SHEET: COW-A1 (03/2005)

CONTROL SYMBOLS

DESCRIPTION	SYMBOL
THERMOSTAT	T
HUMIDISTAT	H
SWITCH	$
TEMPERATURE SENSOR	T
TEMPERATURE TRANSMITTER	
FREEZE STAT	
DISCONNECT SWITCH	
MOTOR	
ACTUATOR	
CURRENT SENSING RELAY	
PRESSURE SENSOR	
FLOW SWITCH	FS
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	LWCO

EQUIPMENT IDENTIFICATION

W -XXX-YYYY-ZZZ (AIR HANDLING EQUIPMENT)

- SERIES NUMBER – 0 TO 3 NUMBERS AND/OR LETTERS
- EQUIPMENT DESIGNATION – 2 TO 4 LETTER ABBREVIATION
- PROCESS STREAM IDENTIFIER – 3 NUMBERS
- LOCATION IDENTIFIER – 1 LETTER

X -YYY-ZZZZ

- EQUIPMENT DESIGNATION – 2 TO 4 LETTER ABBREVIATION
- PROCESS STREAM IDENTIFIER – 3 NUMBERS
- LOCATION IDENTIFIER – 1 LETTER

PIPE IDENTIFICATION

- - -

- PIPE OR TUBE SPECIFICATION
- COMMODITY
- PIPE OR TUBE SIZE

EQUIPMENT IDENTIFICATION

- EQUIPMENT ABBREVIATION
- YYY / XXX
- EQUIPMENT NUMBER

AIR OUTLET IDENTIFICATION

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

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

EQUIPMENT SYMBOLS

DESCRIPTION	SYMBOL
FAN	
PUMP	

DESCRIPTION	SYMBOL
INLINE PUMP	
AIR SEPERATOR	PLAN / SCHEMATIC

FIRE PROTECTION EQUIPMENT ABBREVIATIONS & SYMBOLS

FE FIRE EXTINGUISHER

FIRE EXTINGUISHER

PIPING IDENTIFICATION

DESCRIPTION	LINE SYMBOL
DOMESTIC COLD WATER	
DOMESTIC HOT WATER	
DOMESTIC HOT WATER RECIRC.	
SANITARY	S
SANITARY (BURIED)	S
SANITARY VENT	V
STORM	ST
STORM (BURIED)	ST
COMPRESSED AIR	CA
COMPRESSED AIR (BURIED)	CA

DESCRIPTION	LINE SYMBOL
GLYCOL HEATING SUPPLY	GHS
GLYCOL HEATING RETURN	GHR
CHILLED GLYCOL SUPPLY	CHGS
CHILLED GLYCOL RETURN	CHGR
CONDENSER GLYCOL SUPPLY	CGS
CONDENSER GLYCOL RETURN	CGR
EFFLUENT SUPPLY	ES
EFFLUENT RETURN	ER

VALVE AND PIPE FITTING SYMBOLS

DESCRIPTION	TAG	SYMBOL
BALL	BA	OR
BUTTERFLY	BU	
PRESSURE REDUCING	PRV	
T&P SAFETY	SF	
REDUCED PRESSURE BFP		
2-WAY CONTROL VALVE	CV	
CIRCUIT SETTER	CS	
SUCTION DIFFUSER	SD	
FOOT VALVE	FV	
CHECK VALVE	CV	

DESCRIPTION	SYMBOL
PIPE DROP	
PIPE RISER	
PIPE TEE DOWN	
FLOOR DRAIN	
FUNNEL FLOOR DRAIN	
HUB DRAIN	
ROOF DRAIN	
UNION	
FLANGE	
CLEANOUT	
CONCENTRIC REDUCER	
ECENTRIC REDUCER	
STRAINER	
CAP	
FLOW DIRECTION	
AUTOMATIC AIR VENT	AAV
MANUAL AIR VENT	MAV
PRESSURE GAUGE	
THERMOMETER W/ WELL	

DUCTWORK SYMBOLS

DESCRIPTION	UP	DOWN
ROUND DUCT		
SUPPLY AIR		
RETURN AIR		
EXHAUST AIR		

AIR FLOW DIRECTION OR

DAMPERS	SYMBOL
FIRE DAMPER	F
BALANCING DAMPER	
BACKDRAFT DAMPER	B
MOTORIZED DAMPER	M
FLEXIBLE DUCTWORK	
ACOUSTICALLY LINED DUCTWORK	
TURNING VANES IN DUCTWORK	

FOR INFORMATION ONLY - NOT IN CONTRACT

(EXCEPT AS NOTED)

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
00	ISSUED FOR TENDER (N.I.C.)	05/04/17	DC

CH2MHILL
Frederickson Cooper ARCHITECTS
EarthTech A Tyco International Ltd. Company

DESIGNED BY	DC	CHECKED BY	
DRAWN BY	DC	APPROVED BY	
HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION BY:	
VERTICAL SCALE:	N.T.S.		
DATE	2005/03/31	DATE	

ENGINEER'S SEAL

CONSULTANT DRAWING NO.
WT-M001

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT CLEARWELL CONSTRUCTION

MECHANICAL LEGEND

CITY FILE NUMBER
SHEET OF
CITY DRAWING NUMBER