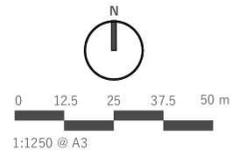
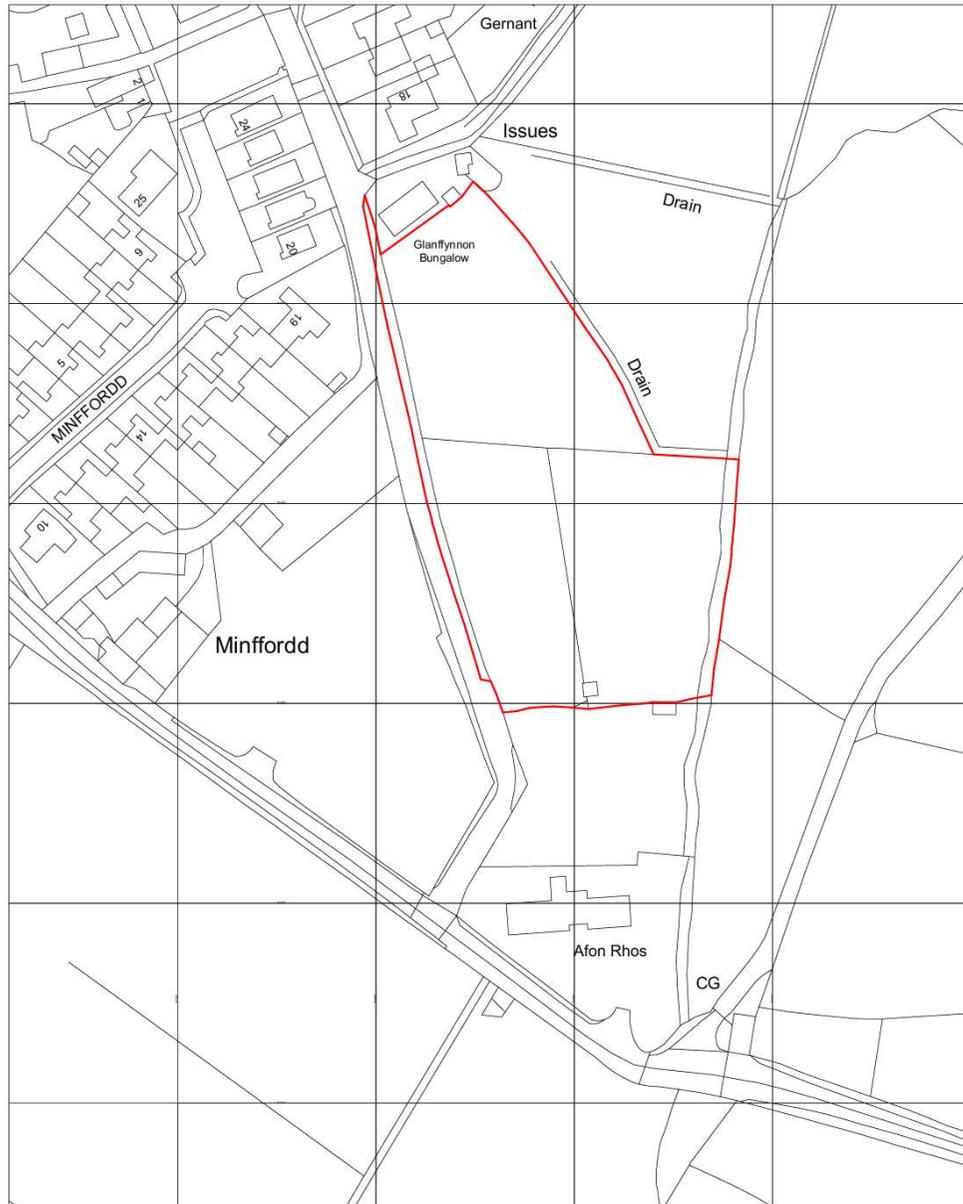


PRINTED:	09/09/2025 09:37:48
REV. DESCRIPTION:	DATE BY CHK
P1 ISSUED FOR WG TECHNICAL APPROVAL	07/02/2025 ME DP
P2 BOUNDARY UPDATED	13/02/2025 ME DP
P3 ISSUED FOR PAC	29/05/2025 ME DP
P4 BOUNDARY UPDATES	09/09/2025 ME DP



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PROJECT:  
**FFORDD GLANFFYNNON,  
LLANRUG**

CLIENT:  
**ATTICUS LAND AND  
DEVELOPMENT**

DRAWING TITLE:  
**CYNLLUN LLEOLIAD -  
LOCATION PLAN**

PURPOSE OF ISSUE: PLANNING STATUS: S3

DRAWING No: FGL-SAL-A1-ZZ-DR-A-0001 PROJECT No: P1212

SCALE: 1:1250@A3 REVISION: P4

# CYNLLUN LLEOLIAD - LOCATION PLAN

SCALE: 1 : 1250



DATE:	20/06/2024
BY:	SA
FOR:	SA
PROJECT NO.:	2024-06-01
PROJECT NAME:	FFORD, GLANFFYNNON, LANRUG
PROJECT LOCATION:	ATTICUS LAND AND DEVELOPMENT
PROJECT SCALE:	1:2000



FFORD  
GLANFFYNNON,  
LANRUG  
ATTICUS LAND AND  
DEVELOPMENT

PROJECT NO. 2024-06-01  
PROJECT NAME  
PROJECT LOCATION  
PROJECT SCALE

PROJECT NO. 2024-06-01  
PROJECT NAME  
PROJECT LOCATION  
PROJECT SCALE



Wetland Seed Mix 3		
Emersgate EMG8 - Meadow Grass Mixture for wet soils		Wildflowers
<i>Agrostis capillaris</i>	12.5	Common Bent
		Meadow
<i>Allopecurus pratensis</i>	3.75	Foxtail
		Sweet vernal grass
<i>Anthoxanthum odoratum</i>	3.75	Quaking Grass (w)
		Crested Dogtail
<i>Briza media</i>	3.75	tufted Hair-grass (w)
		Red Fescue Meadow
<i>Cynosurus cristatus</i>	32.5	Fescue
<i>Deschampsia cespitosa</i>	2.5	
<i>Festuca rubra</i>	35	
<i>Schedonorus pratensis</i>	6.25	
	100	

Species Rich Seed Mix 2		
Emersgate EM2 - STANDARD GENERAL PURPOSE MEADOW MIXTURE		Wildflowers

Latin name	Common name	%
<i>Achillea millefolium</i>	Yarrow	0.5
<i>Centaurea nigra</i>	Common Ragwort	1.6
<i>Daucus carota</i>	Wild Carrot	3
<i>Galium verum</i>	Field Bedstraw	3
<i>Konigia arvensis</i>	Lady's Bedstraw	0.3
<i>Leontodon hispidus</i>	Rough Hawkbit	0.3
	Oxeye Daisy	
<i>Leucanthemum vulgare</i>	Shag Dogwood	2.5
	Black-eyed Susan	
<i>Malva moschata</i>	Mallow	3
<i>Plantago lanceolata</i>	Ribwort	0.8
	Plantain	
<i>Poterium sanguisorba - (Sanguisorba minor)</i>	Salad Burnet	1
<i>Primula veris</i>	Cowslip	0.6
<i>Scandelia vulgata</i>	Selfheal	0.3
<i>Ranunculus acris</i>	Meadow Buttercup	0.8
	Yellow Rattle	
<i>Rhinanthus minor</i>	Rattle	1.2
<i>Rumex acetosa</i>	Common Sorrel	1.1
		20

