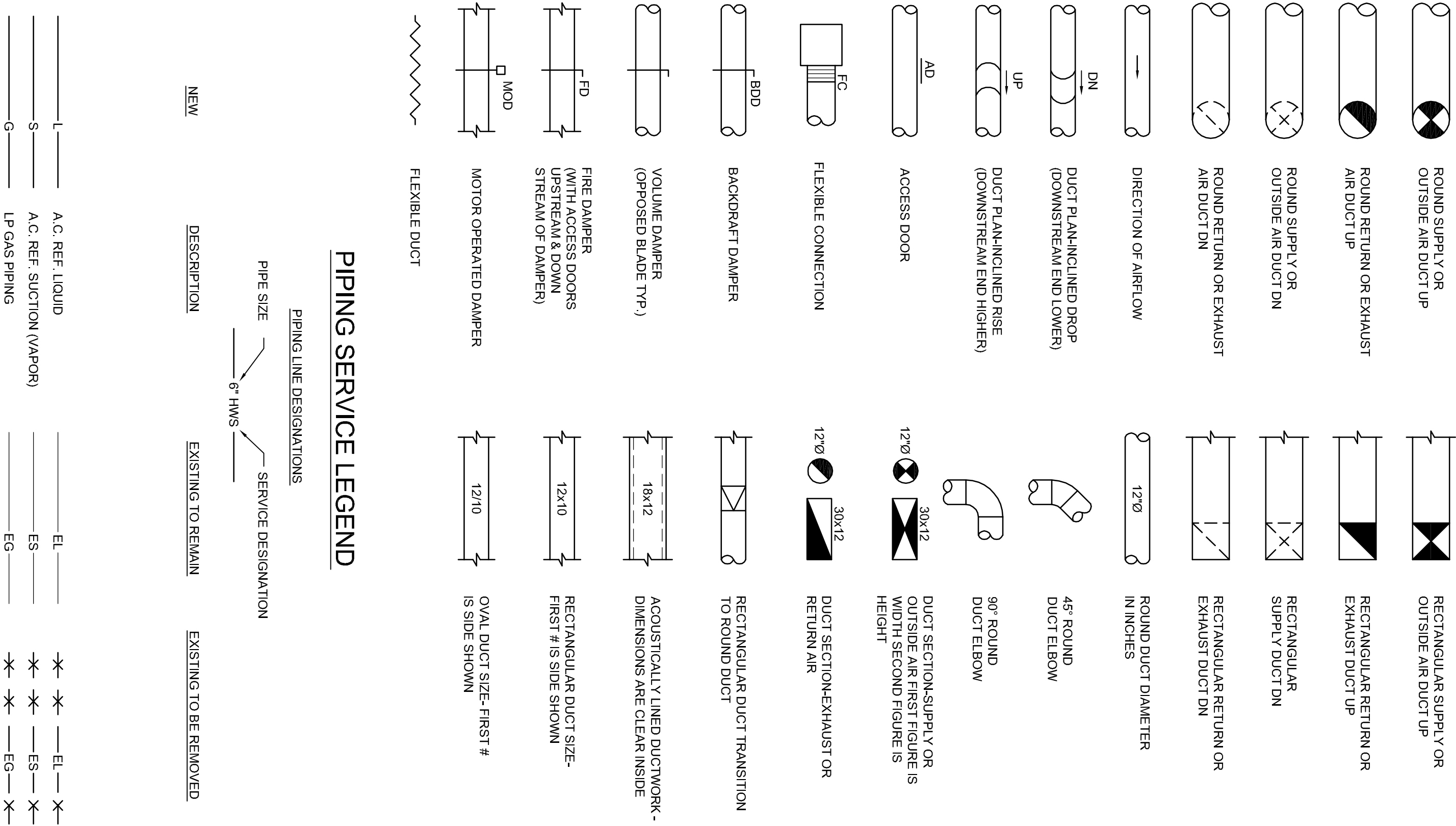
