

EAST STOUR SOLAR FARM

Environmental Statement Volume 3 - Figures

PREPARED ON BEHALF OF



APRIL 2022



EAST STOUR SOLAR FARM - ENVIRONMENTAL STATEMENT VOLUME 3 - FIGURES

PREFACE

This Figures Volume forms the third volume of a four volume Environmental Statement which describes the findings of the Environmental Impact Assessment (EIA) of the proposed Bloy’s Grove Solar Farm. The volumes of the complete document are:

Document	Title	Contents
Volume 1	Non-Technical Summary	Summarises the proposal and the key conclusions of the EIA for the non-technical reader
Volume 2A	Written Statement	Presents the full assessments of the EIA
Volume 2B	Appendices	Presents the appendices referred to in the Written Statement
Volume 3	Figures	Presents the figures referred to in the Written Statement
Volume 4	Visualisations	Presents the visualisations referred to in the Landscape and Visual Impact Assessment (LVIA) within the Written Statement.

In addition to the Environmental Statement, the developer, EDF Renewables, has submitted a Planning Statement which summarises the planning policy context of the proposal as well as a supporting Socio Economics and Sustainability Statement.

A complete set of application documents can be viewed in person at Ashford Brough Council Offices at Ashford Borough Council, Civic Centre, Tannery Lane, Ashford, Kent TN23 1PL or downloaded from the project website, as detailed in the box below.

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or download from:

https://www.edf-re.uk/renewables/east-stour

The Developer may also be contacted at:

east.stour@edf-re.uk or 0800 0194 576

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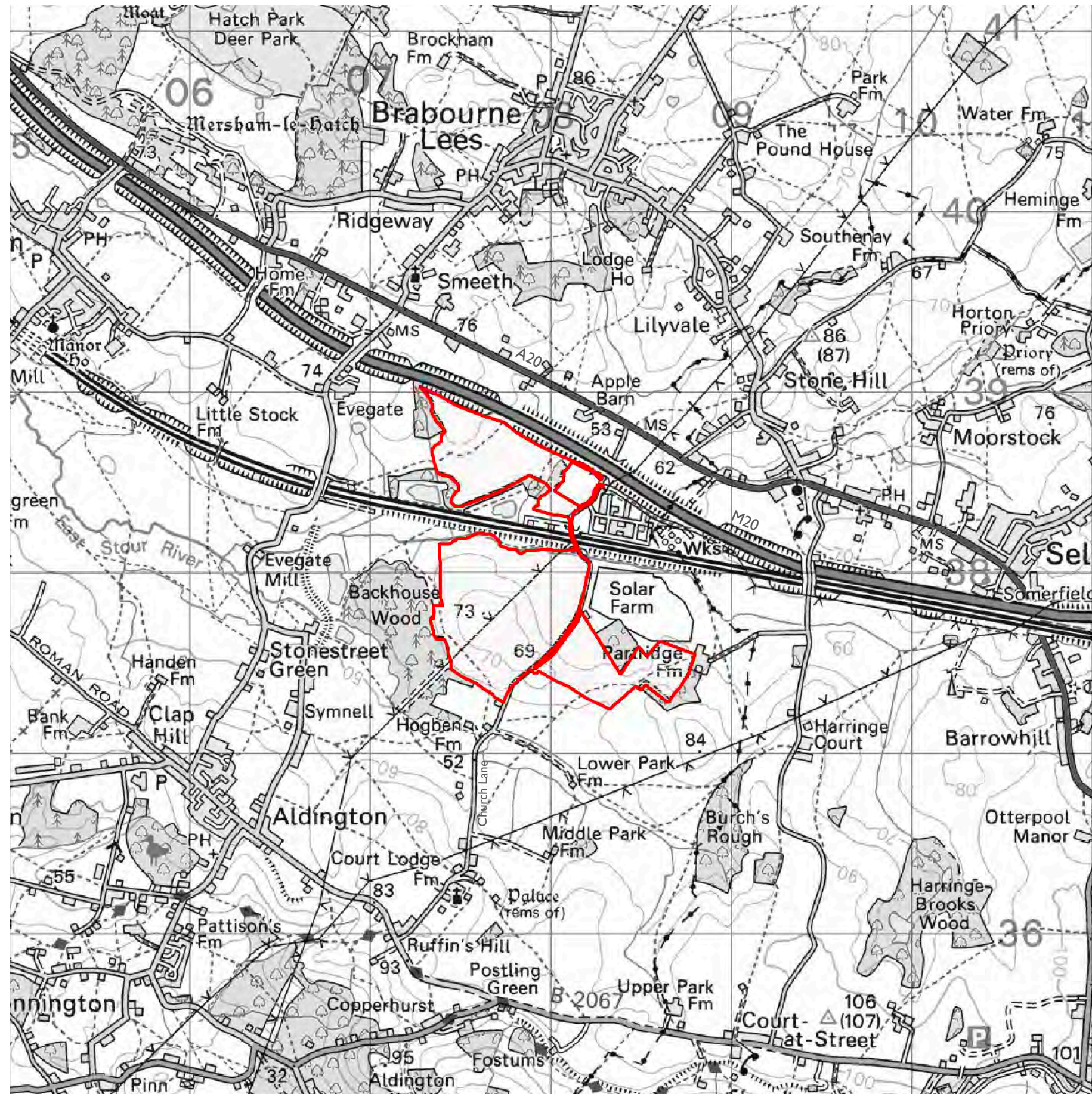
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EAST STOUR SOLAR FARM

Proposed Site Location

Figure 1.1

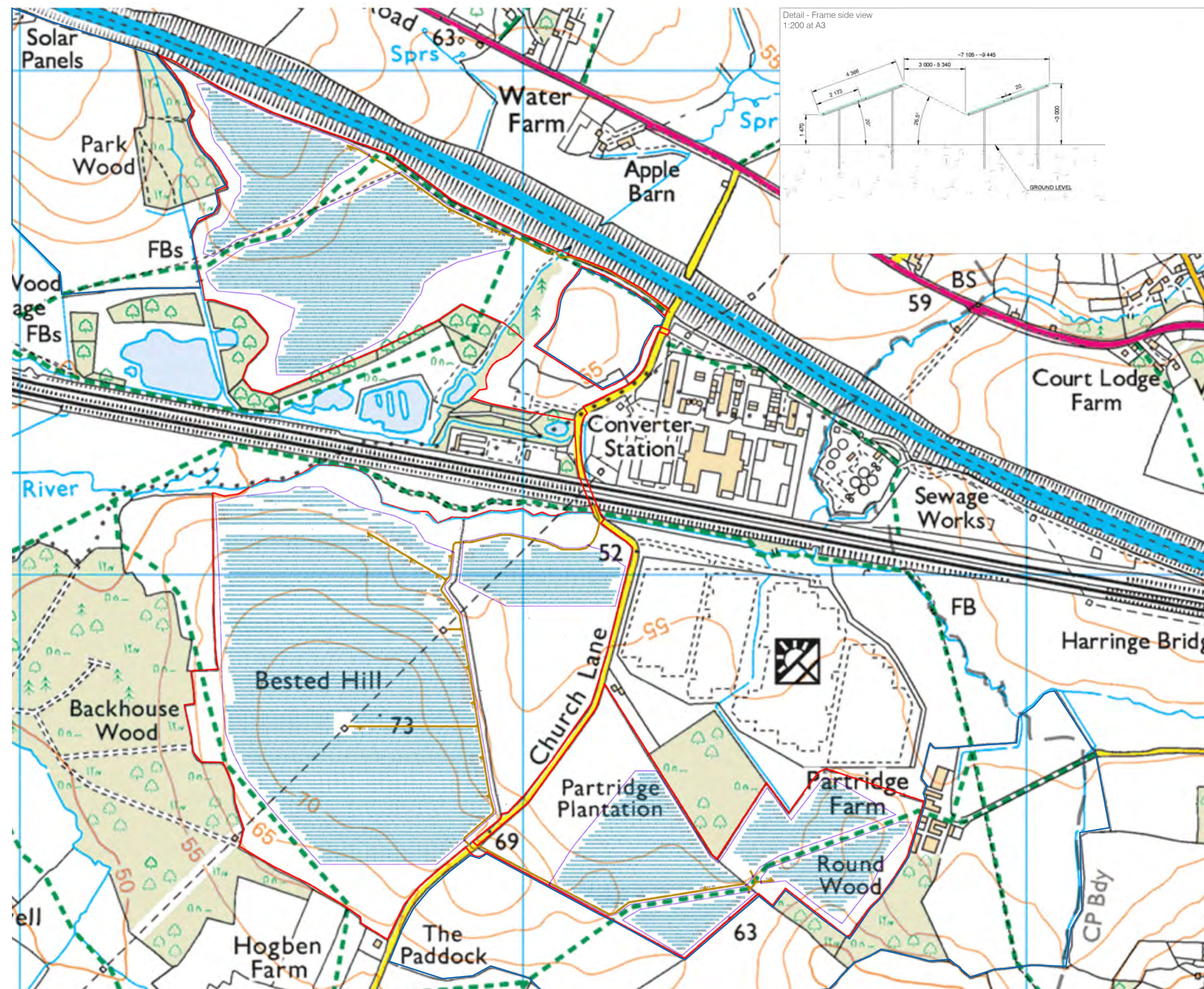
KEY



North



Proposed Development Boundary












EAST STOUR SOLAR FARM

Proposed Site Layout

Figure 1.2

KEY

-  North
-  Solar Development Boundary
-  Immediately adjoining landholding
-  Fence
-  Gate
-  Solar panels on frames
-  New site access track
-  Storage, spares, inverter/transformer unit and substation cabinet
-  Welfare container

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EAST STOUR SOLAR FARM

Proposed Site Layout (Aerial)

Figure 1.3

KEY

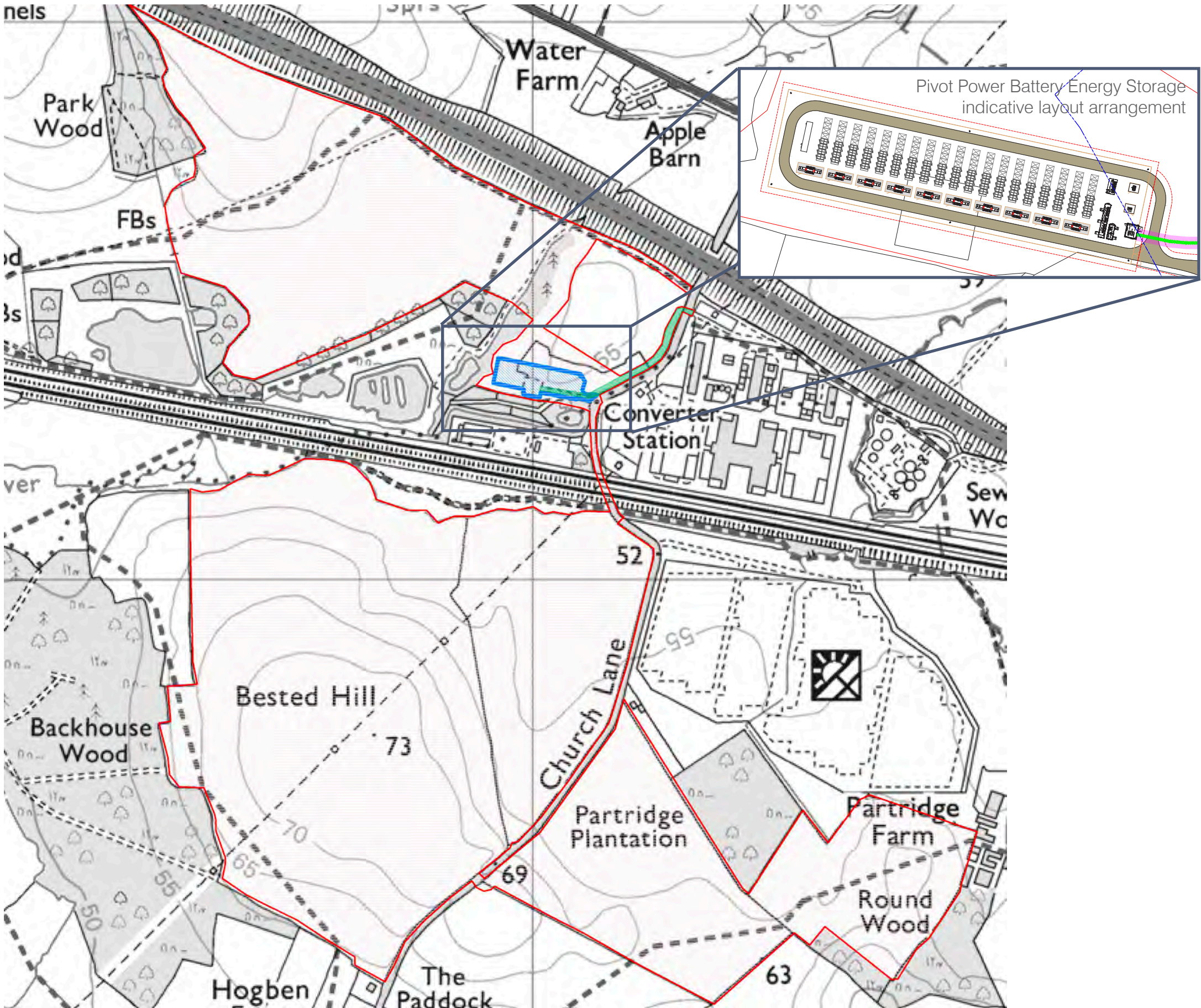
- North
- Solar Development Boundary
- Fence
- Gate
- Solar panels on frames
- New site access track
- Storage, spares, inverter/transformer unit and substation cabinet
- Welfare container

