Swallett Energy Park

The proposed project boundary is highlighted in **RED** on the Ordnance Survey map.

The design for the development has not been completed. We are consulting with the council and undertaking this round of public consultation to better understand the key sensitivities and design considerations.

The final design will include appropriate offsets from residential receptors, including heritage assets, the right of way through the site and additional landscaping. Any potential sources of noise will also be located away from sensitive receptors.

The site access route will be via an existing agricultural entry point, upgraded to meet the needs of the new purpose. The route to site will be from the M4, then via the B4122 which joins the B4069, which heads east towards the site access point.

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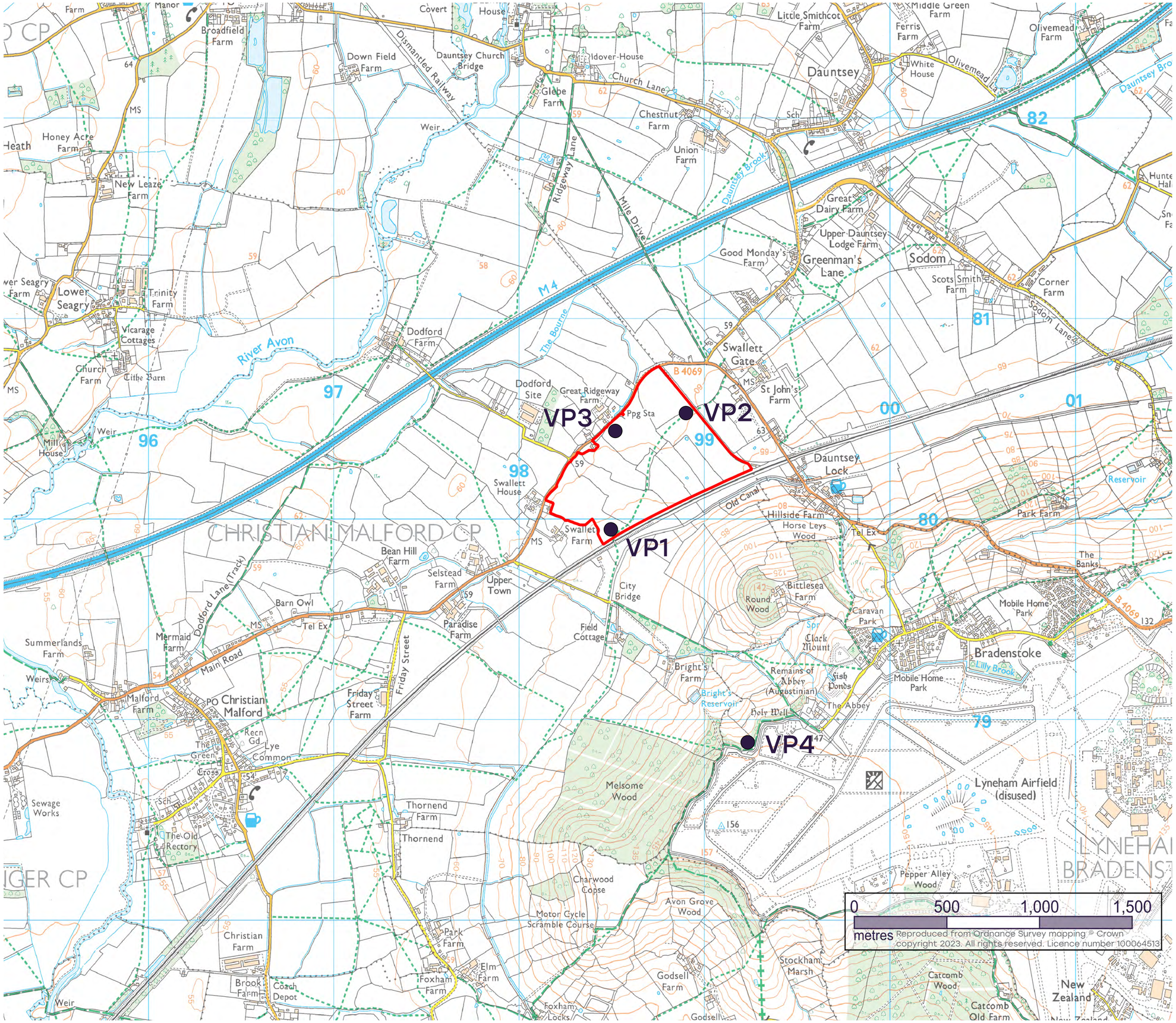

