

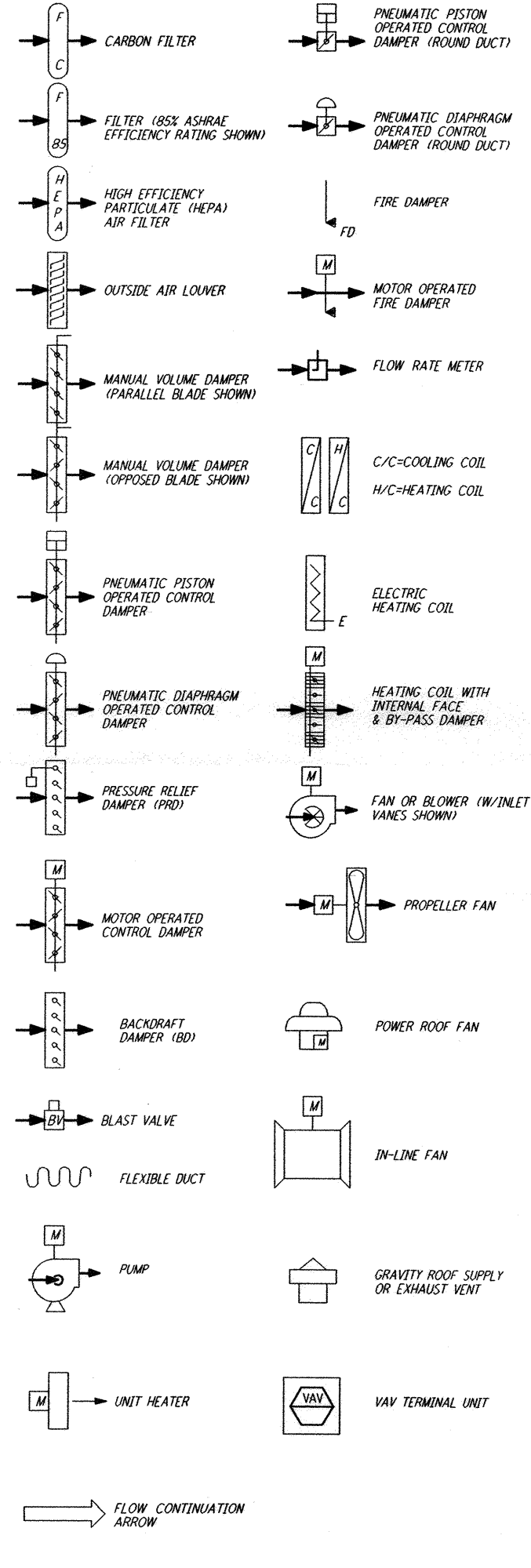
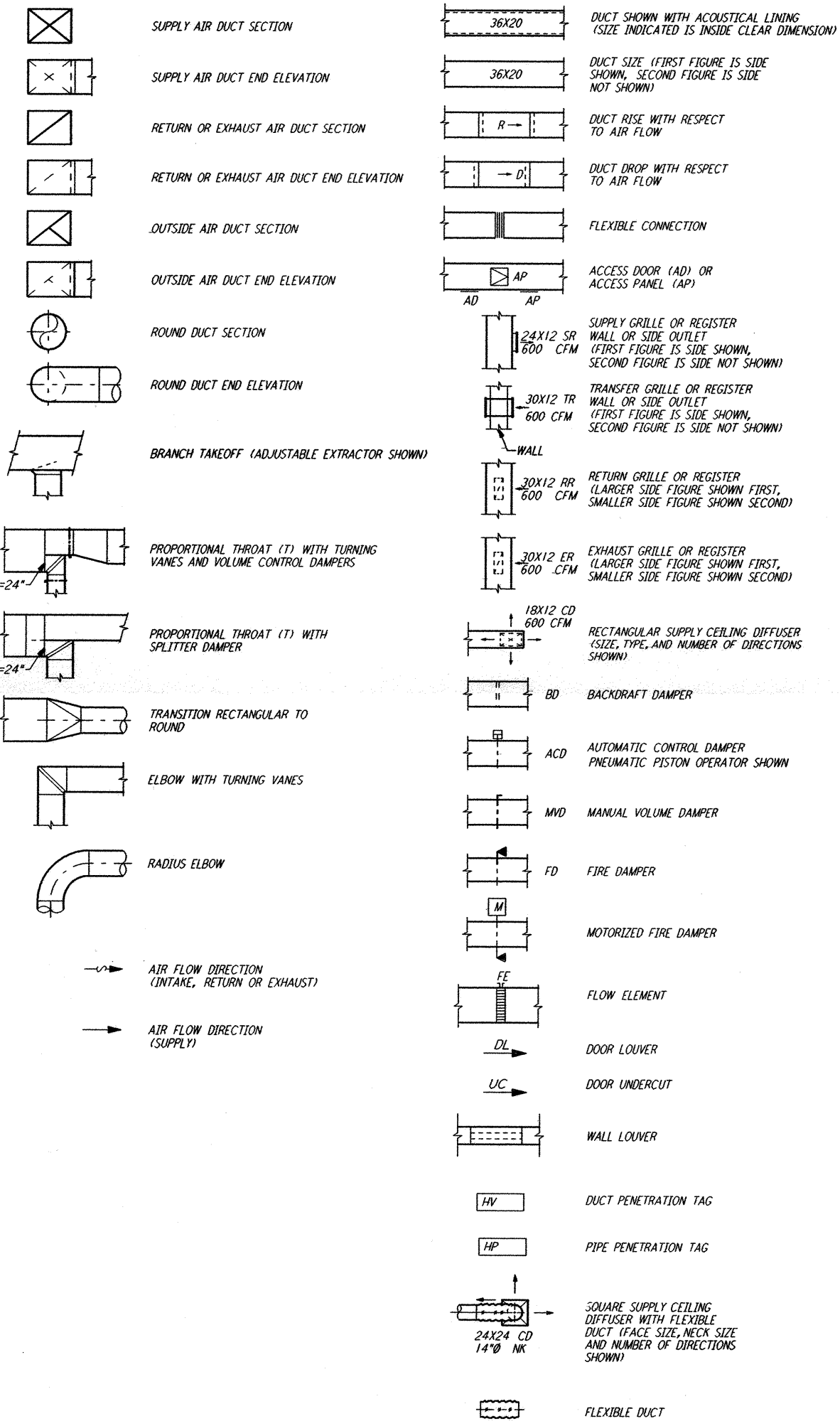
HEATING, VENTILATING AND AIR CONDITIONING LEGEND, SYMBOLS AND ABBREVIATIONS