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EAST STOUR SOLAR FARM

Pivot Power Battery Energy Storage Location
Figure 3.1

KEY

- North
- Solar Development boundary
- Indicative Pivot Power Battery Energy Storage boundary
- Indicative shared connection corridor to Sellindge Converter Station Substation
- Inset - Indicative draft layout arrangement, subject to change (not to a scale))

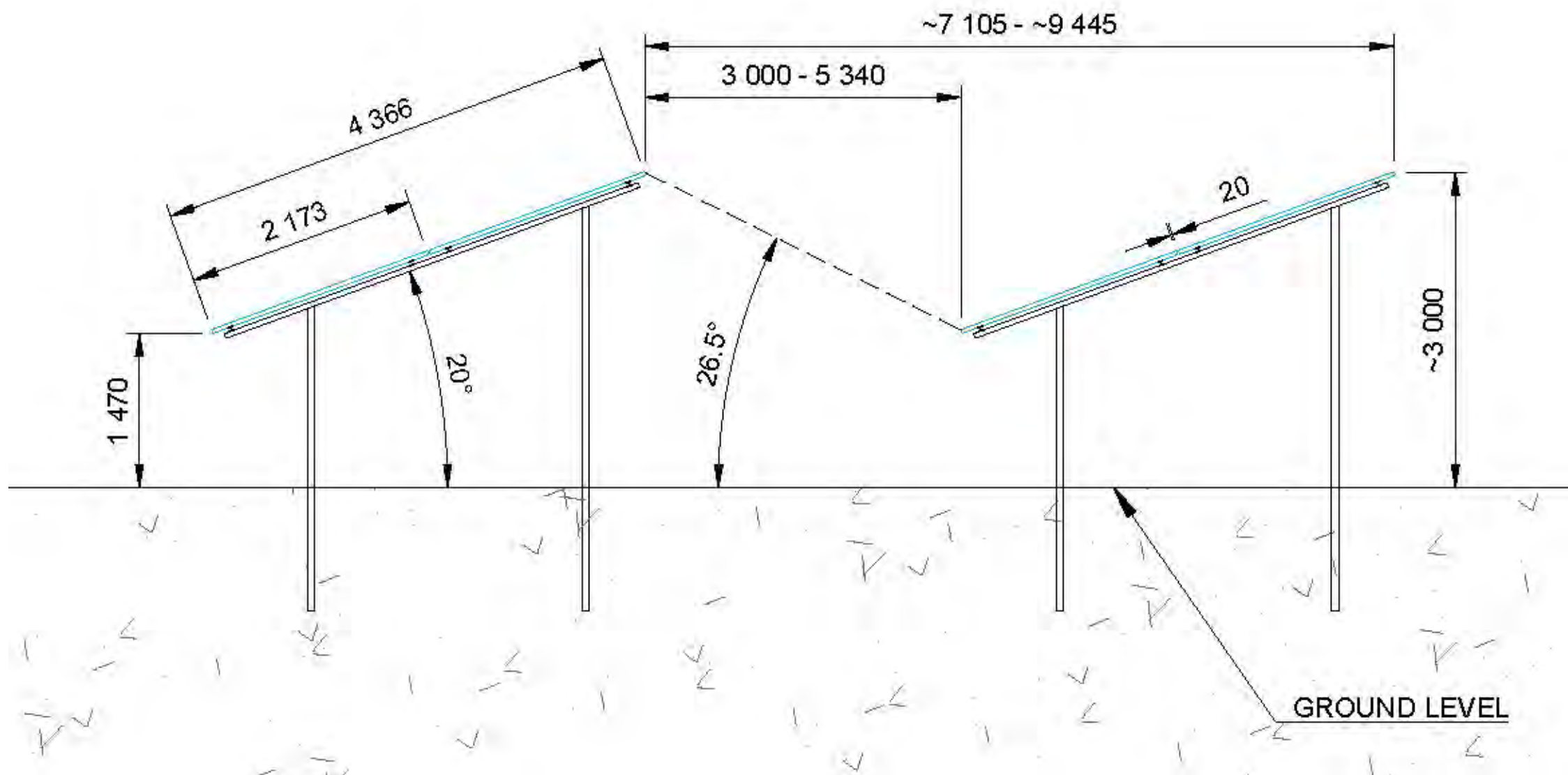
EAST STOUR SOLAR FARM

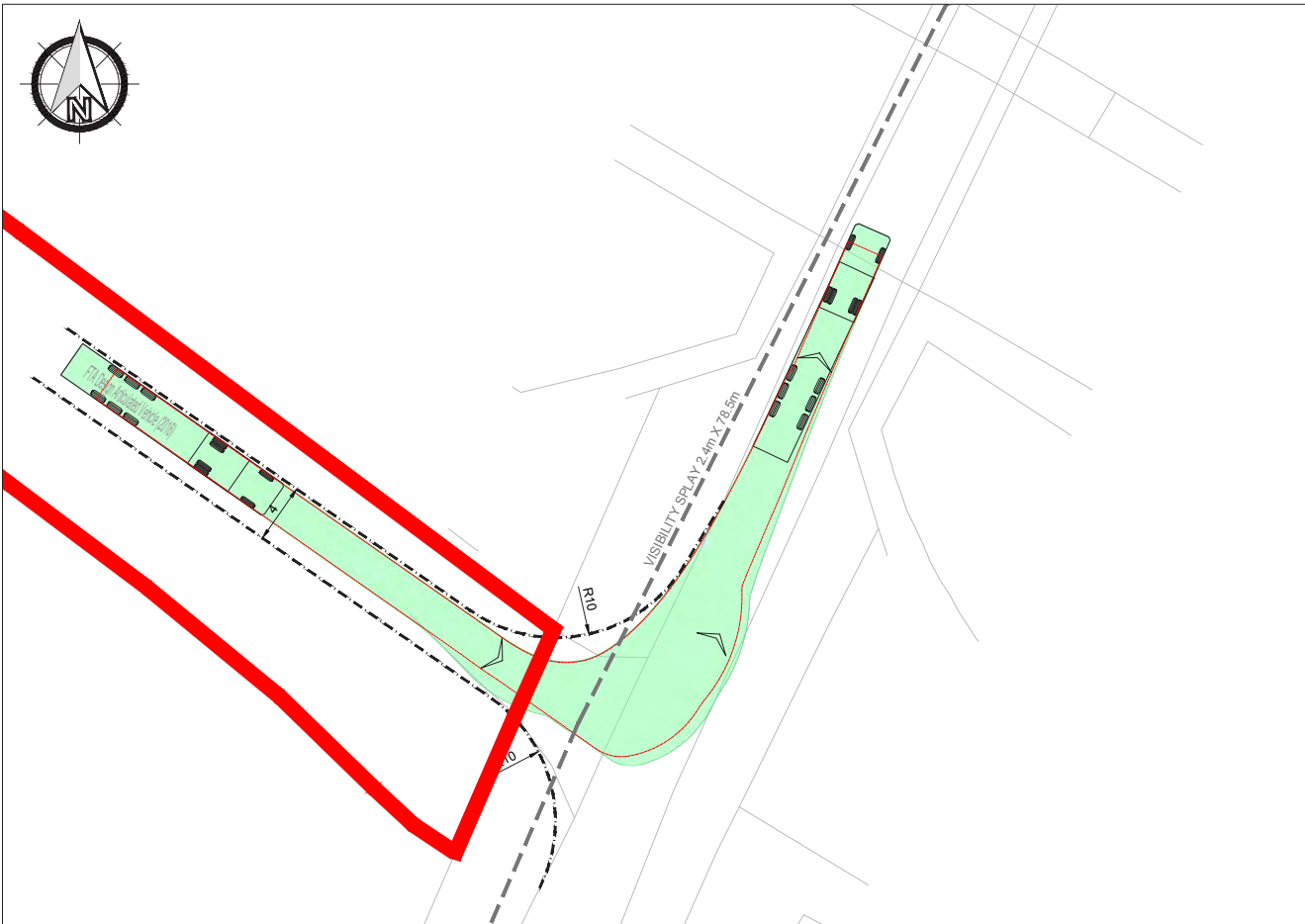
Typical Solar Panel and Frame Elevation

Figure 6.1

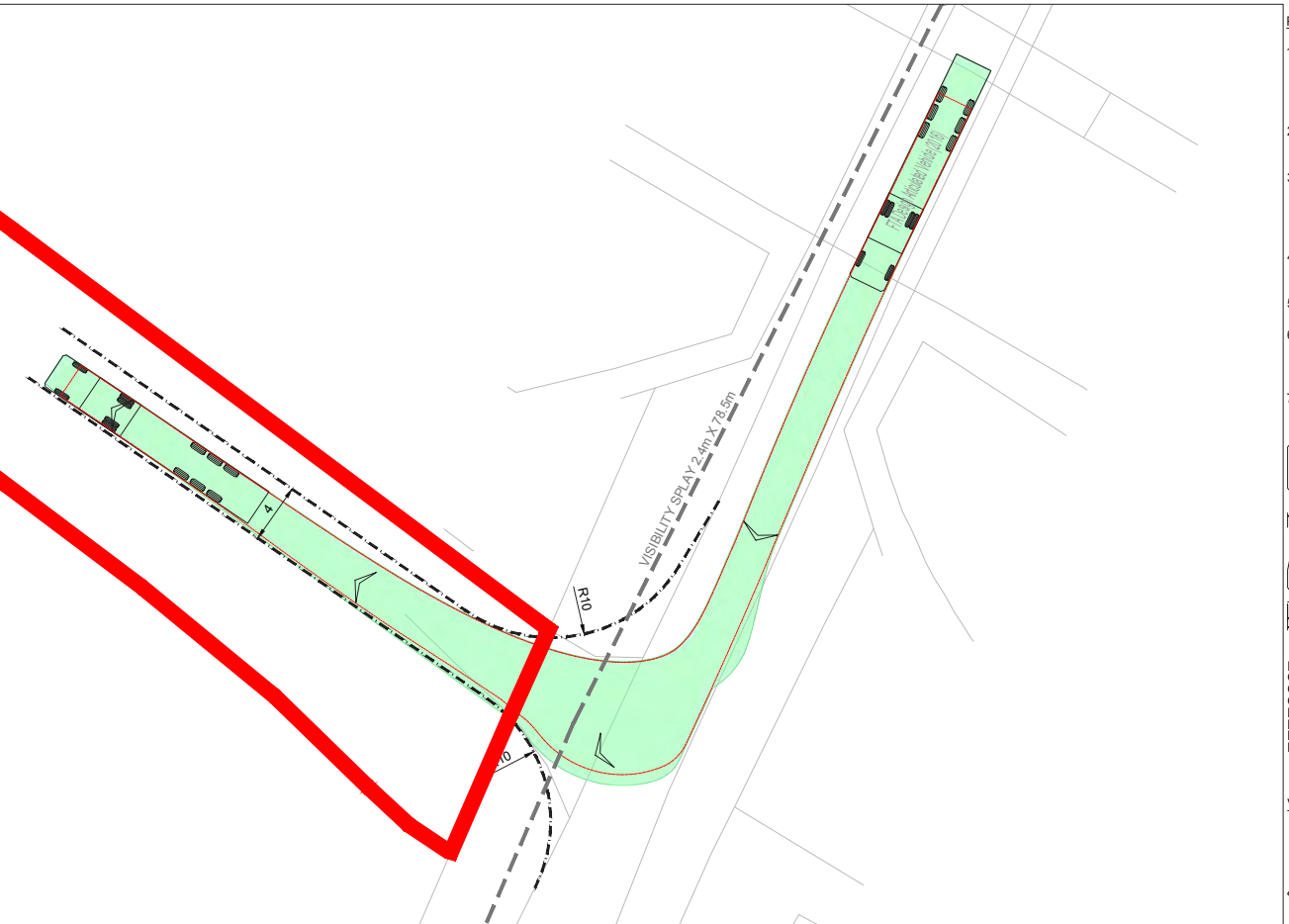
NOTES

- 1 All measurements in millimetres, unless stated otherwise





NORTH LAND PARCEL ENTRANCE - EXITING SITE (articulated vehicle)

