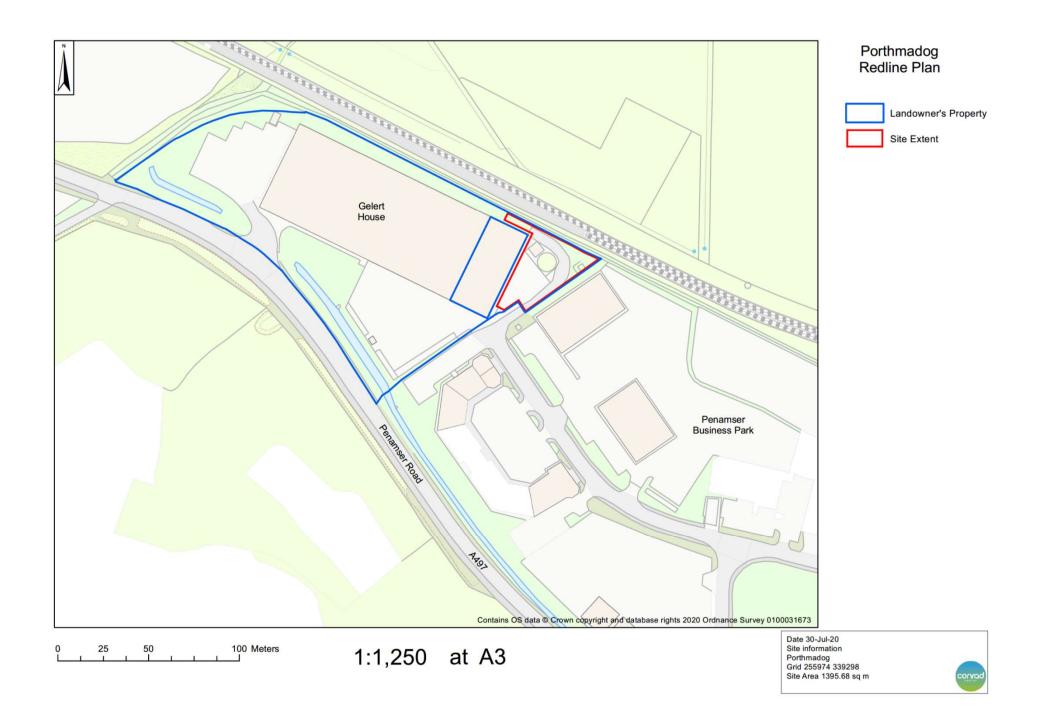
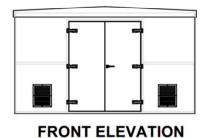
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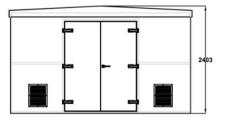
Cais ar gyfer gosod pwerdy ~5MWe nwy wrth gefn gyda isadeiledd cysylltiol

Application for the erection of an ~5MWe gas fired standby power station and associated infrastructure.

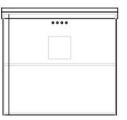
Tir ger Gelert, Penamser, Porthmadog LL49 9NX



