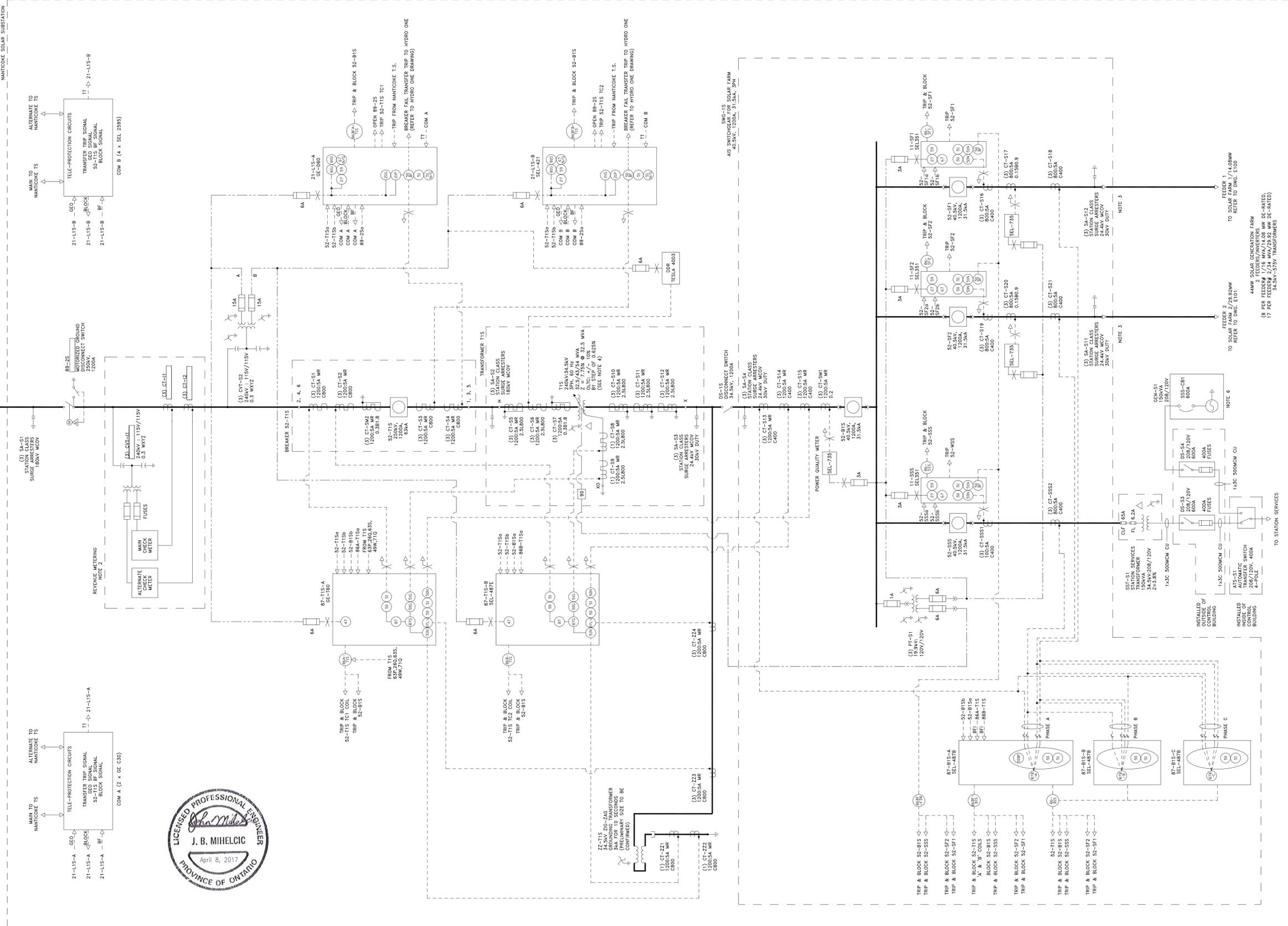


Attachment 3b



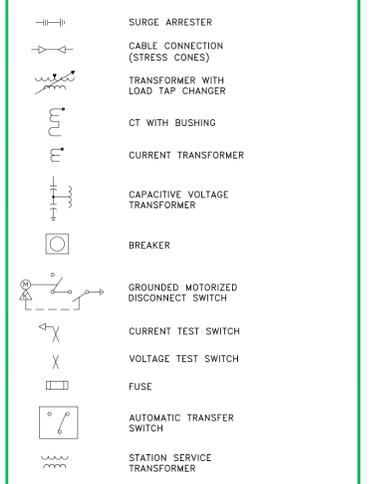
THE COPYRIGHT OF THIS DRAWING IS VESTED IN CHARLES G. TURNER & ASSOCIATES LTD. AND IT MAY NOT BE REPRODUCED IN WHOLE OR PART OR USED FOR THE MANUFACTURE OF ANY ARTICLE WITHOUT THE EXPRESS PERMISSION OF THE COPYRIGHT HOLDERS.

WORK TO FIGURED DIMENSIONS ONLY.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT CGTA'S DRAWINGS AND SPECIFICATIONS.

- REFERENCE NO: REFERENCE DRAWING TITLE:
- NOTES:
- NOMENCLATURE WITH A BOX REPRESENTS HYDRO ONE EQUIPMENT NUMBER.
 - DESIGN AND SPECIFICATION TO BE PROVIDED BY A HON/IESO CERTIFIED METERING PROVIDER.
 - 34.5kV GROUNDING TRANSFORMER MAYBE REQUIRED ON FEEDERS.
 - TRANSFORMER HV WINDING CONFIGURATION AND GROUNDING TO BE CONFIRMED WITH HYDRO ONE AND IESO.
 - REFER TO HYDRO ONE RELAY PROTECTION DRAWINGS.
 - CONNECTION TO HYDRO ONE (FORMERLY HALDIMAND HYDRO) SUBJECT TO FURTHER STUDY TO REPLACE BACK-UP GENERATOR.

- LEGEND:
- 21/21N: LINE DISTANCE RELAY
 - 26: OIL THERMAL DEVICE
 - 26Q: LIQUID TEMPERATURE OIL
 - 27: UNDERVOLTAGE RELAY
 - 46: NEGATIVE PHASE SEQUENCE RELAY
 - 47: PHASE BALANCE VOLTAGE RELAY
 - 49: WINDING THERMAL RELAY