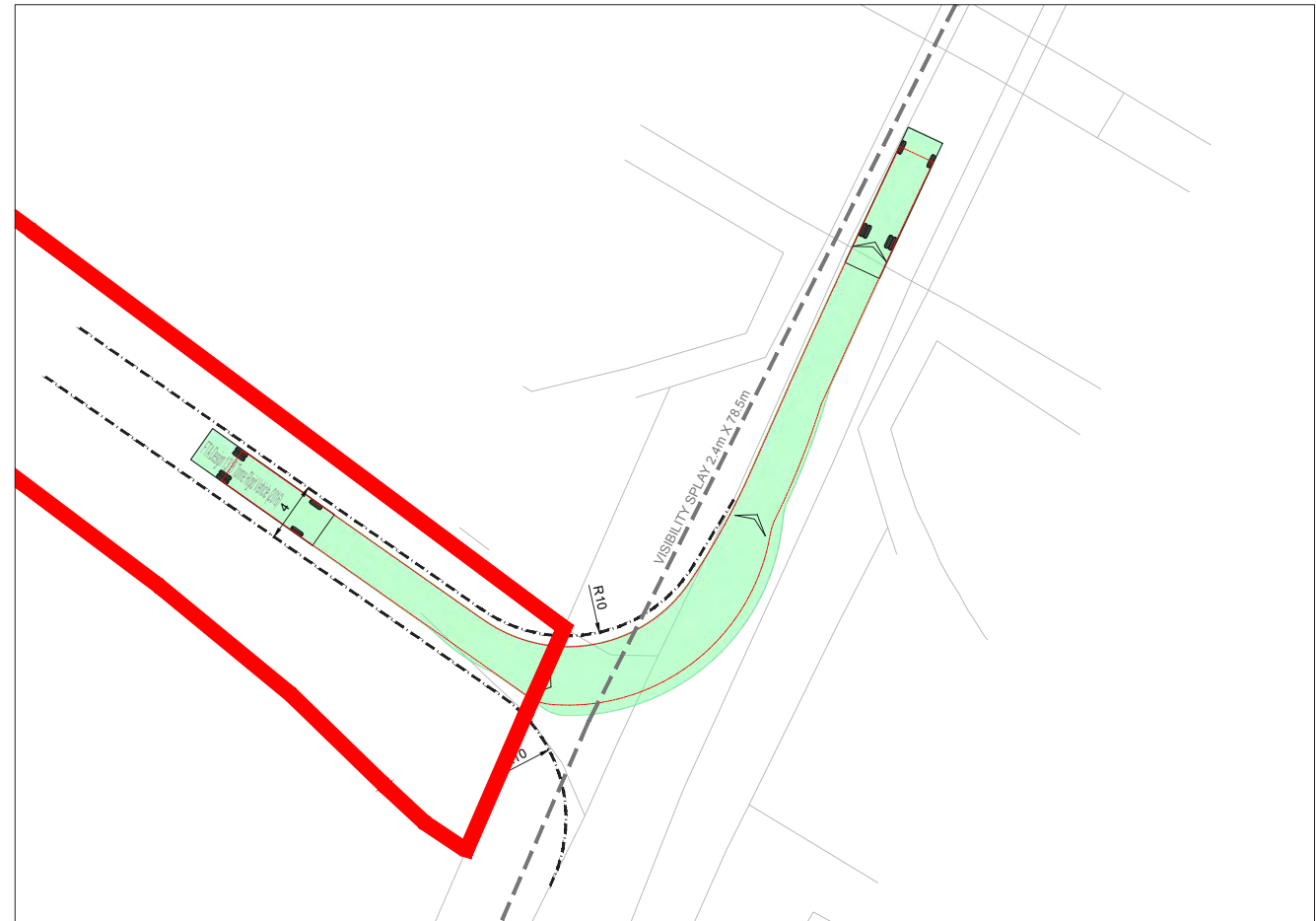
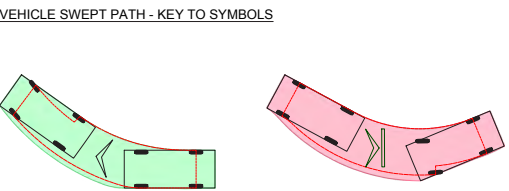


NORTH LAND PARCEL ENTRANCE - ENTERING SITE (articulated vehicle)

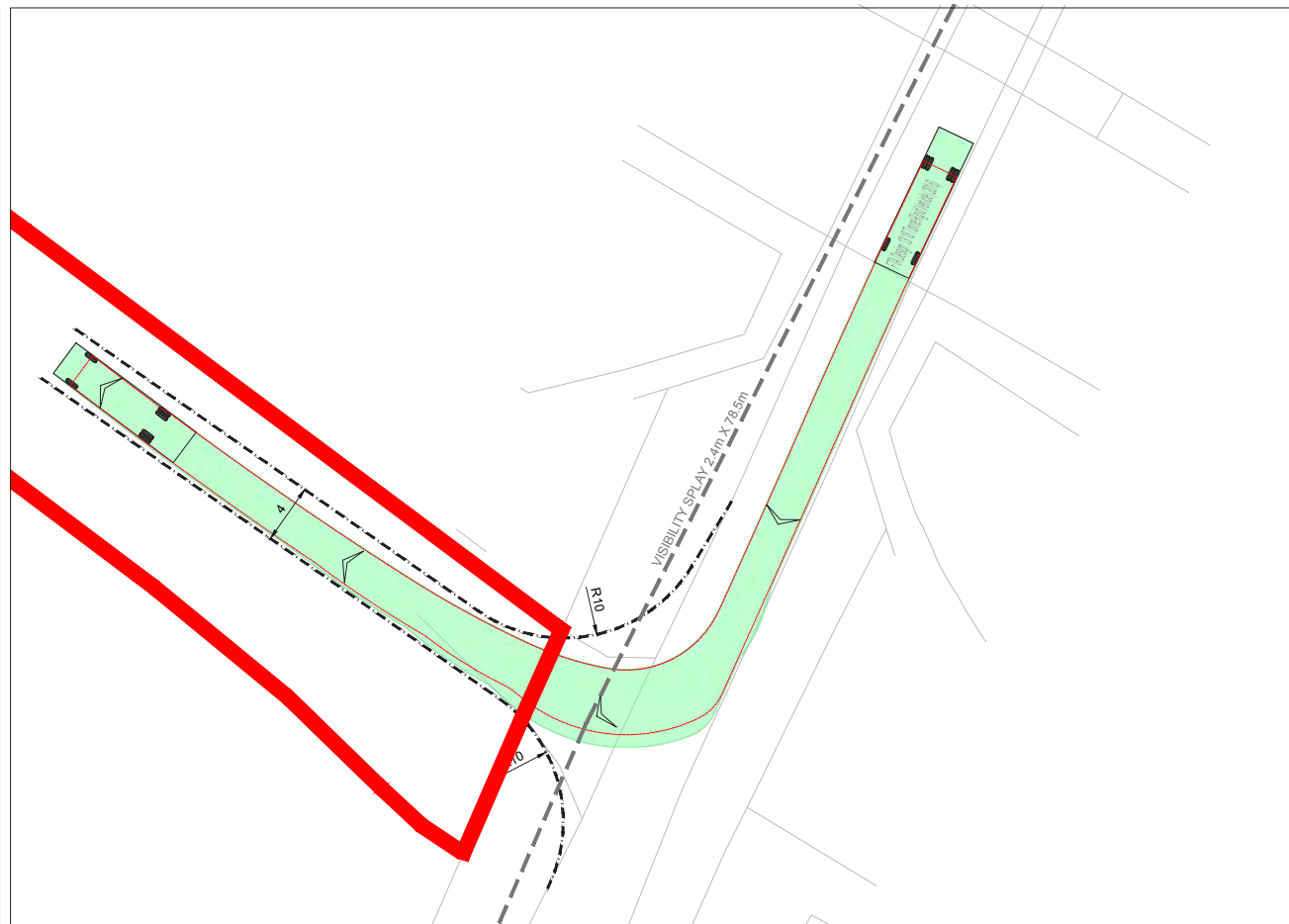
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FTA Design Articulated Vehicle (2016)	
Overall Length	16.48m
Overall Width	2.55m
Overall Body Height	3.87m
Min Body Ground Clearance	0.515m
Max Track Width	2.47m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	6.60m



NORTH LAND PARCEL ENTRANCE - EXITING SITE (rigid vehicle)



NORTH LAND PARCEL ENTRANCE - ENTERING SITE (rigid vehicle)

VEHICLE MOVING FORWARD
BODY OUTLINE - GREEN SHADING
WHEEL TRACK - RED DOTTED LINE

VEHICLE MOVING IN REVERSE
BODY OUTLINE - RED SHADING
WHEEL TRACK - RED DOTTED LINE

LEGEND

- PROPOSED HB2 KERB
- DETRA FENCING
- SITE BOUNDARY

Figure 6.2 a)
Site Entrance -
Northern area
Scale - 1:500 at A3

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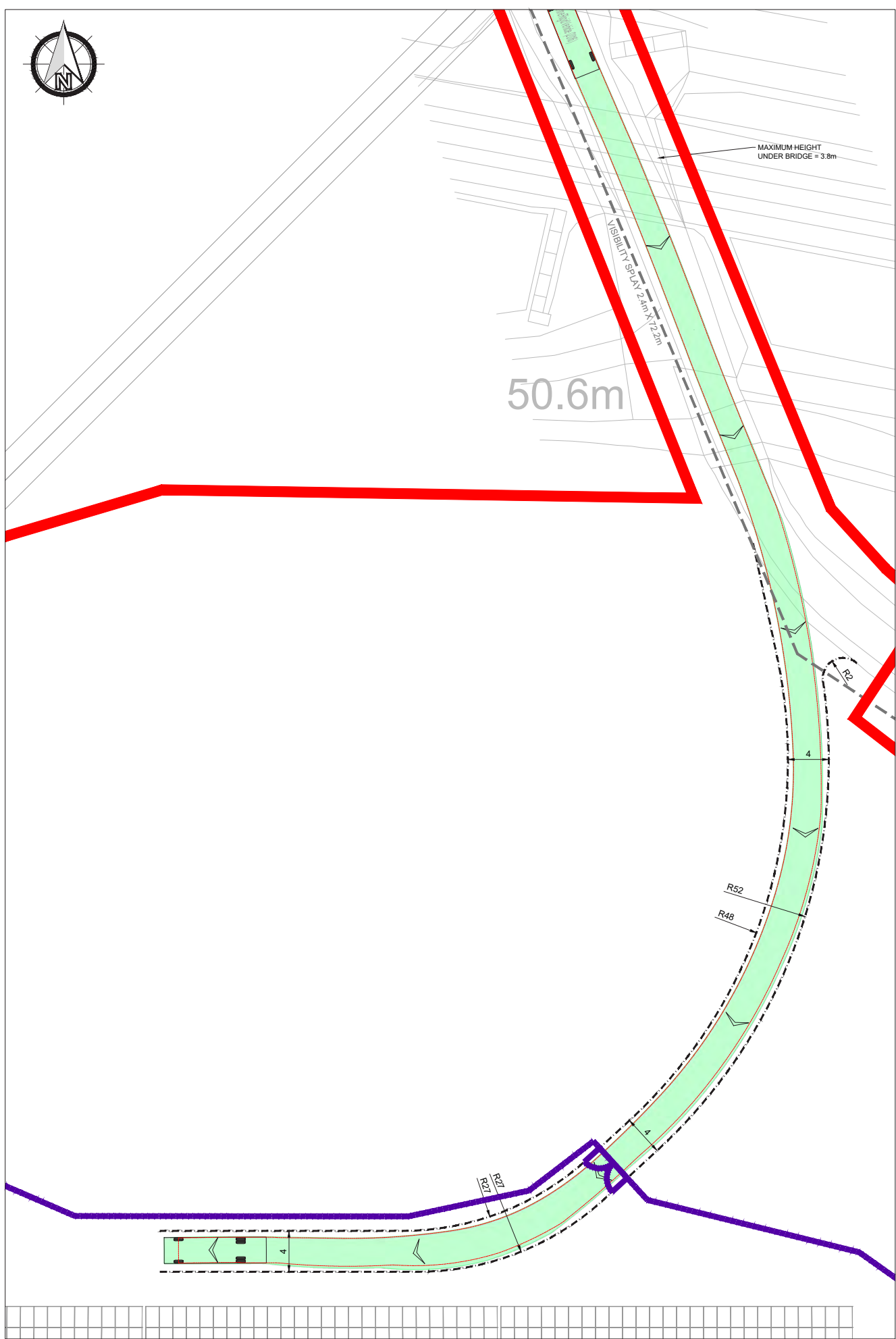


