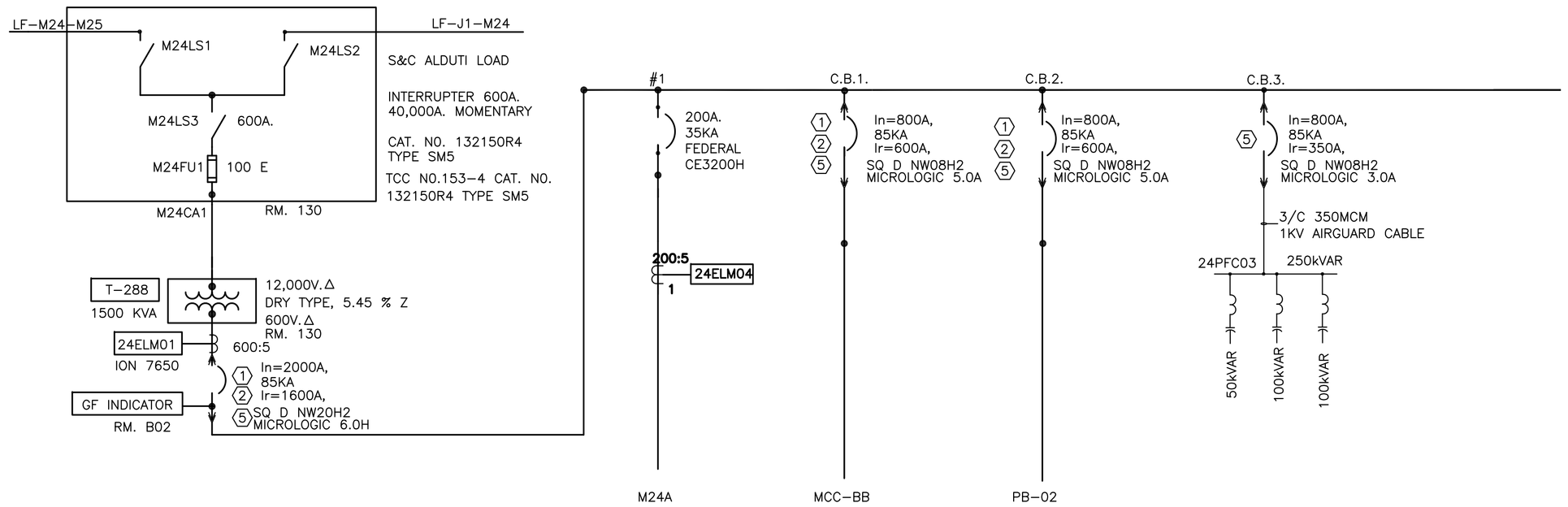
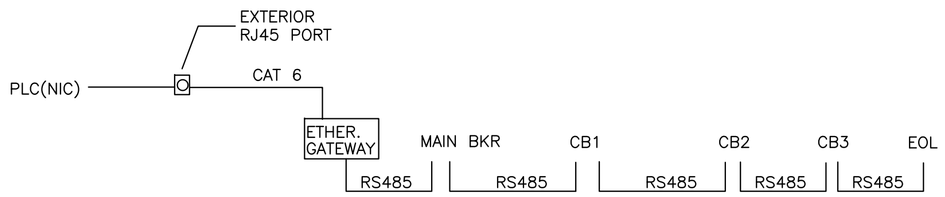



1 / E01 SINGLE LINE DIAGRAM

SCALE:




2 / E01 MODBUS NETWORKING

SCALE:

## DRAWING NOTES

1. REMOVE EXISTING FPE BREAKERS

2. PROVIDE NEW SQ D MASTERPACT BREAKERS
– 600V, 800A, 85KA
– DRAW OUT TYPE.
– LSI MICROLOGIC 5.0A ELECTRONIC TRIP UNIT
– SUPPLY AND INSTALL 2 NEW DOORS TO MATCH NEW BREAKER

3. PROVIDE NEW SQ D MASTERPACT BREAKERS
– 600V, 2000A, 85KA
– DRAW OUT TYPE.
– LSIG MICROLOGIC 6.0H ELECTRONIC TRIP UNIT
– SUPPLY AND INSTALL 1 NEW DOORS TO MATCH NEW BREAKER

4. PROVIDE BREAKER COMMISSIONING AND REPORT BY SCHNEIDER

5. PROVIDE SHUNT TRIP, CLOSE COIL TO THE BREAKERS AS SHOWN
– MODBUS COMMUNICATION MODULE FOR REMOTE CONTROL
– PRE–WIRED MODBUS TCP/IP GATEWAY FOR FOR FUTURE PLC LINK
– PROVIDE DEDICATED ETHERNET PORT LOCATED AT SWITCHBOARD EXTERIOR

National Research Council Canada / Conseil national de recherches Canada
Administrative Services and Property Management Branch / Division des services administratifs et gestion de l'immobilier

NRC · CNRC

## GENERAL NOTES

A CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
B CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
C PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
D MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
E FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. COLOUR SCHEME TO MATCH EXISTING.
F REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
G PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION.
H THE WORD "PROVIDE" MEANS SUPPLY, INSTALL, CONNECT AND TEST.
I THE WORD "WIRING" MEANS WIRES/CABLE AND RACEWAY.
J ALL WIRE TO BE IN EMT UNLESS OTHERWISE NOTED.
K COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.OUTAGE IS ONLY SCHEDULED DURING WEEKEND OR AFTER HOUR, UNLESS OTHERWISE SPECIFIED BY NRC REPRESENTATIVE
– ANY WEEKEND OUTAGE MUST BE CARRIED BETWEEN FRIDAY 1800 AND MONDAY 0300
– ANY AFTER HOUR OUTAGE MUST BE CARRIED BETWEEN SAME DAY 1800 AND NEXT DAY 0300
– ALL LOADS TO BE RESUMED AT THE END OF OUTAGE
L CONTRACTOR TO VERIFY INTEGRITY OF EXISTING RACEWAY BEFORE PULLING CABLE/WIRE.
M ALWAYS PERFORM SCAN BEFORE CORE DRILL.
N VERIFY PHASING AND ROTATION, MATCH EXISTING SYSTEM.
O CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGES TO ANY EXISTING BUILDING COMPONENT CAUSED BY CONSTRUCTION ACTIVITIES.

| No. | Date | Revision | By: Par: |
|---|---|---|---|
| 0 | DD MM YYYY | XXXX | ??? |

Date Printed DD MM YYYY — Date imprimée

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et l'etat des liéux et en assumer la responsabilité

A Detail no. / No. du détail
B Location drawing no. / sur dessin no.
C Drawing no. / dessin no.

project / projet
**BUILDING M-24 SWITCHBOARD BREKAER REPLACEMENT**

**MONTREAL ROAD CAMPUS**

drawing / dessin
SINGLE LINE DIAGRAM

| | |
|---|---|
| designed / conçu: KXL | date / date: MAY/2016 |
| drawn / dessiné: KXL | scale / échelle: AS NOTED |
| checked / vérifié: | sheet / feuille: E01 of/de E01 |
| approved / approuvé: B.V | W.O.no. / D.T.no.: A1-009194 |

dwg.no. / dessin no.: 5223-E01

ASPM A1 (841x594)