

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	DIFFUSER	[Symbol]	EQUIPMENT (SEE SCHEDULE)
[Symbol]	RETURN AIR GRILLE	[Symbol]	EQUIPMENT NUMBER
[Symbol]	RETURN OR EXHAUST DUCT UP	[Symbol]	INDICATES DETAIL, PLAN, SECTION, AND/OR DIAGRAM (APPLIES ONLY WHERE INDICATED ON DRAWINGS)
[Symbol]	SUPPLY DUCT UP	[Symbol]	INDICATES DRAWING ON WHICH DETAIL APPEARS
[Symbol]	SUPPLY DUCT DOWN	[Symbol]	INDICATES TYPICAL DETAIL (APPLIES TO ALL CONTRACT DRAWINGS)
[Symbol]	RETURN OR EXHAUST DUCT DOWN	[Symbol]	INDICATES DRAWING ON WHICH DETAIL APPEARS
[Symbol]	ROUND DUCT DOWN	[Symbol]	INDICATES SECTION NUMBER
[Symbol]	ROUND DUCT UP	[Symbol]	INDICATES ON WHICH DRAWING SECTION APPEARS
[Symbol]	VANED ELBOW	[Symbol]	INDICATES REVISION & NUMBER
[Symbol]	LOW PRESSURE FLEX DUCT	[Symbol]	CONNECT NEW TO EXISTING
[Symbol]	45° TAKEOFF FITTING	[Symbol]	SHEET NOTE NUMBER
[Symbol]	MANUAL VOLUME DAMPER	[Symbol]	DIFFUSER TYPE
[Symbol]	FIRE/SMOKE DAMPER	[Symbol]	SIZE
[Symbol]	FIRE DAMPER	[Symbol]	CFM
		[Symbol]	THERMOSTAT
		[Symbol]	HUMIDISTAT
		[Symbol]	WALL SWITCH
		[Symbol]	DUCT MOUNTED SMOKE DETECTOR
		[Symbol]	MOTORIZED DAMPER ACTUATOR
		[Symbol]	DOOR UNDERCUT

PACKAGED TERMINAL AIR CONDITIONER SCHEDULE																
MARK	MANUFACTURER	MODEL	SERVES	AIRFLOW (CFM)	VENTILATION (CFM)	COOLING CAPACITY (BTU/H)	EER	NOMINAL HEATING (BTU/H)	ELECTRIC HEAT (KW)	ELECTRICAL INFORMATION				REMARKS		
										VOLTAGE	PHASE	AMPS	WATTS	MCA	MOCP	
PTAC-1	AMANA	PTC073G25RXXX**	GUEST ROOMS	310	65	7,700	11.7	6,800	2.5	208	1	10.1	2,115	14.1	15	1,2,3,4,5,6,7
PTAC-2	AMANA	PTC153G35RVXXX**	CORRIDORS	360	95	14,700	10.0	9,900	3.5	208	1	14.1	2,935	19.5	20	1,2,3,4,5,6,8,9
PTAC-3	AMANA	PBE093G35**	ELECTRICAL ROOM	265	0	8,900	9.8	9,000	2.9	208	1	14.0	2,900	19.4	20	1,2,3,4,9