Latin name	Common name	%
<i>Agrostis capillaris</i>	Common Bent	8
<i>Cynosurus cristatus</i>	Crested Dogtail	28
<i>Festuca rubra</i>	Slender-croeping Red Fescue	24
<i>Phleum bertolonii</i>	Smaller Cat's-tail	4
<i>Poa pratensis</i>	Smooth-stalked Meadow Grass	16

MIX 1 Emersgate - EG22 Basic Strong Lawn Grass Mix (Amenity Mix)				
Grasses	%	Latin name	Common name	
5		<i>Agrostis capillaris</i>	Common Bent	
25		<i>Lolium perenne</i>	Perennial Rye Grass	
50		<i>Festuca rubra</i>	Red Fescue	
20		<i>Poa pratensis</i>	Smooth-stalked Meadow-grass	
100				

All seeding to be carried out in April/May or late August/September using prepared topsoil, cultivated to a fine silt with an application of peat seedling fertilizer applied before sowing and in accordance with the manufacturers recommendations. Any failed areas to be made good. If turf is used instead of seed it will comprise an Amenity Mix as shown to be approved.



Code	Species	Height	Pot Size	Form	Spacing	Notes
Cp	<i>Crataegus prunifolia</i>	10-12cm	min 75ltr	Cr/Rb	n/a	Staked with tie and spacer
Mjd	<i>Malus John Downie</i>	8-10cm	min 75ltr	Cr/Rb	n/a	Staked with tie and spacer
Op	<i>Quercus petraea</i>	10-12cm	min 75ltr	Cr/Rb	n/a	Staked with tie and spacer
Sr	<i>Sorbus aria lutescens</i>	12-14cm	min 75ltr	Cr/Rb	n/a	Staked with tie and spacer
Sauc	<i>Sorbus aucuparia</i> Stewartii	12-14cm	min 75ltr	Cr/Rb	n/a	Staked with tie and spacer

Planted into prepared pits min 600x600x900mm with added peat free rooting medium, slow release fertiliser and mycorrhizal additive at manufacturers recommended rates. Tree guards to be fitted immediately after planting. Staked to windward side with tie and spacer, and where planted in grass areas a 1m dia weedfree bark mulch circle to be maintained.

Native Hedge Planting - Mix NH1	Height	Form	Size	%mix	Spacing	Notes
<i>Crataegus monogyna</i>	450-600mm	Br	2+0	20	3/1m	Min 3 breaks
<i>Prunus spinosa</i>	300-450mm	Cr	2/1r min	70	3/1m	Min 3 breaks
<i>Sambucus nigra</i>	450-600mm	Br	2+0	10	3/1m	Min 3 breaks

Planting to be used as New Native Hedge planting where indicated and as infill to gap up the existing hedges where required at a spacing of min 300mm apart grouping of 7 plants of the same species either match planted or planted into prepared pits. 1300x300x300mm backfilled with topsoil, Micorrhizal granular additive, and 100mm organic matter + slow release fertiliser at manufacturers recommended rate. Where used as infill planting to gap up hedge plant in double or single staggered row as existing root matrix allows. All planting to be fitted with tree shelters, to be removed once established and protected from stock grazing where appropriate. Hedges to be kept weed free by mechanical means.

Formal Native Hedge planting - Mix NH2	Height	Form	Size	%mix	Spacing	Notes
<i>Fagus sylvatica</i>	600-900mm	Cr	3/1r min	100	2/1m	Min 5 breaks

Planting to be at 500mm centres. In a single row into prepared trench. Trench to be 300x300x450mm backfilled with site topsoil, Micorrhizal granular additive, and 100mm organic matter + slow release fertiliser at manufacturers recommended rate. Hedge to be clipped to form eventual 1.6m maximum final Height, and to maintain access to adjacent areas such as paths etc. Hedges to be kept weed free by mechanical means.

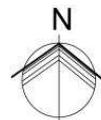
Species	Size	Spec	Form	Spacing	Notes
<i>Lonicera periclymenum</i>	450-600mm	2ltr	cr	As indicated on drawing	Min 4 breaks, cane to remain until established

Planted into prepared pit 300x300x300mm with added Peat free rooting medium, slow release fertiliser and micorrhizal additive at manufacturers recommended rates. The wires to be added to assist climbing of fences/adjacent structures.

Code	Species	Size	Spec	Form	Notes	BED
Ah	<i>Aster heterely</i>	300-450mm	P9/1Ltr	Cr		8
Am	<i>Alchemilla mollis</i>	300-450mm	P9/1Ltr	Cr		6
Gr	<i>Geranium Rozanne 'Gerwat'</i>	300-450mm	P9/1Ltr	Cr		8
Gjb	<i>Geranium Jacksons Blue</i>	300-450mm	P9/1Ltr	Cr		8
Vm	<i>Vincia minor</i>	300-450mm	P9/1Ltr	Cr	Cut back to 300mm before planting	6

Abbr	Species	Height	Pot Size	Form	Notes	no/m <sup>2</sup>
Fcm	<i>Fuchsia magellanica</i>	450-600mm	3ltr	ctr	Mfn. 3 breaks in lower third	3 or 2.5/1m metre
Lav	<i>Lavandula angustifolia Hidcote</i>	450-600mm	3ltr	Cr	Mfn. 3 breaks in lower third	6
Pyr	<i>Pyracantha Saphyr Red</i>	600-900mm	3ltr	ctr	Mfn 3 breaks in lower third	2.5 per 1m in
Rb	<i>Rosa bonica</i>	450-600mm	2ltr	ctr/br	Mfn 3 breaks in lower third	4
Voc	<i>Viburnum opulus Compactum</i>	450-600mm	2ltr	Cr	Mfn 3 breaks in lower third	4

Shrubs to be planted into prepared topsoiled ground (including 100mm well incorporated peat free Compost, slow release fertiliser and Micorrhizal additive) at manufacturers recommended rates, and be evenly spaced within extents indicated. All Ornamental planting areas to receive min 50mm coarse Grade Bark Mulch immediately after planting and areas to be kept free by mechanical means



**Key**

- Proposed dwellings - refer to Architects drawings for details
- Proposed parking and access roads - refer to Architects drawings for details
- Existing retained trees - refer to Arboricultural reporting for details
- Existing mixed Native hedgerows (retained)
- Existing trees and vegetation to be removed (refer to Arboricultural report provided separately)

**Proposed Planting and seeding**

- Proposed Specimen Native tree (species as indicated within schedules)
- Proposed Amenity/Pollinator/ Low shrubs and groundcover (refer to schedule for species)
- Proposed Rain Garden (species as indicated)
- Short mown Amenity grass (species as indicated)
- Species Rich Long sward seeded areas Mix 2 (species as indicated)
- Species Rich Wetland long sward seeded areas Mix 3 (species as indicated)
- Retained/managed wetland margin (refer to Ecological report provided separately)
- Proposed Native tree and Shrub Mix planting NM1 (species as indicated)
- Specimen Shrub/Climber (species as indicated)

