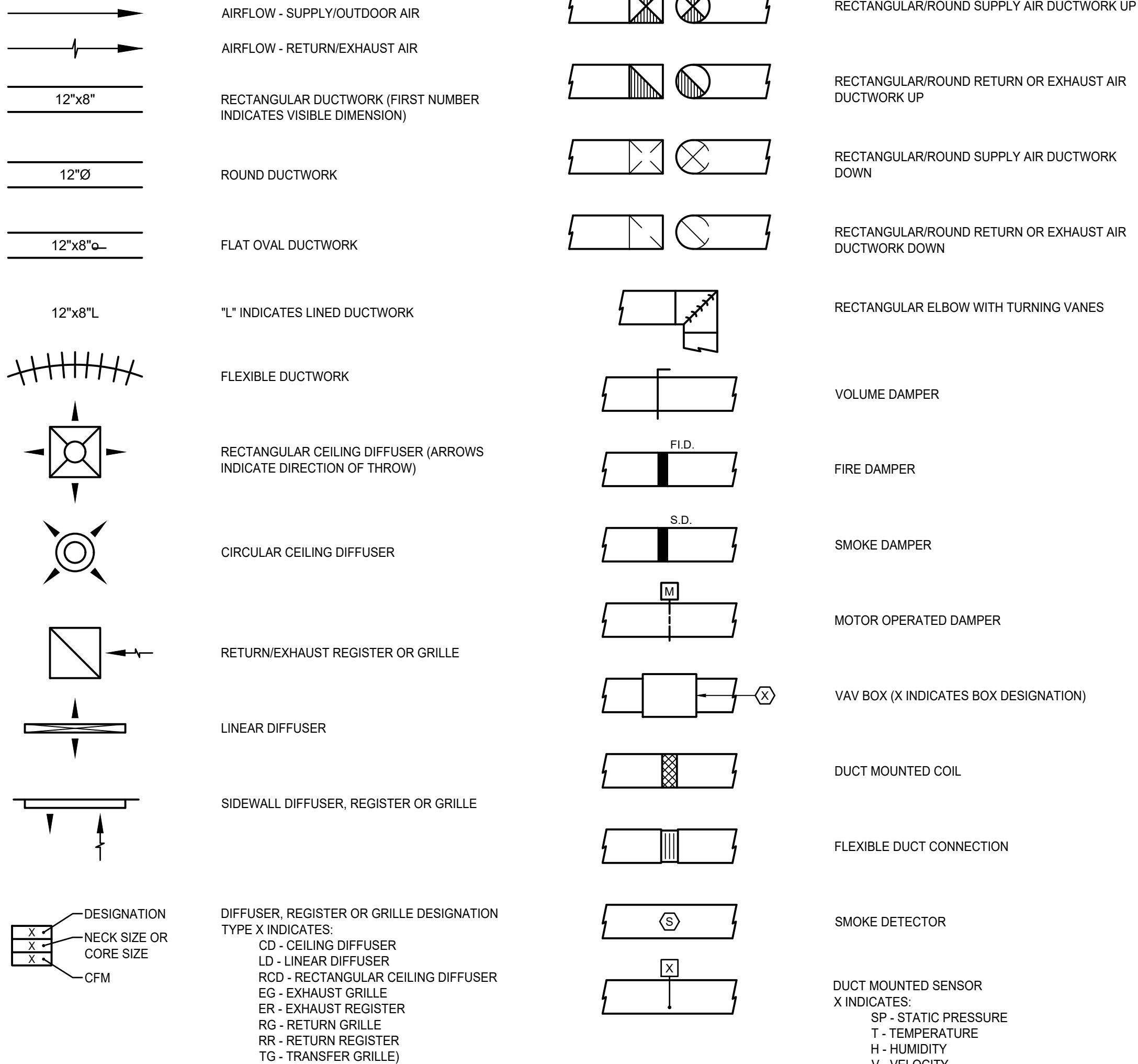


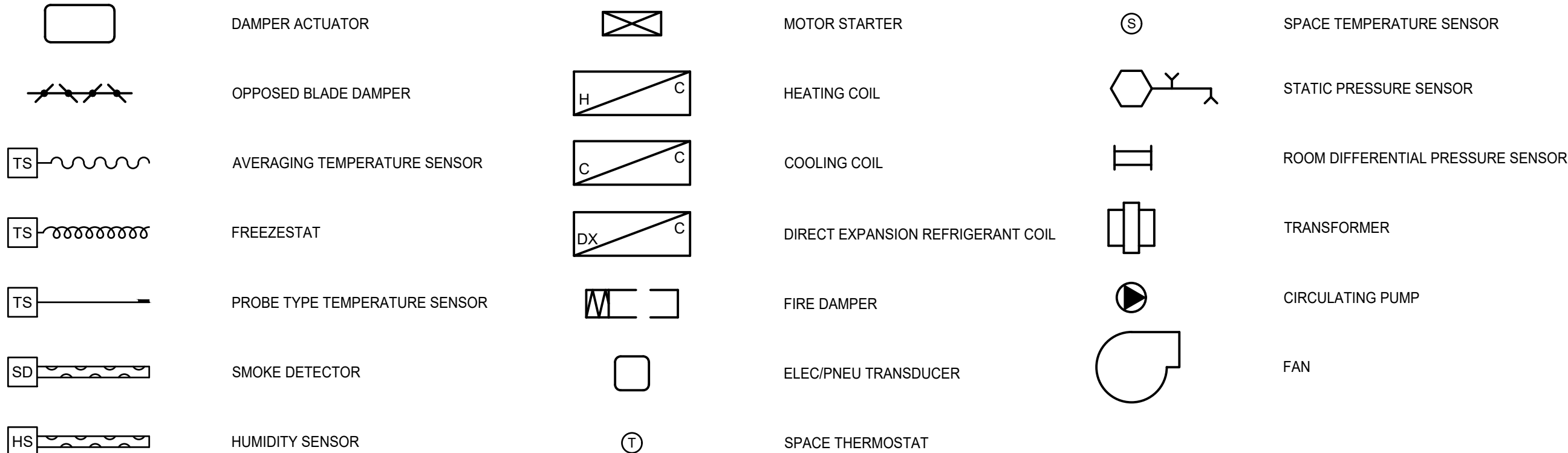
HVAC ABBREVIATIONS

AV	AUTOMATIC AIR VENT	GTV	GATE VALVE
AC	AIR COMPRESSOR	GVTR	GAS VENT THROUGH ROOF
ACCU	AIR COOLED CONDENSING UNIT		
ACS DR	ACCESS DOOR	H	HUMIDIFIER
ACS PNL	ACCESS PANEL	HC	HEATING COIL
ACV	AUTOMATIC CONTROL VALVE	HEX	HEAT EXCHANGER
AF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
AFG	ABOVE FINISHED GRADE	HRTU	HEAT RECOVERY UNIT
AFS	AIR FLOW STATION	HSTAT	HUMIDISTAT
AHU	AIR HANDLING UNIT	HV	HEATING AND VENTILATING UNIT
ALUM	ALUMINUM	HWB	HOT WATER BOILER
AS	AIR SEPARATOR	HWCP	HOT WATER CIRCULATING PUMP
ASC	ABOVE SUSPENDED CEILING		
AVG	AVERAGE	LAT	LEAVING AIR TEMPERATURE
		LRI	LOUVERED ROOF INTAKE
BAV	BALANCING VALVE	LRV	LOUVERED ROOF VENT
BC	BOILER CIRCULATOR	LWT	LEAVING WATER TEMPERATURE
BB-E	BASEBOARD - ELECTRIC		
