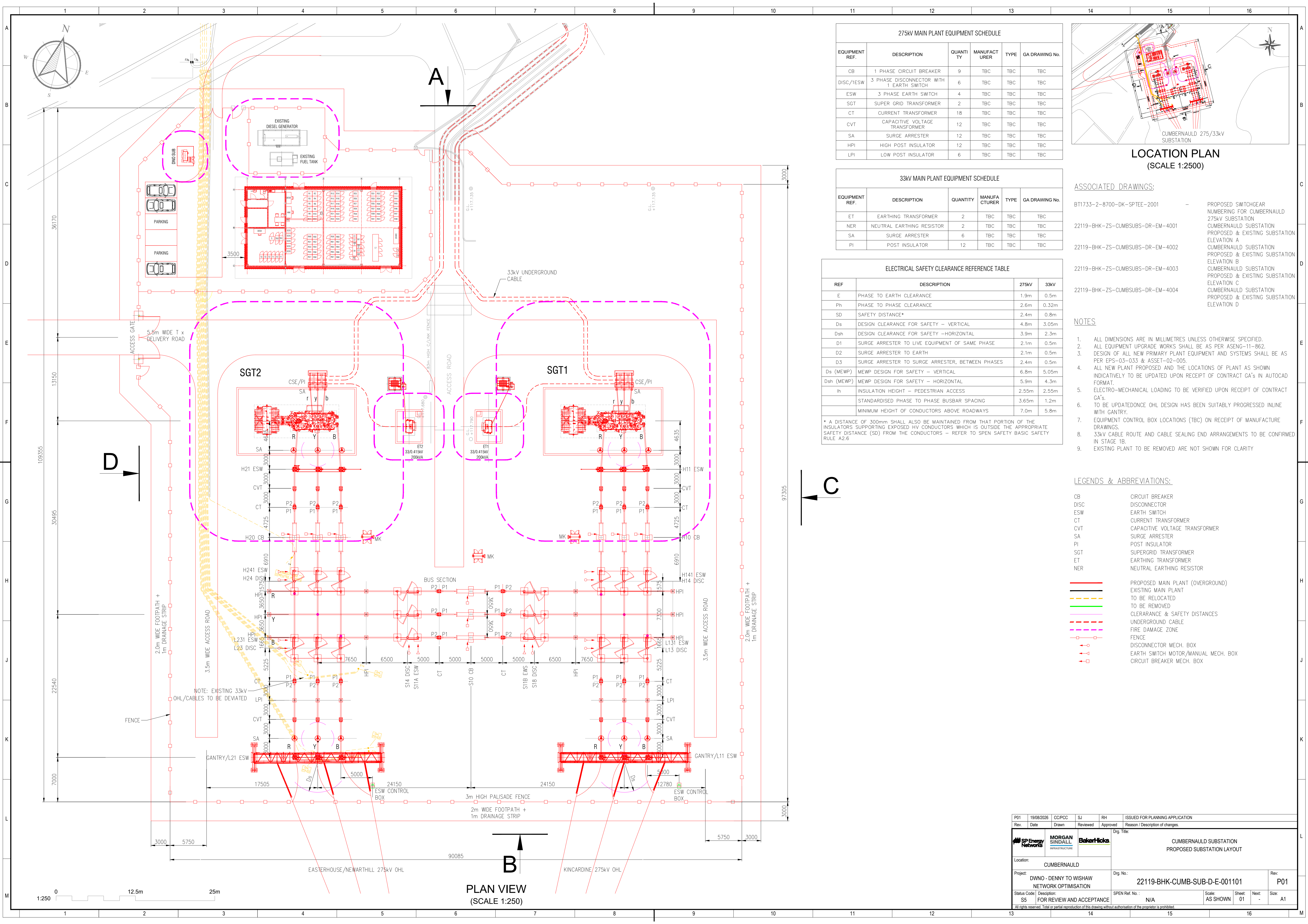
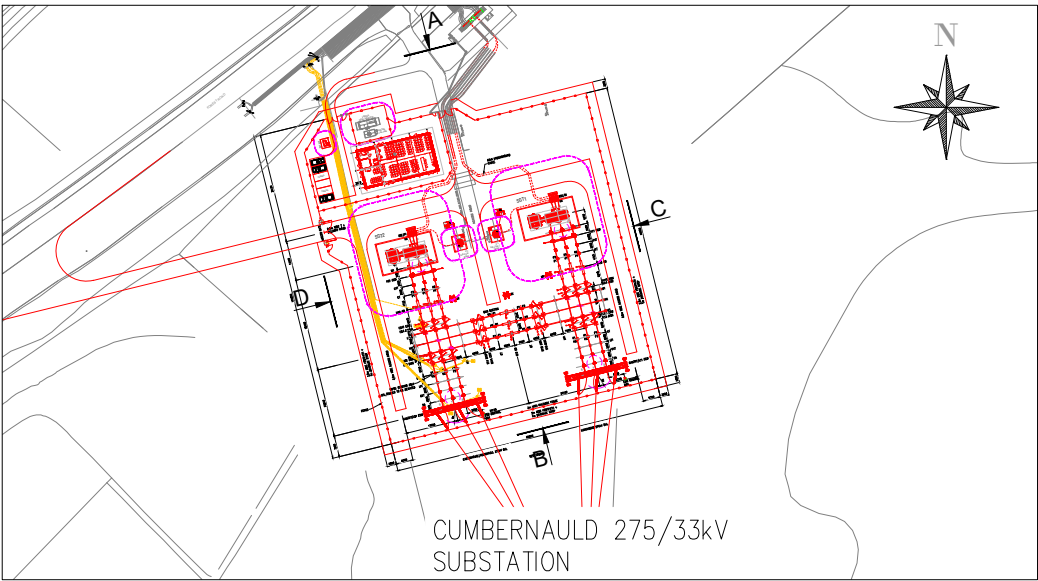




