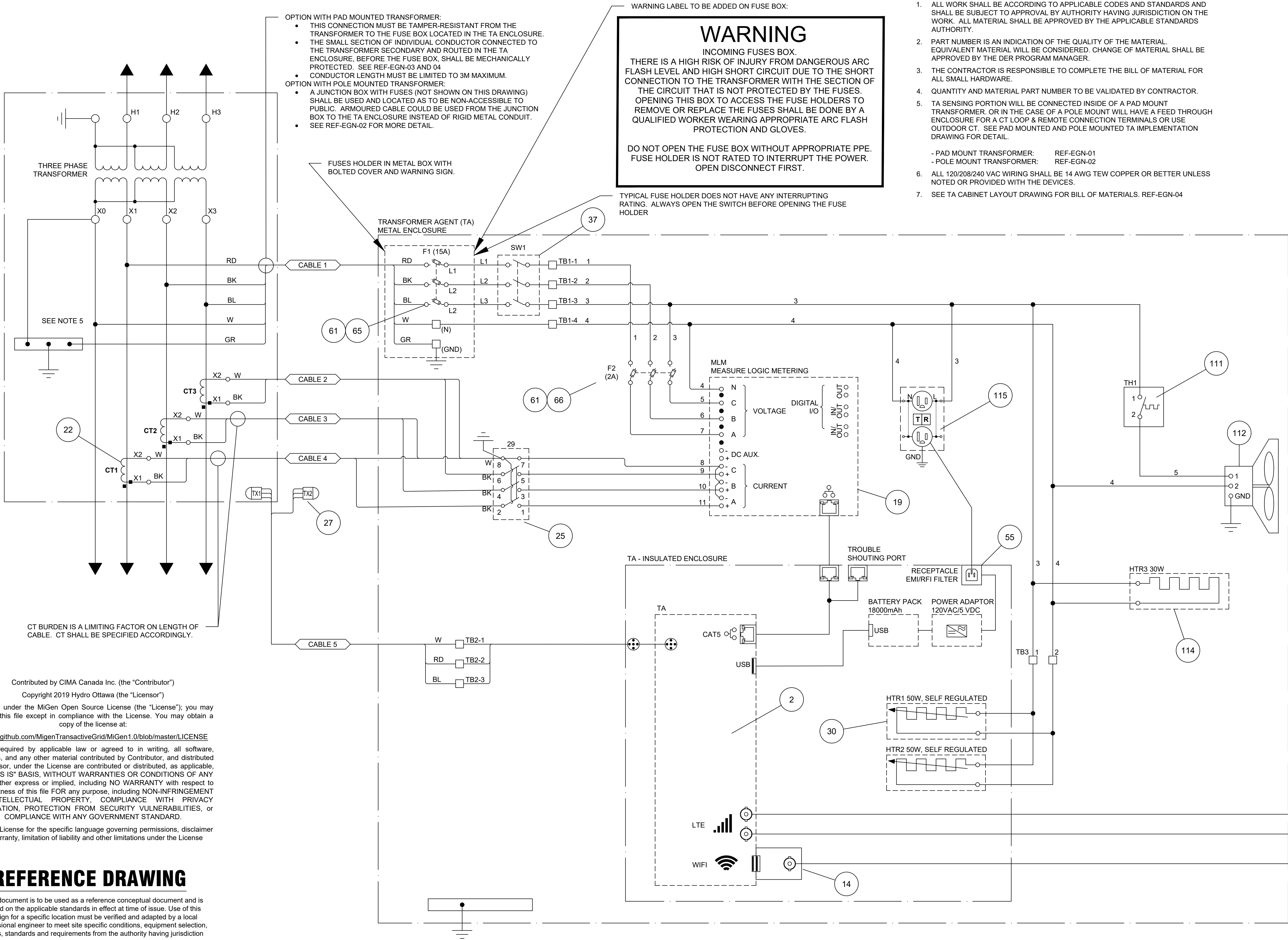


F:\Users\plumaci\OneDrive\Hydro Ottawa\A000597B Smart Grid Phase 2\400 drawings\Reference\MiGen\REF-ECW-02\_Ta Enclosure\THREE PHASE System\Layout\THREE PHASE TA ENCLOSURE CONNECTION WIRING DIAGRAM.dwg / Layout / THREE PHASE TA ENCLOSURE CONNECTION WIRING DIAGRAM / Last save: 2020/01/24, 07:24 / Printed: 2020/01/24, 08:06