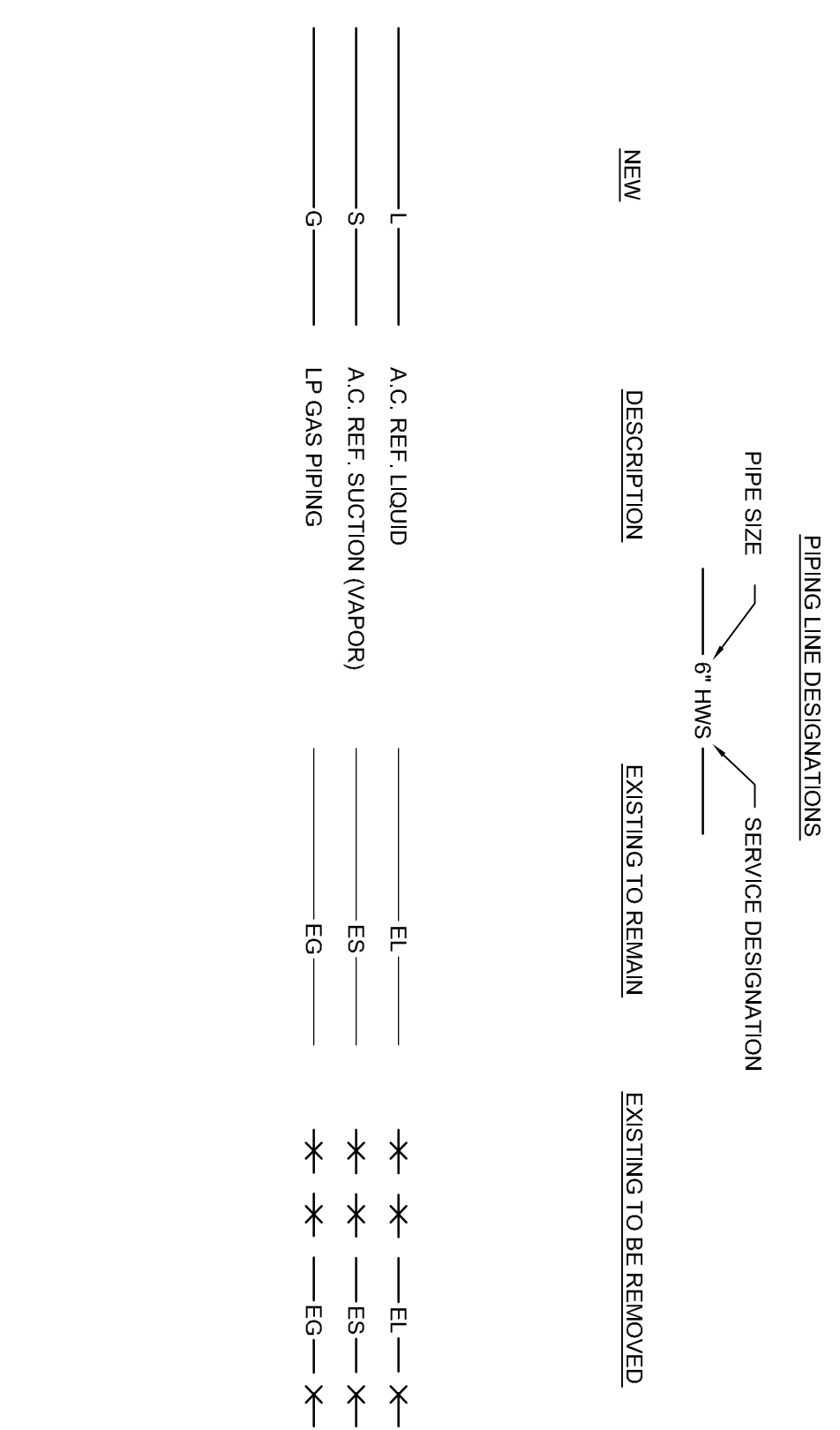