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Swallett Energy Park

Site information

Site location and overview

The project consists of a solar farm with the option to add co-located battery storage, placed on 115 acres (46.5 hectares) of land south of the M4 motorway between the B4069 and the Swindon to Chippenham railway line, to the north-west of the village of Dauntsey Lock.

The project will include the solar farm, battery storage system and associated infrastructure all within the land boundary. There will then be a short section of buried cable between the site and Lyneham substation which will run approximately 750m in the B4069. A total of approximately 100 acres (40.5 ha) of land will be required for the development. We are undertaking consultation and environment assessment to determine the most suitable land for development.

Project information

The solar farm will have an export capacity of up to 30MWp, which is the equivalent to the annual electricity usage of approximately 9,400 homes in Wiltshire.

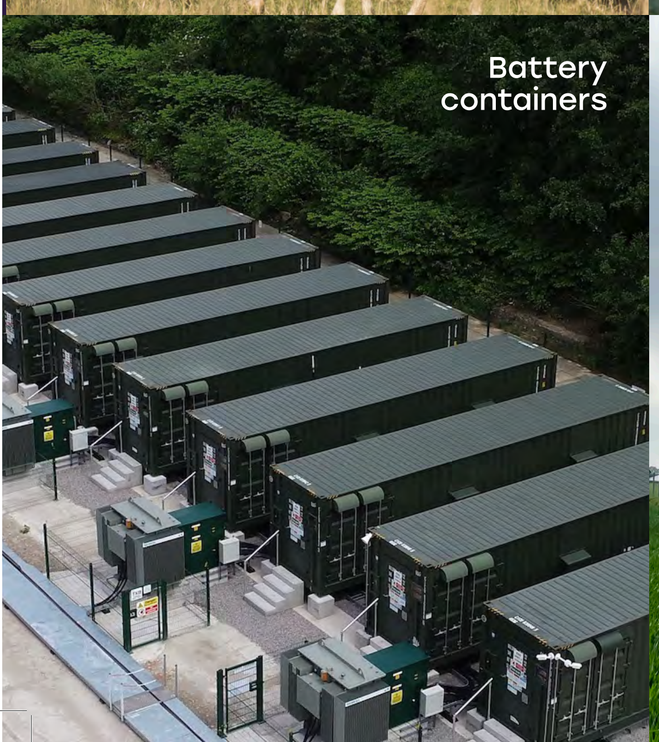
The battery storage facility will have a capacity of up to 23MW and will occupy less than 1 acre. It will provide 2-hour duration of electricity export per discharge, this is the same as powering approximately 5,800 homes in Wiltshire per charge.



Solar panels



Mounting frames



Battery containers



Deer fencing

The solar farm will generate electricity equivalent to the average annual consumption of around 9,400 homes.

Development components

Photovoltaic Panels

Each panel will be approximately 2.2m x 1.1m x 5cm.

Mounting System

The mounting system comprises upright galvanised steel posts which are screwed or pushed into the ground and an aluminium support frame which is bolted together. The complete assembly including the modules will be angled to face south. The lower part of the assembly will be 0.7m off the ground while the top of the assembly will be up to 3m high. The system is designed to be 'reversible' leaving only small holes to be back filled when removed upon the completion of the project.

Inverters

Inverters are required to convert the direct current (DC) generated by the photovoltaic modules to grid compatible alternating current (AC).

Substation connection

Proximity to the Lyneham substation in Dauntsey Lock means that the distance of cabling to the point of connection is short, requiring less groundwork to place the buried cable.

Fencing

We are proposing a 'deer fence' (wooden post and metal mesh) up to 2.4m in height around the solar farm. The point of connection and battery storage compound would have a painted palisade fence at a height of 2.5m.

