

FILE NAME: 60280355-01-M-001-ROX.dwg
 DATE: 2012.12.14
 PROJECT No: 60280355
 SHEET TITLE: LEGENDS & ABBREVIATIONS
 ADDRESS: 219 PROVENCHER BOULEVARD

VALVE AND PIPE FITTING SYMBOLS

DESCRIPTION	TAG	SYMBOL	DESCRIPTION	SYMBOL
BALL	BA		PIPE DROP	
BUTTERFLY	BU		PIPE RISER	
PRESSURE REDUCING	PRV		PIPE TEE DOWN	
T&P SAFETY	SF		FLOOR DRAIN	
TRIPLE DUTY VALVE	TDV		FUNNEL FLOOR DRAIN	
2-WAY CONTROL VALVE	CV		HUB DRAIN	
2-WAY MOTORIZED CONTROL VALVE	MCV		ROOF DRAIN	
3-WAY MOTORIZED CONTROL VALVE	MCV		UNION	
CIRCUIT SETTER	CS		FLANGE	
SUCTION DIFFUSER	SD		CLEANOUT	
CHECK VALVE	CV		STRAINER	
CONCENTRIC REDUCER			CAP	
ECCENTRIC REDUCER			FLOW DIRECTION	
			AUTOMATIC AIR VENT	
			MANUAL AIR VENT	
			PRESSURE GAUGE	
			THERMOMETER W/ WELL	
			NEUTRALIZATION KIT	

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	
AIR FLOW DIRECTION			FLEXIBLE CONNECTOR	
			ACOUSTICALLY LINED DUCTWORK	

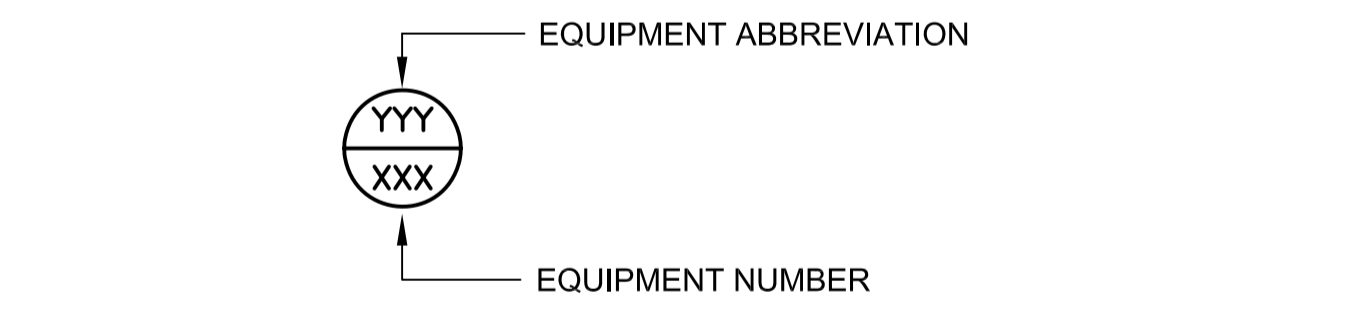
PIPING IDENTIFICATION

DESCRIPTION	LINE SYMBOL
GLYCOL HEATING SUPPLY	
GLYCOL HEATING RETURN	
HOT WATER SUPPLY	
HOT WATER RETURN	
NATURAL GAS	

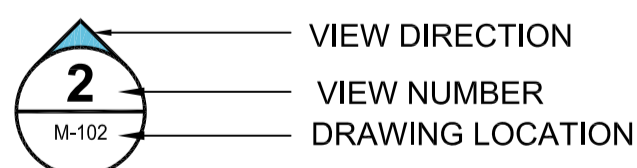
CONTROL SYMBOLS

DESCRIPTION	SYMBOL
THERMOSTAT	
HUMIDISTAT	
SWITCH	
TEMPERATURE SENSOR	
TEMPERATURE TRANSMITTER	
FREEZE STAT	
DISCONNECT SWITCH	
MOTOR	
ACTUATOR	
CURRENT SENSING RELAY	
PRESSURE SENSOR	
FLOW SWITCH	
LIMIT SWITCH	
SMOKE DETECTOR	
TEMPERATURE CONTROLLER	
DIFFERENTIAL PRESSURE	
CARBON MONOXIDE SENSOR	
BACK DRAFT DAMPER	
CARBON DIOXIDE SENSOR	
SCR ELECTRIC HEATING COIL	
LOW WATER CUT OFF DEVICE	
FLOAT-THERMOSTATIC STEAM TRAP	
INTERLOCK	
CONTROL WIRING BY DIVISION 23.	
CONTROL WIRING (LOW VOLTAGE) BY DIVISION 23.	
CONTROL WIRING (LINE VOLTAGE) BY DIVISION 23.	

