

ABBREVIATIONS

A			F			Q		
A	ABV	AIR (COMPRESSED)	F	FBO	FAHRENHEIT, FIRE	QTY	QUANTITY	
AC	AC	AIR CONDITIONING	FCO	FCS	FURNISHED BY OTHERS FLOOR CLEAN OUT	RA	RETURN AIR	
ACU	ACU	AIR COOLED CONDENSING UNIT	FCU	FD	FAN COIL UNIT FLOOR DRAIN, FIRE DAMPER	RAD	REFRIGERATED AIR DRYER	
AD	AD	ACCESS DOOR, AREA DRAIN	FDC	FDR	FIRE DEPARTMENT SIAMSE CONNECTION	RAG	RETURN AIR FAN	
ADJ	ADJ	ADJUSTABLE	FDV	FH	FIRE DEPARTMENT VALVE FIRE HYDRANT	RAT	RETURN AIR GRILLE	
AF	AF	AIR FILTER	FHC	FHR	FIRE HOSE CABINET FIRE HOSE RACK	RAT	RETURN AIR TEMPERATURE	
AFC	AFC	ABOVE FINISHED CEILING	FLA	FLR	FULL LOAD AMPS FLEXIBLE	RCP	REFLECTED CEILING PLAN	
AFF	AFF	ABOVE FINISHED FLOOR	FLX	FPTU	FAN POWERED TERMINAL UNIT	RD	ROOF DRAIN	
AHRI	AHRI	AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE	FND	FT	FOOT, FEET	RED	REDUCED	
AHU	AHU	AIR HANDLING UNIT	FUT		FUTURE	REFR	REFRIGERATOR	
AL	AL	ALUMINUM				REG	REGISTER	
AMB	AMB	AMBIENT				RENF	REINFORCING	
AP	AP	ACCESS PANEL				REQD	REQUIRED	
APD	APD	AIR PRESSURE DROP				REV	REVISION, REVISE	
ARCH	ARCH	ARCHITECT, ARCHITECTURAL				RH	RELATIVE HUMIDITY	
AS	AS	AIR SEPARATOR	G	GA	GAS GAUGE	RHC	REFRIGERANT HOT GAS	
ASHRAE	ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS	GAL	GALV	GALLON GALVANIZED	RL	REFRIGERANT LIQUID	
ASME	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	GALV	GC	GENERAL CONTRACTOR	RM	RUNNING LOAD AMPS	
ASTM	ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	GLV	GND	GLOBE VALVE GROUND	RPM	REVOLUTIONS PER MINUTE	
AV	AV	ACID VENT, AIR VENT	GND	GPM	GALLONS PER MINUTE	RS	REFRIGERANT SUCTIION	
AVR	AVR	AVERAGE	GV	GV	GATE VALVE	RTU	ROOFTOP UNIT	
AW	AW	ACID WASTE				RV	RELIEF VALVE	
AWS	AWS	AMERICAN WELDING SOCIETY						
AUX	AUX	AUXILIARY						
B			H			S		
B	BC	BOLTER BELOW COUNTER	HORIZ	HP	HORIZONTAL HORSEPOWER	SA	SUPPLY AIR	
BC	B/C	BACK OF CURB	HSTAT	HT	HUMIDISTAT HEATING	SAF	SUPPLY AIR FAN	
B/C	B/C	BACK OF CURB	HTG	HTR	HEATING HEATER	SAG	SANITARY SEWER	
BFF	BFF	BELOW FINISHED FLOOR	HTR	HW	HOT WATER HEATING WATER PUMP	SAR	SUPPLY AIR REGISTER	
BFV	BFV	BUTTERFLY VALVE	HWP	HWS	HOT WATER RETURN HOT WATER SUPPLY	SC	STEAM CONDENSATE	
BH	BH	BOX HYDRANT	HWR	HX	HEAT EXCHANGER	SCHED	SCHEDULED	
BLDG	BLDG	BUILDING	HZ	HZ	HERTZ	SEC	SECONDARY	
BM	BM	BENCHMARK				SECT	SECTION	
BOF	BOF	BOTTOM OF FOOTING				SENS	SENSIBLE	
BOS	BOS	BOTTOM OF STRUCTURE				SF	SQUARE FEET	