BFP	BACKFLOW PREVENTER	MAU	MAKE-UP AIR UNIT
BFV	BUTTERFLY VALVE	MAV	MANUAL AIR VENT
BFWP	BOILER FEED WATER PUMP	MC	MECHANICAL CONTRACTOR
BHP	BRAKE HORSEPOWER		
BV	BALL VALVE	NC	NORMALLY CLOSED
		NIC	NOT IN CONTRACT
CA	COMPRESSED AIR	NO	NORMALLY OPEN
CA	COMBUSTION AIR	NTS	NOT TO SCALE
CEB	CONCRETE EQUIPMENT BASE		
CFM	CUBIC FEET PER MINUTE	O	OPEN
CHKV	CHECK VALVE	OA	OUTSIDE AIR
CHWP	CHILLED WATER CIRCULATING PUMP	OC	ON CENTER
CIR	CAST IRON RADIATOR	OED	OPEN ENDED DUCT
COM	COMMON		
CRP	CONDENSING RETURN PUMP	PC	PLUMBING CONTRACTOR
CT	CHILLING TOWER	PLV	PLUG VALVE
CUH	CABINET UNIT HEATER	PRV	PRESSURE REDUCING VALVE
CUV	CLASSROOM UNIT VENTILATOR	PTAC	PACKAGE TERMINAL AIR CONDITIONER
CV	CONTROL VALVE		
		RA	RETURN AIR
DB	DRY BULB	RAF	RETURN AIR FAN
DCI	DUCT COVERING INSULATION	RH	RELATIVE HUMIDITY
DF	DESTRATIFICATION FAN	RHC	REHEAT COIL
