

MECHANICAL ABBREVIATIONS			
ACCESS PANEL	AP	SUPPLY AIR	SA
BRINE HORSEPOWER	BHP	TEMPERATURE	TEMP
BRITISH THERMAL UNIT	BTU	TEMPERATURE, DRY BULB	DB
BTU PER HOUR	BTUH	TEMPERATURE, ENTERING AIR	EAT
BTU (THOUSANDS)	MBH	TEMPERATURE, ENTERING DRY-BULB	EDB
CUBIC FEET PER MINUTE	CFM	TEMPERATURE, ENTERING WET-BULB	EWB
DAMPER, AUTOMATIC VOLUME	AD	TEMPERATURE, LEAVING AIR	LAT
DAMPER, BACKDRAFT	BD	TEMPERATURE, LEAVING DRY-BULB	LDB
DAMPER, MANUAL VOLUME	VD	TEMPERATURE, LEAVING WET-BULB	LWB
DEGREE	DEG	TEMPERATURE, WET BULB	WB
EXHAUST AIR	EA	THERMOSTAT	T STAT
EXHAUST FAN	EF	UNIT, AIR HANDLING	AHU
EXISTING	(E), EXIST	UNIT, FAN COIL	FCU
FEET PER MINUTE	FM	VARIABLE AIR VOLUME	VAV
FEET PER SECOND	FPS	VARIABLE FREQUENCY DRIVE	VFD
FLAT ON BOTTOM	FOB	WATER COLUMN/GAUGE	W.C./W.G.
FLAT ON TOP	FOT		
HEAT GAIN, LATENT	LHG	ELECTRICAL	
HEAT GAIN, SENSIBLE	SHG	VOLTAGE	V, VOLT
HEAT TRANSFER COEFFICIENT	U	WATTAGE	W, WATT
HORSEPOWER	HP	PHASE	PH
HUMIDITY, RELATIVE	RH		
LEAVING AIR TEMPERATURE	LAT		
MAKEUP AIR UNIT	MUA		
NOISE CRITERIA	N.C.		
NORMALLY CLOSED	N.C.		
NORMALLY OPEN	N.O.		
NOT APPLICABLE	N/A		
NOT TO SCALE	NTS		
OUTSIDE AIR	O.A.		
POINT OF CONNECTION	P.O.C.		
POUNDS PER SQUARE INCH	PSI		
RELIEF AIR	RA		
RETURN AIR	RA		
REVOLUTIONS PER MINUTE	RPM		
STATIC PRESSURE	SP		
STATIC PRESSURE, EXTERNAL	ESP		

SHEET LAYOUT SYMBOLS	
COLUMN REFERENCE GRID AND CENTERLINE DESIGNATION	
DETAIL TITLE	
SECTION DETAIL CALLOUT	
ELEVATION DETAIL CALLOUT	
ENLARGED PLAN CALLOUT	
NORTH ARROW	
CONSTRUCTION CODED NOTE	
REVISION DELTA	
POINT OF CONNECTION	

FAN AND HOOD DIAGRAMS	
CENTRIFUGAL FAN	
AXIAL FLOW PROPELLER	
ROOF MOUNTED EXHAUST	
ROOF MOUNTED SUPPLY FAN	
ROOF MOUNTED SUPPLY HOOD	
CEILING MOUNTED EXHAUST	

EQUIPMENT TAGS	
EQUIPMENT TAG	
AIR DEVICE TAG	

MECHANICAL DUCTWORK DIAGRAMS	
DUCT SIZE (FIRST FIGURE IS SIDE SHOWN)	
DUCT REDUCER, CONCENTRIC	
DUCT REDUCER, ECCENTRIC	
SQUARE TO ROUND DUCT TRANSITION	
DUCT CAP	
ROUND DUCT DOWN	
ROUND DUCT UP	
RECTANGULAR RETURN DUCT DOWN	
RECTANGULAR RETURN DUCT UP	
RECTANGULAR SUPPLY DUCT DOWN	
RECTANGULAR SUPPLY DUCT UP FLEXIBLE	
DUCT TO DIFFUSER DROP	
ELEVATION CHANGE UP OR DOWN	
DUCT LINING (I.E. FIRE, ACUSTICAL, THERMAL)	
ELBOW (45°/90°)	
RECTANGULAR TEE SPLIT	
RADIUSED TEE SPLIT	
SIDEWALL REGISTER TAP	
ROUND TO ROUND SPIN IN TAP	
RECTANGULAR TAP	

AIR DEVICE DIAGRAMS	
CEILING MOUNTED SUPPLY DIFFUSER	
CEILING MOUNTED RETURN GRILLE	
CEILING MOUNTED EXHAUST GRILLE	
SIDE WALL/DUCT MOUNTED SUPPLY DIFFUSER	
SIDE WALL/DUCT MOUNTED RETURN/EXHAUST GRILLE	
LINEAR SLOT DIFFUSER	
CEILING ACCESS PANEL	

