

ELECTRICAL ITEM LIST

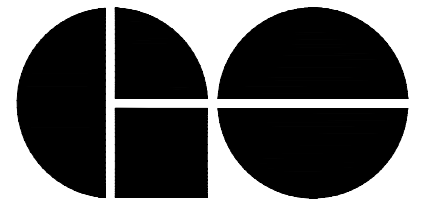
ALL DIMENSIONS SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED.

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| <p>1. SELECTOR SWITCH (SSW-1U) 4-POSITION, 14-CONTACT BLOCKS RATED 600V, 10AMP.A.C.CONTINUOUSLY, HANDLE OPERATOR WITH 60x60mm FRONT PLATE. FOR CONTACT SWITCHING ARRANGEMENT AND SWITCHING DEGREE POSITION REFER TO SELECTOR SWITCH CONTACT DIAGRAM. SELECTOR SWITCH HANDLE: SCHNEIDER #9003KBD1C SELECTOR SWITCH CONTACT BLOCK: SCHNEIDER #9003K200026US</p> | <p>12. PUSHBUTTON STATION: PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN, AND NORMALLY CLOSED INDUSTRIAL OIL-TIGHT, LOW PROFILE FLUSH HEAD, BLACK COLOR, MOUNTED IN SINGLE GANG DIE CAST SURFACE MOUNTED BOX OR ON MCC FRONT. ALLEN-BRADLEY 800T-1TD</p> | <p>24. POWER RECEPTACLE ASSEMBLY: PANEL MOUNTED POWER RECEPTACLE W/ ANGLE ADAPTER COVER & THREADED COVER 600V, 325A, NON-CIRCUIT BREAKING, FEMALE CONTACTS 3PH, 1GRD AND 4 - 120VDC CONTROL CONTACTS. POWER CONTACTS: 1-3 - 350MCM TELCOFLEX, .36" LONG 1 - 1/0 DLO CABLE FOR GRD, 48" LONG CONTROL CONTACTS: 5-8 - 4S/C #12AWG XLPO, 118" LONG CLEMENS NATIONAL #CN-GTPC-17-V118-V01</p> | <p>35. MOLDED CASE SWITCH, 600V, 400A, 3P CABLE LUGS AS SHOWN ON DRAWING CUTLER-HAMMER SWITCH #HKD3400W CUTLER-HAMMER AUX. CONTACT #A2X3LTK CUTLER-HAMMER LINE TERMINAL COVERS #TS33LN CUTLER-HAMMER LOAD TERMINAL COVERS #TS33LD</p> |
| <p>2. SELECTOR SWITCH (SSW-1R AND SSW-1L) 4-POSITION, 6-CONTACT BLOCKS, RATED 600V, 10AMP.A.C.CONTINUOUSLY, KEY OPERATOR. FOR CONTACT SWITCHING ARRANGEMENT AND SWITCHING DEGREE POSITION REFER TO SELECTOR SWITCH CONTACT DIAGRAM. SCHNEIDER #XBCD10612S11</p> | <p>13. SELECTOR SWITCH (1L-SW1 AND 1R-SW1) 2 POSITION, SPRING RETURN FROM RIGHT, 1 NORMALLY OPEN, 1 NORMALLY CLOSED CONTACT ALLEN-BRADLEY 800T-H5A</p> | <p>25. ENERGY MANAGEMENT CONTROL RECEPTACLE PANEL MOUNTED POWER RECEPTACLE W/ ANGLE ADAPTER COVER & THREADED COVER 600V, 30A, NON-CIRCUIT BREAKING INSERT PATTERN WITH 7 #12 FEMALE CONTACTS S/C #14AWG, XLPO WIRES 1 & 4 TO BE CONNECTED TO TERMINALS WIRES 2, 5 & 6 ARE PROVIDED BUT NOT CONNECTED TO TERMINALS CLEMENS NATIONAL #CN-CP-011</p> | <p>36. MOLDED CASE BREAKER, 600V, 15AMP., 2P, 200000AMP. SYMMETRICAL I.C. RATING AT 600V, C/W TWO AUXILIARY SWITCHES. CUTLER-HAMMER TYPE 'TRI-PAC', 'FB'</p> |
| <p>3. PUSHBUTTON MOMENTARY CONTACT, NORMALLY OPEN, INDUSTRIAL OIL-TIGHT, FLUSH HEAD, CAP COLOR GREEN. ALLEN-BRADLEY 800T-A1D1</p> | <p>14. SELECTOR SWITCH (L-SW2 AND R-SW2) 2 POSITION, MAINTAINED 1 NORMALLY OPEN, 1 NORMALLY CLOSED CONTACT ALLEN-BRADLEY 800T-H2B</p> | <p>26. HEAVY DUTY TOGGLE SWITCH 250V D.C. 20AMP DOUBLE POLE. COOPER #AH1891-C</p> | <p>37. CONTACTOR, MAGNETIC, 600V, 3P, FVNR, EEMAC SIZE 6 (540AMP. CONTINUOUS RATING), C/W 120V A.C., 60Hz OPERATING COIL. TWO N.O. & TWO N.C. AUXILIARY COIL CONTACTS CUTLER-HAMMER NEMA CLASS, FREEDOM</p> |
| <p>4. PUSHBUTTON MOMENTARY CONTACT, NORMALLY OPEN, AND NORMALLY CLOSED INDUSTRIAL OIL-TIGHT, FLUSH HEAD, CAP COLOR RED. ALLEN-BRADLEY 800T-A6A</p> | <p>15. CONTROL RELAY, 120V DC COIL, C/W FIVE NORMALLY OPEN AND THREE NORMALLY CLOSED CONTACTS. (DR-1L, DR-1R) ALLEN-BRADLEY 700DC-P800Z1</p> | <p>27. DUPLEX RECEPTACLE "GFCI" TYPE 125V, 15AMP COOPER #XH6F15B C/W COVER ARROW HART #S1966 MOUNTED IN CAST FS BOX.</p> | <p>38. FUSE ASSEMBLY CONSISTING OF: SEMICONDUCTOR FUSE 700 VOLT, 400 AMPERE COMPLETE WITH TRIGGER OPERATOR. FERRAZ #A70 P350-4TAEI ADD ON SWITCH, SINGLE POLE DOUBLE THROW WITH SCREW ON TYPE TERMINALS FERRAZ #AOS-S.</p> |