WARNING  
INCOMING FUSES BOX.  
THERE IS A HIGH RISK OF INJURY FROM DANGEROUS ARC FLASH LEVEL AND HIGH SHORT CIRCUIT DUE TO THE SHORT CONNECTION TO THE TRANSFORMER WITH THE SECTION OF THE CIRCUIT THAT IS NOT PROTECTED BY THE FUSES. OPENING THIS BOX TO ACCESS THE FUSE HOLDERS TO REMOVE OR REPLACE THE FUSES SHALL BE DONE BY A QUALIFIED WORKER WEARING APPROPRIATE ARC FLASH PROTECTION AND GLOVES.  
DO NOT OPEN THE FUSE BOX WITHOUT APPROPRIATE PPE. FUSE HOLDER IS NOT RATED TO INTERRUPT THE POWER. OPEN DISCONNECT FIRST.

- NOTE:**
- ALL WORK SHALL BE ACCORDING TO APPLICABLE CODES AND STANDARDS AND SHALL BE SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION ON THE WORK. ALL MATERIAL SHALL BE APPROVED BY THE APPLICABLE STANDARDS AUTHORITY.
  - PART NUMBER IS AN INDICATION OF THE QUALITY OF THE MATERIAL. EQUIVALENT MATERIAL WILL BE CONSIDERED. CHANGE OF MATERIAL SHALL BE APPROVED BY THE DER PROGRAM MANAGER.
  - THE CONTRACTOR IS RESPONSIBLE TO COMPLETE THE BILL OF MATERIAL FOR ALL SMALL HARDWARE.
  - QUANTITY AND MATERIAL PART NUMBER TO BE VALIDATED BY CONTRACTOR.
  - TA SENSING PORTION WILL BE CONNECTED INSIDE OF A PAD MOUNT TRANSFORMER. OR IN THE CASE OF A POLE MOUNT WILL HAVE A FEED THROUGH ENCLOSURE FOR A CT LOOP & REMOTE CONNECTION TERMINALS OR USE OUTDOOR CT. SEE PAD MOUNTED AND POLE MOUNTED TA IMPLEMENTATION DRAWING FOR DETAIL.
- PAD MOUNT TRANSFORMER: REF-EGN-01  
- POLE MOUNT TRANSFORMER: REF-EGN-02
- ALL 120/208/240 VAC WIRING SHALL BE 14 AWG TEW COPPER OR BETTER UNLESS NOTED OR PROVIDED WITH THE DEVICES.
  - SEE TA CABINET LAYOUT DRAWING FOR BILL OF MATERIALS. REF-EGN-04

- LEGEND AND DEFINITION:**
- |       |  |
|-------|--|
| TA    | TRANSFORMER AGENT                        |
| CA    | CUSTOMER AGENT                           |
| HEMSC | HOME ENERGY MANAGEMENT SYSTEM CONTROLLER |
| DG    | DISTRIBUTED GENERATION                   |
| MET   | METERING RELAY                           |
| 29    | CT ISOLATION SHORTING SWITCH             |
- TRANSFORMER (TX)  
CURRENT TRANSFORMER (CT)  
BREAKER (BK)  
FINGER SAFE FUSE HOLDER (F)  
DISCONNECT (SW)  
THERMOSTAT (TH)  
HEATER (HTR)

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## REFERENCE DRAWING

This document is to be used as a reference conceptual document and is based on the applicable standards in effect at time of issue. Use of this design for a specific location must be verified and adapted by a local professional engineer to meet site specific conditions, equipment selection, codes, standards and requirements from the authority having jurisdiction

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No	Revision	Date	Init. eng / cad
0	ISSUE AS REFERENCE DRAWING	01/13/2020	R.L./A.L.

**CIMA+**  
T 613-860-2462, F 613-860-1870  
110-240 Catherine Street, Ottawa, ON K2P 2G8 CANADA

Project Manager:  
E. Cantin, tech.

Client: HYDRO OTTAWA  
Project title: MiGen TRANSACTIVE GRID  
REFERENCE DRAWING  
Drawing title: THREE PHASE SYSTEM  
TA ENCLOSURE  
CONNECTION WIRING DIAGRAM

Project number: A000597B  
Designed by: R. Langlois  
Drawn by: A. Teranun  
Verified by: E. Cantin  
Revision: 0  
Drawing N°: REF-ECW-02

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