

STANDARD ABBREVIATION AND SYMBOLS LEGEND APPLIES TO ALL HVAC, PLUMBING, AND FIRE PROTECTION SHEETS			
ABBR. & SYMBOLS	DESCRIPTION	ABBR. & SYMBOLS	DESCRIPTION
AF	ABOVE FINISHED FLOOR	FD	FLOOR DRAIN
AFG	ABOVE FINISHED GRADE	VTR	VENT THROUGH ROOF
HD	HUB DRAIN	NO	NORMALLY OPEN
HB	HOSE BIBB	NC	NORMALLY CLOSED / NOISE CRITERIA
IC	IN OR ABOVE CEILING	NTS	NOT TO SCALE
ICB	IN OR ABOVE CEILING BELOW	NIC	NOT IN CONTRACT
BC	BELOW CEILING	OA	OUTSIDE AIR
UF	UNDER FLOOR	RA	RETURN AIR
UG	UNDER GRADE OR GROUND	SA	SUPPLY AIR
VFD	VARIABLE FREQUENCY DRIVE	FBI	FOUNDS PER SQUARE INCH
CFM	CUBIC FEET PER MINUTE	RPM	REVOLUTIONS PER MINUTE
BTU	BRITISH THERMAL UNIT	SH	SENSIBLE HEAT
BTUH	BTU PER HOUR	TH	TOTAL HEAT
MBH	THOUSAND BTU PER HOUR	SP	STATIC PRESSURE, AIR
EDB/LDB	ENTERING OR LEAVING DRY BULB TEMPERATURE	T-STAT	THERMOSTAT
EUB/LUB	ENTERING OR LEAVING WET BULB TEMPERATURE	V	V
AHU	AIR HANDLING UNIT	Ø	DIAMETER OR ELECTRICAL PHASE
ACCU	AIR COOLED CONDENSING UNIT	°F	DEGREE FAHRENHEIT
UH	UNIT HEATER	FFM	FEET PER MINUTE
EAT/LAT	ENTERING OR LEAVING AIR TEMPERATURE	UC	DOOR UNDERCUT
KW	KILOWATT	UC	PROJECT SPECIFIC MECHANICAL NOTE
KWH	KILOWATT PER HOUR	Ⓢ	TEMPERATURE SENSOR OR THERMOSTAT
HP	HORSEPOWER	Ⓜ	HUMIDITY SENSOR OR HUMIDISTAT
BHP	BREAK HORSEPOWER	Ⓜ	MONITOR MONOXIDE SENSOR
RH	RELATIVE HUMIDITY	Ⓜ	CONNECT TO EXISTING
Ⓜ	BALL VALVE	Ⓜ	UP
Ⓜ	GATE VALVE	Ⓜ	TEE DOWN
Ⓜ	SHUTOFF VALVE - BALL OR GATE VALVE	Ⓜ	Ⓜ
Ⓜ	BALANCING COCK, PLUG VALVE	Ⓜ	Ⓜ
Ⓜ	CIRCUIT BALANCING VALVE WITH PWT PLUGS	Ⓜ	Ⓜ
Ⓜ	SILENT NON-SLAM CHECK VALVE	Ⓜ	Ⓜ
Ⓜ	STRAINER WITH BLOW DOWN (BALL VALVE AND CARRIED HOSE END CONNECTION)	Ⓜ	Ⓜ
Ⓜ	PIPE CAP	Ⓜ	Ⓜ
Ⓜ	LONG RADIUS PIPE ELBOW	Ⓜ	Ⓜ
Ⓜ	PIPE TEE	Ⓜ	Ⓜ
Ⓜ	COLD WATER	Ⓜ	Ⓜ
Ⓜ	HOT WATER	Ⓜ	Ⓜ
Ⓜ	HOT WATER RETURN	Ⓜ	Ⓜ
Ⓜ	SOIL OR WASTE PIPING	Ⓜ	Ⓜ
Ⓜ	VENT PIPING	Ⓜ	Ⓜ
Ⓜ	CHILLED WATER SUPPLY	Ⓜ	Ⓜ
Ⓜ	CHILLED WATER RETURN	Ⓜ	Ⓜ
Ⓜ	ROOF DRAIN	Ⓜ	Ⓜ
Ⓜ	CONDENSATE DRAIN LINE	Ⓜ	Ⓜ
Ⓜ	EXISTING TO BE REMOVED	Ⓜ	Ⓜ

