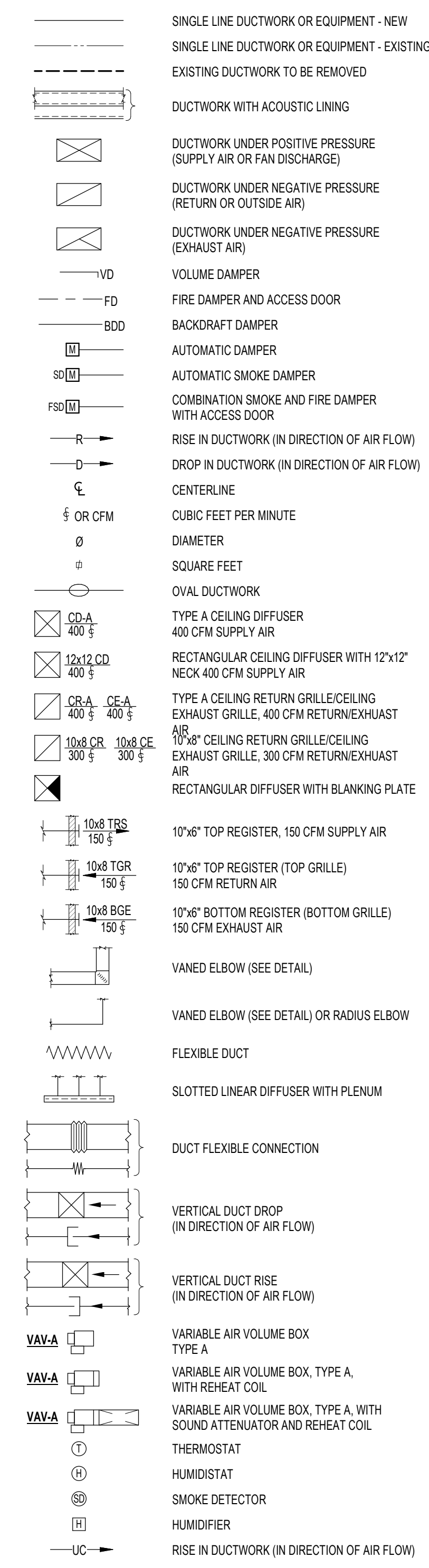
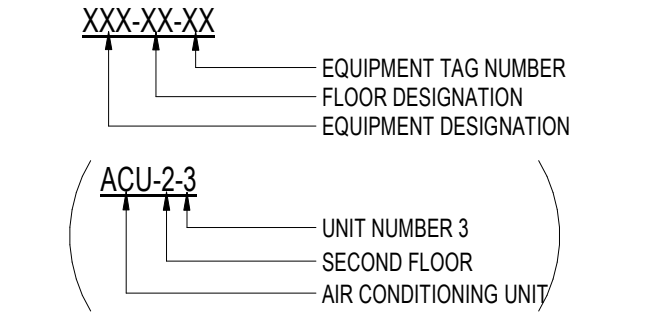


