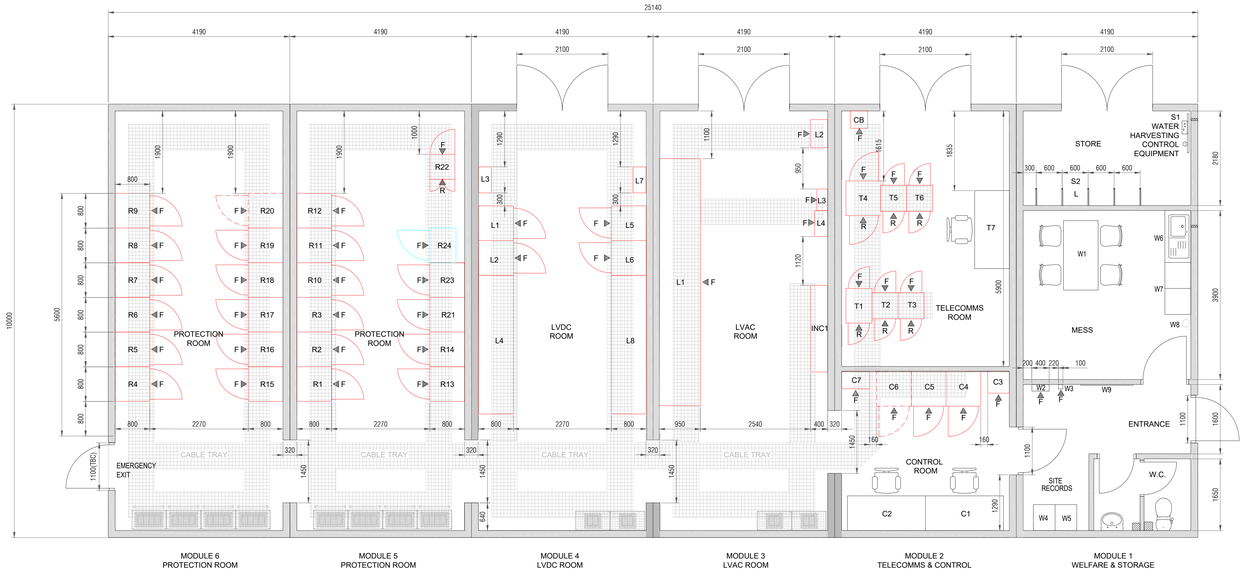
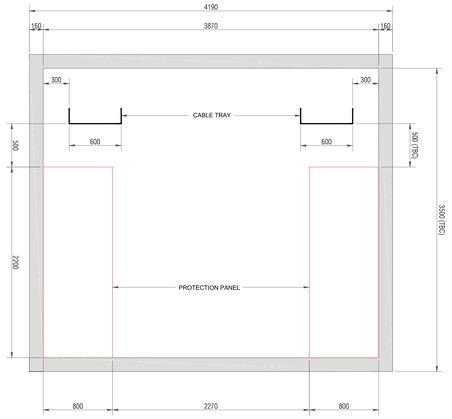
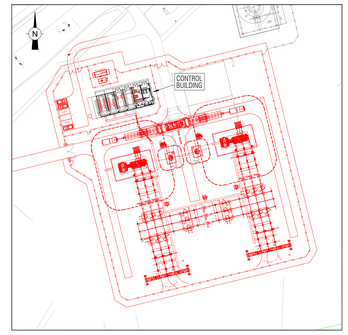


PLAN VIEW
(SCALE 1:50)



TYPICAL INTERNAL SECTION
(SCALE 1:25)



KEY PLAN
(SCALE 1:1000)