DLI	DUCT LINING INSULATION	RLL	REFRIGERANT LIQUID LINE
DSS	DUCTLESS SPLIT SYSTEM AIR CONDITIONER	RSL	REFRIGERANT SUCTION LINE
DX	DIRECT EXPANSION	RTU	ROOF TOP UNIT
		RV	ROOF VENT
EA	EXHAUST AIR	SA	SUPPLY AIR
EAT	ENTERING AIR TEMPERATURE	SD	SMOKE DAMPER
EC	ELECTRICAL CONTRACTOR	SF	SUPPLY FAN
EDR	EQUIVALENT DIRECT RADIATION	SP	STATIC PRESSURE
ET	EXPANSION TANK	STN	STRAINER
EWT	ENTERING WATER TEMPERATURE	SUH	SUSPENDED UNIT HEATER
F	DEGREES FAHRENHEIT		
FBO	FURNISHED BY OTHERS	TFA	TO FLOOR ABOVE
FCU	FAN COIL UNIT	TFB	TO FLOOR BELOW
FFA	FROM FLOOR ABOVE		
FFB	FROM FLOOR BELOW	UH	UNIT HEATER
FID	FIRE DAMPER	UHT	UP THROUGH ROOF
FSD	FIRE/SMOKE DAMPER	UV	UNIT VENTILATOR
FTR	FINNED TUBE RADIATOR		
FURN	FURNACE	VAV	VARIABLE AIR VOLUME
		VD	VOLUME DAMPER
		VIB ISO	VIBRATION ISOLATOR
GC	GENERAL CONTRACTOR		
GLV	GLOBE VALVE	WB	WET BULB
GPM	GALLONS PER MINUTE		

