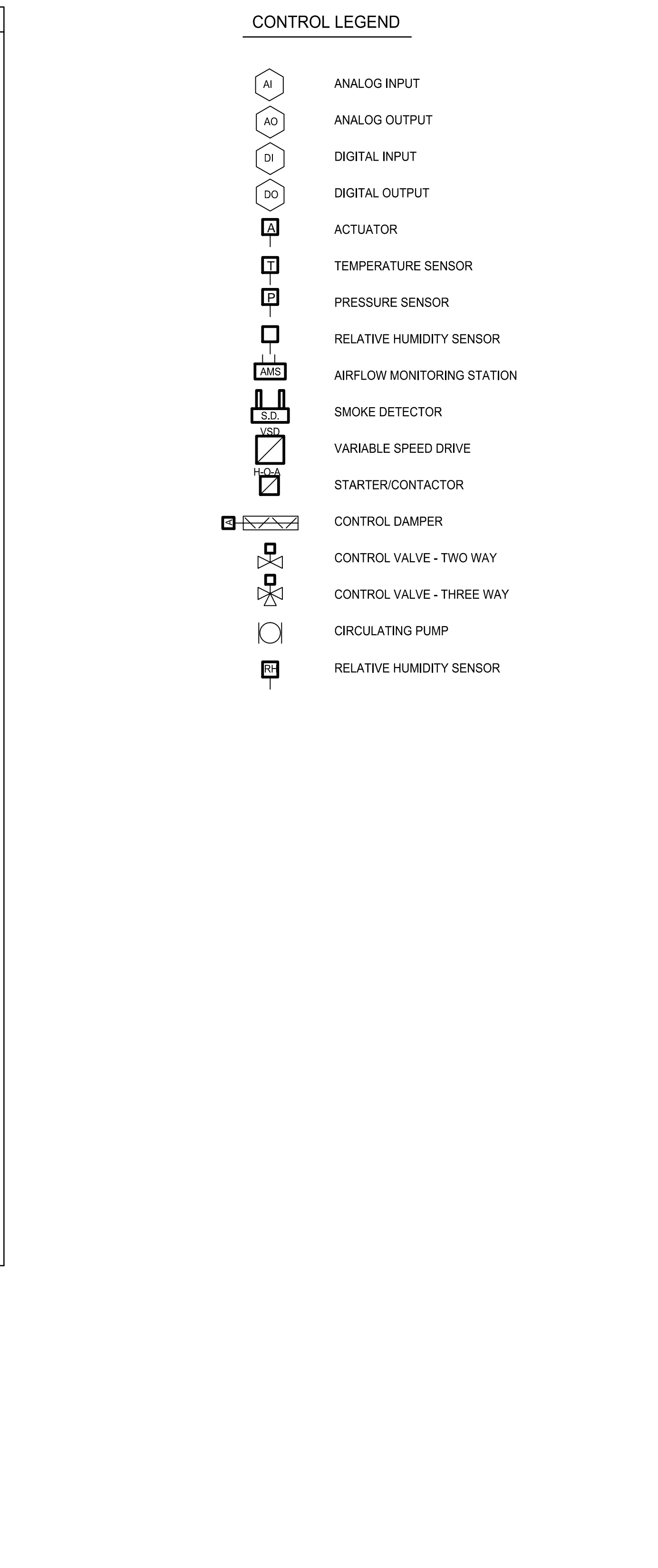
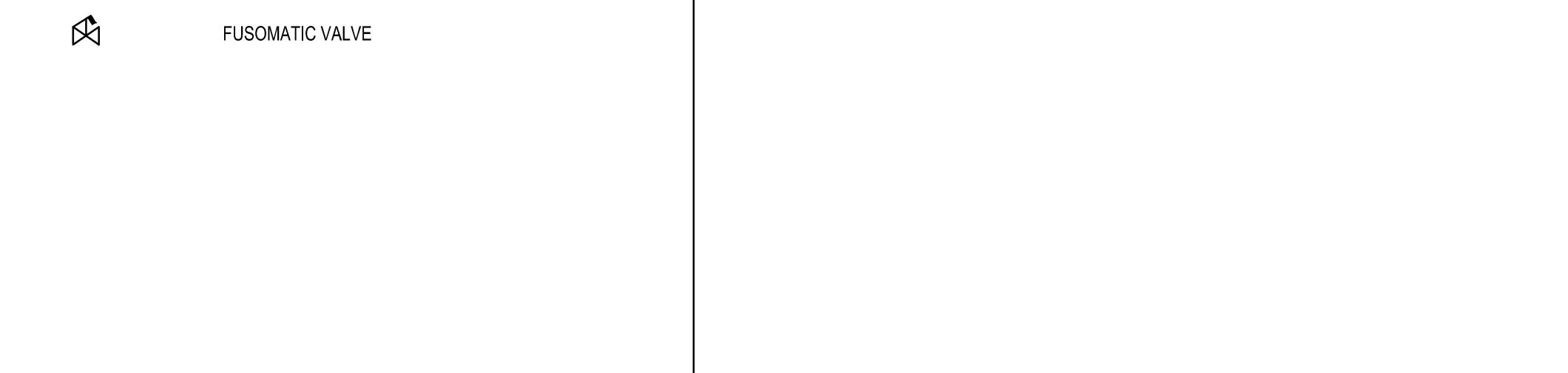
