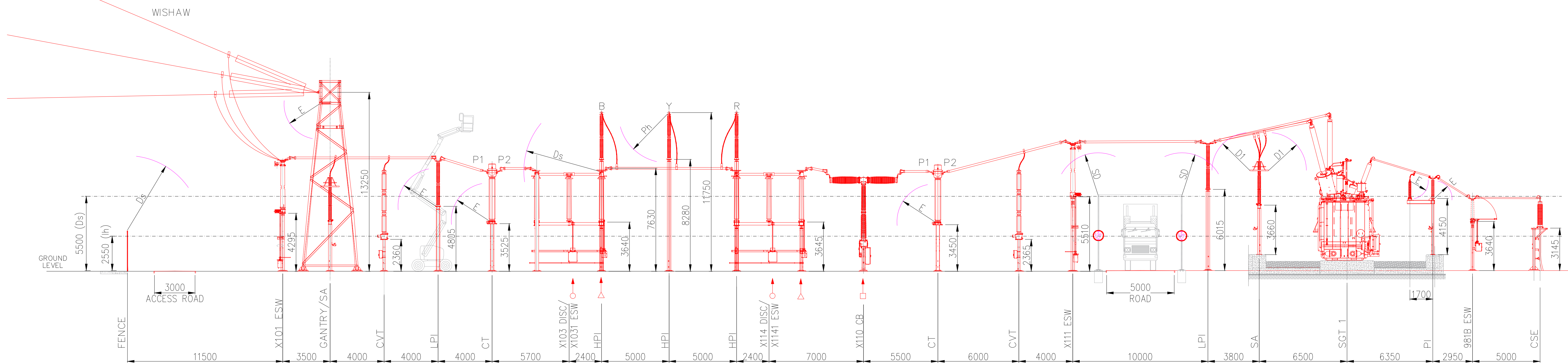
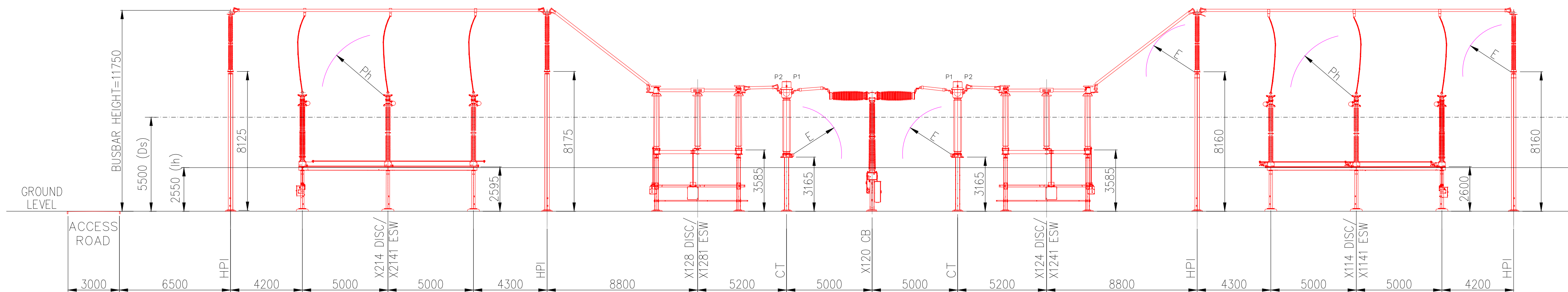
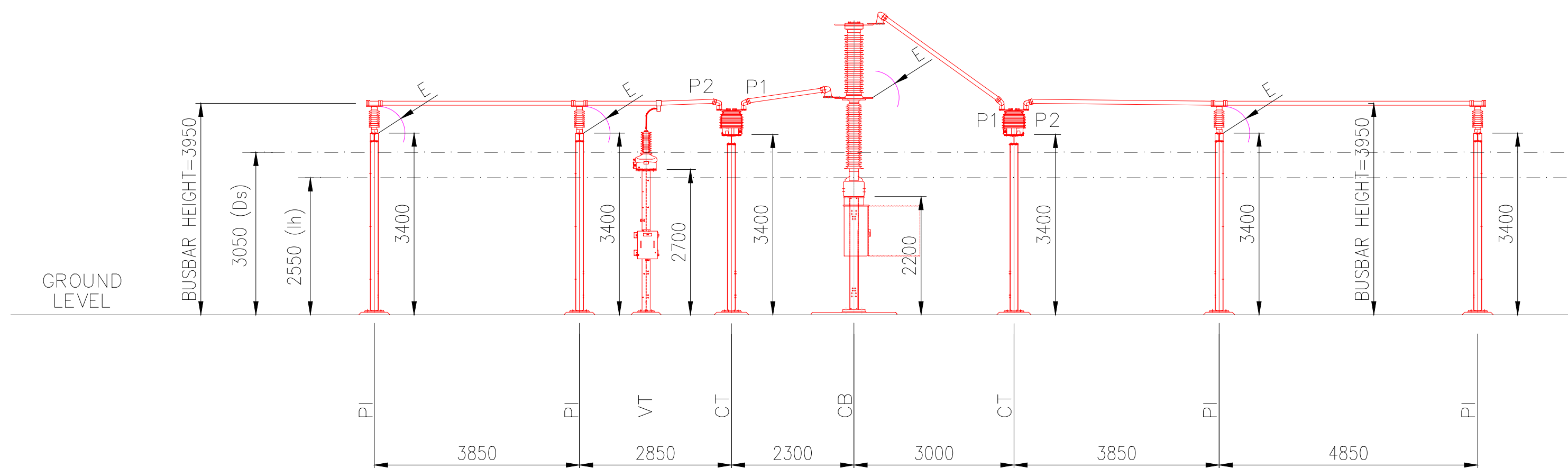




