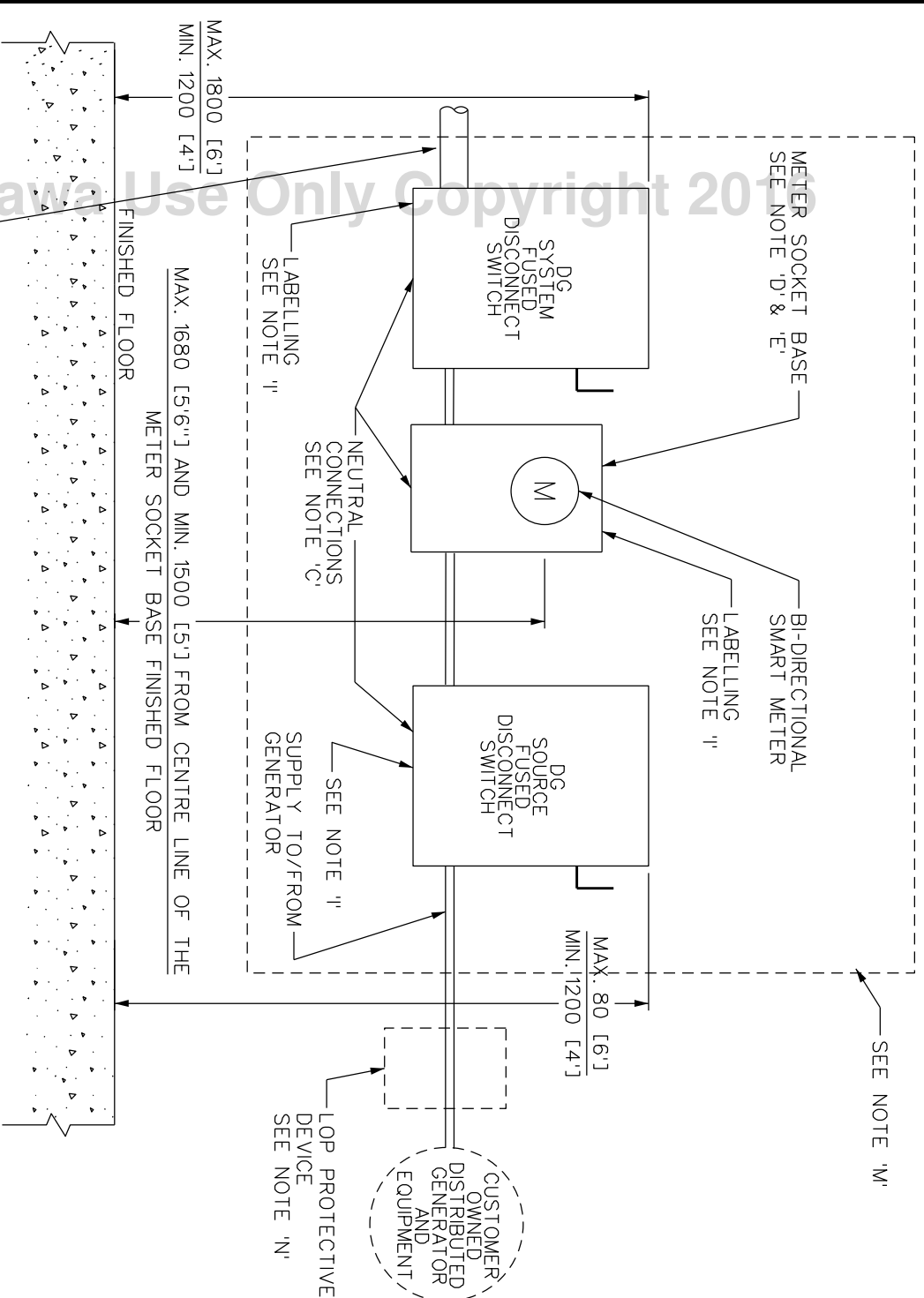


**NOTES:**

- A. COMPLETE A HYDRO OTTAWA "SERVICE REQUEST FORM" AT THE [www.hydroottawa.com](http://www.hydroottawa.com) WEBSITE OR CONTACT HYDRO OTTAWA TO REQUEST AND SCHEDULE A SERVICE LAYOUT; REFER TO HYDRO OTTAWA CONDITIONS OF SERVICE, ECS0012, FOR CONTACT INFORMATION.
- B. TO ENERGIZE THE DISTRIBUTED GENERATION SERVICE, HYDRO OTTAWA REQUIRES:
  - i. NOTIFICATION AND/OR A COPY OF THE ESA CONNECTION AUTHORIZATION CERTIFICATE.
  - ii. POSTING OF A LAMACOID PLATED ELECTRICAL SINGLE LINE DIAGRAM (SLD) AT THE DG SYSTEM FUSED DISCONNECT SWITCH. THE SLD MUST BE PLAINLY MARKED IDENTIFYING SWITCHING ARRANGEMENTS, THE DISCONNECT LOCATIONS, AND THE TYPE AND NAMEPLATE RATING OF THE DISTRIBUTED GENERATOR.
  - iii. POSTING OF A LAMACOID PLATED LABEL AT THE DG SOURCE DISCONNECT SWITCH INDICATING THE GENERATOR:
    - (a) RATED OPERATING CURRENT AND VOLTAGE.
    - (b) RATED OPEN CIRCUIT VOLTAGE.
    - (c) RATED SHORT CIRCUIT CURRENT, THE RATING IS BASED ON THE GENERATION FACILITY NAMEPLATE RATING; HOWEVER, FOR INVERTER BASED SYSTEMS, INDICATE THE RATING OF THE GENERATION SOURCE ARRAY AND INVERTER.
- C. THE DG SOURCE DISCONNECT SWITCH SHALL MEET ESA REQUIREMENTS. WHEN A NEUTRAL (IDENTIFIED CONDUCTOR) IS REQUIRED BY CODE, THERE SHALL BE PROVISION FOR GROUNDING THAT CONDUCTOR. THE DG SOURCE DISCONNECT SWITCH FROM THE DISTRIBUTED GENERATOR SHALL PLAINLY INDICATE WHETHER IN THE OPEN OR CLOSED POSITION, AND HAVE CONTACT VERIFIABLE BY DIRECT VISIBLE MEANS.
- D. FOR SINGLE-PHASE APPROVED 4-JAW METER SOCKET BASES, REFER TO HYDRO OTTAWA METERING SPECIFICATION GCS0008, TABLE 1.
