

## 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
	OCCUPANCY SENSOR	OC_SENSOR
	PHOTO ELECTRIC CELL	PC
	TIME CLOCK	TC
	NIGHT LIGHT	NL
	LUMINAIRE TYPE	LUM_TYPE
	SINGLE POLE SWITCH (USE TORIENT COMMAND TO STRAITEN ATTRIBUTES)	SW_SP

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

### 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
	120V RECEPTACLE (UPS POWER)	REC_120
	SPECIAL 208V 1Ø RECEPTACLE	REC_2_1P
	SPECIAL 208V 3Ø RECEPTACLE	REC_2_3P
	SPECIAL 347V RECEPTACLE	REC_347
	SPECIAL 600V WELDING 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
	SPLIT-FEED CAR POST C/W RECEPTACLE	REC_DIR
	EQUAL POTENTIAL GROUND RECEPTACLE	REC_POST
	ISOLATED GROUND FOUR-PLEX RECEPTACLE	REC_PG
	ISOLATED/EQUAL POTENTIAL GROUND RECEPTACLE	REC_4IG
	POWER/TELECOM – PACPOLE	REC_IGPG
	MOTOR	PACPOLE
	DISCONNECT SWITCH	MOTOR
	FUSED DISCONNECT SWITCH	DISCSW
	MAGNETIC MOTOR STARTER	DISCSW_FUSE
	COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER	MAGSTR
	MANUAL MOTOR STARTER C/W PILOT LIGHT	COMBSTR
	DIRECT CONNECTION – CONNECTION TO EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS. CONDUIT AND WIRING UNDER DIVISION 16.	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
	BELL	BELL
	PUSHBUTTON	PBUTTON
	START-STOP PUSHBUTTON	START_STOP
	BUZZER	BUZZER
	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
	THERMOSTAT	THERMOSTAT
	WALL MOUNTED JUNCTION BOX	JBO_W
	CEILING MOUNTED JUNCTION BOX	JB
	FLOOR MOUNTED JUNCTION BOX	JB_FL
	WEATHER PROOF	WP
	GROUND FAULT	GF
	A.F.F. ABOVE FINISHED FLOOR	
	SYSTEM FURNITURE – POWER DIRECT CONNECTION	P_DIRECT_POLE

### FIRE ALARM

	MANUAL PULL STATION	FA_PULL
	BELL C/W VISUAL ALARM LIGHT	FA_STROBE
	WALL MOUNTED HORN	FA_HORN
	WALL MOUNTED HORN/STROBE	FA_HORN_STR
	WALL MOUNTED BELL	FA_BELL
	WALL MOUNTED BELL/STROBE	FA_BELL_STR
	CEILING MOUNTED HORN	FA_HORN_C
	SMOKE DETECTOR	FA_SMOKE
	RATE OF RISE THERMAL DETECTOR	FA_ROR
	FIXED TEMPERATURE THERMAL DETECTOR	FA_FIXHT
	DUCT MOUNTED SMOKE DETECTOR	FA_DUCT
	END OF LINE RESISTOR	FA_EOL
	SPRINKLER FLOW SWITCH	FA_FSW
	SPRINKLER PRESSURE SWITCH	FA_PSW
	SPRINKLER VALVE MONITOR	FA_VALVE
	CONTROL MODULE	FA_CONTROL
	SOLENOID VALVE	S_VALVE
	FIRE PHONE	FA_PHONE
	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
	SPEAKER	SPKR
	+1525 MOUNTING HEIGHT A.F.F. (mm)	

### SECURITY

	CARD READER	CARDREADER
	DOOR POSITION SWITCH	DOORSW
	ELECTRIC EYE	ELEC_EYE
	ELECTRIC DOOR STRIKE	ELEC_DOOR_ST
	MAGNETIC DOOR LOCK	MAG_DOOR_LK
	MOTION DETECTOR	MOT_DET
	DOOR EXIT RELEASE PUSHBUTTON	EXIT_PB
	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

### CONDUIT AND WIRE

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

**APEGM**  
 Certificate of Authorization  
 Earth Tech Canada Inc.  
 No. 730 Expiry: April 30, 2006

B.M. ELEV.	
DESIGNED BY	PS
CHECKED BY	BM
DRAWN BY	CPG
APPROVED BY	AHL
SCALE:	NONE
RELEASED FOR CONSTRUCTION BY:	R. SOROKOWSKI
NO.	ISSUED FOR TENDER
REVISIONS	DATE BY
	06/03/29 ERC
	DATE 2005/07/28
	DATE 2006/03/29

**CH2M HILL**  
 Frederickson Cooper  
 ARCHITECTS

**EarthTech**  
 A Tyco International Ltd. Company

ENGINEER'S SEAL  
 ORIGINAL SIGNED BY  
 B.L. MOORE  
 2006/03/29  
 CONSULTANT DRAWING NO.  
 WM-E0011

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 ENGINEERING DIVISION

WATER TREATMENT PLANT  
 GENERAL PLANT SERVICES  
 MECHANICAL AND ELECTRICAL

ELECTRICAL SYMBOLS LEGEND

CITY FILE NUMBER	
SHEET OF	
CITY DRAWING NUMBER	1-0601M-D-E0011-001-000