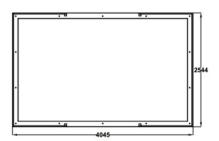




REAR ELEVATION



SIDE ELEVATION



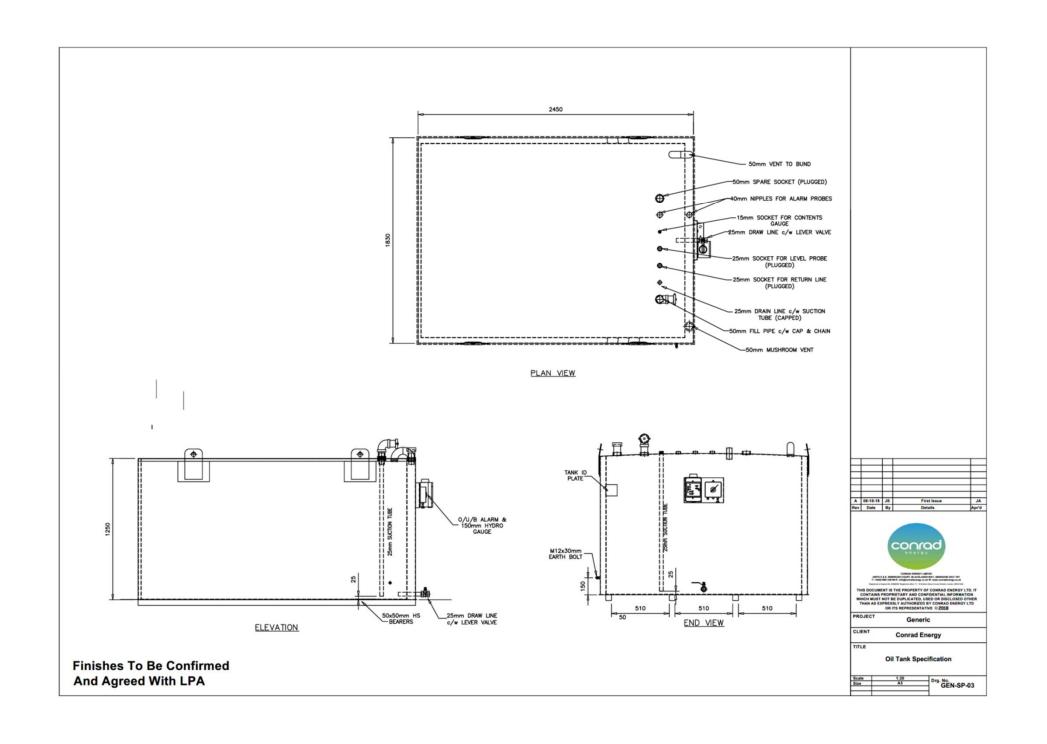
PLAN VIEW

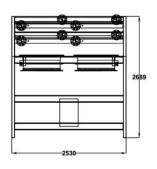


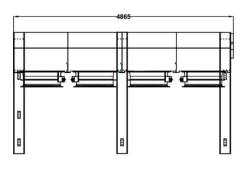
CLIENT Conrad Energy
TITLE
Gas Klosk Specification

1:50 A3 Drg. No. GEN-SP-01

Finishes To Be Confirmed And Agreed With LPA







FRONT/REAR VIEW

SIDE VIEW

Finishes To Be Confirmed And Agreed With LPA

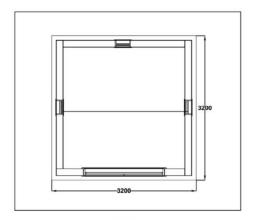




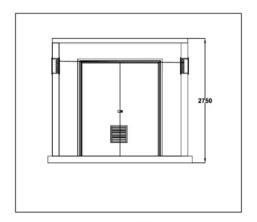
UNITS D.E.E. WINDHUSH COURT, BLACKLANDS WAY, ABMICOON 0221 157 T. 14403 1982 328193 E. Info@correlessings on all W. www.correlessings.on.el

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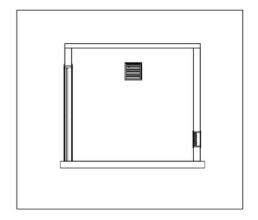
OK IIS REPRESENTATIVE WEULD				
PROJECT	Gen	eric		
CLIENT	Conrad Energy			
TITLE				
	Radiator S	pecification		
Scale	1:50	Dec No.		
Sire	A3	DIG. NO.		