**Proposed Native Hedge Planting** (species as indicated)

**Proposed Biodiversity Mitigation**

- Proposed Bat Box
- Proposed Bird Box
- Proposed Hedgehog House
- Proposed Hedgehog Hole (Highway route)
- Proposed Swift Brick/Box
- Proposed Reptile refugia/Hibernacula

**NOTES:**

- Proposals based upon layout provided with SAER Architects Proposed Site Plan. Drawing Ref: FGL/SAL-A1-ZI-DR-A-003 Rev 09
- Drawing issued for Planning purposes only - not for tendering.
- Ecological Arboricultural and Drainage reporting provided separately.
- All fencing to have complete Hedgehog Holes and signage as indicated - Bat Bird and Hedgehog House types as detailed by Project Ecologists.
- For tree retention and felling details refer to Arboricultural reporting provided separately.
- Plant schedules as indicated.
- For Hard Landscape proposals refer to Architects Proposals.
- For Drainage proposals refer to Civilian Drawing Proposed BIDS Approval Body (S&B) Layout ref: 15824\_CCE-XX-XX-UK-C-0008 Rev 007 dated 20/05/23.
- This drawing remains © copyright of Trianbar Associates.



0m 4m 8m 12m 16m 20m

Scale 1:250 @ A1

v4	PW	JB	JB	11/06/25
v3	PW	JB	JB	02/06/25
v2	PW	JB	JB	01/06/25
DRAFT v1	PW	JB	JB	30/05/25

**Tirlun Barr**  
Chartered Landscape Architecture

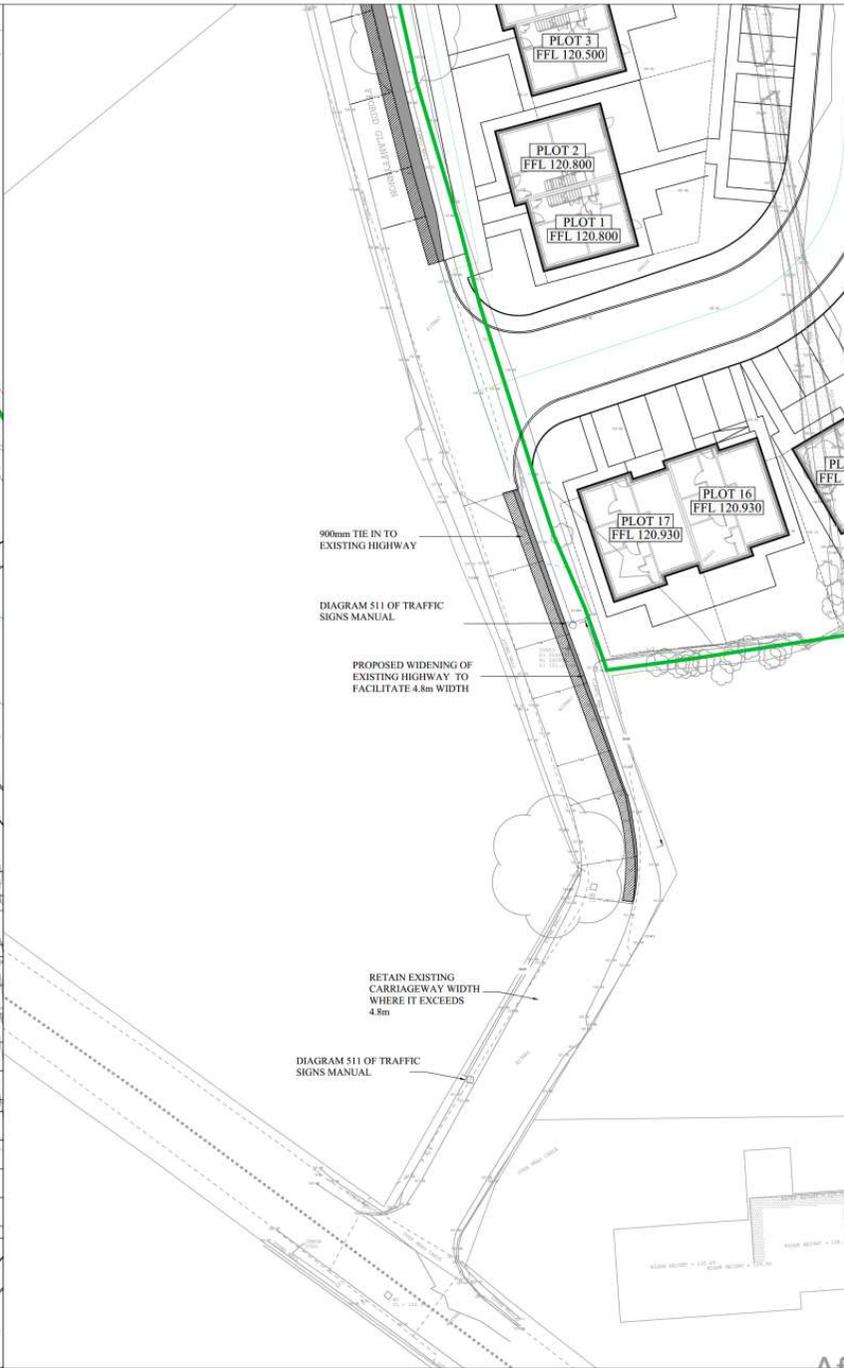
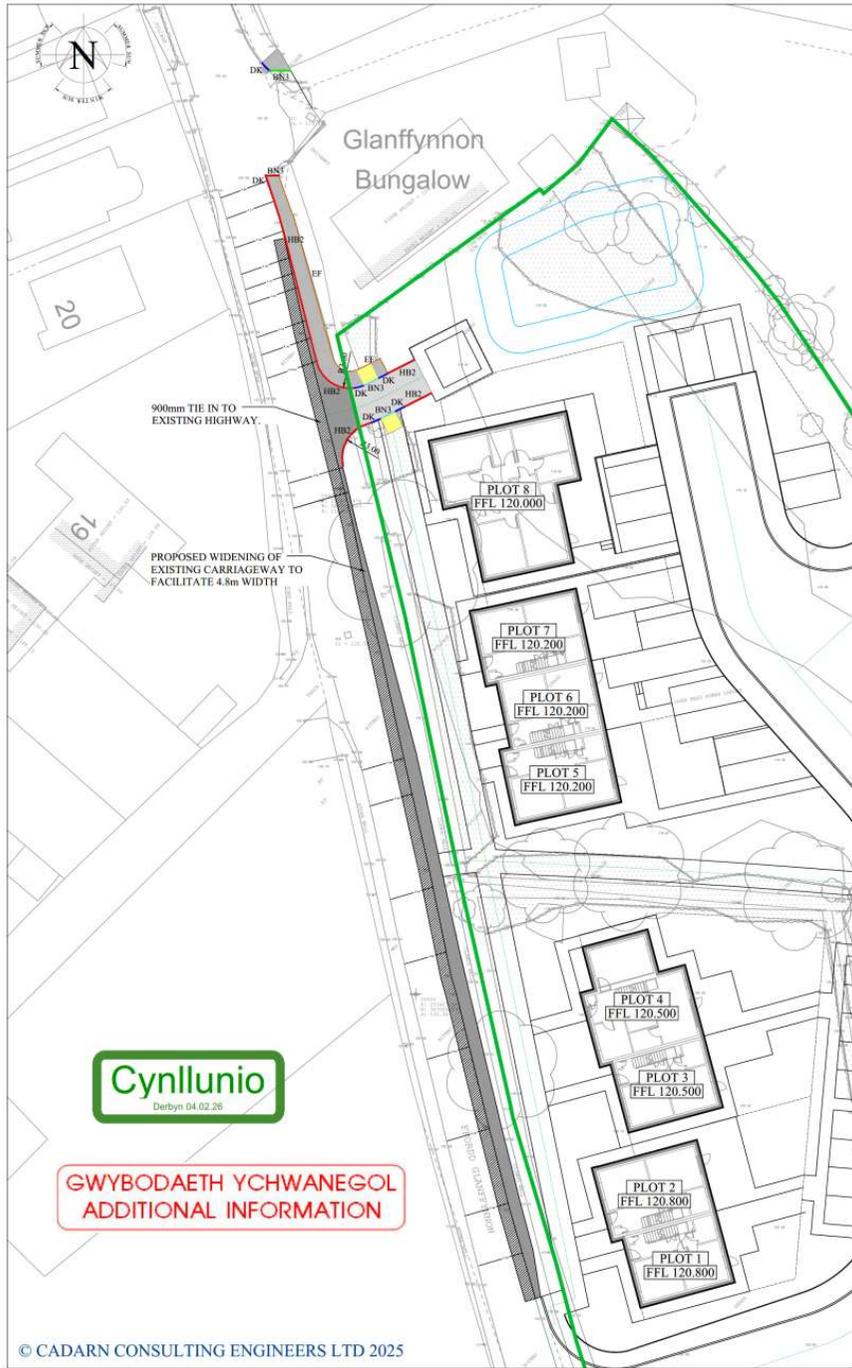
1 Fenby, Llanberis, Gwynedd, LL57 8JY  
Tel Office: 01492 650333  
www.tirlunbar.com