MECHANICAL SYMBOL LIST

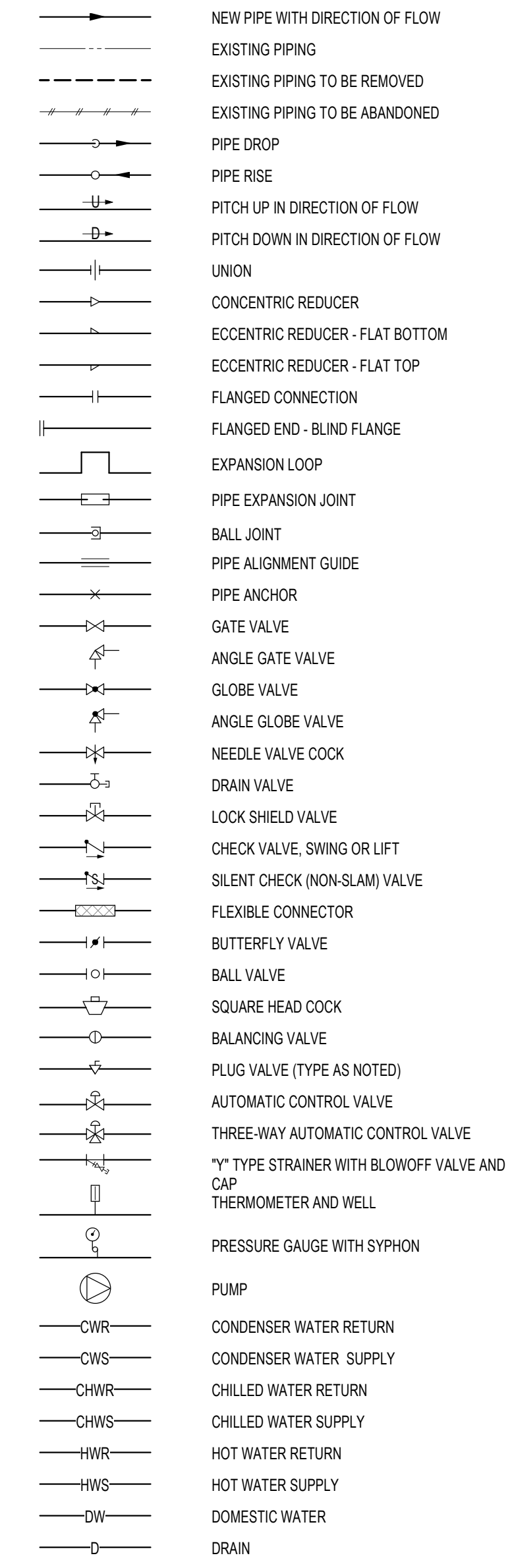
HVAC DUCTWORK



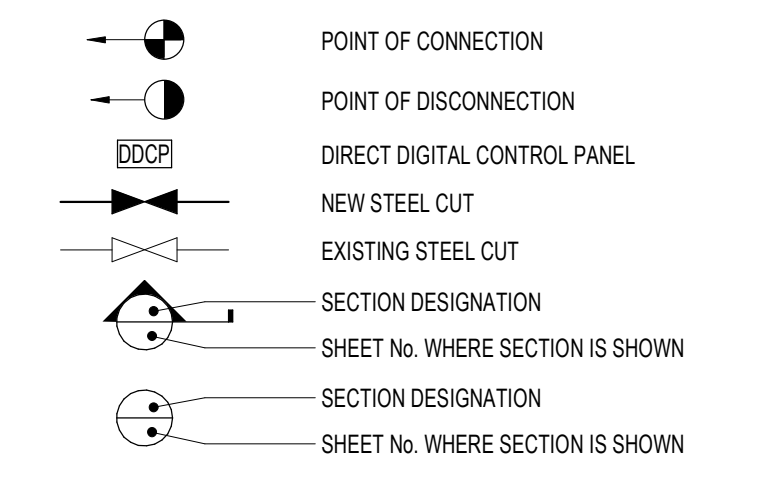
HVAC EQUIPMENT DESIGNATIONS



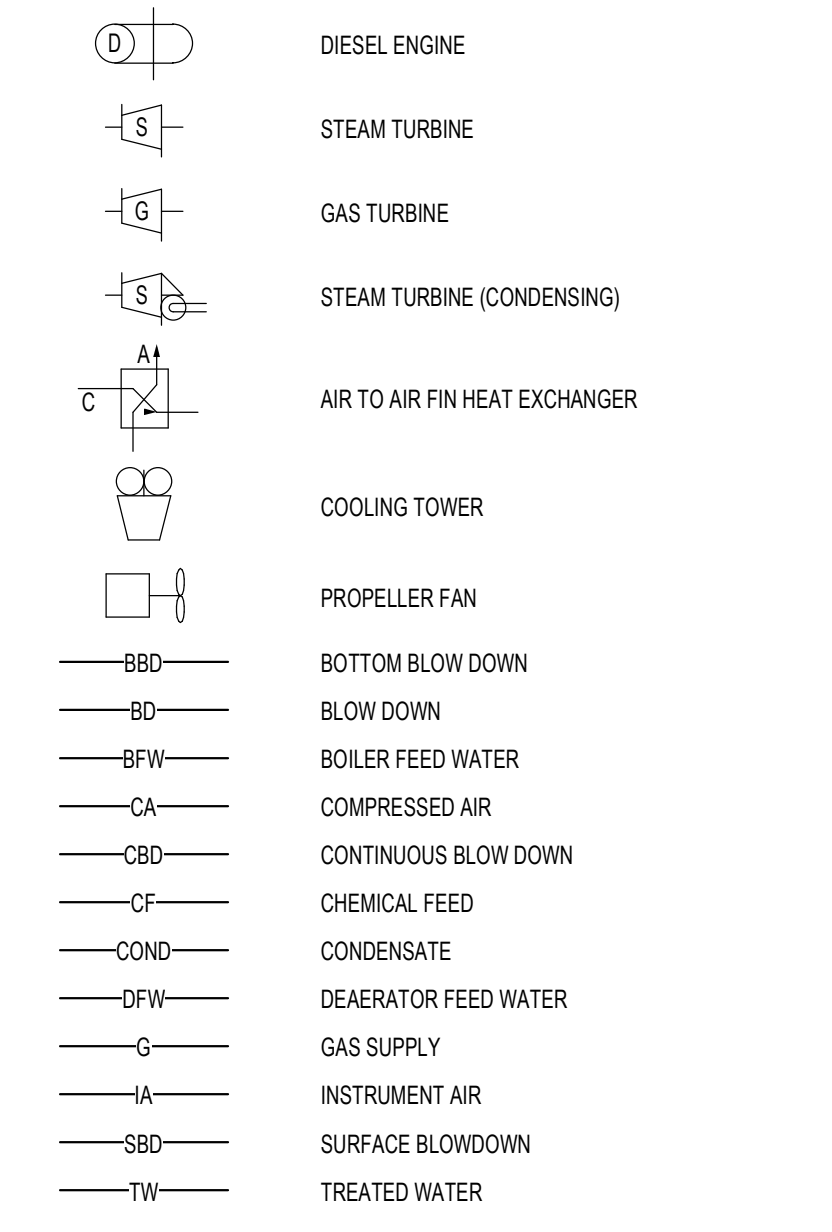
HVAC PIPING



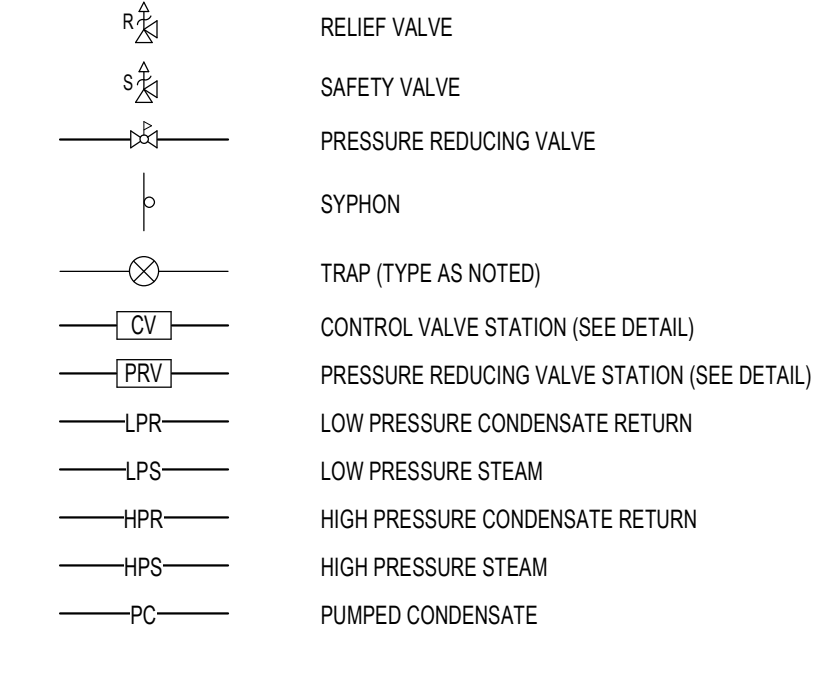
HVAC GENERAL



HVAC CENTRAL PLANT SERVICES



HVAC STEAM SERVICES



MECHANICAL ABBREVIATIONS

A	AMPERES	HD	HEAD
AV	AUTOMATIC AIR VENT	KR	KOUR
AC	AIR CONDITIONING	HRC	HEAT RECOVERY COIL
ACU	AIR COOLED CONDENSING UNIT	HT	HEIGHT
ACS	AUTOMATIC CONTROL SYSTEM	HTWP	HOT TEMPERATURE WATER PUMP
ACU	AIR CONDITIONING UNIT	HV	HEATING AND VENTILATING
AD	ACCESS DOOR	HWP	HOT WATER PUMP
AF	AFTER FILTER	HE	HEAT EXCHANGER
AFWD	AIR FOL. DOUBLE WIDTH	HZ	FREQUENCY
AFW	ABOVE FINISHED FLOOR	IN	INCH OR INCHES
AFMS	AIR FLOW MONITORING STATION	IPS	IRON PIPE SIZE
AFSW	AIR FOL. SINGLE WIDTH	KWS	KILOWATT
AL	AIR HANDLING UNIT	KX	KITCHEN RANGE HOOD EXHAUST
AL	ALUMINUM	L	LENGTH
AMCS	AUTOMATIC MONITORING AND CONTROL SYSTEM	LA	LEAVING AIR TEMPERATURE
AP	ACCESS PANEL	LBS	POUNDS
BAO	BOTTOM ANGULAR DISCHARGE	LOP	LOCAL CONTROL PANEL
BD	BLOW DOWN	LD	LINEAR DIFFUSER
BF	BOOSTER FAN	LDL	LEAVING DRY BULB TEMPERATURE
BFP	BOILER FEED PUMP	LF, LN, FT	LINEAR FEET
BGE	BOTTOM EXHAUST GRILLE	LR	LINEAR RETURN
BGR	BOTTOM RETURN GRILLE	LSA	LOW VELOCITY
BHD	BOTTOM HORIZONTAL DISCHARGE	LV	LOCKED ROTOR AMPS
BHP	BRASS HOSEPOWER	LV	LOW VELOCITY