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE WITH ELECTRIC HEAT							
TAG	NOM. CFM	MIN. CFM	INLET DIA.	BOX RANGE	KW	VOLTAGE	REMARKS
VAV-1A	1500	600	12	0-2100	6	480/3ø	
VAV-2A	1400	560	10	0-1450	4	480/3ø	
VAV-3A	1800	720	12	0-2100	8	480/3ø	
VAV-5A	700	280	7	0-710	2.5	480/3ø	
VAV-6A	500	200	6	0-520	2.5	480/3ø	
VAV-7A	500	200	6	0-520	2.5	480/3ø	
VAV-1B	1800	720	12	0-2100	8	480/3ø	
VAV-2B	400	160	6	0-520	2.5	480/3ø	
VAV-3B	1020	408	9	0-1200	3	480/3ø	
VAV-5B	2500	1000	14	0-2300	11	480/3ø	
VAV-6B	1200	510	10	0-1450	6	480/3ø	
VAV-9B	860	340	8	0-925	4	480/3ø	
VAV-10B	1500	600	12	0-2100	4	480/3ø	
VAV-11B	165	300	8	0-925	3	480/3ø	
VAV-12B	955	380	9	0-1200	3	480/3ø	
VAV-13B	230	95	4	0-230	2.5	480/3ø	
VAV-14B	1440	575	10	0-1450	7	480/3ø	
VAV-15B	425	170	6	0-520	2.5	480/3ø	
VAV-1C	600	240	7	0-710	3	480/3ø	
VAV-2C	300	120	5	0-360	2.5	480/3ø	
VAV-3C	1100	440	9	0-1200	4	480/3ø	
VAV-4C	1130	690	12	0-2100	8	480/3ø	
VAV-5C	920	370	8	0-925	3	480/3ø	
VAV-6C	400	160	6	0-520	2.5	480/3ø	
VAV-7C	380	150	6	0-520	2.5	480/3ø	
VAV-8C	120	50	4	0-230	2.5	480/3ø	
VAV-9C	375	150	6	0-520	2.5	480/3ø	
VAV-10C	3700	1440	16	0-3100	10	480/3ø	
VAV-11C	740	295	8	0-925	3	480/3ø	
VAV-12C	150	60	4	0-230	2.5	480/3ø	
VAV-13C	750	300	8	0-925	2.5	480/3ø	
VAV-14C	1600	640	12	0-2100	10	480/3ø	
VAV-15C	380	150	6	0-520	2.5	480/3ø	
VAV-16C	380	150	6	0-520	2.5	480/3ø	
VAV-17C	900	360	8	0-925	5	480/3ø	
VAV-18C	2350	940	14	0-2300	10	480/3ø	

NOTES:
1. VAV BOXES WITH LETTER "A" SUFFIX SERVED BY AHU-1, WITH LETTER "B" SUFFIX SERVED BY AHU-2 AND WITH LETTER "C" SUFFIX SERVED BY AHU-3.

VARIABLE AIR VOLUME (VAV) BOX SCHEDULE					
TAG	NOM. CFM	MIN. CFM	INLET DIA.	BOX RANGE	REMARKS
VAV-4A	700	280	10	0-1450	
VAV-4B	500	200	6	0-520	
VAV-6B	310	125	5	0-360	
VAV-7B	350	140	5	0-360	

HVAC PUMP SCHEDULE							
TAG	SERVICE	GPM	DYN. HEAD FT. W.G.	V	PH	HP	REMARKS
P-1	CHILLED WATER	276.5	73	480	3	10	1150
P-2	CHILLED WATER	276.5	73	480	3	10	1150

- PUMPS MAY BE INCLUDED AS PART OF PACKAGED UNIT ON SINGLE SKID FROM CHILLER MANUFACTURER.
- PROVIDE INVERTER RATED MOTOR.
- FLEX. COUPLED PUMPS.

AIR COOLED CHILLER SCHEDULE											
MARK	CAPACITY (TONS)	AMBIENT (DEG. F)	EWT (DEG. F)	LWT (DEG. F)	GPM	ΔP (FEET)	VOLTAGE	MCA	MCCP	MODEL	REMARKS
CH-1	120	95	56	44	276.0	13.3	460/3ø/60	276.8	300.0	30RBB20	-

- UNITS TO OPERATE DOWN TO 32 DEGREES F AMBIENT.
- UNITS TO HAVE ELECTRONIC CONTROLS WITH LEAVING WATER SETPOINT CONTROL.
- UNITS TO HAVE ELECTRONIC EXPANSION VALVES.
- UNIT TO HAVE UNIT MOUNTED STARTER/CONTROL PANEL.
- UNIT TO HAVE NEOPRENE ISOLATION.
- UNIT TO HAVE INTEGRAL FACTORY DISCONNECT.
- UNIT TO HAVE HALL GUARDS.