DOUBLE LINE

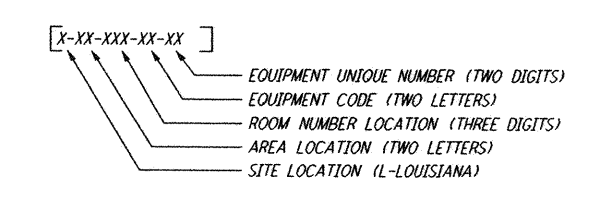
SINGLE LINE

ABBREVIATIONS

EQUIPMENT IDENTIFICATION



ABBREV	WORD OR TERM	ABBREV	WORD OR TERM
ABV	ABOVE	IN	INCH
AC	AIR CONDITIONING	INFL	INFILTRATION
ACFM	ACTUAL CUBIC FEET PER MINUTE	INSTR	INSTRUMENT
ACH	AIR CHANGES/HR	INSUL	INSULATION
AFMS	AIR FLOW MEASURING STATION	IN WC	INCHES WATER COLUMN
AI	ANALOG IN	IN WG	INCHES WATER GAUGE
AO	ANALOG OUT	KW	KILOWATT
APPROX	APPROXIMATE	LONG	LONG
ARCH	ARCHITECTURAL	LB	POUND
ATM	ATMOSPHERE	LG	LEVEL GAUGE
AUTO	AUTOMATIC	LGTH	LENGTH
BD	BACKDRAFT DAMPER	LK	LOCKED ROTOR AMPERES
BEL	BELOW	LVG	LEAVING
BF	BOTTOM FLAT	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING	MCC	MOTOR CONTROL CENTER
BOD	BOTTOM OF DUCT	MCH	MECHANICAL
BOG	BOTTOM OF GRILLE	MFR	MANUFACTURER
BOL	BOTTOM OF LOUVER	MIN	MINIMUM
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BOR	BOTTOM OF REGISTER	MTR	MOUNTING MOTOR
BOU	BOTTOM OF UNIT	NC	NORMALLY CLOSED
BTM	BRITISH THERMAL UNITS PER HOUR	NEG	NEGATIVE
CL	CENTER LINE	NIC	NOT IN CONTRACT
°C	DEGREES CENTIGRADE	NR	NECK
CAP	CAPACITY	NO	NORMALLY OPEN
CCMS	CENTRAL CONTROL MONITORING SYSTEM	NO. (*)	NOT TO SCALE
CCW	COUNTERCLOCKWISE	OA	OUTSIDE AIR
CD	CILING DIFFUSER	OB	OPPOSED BLADE DAMPER
CFH	CUBIC FEET PER HOUR	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CG	CEILING GRILLE	ODP	OPEN DRIP PROOF
CHP	CHILLED WATER RETURN	OPER	OPERATING / OPERATOR
CHS	CHILLED WATER SUPPLY	OPNG	OPENING
CLG	COOLING	PD	PRESSURE DROP
CLG	CENTRIFUGAL	PF	PENETRATIONS
COL	COLUMN	PH	PHASE
CONC	CONCRETE	PL	PLATE
COND	CONDENSATE	PNEU	PNEUMATIC
CONN	CONNECTION	POL	POINT OF CONNECTION
CONT	CONTINUATION	POS	POSITIVE
CR	CEILING REGISTER/CONDENSATE RETURN	PRESS	PRESSURE
CS	CARBON STEEL (GALVANIZED)	PSIG	POUNDS PER SQUARE INCH GAUGE
CW	CLOCKWISE	Δ P	PRESSURE DIFFERENTIAL
CHW	CHILLED WATER RETURN	QTY	QUANTITY
CWS	CONDENSER WATER SUPPLY	R	ROWS
D	DRAIN	RA	RETURN AIR
DA	DIRECT ACTING	RD	REFRIGERANT DISCHARGE
DDC	DIRECT DIGITAL CONTROL	REF	REFERENCE
DUCP	DIRECT DIGITAL CONTROL PANEL	REG	REGISTER
DET	DETAIL	REQD	REQUIRED