BIDW	BACKWARD INCLINE DOUBLE WIDTH	LWB	LEAVING WET BULB TEMPERATURE
BISW	BACKWARD INCLINE SINGLE WIDTH	LWT	LEAVING WATER TEMPERATURE
BMS	BUILDING MANAGEMENT SYSTEM	MAV	MANUAL AIR VENT
BRS	BOTTOM SUPPLY REGISTER	MAX	MAXIMUM
BT	BOTTOM THROAT	MB	MINOR BOX
BTU	BRITISH THERMAL UNIT	MBH	THOUSAND BTU PER HOUR
BTUH	BTU PER HOUR	MCC	MOTOR CONTROL CENTER
C	CONVERTOR	MER	MECHANICAL EQUIPMENT ROOM
CAC	CONTROL AIR COMPRESSOR	MHP	MOTOR HORSEPOWER
CC	COOLING COIL	MIN	MINIMUM
CCP	CENTRAL CONTROL PANEL	MM	MILLIMETER
CCW	COUNTER CLOCKWISE	MO	MOTOR
CD	CEILING DIFFUSER	MOV	MOTOR OPERATED VALVE
CHC	CAP FOR FUTURE CONNECTION	MX	MECHANICAL ROOM EXHAUST
CFM	CUBIC FEET PER MINUTE	N	NORMALLY OPEN
CFP	CHEMICAL FEED PUMP	NC	NORMALLY CLOSED
CG	CEILING GRILLE	NC	NOT IN CONTRACT
CH	CHILLER	NL	NUMBER
CHWP	CHILLED WATER PUMP	NPHS	NET POSITIVE SUCTION HEAD
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN-OUT DOOR	OA	OUTSIDE AIR
COMP	COMPRESSOR	OC	OUTSIDE AIR INTAKE
COND	CONDENSATE	OD	OUTSIDE DIAMETER
COV	CHAIR OPERATED VALVE	OED	OPEN END DUCT
CP	CONDENSATE PUMP	OV	OUTLET VELOCITY
CRA	CONTROL POINT ADJUSTMENT	P	PUMP
CRU	CONDENSATE RAMP UNIT	PCC	PRE-COOLING COIL
CR	CEILING REGISTER	PD	PRESSURE DROP
CT	COOLING TOWER	PF	PRE-FILTER
CUTT	CUBIC FEET	PHC	PREHEAT COIL
CUN	CUBIC INCHES	PRV	PRESSURE REDUCING VALVE
CUH	CABINET UNIT HEATER	PSI	POUNDS PER SQUARE INCH