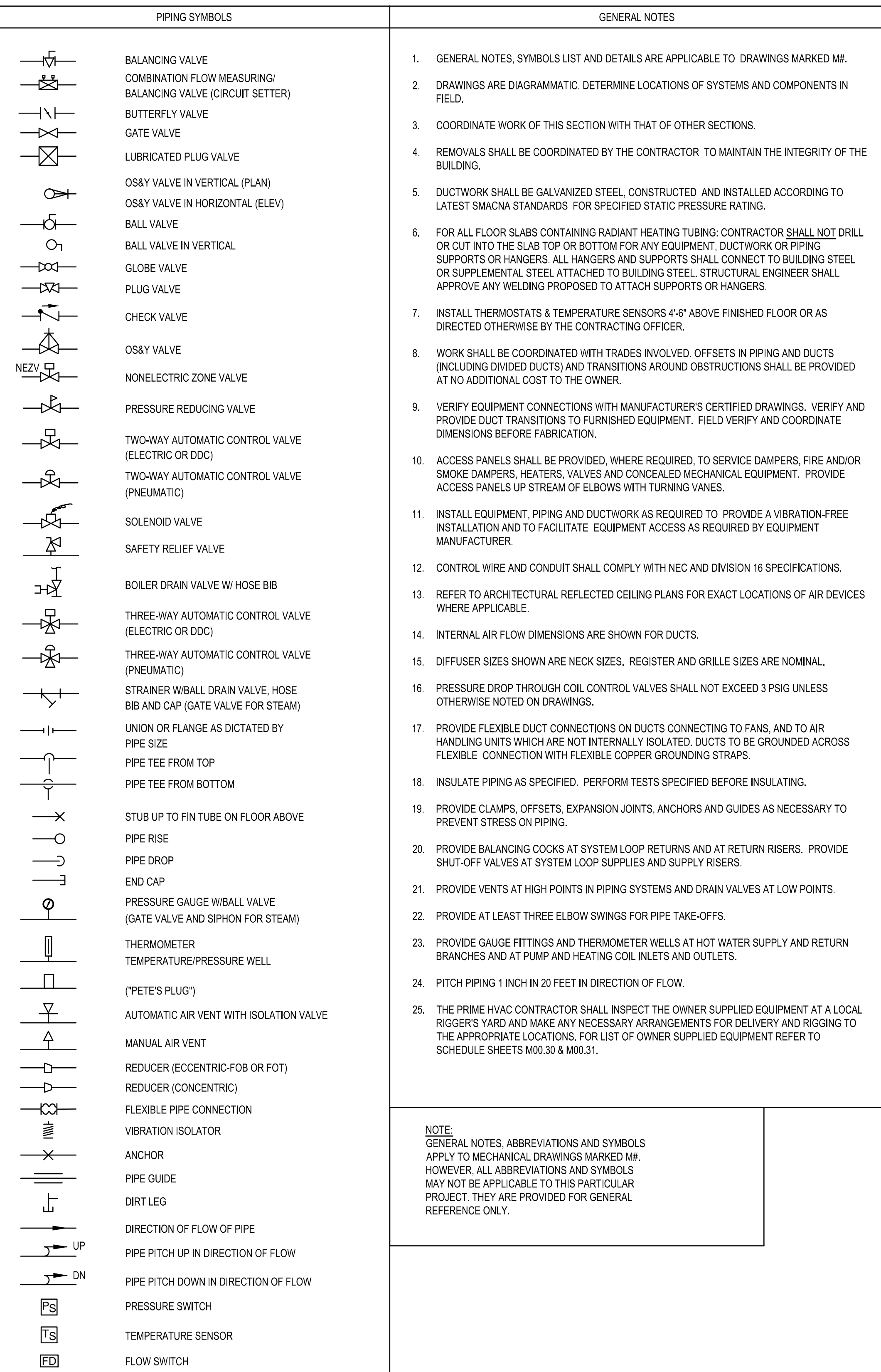
