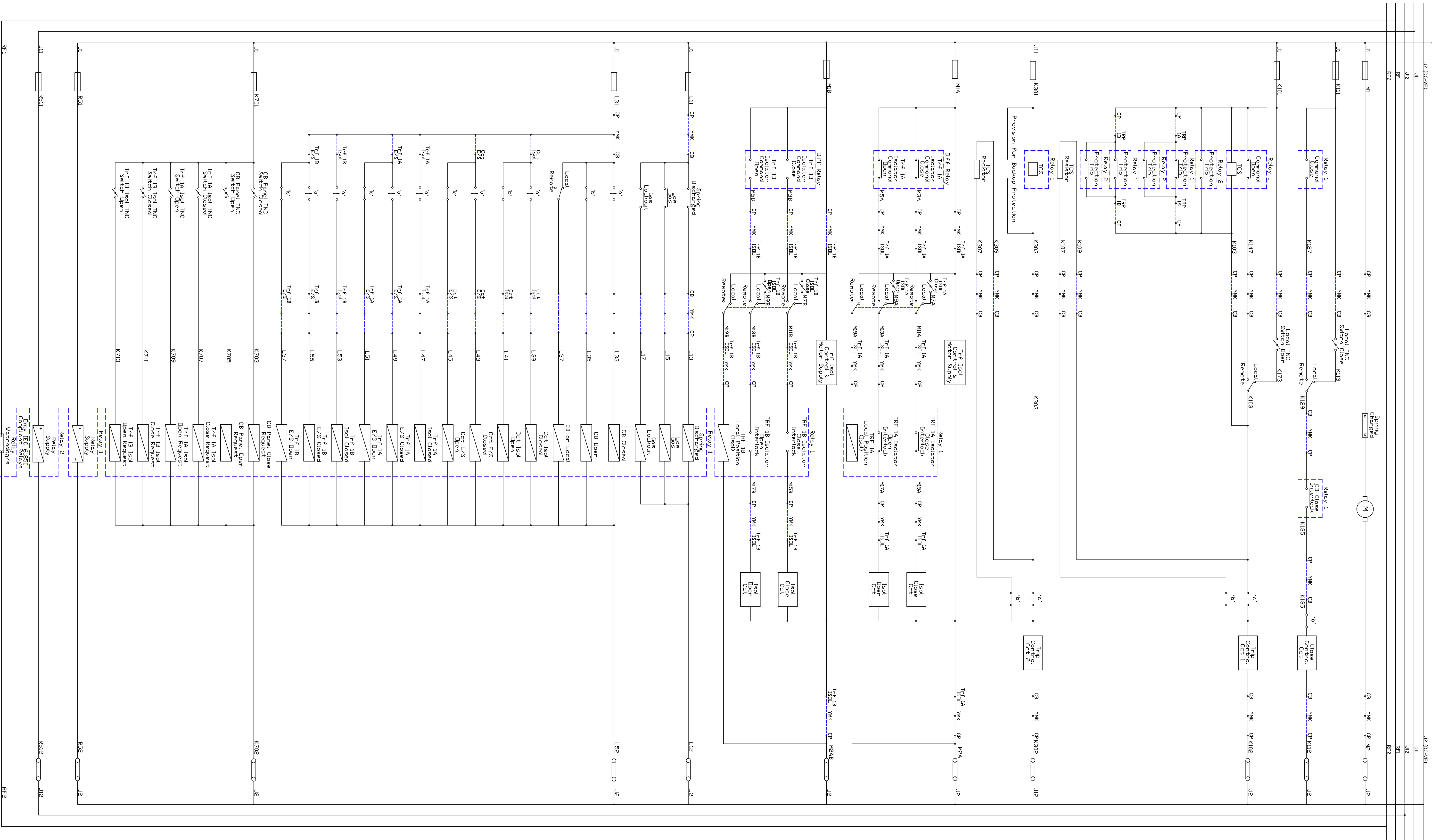
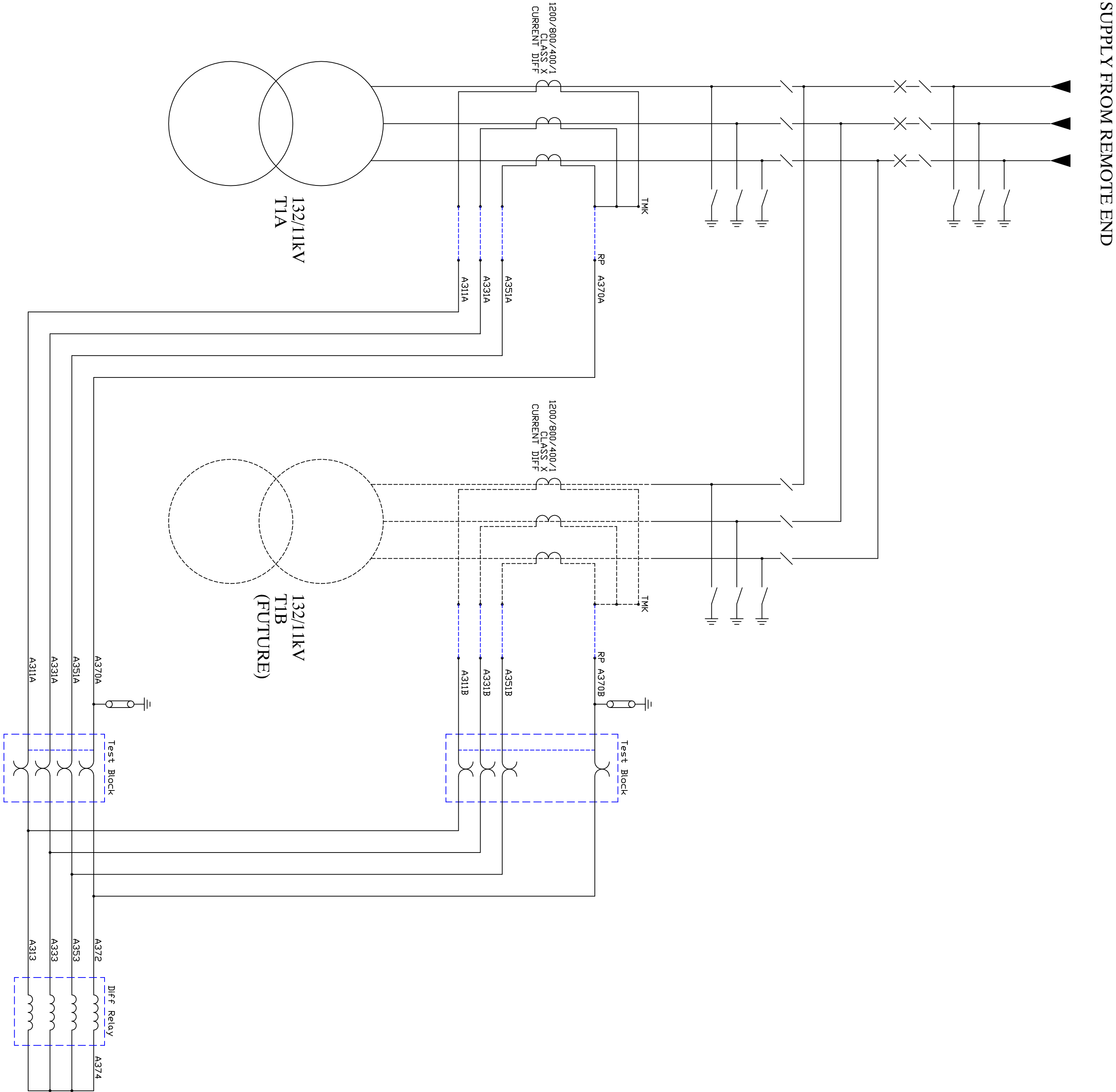