CCTV

We propose installing CCTV cameras on the site. The cameras will be located inside the site and will point inwards. Typically installed at a height of 3m at the solar farm and 4m at the point of connection and battery storage compound.

Operation

The solar farm will begin to generate electricity following commissioning and being connected to the grid. The photovoltaic panels will continue to generate electricity for a project lifespan of 40 years after which all infrastructure would be decommissioned and removed from the site. The batteries will be available to import and export electricity for the same 40 year period.

The site will be monitored remotely and will not require any permanent staff to be located on site. The proposed development requires low maintenance and as such there will be infrequent visits to service the installation.

To ensure agricultural practices continue the grass in and around the solar array will be grazed by sheep and the soils taken out of intensive agricultural practice and allow to rest and naturally improve. Proposals for substantial biodiversity net gain will also be included through habitat enhancement and creation, primarily by removing the land from intensive agriculture and replacing it with species rich grassland and creating new wildflower areas and woodland.

Construction

Timing

Works will commence upon gaining the necessary planning and grid connection approvals.

Construction access

The site access route will be via an existing agricultural entry point, upgraded to meet the needs of the new purpose. The route to site will be from the M4, then via the B4122 which joins the B4069, which heads east towards the site access point.

Site preparation

This will involve the preparation of the site to receive the delivery of equipment. This may involve the construction of a temporary access track and will involve the preparation of areas for the storage of equipment and the housing of temporary pre- fabricated site offices.

Layout & construction

The locations for the uprights will be identified using GPS to ensure accuracy. Uprights will be screwed or pushed into ground to avoid the use of concrete foundations. The mounting framework will then be assembled by hand. The solar PV panels also fixed to frame, again by hand. Shallow trenches will be excavated between the panels, the inverters and the substation position. Cables will be laid in the trenches and back filled.

Restoration

All areas subject to temporary works including some access tracks and other temporary infrastructure, would be re-instated to a condition in keeping with the quality of the areas before works commenced. All construction waste (largely comprising packaging) will be disposed of in accordance with local regulations.

Local contractors

Local contractors will be used as far as possible in the construction process.

Biodiversity improvements

Wildflowers planted to improve habitat for pollinators, including under the overhead lines

Bird and bat boxes will be installed in areas of mature trees across the site, exact locations informed by our ecological consultant.

Switching intensive arable farmland for species rich grassland around the panels to be grazed by sheep, retaining agricultural purpose alongside renewable energy

Existing hedgerows will be enhanced where necessary, including gapping up and strengthening certain locations using native species. This will ensure greater connectivity through green corridors.

Reptile hibernacula and log piles to be located over the site in field margins.

Areas of new native species woodland will be planted to provide screening of views from certain residential properties and for longer term biodiversity.

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APPENDIX C

ADVERTISMENTS OF CONSULTATION EVENTS

EXAGEN IS SEEKING YOUR INPUT ON THE SWALLETT ENERGY PARK, WEST OF DAUNTSEY LOCK AND NORTHEAST OF CHRISTIAN MALFORD.

The project consists of a solar farm with the option to add co-located battery storage on 115 acres of land south of the M4 motorway, between the B4069 and the Swindon to Chippenham railway line.

Any comments submitted at this time will be helpful for the design team to capture public views on the proposals. Upon Exagen Development's submission of a formal planning application, there will be an opportunity to make representations to the planning authority.

—— Public exhibitions ——

Wednesday, 3rd May, 4-8pm
Bradenstoke Village Hall
Bradenstoke,
Chippenham SN15 4EL

Thursday, 4th May, 4-8pm
Christian Malford Village Hall
Station Rd,
Christian Malford,
Chippenham SN15 4BL

—— Online webinar ——

Monday 15th May, 7-8pm
Web Address: www.bit.ly/SwallettWebinar

Visit the project website: www.exagen.co.uk/swallett-energy-park
Email: swallettenergypark@exagen.co.uk