EXPANSION TANK				
TAG	LOCATION	TYPE	ACCEPTANCE VOLUME GALLONS	REMARKS
ET-1	MECHANICAL ROOM	BLADDER	25	1

1) SET TANK AT 12 PSI

CHILLED WATER AIR HANDLING UNIT SCHEDULE																		
MARK	LOCATION	BLOWER SECTION				CHILLED WATER COOLED SECTION						SINGLE POINT ELECTRICAL		GENERAL DATA				
		CFM	O.A.	E.S.P.	SEN. CAP.	TOT. CAP.	EDB/EWB	LDB/LUB	GPM	ΔT (F)	ΔP (FT.)	VOLTAGE	PHASE	HP.	MANUFACTURER	MODEL	REMARKS	
AHU-1	ROOM 168	1175	2380	1"	236.210	388.910	81.5/69.4	53.7/53.5	64.8	12	4.8	W.C.	460	3ø	15	CARRIER	39"IN SIZE 11	
AHU-2	ROOM 168	13.6/12	2900	1.25"	405.6/00	599.110	80.5/67.5	53.4/53.2	93.9	12	4.3	W.C.	460	3ø	15	CARRIER	39"IN SIZE 30	
AHU-3	ROOM 168	15.3/86	2460	1.50"	491.910	670.830	81.6/66.4	52.0/51.8	111.8	12	1.3	W.C.	460	3ø	15	CARRIER	39"IN SIZE 36	

- PROVIDE 2 SETS OF MERV 8 FILTERS.
- UNIT TO BE INTERNALLY ISOLATED.
- MAXIMUM ALLOWABLE PRESSURE DROP ACROSS CONTROL VALVE = 5 P.S.I.
- DISCONNECT SWITCH BY DIVISION 16.
- VFD UNITS ARE TO BE FURNISHED UNDER DIVISION 15 AND INSTALLED UNDER DIVISION 16. SEE SPECIFICATIONS.
- DUCT MOUNTED SMOKE DETECTOR FOR FAN SHUT.
- PROVIDE HOUSEKEEPING PAD.

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																						
TAG	RATED CAPACITY MBH	SENSIBLE CAPACITY MBH	INDOOR UNIT				FAN ELECTRICAL DATA						OUTDOOR UNIT					REMARKS				
			EXT. CAPACITY CFM	EXT. TONS	HP	WEG	V	PH	HP	FLA	MCA	OPD	TAG	REFRIG. MBH	APHS (F)	EFFECT TEMP (F)	V		PH	FLA	MCA	OPD
AHU-4	169.6	160.2	11200	0.5	15	460	3	5	54.4	66.5	70	ACCU-4	169.6	95	460	3	4.2	4.8	15	15	LIEBERT VH 195A/CXX025	

- MECHANICAL EQUIPMENT SHALL BE INSTALLED WITH THE NECESSARY CLEARANCES AS REQUIRED BY MANUFACTURER'S SPECIFICATIONS AND CODE COMPLIANCE REQUIREMENTS.
- OUTDOOR UNIT TO BE LOCATED ON CONCRETE PAD NORTH OF ROOM 146.
- ROUTE CONDENSATE LINE TO CLOSEST AVAILABLE DRAIN.
- PROVIDE WITH ELECTRIC HUMIDIFICATION OPTION.
- SEE SHEET M13 FOR REFRIGERANT PIPING DETAIL.

EXHAUST FAN SCHEDULE								
TAG	ROOMS SERVED	CFM	E.S.P.	HP	VOLTS/PH/Hz	TYPE	MANUFACTURER/MODEL	NOTES
EF-1	172, 184, 185	125	0.125"	1/60	120/1/60	CENT.-ROOF	GREENHECK CUE - 070G	1, 2, 3
EF-2	143, 147, 152, 154	390	0.25"	1/20	120/1/60	CENT.-WALL	GREENHECK CU-085D	2, 3, 4
EF-3	112, 113, 114	225	0.125"	1/60	120/1/60	CENT.-ROOF	GREENHECK CUE - 070G	1, 2, 3
EF-4	132, 134	510	0.125"	1/20	120/1/60	CENT.-ROOF	GREENHECK CUE - 085D	1, 2, 3
EF-5	256	75	0.1"	1/200	120/1/60	CENT.-ROOF	GREENHECK CUE - 060E	1, 2, 3
EF-6	218, 220	510	0.125"	1/15	120/1/60	CENT.-ROOF	GREENHECK CUE - 090D	1, 2, 3
EF-7	202, 203	195	0.1"	1/100	120/1/60	CENT.-ROOF	GREENHECK CUE - 070E	1, 2, 3