PLAN VIEW



FRONT VIEW



SIDE VIEW

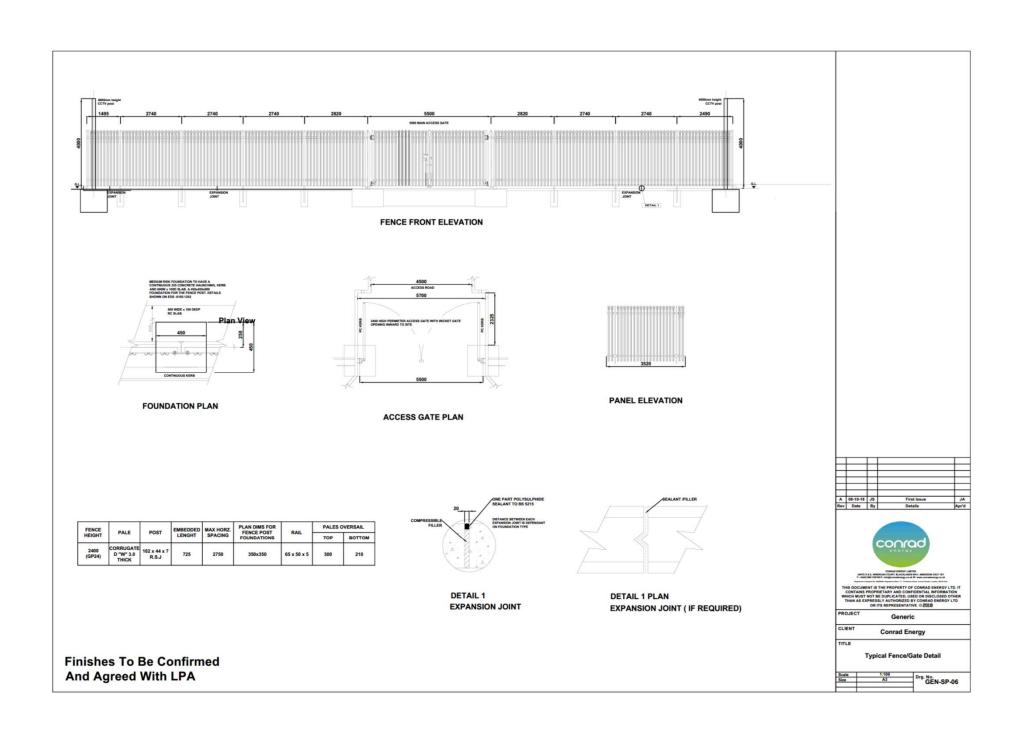
Finishes To Be Confirmed And Agreed With LPA

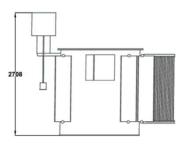


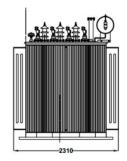


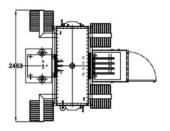
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PROJECT	Generic		
CLIENT	Conrad Energy		
TITLE			
	HV Client S	pecification	









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A	08-10-18	JS	First Issue	JA
Rev	Date	Ву	Details	Apr'd