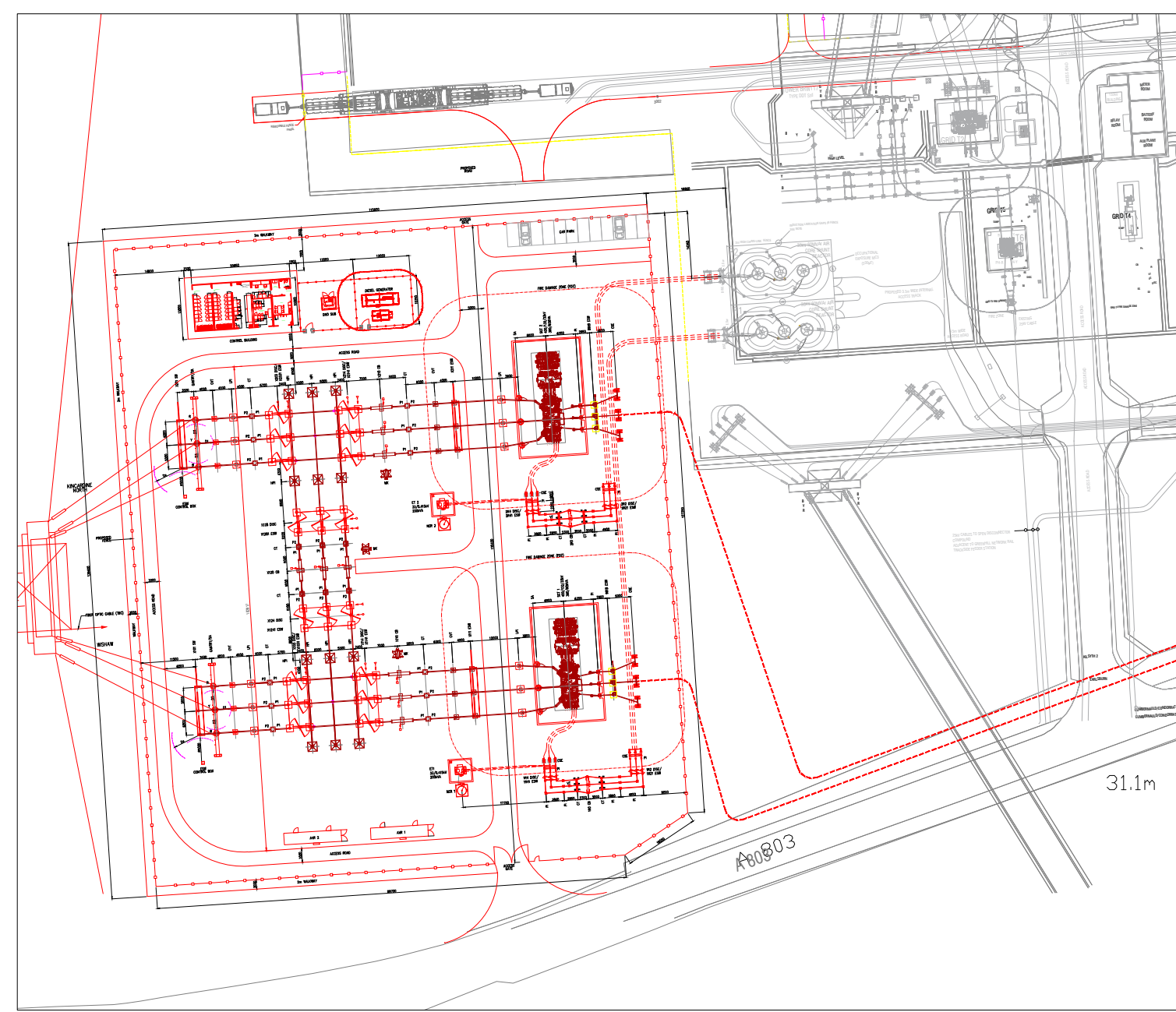
SECTION A-A
(SCALE 1:150)