DI	DIGITAL IN	RET	REFRIGERANT
DISCH	DISCHARGE	RFGT	RETURN GRILLE
DN	DOWN	RG	RETURN GRILLE
DO	DIGITAL OUT	RH	RELATIVE HUMIDITY
DWG	DRAWING	RHC	REHEAT COIL
Ø / DIA	DIAMETER	RL	REFRIGERANT LIQUID
EA	EACH	RLA	RATED LOAD AMPERES
EFF	EFFICIENCY	RM	ROOM
EG	EXHAUST GRILLE	RPM	REVOLUTIONS PER MINUTE
EL	ELEVATION	RR	RETURN REGISTER
ELB	ELBOW	RS	REFRIGERANT SUCTION
ELECT	ELECTRICAL	RV	REFRIGERANT VENT
ENT	ENTERING	SA	SUPPLY AIR
EP	EXPLOSION PROOF	SCFM	STANDARD CUBIC FEET PER MINUTE
EQUIP	EQUIPMENT	SCHED	SCHEDULE
ER	EXHAUST REGISTER	SD	SMOKE DETECTOR
ESP	EXTERNAL STATIC PRESSURE	SEC	SECONDARY
EXFIL	EXFILTRATION	SF	SUPPLY FAN
EXH	EXHAUST	SG	SUPPLY GRILLE
*F	DEGREES FAHRENHEIT	SH	SHEET
*F DB	DEGREES FAHRENHEIT, DRY BULB (AIR)	SL	SOUND LINING
*F WB	DEGREES FAHRENHEIT, WET BULB (AIR)	SP	STATIC PRESSURE
FC	FAIL CLOSED	SPEC	SPECIFICATION
FD	FIRE DAMPER	SR	SUPPLY REGISTER
FEN	FINISHED	SS	STAINLESS STEEL
FL	FAIL LOCKED	STD	STANDARD
FLA	FULL-LOAD AMPERES	STM	STEAM
FLEX	FLEXIBLE	STRUCT	STRUCTURAL
FLG	FLANGE	SV	SOLENOID VALVE
FLO	FLOOR	SW	SWITCH
FLR	FLOOR	TEFC	TOTALLY ENCLOSED FAN COOLED
FLTR	FILTER	TEMP	TEMPERATURE
FO	FAIL OPEN	TG	TRANSFER GRILLE
FP	FIRE PROTECTION	TOC	TOP OF CONCRETE
FPI	FINS PER INCH	TOD	TOP OF DUCT
FPM	FEET PER MINUTE	TOS	TOP OF STEEL
FT	FEET	TR	TRANSFER REGISTER
FT ²	SQUARE FEET	TRNSF	TRANSFER
FT ³	CUBIC FEET	TSP	TOTAL STATIC PRESSURE
FURN	FURNISHED	TYP	TYPICAL
FWD CRV	FORWARD CURVED	UC	UNDERCUT DOOR
GA	GAUGE	UG	UNDERGROUND
GAL	GALLON	UV	UNIT VENTILATOR
GALV	GALVANIZED	V	VENT
GFE	GOVERNMENT FURNISHED EQUIPMENT	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VERT	VERTICAL
H	HIGH	VFD	VARIABLE FREQUENCY DRIVE
HD	HEAD	VIV	VARIABLE INLET VANES
HDR	HEADER	W	WIDE
HEPA	HIGH EFFICIENCY PARTICULATE AIR FILTER	W/	WITH
HOA	HAND/OFF/AUTO	WC	WATER COLUMN
HORIZ	HORIZONTAL	WG	WATER GAUGE
HP	HORSEPOWER	WN	WELD NECK
HT	HEIGHT	WP	WORKING POINT
HTG	HEATING	WT	WEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	WTR	WATER
HWR	HEATING HOT WATER RETURN		
HWS	HEATING HOT WATER SUPPLY		
HE	HERTZ		
ID	INSIDE DIAMETER		
I.E.	THAT IS		



