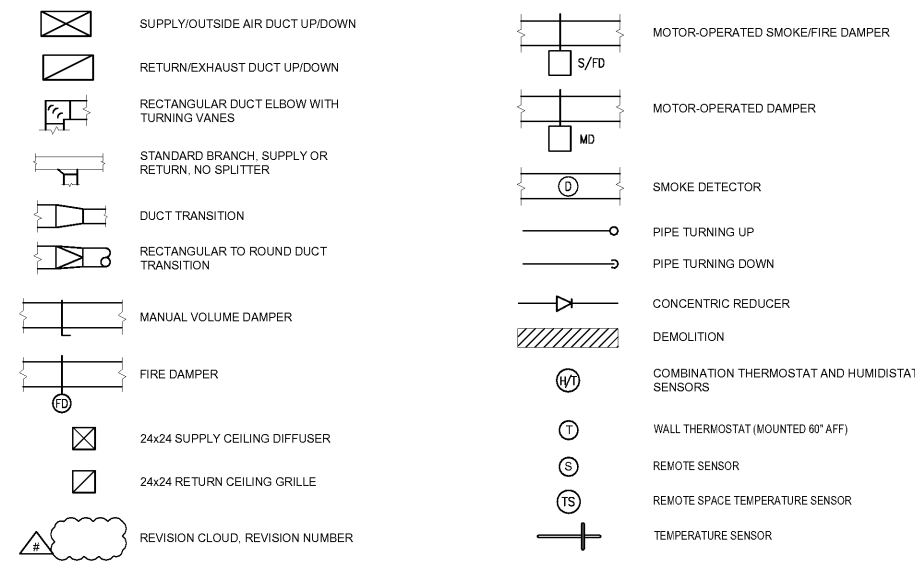


HVAC LEGEND

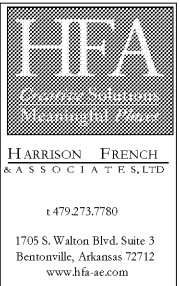


GENERAL NOTES

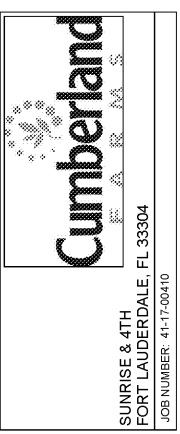
- ALL PIPING AND DUCTWORK SHOWN IS DIAGRAMMATIC ONLY. DETERMINE THE EXACT LOCATION IN THE FIELD.
- REVIEW ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, ELECTRICAL, FIRE PROTECTION AND SITE DRAWINGS BEFORE STARTING ANY WORK TO BECOME FAMILIAR WITH THE DETAILS OF CONSTRUCTION, AND TO COORDINATE WITH OTHER TRADES TO ELIMINATE CONFLICTS.
- OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME.
- PROVIDE ALL NECESSARY PIPING, EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS.
- PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE.
- INSTALL ALL WORK IN ACCORDANCE WITH STATE AND LOCAL CODES.
- DO NOT SCALE THESE DRAWINGS. TAKE ALL MEASUREMENTS IN THE FIELD IN COORDINATION WITH ALL EQUIPMENT AS APPROVED AND WITH ALL OTHER TRADES.
- ALL DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA.
- ALL PIPING HIGH POINTS SHALL HAVE 3/4 INCH VENTS AND LOW POINTS SHALL HAVE 3/4 INCH DRAINS.
- ALL ROTATING EQUIPMENT SHALL HAVE FLEXIBLE PIPE ON DUCT CONNECTIONS AND APPROVED VIBRATION ISOLATORS.
- DETAILS SHOWN ON SHEET M002 ARE APPLICABLE TO ALL EQUIPMENT, EXCEPT WHERE INDICATED.
- PROVIDE AIRTIGHT ACCESS DOOR FOR INSPECTION OF FIRE DAMPERS, FILTERS, AND COILS.
- CONTRACTOR SHALL VERIFY DUCT, PIPING AND EQUIPMENT LOCATIONS FOR INTERFERENCES BEFORE INSTALLATION.