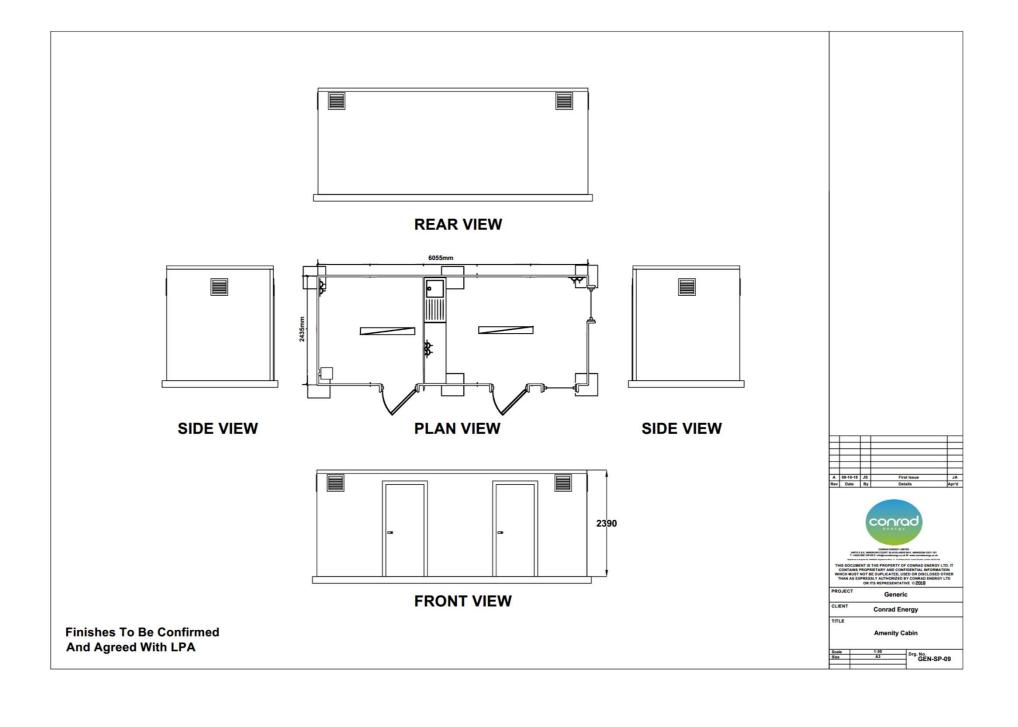


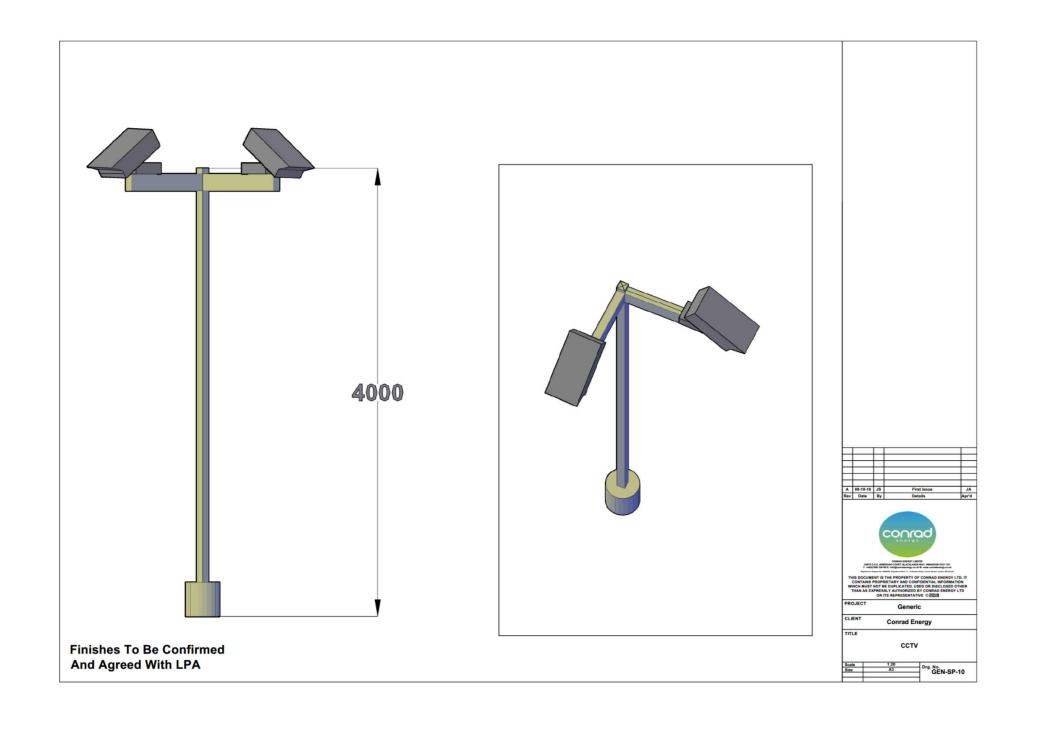
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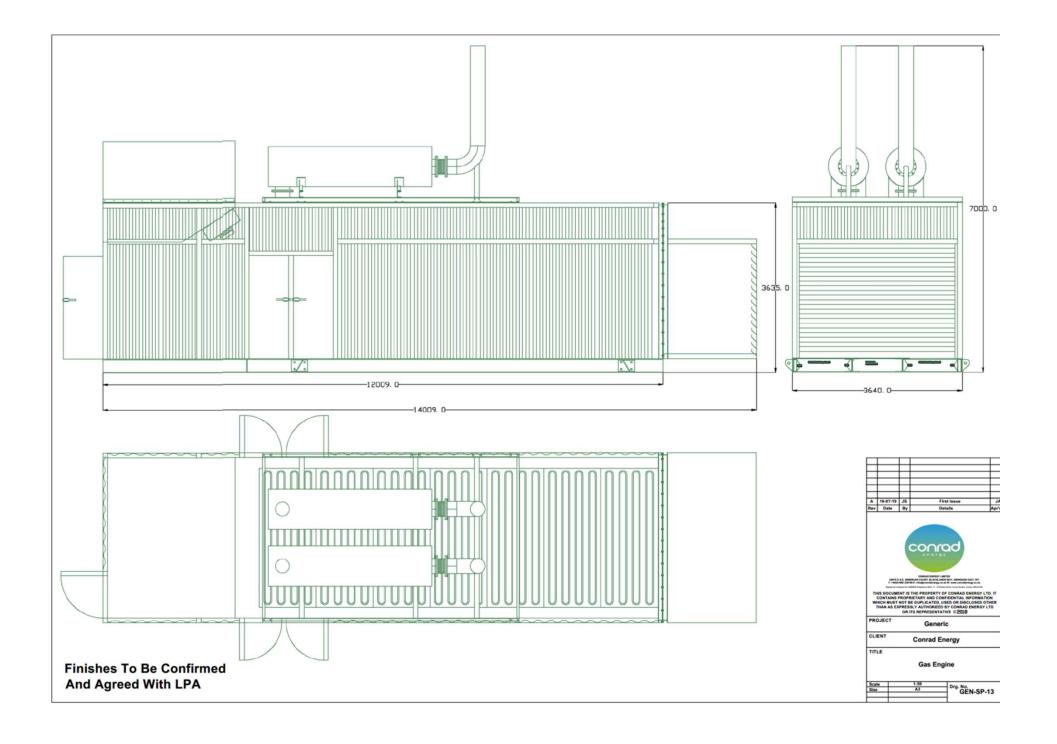
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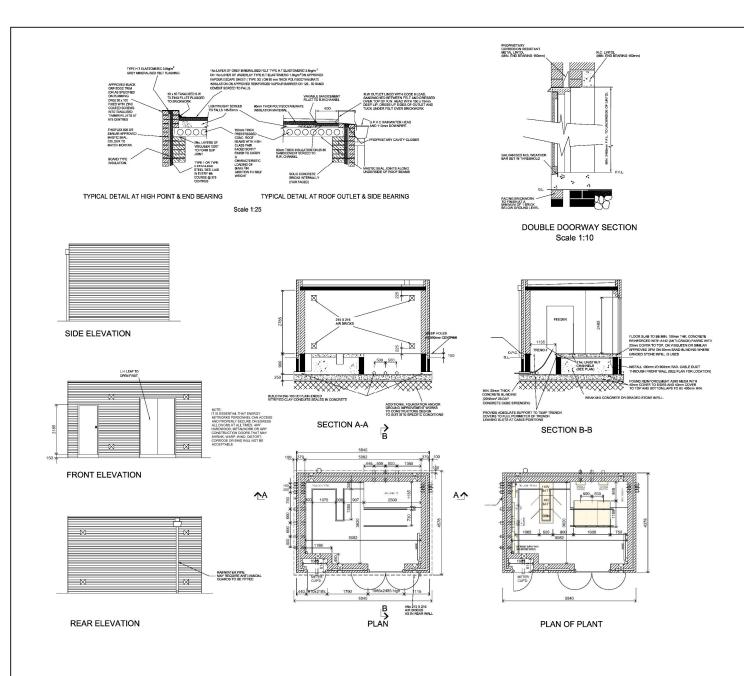
GEN-SP-08

Finishes To Be Confirmed And Agreed With LPA









NOTES

General
This drawing is to be read in conjunction with document SUB-03-017 General Specification for the Civil
Traigneering and Building Design and Construction of Secondary Substations. It is the constructor's
responsibility to confirm, before construction, that the details on this drawing are correct as per
SUB-03-017.

