



MECHANICAL ABBREVIATIONS AND LEGEND

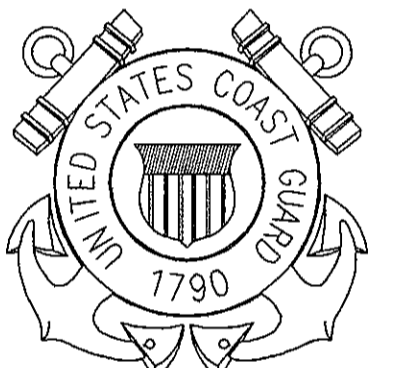
GENERAL NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., AS SHOWN ON/IN OTHER CONTRACT DOCUMENTS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE CONTRACTING OFFICER BEFORE BEING FIELD INSTALLED. DO NOT SCALE DRAWINGS.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, AND OTHER CONCEALED MECHANICAL EQUIPMENT, DEVICES, VALVES, ETC. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- LOCATIONS AND SIZES OF ALL FLOOR AND WALL OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- ALL OPENINGS IN FIRE RESISTANCE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.
- CERTAIN ITEMS SUCH AS RISES AND DROPS IN PIPING, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE TYPES OF ITEMS.
- UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 5'-0" (CENTER LINE) ABOVE FINISHED FLOOR. NOTIFY THE CONTRACTING OFFICER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, VALVING, ETC.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN AND EXHAUST) CONNECTED TO AIR HANDLING UNITS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- EXTERIOR LOUVERS IN THE FACADE OF THE BUILDING SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE STRUCTURAL AND MECHANICAL CONTRACTORS.
- ALL DUCTWORK AND PIPING SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROPERLY CONSTRUCTED OFFSETS IN DUCTWORK AND PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	AD	ACCESS DOOR			DROP IN DUCTWORK		ID	INSIDE DIAMETER		SA	SUPPLY AIR
	AFF	ABOVE FINISHED FLOOR			DUCT - SIDE SHOWN x SIDE NOT SHOWN		IN	INCH, INCHES		SAR	SUPPLY AIR REGISTER
	AHU	AIR HANDLING UNIT					INSUL	INSULATE(D), INSULATION		SD	SMOKE DETECTOR (ON TEMPERATURE CONTROL DRAWINGS)
	APD	AIR PRESSURE DROP			DUCTWORK SUPPLY DOWN		KW	KILOWATTS			
	APPROX	APPROXIMATE			DUCTWORK SUPPLY UP		L	LENGTH		SP	STATIC PRESSURE (INCHES OF WATER)
	ARCH	ARCHITECT					LAT	LEAVING AIR TEMPERATURE		SPECS	SPECIFICATIONS
	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS			DUCTWORK EXHAUST OR RETURN DOWN		LBS	POUNDS		SQ	SQUARE
	ATC	AUTOMATIC TEMPERATURE CONTROL			DUCTWORK EXHAUST OR RETURN UP		LPC	LOW PRESSURE CONDENSATE		STRUC	STRUCTURAL
	BDD	BACK-DRAFT DAMPER			DUCT SILENCER		LPS	LOW PRESSURE STEAM		SW	SWITCH
	BHP	BRAKE HORSEPOWER					MAG	MAGNETIC			
	BLDG	BUILDING		EA	EXHAUST AIR		MAINT	MAINTENANCE			
	BOT	BOTTOM		EAG	EXHAUST AIR GRILLE		MAX	MAXIMUM			
	BTU	BRITISH THERMAL UNIT		EAR	EXHAUST AIR REGISTER		MBH	1,000 BTUH		TEMP	TEMPERATURE
	BTUH	BRITISH THERMAL UNIT PER HOUR		EAT	ENTERING AIR TEMPERATURE		MECH	MECHANICAL		T'STAT	THERMOSTAT (ARROW POINTS TO CONTROLLED DEVICE)
	CAP	CAPACITY		EBB	ELECTRIC BASEBOARD HEATER		MEZZ	MEZZANINE			