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APPENDIX D

RESIDENTIAL PHOTOMONTAGES



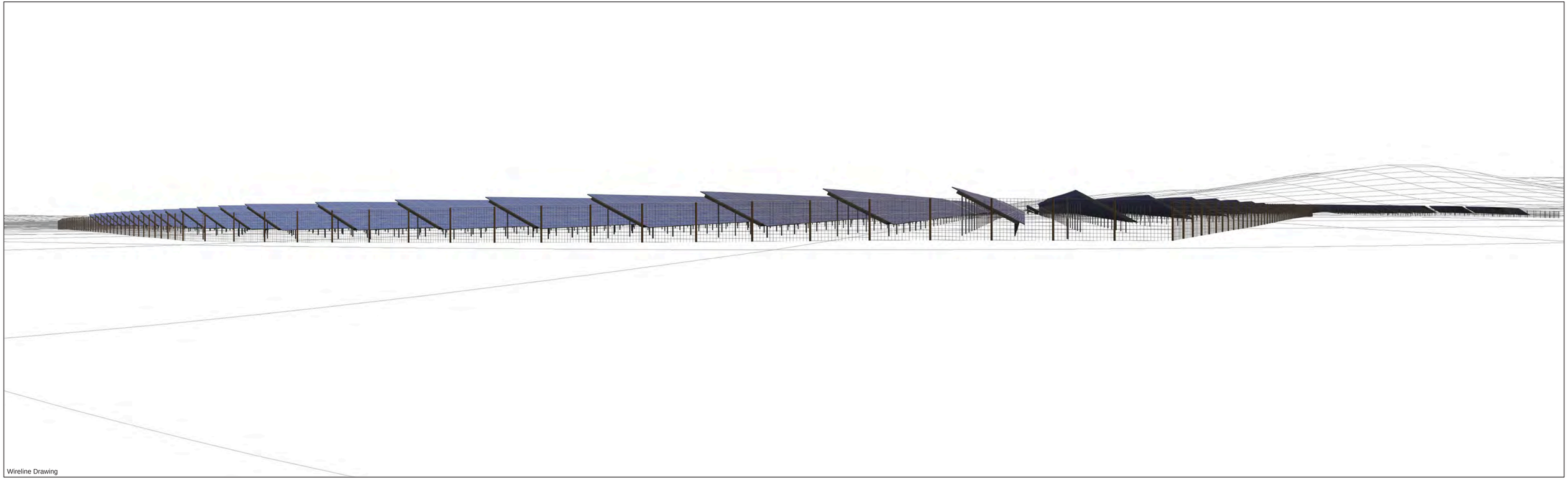
Figure: 1a: Viewpoint 1
1 and 2 Swallet Farm Cottages

OS Reference:	398144 180085
VP elevation (AOD):	62m
Direction of View:	75˚
Distance to site:	On site boundary

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 1 (annotated photograph)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:15





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OS Reference:	398144 180085	Horizontal field of view:	90˚ (cylindrical projection)	Camera:	Sony A7 IV
VP elevation (AOD):	62m	Enlargement / Sheet size:	96% @ A1	Lens:	Sigma 50mm f/1.4 DG HSM Art
Direction of View:	75˚	Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm	Camera Height:	1.5m AGL
Distance to site:	On site boundary	Visualisation type:	Type 2 (wireline)	Date and Time:	26/06/2023 12:15

Figure: 1b: Viewpoint 1
1 and 2 Swallet Farm Cottages



Figure: 1c: Viewpoint 1
1 and 2 Swallet Farm Cottages

OS Reference:	398144 180085
VP elevation (AOD):	62m
Direction of View:	75˚
Distance to site:	On site boundary

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 4 (verifiable photomontage)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:15





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OS Reference:	398144 180085	Horizontal field of view:	90˚ (cylindrical projection)	Camera:	Sony A7 IV
VP elevation (AOD):	62m	Enlargement / Sheet size:	96% @ A1	Lens:	Sigma 50mm f/1.4 DG HSM Art
Direction of View:	75˚	Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm	Camera Height:	1.5m AGL
Distance to site:	On site boundary	Visualisation type:	Type 4 (verifiable photomontage)	Date and Time:	26/06/2023 12:15

Figure: 1d: Viewpoint 1
1 and 2 Swallet Farm Cottages



Figure: 1e: Viewpoint 1
1 and 2 Swallet Farm Cottages

OS Reference:	398144 180085
VP elevation (AOD):	62m
Direction of View:	75˚
Distance to site:	On site boundary