MODULE 1: WELFARE AND STORAGE ROOM			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
S1	STORMSAVER WATER HARVESTING CONTROL UNIT SUPPORT RAILS	TBC	F
S2	5 No HEAVY DUTY PORTABLE EARTH STORAGE "L" BRACKETS	–	L
W1	MESS TABLE AND 4 CHAIRS	800x1600	–
W2	COMPOUND LIGHTING CONTROL BOX	400x150	F
W3	LIGHTING SWITCH FOR SUBSTATION LIGHTING (SIZE TBC)	100x100	F
W4	FILING CABINET	600x500	F
W5	FILING CABINET	600x500	F
W6	SS SINK UNIT WITH INSTANTANEOUS WATER HEATER BELOW	–	–
W7	WORKTOP WITH CUPBOARD BELOW	600x1200	F
W8	WALL MOUNTED FIRE BLANKET	–	–
W9	FELT BACKED ALUMINIUM FRAMED NOTICE BOARD	900x1200	–

MODULE 2: TELECOMMS & CONTROL			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
T1	48V DC CHARGER / BATTERY / DISTRIBUTION BOARD	800x600	F+R
T2	FIBRE TERMINATION CUBICLE 1	600x600	F+R
T3	TELECOM MUX / CISCO CUBICLE	600x600	F+R
T4	SECURITY CONTROL CABINET	800x800	F+R
T5	TELECOM MUX / CISCO CUBICLE (2 No)	600x600	F+R
T6	FUTURE / SPARE	600x600	F+R
T7	DESK	1800x800	F+R
CB	CABLE BOX	400x400	-
C1	DESK	1800x1800	F
C2	DESK HMI	1800x800	F
C3	PRINTER	500x500	F
C4	SCIS RTU	800x800	F
C5	SCIS CTS	800x800	F
C6	KEEP FOR FUTURE	800x800	F
C7	BUILDING SERVICE DISTRIBUTION BOARD No.2	650x400	F

MODULE 3: LVAC ROOM			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
L1	415v LVAC BOARD	4000x950	F
L2	BUILDING SERVICES DISTRIBUTION BOARD No1	650x400	F
L3	230/110V AC TRANSFORMER	500x250	F
L4	110V AC DISTRIBUTION BOARD	600x300	F
INC1	INCOMING SUPPLY METER PANEL	2000x400	F

MODULE 4: LVDC ROOM			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
L1	110V DC BATTERY SYSTEM No 1 – CHARGERS	800x800	F
L2	110V DC DISTRIBUTION BOARD 1	800x800	F
L3	110V DC BATTERY 1 ISOLATION AND FUSE BOX	650x300	F
L4	110V BATTERY SYSTEM No1 – BATTERY (VRLA)	3200x800	F
L5	110V BATTERY SYSTEM No2 – CHARGERS	800x800	F
L6	110V DC DISTRIBUTION BOARD 2	800x800	F
L7	110V DC BATTERY 2 ISOLATION AND FUSE BOX	650x300	F
L8	110V BATTERY SYSTEM No2 – BATTERY (VRLA)	3200x800	F

MODULE 5: PROTECTION ROOM			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
R1	KINC FEEDER – FFPM & INTERTRIPPING	800x800	F
R2	KINC FEEDER – FPSM & INTERTRIPPING	800x800	F
R3	KINC FEEDER – FAULT RECORDER & BUP-VSS-SYNCH-TRR DAR & BF1 & BF2	800x800	F
R10	SGT1 FIRST & SECOND HV PROT	800x800	F
R11	SGT1 FIRST & SECOND HV CONNECTIONS	800x800	F
R12	SGT1 OVERAL & HV REF & LV REF & E.T PROT	800x800	F
R13	SGT1 FAULT RECORDER & BF1 & BF2	800x800	F
R14	SGT1 POW1 & SGT2 POW2	800x800	F
R21	SYS MONITORING PANEL & FAULT RECORDER – LOCAL STORAGE & GPS	800x800	F
R22	B.S.P METERING	576x576x2288	F + R
R23	SPT LOAD MANAGEMENT SYSTEM	800x800x2300	F
R24	SPD DISTRIBUTION MANAGEMENT SYSTEM	800x600x2280	F

