

# RWE

## High Grove Solar Environmental Impact Assessment Scoping Report Figures Part 1

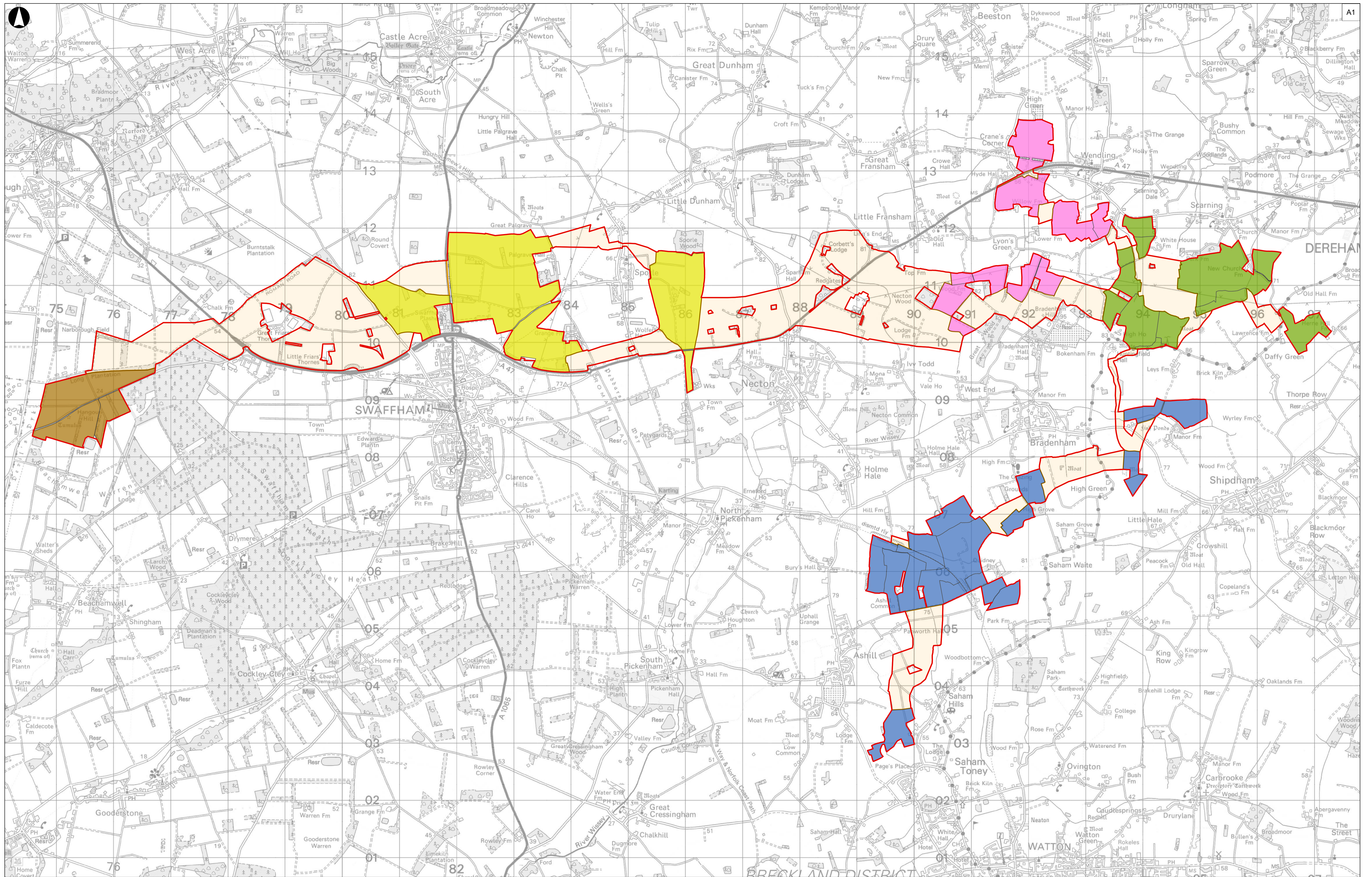
September 2024











**Legend**

- draft Order Limits
- Cable Corridors
- Panel Areas**
- Central
- Eastern
- Northern
- Southern
- Western

Metres  
0 500 1,000 2,000

Coordinate System: British National Grid  
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P01	04/09/2024	JEP	HJ	HJ	CS
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Client

# RWE

Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.1 draft Order Limits**

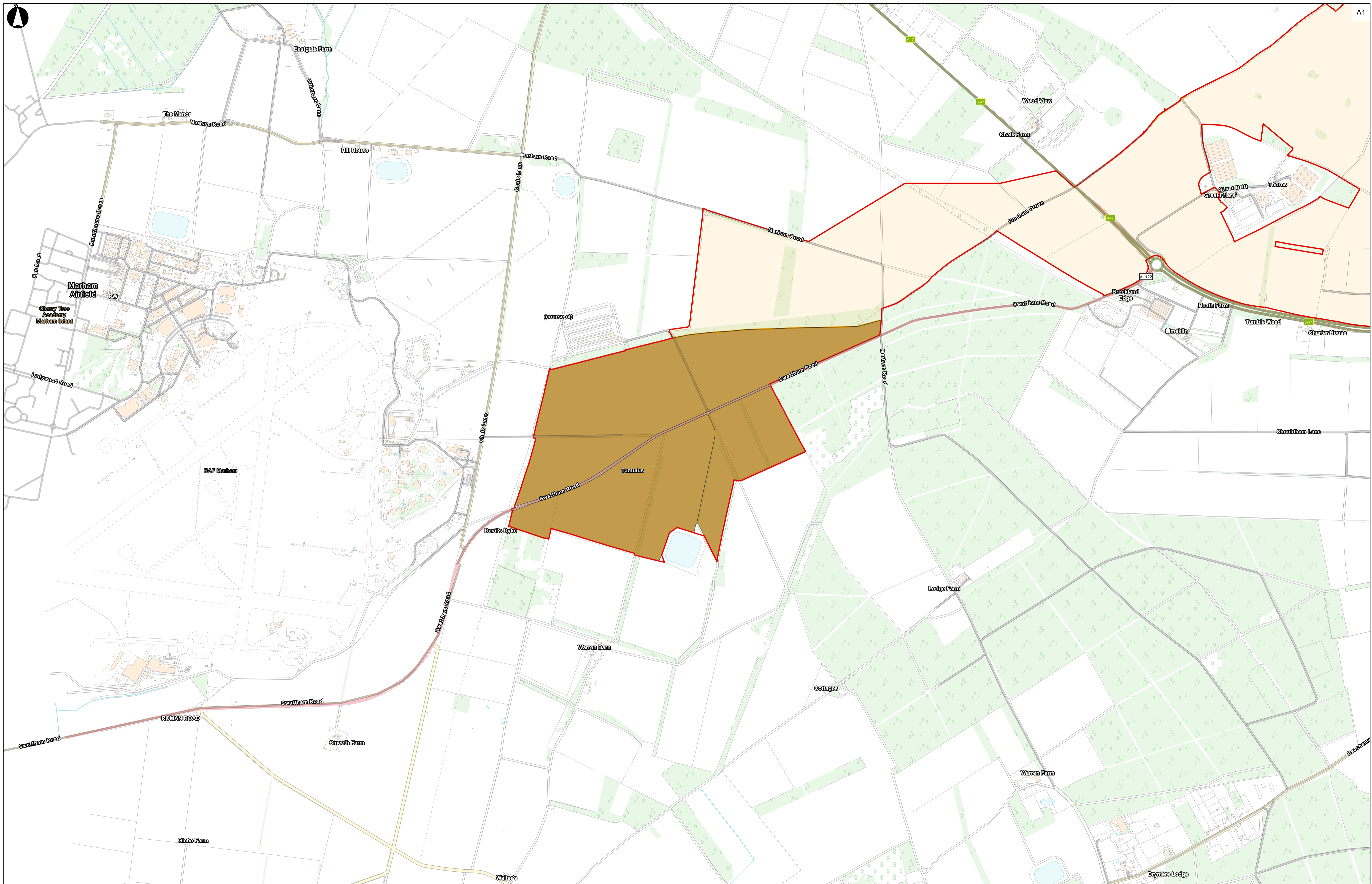
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Role  
**Scoping Report**

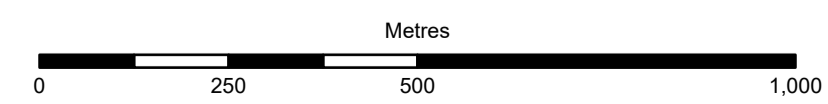
**Issue**

Project Number <b>300883-00</b>	Rev <b>P01</b>
Drawing Name <b>HGS-SR02-00001</b>	





- Legend**
- draft Order Limits
  - Western Panel Area
  - Cable Corridors



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Rev	Date	By	Chkd	Appd	Authd

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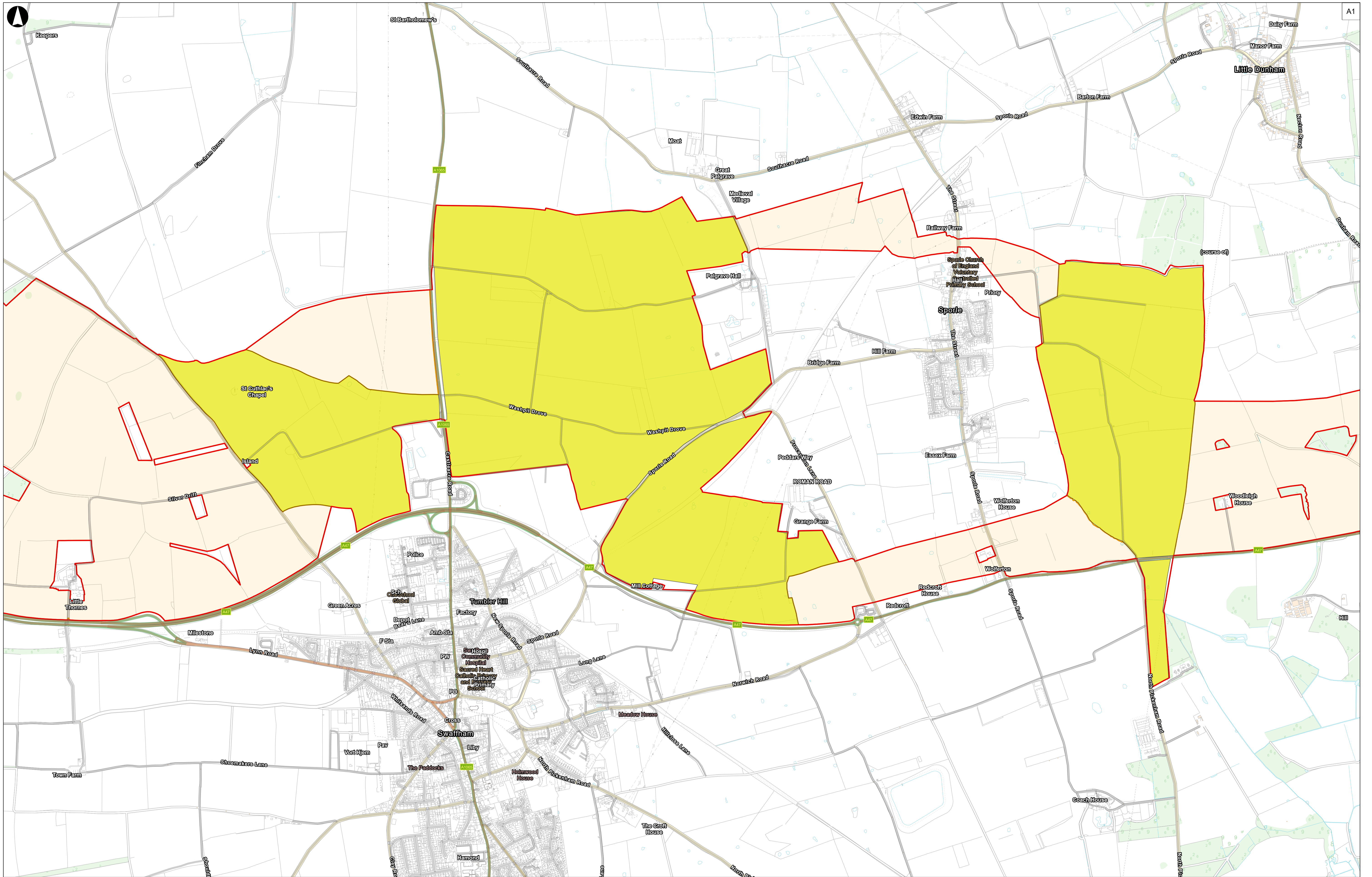
Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.2 General Arrangement - Western Panel Area**