BP	BP	BACKFLOW PREVENTER				SFCS	SPRINKLER FLOOR CONTROL STATION	
BTU	BTU	BRITISH THERMAL UNIT				SH	SHOWER	
BV	BV	BALL VALVE				SHT	SHEET	
BWW	BWW	BACK WATER VALVE				SHM	SIMILAR	
C						SK	SINK	
C	CAB	CELSIUS CABINET	ID	IE	INSIDE DIAMETER INVERT ELEVATION	SKM	SHEETMETAL	
CAB	CB	CATCH BASIN	IE	IN	INCH	SP	STATIC PRESSURE, SUMP PUMP	
CD	CD	CONDENSATE DRAIN LINE	IN	INSUL	INSULATION	SPEC	SPECIFICATION	
CFM	CFM	CUBIC FEET PER MINUTE	INT	INV	INTERNAL, INTERIOR INVERT	SPR	SPRINKLER	
CFS	CFS	CUBIC FEET PER SECOND	IW	IW	INDIRECT WASTE	SQ	SQUARE	
CH	CH	CHILLER	JB	JP	JUNCTION BOX JOCKEY PUMP	SS	SERVICE SINK	
CHR	CHR	CHILLED WATER RETURN				SSCC	SOLID STATE SPEED CONTROL	
CHS	CHS	CHILLED WATER SUPPLY				STD	STANDARD	
CHW	CHW	CHILLED WATER PUMP				STL	STEEL	
CHWP	CHWP	CHILLED WATER PUMP				STR	STRAINER	
CI	CI	CAST IRON	KEC	KO	KITCHEN EQUIPMENT CONTRACTOR KNOCKOUT	SURF	SURFACE	
CIRC	CIRC	CIRCULATING	KO	KVA	KILOVOLT-AMPS	SUSP	SUSPEND	
CL	CL	CENTERLINE	KW	KW	KILOWATT	SV	SANITARY VENT	
CLG	CLG	CEILING				SW	SOFT WATER	
CLR	CLR	CLEAR						
CMU	CMU	CONCRETE MASONRY UNIT						
COL	COL	COLUMN						
COMB	COMB	COMBINATION						
COMP	COMP	COMPRESSOR						
CONC	CONC	CONCRETE, CONCENTRIC						
COND	COND	CONDENSER, CONDENSATE						
CONN	CONN	CONNECTION						
CONT	CONT	CONTINUOUS CONTINUATION						
CTR	CTR	CENTER						
CU	CU	COPPER						
D			M			U		
D	DB	DEPTH, DRAIN, DRYER	MAT	MAX	MIXED AIR TEMPERATURE MAXIMUM	U	URINAL	
DB	DC	DRY BULB DIRECT CURRENT	MBTUH	MC	THOUSAND OF BTU'S MECHANICAL CONTRACTOR	UCD	UNDER CUT DOOR	
DC	DDC	DIRECT DIGITAL CONTROL	MECH	MFR	MECHANICAL MANUFACTURER	UG	UNDERGROUND	
DDC	DDMB	DUAL DUCT MIXING BOX	MFR	MH	MANHOLE	UH	UNIT HEATER	
DESG	DESG	DESIGNATION	MI	MI	MALLEABLE IRON	UL	UNDERWRITERS LABORATORIES, INC	
DTL	DTL	DETAIL	MIN	MP	MINIMUM MEDIUM PRESSURE	UNO	UNLESS NOTED OTHERWISE	
DIA	DIA	DIAMETER	MS	MS	MOP SINK	UNF	UNDER FLOOR	
DIFF	DIFF	DIFUSER	MTD	MU	MOUNTED MAKE-UP	US	UNDERSLAB	
DM	DM	DIMENSION	MU	MVD	MANUAL VOLUME DAMPER			
DISC	DISC	DISCONNECT	MSAH	MSAH	MINI-SPLIT AIR HANDLER	V	VOLT	
DOWN	DOWN	DOWN	MSCU	MSCU	MINI-SPLIT CONDENSING UNIT	VA	VACUUM	
DPR	DPR	DRAIN				VAC	VACUUM-AMPERE	
DW	DW	DISHWASHER				VCM	VACUUM	
DWG	DWG	DRAWING				VAV	VARIABLE AIR VOLUME	
DWH	DWH	DOMESTIC WATER HEATER				VB	VALVE BOX, VACUUM BREAKER	
DWP	DWP	DOMESTIC WATER PUMP				VELOCITY	VOLUME DAMPER	
DX	DX	DIRECT EXPANSION				VERT	VERTICAL	