MODULE 6: PROTECTION ROOM			
UNIT.	DESCRIPTION	DIMENSION	ACCESS
R4	EERH / NEAR FEEDER – FFPM & INTERTRIPPING	800x800	F
R5	EERH / NEAR FEEDER – FFPM & INTERTRIPPING	800x800	F
R6	EERH / NEAR FEEDER – FAULT RECORDER & BUP-VSS-SYNCH-TRR DAR & BF1 & BF2	800x800	F
R7	MESH CORNER 1 – MCP1 & MCP2	800x800	F
R8	MESH CORNER 2 – MCP1 & MCP2	800x800	F
R9	DAR S10 & BF1 & BF2	800x800	F
R15	SGT2 FIRST & SECOND HV PROT	800x800	F
R16	SGT1 FIRST & SECOND HV CONNECTIONS	800x800	F
R17	SGT1 OVERAL & HV REF & LVR EF & E.T PROT	800x800	F
R18	SGT1 FAULT RECORDER & BF1 & BF2	800x800	F
R19	SGT1 AVC & SGT2 AVC	800x800	F
R20	FUTURE / SPARE	800x800	F

REFERENCE DRAWINGS:

BT1733-2-17JB-DO-SPTEH-0271	400kV CONTROL AND RELAY BUILDING PROPOSED ARRANGEMENT

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. THIS DRAWING IS LIMITED TO A PANEL ARRANGEMENT ONLY.
3. PANEL SIZES ARE INDICATIVE ONLY AND ARE TBC SUBJECT TO DETAIL DESIGN.
4. PANEL QUANTITY MAY CHANGE THROUGHOUT DETAIL DESIGN.
5. MODULES ARE USED IN ACCORDANCE TO SUB-03-041.
6. CONTROL PANELS SHALL BE TOP ENTRY FED AS PER SUB-03-041.
7. CABLE TRAY WIDTH SHALL BE A MINIMUM OF 600mm WIDE FOR LV AND PROTECTION BUILDING MODULES AND 300mm WIDE FOR TELECOMMS MODULES. WEATHER PROOF & FIRE PROOF TO BE FOLLOWED SUB-03-41.
8. CABLES SHALL ENTER/EXIT VIA THE REMOVABLE FLOOR PANELS AND TRAVERSE UP TO / FROM THE HIGH LEVEL CABLE CONTAINMENT VIA A CABLE LADDER.
9. ALL BUILDING DIMENSIONS ARE INDICATIVE ONLY AND ARE TBC BY SUPPLIER.
10. THE SUPPLIER SHALL BE RESPONSIBLE FOR ALL M&E SERVICES, INCLUDING CABLE CONTAINMENT AND ASSOCIATED REQUIREMENTS.

LEGENDS & ABBREVIATIONS:

	PROPOSED MAIN PLANT
	MODULAR BUILDING SCOPE BY OTHERS
	FUTURE PLANT
	PANEL SCOPE BY OTHERS
	REMOVABLE FLOOR PANELS FOR CABLE ENTRY
	600mm WIDE CABLE TRAY
	PANEL ACCESS
F	FRONT
R	REAR
L	LOCKABLE

Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes.
P01	10/03/2026	CMPCC	AS	CG	FIRST ISSUE

SP Energy Networks | MORGAN SINDALL INFRASTRUCTURE | Baker Hicks

Location: CUMBERNAULD

Project: DWNO - DENNY TO WISHAW NETWORK OPTIMISATION

Status Code: S3 | Description: FOR REVIEW & COMMENTS

Drg. Title: 275kV MODULE CONTAINERISED CONTROL BUILDING

Drg. No.: 22119-BHK-CUMB-SUB-D-E-000501 | Rev: P01

SPEN Ref. No. : ..... | Scale: AS SHOWN | Sheet: 01 | Next: - | Size: A0

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