DC Schematic



AC Schematic



LEGEND	
CP	Control Panel
TRP	Transformer Relay Panel
TKK	Terminal Mounting Kiosk
E/S	Earth Switch
ISOL	Isolator
CB	Circuit Breaker
B1	Busbar 1
B2	Busbar 2
ARC	Auto Reclose
ICS	Trip Circuit Supervision
PS	Push Button
PTB	Pilot Board
W	Contact which is Closed when Primary Equipment is Open
W	Contact which is Open when Primary Equipment is Closed
W	False
W	Link
W	Push Button
W	Relay Digital Input
W	Relay Analog Input
W	Normally Open Contact
W	Normally Closed Contact
W	Current Transformer

NOTES:

1. The drawing is to clarify the requirements of the associated contract/primary specification. The issue of this with the specification does not constitute an acceptance of the design. The design is the responsibility of the engineer.

2. All relays have been shown de-energised with switches open.

3. This drawing will enable the different contractors to coordinate their work and ensure that the different contractors are aware of the requirements of the contract/primary specification. The issue of this with the specification does not constitute an acceptance of the design. The design is the responsibility of the engineer.

4. Test blocks have been shown schematically. The actual wiring must be from the left, 'RED', 'WHITE' and 'BLUE' as viewed from the front of the test block.

5. Circuitry marked 'S' is only required if differential relay make & model has been specified to match remote end and is not IEC 61850 compliant.

6. Contacts and inputs marked 'S' must all be contained in the same relay.

REV	DATE	BY	CHKD	APP'D	REVISION
1	20/10/2020	1	1	1	1
FHEWEN ELECTRICITY					
PROPOSED 132KV SUBSTATION WITH COMBINED					
132KV FEEDERS & TRANSFORMER FEEDERS					
AC & DC SCHEMATIC FOR 132KV					
PROTECTION & CONTROL					
REV	DATE	BY	CHKD	APP'D	REVISION
1	20/10/2020	1	1	1	1