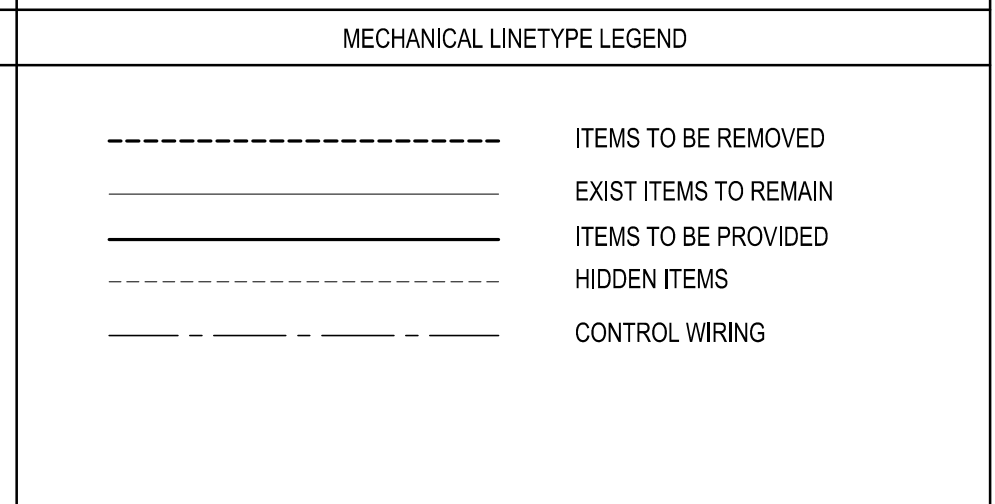
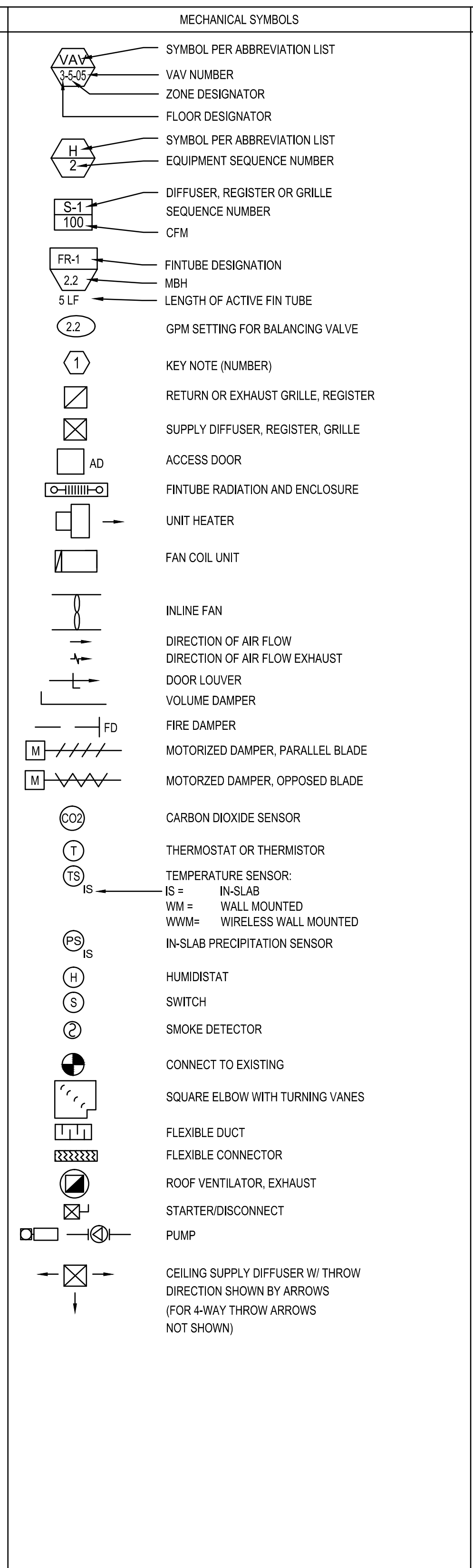
