

SINGLE LINE SYMBOLS

- 2 TIME DELAY RELAY
- 27 UNDERVOLTAGE RELAY
- 38 BEARING PROTECTIVE DEVICE
- 39 MECHANICAL CONDITION MONITOR (VIBRATION, ETC.)
- 43 MANUAL TRANSFER OR SELECTOR DEVICE
- 46 REVERSE PHASE OR PHASE-BALANCE CURRENT RELAY
- 49 MACHINE OR TRANSFORMER THERMAL RELAY
- 50 INSTANTANEOUS OVERCURRENT RELAY
- 51 AC TIME OVERCURRENT RELAY
- 50/51 COMBINATION INSTANTANEOUS / TIME OVERCURRENT RELAY
- 50G INSTANTANEOUS GROUND OVERCURRENT RELAY
- 51G AC TIME GROUND OVERCURRENT RELAY
- 50/51/50N COMBINATION INSTANTANEOUS / TIME OVERCURRENT WITH TIME GROUND OVERCURRENT RELAY
- 50/51H GROUND FAULT COMBINATION INSTANTANEOUS / TIME OVERCURRENT RELAY CONNECTED IN A RESIDUAL CT CIRCUIT
- 59 OVERVOLTAGE RELAY
- 66 MOTOR START LIMITER RELAY
- 74 ALARM RELAY
- 83 AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY
- 86 LOCKOUT RELAY
- 86X AUXILIARY LOCKOUT RELAY
- A AMMETER
- AS AMMETER SELECTOR SWITCH
- CS CONTROL SWITCH

SINGLE LINE SYMBOLS

- CTD CAPACITIVE TRIP DEVICE
- K KEY INTERLOCK
- KW KILOWATT METER
- I INTERLOCK
- MF MULTIFUNCTION METER
- PF POWER FACTOR METER
- PLC PLC I/O POINT
- PM POWER METER
- RM REVENUE METER
- V VOLTMETER
- VS VOLTMETER SELECTOR SWITCH
- Σ SUMMATION DEVICE
- TD TIME DELAY

SINGLE LINE SYMBOLS

- CONTACTOR
- GENERATOR
- TRANSFER SWITCH
- CURRENT TRANSFORMER
- GROUND FAULT CURRENT TRANSFORMER
- SURGE ARRESTOR
- CIRCUIT BREAKER
- DISCONNECTING DEVICE / STAB
- FUSE
- GROUND CONNECTION
- MOTOR OVERLOAD
- CAPACITOR
- 52 AC CIRCUIT BREAKER
- LOCAL DISCONNECT SWITCH
- RECEPTACLE/PLUG
- POTENTIAL TRANSFORMER
- DISCONNECT SWITCH
- TRANSFORMER

- M MOTOR
- M PKG MOTOR
- ELECTRICAL HEATER
- SS SOFT STARTER

MOTOR SCHEMATIC SYMBOLS

- E-STOP
- SELECTOR SWITCH
- LOCK-OFF-STOP SWITCH
- TIME DELAY CONTACT
- TEMPERATURE SWITCH
- FLOW SWITCH
- LEVEL SWITCH
- LIMIT SWITCH
- PRESSURE SWITCH
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- MOTOR CONTACTOR COIL
- RELAY
- TIME DELAY RELAY
- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- PILOT LIGHT, G = GREEN, R = RED, A = AMBER
- DRAIN VALVE

ELECTRICAL PLAN LAYOUT SYMBOLS

- MOTOR
- PKG MOTOR
- W.P. WEATHERPROOF
- LOCAL DISCONNECT SWITCH
- UNIT HEATER
- ELECTRICAL HEATER
- SPECIAL PURPOSE RECEPTACLE
- DEVICE AS NOTED BY TAG
- LUMINAIRE 'X'=TYPE (REFER TO LUMINAIRE SCHEDULE)
- HIGH OR LOW BAY LUMINAIRE 'X'=TYPE (REFER TO LUMINAIRE SCHEDULE)
- WALL MOUNTED LUMINAIRE 'X'=TYPE (REFER TO LUMINAIRE SCHEDULE)
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- HORN/STROBE
- STROBE
- FRONT - EXIT SIGN
- RIGHT - EXIT SIGN
- LEFT - EXIT SIGN
- EMERGENCY BATTERY BANK C/W 2 HEADS
- BATTERY BANK IDENTIFIER
- REMOTE EMERGENCY LIGHT WALL MOUNTED
- SOURCE BATTERY BANK

DRAWING NUMBER	REFERENCE DRAWINGS
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NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS
01	REVISED DRAWING NUMBER	2008/02/13	AEO	-
00	ISSUED FOR CITY USE	2007/08/28	YM	-

DESIGNED BY:	EXISTING
DRAWN BY:	CJR
SCALE:	NTS
DATE:	2005/11/07
ISSUED FOR CONSTRUCTION BY:	A. WEISS
DATE:	2019/10/18
CONSULTANT NO.:	

ENGINEER'S SEAL

oc.f.1.6/
2.019

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION

ELECTRICAL
 LEGEND & DETAILS

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0640M-E0001	001	02	A1