HVAC SYMBOLS - DUCTWORK



HVAC SYMBOLS - CONTROLS

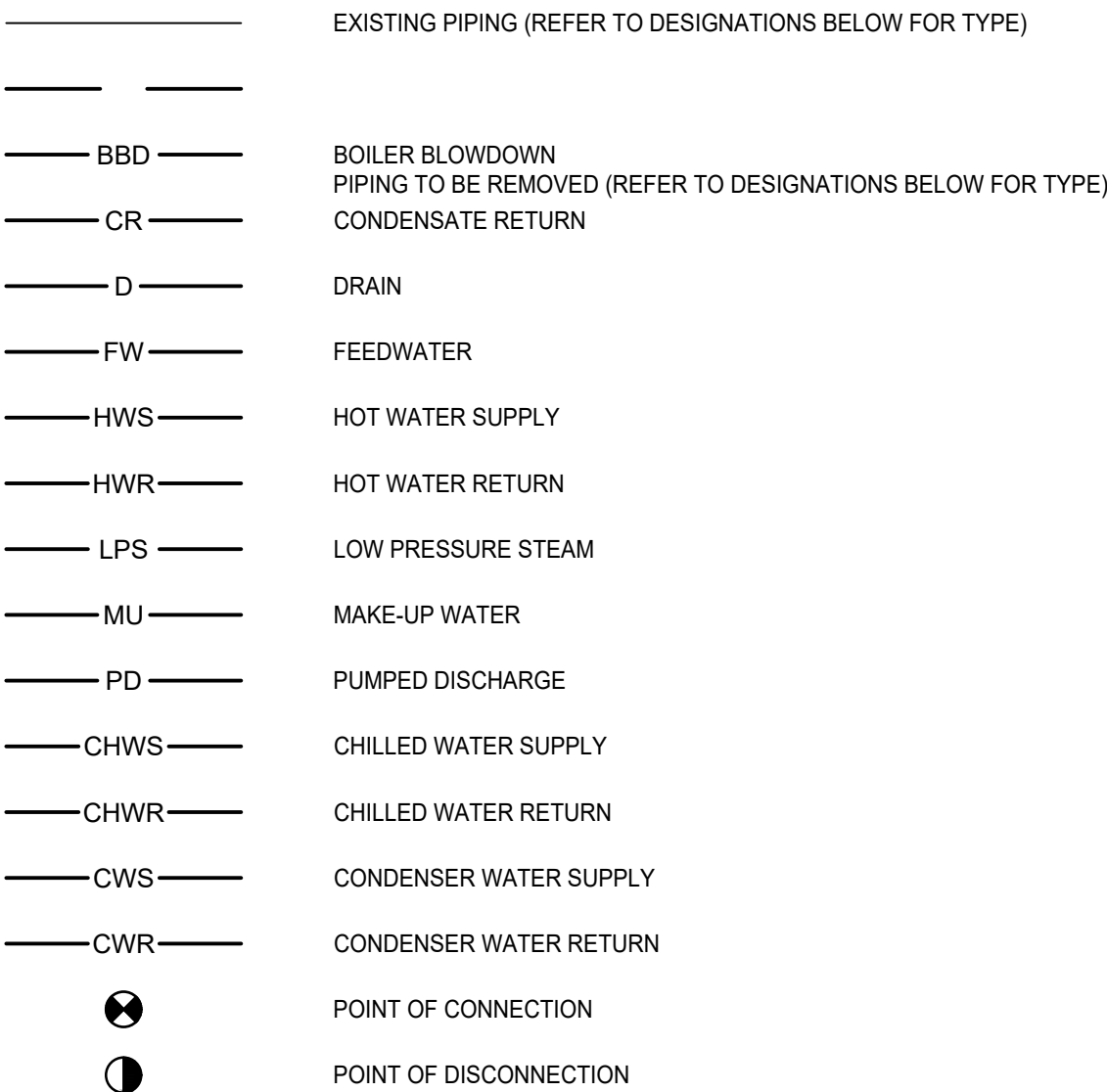


SHOP/COORDINATION DRAWINGS:

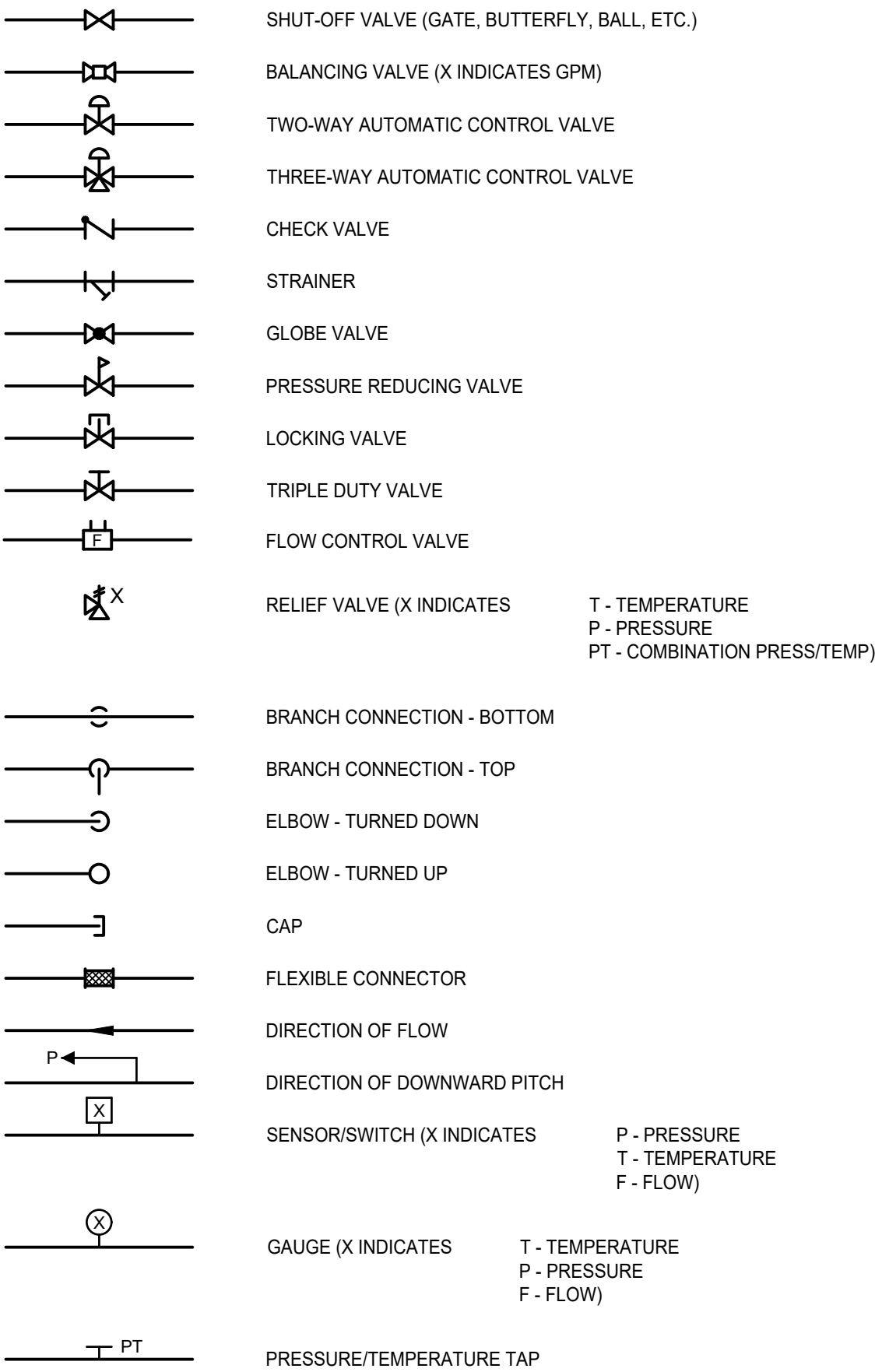
CONTRACTOR SHALL PROVIDE TO THE ENGINEER CAD-GENERATED (AUTOCAD 2013 OR NEWER) COORDINATION DRAWINGS AT $\frac{3}{8}$ " EQUALS 1 FOOT SCALE.

1. CONTRACTOR SHALL BE RESPONSIBLE TO:
 - A. FIELD VERIFY EXISTING CONDITIONS
 - B. PROVIDE LAYOUT OF ALL NEW EQUIPMENT, DUCTWORK (DOUBLE LINED) AND PIPING
 - C. PROVIDE ELEVATIONS OF ALL DUCTWORK (TOP AND BOTTOM).
 - D. PROVIDE DIMENSIONS OF MAIN PIPE RUNS FROM BUILDING GRID LINES OR WALLS.
 - E. PENETRATIONS THROUGH FIRE-RATED AND OTHER PARTITIONS.
 - F. EQUIPMENT INSTALLATION BASED ON EQUIPMENT PURCHASED FOR PROJECT.

HVAC SYMBOLS - PIPING DESIGNATIONS

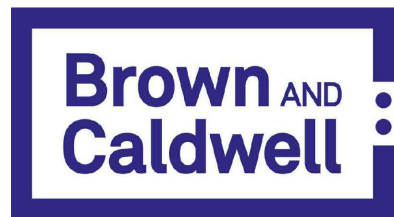


HVAC SYMBOLS - VALVES & SPECIALTIES



GENERAL NOTES

3. THIS LEGEND SHEET IS FOR THE HVAC CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
5. INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. HVAC CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS PANELS AND DOORS WHERE THEY ARE NEEDED TO GAIN ACCESS TO CONCEALED EQUIPMENT.
7. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF HVAC WORK SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
8. PIPES AND/OR DUCTS PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
9. ALL DUCT SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
10. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
11. COMPLY WITH THE 2025 GEORGIA STATE BUILDING CODES, ASHRAE 90.1-2016, AND OTHER APPLICABLE CODES.



BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328



CONSTRUCTION
DOCUMENTS

07/01/2026



NCWSA OFFICE
ADDITION

REVISIONS

[illegible]

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED:RFJ

FILENAME

PROJECT NUMBER

CLIENT PROJECT NUMBER

MECHANICAL
SYMBOLS, NOTES, &
ABBREVIATIONS

DRAWING NUMBER

M001