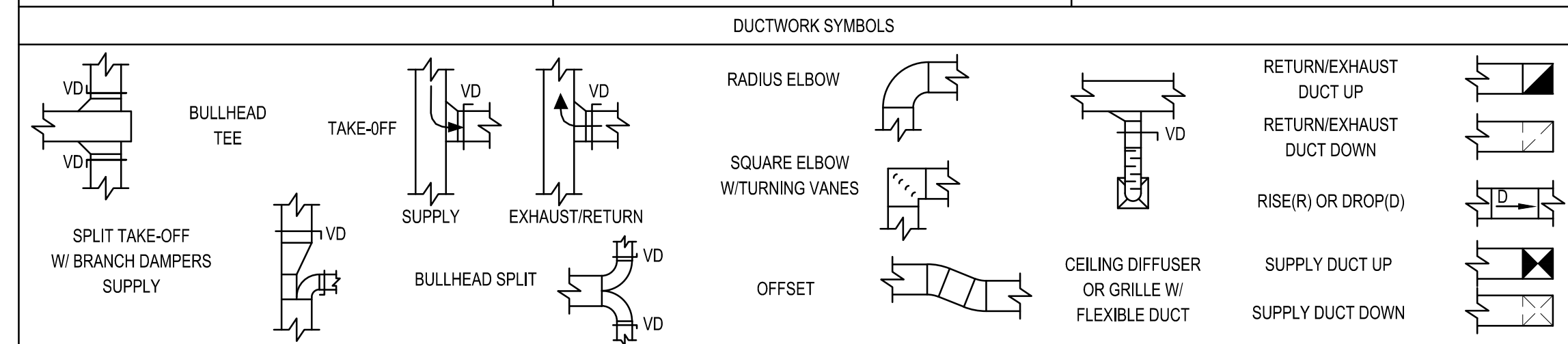


ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS	
@	AT	FACP	FIRE ALARM CONTROL PANEL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
A	AMP	FAI	FRESH AIR INTAKE	NG	NATURAL GAS
ABV	ABOVE	FBO	FURNISHED BY GOVERNMENT	NIC	NETWORK INTERFACE CONTROLLER
AC	AIR CONDITIONING	FC	FLEX CONNECT	NO	NORMALLY OPEN VALVE
AD	AIR DOOR	FCD	FLOOR CLEANOUT	NO2	NITROGEN DIOXIDE
ADA	AMERICANS WITH DISABILITIES ACT	FCR	FLUID COOLER RETURN	NTS	NOT TO SCALE
AF	AIR FILTERS	FCS	FLUID COOLER SUPPLY	ON	OUTSIDE AIR
AFF	ABOVE FINISHED FLOOR	FCL	FAN COIL UNIT	DAI	OUTSIDE AIR INTAKE
AHM	AIR FLOW MEASURING STATION	FD	FIRE DAMPER, FLOOR DRAIN	DAT	OUTSIDE AIR TEMPERATURE
AHU	AIR HANDLING UNIT	FF	FRESH FLOOR	DBD	OPEN ENDED DUCT
AL	ACOUSTICAL LINER	FX	FIXTURE	OD	OUTSIDE DAMPER
AMB	AMBIENT	FLA	FULL LOAD AMPS	OED	OPEN ENDED DUCT
AP	ACCESS PANEL	FLR	FLOOR	OSY	OUTSIDE STEM AND YOKE
APPROX	APPROXIMATELY	FOB	FLAT ON BOTTOM	OUT	OUTSIDE AIR TEMPERATURE
AS	AIR SEPARATOR	FOT	FLAT ON TOP	P	PUMP, RYTOX
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	FP/AV	FAN POWERED VARIABLE AIR VOLUME	PC	PUMPED CONDENSATE
ASSY	ASSEMBLY	FS	FLOW SWITCH	PE	PRESSURE TREATED
ATC	AUTOMATIC TEMPERATURE CONTROL	FT/FR	FAN TUBE RADIATION	PLMB	PLUMBING
ATT	AUTOMATIC ATTENUATOR	FZ	FREEZE STAT	PRESS	PRESSURE
AV	AUTOMATIC VENT	GA	GAUGE	PRV	PRESSURE REDUCING VALVE
BC	BLOWER COIL	GAL	GALLONS	PSI	POUNDS PER SQUARE INCH
BDD	BACKDRIFT DAMPER	GALV	GALVANIZED	PSIG	POUNDS PER SQUARE INCH GAGE
BHP	BROKE HORSEPOWER	GBRF	GEOTHERMAL BORE FIELD RETURN	PT	PRESSURE TREATED
BLDG	BUILDING	GBFS	GEOTHERMAL BORE FIELD SUPPLY	PVC	POLY VINYL CHLORIDE
BOT	BOTTOM	GC	GENERAL CONTRACTOR	QTY	QUANTITY
BTUH	BTU PER HOUR	GG	GALLONS PER HOUR	R	ROUND
C	CENTERLINE, CONNECTOR	GPM	GALLONS PER MINUTE	RA	RETURN AIR
CA	COMPRESSED AIR	GR	GLYCOL RETURN	RAO	RETURN AIR
CAP	CAPACITY	GS	GLYCOL SUPPLY	RAF, RF	RETURN AIR FAN
CD	CONDENSATE DRAIN	GRH	GRAVITY RELIEF HOOD	RAT	RETURN AIR TEMPERATURE
CDR	CONDENSER WATER RETURN	GM	GALVANIZED SHEET METAL	REL	RELIEF
CDS	CONDENSER WATER SUPPLY	GYP	Gypsum WALLBOARD	REQD	REQUIRED
CFM	CUBIC FEET PER MINUTE	H	HEATING COIL	RET, R	RETURN
CH	CHILLED WATER	HAW	HORIZONTAL HEATING WATER	RH	RELATIVE HUMIDITY
CHW	CHILLED WATER	HOA	HAND-OFF AUTOMATIC	RL	RELIEF
CHWR	CHILLED WATER RETURN	HORIZ	HORIZONTAL	RM	ROOM RADIANT MANIFOLD
CHWS	CHILLED WATER SUPPLY	HP	HORSEPOWER, HIGH PRESSURE	RPM	REVOLUTIONS PER MINUTE
CLG	CEILING	HPC	HIGH PRESSURE CONDENSATE	RS	REFRIGERANT SUCTION
CMS	CONTROLS MONITORING STATION	HPS	HIGH PRESSURE STEAM (15 PSIG TO 150 PSIG)	RTU	ROOFTOP UNIT
CO	CLEAN OUT/CARBON MONOXIDE	HR	HOUR	S	SUPPLY
COL	COLUMN	HT	HEIGHT	SA	SCREEN
CONC	CONCRETE	HTHWR	HIGH TEMPERATURE (180°F) HOT WATER RETURN	SD	SMOKE DAMPER