- WITH OPTIONAL ROOF CURB
- WITH TFC MOTOR
- WITH FACTORY-MOUNTED DISCONNECT SWITCH
- WITH BACKDRAFT DAMPER

AIR DEVICE SCHEDULE
PRICE INDUSTRIES MODELS SHOWN OR EQUIVALENT, NAILOR AND TITUS.
PROVIDE AIR DISTRIBUTION DEVICES WITH ALL ALUMINUM CONSTRUCTION INCLUDING ACCESSORIES, INSTALLED WITH STAINLESS STEEL SCREWS.
PROVIDE ALUMINUM PLASTER RINGS FOR MOUNTING AIR DEVICES IN HARD CEILING'S SUCH AS PLASTER, GYPSUM BOARD, DRY WALL, ETC. MATCH COLOR OF AIR DEVICE INSTALLED IN PLASTER RING.
PROVIDE AIR DEVICES WITH POWDER COAT FINISH, COLOR AS SELECTED BY THE ARCHITECT.
THE INTERIOR OF ALL AIR DEVICES INCLUDING ACCESSORIES SHALL BE FLAT BLACK.
LOCATE ALL CEILING MOUNTED AIR DEVICES IN THE CEILING GRID. COORDINATE WITH OTHER DIVISIONS OF THE WORK AND THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.
PROVIDE A SHEET METAL RADIUS ELBOW FULL SIZE OF CEILING DIFFUSER, EXHAUST REGISTER OR R.A. GRILLE NECK FOR CONNECTION TO THE NECK AND FLEXIBLE DUCT, WHERE REQUIRED.
AIR QUANTITY AND NECK SIZE AS SHOWN ON THE DRAWINGS.
AIR DISTRIBUTION TYPES
TYPE (A) PRICE MODEL "ASGDA", ALL ALUMINUM CONSTRUCTION, SURFACE MOUNT OR LAY-IN, AS REQUIRED, AND SIZES AS INDICATED ON PLANS.
TYPE (B) PRICE MODEL "620" LOUVERED SUPPLY, ALL ALUMINUM CONSTRUCTION, SURFACE MOUNT, FRONT BLADES PARALLEL TO LONG DIMENSION, BORDER TYPE F, WITH STEEL DAMPER, SIZE AS SHOWN ON DRAWINGS.
TYPE (C) PRICE MODEL "80" EGGRATE FACE RETURN, SURFACE MOUNT OR DROP-IN, AS REQUIRED, AND SIZES AS INDICATED ON PLANS. GRILLES SHALL BE OF ALUMINUM CONSTRUCTION CONSISTING OF 1/2"x1/2"x1/2" GRID CORE AND EXTRUDED ALUMINUM BORDER.

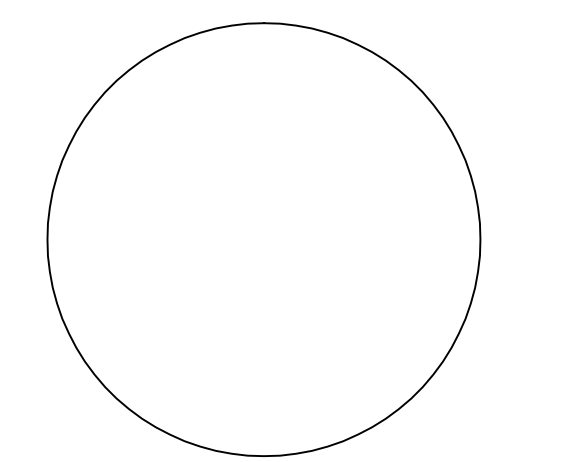


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ST. TAMMANY PARISH SHERIFF'S OFFICE
BROWNSWITCH ROAD
SLIDELL, LOUISIANA

CONSTRUCTION DOCUMENTS



MECHANICAL SCHEDULES
Sheet Number: M-1.5