### DUCTWORK STANDARDS



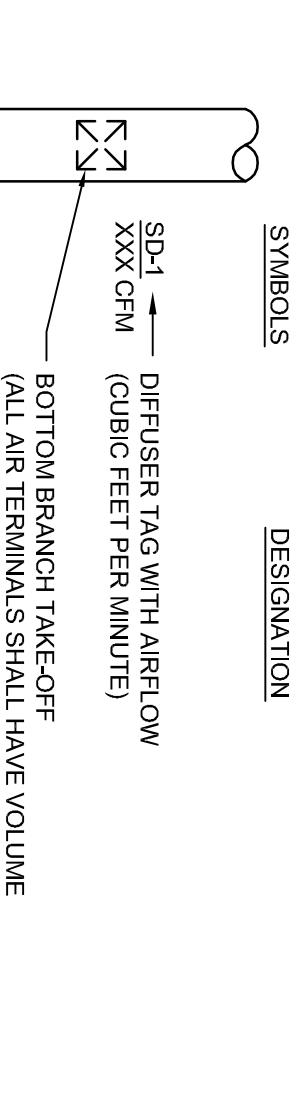
### PIPING SERVICE LEGEND



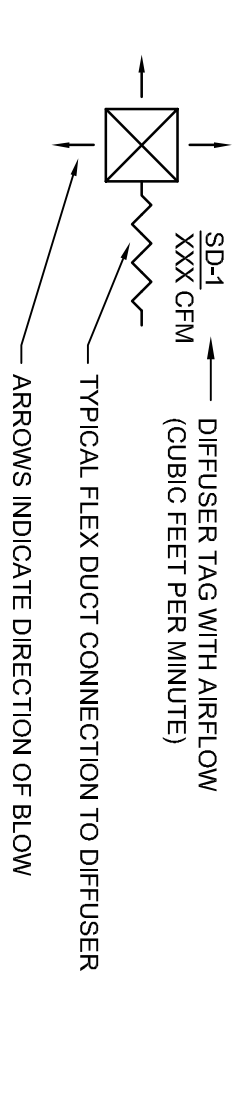
### GRILLE, REGISTERS, DIFFUSERS & AIRFLOW

ABBREV.	DESIGNATION	ABBREV.	DESIGNATION
ER	EXHAUST REGISTER	EA	EXHAUST AIR
RD	RETURN DIFFUSER	OA	OUTDOOR AIR
RG	RETURN GRILLE	RA	RETURN AIR
RR	RETURN REGISTER	RLA	RELIEF AIR
SD	SUPPLY DIFFUSER	SA	SUPPLY AIR
SR	LINEAR SUPPLY DIFFUSER		
TD	TRANSFER DIFFUSER		
TG	TRANSFER GRILLE		
TR	TRANSFER REGISTER		
VD	VOLUME DAMPER		

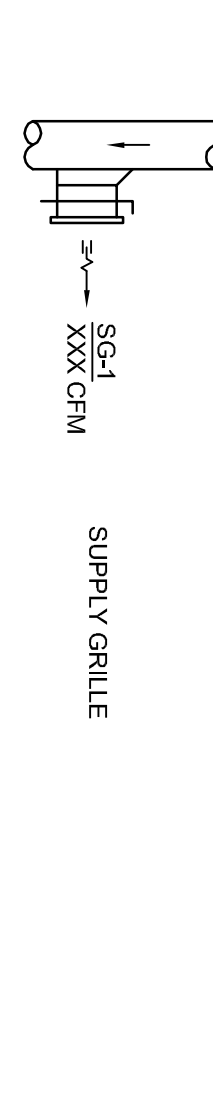
### TYPICAL BOTTOM OF DUCT DIFFUSER DROP