CV	CONSTANT VOLUME	PSIA	PSI ABSOLUTE
CW	CLOCKWISE	PSIG	PSI GAUGE
CWP	CONDENSER WATER PUMP	(RE)	RELOCATED EXISTING
CHWS	CHILLED WATER SUPPLY	(RR)	EXISTING TO REMOVED AND RETURN TO OWNER
HWS	HOT WATER RETURN	R	RISE
HWS	HOT WATER SUPPLY	RA	RETURN AIR
DW	DOMESTIC WATER	RAI	RETURN AIR INTAKE
D	DROP	RCC	RECOILING COIL
DB	DRY BULB	REFR	REFRIGERANT
DBD	DOWN BLAST DISCHARGE	REFR-FAN	REFRIGERANT FAN
DF	DUCT FURNACE UNIT	RH	RELATIVE HUMIDITY
DFWP	DEAERATOR FEED WATER PUMP	RHC	REHEAT COIL
DS	DIESEL GENERATOR	RHWP	REHEAT WATER PUMP
DHW	DOMESTIC HOTTER WATER	RLA	RUNNING LOAD AMPS
DMR	DAMPER	RM	ROOM
DN	DOWN	ROT	ROTATION
DOP	DIESEL OIL PUMP	RP	REVOLUTIONS PER MINUTE
DWG	DRAWING	SA	SUPPLY AIR
DN	DIRECT EXPANSION	SAU	SOUND ATTENUATION UNIT
Ø	DIAMETER	SOHPW	SECONDARY CHILLED WATER PUMP
(E)	EXISTING TO REMAIN	SD	SMOKE DETECTOR
(ER)	EXISTING TO BE REMOVED	SF	SUPPLY FAN
(ERR)	EXISTING TO BE REMOVED & RELOCATED	SHWP	SECONDARY HOT WATER PUMP
EAT	ENTERING AIR TEMPERATURE	SJD	STRIPLINE DIFFUSER
EDB	ENTERING DRY BULB TEMPERATURE	SK, CT	SMOKE CONTROL OPERATION
EDH	ELECTRIC DUCT HEATER	SP	STATIC PRESSURE
EDR	EQUIVALENT DIRECT RADIATION	SPEC	SPECIFICATION
EF	EXHAUST FAN	SQFT	SQUARE FEET
EL	ELEVATION	SS	STAINLESS STEEL
ELEC	ELECTRIC	SK	SMOKE EXHAUST
ELEV	ELEVATOR	T	THROAT
EQ	EQUAL	TAD	TOP ANGULAR DISCHARGE
ET	EXPANSION TANK	TDH	TOTAL DYNAMIC HEAD
EUH	ELECTRIC UNIT HEATER	TEMP	TEMPERATURE