275KV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF.	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
CB	1 PHASE CIRCUIT BREAKER	9	TBC	TBC	TBC
DISC/IESW	3 PHASE DISCONNECTOR WITH 1 EARTH SWITCH	6	TBC	TBC	TBC
ESW	3 PHASE EARTH SWITCH	4	TBC	TBC	TBC
SGT	SUPER GRID TRANSFORMER	2	TBC	TBC	TBC
CT	CURRENT TRANSFORMER	18	TBC	TBC	TBC
CVT	CAPACITIVE VOLTAGE TRANSFORMER	12	TBC	TBC	TBC
SA	SURGE ARRESTER	12	TBC	TBC	TBC
HPI	HIGH POST INSULATOR	12	TBC	TBC	TBC
LPI	LOW POST INSULATOR	6	TBC	TBC	TBC

33KV MAIN PLANT EQUIPMENT SCHEDULE					
EQUIPMENT REF.	DESCRIPTION	QUANTITY	MANUFACTURER	TYPE	GA DRAWING No.
ET	EARTHING TRANSFORMER	2	TBC	TBC	TBC
NER	NEUTRAL EARTHING RESISTOR	2	TBC	TBC	TBC
SA	SURGE ARRESTER	6	TBC	TBC	TBC
PI	POST INSULATOR	12	TBC	TBC	TBC

ELECTRICAL SAFETY CLEARANCE REFERENCE TABLE				
REF	DESCRIPTION	275KV	33KV	
E	PHASE TO EARTH CLEARANCE	1.9m	0.5m	
Ph	PHASE TO PHASE CLEARANCE	2.6m	0.32m	
SD	SAFETY DISTANCE*	2.4m	0.8m	
Ds	DESIGN CLEARANCE FOR SAFETY - VERTICAL	4.8m	3.05m	
Dsh	DESIGN CLEARANCE FOR SAFETY -HORIZONTAL	3.9m	2.3m	
D1	SURGE ARRESTER TO LIVE EQUIPMENT OF SAME PHASE	2.1m	0.5m	
D2	SURGE ARRESTER TO EARTH	2.1m	0.5m	
D3	SURGE ARRESTER TO SURGE ARRESTER, BETWEEN PHASES	2.4m	0.5m	
Ds (MEWP)	MEWP DESIGN FOR SAFETY - VERTICAL	6.8m	5.05m	
Dsh (MEWP)	MEWP DESIGN FOR SAFETY - HORIZONTAL	5.9m	4.3m	
Ih	INSULATION HEIGHT - PEDESTRIAN ACCESS	2.55m	2.55m	
	STANDARDISED PHASE TO PHASE BUSBAR SPACING	3.65m	1.2m	
	MINIMUM HEIGHT OF CONDUCTORS ABOVE ROADWAYS	7.0m	5.8m	
* A DISTANCE OF 300mm SHALL ALSO BE MAINTAINED FROM THAT PORTION OF THE INSULATORS SUPPORTING EXPOSED HV CONDUCTORS WHICH IS OUTSIDE THE APPROPRIATE SAFETY DISTANCE (SD) FROM THE CONDUCTORS - REFER TO SPEN SAFETY BASIC SAFETY RULE A2.6				



