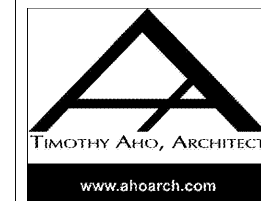




Engineering & Design Consultants
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(205) 733-6912 FAX: (205) 733-6913
Job No. 20163



LEGEND

- DUCT SIZE, FIRST FIGURE IS SIDE SHOWN INSIDE CLEAR DIMENSION UNLESS NOTED OTHERWISE
- LOW PRESSURE, RECTANGULAR (GALVANIZED STEEL)
- LOW PRESSURE, RECTANGULAR (ALUMINUM STEEL)
- ROUND (GALVANIZED STEEL)
- MEDIUM PRESSURE, FLAT OVAL (GALVANIZED STEEL)
- FLEXIBLE DUCT
- DUCT RISE
- DUCT DROP
- EXISTING DUCTWORK TO REMAIN
- DUCT TRANSITION
- RECTANGULAR TO ROUND DUCT TRANSITION
- TURNING VANES
- FIRE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- SMOKE DAMPER AND SLEEVE, PROVIDE ACCESS DOOR
- COMBINATION FIRE/SMOKE DAMPER, PROVIDE ACCESS DOOR
- MANUAL VOLUME DAMPER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER
- STANDARD 45° BRANCH, SUPPLY OR RETURN, NO SPLITTER, WITH MANUAL VOLUME DAMPER
- CONICAL SPIN-IN FITTING WITH BUTTERFLY DAMPER
- GRILLE OR REGISTER, CEILING
- ACCESS DOOR
- CONDENSATE DRAIN PIPING
- AUXILIARY CONDENSATE DRAIN PIPING
- REFRIGERANT PIPING (2 LINES TOTAL)
- ELBOW, 90° (LONG RADIUS)
- TEE
- TEE, TURNED UP
- TEE TURNED DOWN
- ELBOW, TURNED DOWN
- ELBOW, TURNED UP
- WALL MOUNTED THERMOSTAT
- WALL MOUNTED HUMIDISTAT
- WALL MOUNTED TEMPERATURE SENSOR
- WALL MOUNTED CARBON DIOXIDE SENSOR
- WALL MOUNTED DEVICE W/ COVER GAURD
- SMOKE DETECTOR
- TIE NEW INTO EXISTING
- UNDERCUT DOOR 3/4 INCHES
- SUPPLY AIR FLOW
- RETURN OR EXHAUST AIR FLOW

ABBREVIATIONS

- AB, CLVG ABOVE CEILING
- ABV. ABOVE
- AC ALTERNATING CURRENT
- A/C AIR COMPRESSOR
- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- AI ANALOG INPUT
- ALT. ALTERNATE
- AMP AMPERE
- AO ANALOG OUTPUT
- APPROX. APPROXIMATELY
- ARCH. ARCHITECTURAL
- AVG AVERAGE
- B BOILER
- BTU BRITISH THERMAL UNIT
- CFM CUBIC FEET PER MINUTE
- CH CHILLER
- CHWP CHILLED WATER PUMP
- CLG CEILING
- CT COOLING TOWER
- CU CONDENSING UNIT
- CWP CONDENSER WATER PUMP
- DEFL. DEFLECTION
- DET. DETAIL
- DI DIGITAL INPUT
- DIA. DIAMETER
- DIA. DIAMETER
- DO DIGITAL OUTPUT
- EDB ENTERING DRY BULB
- ELEC. ELECTRICAL
- ELEV. ELEVATION
- EWB ENTERING WET BULB
- EWT ENTERING WATER TEMPERATURE
- EXH. EXHAUST
- EXIST. EXISTING
- F. DEGREES FAHRENHEIT
- GFF GAS FIRED FURNACE
- GPM GALLONS PER MINUTE
- FPM FEET PER MINUTE
- FPS FEET PER SECOND
- FT. FOOT OR FEET
- HD. HEAD
- HP HORSE POWER
- HR. HOUR(S)
- HT. HEIGHT
- HTR HEATER
- HVAC HEATING, VENTILATION AND AIR CONDITIONING
- HWP HOT WATER PUMP
- HX HEAT EXCHANGER
- HZ FREQUENCY (HERTZ)
- ID INSIDE DIAMETER
- IN. INCHES
- KW KILOWATT
- KWH KILOWATT HOUR
- MAX. MAXIMUM
- MBH. 1000 BTU PER HOUR
- MECH. MECHANICAL
- MFR. MANUFACTURER
- MIN. MINIMUM
- NO. NUMBER
- N/A NOT APPLICABLE
- NC NOISE CRITERIA
- O.D. OUTSIDE DIAMETER
- OA OUTSIDE AIR
- OD. ORIGINAL
- ORIG. ORIGINAL
- PH. PHASE
- PIU POWERED INDUCTION UNIT
- PRESS. PRESSURE
- RTN. RETURN AIR
- RTU ROOFTOP AIR HANDLING UNIT
- SDC STAND ALONE DIGITAL CONTROLLER
- SENS. SENSIBLE
- SO. SQUARE
- SPLY. SUPPLY
- TEMP. TEMPERATURE
- VAV. VARIABLE AIR VOLUME
- W. WATT
- W/ WITH
- W.P.D. WATER PRESSURE DROP

