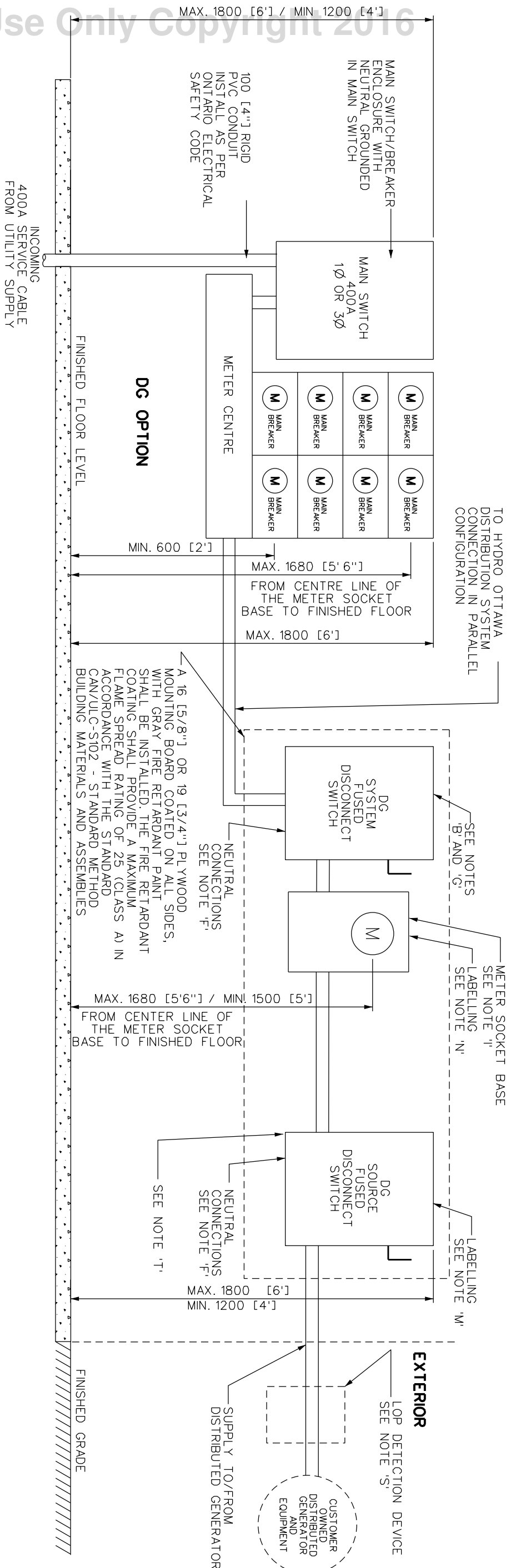


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NOTES:

- A. COMPLETE A HYDRO OTTAWA, "SERVICE REQUEST FORM" AVAILABLE AT www.hydroottawa.com OR CONTACT HYDRO OTTAWA SERVICE DESK TO REQUEST A SERVICE LAYOUT; REFER TO HYDRO OTTAWA CONDITIONS OF SERVICE, ECS0012, FOR CONTACT INFORMATION.
- B. REFER TO HYDRO OTTAWA SPECIFICATION ECG0015, SINGLE LINE DIAGRAM.
- C. THE ENTIRE INSTALLATION MUST BE INSPECTED AND APPROVED BY THE ELECTRICAL SAFETY AUTHORITY (ESA). HYDRO OTTAWA REQUIRES NOTIFICATION AND/OR A COPY OF THE CONNECTION AUTHORIZATION ISSUED FROM THE ESA INDICATING THAT AN INSPECTION HAS BEEN CONDUCTED PRIOR TO ENERGIZATION OF THE PARALLEL DISTRIBUTED GENERATOR (DG) SERVICE.
- D. THE DISTRIBUTED GENERATOR METER SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM WITH THE MAIN SERVICE METER.
- E. THE DISTRIBUTED GENERATION INSTALLATION MUST USE THREE-PHASE INVERTERS ON THREE-PHASE SYSTEMS. REFER TO THE ONTARIO ELECTRICAL SAFETY CODE REGARDING THE GROUNDING OF NEUTRAL CONDUCTORS/CONNECTIONS.
- G. THE DG SYSTEM FUSED DISCONNECT SWITCH FROM THE DISTRIBUTED GENERATOR IS REQUIRED TO BE SERVICE ENTRANCE RATED WITH OVER CURRENT PROTECTION AND PROVISION FOR GROUNDING OF THE NEUTRAL (IDENTIFIED CONDUCTOR). THE SWITCH MUST BE CSA CERTIFIED AS "SUITABLE FOR SERVICE EQUIPMENT" AND SHALL PROVIDE VISIBLE ISOLATION; MOLDED CASE BREAKERS ARE NOT ACCEPTABLE. THE DISCONNECTING MEANS SHALL HAVE A LABEL MARKED "DG SOURCE DISCONNECT".
- H. THE "DG SOURCE FUSED DISCONNECT SWITCH" SHALL BE EQUIPPED WITH A DUAL-LOCKING SYSTEM ACCEPTABLE TO HYDRO OTTAWA.
- I. REFER TO HYDRO OTTAWA, REVENUE METERING SPECIFICATION GCS0008, FOR SINGLE-PHASE APPROVED 4-JAW METER SOCKET BASES, AND FOR THREE-PHASE APPROVED 7-JAW METER SOCKET BASES.
- J. REFER TO HYDRO OTTAWA SPECIFICATION MCS0057 FOR WIRING DETAIL.
- K. CUSTOMER/CONTRACTOR SHALL POST A PERMANENT LAMACOID PLATED SINGLE LINE DIAGRAM (SLD) AT THE DISTRIBUTED GENERATION (DG) SYSTEM FUSED DISCONNECT SWITCH TO INDICATE THE LAYOUT OF THE INSTALLATION. THIS SLD MUST BE PLAINLY AND PERMANENTLY MARKED IDENTIFYING THE SWITCHING ARRANGEMENTS, THE LOCATIONS OF THE DISCONNECTS, AND THE TYPE AND NAMEPLATE CAPACITY OF THE DISTRIBUTED GENERATOR.
- L. POSTING OF A LAMACOID PLATED LABEL AT THE DG SOURCE FUSED DISCONNECT SWITCH INDICATING THE GENERATOR:
 - i. RATED OPERATING CURRENT AND VOLTAGE.
 - ii. RATED OPEN CIRCUIT VOLTAGE.
 - iii. RATED SHORT CIRCUIT CURRENT.
- M. THE RATING IS BASED ON THE GENERATION FACILITY NAMEPLATE RATING. HOWEVER, FOR INVERTED BASED SYSTEMS, INDICATE THE RATING OF THE GENERATION SOURCE ARRAY AND INVERTER.
- N. HYDRO OTTAWA LABEL WITH NOMENCLATURE SHALL BE APPLIED TO BOTH THE "DG SYSTEM FUSED DISCONNECT SWITCH" AND DG SOURCE FUSED DISCONNECT SWITCH".
- O. HYDRO OTTAWA WARNING LABEL "TWO POWER SOURCES" SHALL BE APPLIED TO THE METER SOCKET BASE AND SPLITTER TROUGH.
- P. THREE-PHASE DG WILL BE ACCEPTED ON TO HYDRO OTTAWA'S GROUNDED WYE (4 WIRE) SYSTEM AND NOT ON TO HYDRO OTTAWA'S DELTA (3-WIRE) SYSTEM.

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; MOLDED 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; MOLDED 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		PREP	CHKD	APPD	TITLE
REV: 1	DATE: 2014-09-03	SK	SMC	CSM	ENGINEERING SPECIFICATION
CHANGE: 1	UPDATE NOTES				
REV: 2	DATE: 2016-02-05	JD	SMC	CSM	ERF 1PH OR 3PH ≤ 400A GENERATOR SUB-SERVICE WITH METERING CENTRE
CHANGE: 2	UPDATE NOTES				
REV: 1	DATE: 2011-08-20				CONSTRUCTION DETAIL
CHANGE: 1	UPDATE TITLE				