

GENERAL	
SYMBOL	DESCRIPTION
	SUPPLY AIR (DOWN)
	RETURN AIR (DOWN)
	EXHAUST AIR (DOWN)
	OUTDOOR AIR (DOWN)
	SUPPLY AIR (UP)
	RETURN AIR (UP)
	EXHAUST AIR (UP)
	OUTDOOR AIR (UP)
	FIRE DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	BALANCING DAMPER
	DUCT FLEXIBLE CONNECTION
	DUCT c/w ACOUSTIC INSULATION
	AIR FLOW DIRECTION
	PROPELLER FAN

MECHANICAL EQUIPMENT	
ABBREVIATIONS	DESCRIPTION
AF	AIR FILTER
AHU	AIR HANDLING UNIT
CC	COOLING COIL
CCU	COOLED CONDENSING UNIT
CU	CONDENSATE UNIT
DFS	DIESEL FUEL SUPPLY
DFR	DIESEL FUEL RETURN
DX	DIRECT EXPANSION COIL
EA	EXHAUST AIR
EF	EXHAUST FAN
FE	FIRE EXTINGUISHER
GRH	GRAVITY HOOD
HT	HEAT TAPE
LV	LOUVER
MUA	MAKE-UP AIR UNIT
MD	MOTORIZED DAMPER
OA	OUTSIDE AIR
P	PUMP
PS	PRESSURE SENSOR
PTS	PIPING TRANSITION SUMP
RA	RETURN AIR
RCR	REFRIGERATION COMPRESSOR RECIPROCATING
RCS	REFRIGERATION COMPRESSOR SCREW
RF	RETURN FAN
SA	SUPPLY AIR
SF	SUPPLY FAN
SMP	SUMP PUMP
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE

PLUMBING FIXTURES	
ABBREVIATIONS	DESCRIPTION
EEW	EMERGENCY EYE WASH
ES	EMERGENCY SHOWER
FD	FLOOR DRAIN
WH	WALL HYDRANT

VALVES SYMBOLS	
SYMBOL	DESCRIPTION
	SOLENOID VALVE
	THREE WAY CONTROL VALVE
	BALL VALVE (NORMALLY OPEN)
	BALL VALVE (NORMALLY CLOSED)
	BALANCING VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	GATE VALVE (NORMALLY OPEN)
	GATE VALVE (NORMALLY CLOSED)
	CHECK VALVE
	RELIEF
	CONCENTRIC REDUCER

CONTROL SYMBOLS	
SYMBOL	DESCRIPTION
	HUMIDISTAT
	MOTOR
	STATIC PRESSURE
	THERMOSTAT
	TEMPERATURE TRANSMITTER
	SWITCH/WIND-UP TIMER
	BACK DRAFT DAMPER
	CARBON MONOXIDE SENSOR
	CURRENT SENSING RELAY
	DIRECT INTERLOCK TO STARTER
	FLOW SWITCH
	FREEZE STAT
	LIMIT SWITCH
	ACTUATOR
	PRESSURE SENSOR
	PRESSURE SWITCH
	TEMPERATURE SENSOR
	TEMPERATURE TRANSMITTER
	CURRENT SENSING RELAY
	INTERLOCK
	CONTROL WIRING BY DIVISION 15
	DISCONNECT SWITCH
	PLC FUNCTION: AI = ANALOG INPUT AO = ANALOG OUTPUT DI = DIGITAL INPUT DO = DIGITAL OUTPUT
	DISCRETE INSTRUMENTS FIELD MOUNTED

PLUMBING & DRAINAGE	
SYMBOL	DESCRIPTION
	FLOOR DRAIN (TYPE, TRAP, PRIMED)
	TRENCH DRAIN
	ROOF DRAIN
	HOSE BIBB
	NON - FREEZE HOSE BIBB
	CLEANOUT ABOVE GRADE
	CLEANOUT BELOW GRADE
	P-TRAP
	RUNNING TRAP WITH CLEANOUT
	"T" CONNECTION
	TRAP PRIMING DEVICE

FIRE PROTECTION EQUIPMENT	
SYMBOL	DESCRIPTION
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	SIDE WALL SPRINKLER HEAD
	DRY SPRINKLER HEAD
	FIRE HOSE CABINET
	FIRE DEPARTMENT CONNECTION
	FIRE EXTINGUISHER

PIPING IDENTIFICATION	
SYMBOL	DESCRIPTION
	DIESEL FUEL SUPPLY
	DIESEL FUEL RETURN
	HOT GAS REFRIGERATION
	NATURAL GAS
	REFRIGERANT SUCTION
	REFRIGERANT LIQUID
	SANITARY LINE
	SANITARY LINE (BURIED)
	STORM
	STORM (BURIED)
	SANITARY VENT
	PIPE DROP
	PIPE RISE
	PIPE TEE DOWN

GRILLE AND DIFFUSER TAG							
TYPE & NO. OF GRILLES	<table border="1"> <tr><td>-</td><td>TYPE</td></tr> <tr><td>(mm)</td><td>SIZE</td></tr> <tr><td>(l/s)</td><td>CAPACITY</td></tr> </table>	-	TYPE	(mm)	SIZE	(l/s)	CAPACITY
-	TYPE						
(mm)	SIZE						
(l/s)	CAPACITY						



B.M. ELEV.					
00	ISSUED FOR TENDER	06/08/28	LJW		
NO.	REVISIONS	DATE	BY	DATE	2005/07/27



ENGINEER'S SEAL	
DESIGNED BY	PT/PT
CHECKED BY	AMA, PVL
DRAWN BY	LAE
APPROVED BY	AHL
SCALE:	NONE
RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
DATE	2006/08/30

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT
STANDBY POWER GENERATOR

MECHANICAL
LEGEND AND SYMBOLS

CITY FILE NUMBER
SHEET OF

CITY DRAWING NUMBER
1-0601G-D-H0001-001-000