 - 49T: WINDING TEMPERATURE OIL
 - 50B: BREAKER FAILURE
 - 50P/51P: PHASE OVERCURRENT RELAY
 - 50/51N: NEUTRAL OVERCURRENT RELAY
 - 52: CIRCUIT BREAKER
 - 53: OVERVOLTAGE RELAY
 - 59N: NEUTRAL OVERVOLTAGE RELAY
 - 63: PRESSURE SWITCH
 - 63P: GAS PRESSURE RELIEF
 - 63Q: GAS ACCUMULATION OIL
 - 67/67N: DIRECTIONAL OVERCURRENT RELAY
 - 71: TRANSFORMER OIL LEVEL TRIP
 - 71Q: LIQUID LEVEL OIL
 - 81Q: OVERFREQUENCY RELAY
 - 81S: UNDERFREQUENCY RELAY
 - 85: LOCK-OUT RELAY
 - 87: DIFFERENTIAL PROTECTION
 - 90: VOLTAGE REGULATOR
 - 90: GENERATOR END OPEN
 - TT: TRANSFER TRIP



A	PRELIMINARY ISSUED FOR IESO SIA HYDRO ONE CIA	DW	17/04/08
REV:	DESCRIPTION:	BY:	DATE:

STATUS: **PRELIMINARY - NOT FOR CONSTRUCTION**

CGTA
CHARLES G. TURNER & ASSOCIATES LTD.
CONSULTING ENGINEERS

60 VENTURE DRIVE, UNIT #2, TORONTO, ONTARIO, M1B 3S4
PHONE: (416)-283-5995 FAX: (416)-283-5996
WEBSITE: www.cgtoeng.com

CLIENT:	NANTICOKE SOLAR NANTICOKE ROAD NANTICOKE, ONTARIO NOA 1L0		
PROJ:	NANTICOKE SOLAR PROJECT IN HALDIMAND COUNTY, NANTICOKE, ONTARIO		
TITLE:	NANTICOKE SOLAR SUBSTATION SINGLE LINE DIAGRAM		
SCALE:	(D-SIZE)	DATE:	CHECKED:
PROJECT NO:	NTS	17/04/08	JM
DRAWING NO:	2264-E-1	DW	REVISION:
			A