ABBREVIATIONS

AC	AIR CONDITIONING	LPG	LIQUEFIED PETROLEUM GAS
AFF	ABOVE FINISHED FLOOR	LPS	LOW PRESSURE SWITCH
AHJ	AUTHORITY HAVING JURISDICTION	LRA	LOCKED ROTOR AMPS
AMB	AMBIENT	LT	LOW TEMPERATURE
AMP	AMPERE	LVG	LEAVING
APD	AIR PRESSURE DROP	MAX	MAXIMUM
ARCH	ARCHITECT	MBH	THOUSANDS BTUH
ASC	APPLICATION SPECIFIC CONTROLLER	MCA	MINIMUM CIRCUIT AMPACITY
ATC	AUTOMATIC TEMPERATURE CONTROL	MD	MOTORIZED DAMPER
ATM	ATMOSPHERE	MIN	MINIMUM
AV	AIR VENT	MO	MOTOR-OPERATED
BDD	BACK-DRAFT DAMPER	MOC	MAXIMUM OVER-CURRENT PROTECTION
BHP	BRAKE HORSEPOWER	MOC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NC	NOT IN CONTRACT
BTU/H	BTU PER HOUR	NO	NUMBER
C TO C	CENTER TO CENTER	NO	NORMALLY OPEN
CAP	CAPACITY	NTS	NOT TO SCALE
CD	CEILING DIFFUSER	NTS	NOT TO SCALE
CF	CUBIC FEET	PH	PHASE (ELECTRICAL)
CFH	CUBIC FEET PER HOUR	PH	PHASE (ELECTRICAL)
CFM	CUBIC FEET PER MINUTE	PSI	POUNDS PER SQUARE INCH
CONN	CONNECTION	PSIG	POUNDS PER SQUARE INCH GAGE
CNDS	CONDENSATE DRAIN	RA	RETURN AIR
D	DRAIN	RG	RETURN GRILLE
DB	DEGREE	RHC	REHEAT COIL
DEG	DEGREE	RH	RELATIVE HUMIDITY
DIA	DIAMETER	RLL	RUNNING LOAD AMPS
DN	DOWN	RLL	REFRIGERANT LIQUID LINE
Δ P	DELTA-P (PRESSURE DIFFERENTIAL)	RPM	REVOLUTIONS PER MINUTE
Δ T	DELTA-T (TEMPERATURE DIFFERENTIAL)	RSL	REFRIGERANT SUCTION LINE
DX	DIRECT EXPANSION (REFRIGERANT) COOLING	RTU	ROOF TOP UNIT
EA	EXHAUST AIR	S	SWITCH
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EG	EXHAUST GRILLE	SCT	SATURATED CONDENSING TEMPERATURE
ER	EXHAUST REGISTER	SD	SMOKE DETECTOR
EW	ENTERING WATER TEMPERATURE	SEN	SENSIBLE
F	FAHRENHEIT	SF	SQUARE FEET
FC	FLEXIBLE CONNECTOR	SP	STATIC PRESSURE
FLA	FULL LOAD AMPS	SR	SUPPLY REGISTER
FM	FEET PER MINUTE	TS	TEMPERATURE SENSOR
FPS	FEET PER SECOND	TSP	TOTAL STATIC PRESSURE
H	HIGH	TYP	TYPICAL
HO	HAND-OFF-AUTO	UH	UNIT HEATER
HP	HORSEPOWER	V	VOLT (ELECTRICAL)
HPS	HIGH PRESSURE SWITCH	VD	MANUAL VOLUME DAMPER
HZ	FREQUENCY (CYCLES PER SECOND)	W	WATT OR WIDE
ID	INSIDE DIAMETER	WB	WET BULB
IN	INCH		
KW	KILOWATT		
LAT	LATENT OR LEAVING AIR TEMPERATURE		
LB(S)	POUND(S)		
LD	LINEAR DIFFUSER		
LF	LINEAR FEET		



STIPULATION FOR REUSE: THIS DRAWING WAS PREPARED FOR THE PROJECT AND IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE PROJECT AND IS NOT TO BE EXTENDED TO ANY OTHER PROJECTS.