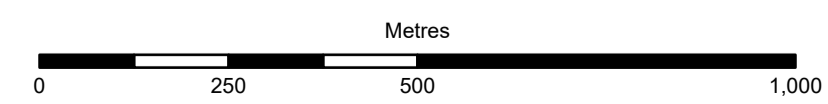
Scale at A1  
**1:10,000**  
 Role  
**Scoping Report**  
 Suitability  
**Issue**  
 Project Number  
**300883-00**  
 Drawing Name  
**HGS-SR02-00002**

Rev **P01**





Legend  
 [Red outline] draft Order Limits  
 [Yellow fill] Central Panel Area  
 [Orange fill] Cable Corridor



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Client



Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.3 General Arrangement - Central Panel Area**

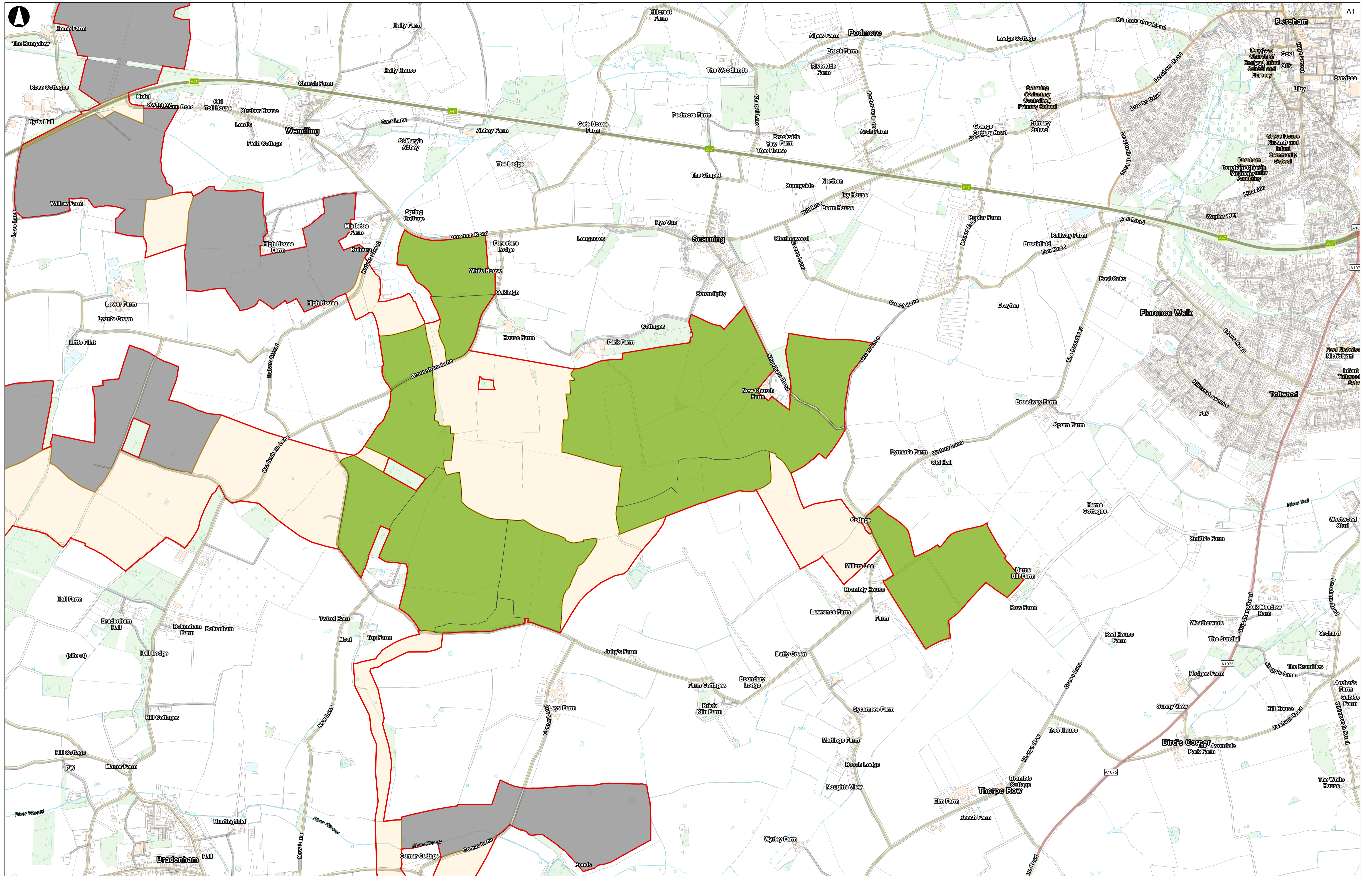
Scale at A1  
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 Role  
**Scoping Report**  
 Suitability  
**Issue**  
 Project Number  
**300883-00**  
 Drawing Name  
**HGS-SR02-00003**

Rev	P01
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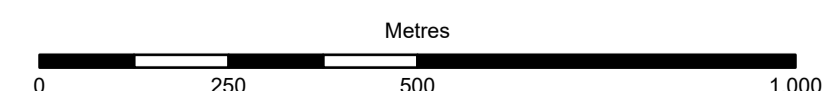






**Legend**

- draft Order Limits
- Eastern Panel Area
- Other areas of proposed development
- Cable Corridor



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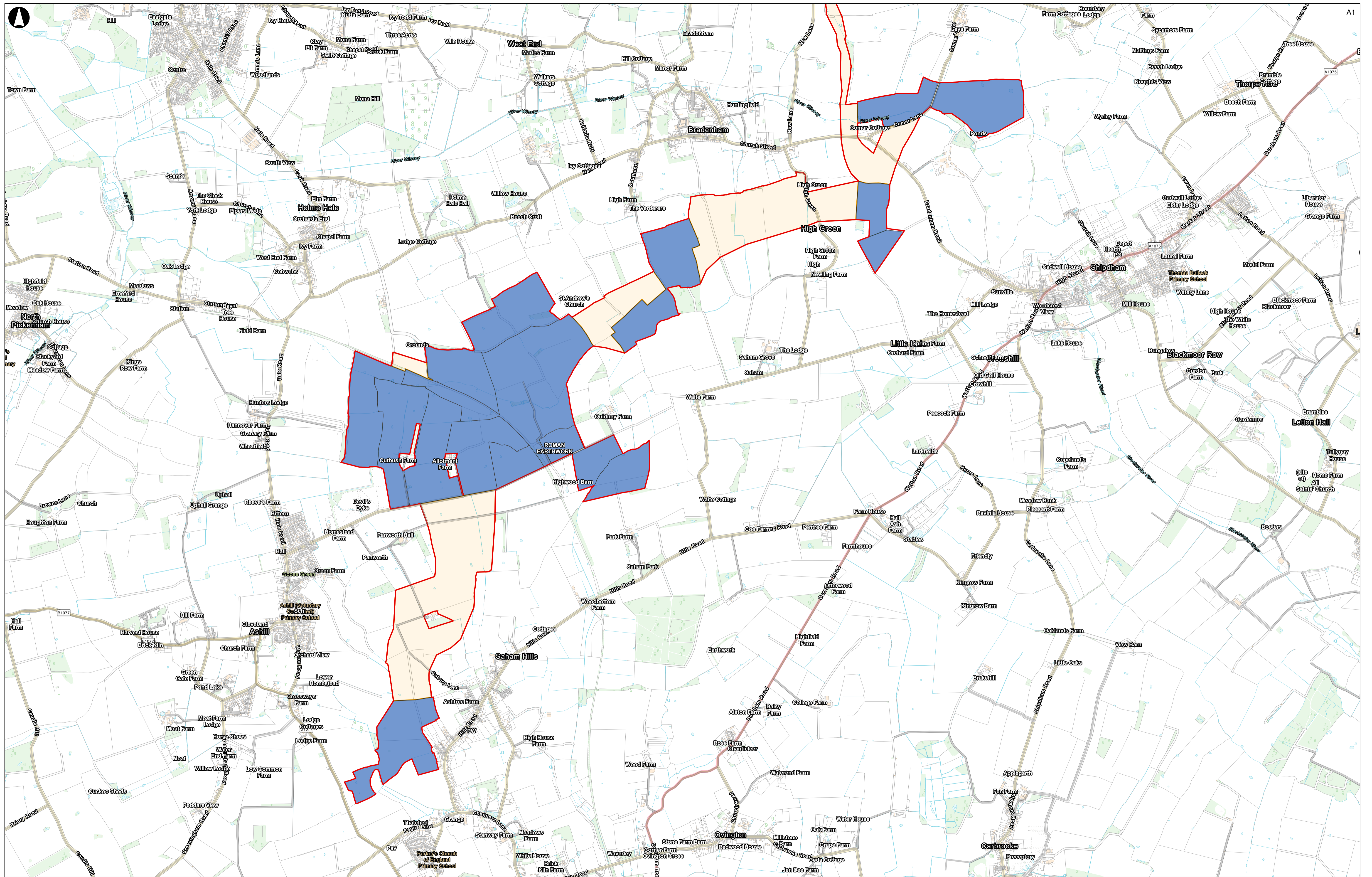
Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.5 General Arrangement - Eastern Panel Area**

Scale at A1  
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 Role  
**Scoping Report**  
 Issue  
 Project Number  
**300883-00**  
 Drawing Name  
**HGS-SR02-00005**