EWB	ENTERING WET BULB	TF	TERMINAL FILTER
EWI	ENTERING WET TEMPERATURE	TG	TOP GRILLE
EXH	EXHAUST	TGE	TOP EXHAUST GRILLE
EXST	EXISTING	TGR	TOP RETURN GRILLE
EXP	EXPANSION	THD	TOP HORIZONTAL DISCHARGE
F	FILTER	TR	TOP REGISTER
FAT	FLOAT AND THERMOSTATIC	TRD	TRANSFER DUCT
FA	FREE AREA (SQ. FT.)	TRF	TRANSFER FAN
FC	FLEXIBLE CONNECTION	TRG	TRANSFER GRILLE
FCOW	FORWARD CURVED DOUBLE WIDTH	TRS	TOP SUPPLY REGISTER
FCSW	FORWARD CURVED SINGLE WIDTH	TS	TOP SPEED
FCU	FAN COIL UNIT	TT	TOP THROAT
FD	FIRE DAMPER	TV	TURNING VANES
FF	FINAL FILTER	TK	TOILET EXHAUST
FG	FINISHED GRADE	TYP	TYPICAL
FINFL	FINISHED FLOOR	USD	UPBLAST DISCHARGE
FLA	FULL LOAD AMPERES	UH	UNIT HEATER
FOP	FUEL OIL PUMP	UON	UNLESS OTHERWISE NOTED
FOT	FUEL OIL TANK	V	VOLTS
FR	FINS PER INCH	VA	VENTILATION AIR
FRM	FEET PER MINUTE	VAC	VACUUM
FRS	FEET PER SECOND	VAV	VARIABLE AIR VOLUME UNIT
FR	FLOOR REGISTER	VF	VENTILATION FAN
FT	FEET	VFD	VARIABLE FREQUENCY DRIVE
FTR	FINISHED TUBE RADIATION	VV	VARIABLE INLET VANES
FV	FACE VELOCITY	VP	VACUUM PUMP
FX	FUME HOOD EXHAUST	W	WIDTH
°	DEGREE FAHRENHEIT	WI	WITH
G	GAUGE	WO	WITHOUT
GAL	GALLON	WB	WET BULB
GPH	GALLONS PER HOUR	WC	WATER COLUMN
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
GK	GENERAL EXHAUST	WMS	WIRE MESH SCREEN
H	HUMIDIFIER	WP	WORKING PRESSURE
HALX	HALON EXHAUST	WSP	WORKING STEAM PRESSURE
HC	HEATING COIL		