### TYPICAL CEILING DIFFUSER



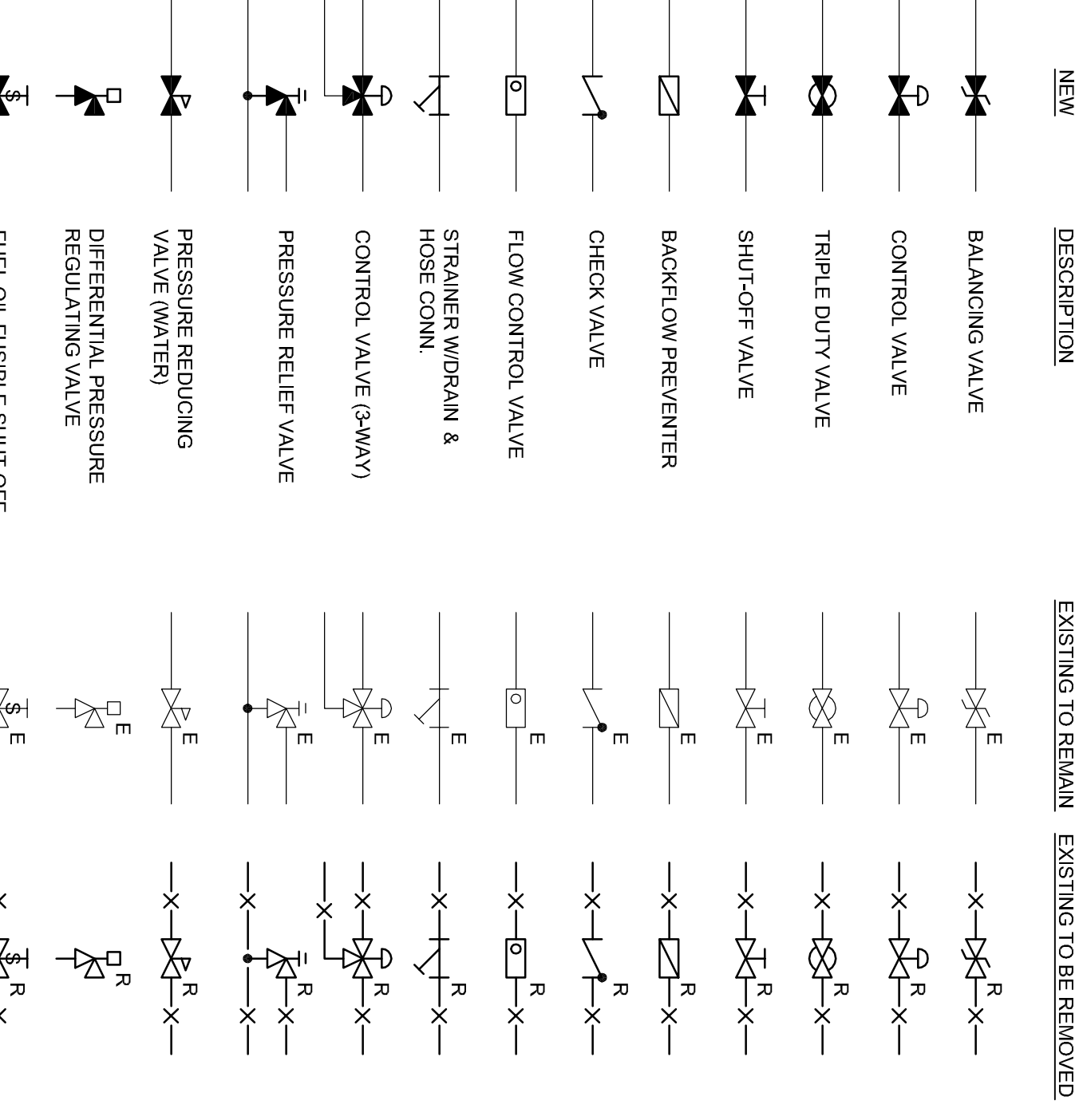
### TYPICAL REGISTER/GRILLE



### EQUIPMENT TAG LEGEND

TAG	DESIGNATION
AHL-1	AIR HANDLING UNIT DESIGNATION
B-1	BOILER DESIGNATION
BB-1	BASEBOARD DESIGNATION
BPD-1	BYPASS DAMPER DESIGNATION
CH-1	CHILLER UNIT DESIGNATION
CONV-1	CONNECTOR UNIT DESIGNATION
CUH-1	CABINET UNIT HEATER DESIGNATION
EF-1	EXHAUST FAN DESIGNATION
FC-1	FAN COIL DESIGNATION
FR-1	FINNED TUBE RADIATION DESIGNATION
HE-1	HEAT EXCHANGER DESIGNATION
HRU-1	HEAT RECOVERY UNIT DESIGNATION
HC-1	HEATING COIL DESIGNATION
P-1	PUMP DESIGNATION
RF-1	RETURN FAN DESIGNATION
RTU-1	ROOF TOP UNIT DESIGNATION
SF-1	SUPPLY FAN DESIGNATION
TSH-1	TOE SPACE HEATER DESIGNATION
UH-1	UNIT HEATER DESIGNATION
UV-1	UNIT VENTILATOR DESIGNATION
VAV-1	VARIABLE AIR VOLUME BOX DESIGNATION
XI-1	EXPANSION TANK DESIGNATION
ZD-1	ZONE DAMPER DESIGNATION

### HEATING AND VENTING SYMBOLS



### MISCELLANEOUS ABBREVIATIONS

ABBREV.	DESIGNATION	ABBREV.	DESIGNATION
A	ANCHOR	OSV	OIL SAFETY VALVE
AD	ACCESS DOOR	PD	PRESSURE DROP
AFF	ABOVE FINISHED FLOOR	RIC	RUN IN COVER
APD	AIR PRESSURE DROP	RPM	REVOLUTIONS PER MINUTE
AWT	AVERAGE WATER TEMPERATURE	SP	STATIC PRESSURE
BD	BAROMETRIC DAMPER	TV	TURNING VANES
