



NOTES:

- A. THE PROPOSED INSTALLATION SHALL COMPLY WITH HYDRO OTTAWA LIMITED (HOL) ENGINEERING STANDARDS AND THE ONTARIO ELECTRICAL SAFETY CODE.
- B. MCB ENCLOSURE SIZE TO BE 914 mm x 610 mm x 406 mm [36" H x 24" W x 16" D].
- C. 1.5 METRE OF WORKING CLEARANCE IS REQUIRED IN FRONT OF THE ENCLOSURE
- D. MCB TO BE LOCATED WHERE CONNECTION TO CUSTOMER OWNED CONTACTOR, PT'S AND CT'S DOES NOT EXCEED 30 m [100 ft] IN LENGTH. MCB TO BE LOCATED IN AN ELECTRICAL ROOM ACCESSIBLE TO HYDRO OTTAWA PERSONNEL.
- E. MCB CONTROL OF CUSTOMER CONTACTOR / BREAKER MUST FUNCTION AS FOLLOWS:
 - LATCHING OF THE BLOCK / CLOSE RELAY MUST OPEN THE CONTACTOR / BREAKER
 - RESETTING OF THE BLOCK/CLOSE RELAY MUST PERMIT THE CONTACTOR / BREAKER TO CLOSE
 - CLOSE COMMAND FOR THE CONTACTOR / BREAKER MUST COME FROM CUSTOMER CONTROL SYSTEM
 - MAXIMUM CONTROL CIRCUIT RATING OF 125V AC/DC, 10A
- F. MCB MONITORING CIRCUIT OF CUSTOMER CONTACTOR / BREAKER AUXILIARY CONTACT IS 24VDC.
- G. IF THERE IS AN INTERMEDIATE TRANSFORMER BETWEEN THE GENERATOR CONNECTION AND THE UTILITY SUPPLY POINT, THE LOSS OF PHASE PROTECTION (LOP) MUST BE LOCATED ON THE UTILITY SIDE OF THE TRANSFORMER. THE DG SOURCE FUSED DISCONNECT MAY BE INSTALLED ON THE GENERATOR SIDE OF THE TRANSFORMER.
- H. MCB SHALL BE CONNECTED TO A DEDICATED 15 A 120 VAC SUPPLY FROM MAIN SERVICE ENTRANCE PANEL, UPSTREAM FROM GENERATION CONNECTION. THE SUPPLY MUST REMAIN POWERED WHILE GENERATION IS OUT OF SERVICE.
- I. CUSTOMER OWNED CURRENT TRANSFORMERS ARE REQUIRED FOR CONNECTION TO MCB.
- J. CUSTOMER OWNED POTENTIAL TRANSFORMERS ARE REQUIRED FOR VOLTAGES GREATER THAN 120/208 V FOR CONNECTION TO MCB.
- K. ALL WIRING BETWEEN CUSTOMER EQUIPMENT AND MCB TO BE SUPPLIED AND INSTALLED BY CUSTOMER. CONNECTIONS INSIDE MCB UNIT TO BE COMPLETED BY HOL CREWS.
- L. CUSTOMER TO INSTALL HOL PROVIDED ANTENNA AT A LOCATION WHERE COMMUNICATION IS AVAILABLE.
- M. DG SOURCE FUSED DISCONNECT TO MEET REQUIREMENTS OF OESC AND MUST BE LOCATED IN AN ELECTRICAL ROOM ACCESSIBLE TO HYDRO OTTAWA PERSONNEL.
- N. MCB ENCLOSURE TO BE MOUNTED 1500 mm MINIMUM AND 2000 mm MAXIMUM FROM FINISHED FLOOR TO TOP OF CABINET.
- O. CONTACTOR / BREAKER CONTROL FOR INSTALLATIONS ≥ 200kW. SPACE FOR FUTURE ADDITION OF CONTACTOR / BREAKER CONTROL FOR INSTALLATIONS < 200kW.

LAST SAVED: 2019-03-29 9:52 AM

REVISIONS			PREP	CHKD	APPD	TITLE	
REV: CHANGE:	DATE:					 ENGINEERING SPECIFICATION HOL MONITORING AND CONTROL BOX (MCB) INSTALLATION FOR < 500 kW ERF CONSTRUCTION DETAIL	
REV: CHANGE:	DATE:						
REV: CHANGE:	DATE:						
PREP: E. VEH CHKD: E. DONKERSTEEG P.Eng APPD: B. HAZLETT P.Eng DATE: 2018-03-22 SCALE: N.T.S. @ ANSI B						NO:	1 OF 1 REV: 0