**REMARKS:**

- EQUIPMENT SELECTIONS BASED ON AMANA BRAND THRU-WALL CHASSIS UNITS WITH ELECTRIC COOLING & HEATING. FRONT COVER & FACTORY INSTALLED POWER CORD INCLUDED. WSS00E 42" WIDE STONEWOOD BEIGE COLOR INSULATED METAL WALL SLEEVE & POK1TB STONEWOOD BEIGE COLOR EXTERIOR ARCHITECTURAL GRILLE REQUIRED FOR ALL PTC UNITS. PBWS01A 26" WIDE STONEWOOD BEIGE COLOR INSULATED METAL WALL SLEEVE & PBAK01TB STONEWOOD BEIGE COLOR EXTERIOR ARCHITECTURAL GRILLE REQUIRED FOR PBE UNIT.
- PTC & PBE CHASSIS UNITS TO BE PROVIDED WITH PERMANENT SLIDE-OUT INDOOR INTAKE AIR FILTERS.
- COOLING CAPACITIES & EER ARE BASED ON AHR1 CONDITIONS AT 208/60/1. UNITS SHALL OPERATE AT A MINIMUM OF 197 VOLTS AND A MAXIMUM OF 253 VOLTS.
- PTC AND PBE CHASSIS UNITS TO BE INSTALLED INTO WALL SLEEVE AND EXTERIOR GRILLE PER NOTE #1.
- FOR ALL PTC CHASSIS UNITS, FIELD PROGRAM ROOM # INTO PTAC TOUCH PAD.
- ALL PTC CHASSIS UNITS TO HAVE FACTORY PROVIDED RF ANTENNA.
- PROVIDE D031E RF WIRELESS MOTION SENSOR / DOOR SWITCH IN ALL GUESTROOMS (SEE ARCH PLANS FOR LOCATION).
- PROVIDE D031E RF WIRELESS WALL THERMOSTAT WITH HONEYWELL-TG5-2A1009 LOCKABLE COVER & KL03E KEY LOCK KIT ON ALL PTC153G35RVXX UNITS WITH FACTORY INSTALLED POWER VENT AT END OF CORRIDORS. SEE ARCH PLANS FOR LOCATIONS.
- UNITS PROVIDED IN NON-GUEST ROOM AREAS (CORRIDORS, ELECTRICAL ROOM) DO NOT REQUIRE D031E RF WIRELESS MOTION SENSOR / DOOR SWITCH.

EXHAUST FAN SCHEDULE															
MARK	MANUFACTURER	MODEL	SERVES	AIRFLOW (CFM)	ESP (IN)	FAN DATA			MOTOR DATA			CONTROL TYPE	HEIGHT (FT)	REMARKS	
						TYPE	RPM	SONES	DRIVE	WATTS	VOLTAGE	PHASE			
EF-1	COOK	GC-126	GUEST ROOMS	55	0.25	CENTRIFUGAL	708	1	DIRECT	29	120	1	WALL MOUNTED	25	1,2,3,5,6,7,8
EF-2	COOK	GC-126	UTILITY ROOM 440	35	0.25	CENTRIFUGAL	587	1.5	DIRECT	29	120	1	CONTINUOUS	25	1,2,3,5,6,8
EF-3	COOK	GC-542	MECHANICAL ROOM	300	0.25	CENTRIFUGAL	1387	4.5	DIRECT	100	120	1	THERMOSTAT	45	1,2,3,5,6,7,8
EF-4	COOK	GC-146	RESTROOM 136	75	0.38	CENTRIFUGAL	900	2	DIRECT	36	120	1	SWITCH W/ LIGHTS	25	1,2,3,4,8
EF-5	COOK	GC-146	FITNESS ROOM	75	0.38	CENTRIFUGAL	900	2	DIRECT	36	120	1	SWITCH W/ LIGHTS	25	1,2,3,4,8
EF-6	COOK	GC-128	UTILITY ROOM 340	35	0.25	CENTRIFUGAL	587	1.5	DIRECT	29	120	1	CONTINUOUS	25	1,2,3,5,8
EF-1	COOK	GC-542	ELEVATOR SHAFT	300	0.5	CENTRIFUGAL	1575	5	DIRECT	100	120	1	CONTINUOUS	45	1,2,3,5,8

**REMARKS:**

- PROVIDE WITH FACTORY DISCONNECTS, BACKDRAFT DAMPERS, VIBRATION ISOLATION, CEILING RADIATION DAMPERS, AND THERMOSTAT WHERE NOTED AS "CONTROL TYPE".
- PROVIDE SPEED CONTROLLERS WITH DIRECT DRIVE MOTORS.
- ALL SWITCHES, INTERLOCKS, RELAYS, TRANSFORMERS, TIMELOCKS, MOTOR STARTERS, ETC. TO BE PROVIDED BY THE DIVISION 26. SEE ELECTRICAL PLANS.
- PROVIDE WHITE, NON-YELLOWING, HIGH IMPACT STYRENE INJECTED MOLDED CEILING GRILLE.
- PROVIDE WHITE ALUMINUM CEILING GRILLE.
- PROVIDE COOLING ONLY THERMOSTAT FOR EF-3.
- ACCEPTABLE ALTERNATE BROAN FANS MAY BE USED: MODEL #L100 (L101) AND #L300 (EF-3).
- REFER TO SPECIFICATIONS FOR FAN TYPES AND ACCESSORIES.