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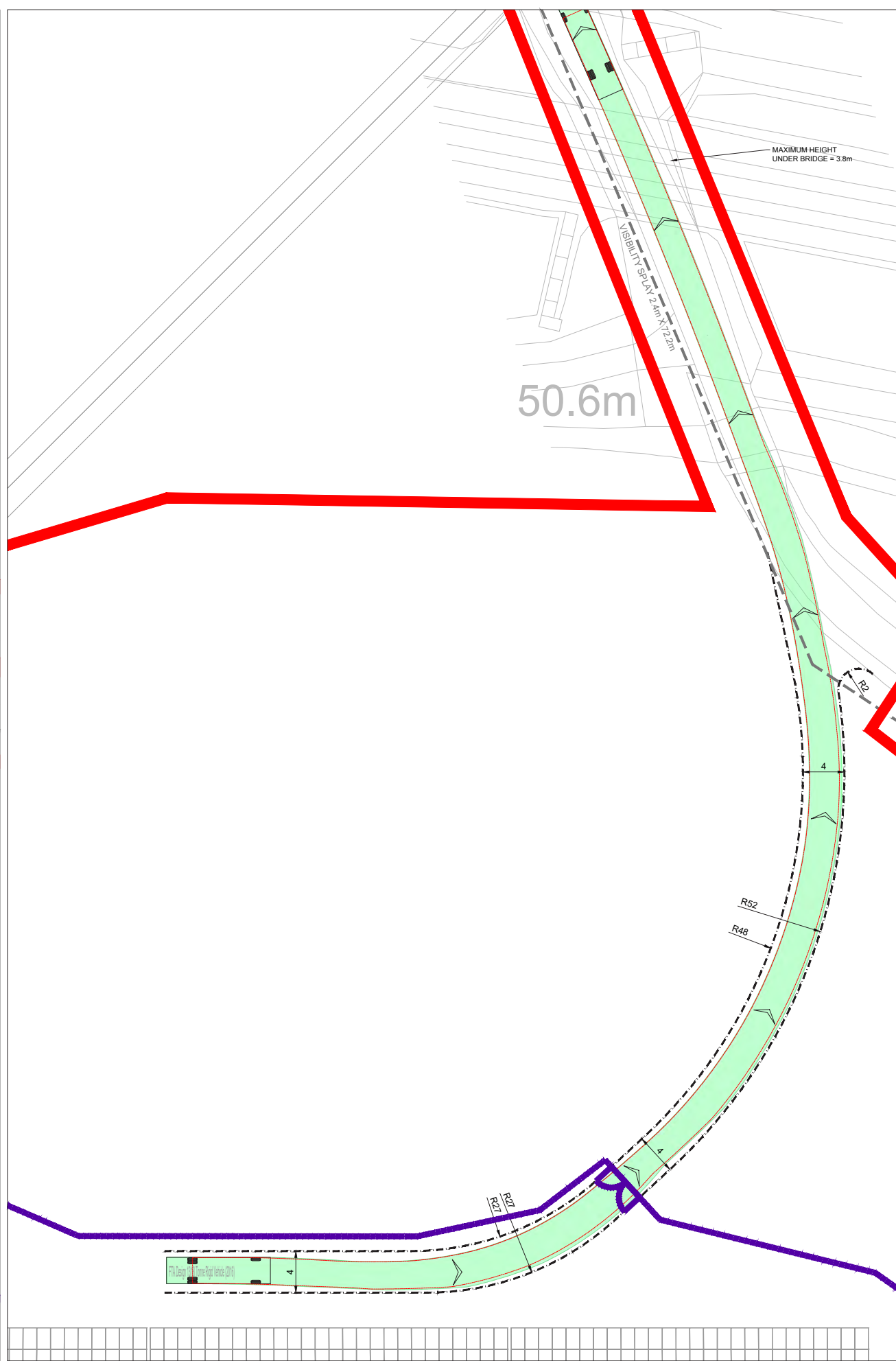
SCALE 1:250m

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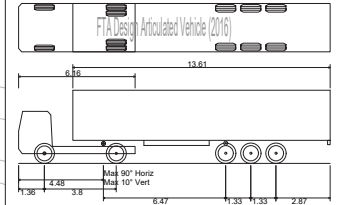
ENTRANCE SOUTH OF RAILWAY LINE - ENTERING



ENTRANCE SOUTH OF RAILWAY LINE - EXITING

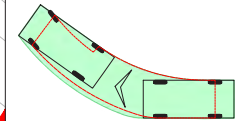
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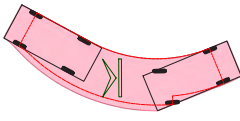


FTA Design Articulated Vehicle (2016)	16.480m
Overall Length	2.550m
Overall Width	3.870m
Overall Body Height	0.515m
Min Body Ground Clearance	2.470m
Max Track Width	3.00s
Lock to lock time	6.600m
Kerb to Kerb Turning Radius	

VEHICLE SWEEP PATH - KEY TO SYMBOLS



VEHICLE MOVING FORWARD
BODY OUTLINE - GREEN SHADING
WHEEL TRACK - RED DOTTED LINE



VEHICLE MOVING IN REVERSE
BODY OUTLINE - RED SHADING
WHEEL TRACK - RED DOTTED LINE

LEGEND

- PROPOSED HB2 KERB
- DETRA FENCING
- SITE BOUNDARY

Figure 6.2 b) i

Site Entrance - Central area (rigid vehicle)

Scale - 1:500 at A3

PREPARED ON BEHALF OF



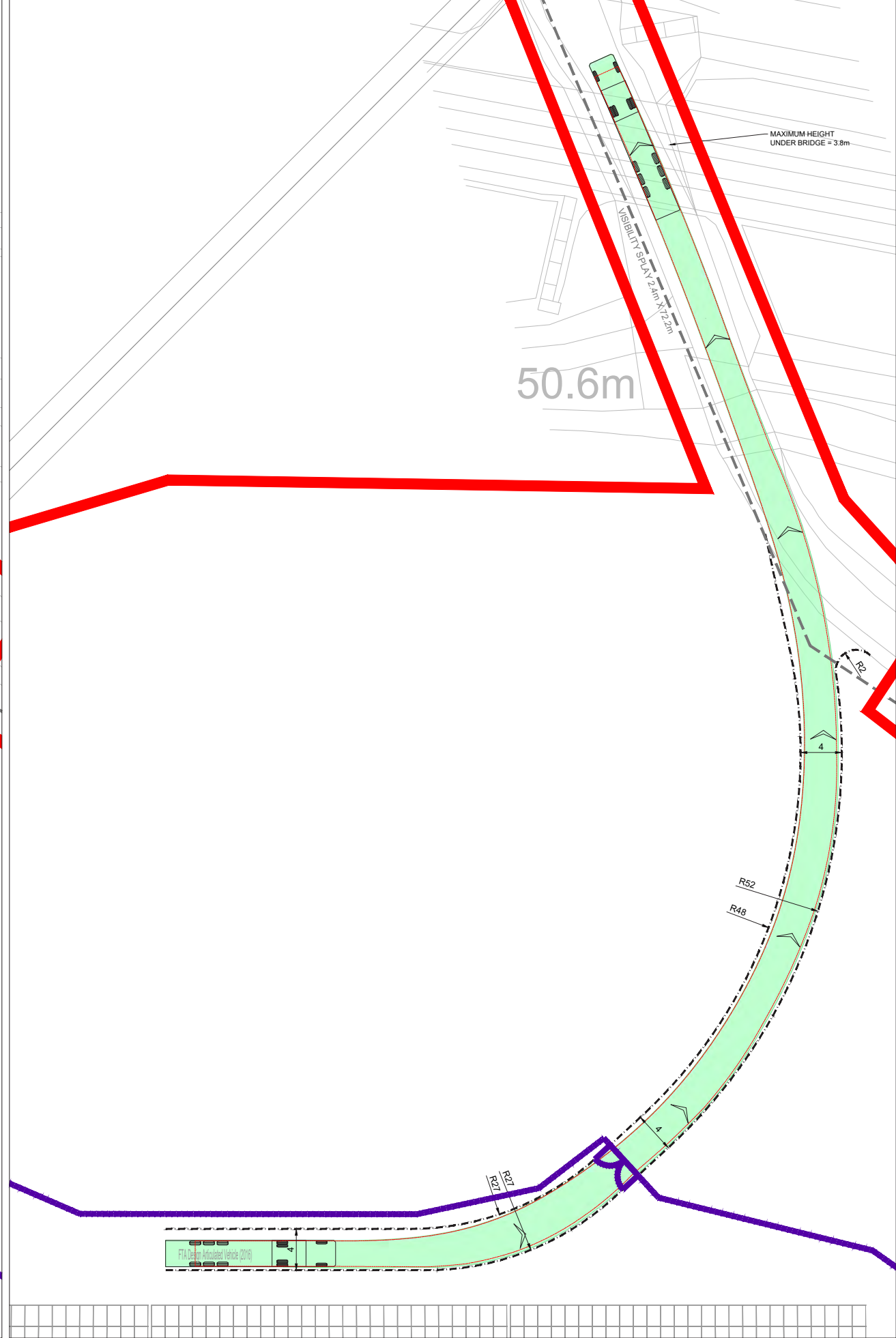
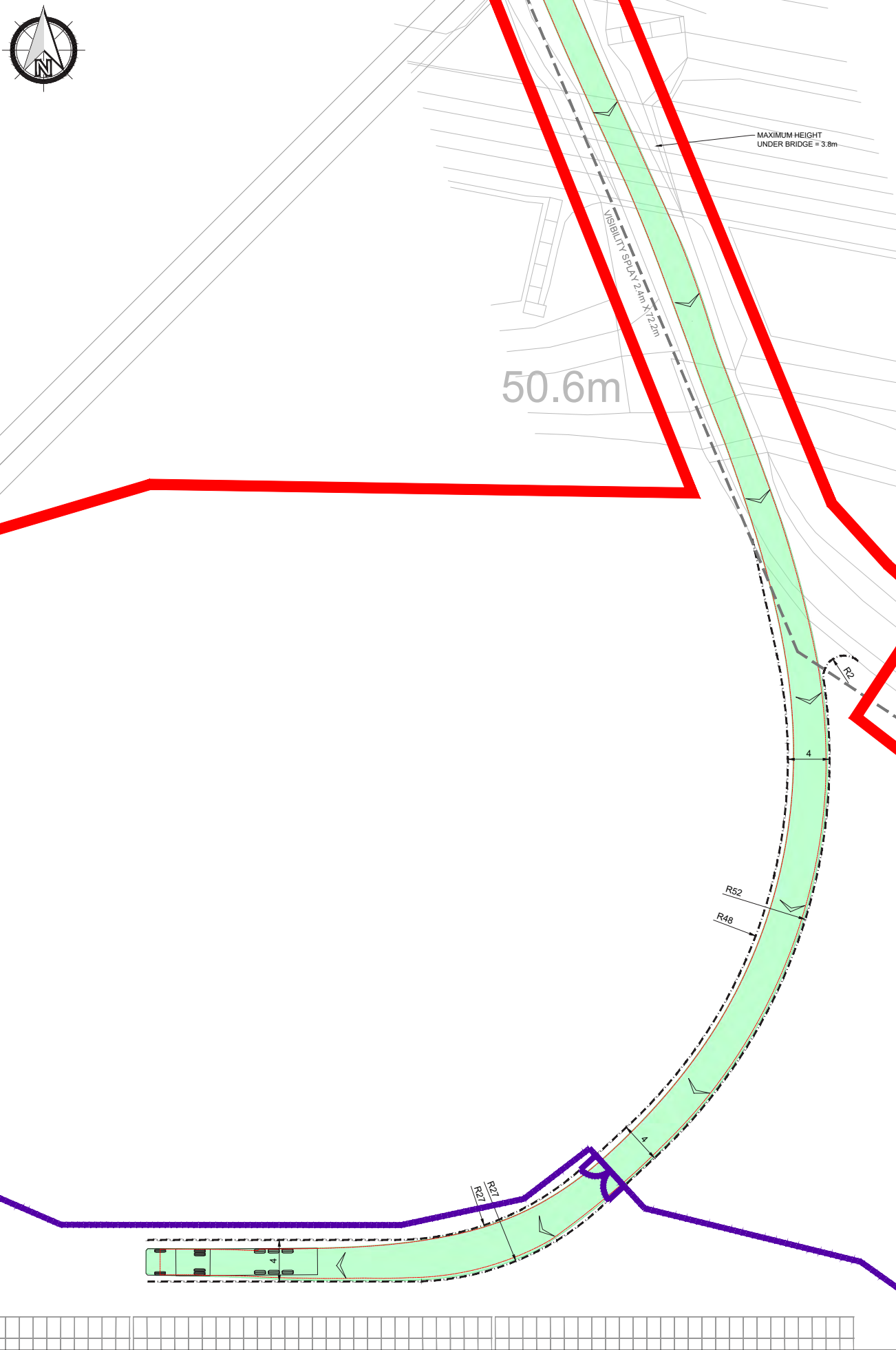
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SCALE 1:250m
0m 5m 10m 15m 20m 25m
SCALE BAR FOR INFORMATION ONLY

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FTA Design Articulated Vehicle (2016)

Overall Length	16.480m
Overall Width	2.550m
Overall Body Height	3.870m
Min Body Ground Clearance	0.515m
Max Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	6.600m

