SHEET: COW-A1 (05/2005)

ELECTRICAL SYMBOL LEGEND

LIGHTING

FLUORESCENT LUMINAIRE – SURFACE OR SUSPENDED	LTG_SURF
FLUORESCENT LUMINAIRE – RECESSED	LTG_REC
FLUORESCENT EMERGENCY LUMINAIRE –SURFACE OR SUSPENDED	LTG_S_E
FLUORESCENT RECESSED EMERGENCY LUMINAIRE –RECESSED	LTG_R_E
FLUORESCENT LUMINAIRE – WALL MOUNTED	LTG_SURF
FLUORESCENT STRIPLIGHT LUMINAIRE	LTG_STP
CEILING POT OR HID LUMINAIRE – SURFACE OR SUSPENDED	SPOT
CEILING POT OR HID LUMINAIRE – EMERGENCY – SURFACE OR SUSPENDED	SPOT_E
RECESSED POT OR HID LUMINAIRE – RECESSED	R_POT
RECESSED POT OR HID LUMINAIRE – EMERGENCY – RECESSED	R_POT_E
WALL SCONCE OR HID LUMINAIRE	W_POT
WALL SCONCE OR HID LUMINAIRE – EMERGENCY	W_POT_E
TRACK LIGHT	TRACK_LT
POLE MOUNTED LUMINAIRE	POLE_HID
POLE MOUNTED LUMINAIRE – DOUBLE HEADS	POLE_HID_2
CEILING MOUNTED EXIT LIGHT – ARROWS AS REQUIRED	EXIT_C
WALL MOUNTED EXIT LIGHT – ARROWS AS REQUIRED	EXIT_W
BATTERY PACK C/W HEADS AS INDICATED	BAT_PACK
WALL MOUNTED EMERGENCY REMOTE HEADS	REM_HEAD
CEILING MOUNTED EMERGENCY REMOTE HEADS	REM_HD_C
OCS OCCUPANCY SENSOR	OC_SENSOR
PC PHOTO ELECTRIC CELL	PC
TC TIME CLOCK	TC
NL NIGHT LIGHT	
101 LUMINAIRE TYPE	LUM_TYPE
3 SINGLE POLE SWITCH (USE TORIENT COMMAND TO STRAITEN ATTRIBUTES)	SW_SP

WALL SWITCH:
3 – THREE WAY
4 – FOUR WAY
D – DIMMER
EX– EXPLOSION PROOF
K – KEY OPERATED
LV– LOW VOLTAGE
M – MOTOR RATED
PL– PILOT LIGHT
WP– WEATHER PROOF

CONDUIT AND WIRE

CONDUIT STUB	
HOME RUN	
VERTICAL LEVEL CHANGE (PLAN) OR RECEDING CONDUIT (ELEVATION)	
CONDUIT FITTING	
CONDUIT BREATHER/DRAIN	
CONDUIT SEAL	
CONDUIT DRAIN SEAL	
CONDUIT CAP	
CONDUIT	
OVERHEAD POWER LINES	
CONDUIT UNDERGROUND OR CONCEALED	
E.C. EMPTY CONDUIT	
GROUND ROD C/W WELL	
GROUND ROD WITHOUT WELL	

POWER

DUPLEX RECEPTACLE	REC_
CEILING MOUNTED RECEPTACLE	REC_C
SINGLE RECEPTACLE	REC_SGL
FOUR–PLEX RECEPTACLE	REC_4PLX
ISOLATED GROUND RECEPTACLE	REC_IG
SPLIT–FEED RECEPTACLE	REC_SPLT
GROUND FAULT RECEPTACLE	REC_GF
SPECIAL 120V RECEPTACLE	REC_120
SPECIAL 208V 1ø RECEPTACLE	REC_2_1P
SPECIAL 208V 3ø RECEPTACLE	REC_2_3P
SPECIAL 347V RECEPTACLE	REC_347
SPECIAL 600V RECEPTACLE	REC_600
SPECIAL RECEPTACLE	REC_SPE
SPECIAL RECEPTACLE – MOUNTED ABOVE COUNTER	REC_SPAC
DUPLEX RECEPTACLE – MOUNTED ABOVE COUNTER	REC_AC
SPLIT–FEED RECEPTACLE – MOUNTED ABOVE COUNTER	REC_SAC
GROUND FAULT RECEPTACLE – MOUNTED ABOVE COUNTER	REC_GFAC
FLOOR MOUNTED DUPLEX RECEPTACLE	REC_FL
FLOOR MOUNTED FOUR–PLEX RECEPTACLE	REC_FL4P
FLOOR MOUNTED SPECIAL RECEPTACLE	REC_FLSP
DIRECT CONNECTION	REC_DIR
SPLIT–FEED CAR POST C/W RECEPTACLE	REC_POST
EQUAL POTENTIAL GROUND RECEPTACLE	REC_PG
ISOLATED GROUND FOUR–PLEX RECEPTACLE	REC_4IG
ISOLATED/EQUAL POTENTIAL GROUND RECEPTACLE	REC_IGPG
POWER/TELECOM – PACPOLE	PACPOLE
MOTOR	MOTOR
DISCONNECT SWITCH	DISCSW
FUSED DISCONNECT SWITCH	DISCSW_FUSE
MAGNETIC MOTOR STARTER	MAGSTR
COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER	COMBSTR
MP MANUAL MOTOR STARTER C/W PILOT LIGHT	SW_MP
WALL MOUNTED CLOCK OUTLET ONLY	CLK_W
WALL MOUNTED SINGLE FACE CLOCK	CLK_1F
WALL MOUNTED DOUBLE FACE CLOCK	CLK_2F
CEILING MOUNTED CLOCK OUTLET ONLY	CLK_C
CEILING MOUNTED SINGLE FACE CLOCK	CLK_1FC
CEILING MOUNTED DOUBLE FACE CLOCK	CLK_2FC
B BELL	BELL
PUSHBUTTON	PBUTTON
START–STOP PUSHBUTTON	START_STOP
BUZZER	BUZZER
H HORN	HORN
KILL SWITCH/EMERGENCY STOP	SW_KILL
PANEL BOARD – SURFACE MOUNTED	PNL_PWR
MISC. PANEL BOARD – FLUSH MOUNTED	PNL_MISC
MISC. PANEL BOARD – SURFACE MOUNTED	PNL_MISC_SURF
T THERMOSTAT	THERMOSTAT
J WALL MOUNTED JUNCTION BOX	JBO_W
J CEILING MOUNTED JUNCTION BOX	JB
J FLOOR MOUNTED JUNCTION BOX	JB_FL
WP WEATHER PROOF	
GF GROUND FAULT	
A.F.F. ABOVE FINISHED FLOOR	
P SYSTEM FURNITURE – POWER DIRECT CONNECTION	P_DIRECT_POLE