Client: **Adra**

Project Title: **Land at Glanffynnon, Llanrug**

Drawing Title: **Soft Landscape and Ecological Mitigation Proposals**

Drawing Number	11/025/PP/01.01
Scale	1:250
Sheet	v4



- NOTES**
- DO NOT SCALE FROM THIS DRAWING.
  - ALL LEVELS IN METRES UNLESS NOTED OTHERWISE ON DRAWING.
  - ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE PRIOR TO UNDERTAKING ANY WORKS. ORDERING MATERIALS OR FABRICATING ANY COMPONENTS.
  - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS AND RELEVANT SPECIFICATION CLAUSES.
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- KEY**

**TENDER ISSUE  
NOT FOR  
CONSTRUCTION**

NO.	REV.	DATE	DESCRIPTION	BY	CHECKED
01	001	16.10.2024	ISSUED FOR TENDER PURPOSE		
02	001	16.10.2024	ISSUED TO FACILITATE ABBEY 24 FUNCTION		
03	001	17.10.2024	ISSUED TO TENDER BIDD		
04	001	16.10.2024	ISSUED FOR TENDER PURPOSE		
05	001	16.10.2024	ISSUED FOR TENDER PURPOSE		

**PROJECT TITLE**

FFORDD GLANFFYNNON, LLANRUG

**DRAWING TITLE**

PROPOSED OFFSITE STREET WORKS

**DRAWING NO.**

15824L-CCE-XX-XX-DR-C-0013

ORIGINATOR	DATE	SCALE	NO. SHEETS	REVISION
I.G	16.10.2024	1:200	D2	P03

**CADARN**  
CONSULTING ENGINEERS

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Aberystwyth Business Centre,  
Bryn Cefn,  
Llanrugga,  
LL27 7XA. E-mail: Admin@cadarnconsulting.co.uk

Tel: 01407 759112



**GWYBODAETH YCHWANEGOL  
ADDITIONAL INFORMATION**



**AWYRLUN 3D AERIAL**

SCALE:



**AWYRLUN 3D AERIAL**

SCALE:

REV.	DESCRIPTION	DATE	BY	CHK
P1	ISSUED FOR COMMENTS	15/09/2023	ME	DF
P2	ISSUED FOR W9 TECHNIQUE APPROVAL	01/10/2023	ME	DF
P3	ISSUED FOR PAC	29/09/2023	ME	DF
P4	UPDATES FOLLOWING CLIENT COMMENTS	03/06/2023	ME	DF
P5	UPDATES FOLLOWING CLIENT/CONTRACTOR COMMENTS	23/06/2023	ME	DF



**MYNEDFA SAFLE - SITE ENTRANCE**

SCALE:



**FFORDD GLANFFYNNON**

SCALE:



**GOLYGFA'R STRYD - STREET SCENE**

SCALE:



**AWYRLUN 3D AERIAL**

SCALE:



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PROJECT:  
**FFORDD GLANFFYNNON,  
LLANRUG**

CLIENT:  
**ATTICUS LAND AND  
DEVELOPMENT**

DRAWING TITLE:  
**3D ARFAETHEDIG -  
PROPOSED 3D**

DRAWING STATUS	STATUS
PLANNING	S3
DRAWING No: FGL-SAL-A1-ZZ-DR-A-0006	PROJECT No: P1212
SCALE @A2	REVISION P5

## ELEVATIONS



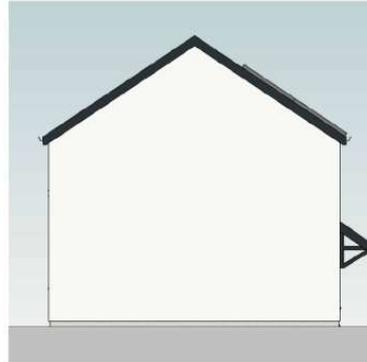
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FRONT ELEVATION**

SCALE: 1:100



**EDRYCHIAD CEFN  
REAR ELEVATION**

SCALE: 1:100



**EDRYCHIAD OCHR  
SIDE ELEVATION**

SCALE: 1:100



REV	DESCRIPTION	DATE	BY	CHK
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P4	ISSUED FOR IAC	29/06/2025	MM	DP
P5	UPDATED FOLLOWING CLIENT COMMENTS	03/06/2025	MM	DP
P6	UPDATED FOLLOWING CLIENT/CONTRACTOR COMMENTS	22/06/2025	MM	DP

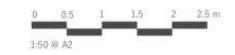
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- RENDER
- STONE CLADDING
- SLATE/TILE
- WINDOW/DOOR

### 4P2B STORAGE (2.5m<sup>2</sup>)

NAME	AREA	COMMENTS
00 - GROUND FLOOR		
ST	0.5 m <sup>2</sup>	
ST	1.3 m <sup>2</sup>	
ST	0.2 m <sup>2</sup>	
ABOVE STAIR LIFT		
AC	0.7 m <sup>2</sup>	
	2.7 m <sup>2</sup>	

GFA	
FLOOR	AREA
GROUND FLOOR	415 m <sup>2</sup>
FIRST FLOOR	415 m <sup>2</sup>
	829 m <sup>2</sup>



