

MECHANICAL EQUIPMENT ABBREVIATIONS LIST			
AC	AIR COMPRESSOR	LV	LAVATORY
AD	AIR DRYER	MS	MOP SINK/SERVICE SINK
AF	AIR FILTER	MV	TEMPERING VALVE/THERMOSTATIC MIXING VALVE
AHU	AIR HANDLING UNIT	PP	FLUSHING WATER PUMP
AS	AIR SEPARATOR	PT	PRESSURE TANK
BFP	BACK FLOW PREVENTOR	NC	NORMALLY CLOSED
CC	COOLING COIL	NO	NORMALLY OPEN
DCW	DOMESTIC COLD WATER	RF	RETURN FAN
DHW	DOMESTIC HOT WATER	RD	ROOF DRAIN
EF	EXHAUST FAN	RHC	REHEAT COIL
ET	EXPANSION TANK	SF	SUPPLY FAN
EW	EMERGENCY STATION	SP	SET POINT
FD	FLOOR DRAIN	VFD	VARIABLE FREQUENCY DRIVE
GFT	GLYCOL FILL TANK	WC	WATER CLOSET
HC	HEATING COIL		
HP	HEAT PUMP		
HR	HOSE REEL STATION		
HX	HEAT EXCHANGER		
HWT	HOT WATER TANK		

EQUIPMENT IDENTIFICATION	
<p>W : LOCATION IDENTIFIER - 1 LETTER XXX : PROCESS STREAM IDENTIFIER - 3 NUMBERS YYYY : EQUIPMENT DESIGNATION - 1 TO 4 LETTER ABBREVIATION ZZZ : SERIES NUMBER - 0 TO 3 NUMBERS AND/OR LETTERS</p>	

PIPING IDENTIFICATION			
DESCRIPTION	LINE SYMBOL	DESCRIPTION	LINE SYMBOL
DOMESTIC COLD WATER		GLYCOL HEATING SUPPLY	
DOMESTIC HOT WATER		GLYCOL HEATING RETURN	
DOMESTIC HOT WATER RECIRC.		CHILLED GLYCOL SUPPLY	
SANITARY		CHILLED GLYCOL RETURN	
SANITARY (BURIED)		CONDENSER GLYCOL SUPPLY	
SANITARY VENT		CONDENSER GLYCOL RETURN	
STORM		EFFLUENT SUPPLY	
STORM (BURIED)		EFFLUENT RETURN	
COMPRESSED AIR			
COMPRESSED AIR (BURIED)			
GAS LINE			

PIPE IDENTIFICATION	
XX	PIPE OR TUBE SPECIFICATION
XXX	COMMODITY
XXXX	PIPE OR TUBE SIZE

VALVE AND PIPE FITTING SYMBOLS			
DESCRIPTION	TAG	SYMBOL	DESCRIPTION
BALL	BA		PIPE DROP
BUTTERFLY	BU		PIPE RISER
PRESSURE REDUCING	PRV		PIPE TEE DOWN
T&P SAFETY	SF		FLOOR DRAIN
REDUCED PRESSURE BFP			FUNNEL FLOOR DRAIN
2-WAY CONTROL VALVE	CV		HUB DRAIN
CIRCUIT SETTER	CS		ROOF DRAIN
SUCTION DIFFUSER	SD		UNION
FOOT VALVE	FV		FLANGE
CHECK VALVE	CV		CLEANOUT
			CONCENTRIC REDUCER
			ECCENTRIC REDUCER
			STRAINER
			CAP
			FLOW DIRECTION
			AUTOMATIC AIR VENT
			MANUAL AIR VENT
			PRESSURE GAUGE
			THERMOMETER W/ WELL
			HOSE BIBB

CONTROL SYMBOLS	
DESCRIPTION	SYMBOL
THERMOSTAT	
THERMOSTAT REVERSE ACTING	
HUMIDISTAT	
HUMIDISTAT REVERSE ACTING	
SWITCH	
TEMPERATURE SENSOR	
TEMPERATURE TRANSMITTER	
FREEZE STAT	
DISCONNECT SWITCH	
MOTOR	
ACTUATOR	
CURRENT SENSING RELAY	
PRESSURE SENSOR	
FLOW SWITCH	
LIMIT SWITCH	
SMOKE DETECTOR	
CARBON MONOXIDE SENSOR	
BACK DRAFT DAMPER	
INTERLOCK	
THREE PHASE WIRING BY OTHERS (N.I.C.)	DENOTES NUMBER OF WIRES REQUIRED
SINGLE PHASE WIRING BY DIVISION 16.	
CONTROL WIRING BY DIVISION 15.	
CONTROL WIRING (LOW VOLTAGE)	
CONTROL WIRING (LINE VOLTAGE)	
LOW WATER CUT OFF DEVICE	

COMPONENT IDENTIFICATION	
YYY	EQUIPMENT ABBREVIATION
ZZZ	EQUIPMENT NUMBER

AIR OUTLET IDENTIFICATION	
XXX	AIR OUTLET TAG
YYY	AIR OUTLET SIZE (mm)
ZZZ	AIR FLOW (L/S)

EA	EXHAUST GRILLE
LV	LOUVER
OA	OUTSIDE AIR
RA	RETURN GRILLE
SA	SUPPLY GRILLE
TG	TRANSFER GRILLE
DG	DOOR GRILLE

EQUIPMENT SYMBOLS			
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
FAN		INLINE PUMP	
PUMP		AIR SEPARATOR	
		PLAN	
		SCHEMATIC	

FIRE PROTECTION EQUIPMENT ABBREVIATIONS & SYMBOLS	
FE	FIRE EXTINGUISHER

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



B.M. ELEV.			
DESIGNED BY	DC	CHECKED BY	AA
DRAWN BY	LJW	APPROVED BY	D. TANIGUCHI
SCALE:	NTS	RELEASED FOR CONSTRUCTION BY:	K. MARTENS
NO.	ISSUED FOR TENDER	DATE	05/12/02
NO.	REVISIONS	DATE	05/09/21

EarthTech
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ENGINEER'S SEAL

ORIGINAL SIGNED BY
P. TATARYN
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CONSULTANT DRAWING NO.
CM0.01

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

NEWPCC CENTRATE NUTRIENT TREATMENT
PHOSPHORUS REMOVAL FACILITY
CONTRACT No. 1

CITY FILE NUMBER
SHEET OF

CITY DRAWING NUMBER
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