	CD	CONDENSATE DRAIN		EF	EXHAUST FAN		MFR, MFG	MANUFACTURER			
	CFM	CUBIC FEET/MINUTE		EDH	ELECTRIC DUCT HEATER		MIN	MINIMUM			
	CLG	CEILING		EDU	ELBOW DOWN		MISC	MISCELLANEOUS			
	COMB	COMBINATION		ELEC	ELECTRIC(AL)		MMS	MANUAL MOTOR STARTER			
	CONC	CONCRETE		ESP	EXTERNAL STATIC PRESSURE		MOD	MOTOR OPERATED DAMPER			
	CONN	CONNECTION		EUH	ELECTRIC UNIT HEATER		NC	NORMALLY CLOSED			
	CONT	CONTINUOUS		EWC	ELECTRIC WATER COOLER		NIC	NOT IN CONTRACT		VD	VOLUME DAMPER
	CONTR	CONTRACTOR		EW	ELECTRIC WATER COOLER		NO	NUMBER; NORMALLY OPEN		VEL	VELOCITY
	CORR	CORRIDOR		EWT	ENTERING WATER TEMPERATURE		NTS	NOT TO SCALE		VENT	VENTILATION OR VENTILATOR
	CU FT	CUBIC FEET		EXH	EXHAUST		OD	OUTSIDE DIAMETER		VERT	VERTICAL
	DIFFUSER	DIFFUSER		EXIST	EXISTING		OED	OPEN END DUCT		VOL	VOLUME
	DB	DRY BULB		F	FAHRENHEIT		PC	PUMPED CONDENSATE		W/	WITH
	DEG	DEGREE(S)		(F)	FUTURE		PH	PHASE		WB	WET BULB
	DIA	DIAMETER		FAI	FRESH AIR INTAKE		PLBG	PLUMBING		WG	WATER GAUGE
	DIRECTION OF FLOW	DIRECTION OF FLOW		FC	FLEXIBLE CONNECTION OR FLEX CONN		PRESS	PRESSURE		W/O	WITHOUT
	DISC	DISCONNECT		FCU	FAN COIL UNIT		PSI	POUNDS PER SQUARE INCH		XFER	TRANSFER
	DOOR LOUVER	DOOR LOUVER		FD	FIRE DAMPER		RA	RETURN AIR			
	DOOR UNDERCUT	DOOR UNDERCUT		FDB	DEGREES FAHRENHEIT DRY BULB		REQ'D	REQUIRED			
	DN	DOWN		FIN FLR	FINISHED FLOOR		REDUCER	REDUCER			
	DWG	DRAWING		FLEX	FLEXIBLE		REMOVE EXISTING TO THIS POINT	REMOVE EXISTING TO THIS POINT			
				FPM	FEET PER MINUTE		RPM	REVOLUTIONS PER MINUTE			
				FT	FOOT OR FEET		RISE IN DUCTWORK	RISE IN DUCTWORK			
				FWB	DEGREES FARENHEIT WET BULB		ROOM	ROOM			
				GA	GAUGE		S	STARTER (EQUIPMENT SERVED)			
				GC	GENERAL CONTRACTOR		SENSOR (ARROW POINTS TO CONTROLLED DEVICE)	SENSOR (ARROW POINTS TO CONTROLLED DEVICE)			
				HOA	HAND-OFF-AUTOMATIC						
				HP	HORSE POWER						
				HTG	HEATING						
				HPC	HIGH PRESSURE CONDENSATE						
				HPS	HIGH PRESSURE STEAM						
				HTR	HEATER						
				HVAC	HEATING VENTILATION/ AIR CONDITIONING						
				HW	HOT WATER						
				HWUH	HOT WATER UNIT HEATER						

CONSULTANTS

U.S. COAST GUARD FACILITY ENGINEERING



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MARK	DATE	DESCRIPTION

A/E PROJECT NO:
CAD FILE NAME:
DESIGNED BY: MICHAEL BAKER JR., INC.
DRAWN BY: MICHAEL BAKER JR., INC.
EDITED BY: D.T. BARNETT
CHECKED BY: D. ANDRESE

SCALE: AS NOTED PLOT SCALE: 1:1

SHEET TITLE
BUILDING 78/80 UPGRADES
CG YARD
BALTIMORE MARYLAND
MECHANICAL
GEN. NOTES, ABBREVIATIONS & LEGEND

REVIEWED BY: D. ANDRESE	REVIEWED BY: P. CHANG	REVIEWED BY: STRUCT. ENG.
PROJECT ENG.	ELECTRICAL ENG.	STRUCT. ENG.
JOHN P. SLAUGHTER, CDR		06/08/2010
APPROVING OFFICER		DATE

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