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 4 (verifiable photomontage)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:15





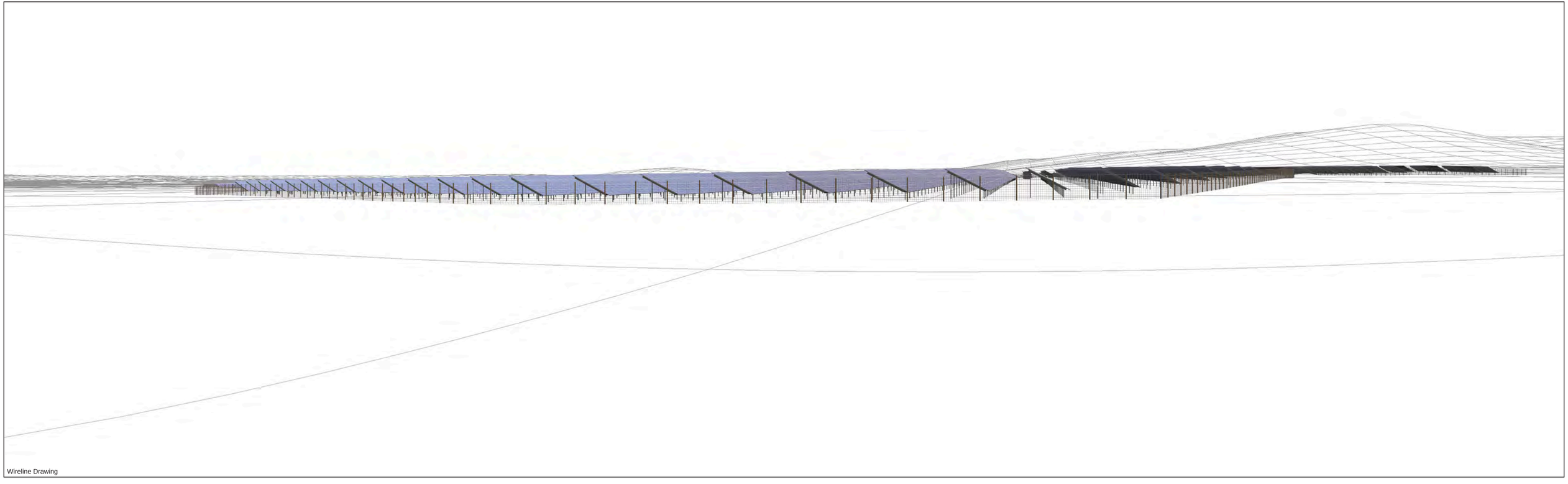
Figure: 2a: Viewpoint 2
Verge outside Swallett House and Swallett Lodge

OS Reference:	398128 180078
VP elevation (AOD):	62.5m
Direction of View:	77˚
Distance to site:	97.2 km

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 1 (annotated photograph)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:20





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OS Reference:	398134 180095	Horizontal field of view:	90˚ (cylindrical projection)	Camera:	Sony A7 IV
VP elevation (AOD):	62.5m	Enlargement / Sheet size:	96% @ A1	Lens:	Sigma 50mm f/1.4 DG HSM Art
Direction of View:	77˚	Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm	Camera Height:	1.5m AGL
Distance to site:	97.2m	Visualisation type:	Type 2 (wireline)	Date and Time:	26/06/2023 12:20

Figure: 2b: Viewpoint 2
Verge outside Swallett House and Swallett Lodge



Figure: 2c: Viewpoint 2
Verge outside Swallett House and Swallett Lodge

OS Reference:	398128 180078
VP elevation (AOD):	62.5m
Direction of View:	77˚
Distance to site:	97.2 km

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 4 (verifiable photomontage)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:20





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OS Reference:	398134 180095	Horizontal field of view:	90˚ (cylindrical projection)	Camera:	Sony A7 IV
VP elevation (AOD):	62.5m	Enlargement / Sheet size:	96% @ A1	Lens:	Sigma 50mm f/1.4 DG HSM Art
Direction of View:	77˚	Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm	Camera Height:	1.5m AGL
Distance to site:	97.2m	Visualisation type:	Type 4 (verifiable photomontage)	Date and Time:	26/06/2023 12:20