CODE	EQUIPMENT
AC	AIR CONDITIONING UNIT/COMPRESSOR (AIR)
AH	AIR HANDLING UNIT
AS	SEPARATOR (AIR)
AU	AIR COOLED CONDENSING UNIT
B	BOILER
CC	COOLING COIL
CH	CHILLER
CT	COOLING TOWER
CU	CONDENSATE RETURN UNIT
DE	DEHUMIDIFIER
DH	DUCT HEATER
DR	DEAERATOR
DV	VARIABLE AIR VOLUME BOX (DOUBLE DUCT)
EF	EXHAUST FAN
F	FILTER
FC	FAN COIL UNIT
GP	GLYCOL MIX FEED PUMP
H	HUMIDIFIER
HC	HEATING COIL
HE	HEAT EXCHANGER
PF	PRESSURIZATION FAN
RC	COMPRESSOR (REFRIGERATION)
REC	RECEIVER
RF	RETURN FAN
SA	SOUND ATTENUATOR
SF	SUPPLY FAN
SV	VARIABLE AIR VOLUME BOX (SINGLE DUCT)
T	STEAM TRAP
TK	TANK
UH	UNIT HEATER
WP	CIRCULATING WATER PUMP

CODE	SITE LOCATION
L	LOUISIANA

CODE	AREA LOCATION
CS	CORNER STATION
MA	MID STATION "A"
MB	MID STATION "B"
EA	END STATION "A"
EB	END STATION "B"

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NO.	DATE	APRD BY	DESCRIPTION OF REVISION
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NO.	DATE	APRD BY	ISSUED FOR
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A	10/31/95	TDM	PRELIMINARY DESIGN REVIEW

DATE	10/31/95
DRAWN	CLP
CHECKED	
ENGINEER	
PROJ MGR	

100 WEST WALNUT STREET
PASADENA, CALIFORNIA

CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE	LEGEND AND ABBREVIATIONS	SCALE	NONE	CONTRACT NUMBER	PP150969	PROJECT NUMBER	8094
SHEET NUMBER		LA-H-001		REVISIONS			

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