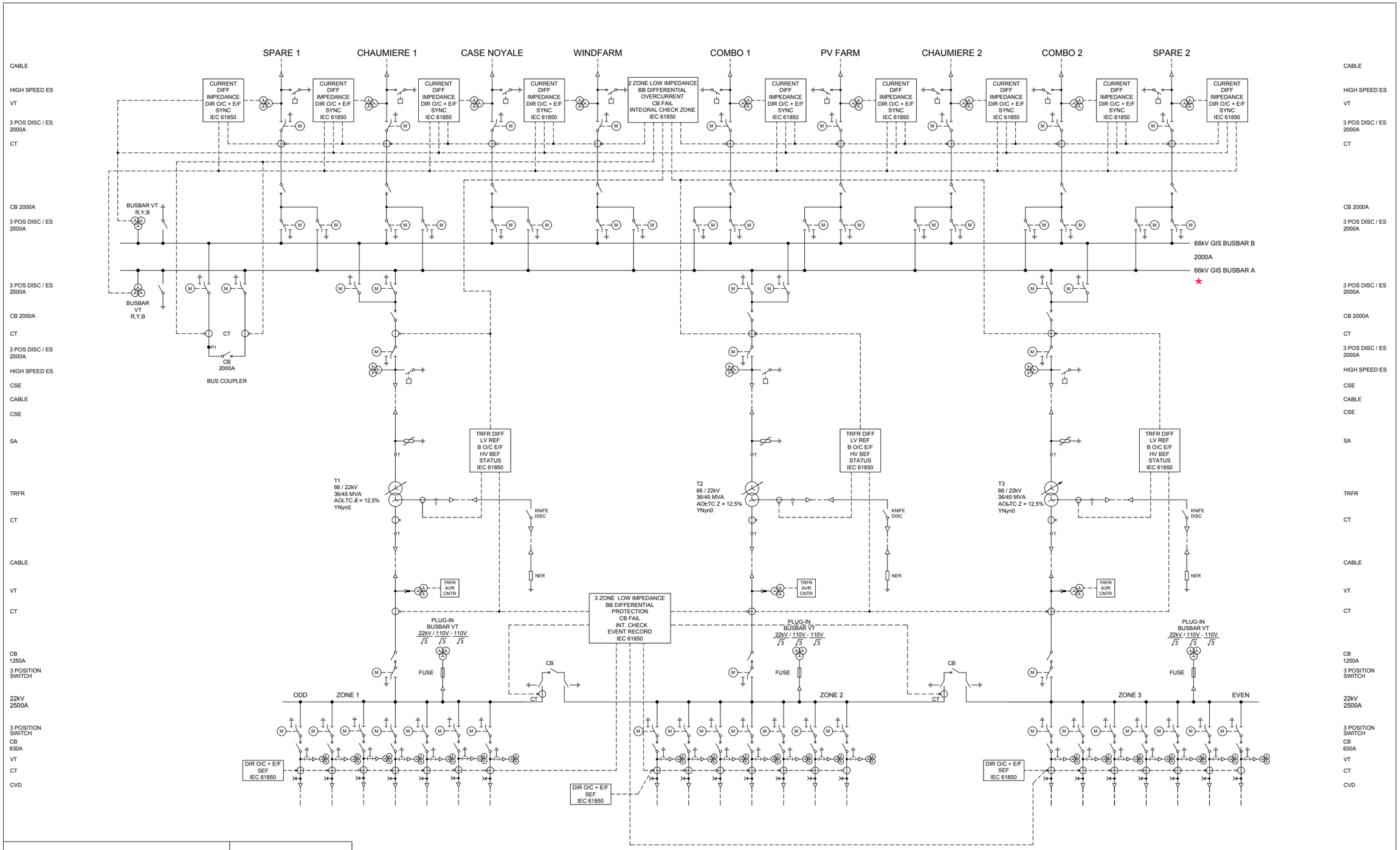
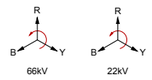


	66kV	22kV
NOMINAL VOLTAGE	66kV	22kV
RATED VOLTAGE	72.5kV	24kV
POWER FREQUENCY WITHSTAND	140kV	50kV
BASIC INSULATION LEVEL	325kVp	145kVp
BUSBAR RATING	2000A	2500A
EQUIPMENT SHORT CIRCUIT RATING	40kA 1s	25kA 1s
FAULT RATING	TBC	TBC
DESIGN TEMPERATURE RANGE	-5.6 : +40°C OUTDOOR 0 : +40°C INDOOR	
ALTITUDE	< 1050 m asl	
NEUTRAL EARTHING		NER 350A 10s

VECTOR RELATIONSHIP



PHASE ROTATION 'STANDARD ACW'

66kV VTs :

1. FEEDER VTs :-
   $\frac{66kV}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$
   50VA Cl.0.2 (METERS/INDICATION)
   50VA Cl.0.2 (METERS/INDICATION)
   50VA Cl.3P (PROTECTION)
2. BUSBAR VTs :-
   $\frac{66kV}{\sqrt{3}} / \frac{110V}{\sqrt{3}} / \frac{110V}{\sqrt{3}}$
   50VA Cl.0.2 (METERS)
   50VA Cl.3P (PROTECTION)

KEY :

- - - - - CT / VT CIRCUITS

NOTES:

1. * Location For Provision Of Future Busbar Extension.
2. It Is The Resposibility Of The Bidder To Design and Define The Arrangement Of The Gas-Tight Partitioning and Isolating Links To Achieve The Required 66kV GIS Service Continuity.

CENTRAL ELECTRICITY BOARD

Central Electricity Board

Rev. A COMBO 2 ADDED 12/11/2018	Date: 04.09.2018	HENRIETTA 66/22kV SUBSTATION SINGLE LINE AND PROTECTION DIAGRAM	
Rev. B REVISED DRAWING	Drawn: Y.L		
Rev. C Updated Drawing 29.08.19 by Y.L	Chkd: M.P.N		
Rev. D Notation of phase rotation changed - 24.09.19	Appd: B.S/N.E	Scale: N.T.S	DRAWING No. CEB/GIS-19/22
Rev. E Amendment of 22kV Busbar rating in Notes - 31.01.2020			