SECTION B-B
(SCALE 1:150)



SECTION C-C
(SCALE 1:75)



LOCATION PLAN
SCALE 1:1250

ASSOCIATED DRAWINGS:

22119-BHK-BONN-SUB-D-E-000101	400KV ELECTRICAL SUBSTATION LAYOUT
B11733-2-8800-DK-SPITEE-3001	PROPOSED SWITCHGEAR NUMBERING FOR BONNYBRIDGE 400KV SUBSTATION
ET11A100940	HYOSUNG (TRANSFORMER OUTLINE)

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- ALL EQUIPMENT UPGRADE WORKS SHALL BE AS PER OFFLINE BUILD (18.07.2025).
- DESIGN OF ALL NEW PRIMARY PLANT EQUIPMENT AND SYSTEMS SHALL BE AS PER EPS-03-033 & ASSET-02-005.
- ALL NEW MAIN PLANT PROPOSED IS SHOWN INDICATIVE TO BE UPDATED UPON RECEIPT OF CONTRACT GAS IN AUTOCAD FORMAT.
- ELECTRO-MECHANICAL LOADING TO BE VERIFIED UPON RECEIPT OF CONTRACT GA's.
- TO BE UPDATED ONCE OHL DESIGN HAS BEEN SUITABLY PROGRESSED INLINE WITH GANTRY.
- EQUIPMENT CONTROL BOX LOCATIONS (TBC) ON RECEIPT OF MANUFACTURE DRAWINGS.
- EXISTING PLANT TO BE REMOVED/REPLACED ARE NOT SHOWN FOR CLARITY.
- CONTROL BUILDING CONSIDER AS MODULAR TYPE HOWEVER TO BE CONFIRMED IN STAGE 1B.
- 132KV CABLE ROUTE AND ARRANGEMENTS TO BE CONFIRMED IN STAGE 1B.
- 33KV CABLE SEALING END ARRANGEMENT TO BE CONFIRMED IN STAGE 1B.

400KV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
CB	CIRCUIT BREAKER	9	TBC	TBC	TBC
SGT	SUPER GRID TRANSFORMER	2	TBC	TBC	TBC
DISC/YESW	DISCONNECTOR WITH 1 EARTH SWITCH	6	TBC	TBC	TBC
ESW	3 PHASE EARTH SWITCH	4	TBC	TBC	TBC
CVT	CAPACITIVE VOLTAGE TRANSFORMER	12	TBC	TBC	TBC
CT	CURRENT TRANSFORMER	18	TBC	TBC	TBC
SA	SURGE ARRESTER	12	TBC	TBC	TBC
LPI	POST INSULATOR	12	TBC	TBC	TBC
HPI	HIGH POST INSULATOR	12	TBC	TBC	TBC

132KV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
CSE	CABLE SEALING END	12	TBC	TBC	TBC
ESW	EARTH SWITCH	2	TBC	TBC	TBC
PI	POST INSULATOR	6	TBC	TBC	TBC

33KV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
CB	3 PHASE CIRCUIT BREAKER	2	TBC	TBC	TBC
CSE	CABLE SEALING END	6	TBC	TBC	TBC
DISC/YESW	3 PHASE DISCONNECTOR WITH 1 EARTH SWITCH	4	TBC	TBC	TBC
VT	VOLTAGE TRANSFORMER	2	TBC	TBC	TBC
CT	CURRENT TRANSFORMER	12	TBC	TBC	TBC
PI	POST INSULATOR	36	TBC	TBC	TBC

LEGENDS & ABBREVIATIONS:

SGT	SUPER GRID TRANSFORMER
CB	CIRCUIT BREAKER
DISC	DISCONNECTOR
ESW	EARTH SWITCH
CT	CURRENT TRANSFORMER
VT	VOLTAGE TRANSFORMER
SA	SURGE ARRESTER
PI	POST INSULATOR
ET	EARTHING TRANSFORMER
NER	NEUTRAL EARTHING RESISTOR
AVR	AUTOMATIC VOLTAGE REGULATOR

—	PROPOSED MAIN PLANT
—	EXISTING MAIN PLANT
—	CLEARANCE & SAFETY DISTANCES
—	DISCONNECTOR MECH. BOX
—	EARTH SWITCH MOTOR/MANUAL MECH. BOX
—	CIRCUIT BREAKER MECH. BOX

Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes	Fig. No.
P01	12/06/2025	POCAAK	SJ	US	FIRST ISSUE	
Project: DWNO - DENNY TO WISHAW NETWORK OPTIMISATION						400/132/33KV ELECTRICAL SUBSTATION ELEVATIONS
Location: BONNYBRIDGE						
Project: DWNO - DENNY TO WISHAW NETWORK OPTIMISATION						22119-BHK-BONN-SUB-D-E-000201
Revision: 01						P01
Scale: AS SHOWN						Sheet 01
Size: A0						