Rev	P01
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Legend

- draft Order Limits
- Southern Panel Area
- Cable Corridor

Scale at A1  
**1:15,000**  
 Role  
**Scoping Report**  
 Suitability  
**Issue**  
 Project Number  
**300883-00**  
 Drawing Name  
**HGS-SR02-00006**

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Client

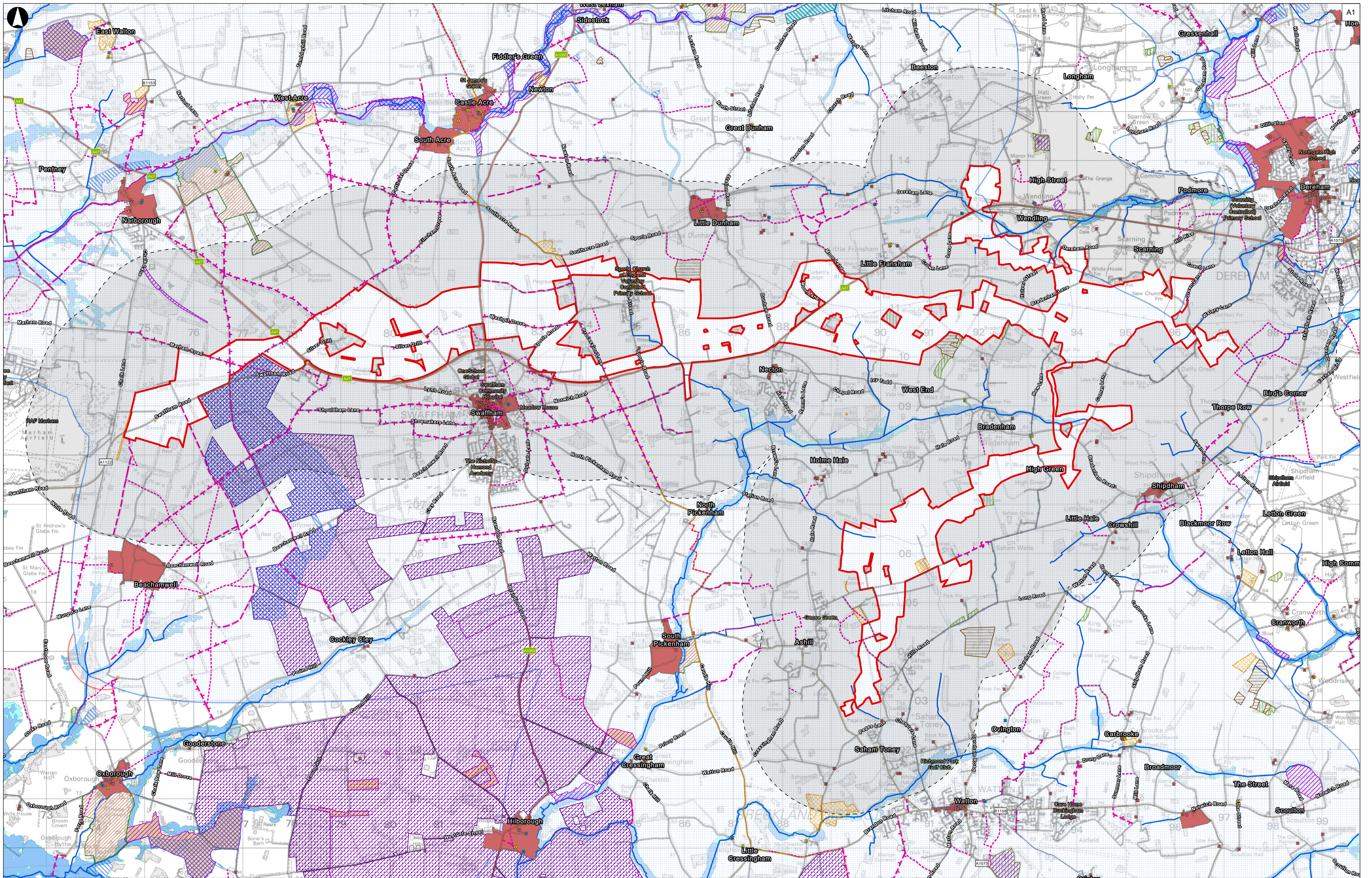
**RWE**

Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.6 General Arrangement - Southern Panel Area**

Scale at A1	<b>1:15,000</b>
Role	
<b>Scoping Report</b>	
Suitability	
<b>Issue</b>	
Project Number	<b>300883-00</b>
Drawing Name	<b>HGS-SR02-00006</b>
Rev	<b>P01</b>





**Legend**

- draft Order Limits
- draft Order Limits 2km Buffer
- National Cycle Network
- National Trails
- Heritage Assets
- Listed Buildings (Grade)
- I
- II\*
- Byway Open to All Traffic
- Restricted Byway
- Conservation Areas
- Registered Parks and Gardens
- Scheduled Monuments
- Biodiversity Sites
- Ancient & Semi-Natural Woodland
- Ancient Replanted Woodland
- Country Parks
- CRoW Access Land
- Local Nature Reserves (LNR)
- Sites Of Special Scientific Interest (SSSI)
- Special Areas Of Conservation (SAC)
- Special Protection Areas
- Water Environment
- Watercourses
- Rivers and Sea Flood Zone 2
- Rivers and Sea Flood Zone 3
- Source Protection Zone
- Zone I - Inner Protection Zone
- Zone II - Outer Protection Zone
- Zone III - Total Catchment
- Zone of Special Interest

Coordinate System: British National Grid

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0 500 1,000 2,000 Metres

Client

Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.7 Environmental Designations**

Scale at A1  
**1:35,000**

Role  
**Scoping Report**

Issue  
Suitability

Project Number <b>300883-00</b>	Rev <b>P01</b>
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Drawing Name  
**HGS-SR02-00007**





Table back view – cable suspension system

Wire connecting table pylons as a base for hangers

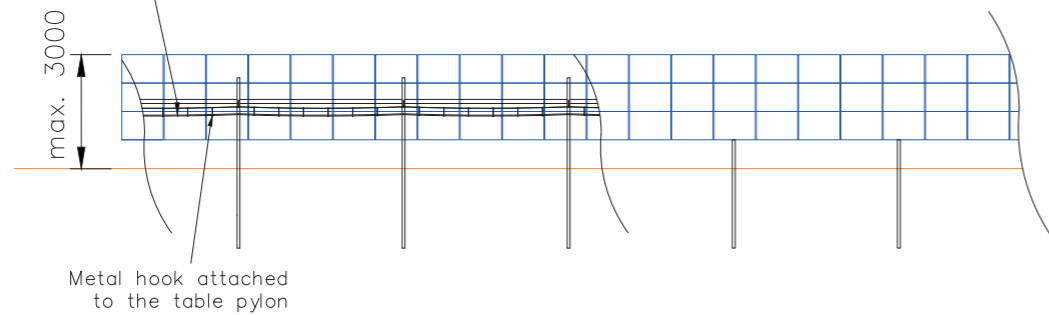
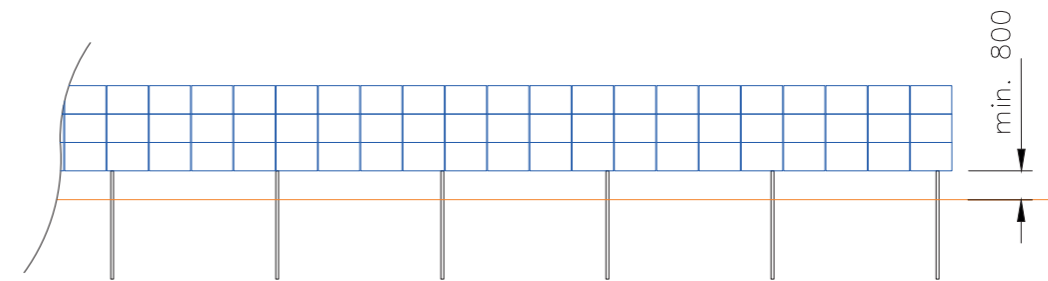
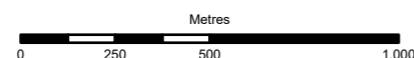


Table front view – 3 modules in portrait scale 1:200



Notes

1. All details are indicative only.
2. Dimensions are in metres unless stated otherwise.



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Client



Project Name

High Grove Solar

Drawing Title

Figure 2.8  
 Sheet 1 of 4  
 Cross-section of a typical fixed solar panel (normal and ballasted)

Scale at A3

1:20,000

Role

Scoping Report

Suitability

Issued

Project Number

300883-00

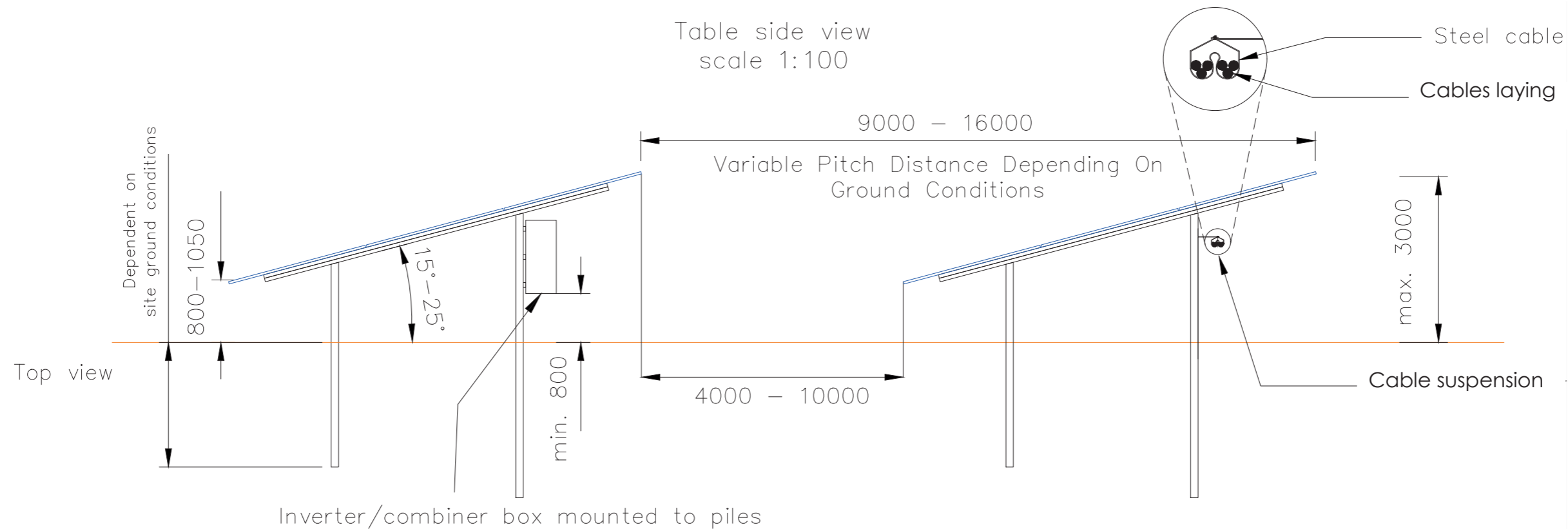
Drawing Number

HGS-SR02-00008

Rev

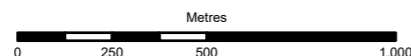
P01





Notes

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Service or layer credits:

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Rev	Date	By	Chkd	Appd	Authd

Client



Project Name

High Grove Solar

Drawing Title

Figure 2.8  
Sheet 2 of 4  
Cross-section of a typical fixed  
solar panel (normal and ballasted)

Scale at A3

1:20,000

Role

Scoping Report

Suitability

Issued

Project Number  
300883-00

Rev  
P01

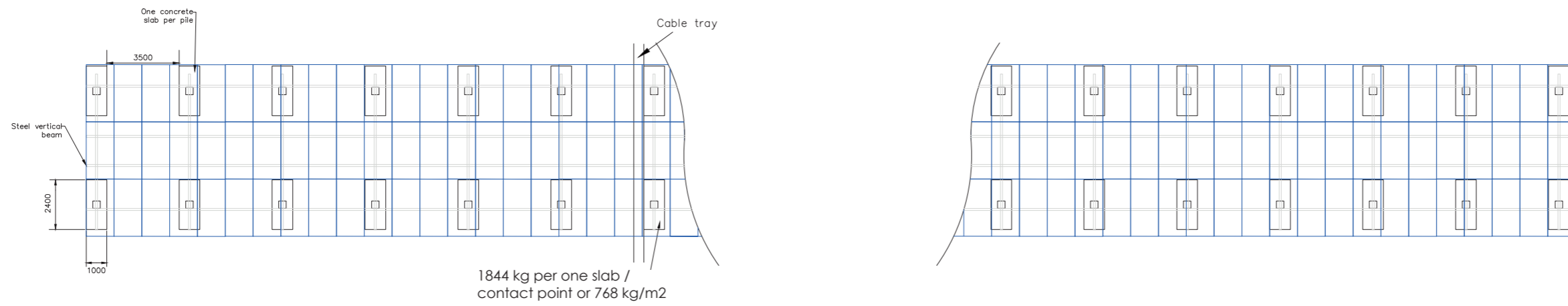
Drawing Number

HGS-SR02-00008



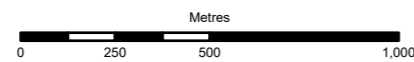


Birdseye view – 3 modules in portrait  
scale 1:200 @A1



**Notes**

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Client



Project Name

**High Grove Solar**

Drawing Title

**Figure 2.8**  
**Sheet 3 of 4**  
**Cross-section of a typical fixed solar panel (normal and ballasted)**

Scale at A3

**1:20,000**

Role

**Scoping Report**

Suitability

**Issued**

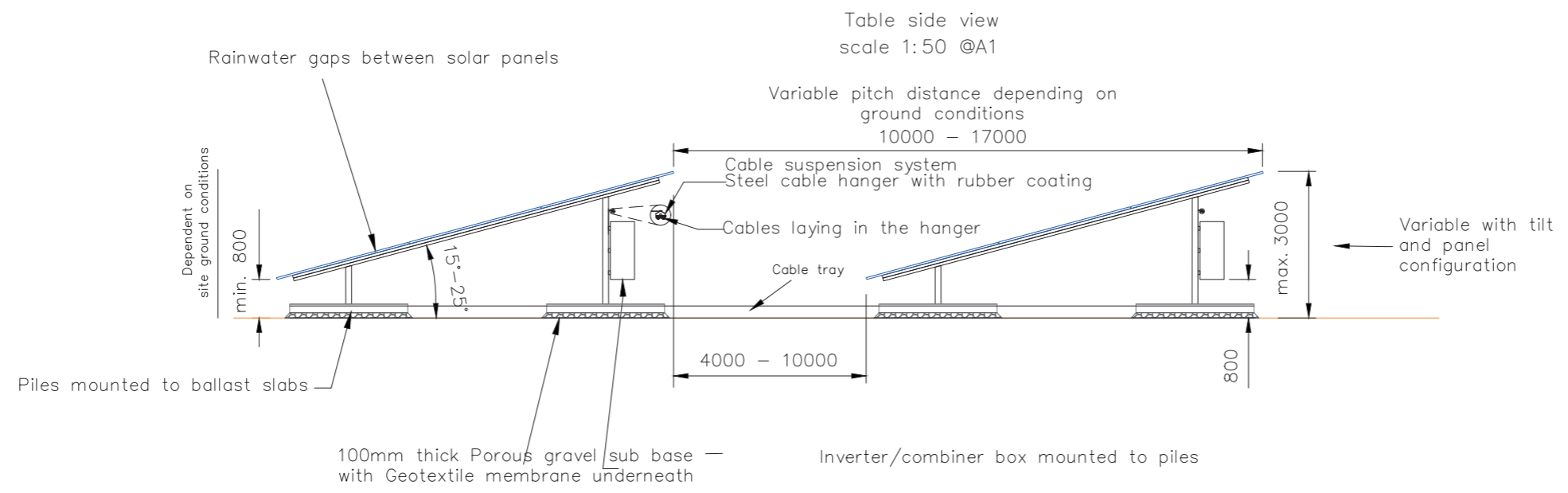
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Rev  
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Drawing Number

**HGS-SR02-00008**





Ground cross-section side view (not to scale)

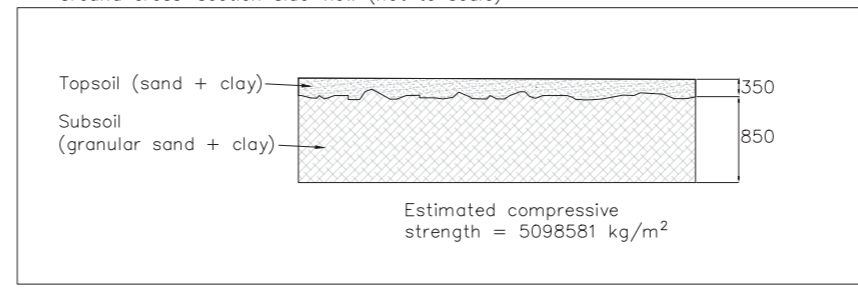
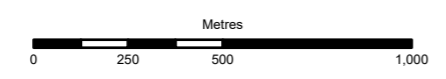


Table 1: Constituents of a contact point

Item name	Weight [kg]
15 PV Panels	420
PV frame for 15 panels	45
Solar inverter for 15 Panels	90
Shingle layer	379
Concrete slab	1000
TOTAL weight	1844

- Notes**
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  - Dimensions are in metres unless stated otherwise.



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Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.8  
Sheet 4 of 4  
Cross-section of a typical fixed solar panel (normal and ballasted)**

Scale at A3  
**1:20,000**

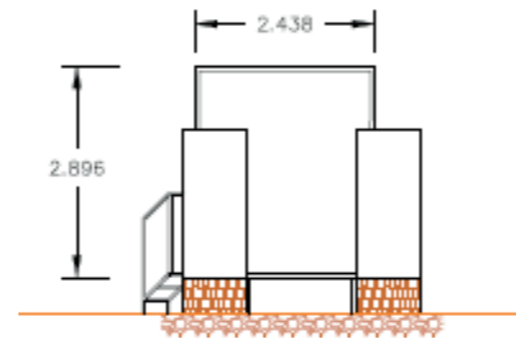
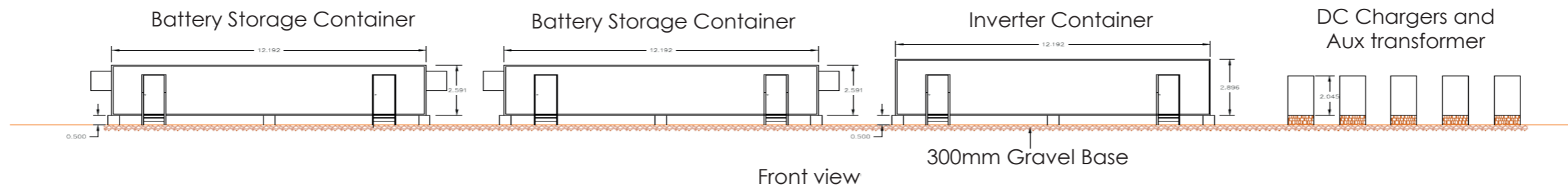
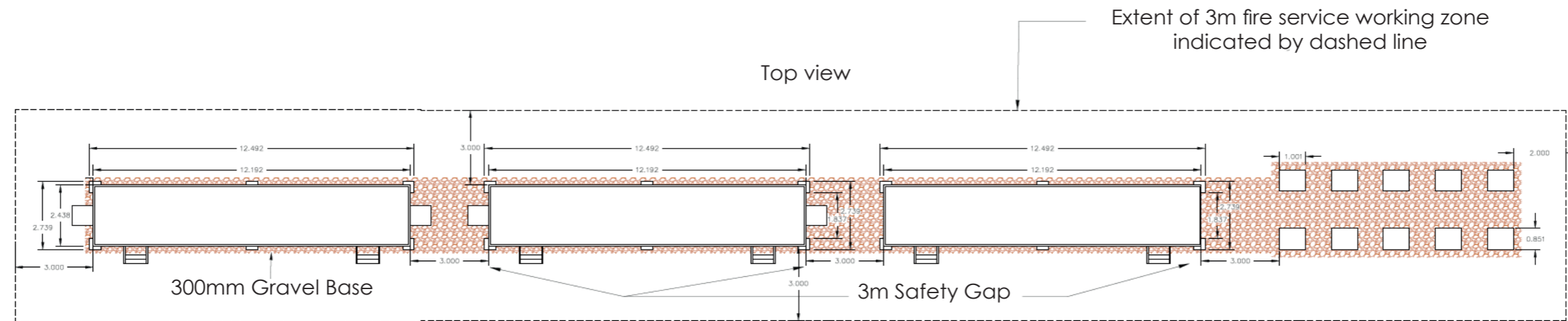
Role  
**Scoping Report**

Suitability  
**Issued**

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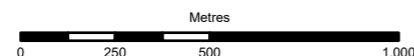
Drawing Number  
**HGS-SR02-00008**