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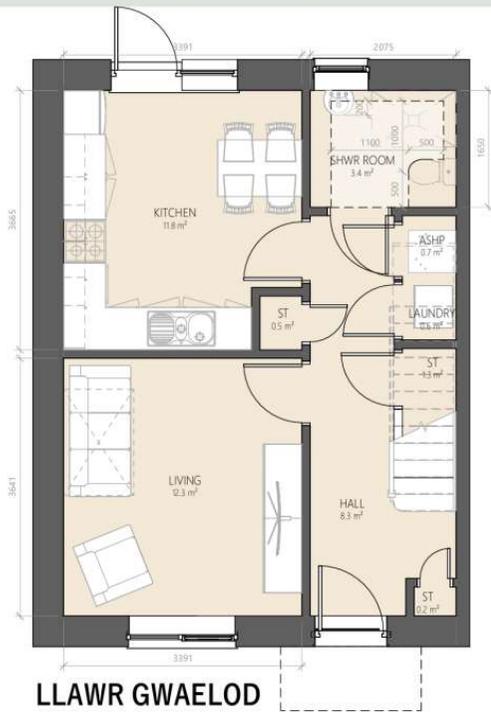
PROJECT:  
**FFRDD GLANFFYNNON,  
LLANUG**

CLIENT:  
**ADRA**

DRAWING TITLE:  
**CYNLLUNIAU TY 4P2B  
HOUSE TYPE PLANS AND  
ELEVATIONS**

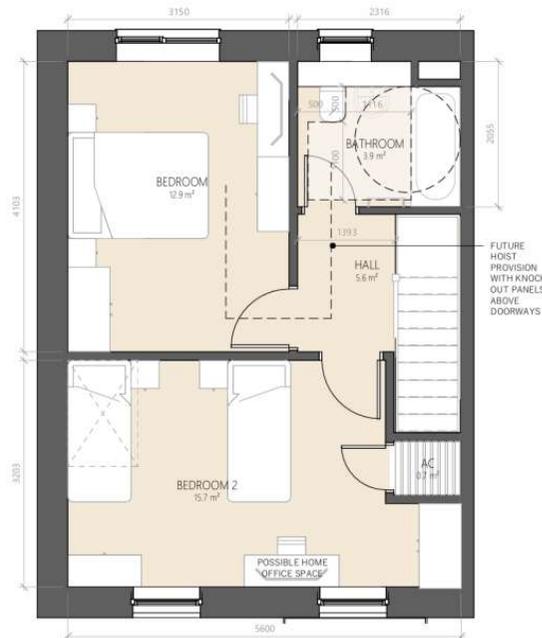
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DRAWING No: FGL-SAL-02-ZZ-DR-A-0041	PROJECT No: P1212
SCALE: As indicated@A2	REVISION: P6

## PLANS



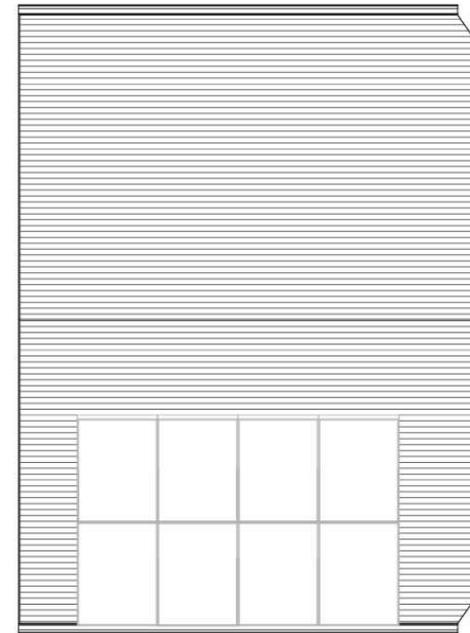
**LLAWR GWAELOD  
GROUND FLOOR**

SCALE: 1:50



**LLAWR CYNTAF  
FIRST FLOOR**

SCALE: 1:50



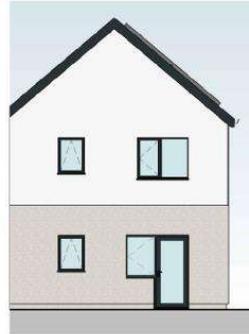
**CYNLLUN Tŏ  
ROOF PLAN**

SCALE: 1:50

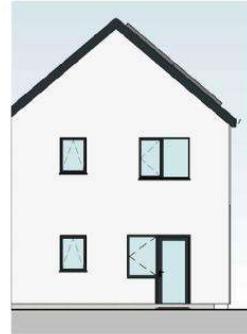
ELEVATIONS



EDRYCHIAD BLAEN  
FRONT ELEVATION  
SCALE: 1:100



EDRYCHIAD CEFN  
REAR ELEVATION PLOTS 2,5&7  
SCALE: 1:100



EDRYCHIAD CEFN  
REAR ELEVATION PLOTS 9,11&14  
SCALE: 1:100



EDRYCHIAD OCHR  
SIDE ELEVATION  
SCALE: 1:100

REV.	DESCRIPTION	DATE	BY	CHK
P1	INITIAL ISSUE	20/06/2024	MM	DF
P2	ISSUED FOR COMMENTS	15/07/2024	ME	DF
P3	ISSUED FOR MTD TECHNICAL APPROVAL	07/08/2024	ME	DF
P4	ISSUED FOR IFC	20/08/2024	ME	DF
P5	UPDATES FOLLOWING CLIENT COMMENTS	03/09/2024	ME	DF
P6	UPDATES FOLLOWING CLIENT/CONTRACTOR COMMENTS	22/09/2024	ME	DF



MATERIAL SCHEDULE

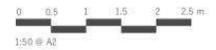
- RENDER
- STONE CLADDING
- SLATE/TILE
- WINDOW/DOOR

SP3B STORAGE (2.5m<sup>2</sup>)

NAME	AREA	COMMENTS
00 - GROUND FLOOR		
STR	1.3 m <sup>2</sup>	UNDER STAIRS
STR	0.6 m <sup>2</sup>	
01 - FIRST FLOOR		
A/C	0.6 m <sup>2</sup>	MINIMUM 1m <sup>2</sup> SHELVING
	2.5 m <sup>2</sup>	

SP3B GIFA (93m<sup>2</sup>)

FLOOR	AREA
GROUND FLOOR	46.5 m <sup>2</sup>
FIRST FLOOR	46.5 m <sup>2</sup>
	93.0 m <sup>2</sup>



1:50 @ A2



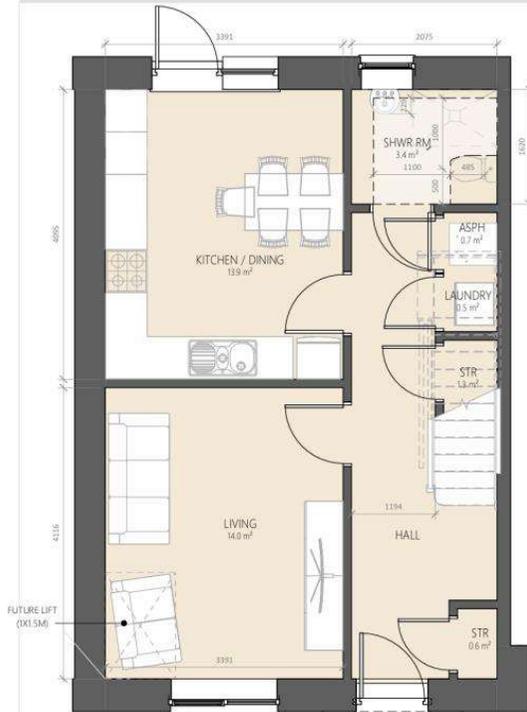
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PROJECT:  
FFORDD GLANFFYNNON,  
LLANRUG  
CLIENT:  
ADRA