DUCTWORK DAMPER DIAGRAMS	
AUTOMATIC DAMPER	
BACKDRAFT DAMPER	
CEILING RADIATION DAMPER	
FIRE/SMOKE DAMPER (FSD) (ACCESS PANEL)	
FIRE/SMOKE DAMPER (FSD)	
VD	

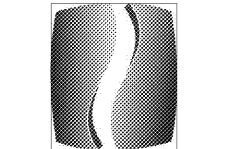
- ### GENERAL MECHANICAL NOTES
- COORDINATE LOCATION OF AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLANS TO ACHIEVE THE BEST COMBINATION OF PERFORMANCE AND AESTHETICS. THE FINAL LOCATIONS OF AIR DEVICES SHALL BE DETERMINED FROM THE ARCHITECTURAL REFLECTED CEILING PLANS. NO CHANGES TO AIR DEVICE LOCATIONS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT AND ENGINEER. SPRAY PAINT INTERIOR OF DUCTWORK BEHIND OR ABOVE AIR DEVICES TO 1/2" INSIDE DUCTWORK OPENING WITH FLAT BLACK PAINT TO OBSCURE DUCT INTERIOR. LOCATE LOUVERED RETURN GRILLE BLADES SUCH THAT VISION INTO DUCT INTERIOR IS RESTRICTED.
 - ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS IN INCHES.
 - BALANCING DAMPERS ARE REQUIRED AT ALL SUPPLY, RETURN, AND EXHAUST BRANCH CONNECTIONS. REMOTE DAMPER OPERATOR FOR ALL DAMPERS LOCATED ABOVE HARD OR INACCESSIBLE CEILING.
 - FLEX DUCT AND ROUND CONNECTIONS TO MAIN DUCT OR BRANCH DUCTS SHALL BE MADE VIA SPIN-IN OR DOVE-TAILED CONICAL TAPS WITH DAMPERS. ALL RECTANGULAR DUCT BRANCHES TAP TO BE MADE WITH 45 DEG SMAGNA TAP FITTING.
 - ROUTE ALL SUPPLY AIR DUCT TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED. MAKE TRANSITIONS FLAT ON TOP.
 - FURNISH AND INSTALL ALL MITERED ELBOWS WITH TURNING VANES. RADIUSED RECTANGULAR ELBOWS SHALL HAVE CENTER LINE RADIUS TO WIDTH RATIO (R/W) OF 1:3 UNLESS OTHERWISE SPECIFIED. ALL ROUND ELBOWS SHALL HAVE A CENTERLINE RADIUS TO DIAMETER RATIO (R/D) OF 1:5 UNLESS SHORT RADIUS ELBOWS ARE CALLED FOR ON THE PLANS IN WHICH CASE THE R/D RATIO SHALL BE 1:0.
 - FLEXIBLE DUCTS SHALL NOT EXCEED 5' IN LENGTH. DUCT SHALL HAVE AN INTERNAL DIMENSION EQUAL TO THE CONNECTING ROUND DUCT DIMENSION.
 - INSULATE EXTERIOR OF ALL SUPPLY AIR DIFFUSERS.
 - FLEXIBLE COLLARS SHALL BE FURNISHED AND INSTALLED AT ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, AIR HANDLERS, ROOFTOP UNITS, ETC.) AND DUCTS OR CASINGS. ALSO FURNISH AND INSTALL FLEXIBLE CONNECTIONS WHERE DUCTS CROSS BUILDING EXPANSION JOINTS.
 - LINE RETURN AIR TRANSFER ROOTS SHALL BE INSTALLED THROUGH WALLS AS REQUIRED TO PROVIDE A CONTINUOUS RETURN AIR PATH TO THE AIR HANDLING UNITS.
 - PROVIDE FIRE DAMPERS, SMOKE DAMPERS, AND COMBINATION FIRE/SMOKE DAMPERS WHERE SHOWN ON THE PLANS AND WHERE DUCTWORK PENETRATES FLOORS, FIRE WALLS AND HVAC CHASES REQUIRING PROTECTION IF NOT OTHERWISE SHOWN. ALL FIRE DAMPERS SHALL HAVE A 1.5 HOUR RATING UNLESS NOTED OTHERWISE. ENDS OF DAMPER SHAFTS SHALL BE CORRODED AND INDICATE OPEN/CLOSED POSITION. PROVIDE FSDS WITH OPTIONAL NO FLOW RATED DUCT SMOKE DETECTOR INSTALLATION. FSDS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS IN ORDER TO MAINTAIN THEIR UL LISTING. PROVIDE FSDS WITH LABEL MINIMUM 1 1/4" X 1 1/4" DUCT ACCESS DOORS WITHIN 12" OF ALL FD, SD, AND FSD LOCATIONS.
 - INSTALL WALL LOUVERS AND CONNECTING DUCTWORK PER MANUFACTURER'S INSTRUCTIONS. PROVIDE BOTTOM OF CONNECTING DUCT OR PLENUM TO OUTSIDE WHERE IT CONNECTS TO THE LOUVER SO THAT ANY MOISTURE CONDENSES AND DRAINS TO OUTSIDE. INSTALL 1/2" WIDE ACCESS DOOR HALF THE HEIGHT OF THE DUCT, MINIMUM 12" HIGH WITHIN 12" OF THE LOUVER UNLESS NOTED OTHERWISE ON THE PLANS.
 - DUCTWORK AND ROOFTOP EQUIPMENT ACCESSORIES SHALL BE SEPARATED FROM STRUCTURE TO WITHSTAND THE SAME WIND LOADING REQUIREMENTS AS THE ROOF CURB AND EQUIPMENT.
 - SUBMIT SAMPLES OF CONTRACTOR-FABRICATED WELDED DUCT SYSTEMS.
 - INSULATE HOT WATER COOL CASING AT EACH VAV TERMINAL UNIT.
 - INSTALL A NEW SET OF AIR FILTERS ON ALL APPLICABLE EQUIPMENT AT COMPLETION OF PROJECT.
 - COORDINATE HOUSEKEEPING PAD HEIGHTS WITH CONDENSATE P-TAP.
 - PROVIDE SECONDARY CONDENSATE DRAIN AND ANTI-FLOAT SWITCH FOR EQUIPMENT WITH COOLING COILS SUSPENDED ABOVE CEILING, WITH FLOAT SWITCH WIRED TO SHUT OFF UNIT.
 - AN NEBB, TABR, OR ARBO CEILING CONTROLS FOR SHALL INCLUDE ALL AIRSIDE AND WATERSIDE SYSTEMS, INCLUDING ROOM PRESSURE CONTROL DIFFERENTIAL PRESSURE CONTROLS. PROVIDE ROOM PRESSURE CONTROLS WITHIN 10%/5% OF THE QUANTITIES AND FLOWRATES SHOWN ON THE DRAWINGS. FURNISH A COMPLETED REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL.
 - PROVIDE AND INSTALL ALL CONTROLS ON THE CEILING GRID OR WALL DIRECTLY UNDER OR ADJACENT TO ALL CONCEALED MECHANICAL EQUIPMENT, EXCEPT VALVES AND CONTROLS DEVICES. THE LABEL SHALL CONTAIN EQUIPMENT TAG NUMBER AND POWER SOURCE (IF APPLICABLE). IDENTIFICATION TAG SIZE AS SYSTEM OR CONTROL ELEMENT IDENTIFICATION NUMBER.