Figure: 2d: Viewpoint 2
Verge outside Swallett House and Swallett Lodge



Figure: 2e: Viewpoint 2
Verge outside Swallett House and Swallett Lodge

OS Reference:	398128 180078
VP elevation (AOD):	62.5m
Direction of View:	77˚
Distance to site:	97.2 km

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 4 (verifiable photomontage)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 12:20





Figure: 3a: Viewpoint 3
View from inside site - Malford House

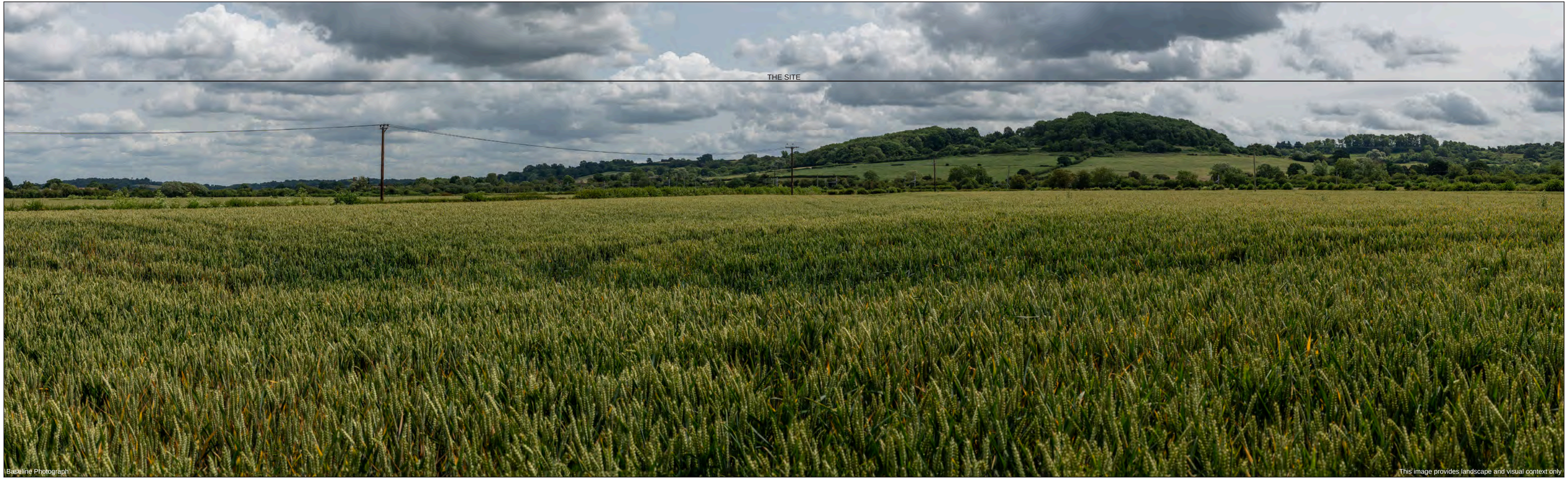
OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	18˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 1 (annotated photograph)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

This viewpoint has 270° included angle which is separated in 3 pages of 90° included angle.





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This viewpoint has 270° included angle which is separated in 3 pages of 90° included angle.

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	108˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 1 (annotated photograph)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

Figure: 3b: Viewpoint 3
View from inside site - Malford House



Figure: 3c: Viewpoint 3
View from inside site - Malford House

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	198˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 1 (annotated photograph)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

This viewpoint has 270° included angle which is separated in 3 pages of 90° included angle.