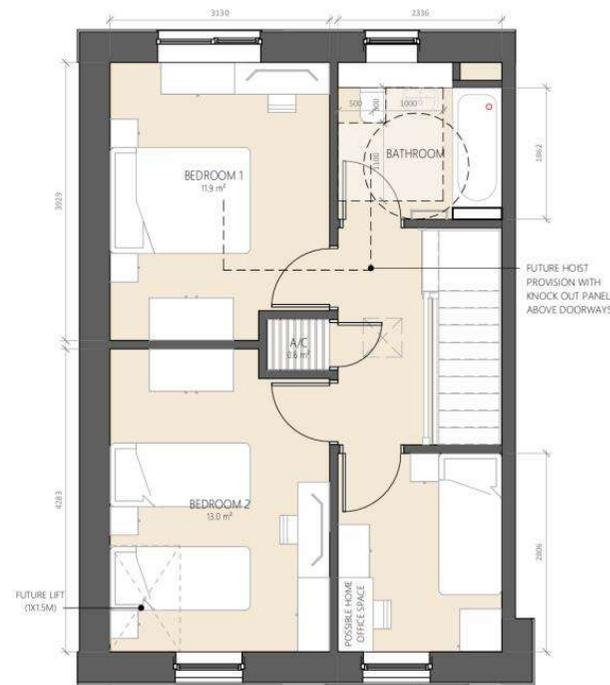
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CYNLLUNIAU TY SP3B  
HOUSE PLANS AND  
ELEVATIONS

DRAWING STATUS	STATUS
PLANNING	S3
DRAWING No: FGL-SAL-03-ZZ-DR-A-0042	PROJECT No: P1212
SCALE: As indicated@A2	REVISION P6

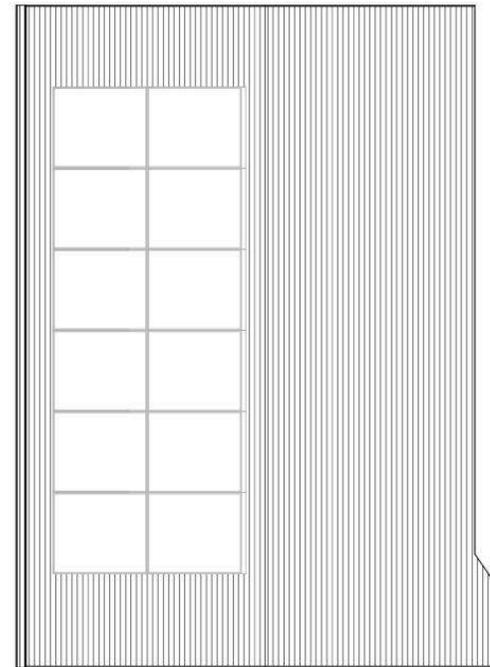
PLANS



LLAWR GWAELOD  
GROUND FLOOR  
SCALE: 1:50



LLAWR CYNTAF  
FIRST FLOOR  
SCALE: 1:50



CYNLLUN TŌ  
ROOF PLAN  
SCALE: 1:50

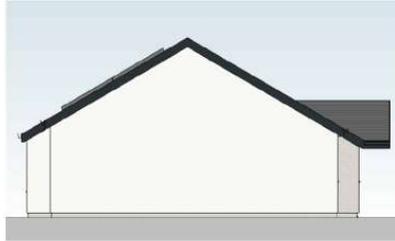
ELEVATIONS



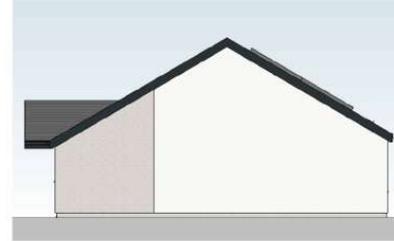
**EDRYCHIAD BLAEN  
FRONT ELEVATION**  
SCALE: 1 : 100



**EDRYCHIAD CEFN  
REAR ELEVATION**  
SCALE: 1 : 100

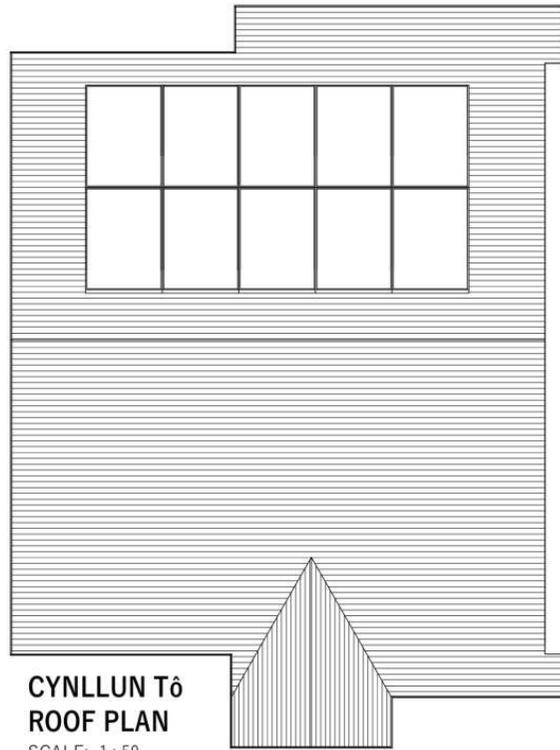
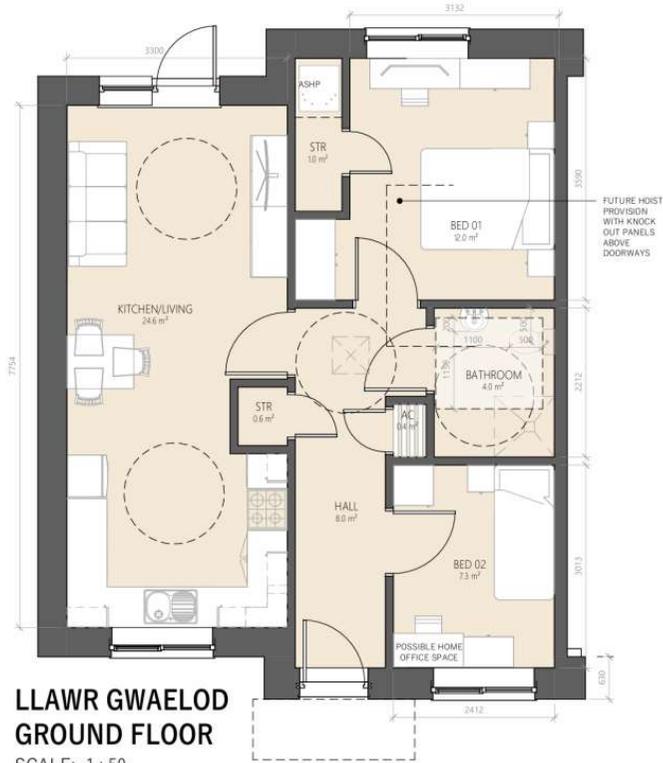


