

PIPING IDENTIFICATION

DESCRIPTION	LINE SYMBOL	DESCRIPTION	LINE SYMBOL
DOMESTIC COLD WATER	—————	GLYCOL HEATING SUPPLY	————— GWS —————
DOMESTIC HOT WATER	—————	GLYCOL HEATING RETURN	————— GWR —————
DOMESTIC HOT WATER RECIRC.	—————	HOT WATER SUPPLY	————— HWS —————
		HOT WATER RETURN	————— HWR —————
SANITARY	————— S —————		
SANITARY (BURIED)	————— S —————		
SANITARY VENT	----- V -----	CHILLED WATER SUPPLY	————— CHWS —————
STORM	————— ST —————	CHILLED WATER RETURN	----- CHWR -----
STORM (BURIED)	————— ST —————	CONDENSER SUPPLY	————— CS —————
		CONDENSER RETURN	----- CR -----
COMPRESSED AIR	————— CA —————		
COMPRESSED AIR (BURIED)	----- CA -----		
REFRIGERANT RELIEF VENT	----- RV -----		

VALVE AND PIPE FITTING SYMBOLS

DESCRIPTION	TAG	SYMBOL	DESCRIPTION	SYMBOL
BALL	BA	IOI OR IΦI	PIPE DROP	—————
BUTTERFLY	BU		PIPE RISER	-----
			PIPE TEE DOWN	-----
PRESSURE REDUCING	PRV		FLOOR DRAIN	
			FUNNEL FLOOR DRAIN	
T&P SAFETY	SF		HUB DRAIN	
REDUCED PRESSURE BFP			ROOF DRAIN	
TRIPLE DUTY VALVE	TDV		UNION	-----
			FLANGE	-----
2-WAY PNEUMATIC CONTROL VALVE	PCV		CLEANOUT	
			CONCENTRIC REDUCER	-----
3-WAY PNEUMATIC CONTROL VALVE	PCV		ECCENTRIC REDUCER	-----
			STRAINER	
CIRCUIT SETTER	CS		CAP	-----
SUCTION DIFFUSER	SD		FLOW DIRECTION	
			AUTOMATIC AIR VENT	
CHECK VALVE	CV		MANUAL AIR VENT	
AUTOMATIC FLOW CONTROL VALVE				

DEMOLITION SYMBOLS

	DOUBLE LINED PIPING	SINGLE LINE PIPING	EQUIPMENT
TO BE REMOVED			
TO REMAIN			

DUCTWORK SYMBOLS

DESCRIPTION	UP	DOWN	DAMPERS	SYMBOL
ROUND DUCT			BALANCING DAMPER	
SUPPLY AIR			BACKDRAFT DAMPER	
RETURN AIR			FIRE DAMPER	
EXHAUST AIR			MOTORIZED DAMPER	
			FLEXIBLE DUCTWORK	
AIR FLOW DIRECTION		OR	ACOUSTICALLY LINED DUCTWORK	

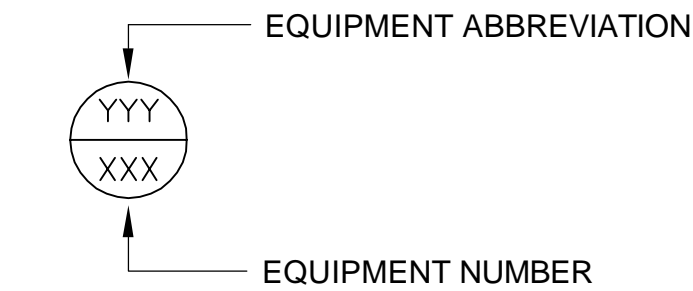
MECHANICAL EQUIPMENT ABBREVIATIONS LIST

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		

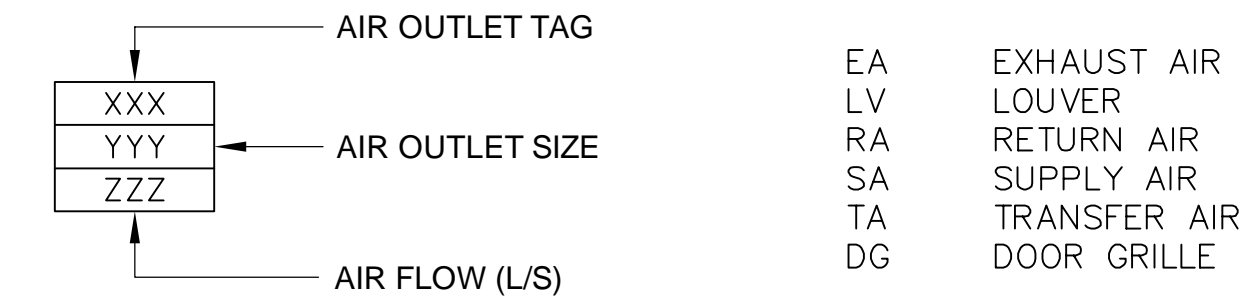
CONTROL SYMBOLS

DESCRIPTION	SYMBOL
THERMOSTAT	
TEMPERATURE TRANSMITTER	
MOTOR	
FLOW METER	

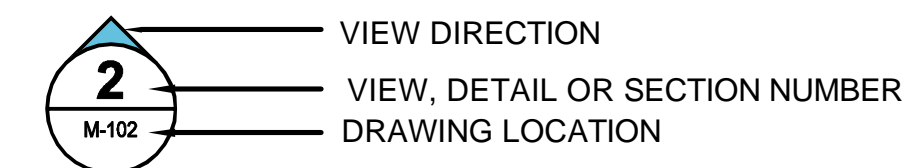
EQUIPMENT IDENTIFICATION



AIR OUTLET IDENTIFICATION



VIEW DIRECTION IDENTIFICATION



INSTRUMENT IDENTIFICATION TABLE

LETTER	FIRST LETTER (4)		SUCCEEDING-LETTERS (3)		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	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	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVRE	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED - FINAL CONTROL ELEMENT	

NOTES:

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

NOTES:

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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	GT	2011.11.03

SEAL

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

Winnipeg 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

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

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No. 4671 Date: _____

DRN	CHK	DES	ENG	IDR

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