| <p>5. "EMERGENCY TRIP" PUSHBUTTON GUARD ALLEN-BRADLEY 800H-N140</p> | <p>16. LATCHING CONTROL RELAY, 120V AC COIL, FOUR NORMALLY OPEN CONTACTS (LR-1R, LR-1L) ALLEN-BRADLEY 700-PL400-A1</p> | <p>28. FUSE HOLDER, 600V, 15AMP. A.C., 1P, FRONT CONNECTION, SUITABLE FOR HRC FUSE TYPE "GRS". FUSEHOLDER FERRAZ #RS20H FUSE FERRAZ #C15N</p> | <p>39. EXTERIOR & INTERIOR LED LIGHT BOX SMD MANUFACTURING AND DESIGN #LB95X45CW</p> |
| <p>6. PUSHBUTTON MOMENTARY CONTACT, NORMALLY OPEN, AND NORMALLY CLOSED INDUSTRIAL OIL-TIGHT, FLUSH HEAD, CAP COLOR GREEN. ALLEN-BRADLEY 800T-A1A</p> | <p>17. LATCHING CONTROL RELAY, 120V DC COIL, TWO NORMALLY OPEN CONTACTS ONE REQUIRED PER 120VDC POWER SUPPLY (GA-L, GA-R) ALLEN-BRADLEY 700DC-PL200Z1</p> | <p>29. LIGHT SWITCH, 15A, 120V DC, SINGLE POLE, C/W COVER PLATE. MOUNTED IN CAST FS BOX. SCHNEIDER #2510-KS1</p> | <p>40. SPARE</p> |
| <p>7. EMERGENCY STOP PUSHBUTTON 1 NORMALLY OPEN, 1 NORMALLY CLOSED LATE BREAK INDUSTRIAL OIL-TIGHT. ALLEN-BRADLEY 800T-FX6A1</p> | <p>19. OVERVOLTAGE RELAY, ELECTRONIC TYPE RANGE OF ADJUSTMENT 30 - 300V DC, SET TO PICK UP AT 150 VOLTS. (OV1-1L, OV1-1R) TELEMECHANIQUE #RM4UA33MW</p> | <p>30. DIRECT CURRENT DUAL TRIP ALARM, 0-5V, SINGLE INPUT, TWO DPDT SWITCHES TRIP SET ADJUSTABLE 0-100%, LOW/LOW TRIP FAIL SAFE. CSA APPROVED GENERAL ENCLOSURE 115V/60Hz PRIME POWER. ROCHESTER INSTRUMENT #ET-1215-VD2-LLF-H1-N1-T2</p> | <p>41. EXTERIOR LED LIGHT STRIP WITHOUT PHOTOCELL SMD MANUFACTURING AND DESIGN #LS765X1CW</p> |
| <p>8. AC/DC INDICATING LIGHT, 130V PUSH TO TEST LIGHT, WITH RED LENS, INDUSTRIAL OIL TIGHT ALLEN-BRADLEY 800T-QTH13R</p> | <p>20. TIMER RELAY, 120V AC/DC SUPPLY VOLTAGE * AMP CAPACITY VARIES WITH THE NUMBER OF WAYSIDE TRAINS (FR-1R, TR-1L, TR-1R) RELAY SOCKET: OMRON #H3CR-A-AC100-240/DC100-125 RELAY BASE: OMRON #P2CF-11</p> | <p>31. 15 OHM, 2 WATT RESISTOR</p> | <p>42. EXTERIOR LED STRIP LIGHT WITH TRANSFORMER TDG #120-900-0120</p> |
| <p>9. AC/DC INDICATING LIGHT, 130V PUSH TO TEST LIGHT, WITH AMBER LENS, INDUSTRIAL OIL TIGHT ALLEN-BRADLEY 800T-QTH13A</p> | <p>21. CONTROL RELAY, 120V AC COIL 3 NORMALLY OPEN CONTACTS (RRx, TRx IN FEPO) RELAY SOCKET: ALLEN BRADLEY #700-HF33A1 RELAY BASE: ALLEN BRADLEY #700-HN138</p> | <p>32. CONTROL WIRE TERMINALS, 600V A.C., 36AMP., SUITABLE FOR WIRE SIZE FROM 22 -10AWG, C/W NECESSARY HARDWARE, MOUNTING CHANNEL, END BRACKETS AND JUMPERS AS REQUIRED. WEIDMULLER TYPE SAK4 1283.6 ASK1-LD, 2254.6</p> | <p>43. CONTACTOR, 120VAC COIL, 1 NO CONTACT, ALLEN BRADLEY #100-C37D10 (CT)</p> |
| <p>10. AC/DC INDICATING LIGHT, 130V PUSH TO TEST LIGHT WITH GREEN LENS, INDUSTRIAL OIL TIGHT ALLEN-BRADLEY 800T-QTH13G</p> | <p>22. CONTROL RELAY, 120V AC COIL 2 NORMALLY OPEN CONTACTS (RRP, REX IN FEPO) ALLEN BRADLEY #700-P200A1</p> | <p>33. CONTROL TRANSFORMER, 5KVA, 600-120V/240V, 1PH, 60Hz. HAMMOND PT TYPE</p> | <p>44. SPARE</p> |
| <p>11. AC/DC INDICATING LIGHT, 130V PUSH TO TEST LIGHT WITH WHITE LENS, INDUSTRIAL OIL TIGHT ALLEN-BRADLEY 800T-QTH13W</p> | <p>23. CONTROL RELAY, 120V AC COIL 4 NORMALLY OPEN CONTACTS (RDC IN FEPO) ALLEN BRADLEY #700-P400A1</p> | <p>34. PUSHBUTTON MOMENTARY CONTACT, NORMALLY OPEN, AND NORMALLY CLOSED INDUSTRIAL OIL-TIGHT, FLUSH HEAD, CAP COLOR BLACK. ALLEN-BRADLEY 800T-A2A</p> | <p>45. SPARE</p> |