VEHICLE SWEEP PATH - KEY TO SYMBOLS

VEHICLE MOVING FORWARD
BODY OUTLINE - GREEN SHADING
WHEEL TRACK - RED DOTTED LINE

VEHICLE MOVING IN REVERSE
BODY OUTLINE - RED SHADING
WHEEL TRACK - RED DOTTED LINE

LEGEND

- PROPOSED HB2 KERB
- DETRA FENCING
- SITE BOUNDARY

Figure 6.2 b) ii
Site Entrance - Central area (articulated)
Scale - 1:500 at A3

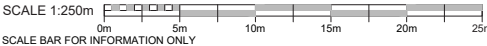
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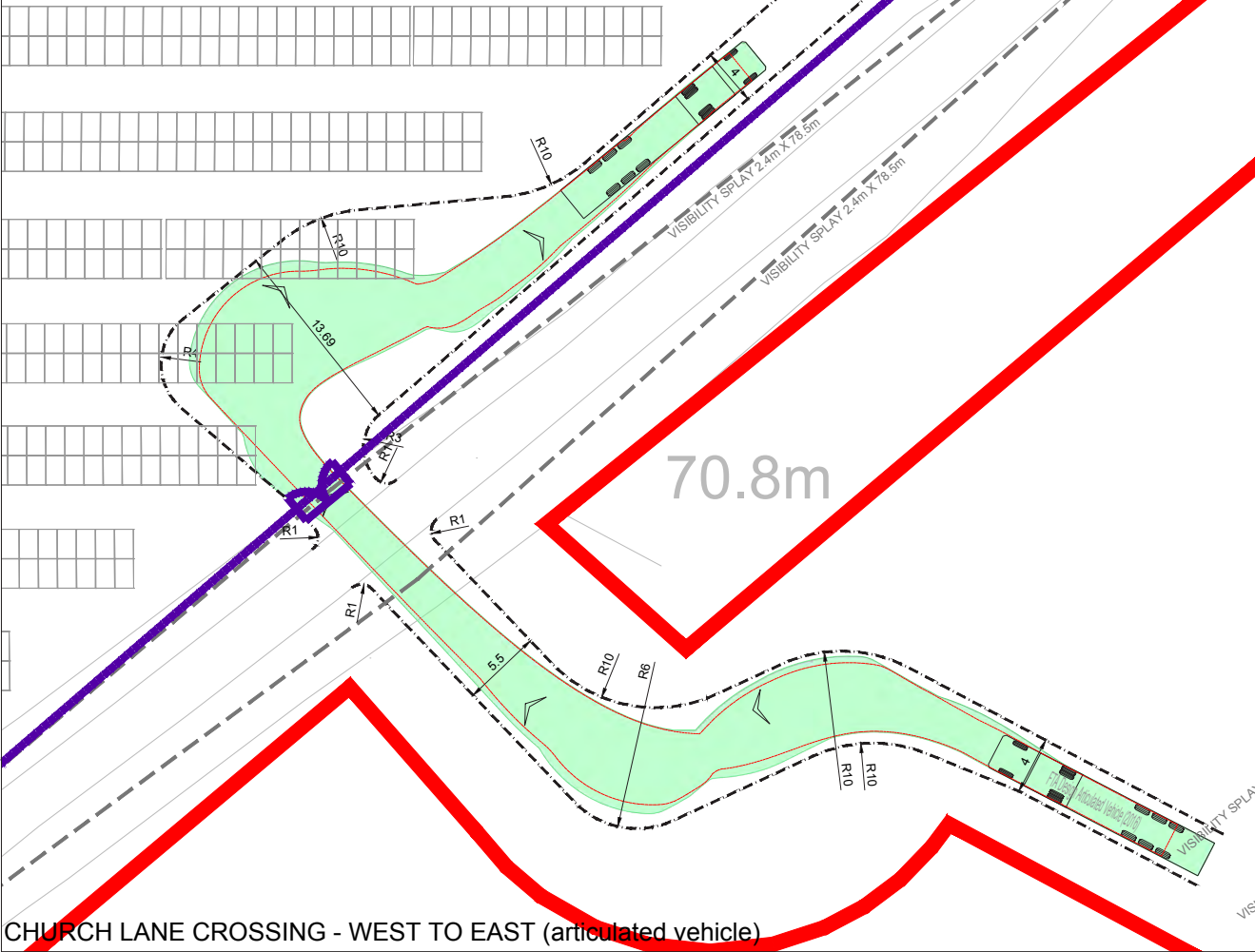
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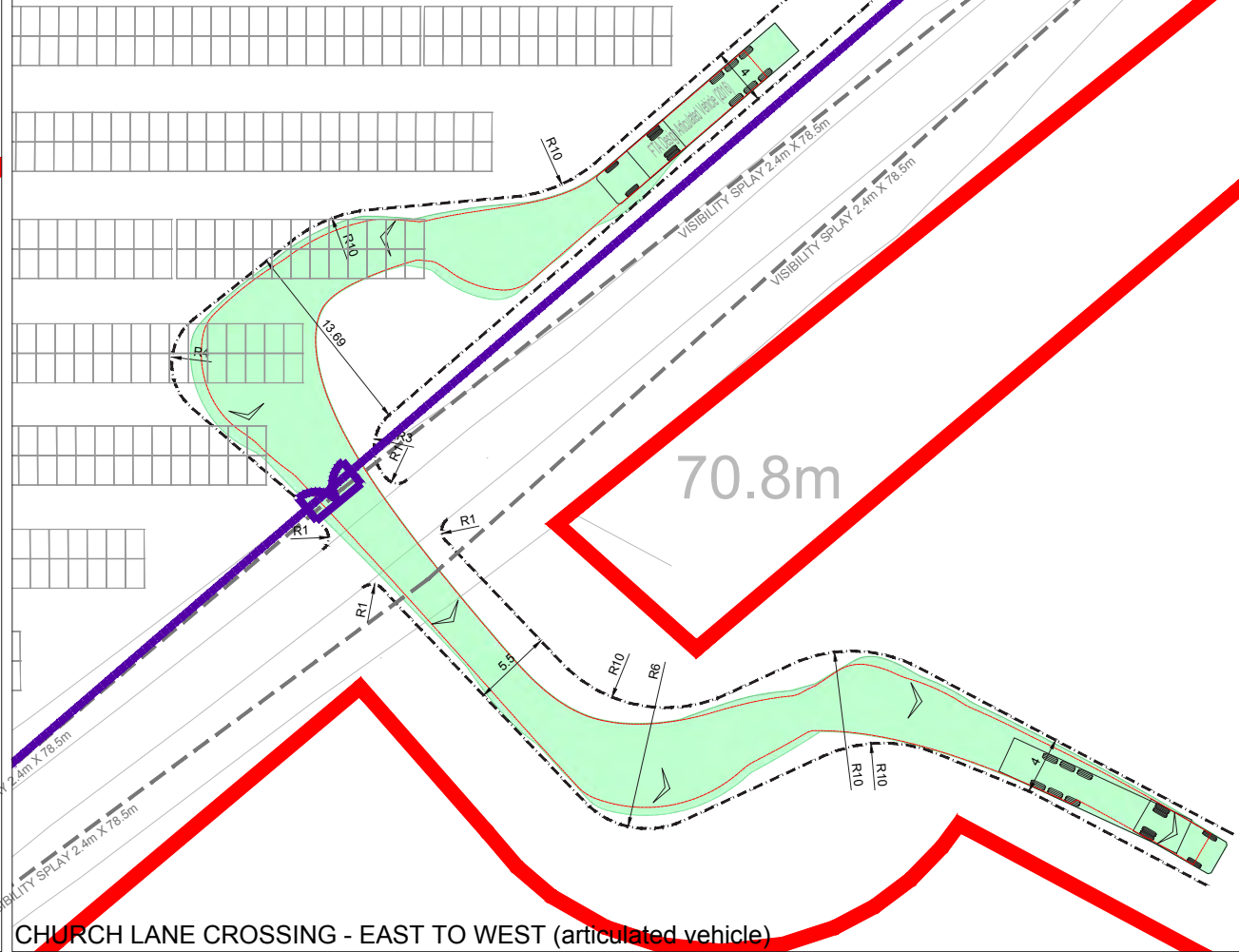
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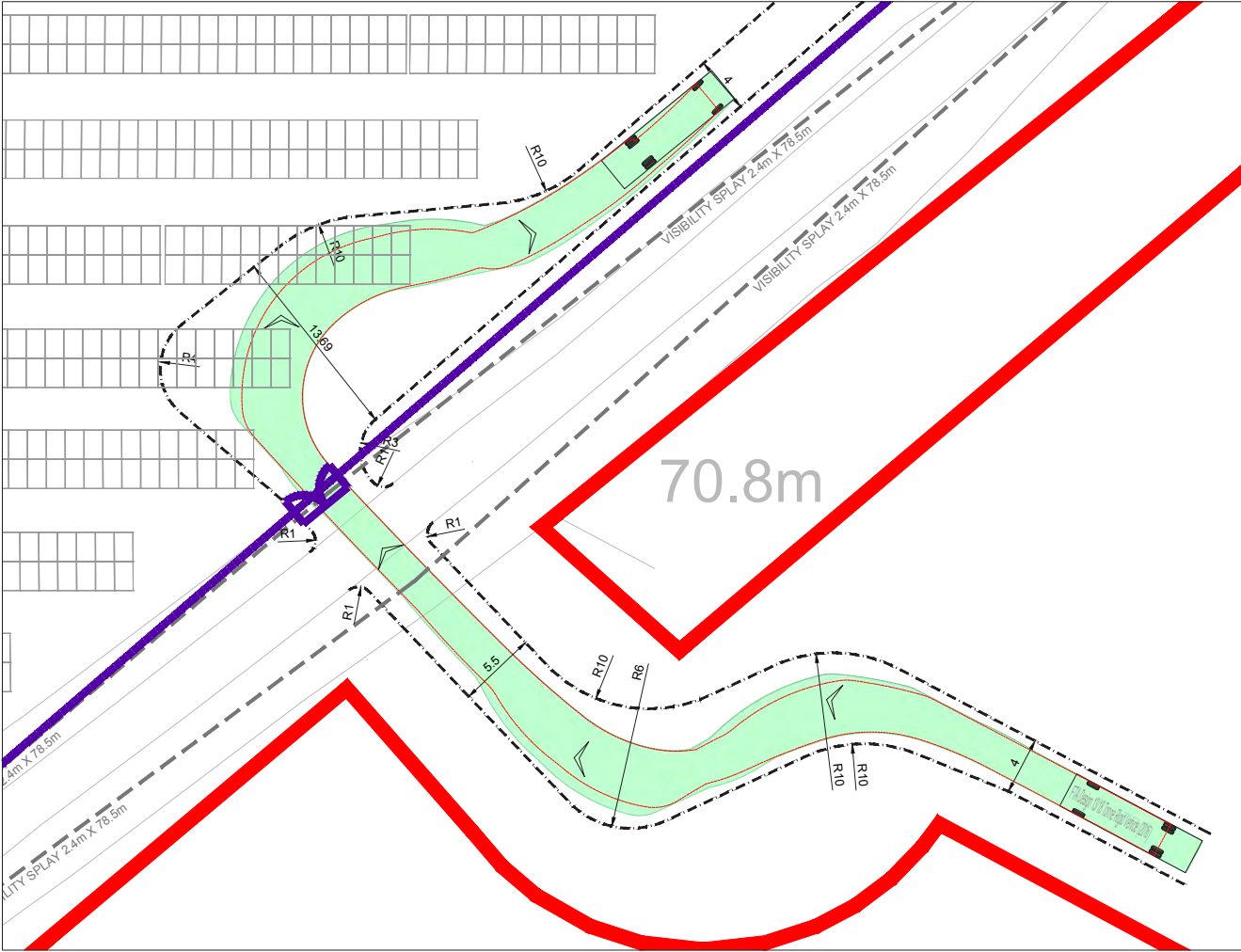
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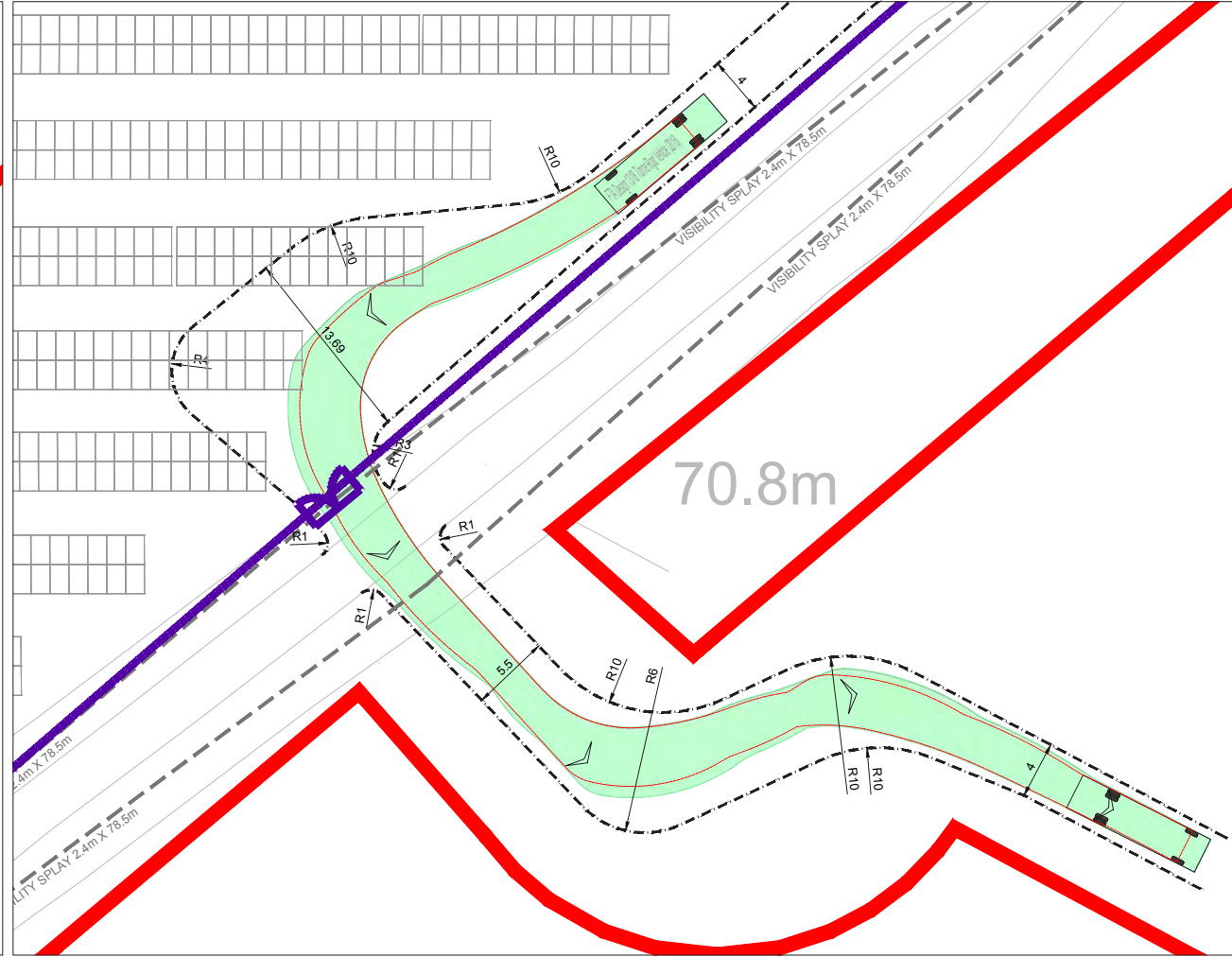
CHURCH LANE CROSSING - WEST TO EAST (articulated vehicle)



