

GENERAL	
SYMBOL	DESCRIPTION
	SUPPLY AIR (DOWN)
	RETURN AIR (DOWN)
	EXHAUST AIR (DOWN)
	TRANSFER AIR (DOWN)
	OUTDOOR AIR (DOWN)
	SUPPLY AIR (UP)
	RETURN AIR (UP)
	EXHAUST AIR (UP)
	TRANSFER AIR (UP)
	OUTDOOR AIR (UP)
	FIRE DAMPER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	BALANCING DAMPER
	DUCT FLEXIBLE CONNECTION
	FIN TUBE RADIATION
	RADIATION PANEL
	DUCT c/w ACOUSTIC INSULATION
	R/A, E/A FLOW DIRECTION
	S/A FLOW DIRECTION
	AXIAL FAN
	CENTRIFUGAL FAN
	CENTRIFUGAL PUMP
	TURNING VANES
	AIR SEPARATOR (SECTION)
	FLEXIBLE HOSE
	PRE-HEAT COIL
	HEATING COIL
	SHELL AND TUBE HEAT EXCHANGER
	TUBULAR BACKWASH FILTER

PROCESS PIPING	
SYMBOL	DESCRIPTION
	UNION
	FLANGED CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAP

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

CONTROL SYMBOLS	
SYMBOL	DESCRIPTION
	THERMOSTAT
	THERMOSTAT REVERSE ACTING
	HUMIDISTAT
	HUMIDISTAT REVERSE ACTING
	SWITCH
	TEMPERATURE TRANSMITTER
	FREEZE STAT
	DISCONNECT SWITCH
	MOTOR
	MOTOR ACTUATOR
	ADJUSTABLE FREQUENCY DRIVE
	CURRENT SENSING RELAY
	PRESSURE SENSOR
	FLOW SWITCH
	LIMIT SWITCH
	SMOKE DETECTOR
	CARBON MONOXIDE SENSOR
	BACK DRAFT DAMPER
	INTERLOCK
	THREE PHASE WIRING
	SINGLE PHASE WIRING
	CONTROL WIRING
	LOW WATER CUT-OFF

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 (10 kg)

VALVES AND PIPING SYMBOLS	
SYMBOL	DESCRIPTION
	SOLENOID VALVE
	GATE VALVE (NORMALLY OPEN)
	GATE VALVE (NORMALLY CLOSED)
	PLUG VALVE (NORMALLY OPEN)
	PLUG VALVE (NORMALLY CLOSED)
	BALL VALVE (NORMALLY OPEN)
	BALL VALVE (NORMALLY CLOSED)
	BUTTERFLY VALVE
	GLOBE VALVE
	DOUBLE LEAF CHECK VALVE
	CHECK VALVE
	BALL CHECK VALVE
	CIRCUIT BALANCING VALVE
	THERMOSTATICALLY CONTROLLED VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	DOUBLE CHECK VALVE BACKFLOW PREVENTER
	CONTROL VALVE
	PRESSURE REGULATOR
	SELF REGULATING CONTROL VALVE
	THREE WAY CONTROL VALVE
	SAFETY RELIEF VALVE
	SUCTION DIFFUSER
	FOOT VALVE
	STRAINER
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PRESSURE GAUGE
	THERMOMETER W/ WELL
	GAS COCK

PIPING IDENTIFICATION	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER SUPPLY
	DOMESTIC HOT WATER SUPPLY
	DOMESTIC HOT WATER RECIRC.
	SANITARY LINE
	SANITARY LINE (BURIED)
	SANITARY VENT
	PUMPED SANITARY
	STORM
	STORM (BURIED)
	FLUSHING WATER
	SERVICE AIR
	POTABLE WATER
	COMPRESSED AIR
	COMPRESSED AIR (BURIED)
	GLYCOL HEATING SUPPLY
	GLYCOL HEATING RETURN
	CHILLED GLYCOL SUPPLY
	CHILLED GLYCOL RETURN
	NATURAL GAS
	VACUUM
	HOT WATER SUPPLY
	HOT WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	REFRIGERANT SUCTION
	REFRIGERANT DISCHARGE
	PUMPED CONDENSATE
	BOILER BLOWDOWN
	MAKE-UP WATER
	EXPANSION TANK EQUALIZER LINE
	RAIN WATER LEADER
	PIPE DROP
	PIPE RISE
	PIPE TEE DOWN
	PIPE TEE UP
	FLOW DIRECTION

GAS VALVE TRAIN	
SYMBOL	DESCRIPTION
	PILOT MANUAL SHUT-OFF VALVE
	PILOT BURNER AUTOMATIC SAFETY SHUT-OFF VALVE
	PILOT BURNER GAS PRESSURE REGULATOR
	PRESSURE TEST POINT
	MAIN BURNER TEST FIRING VALVE
	MAIN BURNER AUTOMATIC SAFETY SHUT-OFF VALVE
	GAS INPUT FLOW CONTROL VALVE
	MAIN BURNER AUTOMATIC SAFETY SHUT-OFF VALVE
	MAIN BURNER GAS PRESSURE REGULATOR
	GAS OVER-PRESSURE RELIEF VALVE

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Certificate of Authorization
Alliance Engineering Services Inc.
No.2906 Date: _____

B.M. ELEV.	N/A	FIELD BOOK #:	
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DESIGNED BY	DD	CHECKED BY	
DRAWN BY	DD	APPROVED BY	
HOR. SCALE	1:50	RELEASED FOR CONSTRUCTION	
VERTICAL	1:50		
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ALLIANCE
Engineering Services Inc.

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
LL2.1

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

2010 HVAC REPLACEMENT
AND ASSOCIATED WORKS
WEWPCC
GENERAL AREA
LEGEND SHEET 1 OF 2

SHEET 1 OF 1
CITY DRAWING NUMBER
1-0103A-P0007-001