**EDRYCHIAD OCHR  
SIDE ELEVATION**  
SCALE: 1 : 100



**EDRYCHIAD OCHR  
SIDE ELEVATION - PLOT 17**  
SCALE: 1 : 100

PLANS



REV	DESCRIPTION	DATE	BY	CHK
P1	ISSUED FOR COMMENTS	15/07/2023	ME	DF
P2	ISSUED FOR MECHANICAL APPROVAL	07/08/2023	ME	DF
P3	ISSUED FOR PAC	21/08/2023	ME	DF
P4	UPDATES FOLLOWING CLIENT COMMENTS	03/09/2023	ME	DF
P5	UPDATES FOLLOWING CLIENT/CONTRACTOR COMMENTS	23/09/2023	ME	DF



MATERIAL SCHEDULE

- RENDER
- STONE CLADDING
- SLATE/TILE
- WINDOW/DOOR

3P2B STORAGE (2m<sup>2</sup>)

NAME	AREA	COMMENTS
00 - GROUND FLOOR		
STR	1.0 m <sup>2</sup>	
AC	0.4 m <sup>2</sup>	MINIMUM 1m <sup>2</sup> SHELVING
STR	0.6 m <sup>2</sup>	
	2.0 m <sup>2</sup>	

FLOOR

FLOOR	AREA
GROUND FLOOR	61.4 m <sup>2</sup>
	61.4 m <sup>2</sup>



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PROJECT  
**FFORDD GLANFFYNNON,  
LLANRUG**  
CLIENT:  
**ADRA**

DRAWING TITLE  
**CYNLLUNIAU BYNGALO  
3P2B BUNGALOW PLANS  
AND ELEVATIONS**

DRAWING STATUS	STATUS
PLANNING	S3
DRAWING NO: FGL-SAL-03-ZZ-DR-A-0040	PROJECT NO: P1212
SCALE: As indicated@A2	REVISION: P5



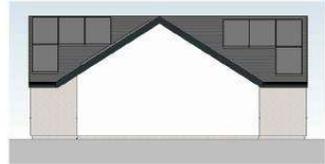
PROJECT:	78786-001-24-010			
REV:	01 - 2024			
REV. DESCRIPTION:	DATE			
P1:	ISSUED FOR COMMENTS	12/01/2024	ME	DP
P2:	ISSUED FOR ME TECHNICAL	07/01/2024	ME	DP
	REVISIONS			
P3:	ISSUED FOR PAC	29/06/2024	ME	DP
P4:	APPROVED FOR CONSTRUCTION	09/09/2024	ME	DP
	COMMENTS			
P5:	ISSUED FOLLOWING CLIENT/CONTRACTOR COMMENTS	22/08/2024	ME	DP



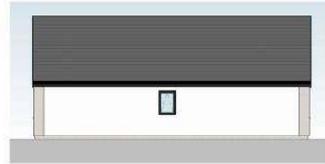
ELEVATIONS



**EDRYCHIAD BLAEN  
FRONT ELEVATION**  
SCALE: 1 : 100



**EDRYCHIAD OCHR  
SIDE ELEVATION**  
SCALE: 1 : 100

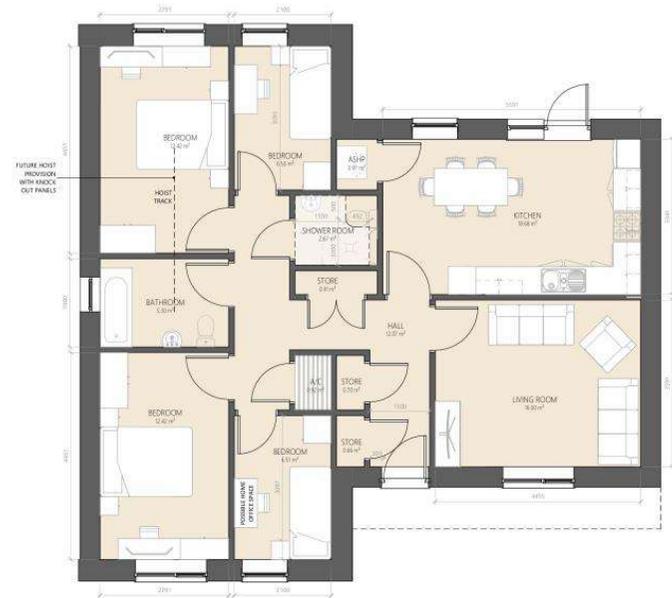


**EDRYCHIAD OCHR  
SIDE ELEVATION**  
SCALE: 1 : 100

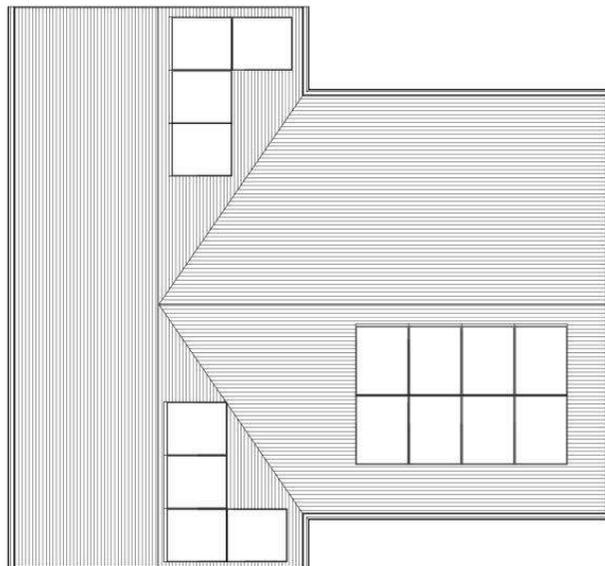


**EDRYCHIAD CEFN  
REAR ELEVATION**  
SCALE: 1 : 100

PLANS



**LLAWR GWAELOD  
GROUND FLOOR**  
1 : 50



**CYNLLUN Tŵ  
ROOF PLAN**  
SCALE: 1 : 50

**MATERIAL SCHEDULE**

- RENDER
- STONE CLADDING
- SLATE/TILE
- WINDOW/DOOR

**STORAGE VOLUME - 3m3 REQUIRED**

NAME	AREA
KVC	0.92 m³
STORE	0.91 m³
STORE	2.02 m³
STORE	0.88 m³
	3.73 m³

**SPACE DATA (99m²)**

FLOOR	AREA
GROUND FLOOR	102.65 m²
	102.65 m²



PROJECT:  
**CRAIG Y DON,  
BENLLECH**  
CLIENT:  
**CLWYDALYN / DU  
CONSTRUCTION**

DRAWING TITLE:  
**CYNLLUNIAU BYNGALO  
6P4B BUNGALOW PLAN  
& ELEVATIONS**

DRAWING STATUS: PLANNING	STATUS: S3
DRAWING No: CYD-SAL-02-ZZ-DR-A-0043	PROJECT No: P1254
SCALE: As indicated/BA1	REVISION: P5

**NOTES**

**General**  
This drawing is to be read in conjunction with document SUB-03-017 General Specification for the Civil Engineering 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.

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

**Foundations (Concrete 40N/mm<sup>2</sup> 28-Day Cube Strength)**  
Foundations are to be set on undisturbed inorganic strata that provide the required minimum design safe ground bearing capacity. Minimum bearing capacity to be 75kN/m<sup>2</sup>.