FTR STUDIO

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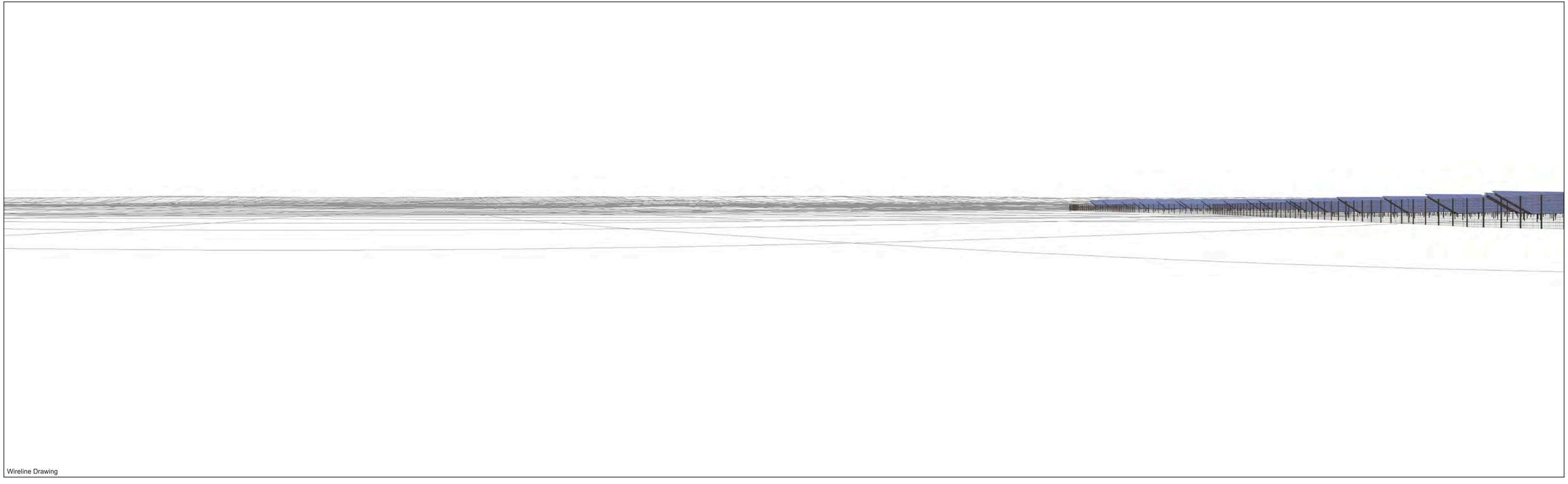

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This viewpoint has 270° included angle which is separated in 3 pages of 90° included angle.

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	18˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 2 (wireline)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