EQUIPMENT IDENTIFICATION



VIEW DIRECTION IDENTIFICATION

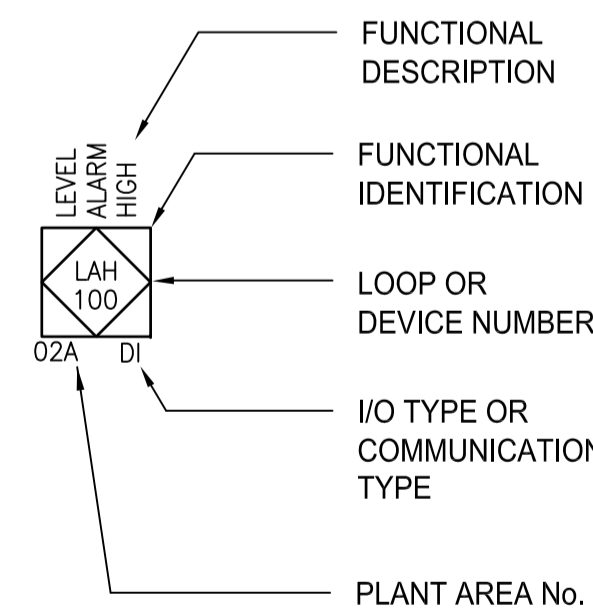


INSTRUMENT IDENTIFICATION TABLE

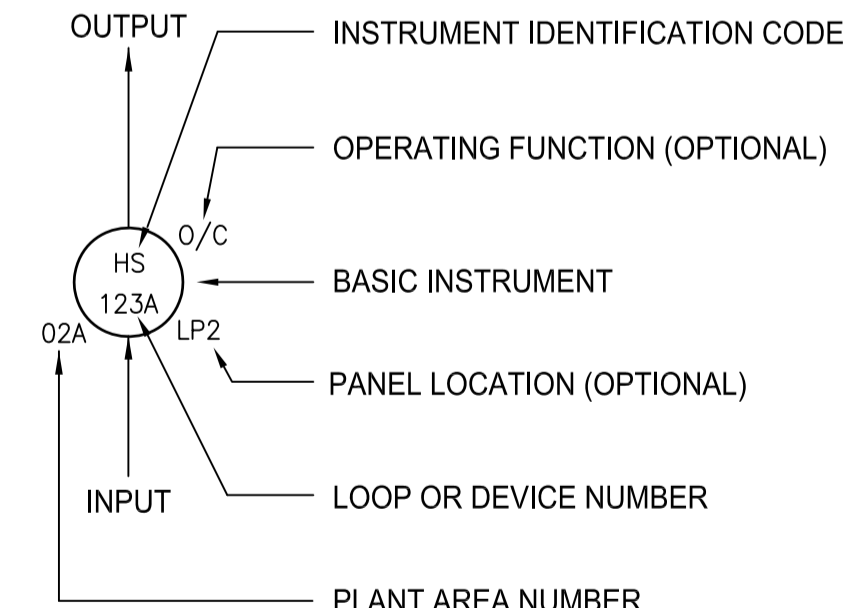
LETTER	FIRST LETTER (4)		SUCCEEDING-LETTERS (3)		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE (1)			CONTROL	
D	USER'S CHOICE (1)	DIFFERENTIAL			
E	VOLTAGE		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, VIBRATION, MECHANICAL ANALYSIS	SAFETY		SWITCH, OR SAFETY	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	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

DIGITAL POINT TAG NAMING IDENTIFICATION



TYPICAL INSTRUMENT FIELD DEVICE IDENTIFICATION



NOTES:



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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	DL	2012.12.14

DRAWN	DL	CHECKED	PVL	DESIGNED	DC	APPROVED
DATE	2012.11.02	USER				APPROVAL

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

PROJECT
 CIVIC OFFICES
 NEW BOILER INSTALLATION
 CITY BID OPP. NO: 886-2012
 219 PROVENCHER BOULEVARD, WINNIPEG, MANITOBA

SHEET TITLE
 MECHANICAL
 LEGENDS AND ABBREVIATIONS

SCALE	PROJECT No:	SHEET No:
AS SHOWN	60280355	M-001