COND	CONDENSATE	HTHWS	HIGH TEMPERATURE (180°F) HOT WATER SUPPLY	SF	SQUARE FOOT, SUPPLY FAN
CONN	CONNECTION	HUMID	HUMIDIFIER	SH	SHIM
CONT	CONTINUATION	HV	HEATING AND VENTILATING UNIT	SM	SNOWMELT MANFOLD
CONV	CONVECTOR	HVAC	HEATING, VENTING AND AIR CONDITIONING UNIT	SMACHA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
CP	CONTROL PANEL, CONDENSATE PUMP	HW	HOT WATER	SOV	SHUT OFF VALVE
CJ	CONDENSING UNIT	HWR	HOT WATER RETURN	SP	STATIC PRESSURE
CUN	CABINET UNIT HEATER	HWS	HOT WATER SUPPLY	SPH	STATIC PRESSURE HIGH LIMIT
CW	COLD WATER	HX	HEAT EXCHANGER	SPL	STATIC PRESSURE LOW LIMIT
CWR	COLD WATER RETURN	HC	HERTZ	SPS	STATIC PRESSURE SENSOR
CHS	COLD WATER SUPPLY	HIC	HYPONIC INSULITE	SQ	SQUARE
CV	CONTROL VALVE	ID	INSIDE DIAMETER	SS	STAINLESS STEEL
CVT	CONSTANT VOLUME AIR TERMINAL	IN	INCHES	STL	STEEL
D	DRAW	INDR	INDIRECT WASTE	SUP, S	SUPPLY
DB	DECIBELS	KW	KILOWATT	T	THERMOSTAT
DD	DRY BULB	L	LENGTH	TS	TEMPERATURE SENSOR
DDC	DIRECT DIGITAL CONTROL	LAT	LEAVING AIR TEMPERATURE	TC	TOTAL COOLING
DDCP	DIRECT DIGITAL CONTROL PANEL	LD	LIQUID PETROLEUM	TCC	THE CONTROLS CONTRACTOR
Ø DIA	DIAMETER	LDB	LEAVING DRY BULB	TCP	TERMINAL EQUIPMENT CONTROLLER
DIFF	DIFFERENTIAL	LF	LINEAR FEET	TEMP	TEMPERATURE
DHWH	DOMESTIC HW HEATER	LG	LONG	TG	TRANSFER GRILLE
DISCH	DISCHARGE	LOC	LOCATION LOCATED	TSP	TOTAL STATIC PRESSURE
DW	DOWN	LP	LIQUIFIED PROPANE	TYP	TYPICAL
DN	DOWN	LPC	LOW PRESSURE CONDENSATE	UH	UNIT HEATER
DOM	DOMESTIC	LPS	LOW PRESSURE STEAM (15 PSIG OR LESS)	UPS	UNINTERRUPTIBLE POWER SUPPLY
DPC	DUCTLESS SPLIT SYSTEM CONDENSER	LUA	LOCKED ROTOR AMPS	V	VARIABLE AIR VOLUME
DSP	DUCTLESS SPLIT SYSTEM FAN	LWT	LOW TEMPERATURE (130°F) HOT WATER RETURN	VD	VOLUME DAMPER
DWG	DRAWING	LWS	LOW TEMPERATURE (130°F) HOT WATER SUPPLY	VFD	VARIABLE FREQUENCY DRIVE
DWGS	DRAWINGS	LWT	LEAVING WATER TEMPERATURE	W	WIDTH
EA	EXHAUST AIR	MANUF	MANUFACTURER	W	WITH
EAT	ENTERING AIR TEMPERATURE	MAX	MAXIMUM	WB	WET-BULB
EC	ELECTRICAL CONTRACTOR	MBH	MAXIMUM PRESSURE DROP	WC	WATER COLUMN
EDR	EQUIVALENT DIRECT RADIATION	MEF	EFFICIENCY	WCO	WALL CLEANOUT
EF	EXHAUST FAN	MEU	1000 BTU	WF	WALL FAN
EFF	EFFICIENCY	MCA	MAXIMUM CIRCUIT AMPS	WG	WATER GAUGE
ELEC	ELECTRIC	MCC	MOTOR CONTROL CENTER	WN	WATER HEATER
ELEV	ELEVATION	MD	MOTORIZED DAMPER		
EPDM	EHTYLENE PROPYLENE DIENE MEMBRANE	MECH	MECHANICAL		
EQUIP	EQUIPMENT	MEZZ	MEZZANINE		
ESP	EXTERNAL STATIC PRESSURE	MFG	MANUFACTURER		
ET	EXPANSION TANK	MIN	MINIMUM		
EVAP	EVAPORATOR	MNTD	MOUNTED		
EWC	ELECTRIC WATER COOLER	MUA	MAKE-UP-AIR		
EWI	ENTERING WATER TEMPERATURE	MW	MAKE-UP-WATER		
EXH, E	EXHAUST	N/A	NOT APPLICABLE		
EXIST	EXISTING	NATL	NATURAL		
ES	EXISTING SIZE NOTATION	NC	NORMALLY CLOSED, NOISE CRITERIA		
EXT	EXPANSION TANK	NEG	NEGLECTABLE		
EXP	EXPANSION				
F	FAN, DEGREES FAHRENHEIT				
FA	FRESH AIR				



