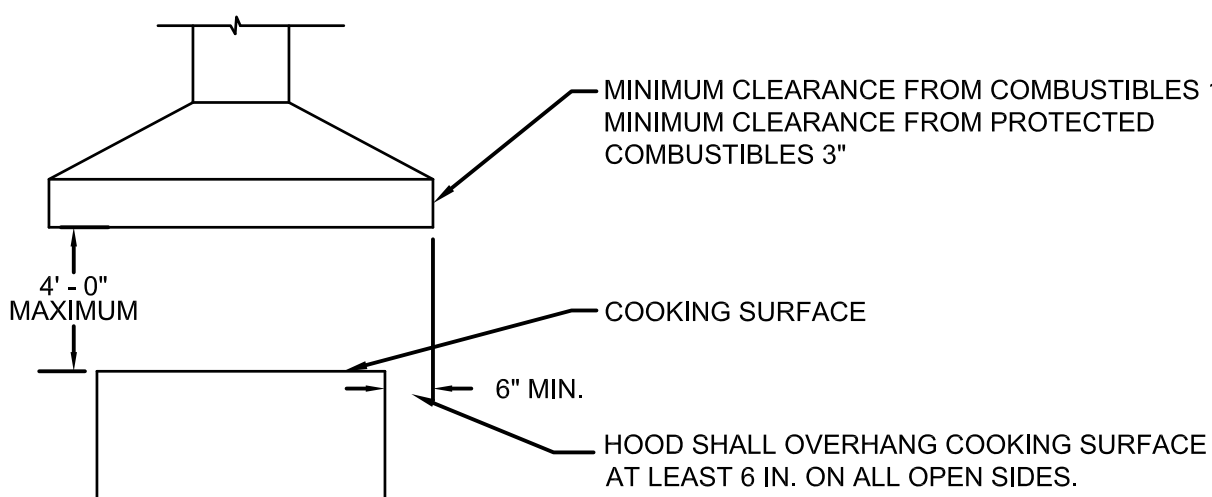
HOOD SUPPORT AT TRUSS 13

Scale: NO SCALE

M-500



CLEAN OUT DOOR DETAIL N.T.S.

