

PIPING IDENTIFICATION

MECHANICAL EQUIPMENT ABBREVIATIONS LIST

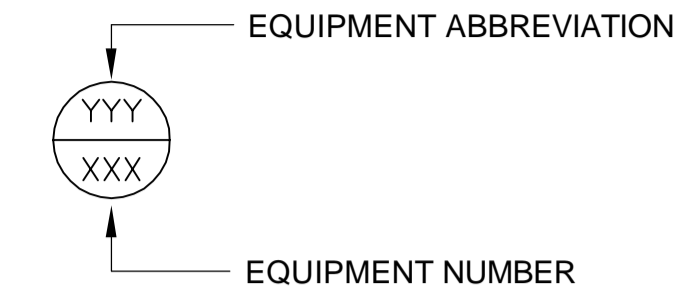
EQUIPMENT IDENTIFICATION

NOTES:

DESCRIPTION	LINE SYMBOL
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER RECIRC.	
SANITARY	
SANITARY (BURIED)	
SANITARY VENT	
STORM	
STORM (BURIED)	
COMPRESSED AIR	
COMPRESSED AIR (BURIED)	
REFRIGERANT RELIEF VENT	

DESCRIPTION	LINE SYMBOL
GLYCOL HEATING SUPPLY	
GLYCOL HEATING RETURN	
HOT WATER SUPPLY	
HOT WATER RETURN	
CHILLED WATER SUPPLY	
CHILLED WATER RETURN	
CONDENSER SUPPLY	
CONDENSER RETURN	

AS	AIR SEPARATOR	CH	CHILLER
BFP	BACK FLOW PREVENTOR	MUA	MAKE-UP AIR UNIT
DCW	DOMESTIC COLD WATER	P	PUMP
DHW	DOMESTIC HOT WATER	PHC	PREHEAT COIL
EF	EXHAUST FAN	SF	SUPPLY FAN
ET	EXPANSION TANK	UH	UNIT HEATER
FD	FLOOR DRAIN		
GFT	GLYCOL FILL TANK		
HP	HEAT PUMP		
HX	HEAT EXCHANGER		
HWT	HOT WATER TANK		



VALVE AND PIPE FITTING SYMBOLS

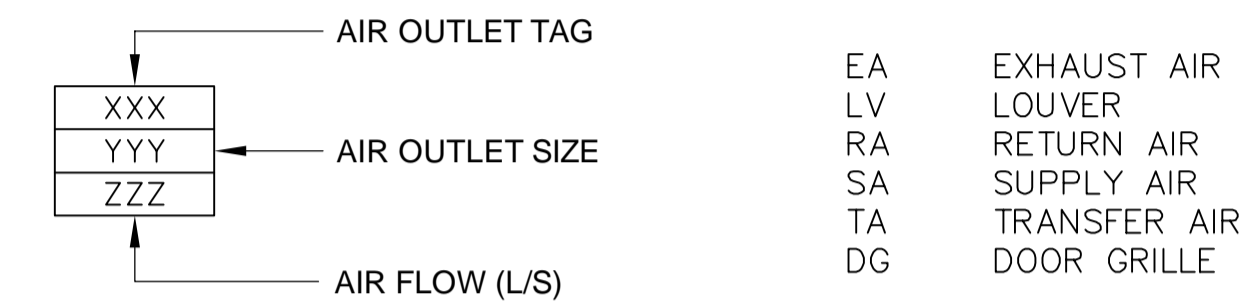
DESCRIPTION	TAG	SYMBOL
BALL (NO)	BA	
BALL (NC)	BA	
BUTTERFLY	BU	
PRESSURE REDUCING	PRV	
T&P SAFETY	SF	
REDUCED PRESSURE BFP		
TRIPLE DUTY VALVE	TDV	
2-WAY PNEUMATIC CONTROL VALVE	PCV	
3-WAY PNEUMATIC CONTROL VALVE	PCV	
CIRCUIT SETTER	CS	
SUCTION DIFFUSER	SD	
CHECK VALVE	CV	
AUTOMATIC FLOW CONTROL VALVE		