This is a generic guidance drawing that is deemed suitable for construction. However the constructor should consider all site specific risk that will affect the design and operation of the substation. Proposed substation details are to be submitted for acceptance before installation.

Details shown on this drawing are typical for this type of substation building but may not be suitable for substations housing alternative equipment. The constructor shall satisfy themselves that the appropriate details shown are correct depending on the type of substation being constructed.

Owner at The concrete shall be in accordance with the specification and attain the relevant cub crushing strength at 28 days.

Foundations (Concrete 40N/mm* 28-Day Cube Strength)
Foundations are to be set on undisturbed inorganic strata that provide the required minimum design safe ground bearing capacity, to finding managing capacity to be 75kN/m*.

Those Concrete Autyment 2- party Cust-Strength:
Those of advalated housing indoor selectings with all have a visqueen damp proof membrane installed
where graded stone infill is used.
A fill, ireled and more him or selecting the control of plant. Tolerances to finishee lives
A fill, ireled and more him or selecting the control of plant. Tolerances to finishee lives
the fillow shall not exceed a min in in m or 3 min in an . Shorts to be cured, prepared 8 painted with 2
No. Cost of non-live filtor praint or completely control or plant or plant or with 2
No. Cost of non-live filtor praint or completely control or plant o

General All brickwork below D.P.C. to be H.D. category 1 min. 75N/mm² mean compressive strength and max 796 M.A. and durability designation F2 52 (Ex Engineering Brickwork Class B) in English bond except for

exposed faces. External facing pirickwork to be H.D. category 1 min. 30N/mm1 mean compressive strength and max 12% M.A. and durability designation F.I.S. to reletter. Internal facing birkworks for all faced around textured solid concrete birks, saled to match external facing bricks and with a mean compressive strength of not less than 20N/mm1. Case ill mortar.

Walls

Continued to the conference has been found to the first three to the continuents that provides a surturner, standard threat installation used is a recorder or with the table above. The threat led shall be add brickwork construction minimum 215mm overall thickness. Walls shall be fair-fixed pulphas had mosted to the interior.

Leaves of walls to be tied together by means of type 1 or type 2 stainless steel ties laid in every fourth converse at 375mm centers and set both. Stainless

The contract at 375mm centers and set both. Stainless mit on the detaperts are to be staggered.

Doors
Details of proposed doors shall be submitted to SPEN for comment, before work commences.
Proprietary GRP faced aluminium or steel security doors are the preferred option, unless stated otherwise.

An alternative option for hardwood doors (see Drg SP4000543 for details) or GRP doors is also

Cable Trench & Stots/Ramp
On completion of cabling, cable trench to be filled with dry sand and skimmed with minimum 50mm depth of sand/crement screed over a visqueen membrane (top to be level with FR.).

Roof Roofs shall provide a minimum standard thermal insulation values as detailed in the table below.

Roof shall be proprietary precast pre-stressed beam and in situ concrete screed topping systems with a fair-faced soffit finish, scaled joints and with reinforcement to screed where applicable with water proofing as shown in the Typical Detail above.

<u>Ventilation</u> Nominal trickle ventilation is to be provided to reduce the risk of condensation.

Insulation
Substations housing indoor switchgear require insulation. U values for wall and roof shall meet those detailed in the table below:

REGION	ROOF U (W/m²k)	WALLS U (W/m²k)
SCOTLAND	0.2	0.27
ENGLAND & WALES	0.25	0.35

Meter Cupboards