ISSUE BLOCK	
90% CDs	05/10/19
100% Set	06/14/19
90% AIM4.0	08/14/19
100% AIM4.0	09/11/19

CHECKED BY: BRT
DRAWN BY: BRT



2019.09.11 21:30:53-05'00"
David J. Schluter, P.E.
License #72212
Harrison French & Associates, LTD.
CD-920421
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

HVAC LEGEND, ABBREVIATIONS, GENERAL NOTES AND SCHEDULES

SHEET: M001

MARK	STOPS (CFM)		
	S/A	O/A	E/A
RTU-1	3500	---	---
RTU-2	3500	400	---
EF-1	---	---	150
EF-2	---	---	150
EF-3	---	---	320
EF-4	---	800	620

STOKE PRESSURIZATION (O/A) - (E/A) = +180 CFM

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR														
MARK	AREA SERVED	MANUFACTURER	MODEL	FAN DATA		HEAT		MOTOR DATA		ELECTRICAL DATA			OPERATING WEIGHT (LB.)	NOTES
				CFM	KW	QTY	HP	V	PH	AMPS	MCA	MOC		
AC-1	BACK DOOR	MARS	LPV2 48-1U	1,200	0	1	1/6	120	1	2.4	3	15	40	1,2,3

GENERAL NOTES:
1. UNIT SHALL BE COLOR WHITE.
2. UNIT SHALL BE INSTALLED AS SPECIFIED. PROVIDE CLEARANCE PER MANUFACTURER SPECIFICATIONS.
3. PROVIDE DOOR MAGNETIC CONTROL SWITCH TO TURN THE AIR CURTAIN "ON" WHEN THE DOOR OPENS AND "OFF" WHEN THE DOOR IS CLOSED.

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED AND INSTALLED BY CONTRACTOR (UNO)									
MARK	SERVICE	MANUFACTURER		STYLE	FRAME TYPE	FACE SIZE	NECK SIZE	NOTES	
		MODEL	PRICE						
CD-1	SUPPLY AIR	TITUS	PRICE	METAL-AIRE	SQUARE NECK	LAY-IN	24 X 24	9 X 9	1, 2, 3, 4
		TDC-AA	AMD	6000	CEILING DIFFUSER				
CD-2	SUPPLY AIR	TITUS	PRICE	METAL-AIRE	SQUARE NECK	LAY-IN	24 X 24	12 X 12	1, 2, 3, 4
		TDC-AA	AMD	5000	CEILING DIFFUSER				
CD-3	SUPPLY AIR	TITUS	PRICE	METAL-AIRE	SQUARE NECK	SURFACE	12 X 12	6 X 6	1, 2, 3, 4, 5
		TDC-AA	AMD	5000	CEILING DIFFUSER				
RG-1	RETURN AIR	TITUS	PRICE	METAL-AIRE	LOUVERED	LAY-IN	24 X 24	22 X 22	1, 2, 3, 4
		350F	AMD	30	CEILING GRILLE				
RG-2	RETURN AIR	TITUS	PRICE	METAL-AIRE	LOUVERED	SURFACE	24 X 12	12 X 12	1, 2, 3, 4
		350F	AMD	30	CEILING GRILLE				
RG-3	RETURN AIR	TITUS	PRICE	METAL-AIRE	OWNER PROVIDED	SURFACE	24 X 24	12"Ø	1, 4
		ES-1	AMD	5000	REMOVABLE FILTER				
LD-1	SUPPLY AIR	TITUS	PRICE	METAL-AIRE	LINEAR SLOT	SURFACE	48"	10"Ø	1, 4, 6, 7
		ML-39	AMD	6610	CEILING DIFFUSER			12"Ø	

- GENERAL NOTES:
- COORDINATE MOUNTING & FINISH REQUIREMENTS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
 - REFER TO DRAWINGS FOR NECK SIZES AND CFM UNLESS NOTED ABOVE; PROVIDE SQUARE TO ROUND TRANSITIONS WHERE REQUIRED.
 - STANDARD WHITE FINISH.
 - ALL ALUMINUM CONSTRUCTION.
 - FURNISHED WITH MANUFACTURER'S OPPOSED BLADE DAMPER IN NECK.
 - TWO 1" SLOTS FOR LD-1, THREE 1" SLOTS FOR LD-2. WHITE FRAME WITH FLANGED END, BLACK PATTERN CONTROLLERS.
 - PROVIDE MANUFACTURER'S INSULATED PLENUM.