DESCRIPTION	SYMBOL
PIPE DROP	
PIPE RISER	
PIPE TEE DOWN	
FLOOR DRAIN	
FUNNEL FLOOR DRAIN	
HUB DRAIN	
ROOF DRAIN	
UNION	
FLANGE	
CLEANOUT	
CONCENTRIC REDUCER	
ECCENTRIC REDUCER	
STRAINER	
CAP	
FLOW DIRECTION	
AUTOMATIC AIR VENT	
MANUAL AIR VENT	
PRESSURE GAUGE	
THERMOMETER W/ WELL	

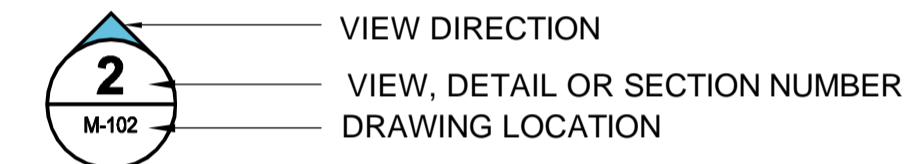
CONTROL SYMBOLS

DESCRIPTION	SYMBOL
THERMOSTAT	
TEMPERATURE TRANSMITTER	
MOTOR	
FLOW METER	

AIR OUTLET IDENTIFICATION



VIEW DIRECTION IDENTIFICATION



INSTRUMENT IDENTIFICATION TABLE

LETTER	FIRST LETTER (4)		READOUT OR PASSIVE FUNCTION	SUCCEEDING-LETTERS (3)	
	MEASURED OR INITIATING VARIABLE	MODIFIER		OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE (1)			CONTROL	
D	USER'S CHOICE (1)	DIFFERENTIAL			
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER CHOICE (1)		GLASS, VIEWING DEVICE		
H	HAND				H-HIGH-(ALARM) HH-HIGH-(SHUTDOWN)
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		L-LOW-(ALARM) LL-LOW-(SHUTDOWN)
M	MOTOR	MOMENTARY	START		MIDDLE, INTERMEDIATE
N	MOISTURE		STOP	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE (1)		ORIFICE, RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY, SOLENOID	SAFETY		SWITCH, OR SAFETY TRANSMIT	
T	TEMPERATURE			MULTIFUNCTION VALVE, DAMPER, LOUVRE	MULTIFUNCTION
U	MULTIVARIABLE		MULTIFUNCTION		
V	VIBRATION, MECHANICAL ANALYSIS				
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED		UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS			
Z	POSITION, DIMENSION	Z AXIS			

NOTES:

- (1) USER'S CHOICE - INTENDED TO COVER UNLISTED MEANINGS SPECIFIC TO A PROJECT
- (2) INSTRUMENT SYMBOLS AND IDENTIFICATION STANDARD, ISA-S5.1-1984



This drawing has been prepared for the use of AECOM's client and may not be used, reproduced or relied upon by third parties, except as agreed by AECOM and its client, as required by law or for use by governmental reviewing agencies. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from stated dimensions.

No.	REVISION/DESCRIPTION	BY	DATE
1	ISSUED FOR ADDENDUM 1	DL	2011.11.16
0	ISSUED FOR TENDER	GT	2011.11.03

SEAL

DRAWN	GT	CHECKED	DC	DESIGNED	DC	APPROVED	PVL
DATE	2011.09.02	USER APPROVAL					

THE CITY OF WINNIPEG  
PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT  
MUNICIPAL ACCOMMODATIONS DIVISION  
3-65 GARRY STREET, R3C 4K4

PROJECT  
ADMINISTRATION & COUNCIL BUILDING  
REPLACEMENT OF COOLING PLANT - 510 MAIN STREET  
BID OPPORTUNITY NO. 673-2011  
510 MAIN STREET, WINNIPEG, MANITOBA

SHEET TITLE

MECHANICAL  
LEGEND



DRN	CHK	DES	ENG	IDR

SCALE	PROJECT No:	SHEET No:
NTS	60220937	M-001