PLEASE READ
EQUIPMENT, CABLE, AND WIRE PREFIX NUMBERS SHOWN ARE FOR TRAIN No.1 ONLY. PREFIX NUMBERS FOR ADDITIONAL TRAINS ARE TO BE CHANGED TO CORRESPONDING TRAIN NUMBER.

- GENERAL NOTES:
- CONSULTANTS ARE TO REVIEW ALL WIRE SIZING TO TAKE INTO ACCOUNT; DERATING AND 3% MAXIMUM VOLTAGE DROP FACTORS. WIRE SIZES ARE SUGGESTIONS ONLY!
 - COMPONENT CROSS REFERENCES SHOWN AS: XXXY WHERE "XX" REPRESENTS FINAL 2 DIGITS OF REFERENCE DRAWING # AND "YY" REPRESENTS QUADRANT LOCATION ON DWG. I.E. 02C1 = WSP-002 QUAD. C1
 - ALL STORAGE ENCLOSURE DOOR LOCKS AND CONTROL PANEL CABINET DOOR LOCKS SHALL HAVE THE SAME LOCKS SUITABLE FOR THE OPERATION WITH ONE MASTER KEY - # LF TELFORD 92304.
 - ENCLOSURE DOOR HANDLES SHALL HAVE A LOCKING 'T' HANDLE LOEWE & FLETCHER #1617-51-2 TYPE 78
 - ALL CONTROL SELECTOR SWITCHES SHALL HAVE THE SAME LOCKS SUITABLE FOR THE OPERATION WITH ONE MASTER KEY - # D018.
 - REFER TO ELECTRIFICATION STANDARDS AND SPECIFICATIONS FOR GROUNDING AND BONDING, EMI/EMF WITHSTAND REQUIREMENTS, CABLING REQUIREMENTS.

GO TRANSIT PROJECT NO. XXXXX

REFERENCE DRAWINGS		ISSUE		REVISIONS		DRAWN BY:	DESIGNED BY:	 <p>A Division of Metrolinx</p>	<p>XXXXXX WAYSIDE POWER ELECTRICAL ITEM LIST & GENERAL NOTES</p>			
				6 FEB. 2018	UPDATES AND ADDITIONS							
				5 DEC 2013	DISCLAIMER NOTE	CHECKED BY:	APPROVED BY:					
				4 JULY 2013	LIST CONTENT REVISION							
				3 MAR 2013	UPDATES AND ADDITIONS							
				2 JULY 2012	NOMENCLATURE REVISION	SCALE: N.T.S.	FULL SIZE ONLY					
				1 SEPT. 2010	GENERAL REVISIONS							
DWG NO.	TITLE	REV.	DATE	ISSUED FOR	REV.	DATE			CONTRACT NO. XX-20XX-EN-XXX	DWG. NO. WSP-033	REV. 6	SHEET XX