BDD	BACKDRAFT DAMPER	TV	TYPICAL
BOS	BOTTOM OF STEEL	V	VENT
BTU	BRITISH THERMAL UNITS	VD	VOLUME DAMPER
BV	BRICK VENT	WB	WET BULB
CD	COOLING CONDENSATE DRAINAGE	ZD	ZONE DAMPER
CFM	CUBIC FEET PER MINUTE	E	EXISTING TO REMAIN
D	DUCTWORK	ER	EXISTING RELOCATED
DB	DRY BULB	NR	NEW TO BE REMOVED
EAT	ENTERING AIR TEMP.	R	REMOVE & RELOCATE EXISTING
ECC	ECCENTRIC		
EL	ELEVATION		
EWT	ENTERING WATER TEMPERATURE		
FA	FRESH AIR		
FC	FLEXIBLE CONNECTION		
FD	FIRE DAMPER		
FMA	FULL LOAD AMPS		
GPM	GALLONS PER MINUTE		
HP	HORSEPOWER		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
HMBB	HOT WATER BASEBOARD		
HZ	HERTZ		
LAT	LEAVING AIR TEMP.		
LF	LINEAL FEET		
LEA	LOCKED ROTOR AMPS		
LWCO	LOW WATER CUT-OFF		
LWT	LEAVING WATER TEMPERATURE		
MAX	MAXIMUM		
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR		
MD	MANUAL DAMPER		
MIN	MINIMUM		
MOD	MOTOR OPERATED DAMPER		
MV	MANUAL VENT		
N.C.	NORMALLY CLOSED		
OA	OUTSIDE AIR		
OSV	OIL SAFETY VALVE		
PD	PRESSURE DROP		
RIC	RUN IN COVER		
RPM	REVOLUTIONS PER MINUTE		
SP	STATIC PRESSURE		
TOS	TOP OF STEEL		
TV	TURNING VANES		
TYP.	TYPICAL		
V	VENT		
VD	VOLUME DAMPER		
WB	WET BULB		
ZD	ZONE DAMPER		
E	EXISTING TO REMAIN		
ER	EXISTING RELOCATED		
NR	NEW TO BE REMOVED		
R	REMOVE & RELOCATE EXISTING		