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR												
MARK	AREA SERVED	MANUFACTURER	MODEL	TYPE	FAN DATA		ELECTRICAL DATA			REMARKS		
					CFM	RPM	SP (IN)	VOLTS	PHASE		HZ	AMPS
EF - 1	BATHROOM	NUTONE	OTKEN - 150	CEILING	150	1450	0.1	120	1	60	0.5	CONTROLLED BY WALL OCCUPANCY SENSOR, BY ELECTRICAL
EF - 2	SEE DRAWINGS	FANTECH	FG 6XL	INLINE	320	3031	0.5	120	1	60	1.32	PROVIDE COMBINATION OF WALL THERMOSTAT WITH REMOTE TEMPERATURE SENSOR

ALL PRODUCTS ON THIS SCHEDULE ARE FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR																				
MARK	MANUFACTURER	MODEL	DX COOLING COIL DATA				ELECTRIC HEATING DATA				AIR HANDLING DATA				ELECTRICAL DATA					
			COOLING TON/MBH		EAT 'F		INPUT		OUT		TOTAL CFM		SUPPLY FAN CAPACITY		EER	VOLTS	PHASE	MCA	MOC	WEIGHT (LBS)
			TOTAL	SENSIBLE	DB/WB	DB/WB	(kW)	(kW)	EAT 'F	LAT 'F			MIN O.A. CFM	H.P.	ESP(IN)	SEER				
RTU - 1	TRANE	YHC-120 (10 TONS)	102.1	77.2	75/64	55/54	27	20.5	56.0	109.0	3500	400	3.75	1.0	12.4	208	3	79.5	80	1675
RTU - 2	TRANE	YHC-120 (10 TONS)	102.1	77.2	75/64	55/54	27	20.5	56.0	109.0	3500	400	3.75	1.0	12.4	208	3	79.5	80	1675

- GENERAL NOTES (APPLIES TO ALL UNITS):
- PROVIDE FACTORY INSTALLED SMOKE DETECTORS FOR EACH UNIT (SUPPLY AND RETURN).
 - PROVIDE COMBINATION HUMIDITY/TEMPERATURE REMOTE SENSOR (TYPICAL FOR RTU-1 & RTU-2). PROGRAMMABLE WALL THERMOSTAT BY OTHERS. REF PLANS FOR LOCATION.
 - PROVIDE UNIT WITH MANUFACTURER HURRICANE TYPE ROOF CURB SUPPORTS TO MEET FLORIDA CODE AND REGULATIONS.
 - PROVIDE UNIT WITH MICRO PROCESSOR CONTROLS.
 - PROVIDE UNIT WITH COMPARATIVE ENTHALPY ECONOMIZER (ENTHALPY 0-100%) WITH BAROMETRIC RELIEF.
 - PROVIDE A SET OF SPARE PLEATED FILTERS MERV 8, PROVIDED BY GC.
 - NON-FUSED DISCONNECT.
 - PROVIDE UNIT WITH HOT GAS REHEAT (DEHUMIDIFICATION).
 - PROVIDE POWERED CONVENIENCE OUTLET.
 - SET UNITS FOR CONTINUOUS FAN OPERATION.
 - UNITS COME WITH CONVERTIBLE CONFIGURATION => HORIZONTAL.
 - FACTORY APPLIED CORROSION INHIBITING TREATMENT REQUIRED.
 - TREAT CONDENSER, EVAPORATOR, AND REHEAT COILS WHEN LOCATED WITHIN 5 MILES TO THE COAST.
 - PROVIDE UNIT WITH "S" STYLE CLIPS. CLIPS SHALL BE CDI MODEL # 10-S-CLIP-3110
 - PROVIDE UNIT WITH CONDENSATE OVERFLOW SWITCH.