LOCATION PLAN
(SCALE 1:2500)

- ASSOCIATED DRAWINGS:
- | | |
|----------------------------------|---|
| BT1733-2-8700-DK-SPTEE-2001 | PROPOSED SWITCHGEAR NUMBERING FOR CUMBERNAULD 275KV SUBSTATION |
| 22119-BHK-ZS-CUMBSUBS-DR-EM-4001 | CUMBERNAULD SUBSTATION PROPOSED & EXISTING SUBSTATION ELEVATION A |
| 22119-BHK-ZS-CUMBSUBS-DR-EM-4002 | CUMBERNAULD SUBSTATION PROPOSED & EXISTING SUBSTATION ELEVATION B |
| 22119-BHK-ZS-CUMBSUBS-DR-EM-4003 | CUMBERNAULD SUBSTATION PROPOSED & EXISTING SUBSTATION ELEVATION C |
| 22119-BHK-ZS-CUMBSUBS-DR-EM-4004 | CUMBERNAULD SUBSTATION PROPOSED & EXISTING SUBSTATION ELEVATION D |

- NOTES
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
 - ALL EQUIPMENT UPGRADE WORKS SHALL BE AS PER ASENG-11-862.
 - DESIGN OF ALL NEW PRIMARY PLANT EQUIPMENT AND SYSTEMS SHALL BE AS PER EPS-03-033 & ASSET-02-005.
 - ALL NEW PLANT PROPOSED AND THE LOCATIONS OF PLANT AS SHOWN INDICATIVELY TO BE UPDATED UPON RECEIPT OF CONTRACT GA's IN AUTOCAD FORMAT.
 - ELECTRO-MECHANICAL LOADING TO BE VERIFIED UPON RECEIPT OF CONTRACT GA's.
 - TO BE UPDATEDONCE OHL DESIGN HAS BEEN SUITABLY PROGRESSED INLINE WITH GANTRY.
 - EQUIPMENT CONTROL BOX LOCATIONS (TBC) ON RECEIPT OF MANUFACTURE DRAWINGS.
 - 33kV CABLE ROUTE AND CABLE SEALING END ARRANGEMENTS TO BE CONFIRMED IN STAGE 1B.
 - EXISTING PLANT TO BE REMOVED ARE NOT SHOWN FOR CLARITY

- LEGENDS & ABBREVIATIONS:
- | | |
|------|-------------------------------------|
| CB | CIRCUIT BREAKER |
| DISC | DISCONNECTOR |
| ESW | EARTH SWITCH |
| CT | CURRENT TRANSFORMER |
| CVT | CAPACITIVE VOLTAGE TRANSFORMER |
| SA | SURGE ARRESTER |
| PI | POST INSULATOR |
| SGT | SUPERGRID TRANSFORMER |
| ET | EARTHING TRANSFORMER |
| NER | NEUTRAL EARTHING RESISTOR |
| — | PROPOSED MAIN PLANT (OVERGROUND) |
| — | EXISTING MAIN PLANT |
| — | TO BE RELOCATED |
| — | TO BE REMOVED |
| — | CLERANCE & SAFETY DISTANCES |
| — | UNDERGROUND CABLE |
| — | FIRE DAMAGE ZONE |
| — | FENCE |
| — | DISCONNECTOR MECH. BOX |
| — | EARTH SWITCH MOTOR/MANUAL MECH. BOX |
| — | CIRCUIT BREAKER MECH. BOX |

P01	19/08/2026	CC/PCC	SJ	RH	ISSUED FOR PLANNING APPLICATION	
Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes.	
				Drg. Title:		
				CUMBERNAULD SUBSTATION PROPOSED SUBSTATION LAYOUT		
Location:		CUMBERNAULD				
Project:		DWNO - DENNY TO WISHAW NETWORK OPTIMISATION		Drg. No.:		Rev:
				22119-BHK-CUMB-SUB-D-E-001101		P01
Status Code:	Description:			SPEN Ref. No. :	Scale:	Sheet :
S5	FOR REVIEW AND ACCEPTANCE			N/A	AS SHOWN	01
				Next :	Size:	
				-	A1	
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