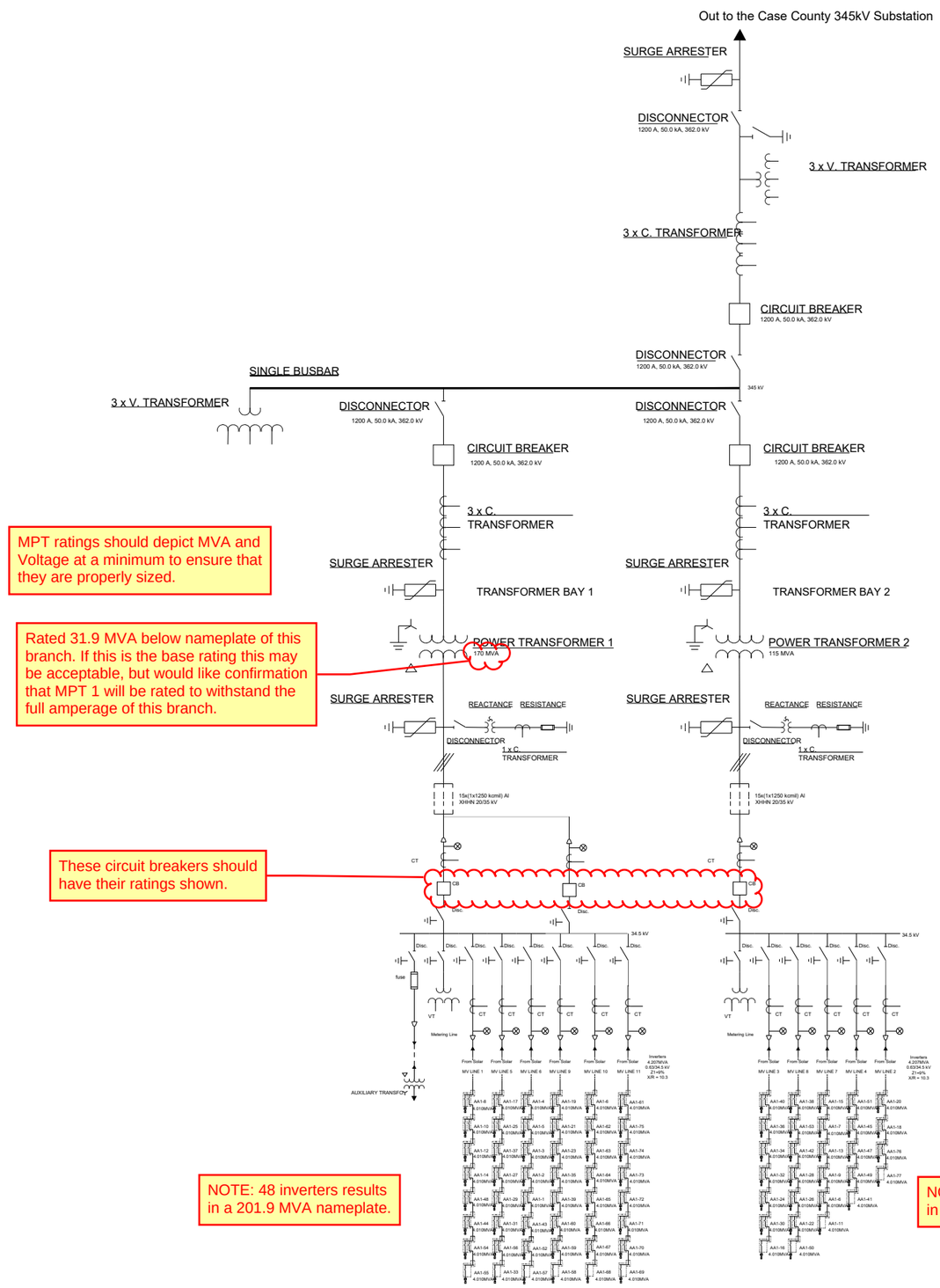

MPT ratings should depict MVA and Voltage at a minimum to ensure that they are properly sized.

Rated 31.9 MVA below nameplate of this branch. If this is the base rating this may be acceptable, but would like confirmation that MPT 1 will be rated to withstand the full amperage of this branch.

These circuit breakers should have their ratings shown.

NOTE: 48 inverters results in a 201.9 MVA nameplate.

NOTE: 29 inverters results in a 122.0 MVA nameplate.

The HV system is 345kV

Notes

354.0/35.0 kV simple busbar is an outdoor air-insulated substation. 35.0 kV switchgear is indoor type. The buses are 7.87/7.24 in

CHARACTERISTICS OF THE HV: 354.0 kV
Maximum voltage for the system: 362.0 kV
Lightning withstand voltage: 975.0 kV
Short-circuit level: 50.0 kA
Number of transformer bays: 2
Number of output bays: 1
Substation arrangement: simple busbar

CHARACTERISTICS OF THE MV/HV:
354.0/35.0 kV
Number of power transformers: 2

CHARACTERISTICS OF THE MV: 35.0 kV
Number of output lines: 2
Number of incoming lines: 11
MV cubicles arrangement: simple busbar
Maximum voltage for the system: 36.2 kV
Lightning withstand voltage: 150.0 kV
Short-circuit level: 25.0 kA

Legend

- Circuit breaker
- Current Transformer
- Disconnector
- Earthing Disconnector
- Fuse
- Grounding Device
- Surge arrester
- Voltage Detector
- Three Phase
- Voltage transformer
- Power transformer

REV	DESCRIPTION	BY	DATE
02	BESS REMOVAL/UPDATE SPECS	BSB	2024-09-27
01	BESS ADD	KHA	2024-06-12
00	FIRST VERSION	RP	2024-05-28

FOR INFORMATION ONLY

RatedPower
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NextEra Energy

PROJECT:
Cass County Solar

DRAWING:
Simple Busbar - Substation SLD

SCALE:	SHEET:
Not to scale	1 / 1
REVISION: 02	DATE: 2024-09-27

DIN A3