- E. FOR THREE-PHASE APPROVED 7-JAW METER SOCKET BASES, REFER TO HYDRO OTTAWA METER SPECIFICATION GCS0008, TABLE 5.
- F. FOR WIRING DETAIL, REFER TO HYDRO OTTAWA SPECIFICATION MCS0057.
- G. FOR SINGLE LINE DIAGRAM AND OTHER CONNECTION AND EQUIPMENT REQUIREMENTS, REFER TO HYDRO OTTAWA SPECIFICATION ECG0015.
- H. THE "DG SOURCE DISCONNECT" AND "DG SYSTEM FUSED DISCONNECT" SWITCHES SHALL EACH BE EQUIPPED WITH AT LEAST (REFER TO HYDRO OTTAWA METERING SPECIFICATION GCS0008):
  - i. COVER/DOOR INTERLOCK MECHANISM PREVENTING OPENING OF THE COVER WITH THE DISCONNECT SWITCH IN THE "ON" POSITION.
  - ii. PAD-LOCKING PROVISION FOR THE SWITCH HANDLE IN THE "OFF" POSITION.
  - iii. PAD-LOCKING PROVISION FOR THE COVER USEABLE BY HYDRO OTTAWA TO PLACE A TAMPER PREVENTION SEAL.
- I. HYDRO OTTAWA TO SUPPLY AND INSTALL "TWO POWER SOURCES" WARNING LABELS ON THE DG SOURCE AND SYSTEM DISCONNECT SWITCHES, AND THE GENERATOR METER BASE.
- J. NO CUSTOMER OWNED EQUIPMENT INSTALLED BETWEEN DISCONNECT SWITCHES AND HYDRO OTTAWA REVENUE METER EQUIPMENT.
- K. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- L. MINIMUM OF 1500 [5'] OF CLEARANCE REQUIRED IN FRONT OF ALL METERING EQUIPMENT.
- M. A 16 [5/8"] OR 19 [3/4"] PLYWOOD MOUNTING BOARD COATED ON ALL SIDES, WITH GREY FIRE RETARDANT PAINT SHALL BE INSTALLED. THE FIRE RETARDANT COATING SHALL PROVIDE A MAXIMUM FLAME SPREAD RATING OF 25 (CLASS A) IN ACCORDANCE WITH ULC-CAN/ULC-S102 - STANDARD METHOD BUILDING MATERIALS AND ASSEMBLIES.
- N. LOSS OF PHASE (LOP) PROTECTIVE DEVICES, IF REQUIRED, SHALL BE CONNECTED BESIDE THE DG SOURCE DISCONNECT SWITCH.