Notes

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Client



Project Name

High Grove Solar

Drawing Title

Figure 2.9  
Typical transformer, inverter and BESS arrangement

Scale at A3

1:20,000

Role

Scoping Report

Suitability

Issued

Project Number  
300883-00

Rev  
P01

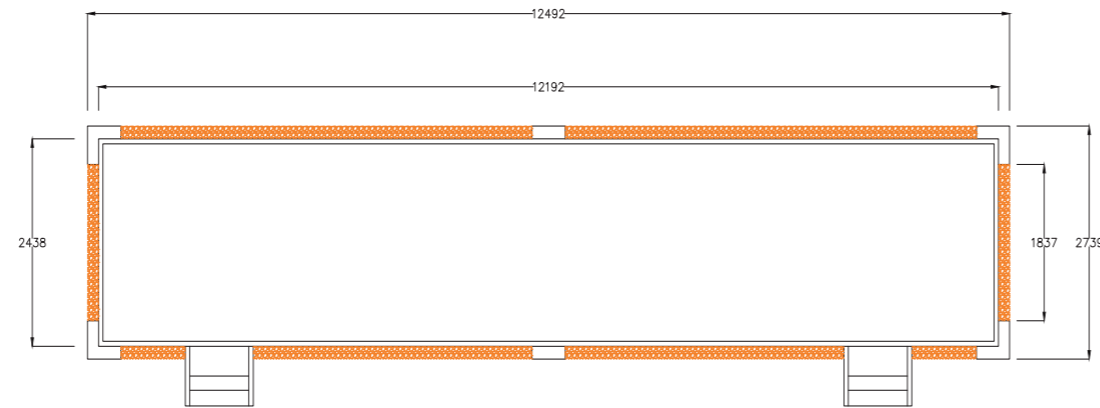
Drawing Number

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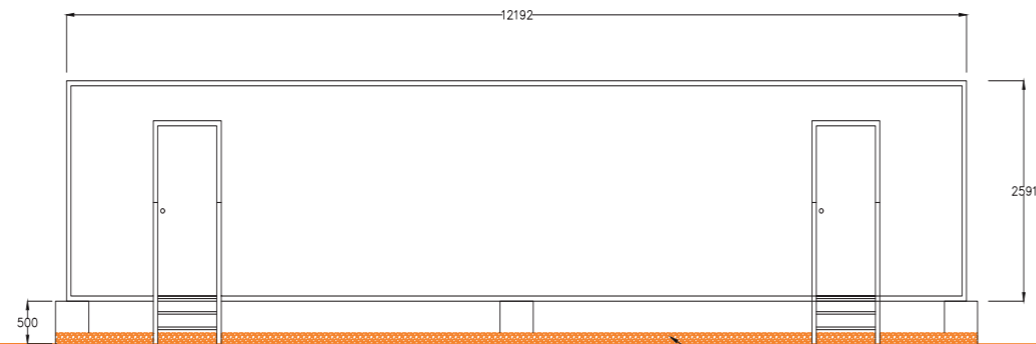




Customer switchgear  
Top view

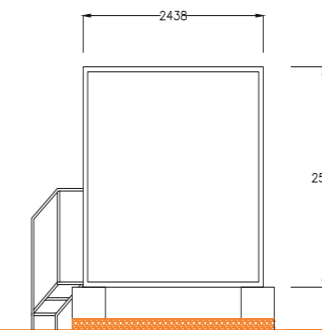


Customer switchgear  
Front view



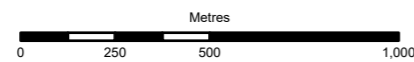
300mm  
gravel base

Customer switchgear  
Side view



**Notes**

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Client



Project Name

**High Grove Solar**

Drawing Title

**Figure 2.10  
Typical switchgear**

Scale at A3

**1:20,000**

Role

**Scoping Report**

Suitability

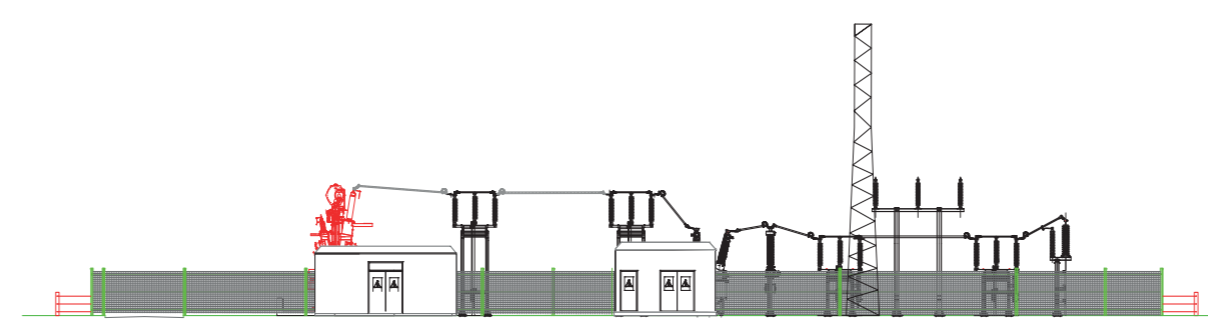
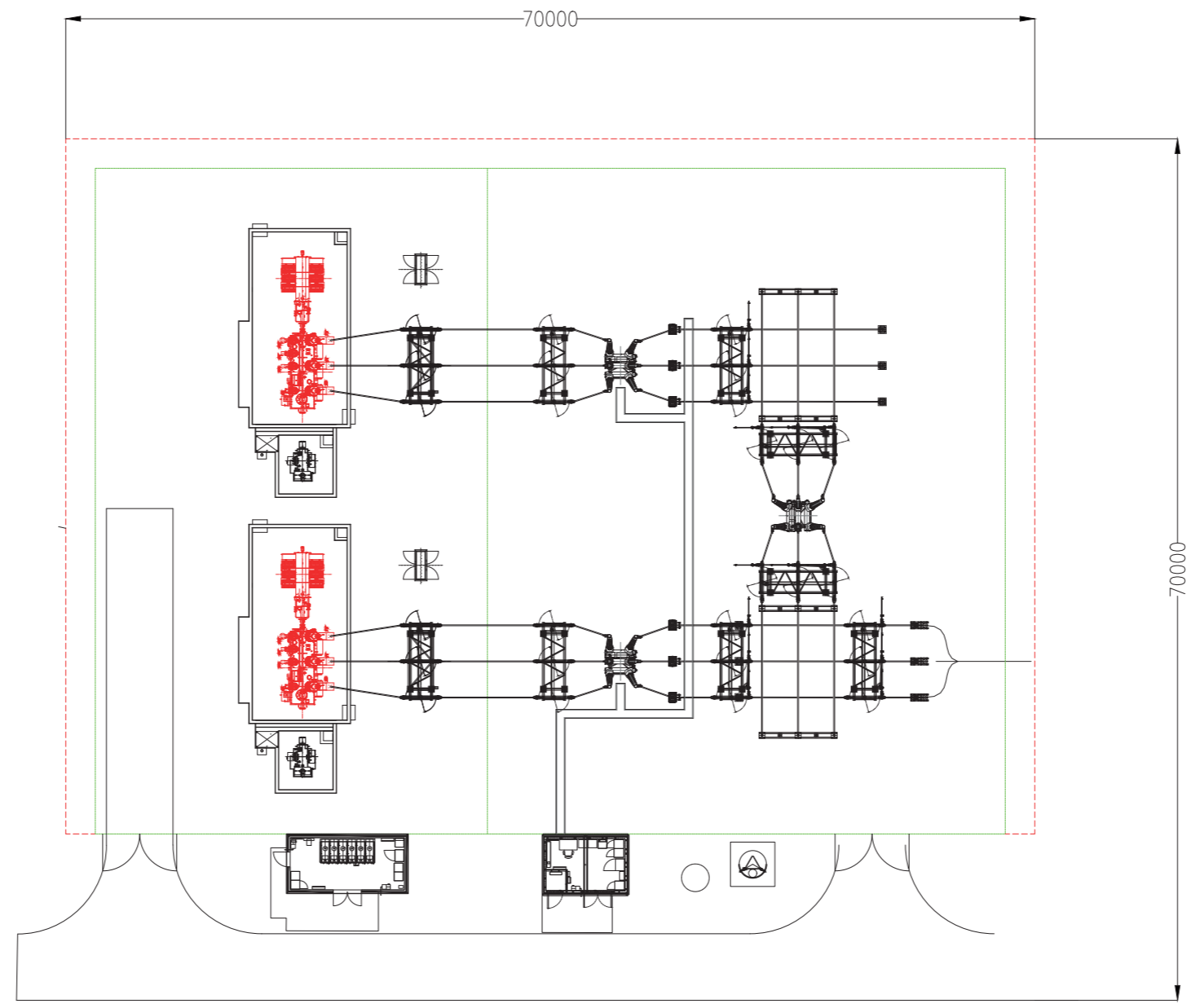
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**P01**

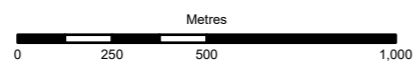
Drawing Number  
**HGS-SR02-00010**





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Project Name

**High Grove Solar**

Drawing Title

**Figure 2.11  
Typical substation**

Scale at A3

**1:20,000**

Role

**Scoping Report**

Suitability

**Issued**

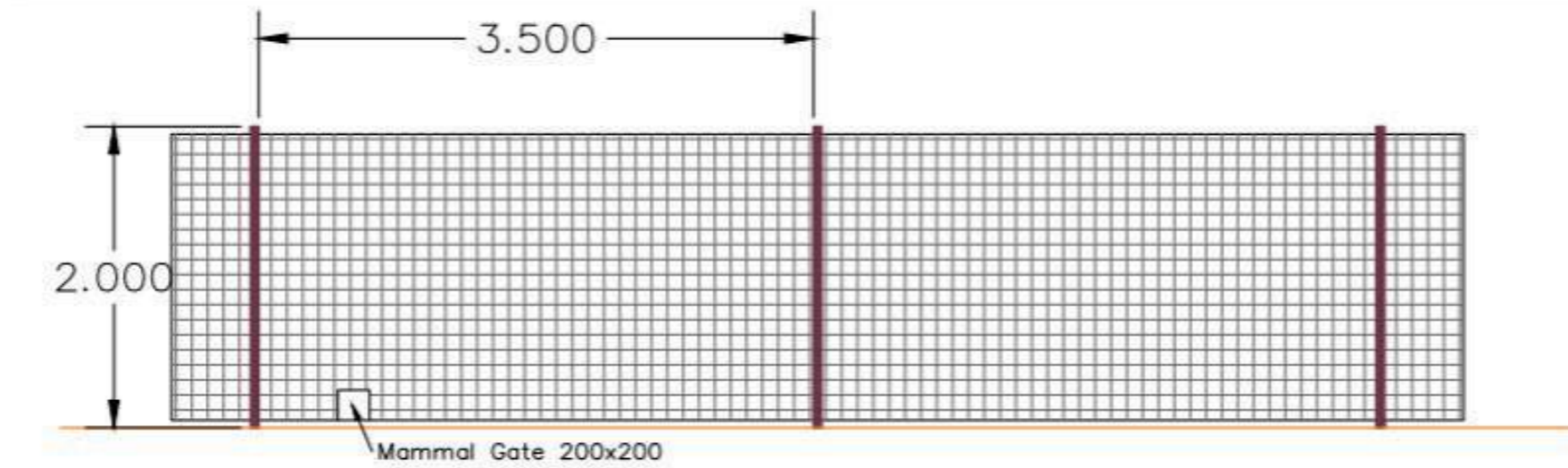
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Rev  
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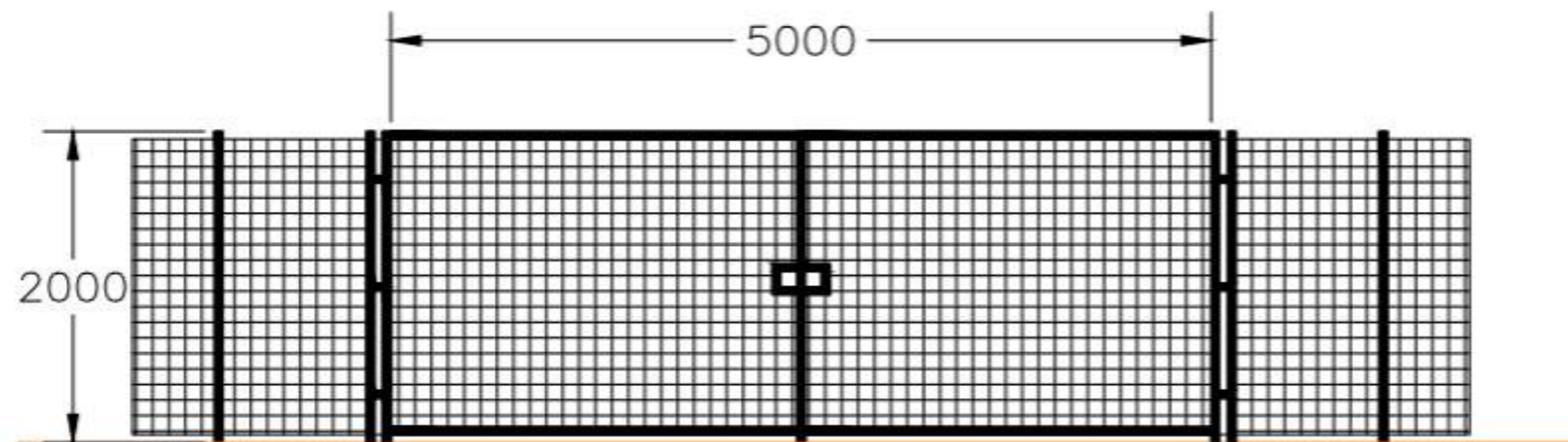
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**HGS-SR02-00011**