SHEET NOTES

- GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO DRAWINGS MARKED MR.
- DRAWINGS ARE DIAGRAMMATIC. DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
- COORDINATE WORK OF THIS SECTION WITH THAT OF OTHER SECTIONS.
- REVISIONS SHALL BE COORDINATED BY THE CONTRACTOR TO MAINTAIN THE INTEGRITY OF THE BUILDING.
- DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED ACCORDING TO LATEST SMACNA STANDARDS FOR SPECIFIED STATIC PRESSURE RATING.
- FOR ALL FLOOR SLABS CONTAINING RADIANT HEATING TUBING, CONTRACTOR SHALL NOT DRILL OR CUT INTO THE SLAB TOP OR BOTTOM FOR ANY EQUIPMENT, DUCTWORK OR PIPING. SUPPORTS OR HANGERS, ALL HANGERS AND SUPPORTS SHALL CONNECT TO BUILDING STEEL OR SUPPLEMENTAL STEEL ATTACHED TO BUILDING STEEL. STRUCTURAL ENGINEER SHALL APPROVE ANY WELDING PROPOSED TO ATTACH SUPPORTS OR HANGERS.
- INSTALL THERMOSTATS & TEMPERATURE SENSORS 4'-6" ABOVE FINISHED FLOOR OR AS DIRECTED OTHERWISE BY THE CONTRACTING OFFICER.
- WORK SHALL BE COORDINATED WITH TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
- ACCESS PANELS SHALL BE PROVIDED, WHERE REQUIRED, TO SERVICE DAMPERS, FIRE AND/OR SMOKE DAMPERS, HEATERS, VALVES AND CONCEALED MECHANICAL EQUIPMENT. PROVIDE ACCESS PANELS UP STREAM OF ELBOWS WITH TURNING VANES.
- INSTALL EQUIPMENT, PIPING AND DUCTWORK AS REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION AND TO FACILITATE EQUIPMENT ACCESS AS REQUIRED BY EQUIPMENT MANUFACTURER.
- CONTROL WIRE AND CONDUIT SHALL COMPLY WITH NEC AND DIVISION 16 SPECIFICATIONS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES WHERE APPLICABLE.
- INTERNAL AIR FLOW DIMENSIONS ARE SHOWN FOR DUCTS.
- DIFFUSER SIZES SHOWN ARE NECK SIZES. REGISTER AND GRILLE SIZES ARE NOMINAL.
- PRESSURE DROP THROUGH COIL CONTROL VALVES SHALL NOT EXCEED 3 PSIG UNLESS OTHERWISE NOTED ON DRAWINGS.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON DUCTS CONNECTING TO FANS, AND TO AIR HANDLING UNITS WHICH ARE NOT INTERNALLY ISOLATED. DUCTS TO BE GROUNDED ACROSS FLEXIBLE CONNECTION WITH FLEXIBLE COPPER GROUNDING STRAPS.
- INSULATE PIPING AS SPECIFIED. PERFORM TESTS SPECIFIED BEFORE INSULATING. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- PROVIDE BALANCING COCKS AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUT-OFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS.
- TERMINAL EQUIPMENT CONTROLLER
- PROVIDE AT LEAST THREE ELBOW SWINGS FOR PIPE TAKE-OFFS.
- PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP AND HEATING COIL INLETS AND OUTLETS.
- PITCH PIPING 1/4" IN 20 FEET IN DIRECTION OF FLOW.
- THE PRIME HVAC CONTRACTOR SHALL INSPECT THE OWNER SUPPLIED EQUIPMENT AT A LOCAL RIGGERS YARD AND MAKE ANY NECESSARY ARRANGEMENTS FOR DELIVERY AND RIGGING TO THE APPROPRIATE LOCATIONS. FOR LIST OF OWNER SUPPLIED EQUIPMENT REFER TO SCHEDULE SHEETS M00.30 & M00.31.

NOTE:
GENERAL NOTES, ABBREVIATIONS AND SYMBOLS APPLY TO MECHANICAL DRAWINGS MARKED MR. HOWEVER, ALL ABBREVIATIONS AND SYMBOLS MAY NOT BE APPLICABLE TO THIS PARTICULAR PROJECT. THEY ARE PROVIDED FOR GENERAL REFERENCE ONLY.

GENERAL NOTES

THESE DRAWINGS ARE ISSUED FOR CONSTRUCTION AND REFLECT ALL AMEC ISSUED BULLETINS AND SKETCHES.

Issue	Date & Issue Description	By	Check
01	07/11/08	PWZ	RHB
02	09/22/08	PWZ	RHB
03	12/03/08	PWZ	RHB
04	01/23/09	PWZ	RHB
05	10/26/09	PWZ	RHB
06	05/21/10	PWZ	RHB
07	09/01/11	PWZ	RHB

PROJECT NAME: PWM Terminal Enhancement

PROJECT NUMBER: 08-6395-000
CAD FILE NAME: T:\6330101\6395\M00.00.dwg

DESCRIPTION: MECHANICAL LEGEND & GENERAL NOTES

SCALE: 1"=1'

M00.00

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