WALL MOUNTED HEATER SCHEDULE													
MARK	MANUFACTURER	MODEL	TYPE	SERVES	HEATING (BTU/H)	ELECTRICAL DATA				WEIGHT (LBS)	REMARKS		
						VOLTAGE	PHASE	KW	AMPS				
EUH-1	QMARK	EFF-400	ELECTRIC	VESTIBULE 135	10,239	208	1	3.0	14.4	23	1		
EUH-2	QMARK	EFF-400	ELECTRIC	HALL / VENDING 136	10,239	208	1	3.0	14.4	23	1		
EUH-3	QMARK	EFF-400A	ELECTRIC	MECHANICAL ROOM 140	10,239	208	1	3.0	14.4	23	1		
EUH-4	QMARK	AWH-440A	ELECTRIC	STAIRS 152	10,235	208	1	3.0	14.4	20	2		
EUH-5	QMARK	AWH-440A	ELECTRIC	STAIRS 150	10,235	208	1	3.0	14.4	20	2		

**REMARKS:**

- PROVIDE WITH 208/24V TRANSFORMER & 24V SECONDARY CONTROL RELAY, SURFACE MOUNTING FRAME, AND SINGLE-POLE THERMOSTAT.
- PROVIDE WITH UNIT MOUNTED TAMPER RESISTANT LOW VOLTAGE THERMOSTAT (40°F-90°F), POWER DISCONNECT SWITCH, WALL MOUNTING BRACKET.

FAN COIL UNIT SCHEDULE																							
MARK	MANUFACTURER	MODEL	SERVES	AIRFLOW			COOLING			HEATING			ELECTRICAL				MOTOR		WEIGHT	REMARKS			
				ESP (IN)	CFM	MINIMUM OUTDOOR AIR (CFM)	NOMINAL CAPACITY (TONS)	TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	AMBIENT AIR (°F)	EDS / EWB (°F)	LDB / LWB (°F)	MODEL	TOTAL CAPACITY (KW)	EDS / LDB (°F)	VOLTAGE	PHASE	MCA			MOCP	HP	TYPE
FCU-1	RUUD	RP14-36AJ	LOBBY	0.5	1200	175	3	35.4	25.9	95	80/67	57/55	RXGH-1724707J	5.4	65/80	208	1	36	40	1/3	DIRECT	125	1,2,3,4,5
FCU-2	RUUD	RP14-24AJ	STAFF LAUNDRY	0.5	800	80	2	23.8	17.6	95	80/67	57/55	RXGH-1724707J	5.4	65/80	208	1	35	35	1/5	DIRECT	100	1,2,3,4,5
FCU-3	RUUD	RP14-48AJ	GUEST LAUNDRY	0.5	1600	150	4	47.2	34.5	95	80/67	57/55	RXGH-1724707J	5.4	65/80	208	1	39	40	3/4	DIRECT	150	1,2,3,4,5

**REMARKS:**

- PROVIDE WITH FACTORY FURNISHED PIPING & VALVE KIT. PROVIDE ALL VALVES & ACCESSORIES FOR DX CONNECTIONS.
- PROVIDE WITH FAN SWITCH, CONTROL TRANSFORMER AND ALL NECESSARY CONTROL ACCESSORIES.
- PROVIDE WITH (2) SETS OF FILTERS.
- ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. PROVIDE WATER SENSING SWITCH IN CONDENSATE PAN HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM. THE UNIT SHALL SHUT DOWN UPON ALARM FROM SWITCH.
- PROVIDE THERMOSTAT WITH HONEYWELL-TG5-2A1009 LOCKABLE COVER.