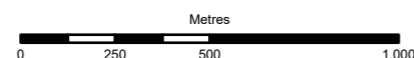
Timber post & wire fence



Timber post & wire gate

Notes

1. All details are indicative only.
2. Dimensions are in metres unless stated otherwise.



Coordinate System: British National Grid

Service or layer credits:

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Client



Project Name

High Grove Solar

Drawing Title

Figure 2.12  
Typical fence and gate

Scale at A3

1:20,000

Role

Scoping Report

Suitability

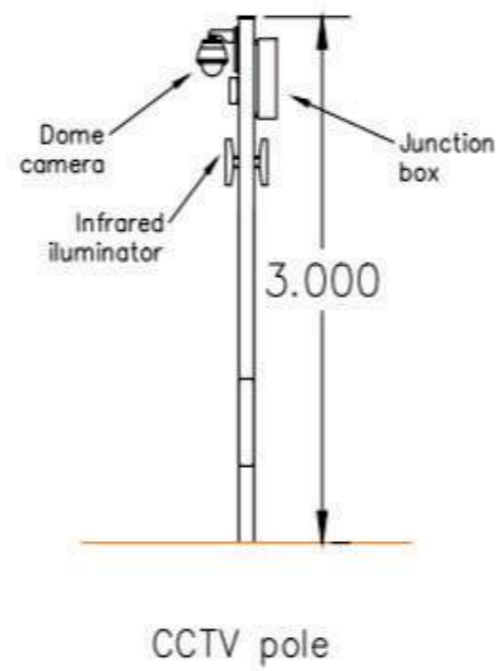
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Project Number  
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Rev  
P01

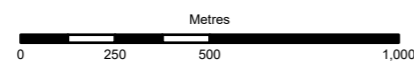
Drawing Number  
HGS-SR02-00012





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Coordinate System: British National Grid

Service or layer credits:

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Project Name

**High Grove Solar**

Drawing Title

**Figure 2.13  
Typical CCTV pole**

Scale at A3

**1:20,000**

Role

**Scoping Report**

Suitability

**Issued**

Project Number  
**300883-00**

Rev  
**P01**

Drawing Number  
**HGS-SR02-00013**





1

**Protect Bird Population:** Provide planting that respects the needs of the local bird population.



2

**Protect the Character of the Landscape:** Preserve the unique features of our landscape by maintaining existing planting wherever possible, creating buffer zones, integrating sites with existing land use and using appropriate new planting types.



3

**Enhance Green Corridors:** Boost the connectivity of existing natural features, by strengthening hedgerows and linking woodlands and grasslands with new native planting. Follow the strategic plans for green infrastructure.



4

**Improve Access to Nature:** Strengthen connections to the Public Right of Way network, making it easier for local residents to enjoy the countryside.



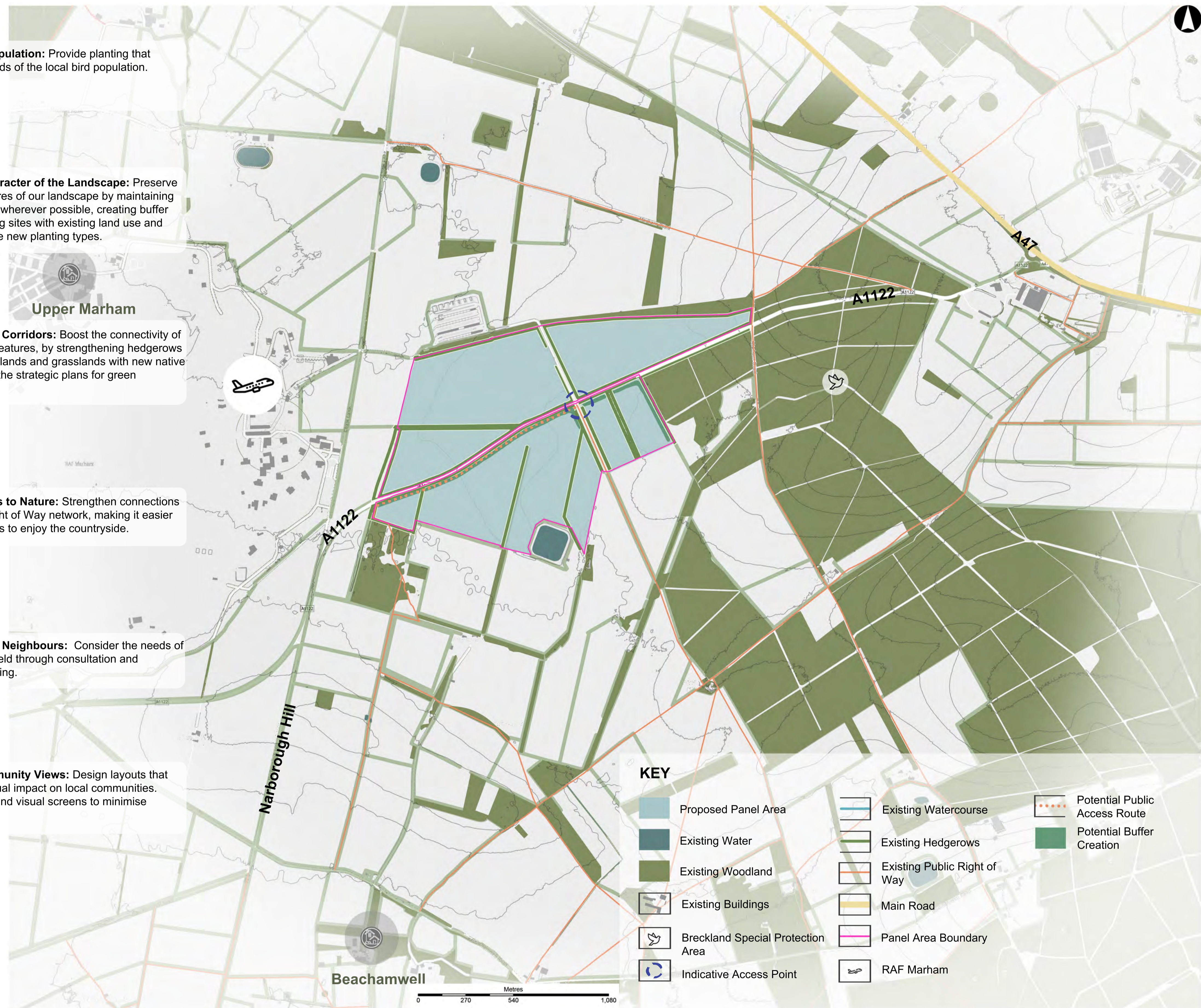
5

**Understand our Neighbours:** Consider the needs of the adjacent airfield through consultation and appropriate planting.



6

**Prioritise Community Views:** Design layouts that consider the visual impact on local communities. Include buffers and visual screens to minimise disturbance.



**KEY**

- Proposed Panel Area
- Existing Water
- Existing Woodland
- Existing Buildings
- Breckland Special Protection Area
- Indicative Access Point
- Existing Watercourse
- Existing Hedgerows
- Existing Public Right of Way
- Main Road
- Panel Area Boundary
- RAF Marham
- Potential Public Access Route
- Potential Buffer Creation



- 1
- 2
- 3
- 4
- 5
- 6
- 7

**Tackle the Climate Crisis:** Introduce wetlands to manage surface water flooding, helping the local environment adapt to the climate crisis.

**Improve Access to Nature:** Explore opportunities to strengthen connections to the Peddars Way National Trail, making it easier for local residents to enjoy the countryside.

