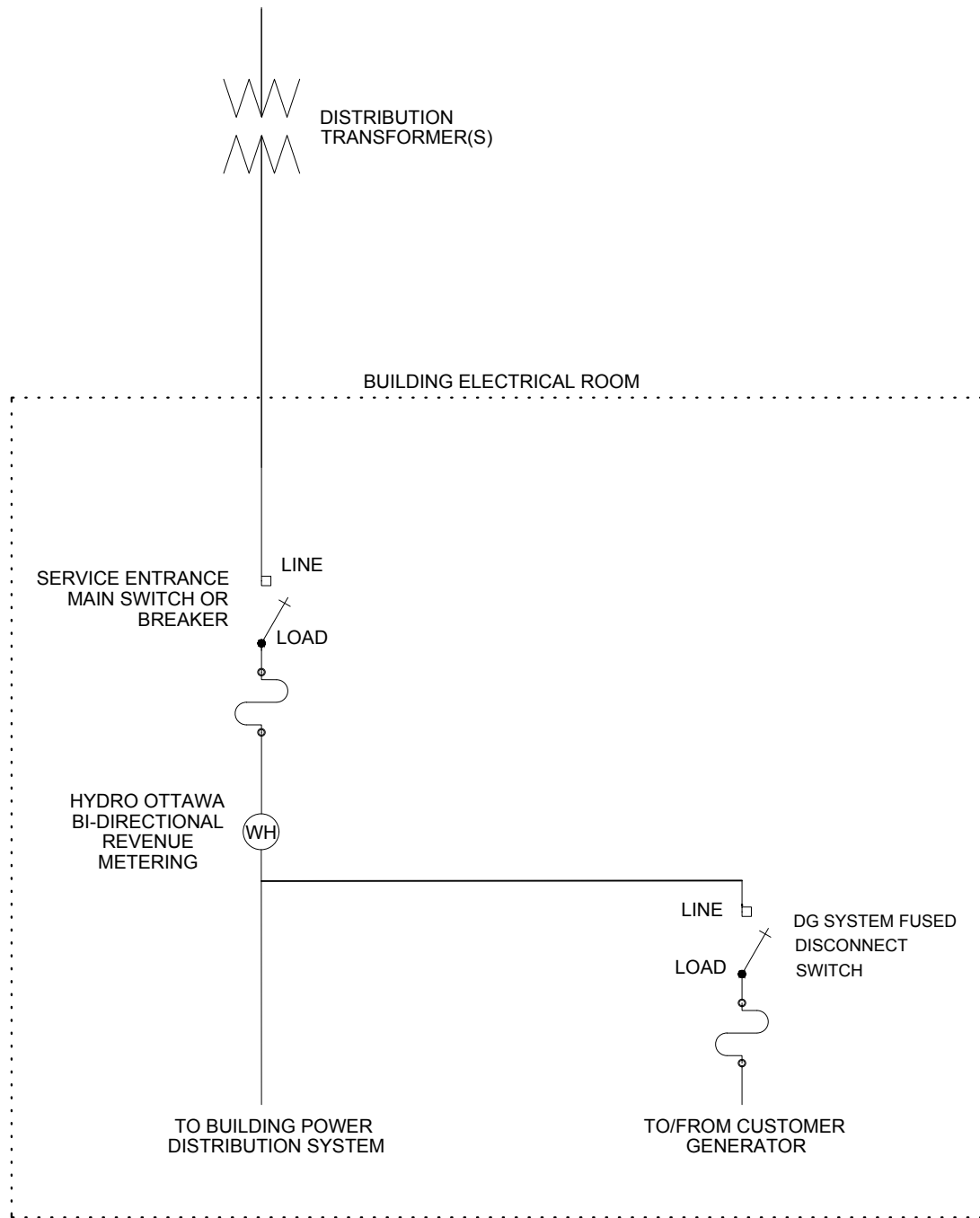


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SEE APPENDIX 'F' OF THE OEB DISTRIBUTION SYSTEM CODE FOR GENERATION, FACILITY & CUSTOMER TYPES.