FIRE ALARM

F MANUAL PULL STATION	FA_PULL
F BELL C/W VISUAL ALARM LIGHT	FA_STROBE
F WALL MOUNTED HORN	FA_HORN
F WALL MOUNTED HORN/STROBE	FA_HORN_STR
F WALL MOUNTED BELL	FA_BELL
F WALL MOUNTED BELL/STROBE	FA_BELL_STR
H CEILING MOUNTED HORN	FA_HORN_C
F SMOKE DETECTOR	FA_SMOKE
RATE OF RISE THERMAL DETECTOR	FA_ROR
FIXED TEMPERATURE THERMAL DETECTOR	FA_FIXHT
R DUCT MOUNTED SMOKE DETECTOR	FA_DUCT
R END OF LINE RESISTOR	FA_EOL
FS SPRINKLER FLOW SWITCH	FA_FSW
PS SPRINKLER PRESSURE SWITCH	FA_PSW
VM SPRINKLER VALVE MONITOR	FA_VALVE
CM CONTROL MODULE	FA_CONTROL
SV SOLENOID VALVE	S_VALVE
FIRE PHONE	FA_PHONE
F FIRE ALARM SPEAKER	FA_SPKR

COMMUNICATION

VOICE OUTLET	TEL
DATA OUTLET	DATA
VOICE/DATA OUTLET	COM_DATA
FLOOR MOUNTED VOICE/DATA OUTLET	COM_DATA_FL
TELEVISION OUTLET	TV
S SPEAKER	SPKR
+1525 MOUNTING HEIGHT A.F.F. (mm)	

SECURITY

CR CARD READER	CARDREADER
DS DOOR POSITION SWITCH	DOORSW
EE ELECTRIC EYE	ELEC_EYE
ES ELECTRIC DOOR STRIKE	ELEC_DOOR_ST
M MAGNETIC DOOR LOCK	MAG_DOOR_LK
MD MOTION DETECTOR	MOT_DET
EX DOOR EXIT RELEASE PUSHBUTTON	EXIT_PB
M MAGNETIC DOOR HOLD OPEN	DOOR_HOLDOPEN

LIGHTNING PROTECTION

BARE COPPER CONDUCTOR BURIED AS REQUIRED BELOW GRADE.	
SURGE ARRESTOR (GAP TYPE)	SURGE ARRESTOR
GROUNDING ROD	GROUND

FOR INFORMATION ONLY - NOT IN CONTRACT

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
01	REVISED	05/10/28	CPG
00	ISSUED FOR TENDER	05/04/17	ERC

CH2MHILL
Frederickson Cooper ARCHITECTS
EarthTech A Tyco International Ltd. Company

DESIGNED BY	PS	CHECKED BY	CPG
DRAWN BY	CPG	APPROVED BY	
SCALE:	NTS NTS	RELEASED FOR CONSTRUCTION BY:	
DATE	2005/07/26	DATE	

ENGINEER'S SEAL

PRELIMINARY
NOT FOR CONSTRUCTION

CONSULTANT DRAWING NO.
WM–E0011

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

WATER TREATMENT PLANT

CITY FILE NUMBER

SHEET 2 OF 2

ELECTRICAL SYMBOLS LEGEND

CITY DRAWING NUMBER

PRELIMINARY NOT FOR CONSTRUCTION