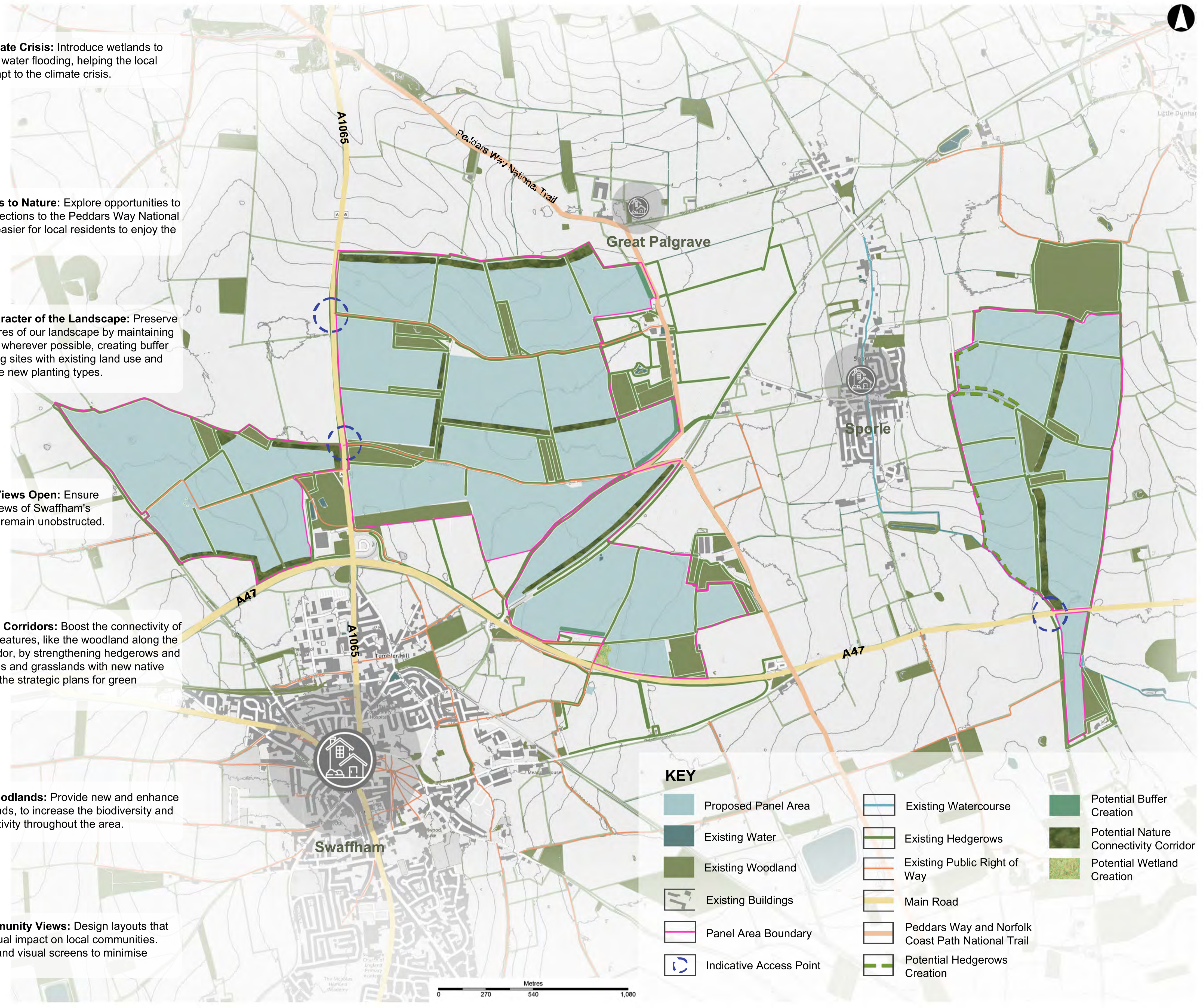
**Protect the Character of the Landscape:** Preserve the unique features of our landscape by maintaining existing planting wherever possible, creating buffer zones, integrating sites with existing land use and using appropriate new planting types.

**Keep Historic Views Open:** Ensure that important views of Swaffham's historic features remain unobstructed.

**Enhance Green Corridors:** Boost the connectivity of existing natural features, like the woodland along the historic rail corridor, by strengthening hedgerows and linking woodlands and grasslands with new native planting. Follow the strategic plans for green infrastructure.

**Create New Woodlands:** Provide new and enhance existing woodlands, to increase the biodiversity and improve connectivity throughout the area.

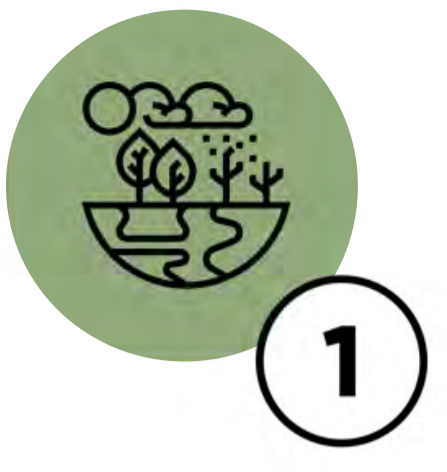
**Prioritise Community Views:** Design layouts that consider the visual impact on local communities. Include buffers and visual screens to minimise disturbance.



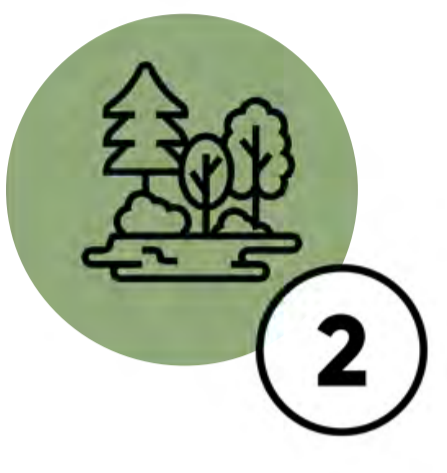
**KEY**

Proposed Panel Area	Existing Watercourse	Potential Buffer Creation
Existing Water	Existing Hedgerows	Potential Nature Connectivity Corridor
Existing Woodland	Existing Public Right of Way	Potential Wetland Creation
Existing Buildings	Main Road	
Panel Area Boundary	Peddars Way and Norfolk Coast Path National Trail	
Indicative Access Point	Potential Hedgerows Creation	





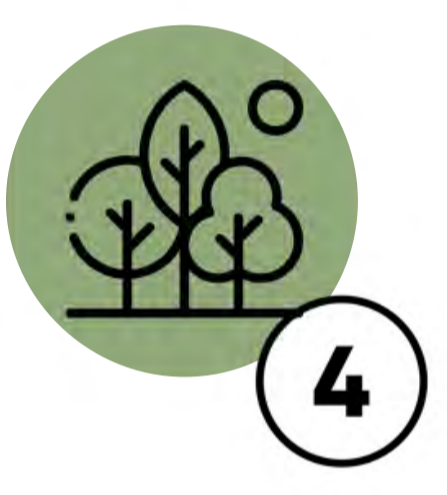
**Tackle the Climate Crisis:** Introduce wetlands to manage surface water flooding, helping the local environment adapt to the climate crisis.



**Enhance Green Corridors:** Boost the connectivity of existing natural features, by strengthening hedgerows and linking woodlands and grasslands with new native planting. Follow the strategic plans for green infrastructure.



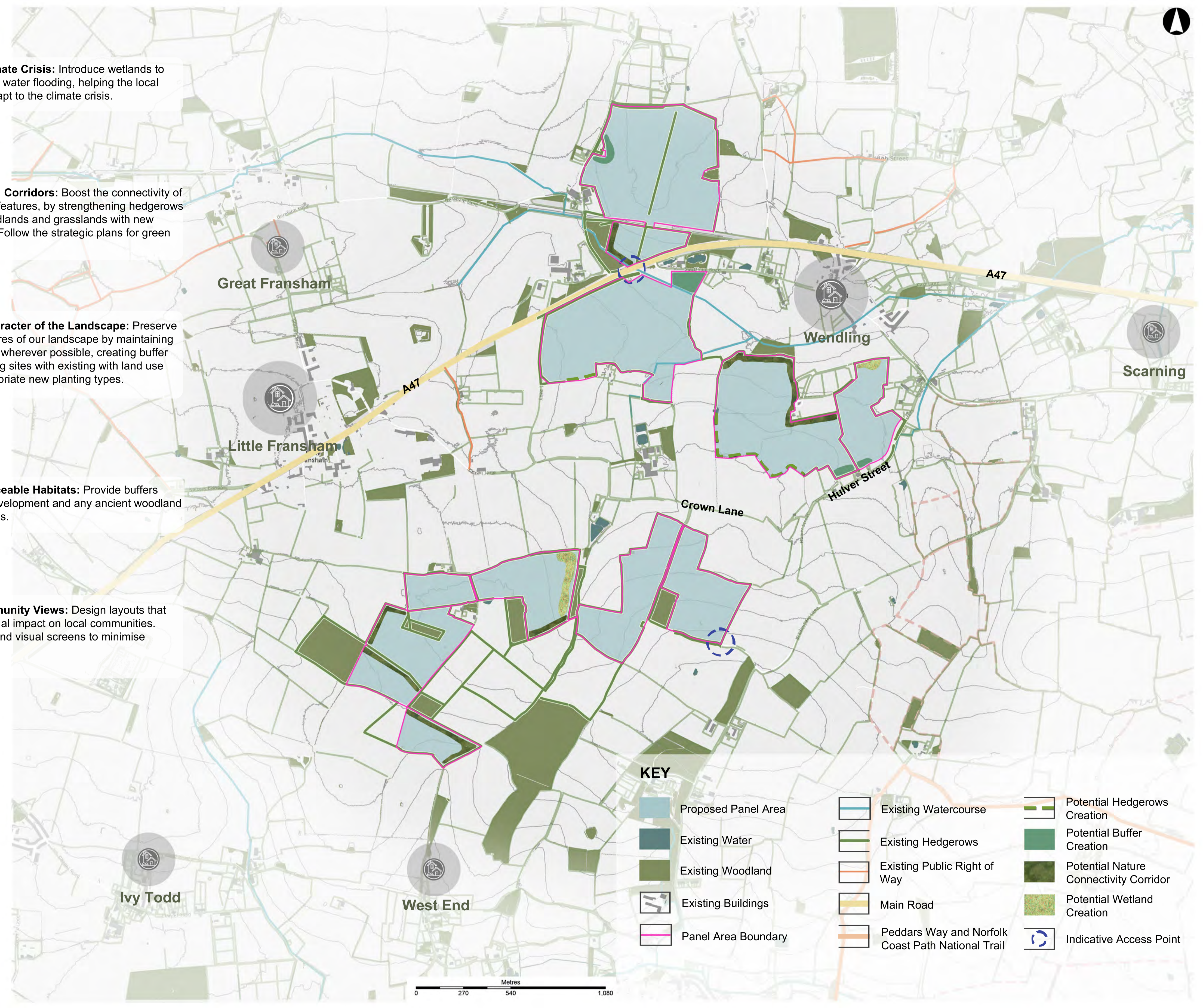
**Protect the Character of the Landscape:** Preserve the unique features of our landscape by maintaining existing planting wherever possible, creating buffer zones, integrating sites with existing with land use and using appropriate new planting types.



**Protect Irreplaceable Habitats:** Provide buffers between any development and any ancient woodland and veteran trees.

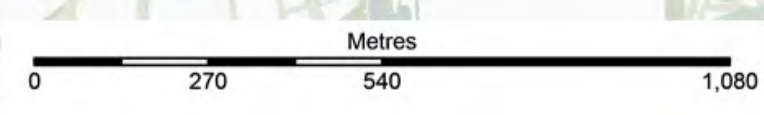


**Prioritise Community Views:** Design layouts that consider the visual impact on local communities. Include buffers and visual screens to minimise disturbance.



**KEY**

- Proposed Panel Area
- Existing Water
- Existing Woodland
- Existing Buildings
- Panel Area Boundary
- Existing Watercourse
- Existing Hedgerows
- Existing Public Right of Way
- Main Road
- Peddars Way and Norfolk Coast Path National Trail
- Potential Hedgerows Creation
- Potential Buffer Creation
- Potential Nature Connectivity Corridor
- Potential Wetland Creation
- Indicative Access Point



Legend  
See figure

Coordinate System: British National Grid  
Service or layer credits:

P01	04/09/2024	JEP	LM	HJ	CS
Rev	Date	By	Chkd	Appd	Authd

Client



Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.14  
Landscape Concept Plan**  
Sheet 3 of 5

Scale at A1  
**1:30,000**

Role  
**Scoping Report**

Suitability  
**Issued**

Project Number  
**300883-00**

Rev  
**P01**

Drawing Number  
**HGS-SR02-00014**





1

**Tackle the Climate Crisis:** Potential to introduce wetlands to manage surface water flooding, helping the local environment adapt to the climate crisis.