CHURCH LANE CROSSING - EAST TO WEST (articulated vehicle)



CHURCH LANE CROSSING - WEST TO EAST (rigid vehicle)



CHURCH LANE CROSSING - EAST TO WEST (rigid vehicle)

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FTA Design 13/18 Tonne Rigid Vehicle (2016)

Overall Length	10.000m
Overall Width	2.550m
Overall Body Height	3.645m
Min Body Ground Clearance	0.440m
Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	11.000m

VEHICLE SWEEP PATH - KEY TO SYMBOLS

VEHICLE MOVING FORWARD
BODY OUTLINE - GREEN SHADING
WHEEL TRACK - RED DOTTED LINE

VEHICLE MOVING IN REVERSE
BODY OUTLINE - RED SHADING
WHEEL TRACK - RED DOTTED LINE

LEGEND

- PROPOSED HB2 KERB
- DETRA FENCING
- SITE BOUNDARY

Figure 6.2 c)
Church Lane Crossing
- Eastern area access
Scale - 1:500 at A3

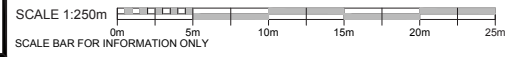
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EAST STOUR SOLAR FARM

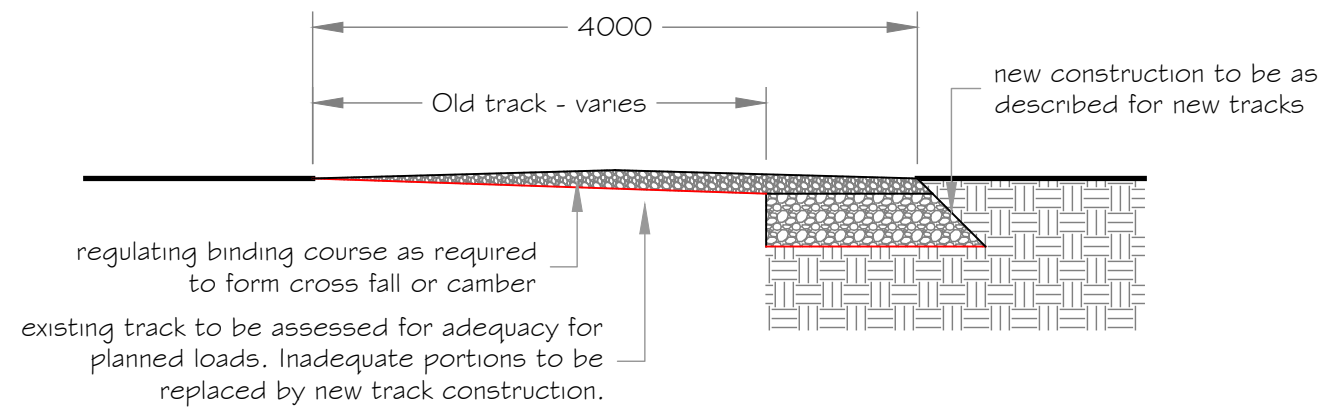
Typical Access Track

Figure 6.3

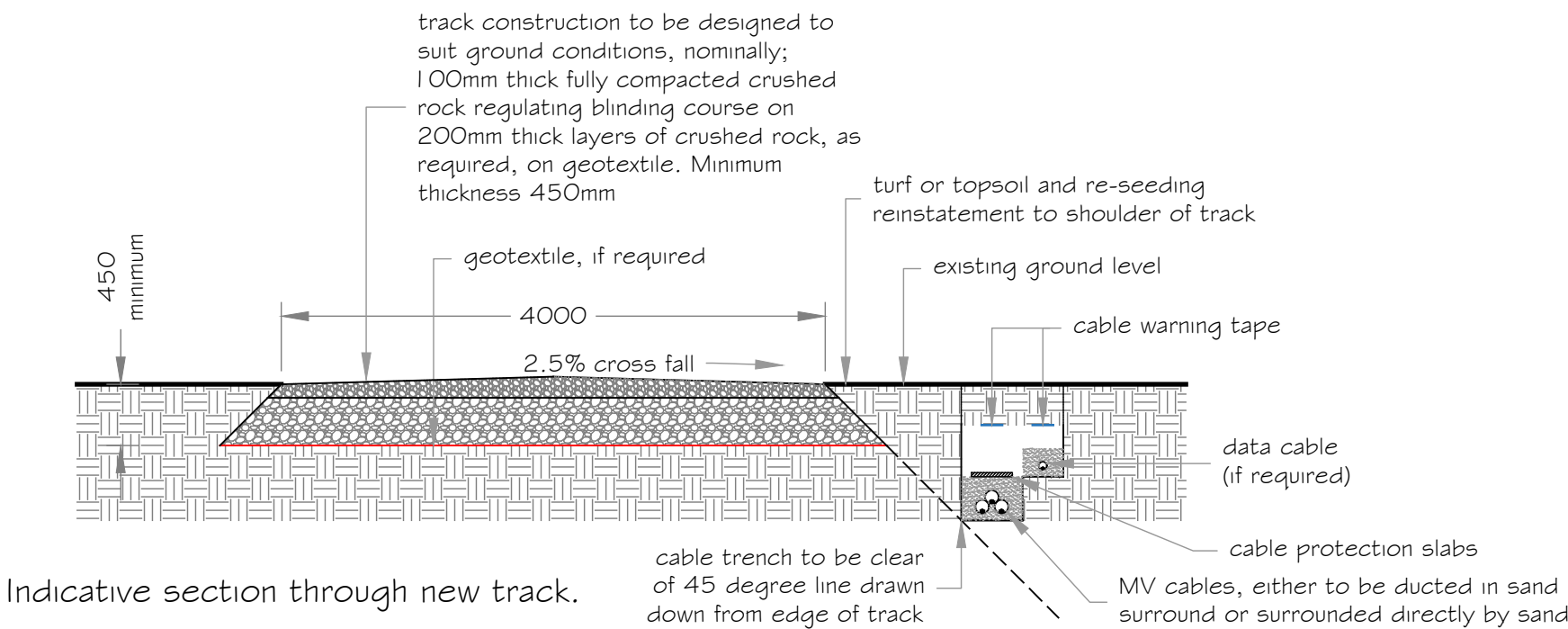
- NOTES
- 1 All measurements in millimetres, unless stated otherwise
 - 2 The thickness of the gravel layer depends on the load-bearing capacity of the subsoil and must be taken from the soil expertise
 - 3 The gravel must be placed in layers and compacted. Information on this and the proctor density to be achieved can also be found in the soil report
 - 4 The required number of ductworks must be determined and can be higher than shown in the drawing



Inset - Typical Access Track Appearance



Indicative section through widened track.



Indicative section through new track.

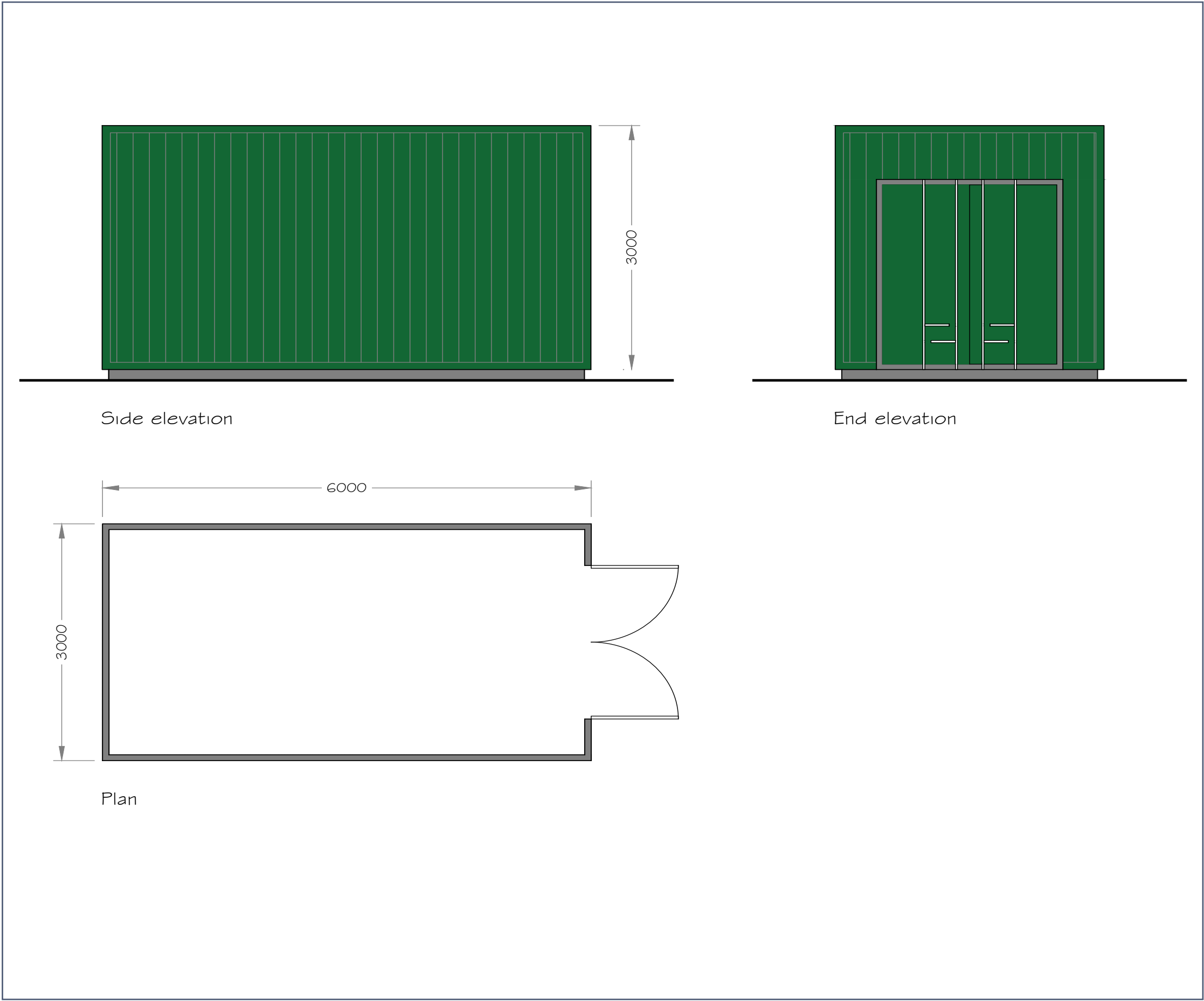
EAST STOUR SOLAR FARM

Typical Site Cabinet Detail

Figure 6.4

NOTES

- 1 All measurements in millimetres, unless stated otherwise
- 2 External finishes to be agreed with the LPA prior to construction
- 3 Built off 150mm high plinth

