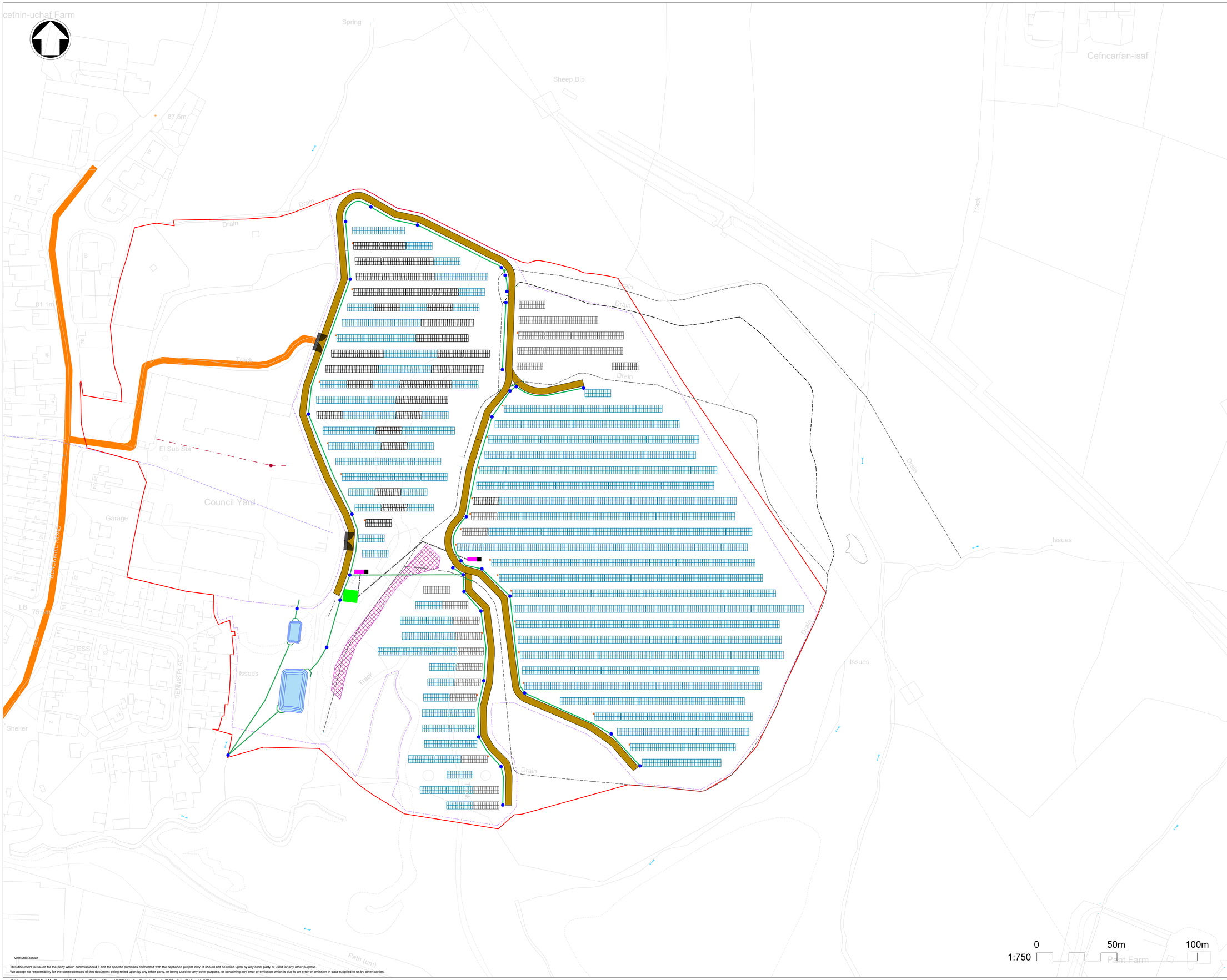

Notes

1. Do not scale from this drawing.
2. All dimensions are in metres/millimetres unless otherwise stated.
3. This drawing is to be read in conjunction with all relevant documents and drawings.
4. No unauthorised disclosure, storage or copying.
5. All spatial coordinates relate to the Ordnance Survey, British National Grid (OSGB36).
6. All levels are in meters and relate to AOD (Ordnance Survey, Newlyn).
7. Private wire route alignment subject to update by designer; the expected wire route revision to follow the fence line and not pass through the solar panel array.
8. Pending results of surveys, the site may be subject to minor grading/preparatory groundworks to level steeper slopes in the panel area.
9. A buried cable route connection from the two transformers to control building is proposed to avoid lengthy cabling trenches along the internal roads.

Key to symbols

- Site Boundary
- Fence
- LV buried Private wire route
- Drainage plan design
- New internal road
- Existing road
- Switchgear
- 2P14 frame module
- 2P14 frame module above 15% slopes
- Control Building
- PV string inverter 185 kVA
- Gates: northern for maintenance southern for construction
- Buried cable route from transformers to Control Building
- LV Transformer
- Small valley with steep sided slopes
- Attenuation pond

Design

Latitude and longitude:	51°32'53.43"N, 3°33'36.55"W
Country, location:	United Kingdom
PV module nominal power:	565 Wp
PV module quantity:	9,520
PV Inverter:	185kVA
PV inverter caantity:	26
DC nominal capacity:	5.38 MWp
AC installed capacity:	4.81MWac
AC export capacity:	4.81MWac
Modules' configuration per structure:	2 Portrait
Module dimensions:	2.384 x 1.134 x 0.035 m
Azimuth:	0 (due south)
Tilt Angle:	20°
Pitch Distance:	9.00 m
Ground Cover Ratio (GCR)	49.67%
DC/AC ratio	1.14
Fence area:	8.23 Ha
2P14 module quantity:	340

Heights of the buildings and other infrastructure:

Control Building:	4 m
Solar Switchgear:	3 m
Transformers:	3 m
Fence:	3 m
Security camera poles:	4 m

Reference drawings

- Solar PV Constraints Map: 106856-MMD-BRGR-XX-DR-Y-0011
- Site Terrain and Slope Map: 106856-MMD-BRGR-XX-DR-Y-0012

Rev	Date	Drawn	Description	Ch'k'd	App'd
P05	23/04/2023	RCH	Preliminary PV layout revised	MH	OV
P04	28/02/2023	EL	Preliminary PV layout revised	MH	OV
P03	15/11/2022	EL	Preliminary PV layout revised	MH	OV
P02	27/10/2022	EL	Preliminary PV layout revised	MH	OV
P01	21/09/2022	EL	Preliminary PV layout	MH	OV

Status Stamp

NOT FOR CONSTRUCTION

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Title

Bryncethin Solar PV Project
General PV layout

Sheet 01 of 01

Designed	E. Lici	EL	Eng check	M. Hayward	MH
Drawn	E. Lici	EL	Coordination	M. Hayward	MH
Dwg check	M. Moran	MM	Approved	O. Velasco	OV

MMD Project Number: 108939	Scale at A0: 1:750	Security: STD
Suitability Description: PRE		Suit. Code: S3
Drawing Number: 108939-MMD-BRGR-XX-DR-E-0014		Revision: P05

Mott MacDonald

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