E						VFD	VARIABLE FREQUENCY DRIVE	
EA	EA	EACH	N.C.	NFPA	NORMALLY CLOSED NATIONAL FIRE PROTECTION ASSOCIATION	VB	VALVE IN BOX	
EAT	EAT	ENTERING AIR TEMPERATURE	NFPA	NC	NOT IN CONTRACT	VOV	VALVE ON VERTICAL	
EC	EC	ELECTRICAL CONTRACTOR	N.O.	NO	NORMALLY OPEN NUMBER	VP	VACUUM PUMP	
ECC	ECC	ECCENTRIC	NTS	NTS	NOT TO SCALE	VPR	VARIABLE AIR VOLUME REHEAT	
EDB	EDB	ENTERING DRY BULB				VTR	VENT THRU ROOF	
EDH	EDH	ELECTRIC DUCT HEATER						
EF	EF	EXHAUST FAN	OA	OAF	OUTSIDE AIR OUTSIDE AIR FAN			
EFF	EFF	EFFICIENCY	OAF	OAHU	OUTSIDE AIR HANDLING UNIT			
EJ	EJ	EXPANSION JOINT	OBD	OBD	OPPOSED BLADE DAMPER			
EL	EL	ELEVATION	OC	OC	ON CENTER			
ELEC	ELEC	ELECTRICAL	OD	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN			
EMERG	EMERG	EMERGENCY	OFCU	OFCU	OUTSIDE AIR FAN COIL UNIT			
ENCL	ENCL	ENCLOSURE	OPG	OPG	OPENING			
ENGR	ENGR	ENGINEER	OS&Y	OS&Y	OPEN STEM AND YOLK			
EQ	EQ	EQUAL						
EQUIP	EQUIP	EQUIPMENT						
EXT	EXT	EXTERNAL						
EXTG	EXTG	EXISTING						
F			P			Y		
F	FBO	FAHRENHEIT, FIRE	PG	PP	PRESSURE GAUGE POLYPROPYLENE	Y	YARD HYDRANT	
FCO	FCS	FURNISHED BY OTHERS FLOOR CLEAN OUT	PPM	PPM	PART PER MILLION	Z	ZONE	
FCU	FD	FAN COIL UNIT FLOOR DRAIN, FIRE DAMPER	PRS	PRS	PRIMARY PRESSURE REDUCING STATION			
FDC	FDR	FIRE DEPARTMENT SIAMSE CONNECTION	PRV	PRV	PRESSURE REDUCING VALVE			
FDV	FH	FIRE DEPARTMENT VALVE FIRE HYDRANT	PSF	PSF	POUNDS PER SQUARE FOOT			
FHC	FHR	FIRE HOSE CABINET FIRE HOSE RACK	PSI	PSI	POUNDS PER SQUARE INCH			
FLA	FLR	FULL LOAD AMPS FLEXIBLE	PSIG	PSIG	POUNDS PER SQUARE INCH GAUGE			
FLX	FPTU	FAN POWERED TERMINAL UNIT	PV	PV	PLUG VALVE			
FND	FT	FOOT, FEET	PVC	PVC	POLYVINYL CHLORIDE			
FUT		FUTURE						
G			Q			Z		
G	GA	GAS GAUGE	QTY	QUANTITY		Z	ZONE	
GAL	GAL	GALLON						
GALV	GALV	GALVANIZED						
GC	GC	GENERAL CONTRACTOR						
GLV	GND	GLOBE VALVE GROUND						
GND	GPM	GALLONS PER MINUTE						
GV	GV	GATE VALVE						
H			R			Z		
HORIZ	HP	HORIZONTAL HORSEPOWER	RA	RAD	RETURN AIR REFRIGERATED AIR DRYER	Z	ZONE	
HSTAT	HT	HUMIDISTAT HEATING	RAG	RAT	RETURN AIR FAN RETURN AIR GRILLE			
HTG	HTR	HEATING HEATER	RAT	RAT	RETURN AIR TEMPERATURE			
HTR	HW	HOT WATER HEATING WATER PUMP	RCP	RD	REFLECTED CEILING PLAN ROOF DRAIN			
HWP	HWS	HOT WATER RETURN HOT WATER SUPPLY	RED	REFR	REDUCED REFRIGERATOR			
HWR	HX	HEAT EXCHANGER	REG	RENF	REGISTER REINFORCING			