**DEFINITIONS:**

**"DG SYSTEM FUSED DISCONNECT"** MEANS AN ELECTRICAL SAFETY AUTHORITY (ESA) APPROVED DEVICE WITH FACTORY INSTALLED OVER-CURRENT PROTECTION RATED AT EITHER 100% FULL-LOAD AMPS (FLA) OR 80% OF THE AVAILABLE FAULT AMPS OF THE CUSTOMER'S GENERATION OR ENERGY STORAGE EQUIPMENT, WHICHEVER IS GREATER; MOULDED CASE BREAKERS ARE NOT ACCEPTABLE. IT SHALL PROVIDE AN OBVIOUS VISIBLE OPEN POINT. THIS DEVICE IS USED TO ISOLATE THE CUSTOMER'S DISTRIBUTED GENERATION (DG) EQUIPMENT, OR ENERGY RESOURCE FACILITY (ERF) EQUIPMENT, FROM THE UTILITY DISTRIBUTION SYSTEM.

**"DG SOURCE FUSED DISCONNECT"** MEANS AN ELECTRICAL SAFETY AUTHORITY (ESA) APPROVED DEVICE WITH FACTORY INSTALLED OVER-CURRENT PROTECTION RATED AT EITHER 100% FULL-LOAD AMPS (FLA) OR 80% OF THE AVAILABLE FAULT AMPS FROM THE CUSTOMER'S GENERATION OR ENERGY STORAGE EQUIPMENT, WHICHEVER IS GREATER; MOULDED CASE BREAKERS ARE NOT ACCEPTABLE. IT SHALL PROVIDE AN OBVIOUS VISIBLE OPEN POINT. THIS DEVICE IS USED TO ISOLATE THE CUSTOMER'S DISTRIBUTION GENERATION (DG) EQUIPMENT, OR ENERGY RESOURCE FACILITY (ERF) EQUIPMENT, FROM THE EQUIPMENT THAT IT SUPPLIES.

REVISIONS	DATE	BY	CHKD	APPD	TITLE
REV: 2 CHANGE: REVISE SWITCH & M/B DIMENSIONS	2013-04-17	GM	BP	CSM	<b>ENGINEERING SPECIFICATION</b> <b>ERF 120V/240V 1PH, 3W, ≤200A</b> <b>AND 120V/208Y OR 347V/600Y, 3PH</b> <b>4W, ≤200A SECONDARY PARALLEL SERVICE</b> <b>CONSTRUCTION DETAIL</b> <b>MCS0058</b>
REV: 3 CHANGE: REVISE SWITCH & M/B DIMENSIONS	2014-09-03	SK	CSM	CSM	
REV: 4 CHANGE: UPDATE TITLE	2016-01-13	JD	SMC	CSM	
PREP: G. MOLNAR/F. BOLO CHKD: R. WILLIAMS/B. PECK APPD: C. MALONE DATE: 2011-07-19 SCALE: N.T.S. @ ANSIB					