- ### GENERAL CONTROLS NOTES
- ALL NEW THERMOSTATS SHOWN SHALL BE ELECTRONIC, PROGRAMMABLE TYPE CAPABLE OF TIME-OF-DAY SCHEDULING WITH MINIMUM 7 DAY PROGRAMS AND 4 CYCLES PER DAY, AUTOMATIC HEATING/COOLING CHANGEOVER, AND SETPOINT CONTROL. NOISE RFI CAPABILITY WHERE SHOWN ON PLANS.
 - ALL WALL MOUNTED ROOM THERMOSTATS SHALL BE LOCATED 48" A.F.F., CENTERED ADJACENT TO LIGHT SWITCHES WHERE BOTH OCCUR IN THE SAME LOCATION. WHERE LOCATED ON COLUMN, THERMOSTAT SHALL BE CENTERED. TEMPERATURE SENSORS SHALL BE MOUNTED AT 70" A.F.F. SENSORS MOUNTED ON EXTERIOR COLUMNS SHALL BE MOUNTED ON INSULATED BASES. CONFIRM EXACT LOCATIONS OF THERMOSTATS WITH OWNER. THE MECHANICAL CONTRACTOR IS TO COORDINATE WITH THE OWNER AND PROGRAM ALL THERMOSTATS TO OWNER'S SPECIFIC SCHEDULE (IF APPLICABLE).

MEP GENERAL NOTES

REF: MEP00-MEP GENERAL NOTES FOR ADDITIONAL INFORMATION.

DRAWING SCHEDULE	
NUMBER	SHEET TITLE
MEP00	MEP GENERAL NOTES
M0-1	MECHANICAL NOTES
M0-2	MECHANICAL ENERGY COMPLIANCE
M1-1	FIRST FLOOR MECHANICAL PLAN
M1-2	SECOND FLOOR MECHANICAL PLAN
M1-3	THIRD FLOOR MECHANICAL PLAN
M1-4	FOURTH FLOOR MECHANICAL PLAN
M1-5	ROOF MECHANICAL PLAN
M2-1	MECHANICAL SCHEDULES
M2-2	MECHANICAL SCHEDULES
M2-3	MECHANICAL CALCULATIONS
M2-4	MECHANICAL CALCULATIONS



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ISSUE & REVISION RECORD	
1/22/2019	DESIGN DEVELOPMENT PLANS
1/17/2019	90% CONSTRUCTION DOCUMENTS
01/29/2020	PERMIT SET

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NEW CONSTRUCTION
4 STORIES-109 GUESTROOMS
CURRENT CODE: IBC 2018
CONSTRUCTION TYPE: IIA
OCCUPANCY: R-1
**Hilton Garden Inn Ariston,
Mall of Georgia, Buford, GA**



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