**Floor (Concrete 40N/mm<sup>2</sup> 28-Day Cube Strength)**  
A flat, level and smooth floor surface is essential for installation of plant. Tolerances to finished level expressed as a maximum permissible deviation beneath a straight edge with feet placed anywhere on the floor shall not exceed 1mm in 2m or 3mm in 3m. Floors to be cured, prepared & painted with 2 No. Coats of non-slip floor paint on completion.

**Brickwork**  
**General**  
All brickwork below D.P.C. to be H.D. category 1 min. 75N/mm<sup>2</sup> mean compressive strength and max 7% M.A. and durability designation F2 S2 (Ex Engineering Brickwork Class B) in English bond except for exposed faces.  
External facing brickwork to be H.D. category 1 min. 30N/mm<sup>2</sup> mean compressive strength and max 12% M.A. and durability designation F1 S1 or better.  
Internal facing brickwork to fair faced smooth textured solid concrete bricks, sized to match external facing bricks and with a mean compressive strength of not less than 20N/mm<sup>2</sup>.  
Class iii mortar.

**Walls**  
Walls shall be 215mm English garden wall bond or Collar jointed stretcher bond. Leaves of collar jointed double stretcher walls to be tied together by means of type 1 or type 2 stainless steel ties laid in every fourth course at 375mm centres and set back 38mm from outer face, ties 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 available.

**Cable Trench & Slots**  
On completion of cabling, cable trench and slots to be filled with dry sand topped with a minimum 150mm depth of rounded gravel chippings (top to be level with F.F.L).

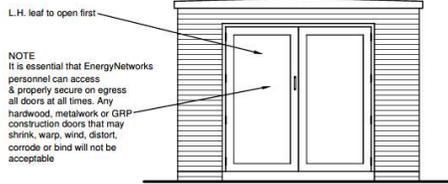
**Roof**  
**Standard Concrete Roofs (Concrete 40N/mm<sup>2</sup> 28-Day Cube Strength)**  
Wherever practicable, roofs should be cast in situ reinforced concrete construction with a soffitt finish. Slip joints shall be incorporated at wall bearings, polysulphide sealed externally. Internal / External faces of concrete to be fair faced. All external faces to be cured, prepared, primed and finished with a two coat high performance (Aliphatic) polyurethane waterproofing system (flat roof grade) with glass fibre mat reinforcement to initial coat, e.g.

1.No. Coat of LPL bonding primer then  
2.No. Coats of LPL Decothane.  
Obtainable from Liquid Plastics Tel. 01772 259 781 or Equal System

All finishes are to be in accordance with the manufacturers recommendations.  
Where permanent structural metal soffitt shutters are used as part of a composite roof system these shall be corrosion resistant and the Constructor's proposals for screening or tagging for earthing purposes shall be expressly agreed with SPEN prior to construction.

**Ventilation**  
Ventilation shown is typical for a single 500kVA transformer substation. The typical ventilation indicated may not be adequate in certain supply conditions which might require additional or alternative ventilation arrangements.

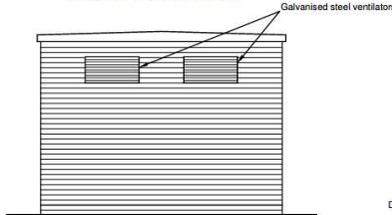
**Related Typical Deemed to Satisfy Drawings**  
Hardwood Doors SP4000543  
Meter Cupboards SP4078901  
Vent for Brickbuilt substation SP4000542



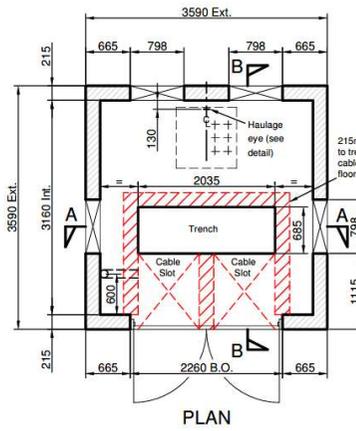
**FRONT ELEVATION**



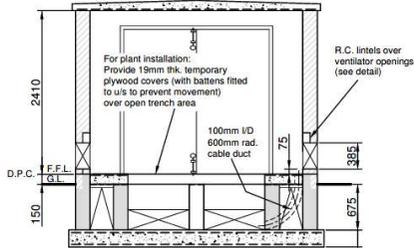
**SIDE ELEVATION**



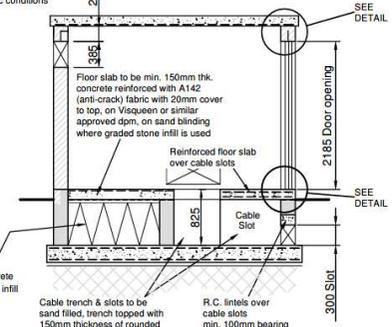
**REAR ELEVATION**



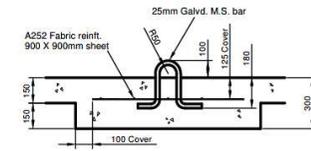
**PLAN**



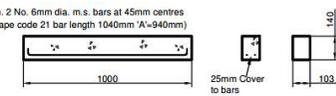
**SECTION A-A**



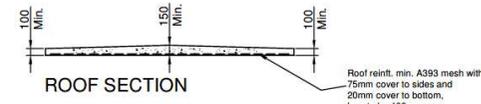
**SECTION B-B**



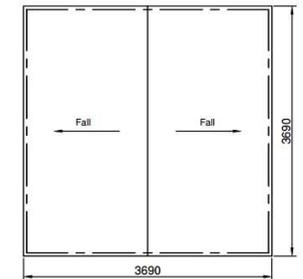
**HAULGE EYE DETAIL Scale 1:20**



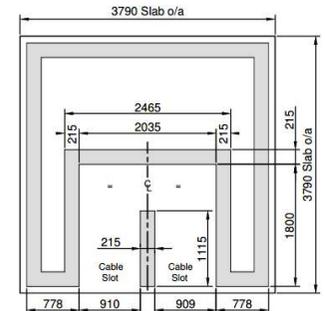
**LINTOL TO VENT OPENING SCALE 1:20**



**ROOF SECTION**



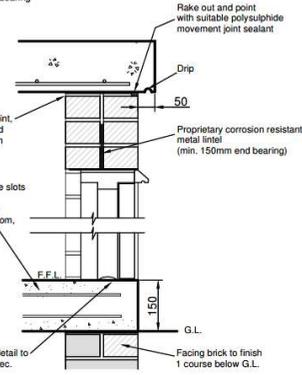
**ROOF PLAN**



**PLAN OF BRICKWORK BELOW FLOOR SLAB**



**FOUNDATION SECTION**



**DETAIL AT DOORWAY Scale 1:10**



Rev. 6.0	Date 27/11/17	GENERAL UPDATES TO REFLECT CHANGES TO CIVIL POLICY DOCUMENTS
Drawn C.B.	Checked GR	Approved GR
SP PowerSystems Ltd System Design, Drawing Office 3 Prenton Way, Prenton, CH43 3ET Telephone 0151 6092491		
TYPICAL TRADITIONAL BUILDING DETAILS FOR 11kV BRICKBUILT SUBSTATION (CLOSE COUPLED GEAR)		
Location		
TYPICAL		
Drawn	Date	Checked
M.T.	JAN.07	C.W.
Date	Date	Approved
JAN.07	JAN.07	A.J.R.
Status	Dirp. No.	Rev.
ISSUED	SP3020357	6.0
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		Size A2