2

**Enhance Green Corridors:** Boost the connectivity of existing natural features, by strengthening hedgerows and linking woodlands and grasslands with new native planting. Follow the strategic plans for green infrastructure.



3

**Protect the Character of the Landscape:** Preserve the unique features of our landscape by maintaining existing planting wherever possible, creating buffer zones, integrating sites with existing land use and using appropriate new planting types.



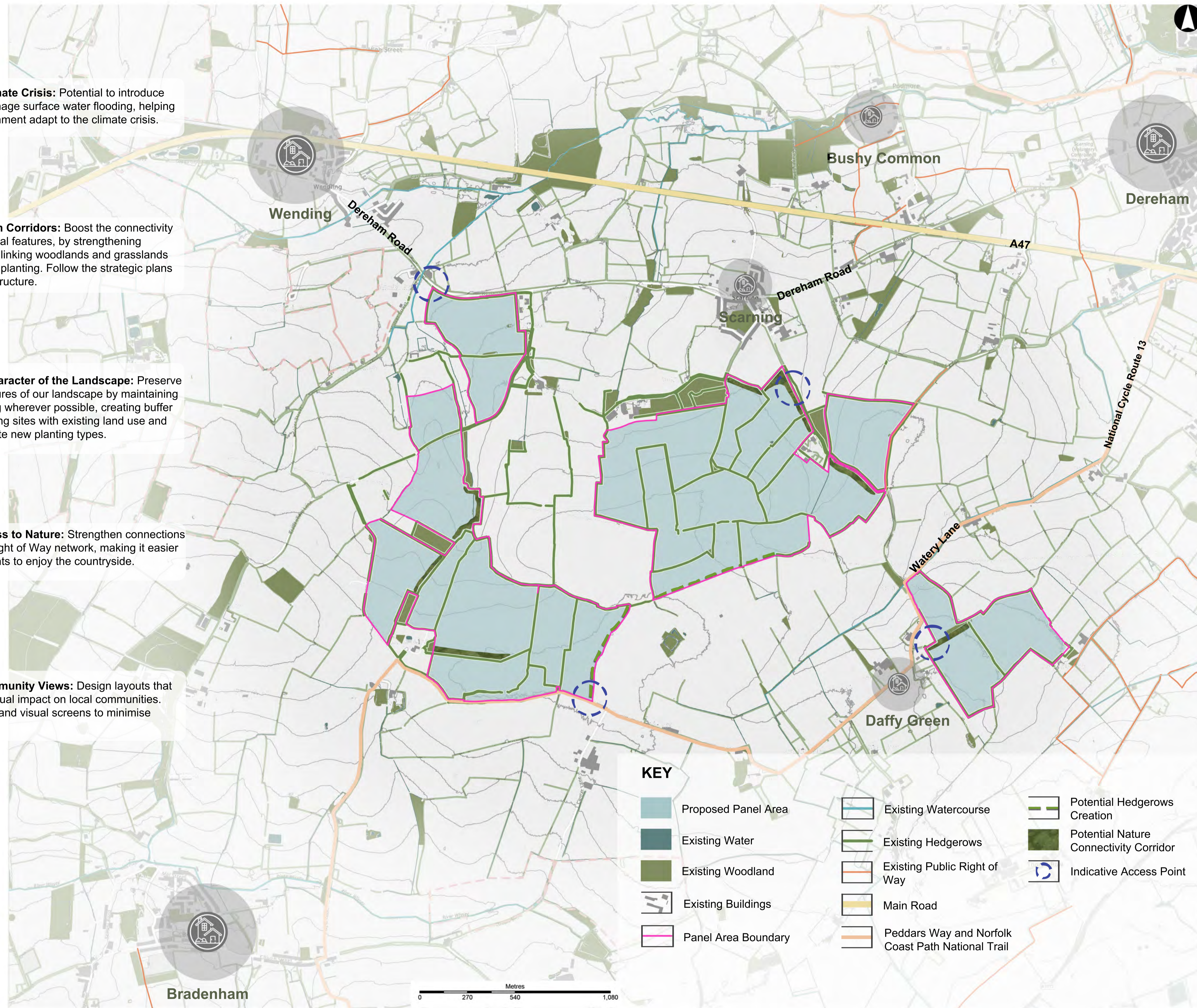
4

**Improve Access to Nature:** Strengthen connections to the Public Right of Way network, making it easier for local residents to enjoy the countryside.



5

**Prioritise Community Views:** Design layouts that consider the visual impact on local communities. Include buffers and visual screens to minimise disturbance.



**KEY**

- Proposed Panel Area
- Existing Water
- Existing Woodland
- Existing Buildings
- Panel Area Boundary
- Existing Watercourse
- Existing Hedgerows
- Existing Public Right of Way
- Main Road
- Peddars Way and Norfolk Coast Path National Trail
- Potential Hedgerows Creation
- Potential Nature Connectivity Corridor
- Indicative Access Point

Legend  
See figure

Coordinate System: British National Grid  
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Client



Project Name  
**High Grove Solar**

Drawing Title  
**Figure 2.14  
Landscape Concept Plan**  
Sheet 4 of 5

Scale at A1  
**1:30,000**  
Role  
**Scoping Report**  
Suitability  
**Issued**  
Project Number  
**300883-00**  
Drawing Number  
**HGS-SR02-00014**

Rev  
**P01**





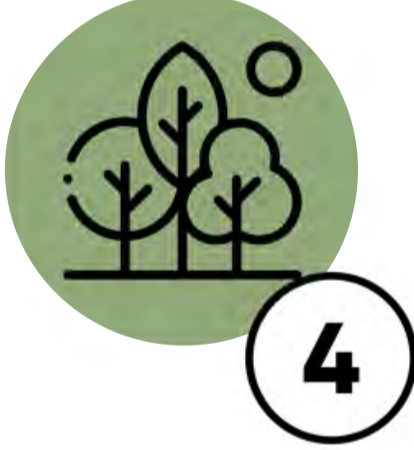
**1 Improve Access to Nature:** Strengthen connections to Ashill Common and the local Public Right of Way network, making it easier for local residents to enjoy the countryside.



**2 Enhance Green Corridors:** Boost the connectivity of existing natural features, like the woodland along the historic rail corridor, by strengthening hedgerows and linking woodlands and grasslands with new native planting. Follow the strategic plans for green infrastructure.



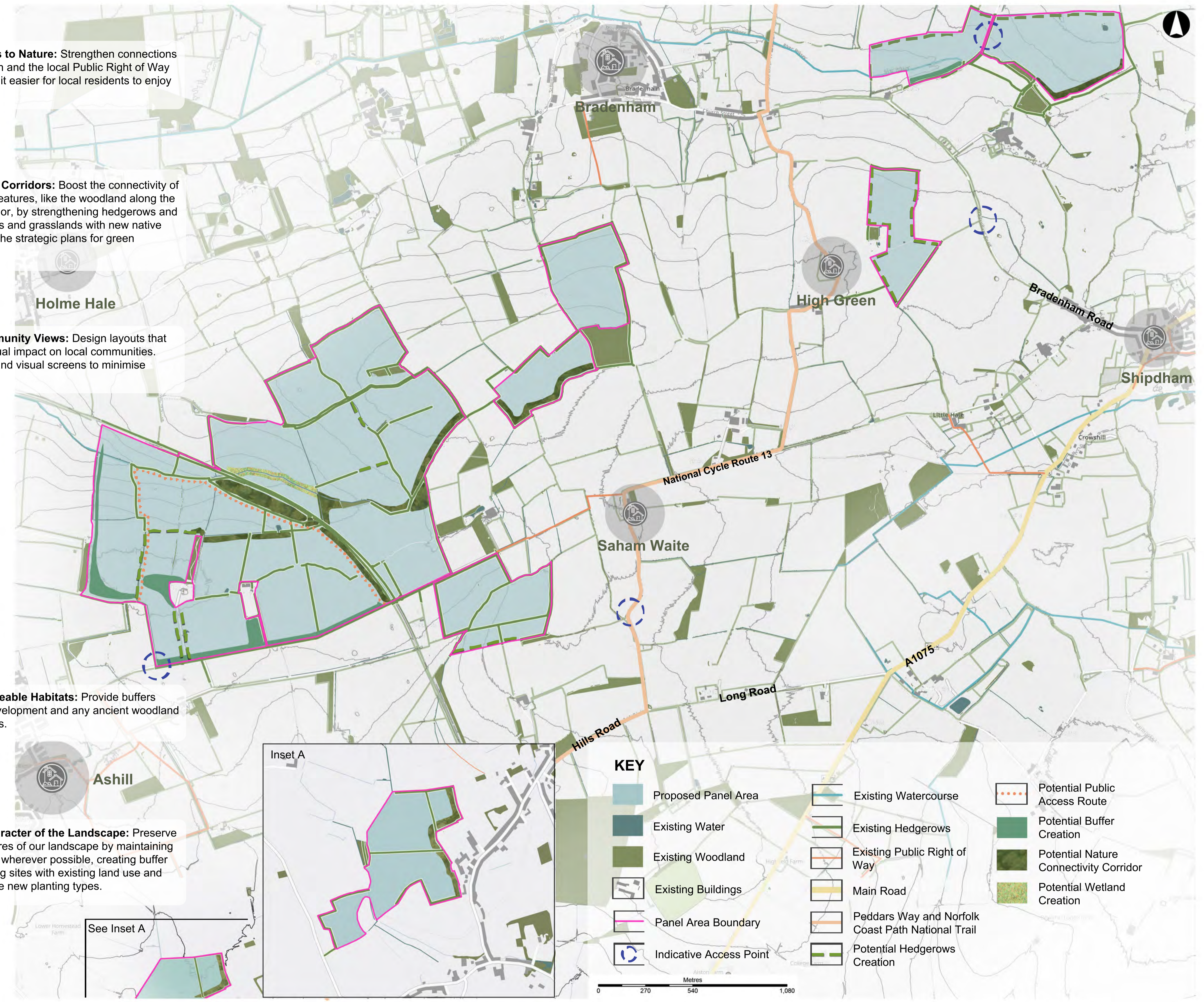
**3 Prioritise Community Views:** Design layouts that consider the visual impact on local communities. Include buffers and visual screens to minimise disturbance.



**4 Protect Irreplaceable Habitats:** Provide buffers between any development and any ancient woodland and veteran trees.



**5 Protect the Character of the Landscape:** Preserve the unique features of our landscape by maintaining existing planting wherever possible, creating buffer zones, integrating sites with existing land use and using appropriate new planting types.



**KEY**

- Proposed Panel Area
- Existing Water
- Existing Woodland
- Existing Buildings
- Panel Area Boundary
- Indicative Access Point
- Existing Watercourse
- Existing Hedgerows
- Existing Public Right of Way
- Main Road
- Peddars Way and Norfolk Coast Path National Trail
- Potential Hedgerows Creation
- Potential Public Access Route
- Potential Buffer Creation
- Potential Nature Connectivity Corridor
- Potential Wetland Creation