MECHANICAL DEMOLITION NOTES

- ALL PIPING IN WALLS AND FLOORS NOT TO BE REUSED WILL BE PLUGGED OR CARPED AND CUTTING AND PATCHING WILL BE PERFORMED TO RESTORE SURFACE TO ORIGINAL CONDITION BY THIS CONTRACTOR.
- AFTER REMOVING PIPE THROUGH THE FLOOR SLABS, PACK OPENING WITH APPROVED FIRE-RATED PACKING.
- THE CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS ASSOCIATED WITH REMOVALS AND RELOCATIONS OF HVAC WORK AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS WITH ALLOWANCES FOR EXPECTED OR UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO GROSSLY ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED, EXCEPT IN CERTAIN CASES CONSIDERED JUSTIFIABLE BY THE OWNER/ENGINEER.
- THE CONTRACTOR SHALL PERFORM DEMOLITION AND REMOVAL WORK WITH MINIMUM INTERFERENCE WITH FUNCTIONING HVAC SYSTEMS. ALL AFFECTED SYSTEMS SHALL BE RECONNECTED AND RESTORED.
- DEMOLITION AND REMOVAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL PATCH, REPAIR OR OTHERWISE RESTORE ANY DAMAGED INTERIOR OR EXTERIOR BUILDING SURFACE TO ITS ORIGINAL CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL DUCT & PIPING SUPPORTS, ETC. FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS DISRUPTS EXISTING PIPING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL AND PROVIDE BYPASS CONNECTIONS NECESSARY.
- ALL PIPING WHICH BECOMES EXPOSED DURING THE ALTERATION WORK SHALL BE REMOVED AND REROUTED CONCEALED BEHIND FINISHED SURFACES.
- PORTIONS OF PIPING & DUCTWORK TO BE REMOVED OR ABANDONED AS A RESULT OF DEMOLITION WORK BUT WHICH ARE REQUIRED TO REMAIN ACTIVE, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AT THE APPROPRIATE TIME OF THE PROJECT DEMOLITION AND PHASING SCHEDULE SO THAT REMOVAL OR RELOCATION OF AFFECTED UTILITIES MAY BE CARRIED OUT IN COORDINATION WITH THE PROJECT REQUIREMENTS.
- ALL EXISTING MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, SHALL REMAIN THE PROPERTY OF THE OWNER OR SHALL BE DISPOSED OF BY THE HVAC CONTRACTOR, AS DIRECTED BY THE OWNER.
- ARRANGE TO WORK CONTINUOUSLY, INCLUDING OVER TIME, IF REQUIRED, TO ASSURE THAT SYSTEMS WILL BE SHUT DOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO THE EXISTING SYSTEMS.
- THE SHUTDOWN OF EXISTING BUILDING HVAC SERVICES SHALL BE COORDINATED WITH THE OWNER. MAKE ARRANGEMENTS AT LEAST 5 BUSINESS DAYS PRIOR TO A SHUTDOWN.
- CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL REQUIREMENTS REGARDING DISPOSAL OF REFRIGERANTS.