**GENERAL NOTES:**

- DEFINITIONS: FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS". INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CLEANING, CURING, PROTECTING, AND SIMILAR OPERATIONS. PROVIDE: THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- ALL WORK SHALL COMPLY WITH CURRENT FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES AS WELL AS THE CONSTRUCTION DOCUMENTS. ANY CONFLICTS TO THE ENGINEER AS SOON AS THEY ARE DISCOVERED.
- UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS AND SPECIFICATIONS SHALL INCLUDE THE FURNISHING AND INSTALLATION OF ALL LABOR AND MATERIALS NECESSARY FOR COMPLETE PERFORMANCE OF THE SYSTEM. CONTRACTOR SHALL FURNISH THESE ITEMS UNLESS NOTED OTHERWISE. ISOLATION AND BALANCING DEVICES, CLEARANCES, ETC. ARE NOT SPECIFICALLY SHOWN IN THE DRAWINGS AND SPECIFICATIONS. DRAWINGS AND SPECIFICATIONS CARRY EQUAL IMPORTANCE AND ITEMS LISTED IN EITHER SHALL BE PROVIDED. THE CONTRACTOR SHALL ALSO REVIEW DETAILS AND RISES FOR ITEMS TO BE PROVIDED. THE CONTRACTOR SHALL FURNISH SPECIFICALLY REFERRED TO ON PLANS OR NOT.
- DATA GIVEN ON THE DRAWINGS IS AS EXACT AS POSSIBLE. ABSOLUTE ACCURACY IS NOT GUARANTEED. OBTAIN ANY NECESSARY EXACT LOCATIONS, MEASUREMENTS, POTENTIAL CONFLICTS WITH OTHER TRADES, ETC. AT THE SITE AND SATISFACTORILY ADAPT THE WORK TO ACTUAL CONDITIONS AND DRAWINGS. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED. HOWEVER, THIS DOES NOT PRECLUDE ANY SCALED WORK FROM BEING REQUIRED BY THE CONTRACTOR TO ADJUSTING THEIR WORK AS REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING A BID TO BECOME THOROUGHLY FAMILIAR WITH THE ACTUAL CONDITIONS OF THE PROJECT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL ITEMS WITH THE CORRESPONDING DISCIPLINES WITH THE CORRESPONDING CONTRACTOR AND THE GENERAL CONTRACTOR IF EQUIPMENT, MATERIALS, ETC. OTHER THAN THOSE SCHEDULED AND SPECIFIED (PENDING PRE-APPROVAL) ARE PROVIDED.
- COORDINATE AND ADJUST ALL WORK BETWEEN TRADES AND EXISTING CONDITIONS IN ORDER TO ACCOMPLISH A NEAT, INTEGRATED AND EFFICIENT INSTALLATION. CHANGE ORDERS WILL NOT BE GRANTED DUE TO LACK OF COORDINATION WITH JOB CONDITIONS AND/OR OTHER CONTRACTORS.
- EXISTING EQUIPMENT, DUCTWORK, AND PIPING SIZES AND LOCATIONS ARE SHOWN FOR REFERENCE ONLY. ADJUST EXACT INSTALLATION AND CONNECTION OF NEW ITEMS ACCORDING TO ACTUAL CONDITIONS.
- GENERAL CONTRACTOR SHALL CUT AND PATCH FLOOR, WALLS, AND ROOF AS REQUIRED FOR INSTALLATION/DEMOLITION OF MECHANICAL SYSTEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE OF RELOCATED EQUIPMENT AND MATERIALS DURING CONSTRUCTION. ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- UPON COMPLETION OF THE PROJECT, PROVIDE AS-BUILT DRAWINGS TO THE OWNER, ARCHITECT, AND ENGINEER SHOWING EQUIPMENT, DUCTWORK, PIPING, ETC. THAT DIFFERS FROM CONSTRUCTION DOCUMENTS AS THEY ARE ACTUALLY INSTALLED.
- EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (I.E. THE ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL LIGHTING PLAN, FIRE PROTECTION PLAN, ETC.). THE RESPONSIBILITY OF EACH CONTRACTOR IS NOT LIMITED TO THEIR SPECIFIC DISCIPLINE'S DRAWING SHEETS. REFER TO OTHER DISCIPLINES' DRAWING SHEETS AS REQUIRED FOR ADDITIONAL INFORMATION/INSTRUCTIONS.