NOTES:

- A. THE PROPOSED INSTALLATION SHALL COMPLY WITH HYDRO OTTAWA ENGINEERING STANDARDS AND THE ONTARIO ELECTRICAL SAFETY CODE. EXISTING SERVICES SHALL MEET CURRENT HYDRO OTTAWA STANDARDS.
- B. SUBMIT THE PROPOSED DESIGN TO HYDRO OTTAWA FOR COMMENT PRIOR TO ESA PLAN APPROVAL SUBMISSION. THE PROPOSED DESIGN SUBMISSION SHALL INCLUDE:
 - i. ELECTRICAL SINGLE LINE DIAGRAM TO SHOW PROPOSED CHANGES PLUS COMMON AND AFFECTED EXISTING BUILDING DISTRIBUTION SYSTEM.
 - ii. ELECTRICAL ROOM FLOOR PLAN LAYOUT.
 - iii. SCALED ELEVATED DETAIL OF THE ELECTRICAL ROOM
- C. HYDRO OTTAWA SHALL NOT ACCEPT DIRECT OR INDIRECT RESPONSIBILITY FOR CHANGES TO THE EXISTING UTILITY OWNED EQUIPMENT AND/OR BUILDING DISTRIBUTION EQUIPMENT DUE TO THE PROPOSED GENERATION.
- D. FOR THREE-PHASE GENERATORS, PHASE CURRENTS SHALL BE BALANCED WITHIN 15% OF EACH OTHER.
- E. DG INSTALLATIONS ON THREE-PHASE SUPPLY POINTS SHALL BE THREE-PHASE GENERATORS . IF ANY PHASE(S) ON THE DISTRIBUTION GRID OR FROM THE DG SOURCE IS OUT OF ELECTRICAL TOLERANCE SPECIFICATION, ALL THREE DG PHASES SHALL BE ISOLATED FROM GENERATING INTO THE DISTRIBUTION GRID.
- F. GENERATORS TO MEET HYDRO OTTAWA'S POWER QUALITY SPECIFICATION, ECG0008, INCLUDING THE REQUIREMENTS OF CSA C22.2 No. 257.
- G. METERING EQUIPMENT WILL BE SIZED TO THE FUSED DISCONNECT SWITCH RATING AND, NOT THE FUSE SIZE.
- H. HYDRO OTTAWA LIMITS THE NUMBER OF GANGED SINGLE PHASE METER BASE SOCKETS TO A MAX OF 6. GREATER THAN 6 METERS THAT ARE TO BE GANGED, REQUIRE A METERING CENTER WITH A DISTINCT MAIN SWITCH/BREAKER AS PER HYDRO OTTAWA'S CONDITIONS OF SERVICE, ECS0012, AND HYDRO OTTAWA DOCUMENT GCS0008.
- I. ENGINEERING SINGLE LINE DRAWING SHALL BE SIGNED, DATED, AND SEALED BY A PROFESSIONAL ENGINEER FOR:
 - i. MULTI-RESIDENTIAL (2+ UNITS) PREMISES.
 - ii. ALL COMMERCIAL PREMISES.
 - iii. SINGLE RESIDENTIAL PREMISE WITH > 10kW DG.
- J. MINIMUM OF 1500 [5'] OF CLEARANCE REQUIRED IN FRONT OF ALL METERING EQUIPMENT.
- K. THE PARALLEL CONNECTION SHALL NOT BE TERMINATED IN THE REVENUE METERING CELL FOR THE CUSTOMER OWNED EQUIPMENT, IF SWITCHGEAR IS USED.
- L. THE DG SYSTEM FUSED DISCONNECT SHALL HAVE FACTORY INSTALLED OVER-CURRENT PROTECTION AS PER HYDRO OTTAWA SPECIFICATION GCS0008.

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REVISIONS			PREP	CHKD	APPD	TITLE		
REV:	DATE:					 www.HYDROOTTAWA.COM	ENGINEERING SPECIFICATION SINGLE LINE DIAGRAM GENERAL SECONDARY SERVICE WITH LOAD DISPLACEMENT ERF > 500 kW AND ≤10 MW CONSTRUCTION DETAIL	
CHANGE:					PREP: E. VEH			
					CHKD: R. HARRINGTON			
REV:	DATE:					APPD: E. DONKERSTEEG P.Eng	NO: GDS0018	
CHANGE:						DATE: 2018-06-11		
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