MECHANICAL GENERAL NOTES

- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL HVAC/MECHANICAL DRAWINGS.
- ALL WORK IS NEW UNLESS OTHERWISE NOTED.
- DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD. RELOCATE EXISTING WORK THAT INTERFERES WITH WORK OF THIS CONTRACT.
- COORDINATE THIS WORK WITH THAT OF OTHER TRADES.
- DIMENSIONS SHOWN ON PLAN ARE HORIZONTAL. DIMENSIONS SHOWN IN ELEVATION ARE VERTICAL EXCEPT IN WAY OF STRUCTURAL STEEL. DIMENSIONS ARE MEASURED PERPENDICULAR TO FLANGE.
- NEITHER ACCURACY NOR COMPLETION OF SERVICES AND UTILITY LOCATIONS SHOWN ON DRAWINGS IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING SERVICES AND UTILITIES IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
- MANUFACTURERS MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- PRODUCT INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.
- PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
- PROVIDE HANGERS, INSERTS, ANCHORS, SUPPLEMENTAL STEEL & SUPPORTS AS REQUIRED TO SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM STRUCTURE.
- SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERING WITH EXISTING OPERATIONS IN THE FACILITY.
- COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. MECHANICAL CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
- RUN DUCTS AND PIPING CONCEALED, UNLESS OTHERWISE SPECIFIED AND CLEAR OF CEILING INSERTS.
- INSTALL THERMOSTATS 4'-6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY ARCHITECT.
- STRUCTURAL WELDING SHALL BE CONTINUOUS 1/4" FILLET UNLESS REQUIRED OTHERWISE.
- AIR SYSTEMS REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
- INTERNAL AIRFLOW DIMENSIONS ARE SHOWN FOR DUCTS. INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN FREE FLOW AREA INDICATED.
- USE FLAT TRANSVERSE SEAM FOR DUCTWORK WHERE SPACE AVAILABLE DICTATES.
- DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTERS AND GRILLE SIZES ARE NOMINAL.
- PROVIDE VOLUME DAMPERS OR OTHER APPROVED BALANCING DEVICES AT DUCT BRANCHES AND RUN OUTS, AND AT REGISTER GRILLE AND DIFFUSER NECKS IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHETHER SHOWN OR NOT.
- PROVIDE 3" CLEARANCE IN FRONT OF ALL ELECTRIC CONTROL PANELS PER N.E.C. AND MFC REQUIREMENTS.
- PROVIDE DUCT TRANSITIONS FROM VAV BOX INLET/OUTLET DUCT WORK AT SIZES INDICATED TO MAINTAIN FREE FLOW AREA CONNECTIONS.
- VAV DUCT INLET SIZE SHALL BE AS SCHEDULED OR AS INDICATED ON THE FLOOR PLANS. PROVIDE TRANSITION FROM DUCT SIZE INDICATED ON THE FLOOR PLANS TO SCHEDULED SIZE MINIMUM 2'-0" FROM VAV BOX INLETS.
- PIPING SYSTEMS
- PITCH PIPING 1" IN 20' IN DIRECTION OF FLOW.
- PROVIDE TRAPS IN CONDENSATE LINES THAT EXTEND OVER 2'.

MECHANICAL DRAWING LIST

DRAWING NO.	DRAWING TITLE
M00-01	MECHANICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
M00-11	MECHANICAL SCHEDULES
M00-12	MECHANICAL SCHEDULES
M00-21	MECHANICAL DETAILS
M00-22	MECHANICAL DETAILS
M00-31	MECHANICAL FLOW DIAGRAMS
M00-32	MECHANICAL FLOW DIAGRAMS
M00-33	MECHANICAL FLOW DIAGRAMS
M04-61	MECHANICAL FIFTH FLOOR DUCTWORK DEMOLITION PLAN - SECTION 1
M04-62	MECHANICAL FIFTH FLOOR DUCTWORK DEMOLITION PLAN - SECTION 2
M04-63	MECHANICAL FIFTH FLOOR DUCTWORK DEMOLITION PLAN - SECTION 2
M04-64	MECHANICAL FIFTH FLOOR DUCTWORK DEMOLITION PLAN - SECTION 2
M04-65	MECHANICAL FIFTH FLOOR DUCTWORK DEMOLITION PLAN - SECTION 1
M05-61	MECHANICAL FIFTH FLOOR PIPING DEMOLITION PLAN - SECTION 1
M05-62	MECHANICAL FIFTH FLOOR PIPING DEMOLITION PLAN - SECTION 2
M11-61	MECHANICAL FIFTH FLOOR DUCTWORK PLAN - SECTION 1
M11-62	MECHANICAL FIFTH FLOOR DUCTWORK PLAN - SECTION 2
M11-63	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 1
M11-64	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-65	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-66	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-67	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-68	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-69	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-70	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-71	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
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M11-90	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
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M11-96	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-97	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-98	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M11-99	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-01	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-02	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-03	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-04	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-05	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-06	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-07	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-08	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-09	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-10	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-11	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-12	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-13	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-14	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-15	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-16	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-17	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-18	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-19	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-20	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-21	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-22	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2
M12-23	MECHANICAL SIXTH FLOOR DUCTWORK PLAN - SECTION 2