Figure: 3d: Viewpoint 3
View from inside site - Malford House

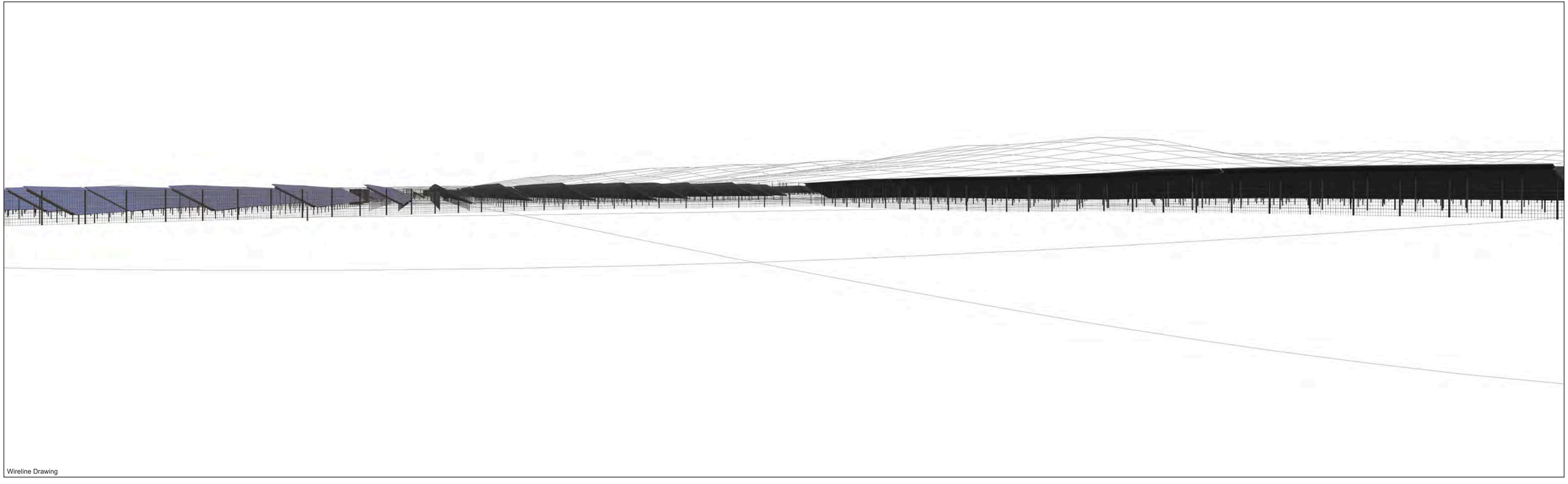

Figure: 3e: Viewpoint 3
View from inside site - Malford House

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	108˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 2 (wireline)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

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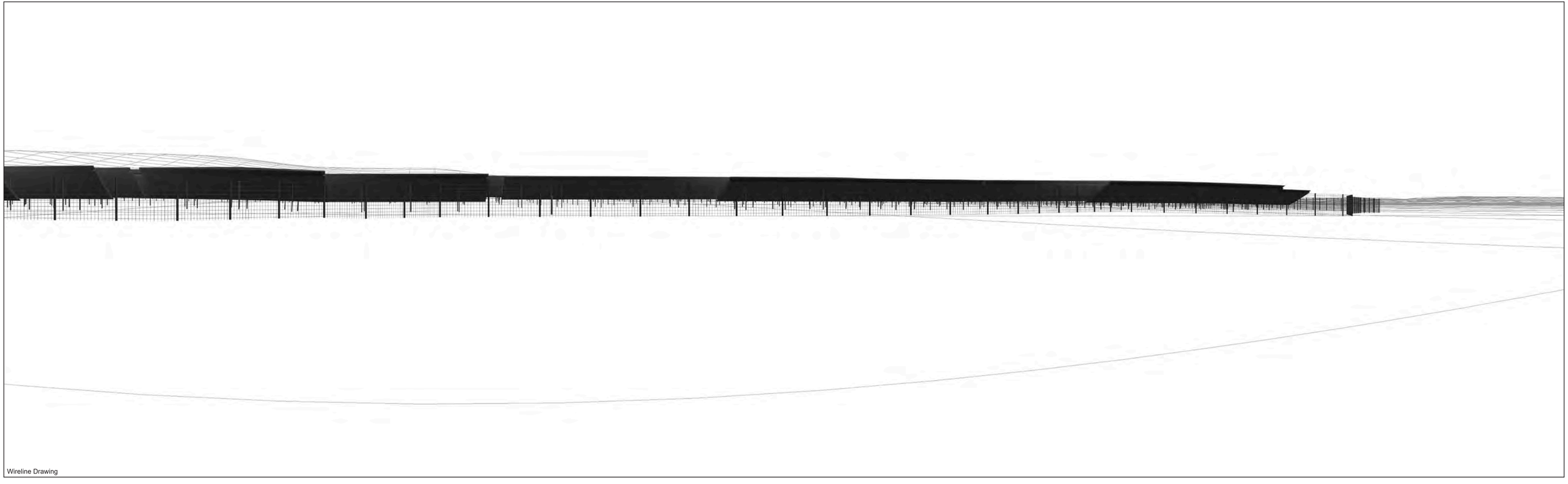

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This viewpoint has 270° included angle which is separated in 3 pages of 90° included angle.

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	198˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 2 (wireline)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

Figure: 3f: Viewpoint 3
View from inside site - Malford House



Figure: 3g: Viewpoint 3
View from inside site - Malford House

OS Reference:	398430 180357
VP elevation (AOD):	61.8m
Direction of View:	18˚
Distance to site:	Inside the site

Horizontal field of view:	90˚ (cylindrical projection)
Enlargement / Sheet size:	96% @ A1
Sheet size / Image size:	841 mm x 297 mm / 820 mm x 250 mm
Visualisation type:	Type 4 (verifiable photomontage)

Camera:	Sony A7 IV
Lens:	Sigma 50mm f/1.4 DG HSM Art
Camera Height:	1.5m AGL
Date and Time:	26/06/2023 11:50

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