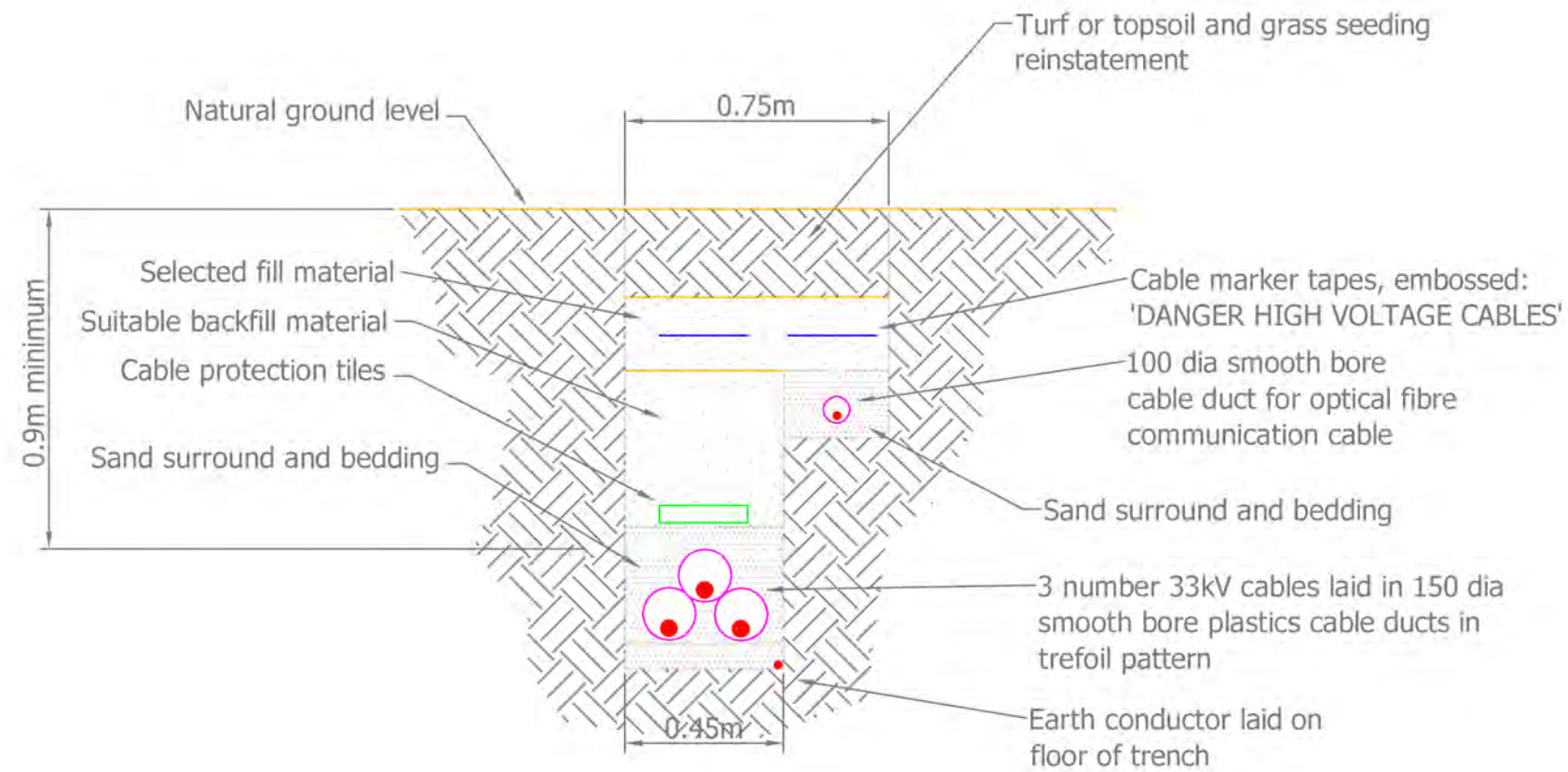


Scale 1:50 at A3

EAST STOUR SOLAR FARM

Typical Cable Trench Detail

Figure 6.5





Inset - Typical Fence Style

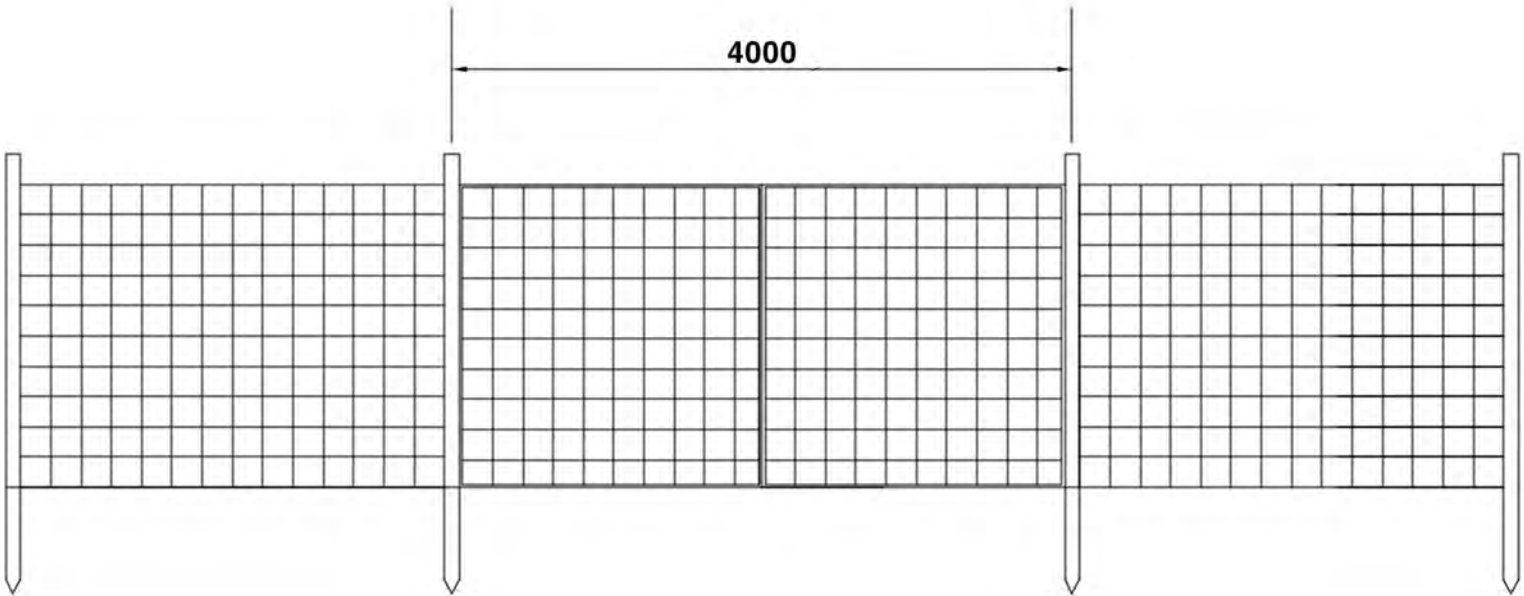
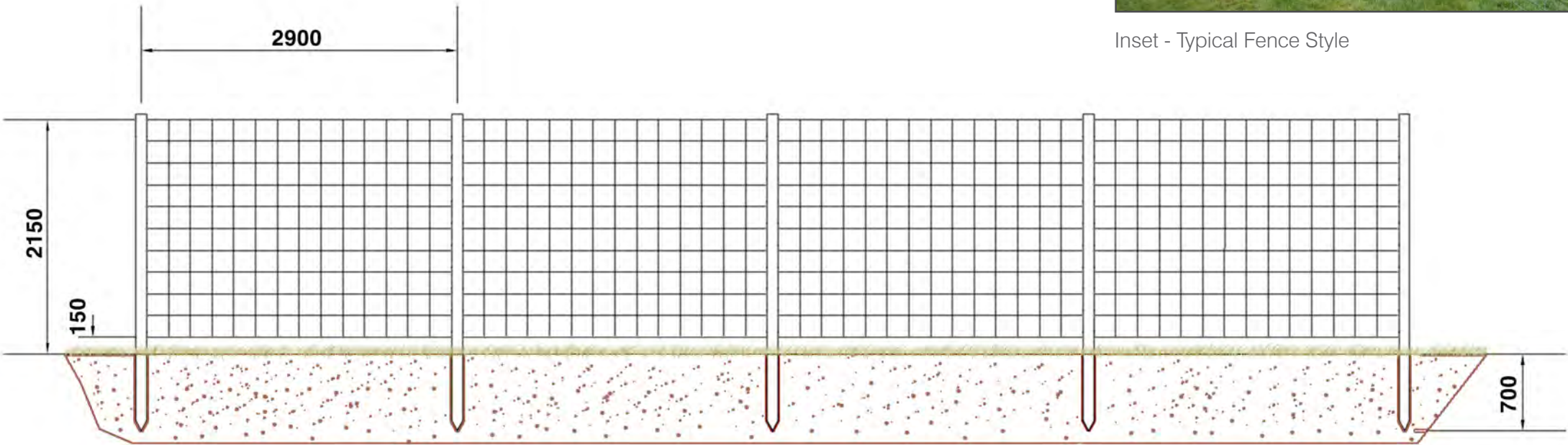
EAST STOUR SOLAR FARM

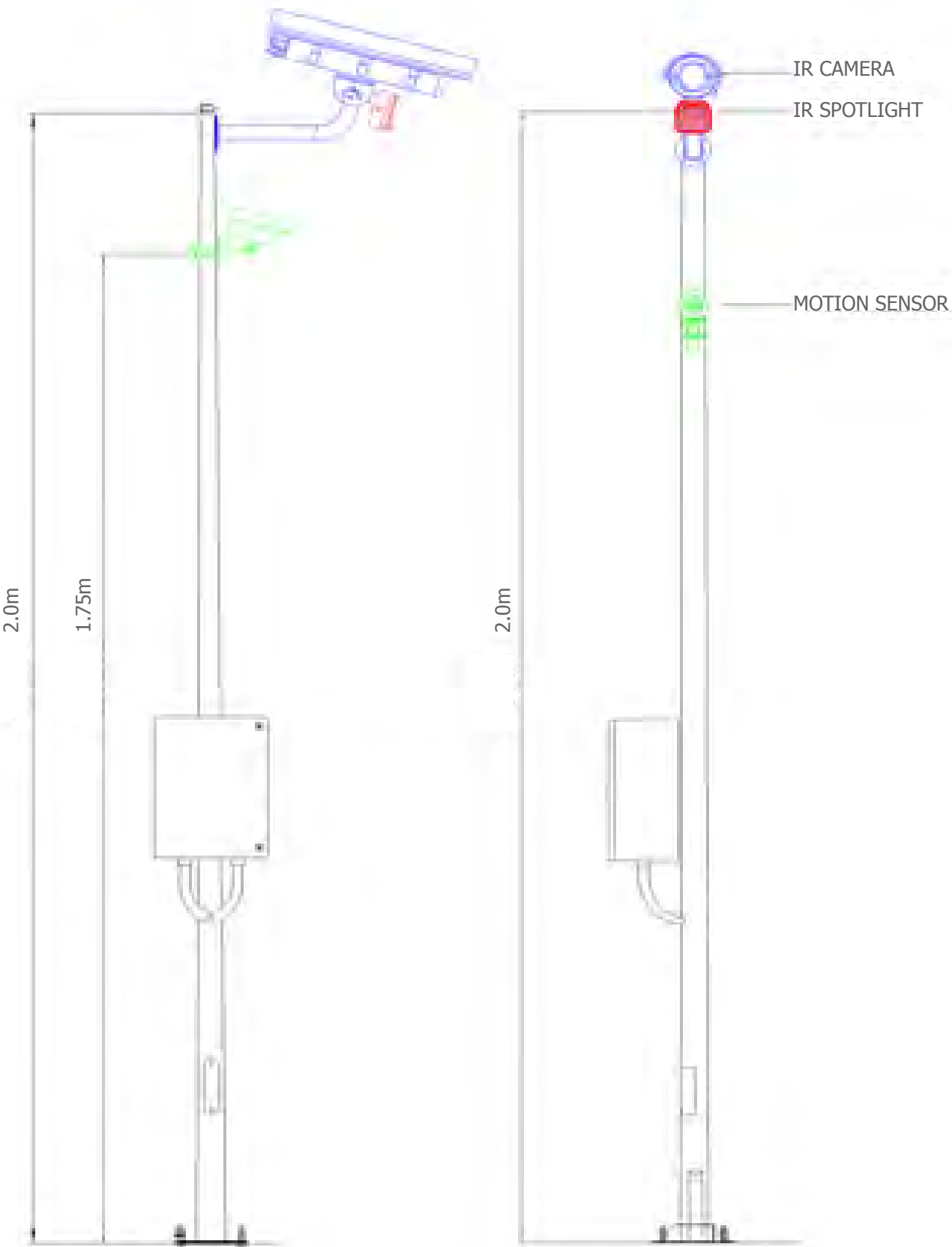
Typical Boundary Fence and Gate

Figure 6.6

NOTES

- 1 All measurements in millimetres, unless stated otherwise
- 2 2m High Tensile Deer Fencing
- 3 Fencing raised by 150mm to allow for passage of small animals.
- 4 Gates installed across access track at both ends.
- 5 Post depth according to ground conditions.