AIR HANDLING UNIT SCHEDULE

EQUIPMENT NO.	MANUFACTURER	MODEL	CFM	OA CFM	E.S.P.	FAN HP	COOLING CAPACITY				ELECTRICAL HEAT		ELECTRICAL				REMARKS			
							EDB	EWB	LDB	LWB	KW	STAGES	DISCONNECT	MOTOR STARTER	MCA	MOCP		VOLTS/PH./HZ	MOUNTING	WELDED
AHU-1	YORK	AE30BB21	1000 CFM	210 CFM	0.50 in-wg	0.33 hp	78°F	66°F	58°F	57°F	7.2KW	1	BY DIV. 26	INTEGRAL	47 A	50 A	240/1/60	HORIZONTAL	14"	(1), (2), (3)

REMARKS:
 1.) SUSPEND UNIT FROM STRUCTURE PER DETAIL.
 2.) PROVIDE UNIT WITH SINGLE POINT POWER CONNECTION.
 3.) PROVIDE WITH 1" THROWAWAY FILTERS.

CONDENSING UNIT SCHEDULE

EQUIPMENT NO.	MANUFACTURER	MODEL	SERVICE	NOMINAL CAPACITY (TONS)	ELECTRICAL				REMARKS		
					DISCONNECT	MOTOR STARTER	MCA	MOCP		VOLTS/PH./HZ	
CU-1	YORK	YCE30B21H	AHU-1	2.5	BY DIV. 26	BY DIV. 23	40 W	115/1/60	CEILING	DIRECT	(1), (2)

REMARKS:
 1.) PROVIDE WITH LOW AMBIENT CONTROLS.
 2.) LOCATE UNIT ON HOUSEKEEPING PAD. ANCHOR UNIT TO PAD WITH EXPANSION BOLTS.

POWER VENTILATOR SCHEDULE

EQUIPMENT NO.	MANUFACTURER	MODEL	FAN TYPE	CFM	STATIC PRESSURE	FAN RPM	PHONES	DISCONNECT	MOTOR STARTER	MOTOR HP	VOLTS/PH./HZ	LOCATION	DRIVE	COMMENTS
EF-1	Loren Cook Company	GC-148	CENTRIFUGAL	70 CFM	0.35 in-wg	849	12	BY DIV. 26	BY DIV. 23	40 W	115/1/60	CEILING	DIRECT	(1), (3), (5)
EF-2	Loren Cook Company	GC-148	CENTRIFUGAL	70 CFM	0.00 in-wg	849	12	BY DIV. 26	BY DIV. 23	40 W	115/1/60	CEILING	DIRECT	(1), (3), (5)
EF-3	Loren Cook Company	ACWD	SIDEWALL	3000 CFM	0.75 in-wg	1075	12	BY DIV. 26	BY DIV. 23	0.75 HP	115/1/60	WALL	DIRECT	(2), (3), (4)