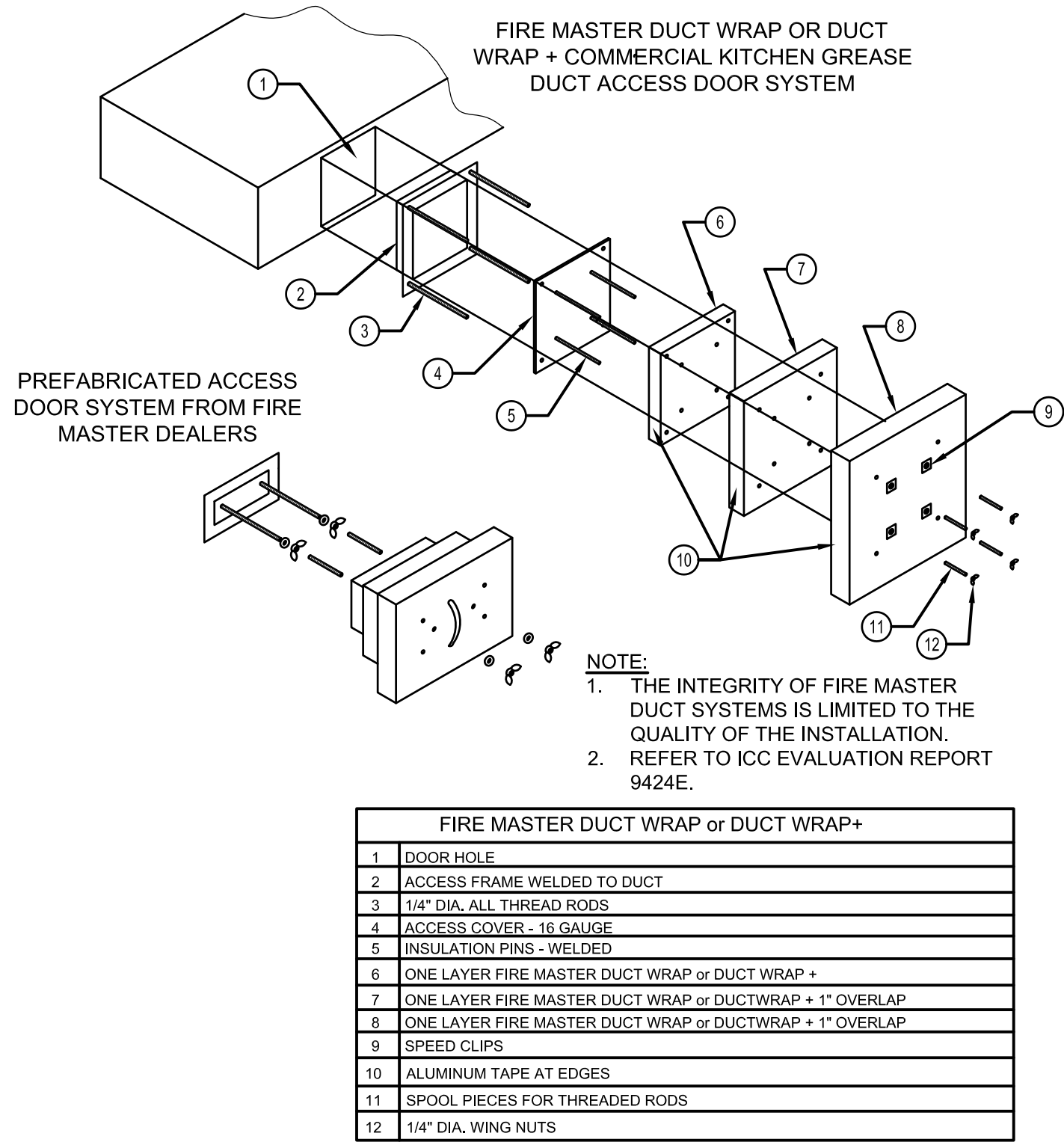


(FOR REFERENCE ONLY)

HOOD VENTILATION AND SECTION 5

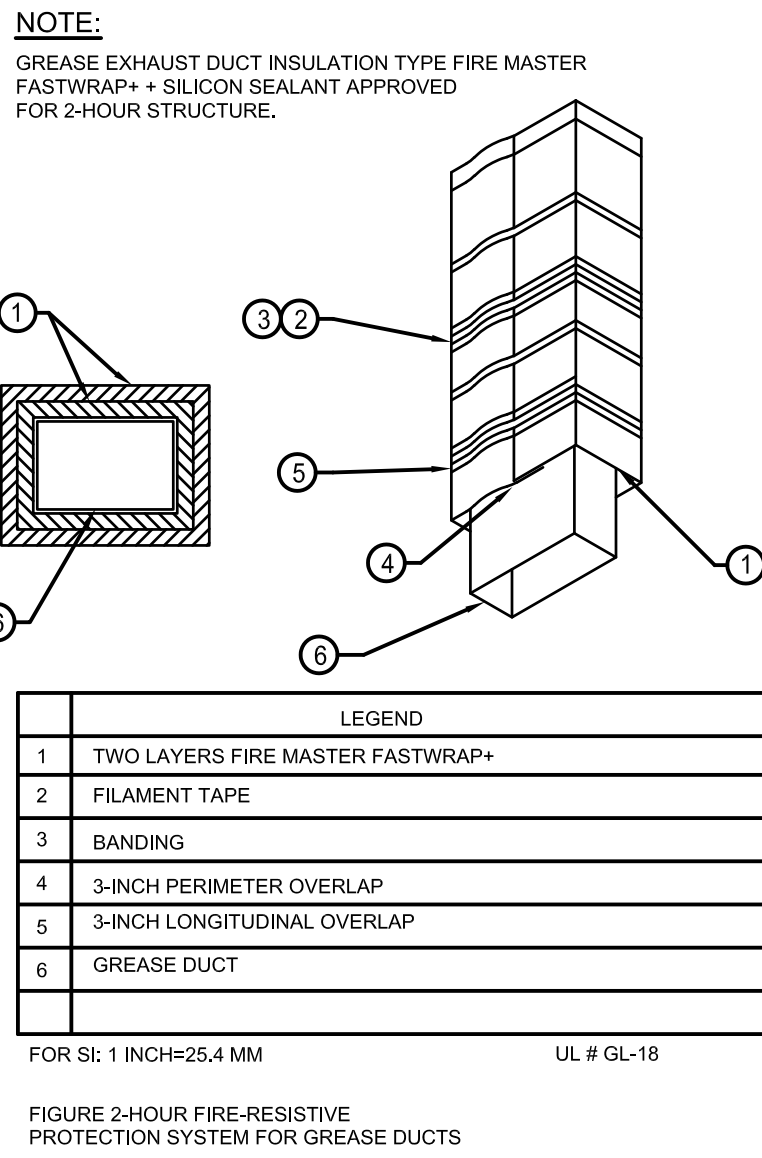
Scale: NO SCALE

M-500



GREASE DUCT ACCESS DOOR 2

M-500



2 HOUR GREASE DUCT WRAP 1

Scale: NO SCALE

M-500



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KITCHEN HOOD DETAILS

TRUE WARM & WELCOME

BID ISSUE