### SECTION & DETAIL MARKERS

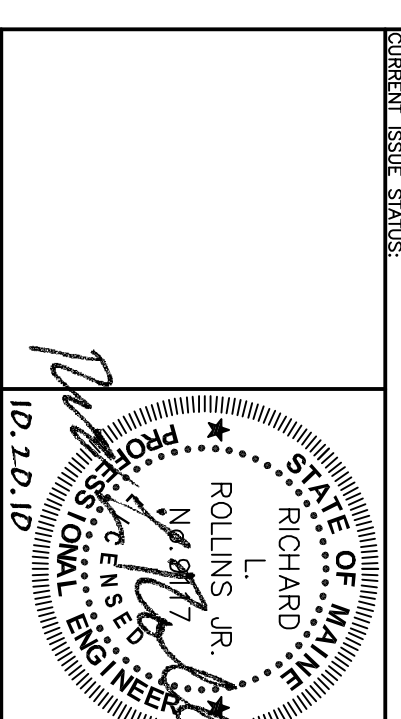


### GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE.
- ALL NEW SPACE THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR (AFF).
- EQUIPMENT, DUCTWORK AND PIPING LOCATIONS SHOWN ARE APPROXIMATE EXCEPT WHERE DIMENSIONED. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR TO AVOID INTERFERENCES.
- ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WEATHERTIGHT.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
- DUCTWORK SHALL BE COORDINATED TO PREVENT ANY INTERFERENCES WITH PLUMBING, PIPING, ELECTRICAL, STRUCTURAL FIRE PROTECTION, ARCHITECTURAL AND OTHER WORK.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING DUCT SIZES, PIPE SIZES, LOUVERS, ETC. INCLUDING LOCATIONS & ARRANGEMENTS OF SAME. COORDINATE NEW WORK WITH EXISTING CONDITIONS.
- FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN MOTORIZED UNITS AND DUCTWORK CONNECTIONS.
- PROVIDE ACCESS DOORS IN EQUIPMENT AND DUCTWORK FOR ACCESS TO DAMPERS, MOTORS, FILTERS, FANS AND FURNACES.
- ALL DUCT SIZES SHOWN ARE CLEAR INTERNAL DIMENSIONS.
- ALL DUCTWORK TO BE CONSTRUCTED, FABRICATED, & INSTALLED IN ACCORDANCE WITH SMACNA.
- INSULATE ALL INDOOR SUPPLY AIR DUCTWORK (NEW & EXISTING) DUCTWORK WITH 1" THICK 0.75 LB/CFM MINERAL FIBER BLANKET DUCTWARM W/ VAPOR BARRIER & JACKET.
- DUCTLINE: 1" THICK AP ARMAFLEX WITH "MICROBAN" ANTIMICROBIAL PROTECTION
- PIPING SHALL BE RUN AS DIRECT AS POSSIBLE. PARALLEL TO & FORMING RIGHT ANGLES TO THE LINES OF THE BUILDING, SUPPORTED FROM THE STRUCTURE. FREE FROM COCKETS & SAGS & PITCHED TO LOW POINT DRAINS.
- LOCATE ALL VALVES FOR EASY ACCESS & OPERATION. DO NOT LOCATE VALVES WITHSTENS BELOW HORIZONTAL.

REV.	DESCRIPTION	DATE
1	RESUBMITTED	10.20.10
0	CONSTRUCTION DOCS	10.18.10

CONSTRUCTION DOCUMENTS  
10.18.10



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**MARTIN'S POINT HEALTH CARE  
NORTHPORT PLAZA HVAC  
RENOVATIONS**  
PORTLAND, ME

SHEET TITLE:	MECHANICAL LEGEND
WBRC CAD FILE:	3626.00 - M-001
PROJECT No.:	3626.00
SCALE:	AS NOTED
DATE:	AS NOTED
DRAWN BY:	CGH
CHECKED BY:	RLR
SHEET NO.:	M-001