REMARKS:
 1.) PROVIDE OCCUPANCY SENSOR FOR FAN OPERATION IN EACH RESTROOM.
 2.) FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
 3.) PROVIDE WITH FAN SPEED CONTROLLER.
 4.) PROVIDE WITH FAN INLET GUARDS AND GRAVITY SHUTTER.
 5.) PROVIDE WITH BACKDRAFT DAMPER.

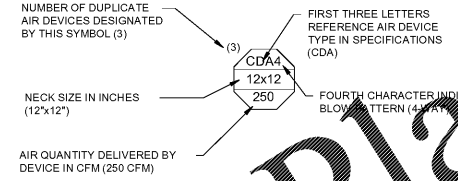
RADIANT HEATING SCHEDULE

EQUIPMENT NO.	MANUFACTURER	MODEL	HEATING CAPACITY (BTU)	ELECTRICAL			WEIGHT	MOUNTING HEIGHT	REMARKS
				DISCONNECT	WATTS	VOLTS/PH./HZ			
RH-1	RE-VERBER-RAY	DR-50	50000.0 Btu/h	BY DIV. 26	17 W	115/1/60	50	11' - 7"	(1), (2), (3), (4)
RH-2	RE-VERBER-RAY	DR-50	50000.0 Btu/h	BY DIV. 26	17 W	115/1/60	50	11' - 7"	(1), (2), (3), (4)

REMARKS:
 1.) MAINTAIN DISTANCES FROM COMBUSTIBLES PER MANUFACTURERS INSTALL DETAILS.
 2.) PROVIDE WITH 24V TRANSFORMER AND LOW VOLTAGE THERMOSTAT.
 3.) ANGLE UNITS AT 30 DEGREES FROM HORIZONTAL. SUSPEND UNITS FROM STRUCTURE WITH 3/8" THREADED RODS.
 4.) HEIGHT SHOWN SHALL BE MEASURED FROM BOTTOM OF RAY HEAD SURFACE.

OUTSIDE AIR CALCULATIONS

Served By	Space Name	Supply Air (cfm)	Area (sq. ft)	Occupancy Classification	Max Number of Occupants/SF (per 1000 SF)	2015 MECHANICAL CODE OUTSIDE AIR REQUIREMENT										MAX OA REQUIRED
						Number of Occupants	G.A. Area Air Rate		G.A. People Air Rate		G.A. People	Tone Corrected	Primary Ventilation		Remarks	
							cfm	cfm / sq. ft	cfm/person	cfm			cfm	cfm		
1	Corridor	275	130	Lobbies	1	1	0.06	5	8	5	13	0.80	15	15	0.06	1
1	Restroom	350	260	Lobbies	1	15	0.06	5	16	75	91	0.80	113	113	0.32	0.876
1	Manager	125	47	Office	5	5	0.06	5	3	1.175	4	0.80	5	5	0.04	1
2	Break Room	150	52	Break Room	35	1	0.06	10	9	10	33	1.80	7	7	0.05	1
												OA	Lowest Ev			
												341.68	1.80			



AIR DEVICE LEGEND

MEP## NO SCALE

NOTE: THIS LEGEND IS FOR REFERENCE ONLY. ALL SYMBOLS WHICH APPEAR WITHIN THE LEGEND MAY NOT APPLY TO THIS PROJECT.

Order Plans

Express Oil Change & Tire Engineers
 Right Hand Oil Change Building (Hurricane)
 2265 O'Neal Lane
 Baton Rouge, LA 70816

FINAL

No.	Description	Date

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Mechanical Legend, Abbreviations and Schedules	
Project number	20025
Date	08/27/2020
Drawn by	CA
Checked by	JB
OC-M0.01	
Scale	12" = 1'-0"