HWS	HZ	HERTZ	REQD	REV	REQUIRED REVISION, REVISE			
HX			RH	RHC	RELATIVE HUMIDITY REFRIGERANT HOT GAS			
HZ			RL	RM	REFRIGERANT LIQUID RUNNING LOAD AMPS			
I			RL	RPM	REFRIGERANT LIQUID REVOLUTIONS PER MINUTE			
ID	IE	INSIDE DIAMETER INVERT ELEVATION	RS	RTU	REFRIGERANT SUCTIION ROOFTOP UNIT			
IE	IN	INCH	RV		RELIEF VALVE			
IN	INSUL	INSULATION						
INT	INV	INTERNAL, INTERIOR INVERT						
IW	IW	INDIRECT WASTE						
J								
JB	JP	JUNCTION BOX JOCKEY PUMP						
K								
KEC	KO	KITCHEN EQUIPMENT CONTRACTOR KNOCKOUT						
KO	KVA	KILOVOLT-AMPS						
KW	KW	KILOWATT						
L								
L	LAT	LENGTH LEAVING AIR TEMPERATURE						
LAT	LAV	LAVATORY						
LAV	LF	LINEAR FEET						
LF	LP	LOW PRESSURE						
LP	LRA	LOCKED ROTOR AMPS						
LRA	LVL	LEVEL						
LVL	LWB	LEAVING WET BULB						
LWB	LWCO	LOW WATER CUT OFF						
LWCO	LWT	LEAVING WATER TEMPERATURE						
M								
MAT	MAX	MIXED AIR TEMPERATURE MAXIMUM						
MBTUH	MC	THOUSAND OF BTU'S MECHANICAL CONTRACTOR						
MECH	MFR	MECHANICAL MANUFACTURER						
MFR	MH	MANHOLE						
MH	MI	MALLEABLE IRON						
MI	MIN	MINIMUM						
MIN	MP	MEDIUM PRESSURE						
MP	MS	MOP SINK						
MS	MTD	MOUNTED						
MTD	MU	MAKE-UP						
MU	MVD	MANUAL VOLUME DAMPER						
MVD	MSAH	MINI-SPLIT AIR HANDLER						
MSAH	MSCU	MINI-SPLIT CONDENSING UNIT						
MSCU								
N								
N.C.	NFPA	NORMALLY CLOSED NATIONAL FIRE PROTECTION ASSOCIATION						
NFPA	NC	NOT IN CONTRACT						
NC	N.O.	NORMALLY OPEN						
N.O.	NO	NUMBER						
NO	NTS	NOT TO SCALE						
O								
OA	OAF	OUTSIDE AIR OUTSIDE AIR FAN						
OAF	OAHU	OUTSIDE AIR HANDLING UNIT						
OAHU	OBD	OPPOSED BLADE DAMPER						
OBD	OC	ON CENTER						
OC	OD	OUTSIDE DIAMETER, OVERFLOW DRAIN						
OD	OFCU	OUTSIDE AIR FAN COIL UNIT						
OFCU	OPG	OPENING						
OPG	OS&Y	OPEN STEM AND YOLK						
OS&Y								
P								
PG	PP	PRESSURE GAUGE POLYPROPYLENE						
PP	PPM	PART PER MILLION						
PPM	PRS	PRIMARY PRESSURE REDUCING STATION						
PRS	PRV	PRESSURE REDUCING VALVE						
PRV	PSF	POUNDS PER SQUARE FOOT						
PSF	PSI	POUNDS PER SQUARE INCH						
PSI	PSIG	POUNDS PER SQUARE INCH GAUGE						
PSIG	PV	PLUG VALVE						
PV	PVC	POLYVINYL CHLORIDE						
PVC								
Q								
QTY	QUANTITY							
R								
RA	RAD	RETURN AIR REFRIGERATED AIR DRYER						
RAD	RAG	RETURN AIR FAN RETURN AIR GRILLE						
RAG	RAT	RETURN AIR TEMPERATURE						
RAT	RCP	REFLECTED CEILING PLAN ROOF DRAIN						