- FIRE SEAL ALL PENETRATIONS THROUGH RATED WALLS. SLEEVE IN ENTIRETY WITH APPROPRIATE SLEEVE MATERIAL.
- MAINTAIN ALL REQUIRED SERVICE, FRESH AIR, AND ROOF EDGE CLEARANCES FOR ALL NEW AND EXISTING EQUIPMENT, DUCTWORK, AND PLUMBING VENTS.
- COORDINATE NECESSARY EQUIPMENT, DUCTWORK AND PIPING LOCATIONS SO THAT THE FINAL INSTALLATION IS COMPATIBLE WITH THE MATERIALS AND EQUIPMENT OF THE OTHER TRADES.
- PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION OF WORK BETWEEN TRADES.
- REFER TO THE ARCHITECTURAL DIVISION FOR EXACT LOCATION OF ALL VISIBLE FIXTURES, EQUIPMENT AND AIR DEVICES.
- MAINTAIN A MARK-UP SET OF DRAWINGS WHICH INDICATE VARIATIONS IN THE ACTUAL INSTALLATION FROM THE ORIGINAL DESIGN. SURRENDER DRAWINGS TO OWNER UPON COMPLETION.
- VERIFY THE ELECTRICAL SERVICE PROVIDED BY THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
- COORDINATE ALL REQUIRED BREAKER SIZES WITH ELECTRICAL CONTRACTOR UPON RECEIPT OF RETURNED SUBMITTALS. NO COST CHANGES WILL BE ACCEPTED FOR FAILURE TO COORDINATE.
- SUSPEND EACH TRADE'S WORK SEPARATELY FROM THE STRUCTURE. DUCTWORK SHALL BE HELD TIGHT TO STRUCTURE EXCEPT WHERE SHOWN OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCE ALL AROUND ALL EQUIPMENT REQUIRING SAME.
- PROVIDE FOR SAFE CONDUCT OF THE WORK. CAREFUL REMOVAL AND DISPOSITION OF MATERIALS AND PROTECTION OF PROPERTY WHICH IS TO REMAIN UNDISTURBED.
- PROVIDE ACCESS DOORS FOR ALL EQUIPMENT, VALVES, CLEANOUTS, ACTUATORS AND CONTROLS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS.
- ALL CURBS, ROOF JACKS, ROOF THIMBLES, SANITARY VENTS, ROOF DRAINS, ETC. SHALL BE COMPATIBLE WITH THE ROOFING SYSTEM TO BE PROVIDED. REFER TO ARCHITECTURAL DIVISION FOR REQUIRED FLASHING DETAILS.
- ALL DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- PROVIDE BALANCING DAMPERS IN EACH GRILLE/DIFFUSER DUCT RUN OUT NOT BEING PROVIDED WITH OBD AT GRILLE (SEE GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE). LOCATE DAMPERS ABOVE ACCESSIBLE CEILINGS.
- UPON COMPLETION OF INSTALLATION OF NEW HVAC SYSTEMS, ALL SYSTEMS SHALL BE BALANCED BY THE MECHANICAL CONTRACTOR.
- TRANSITION FROM DUCT SIZE SHOWN ON PLANS TO EQUIPMENT CONNECTION SIZE AT CONNECTION TO EQUIPMENT.
- WARRANTY: THE ENTIRE MECHANICAL SYSTEM SHALL BE WARRANTED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE SYSTEM BY THE OWNER.
- PROVIDE ALL REQUIRED PERMITS, INSPECTIONS AND COORDINATION WITH GOVERNING AUTHORITIES. INSTALLATION TO CONFORM WITH APPLICABLE PROVISIONS OF:
  - A. APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS
  - B. CURRENT BUILDING AND MECHANICAL CODES
  - C. APPLICABLE PAMPHLETS OF THE NFPA INCLUDING THE NATIONAL ELECTRICAL CODE.
  - D. AMERICANS WITH DISABILITIES ACT (ADA).
- QUALITY CONTROL:
  - A. SUBMIT CUT SHEETS ON ALL OF THE SPECIFIED EQUIPMENT.
  - B. SUBMIT FOUR (4) COPIES OF ALL SUBMITTALS IN ADDITION TO ANY REQUIRED BY THE CONTRACTOR AND THEIR SUPPLIERS. THESE COPIES SHALL BE RETAINED BY THE OWNER, ARCHITECT AND ENGINEER.

**NOTE:**  
NO SUBSTITUTIONS OF VENDORS OR PRODUCT ON EQUIPMENT UNLESS APPROVED BY WOODSPRING SUITES, THE ARCHITECT AND THE OWNER.

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