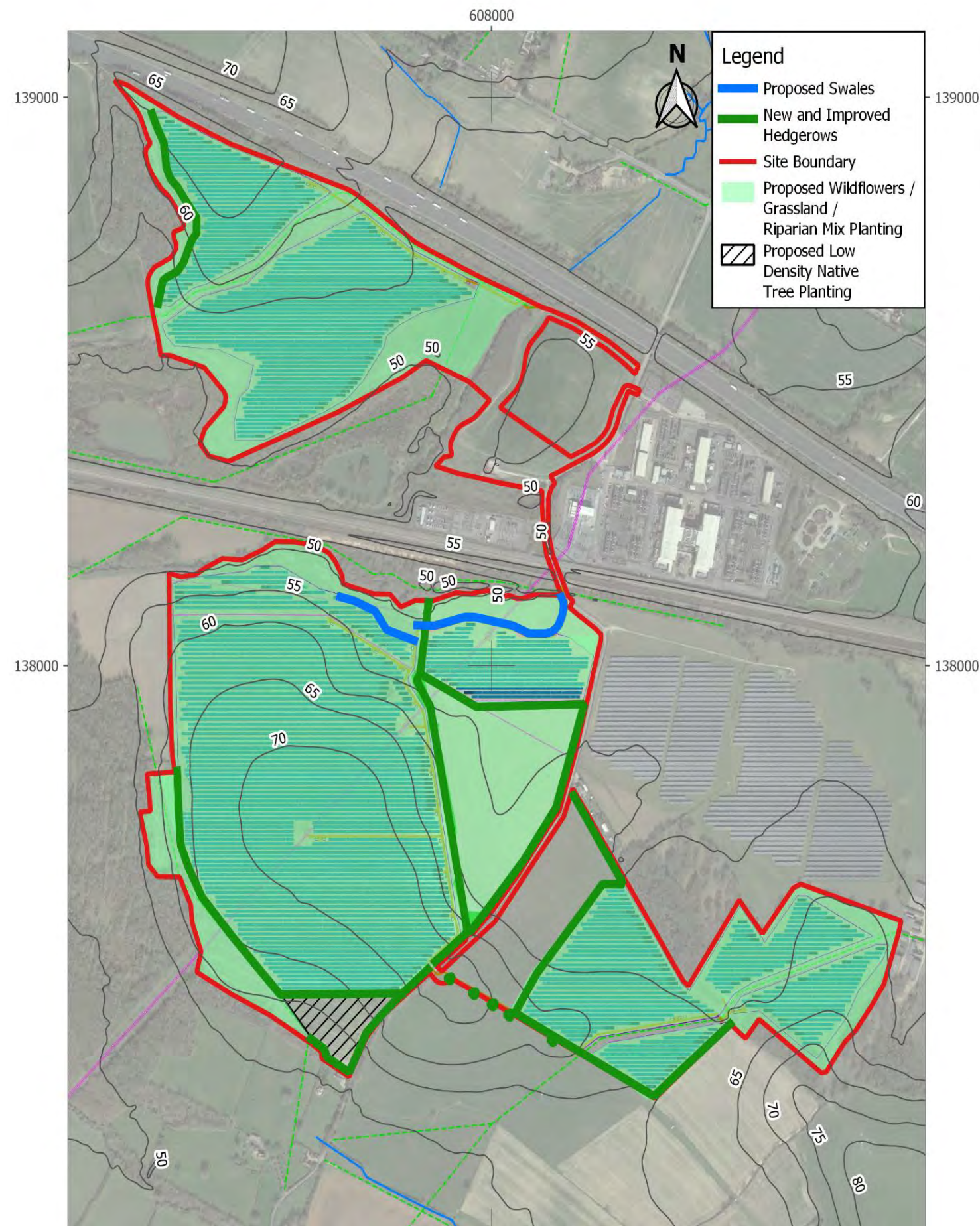


EAST STOUR SOLAR FARM

Typical CCTV Detail

Figure 6.7

- NOTES
- 1. Image courtesy of Altron (not to scale)
 - 2. Exact equipment to be procured prior to construction in agreement with the LPA.



EAST STOUR SOLAR FARM

Surface Water Drainage Strategy

Figure 9.1

NOTES

Extracted from ES Volume 4, Appendix 9.1 - Flood Risk Assessment and Outline Drainage Strategy

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EAST STOUR SOLAR FARM

Phase 1 Habitat Plan

Figure 10.1

KEY

 North



Habitat Mitigation and Enhancement Plan

Figure 10.2

KEY



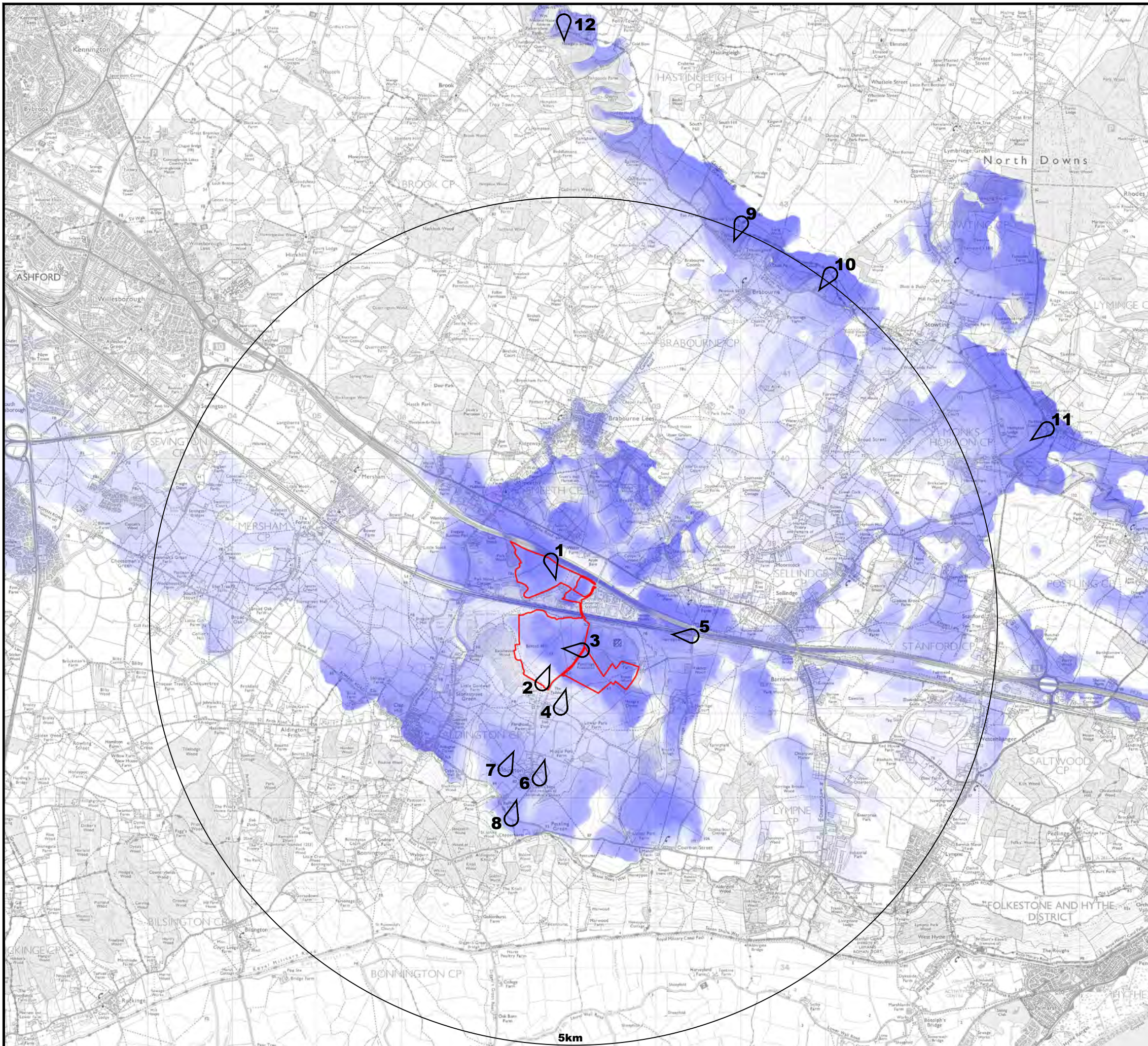
North

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Project:

East Stour Solar Farm



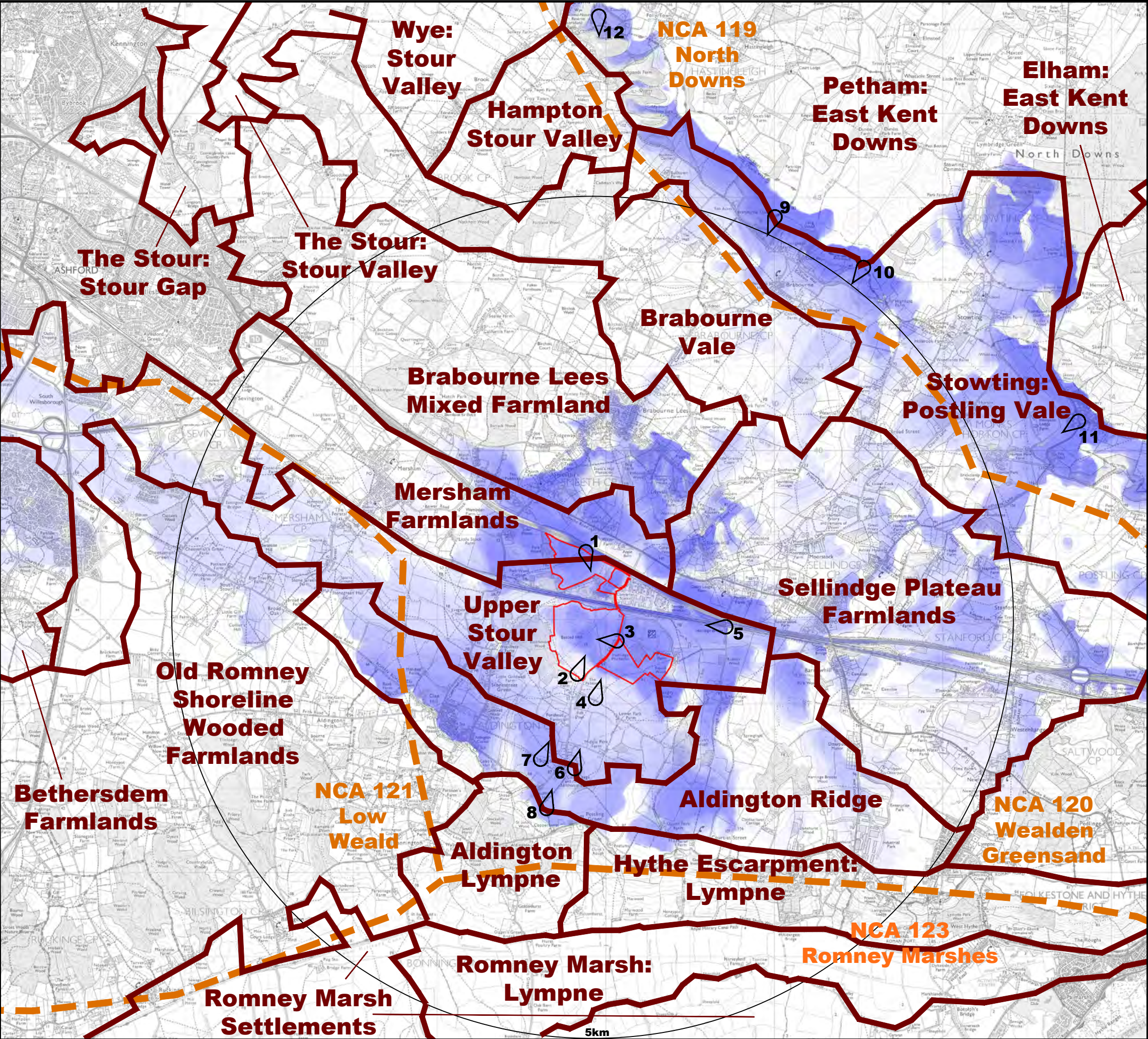
- Key:
- Approximate application boundary
 - Zone of Theoretical Visibility of proposed highest points of solar panels @ 3m above ground level
 - 12 Viewpoint location

- Notes:
1. ZTV, generated 16th December 2021.
 2. Predicted visibility is for observer eye level 2m above ground level.
 3. The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
 4. Created using Ordnance Survey digital 5m terrain data.
 5. Reproduced from Ordnance Survey digital map data © Crown copyright 2021. All rights reserved. Licence number 100053544.



Figure 11.1
5km Radius Zone of Theoretical Visibility

Drawn by: BJD
Checked by:
Date: 17-12-21



Project: **East Stour Solar Farm**



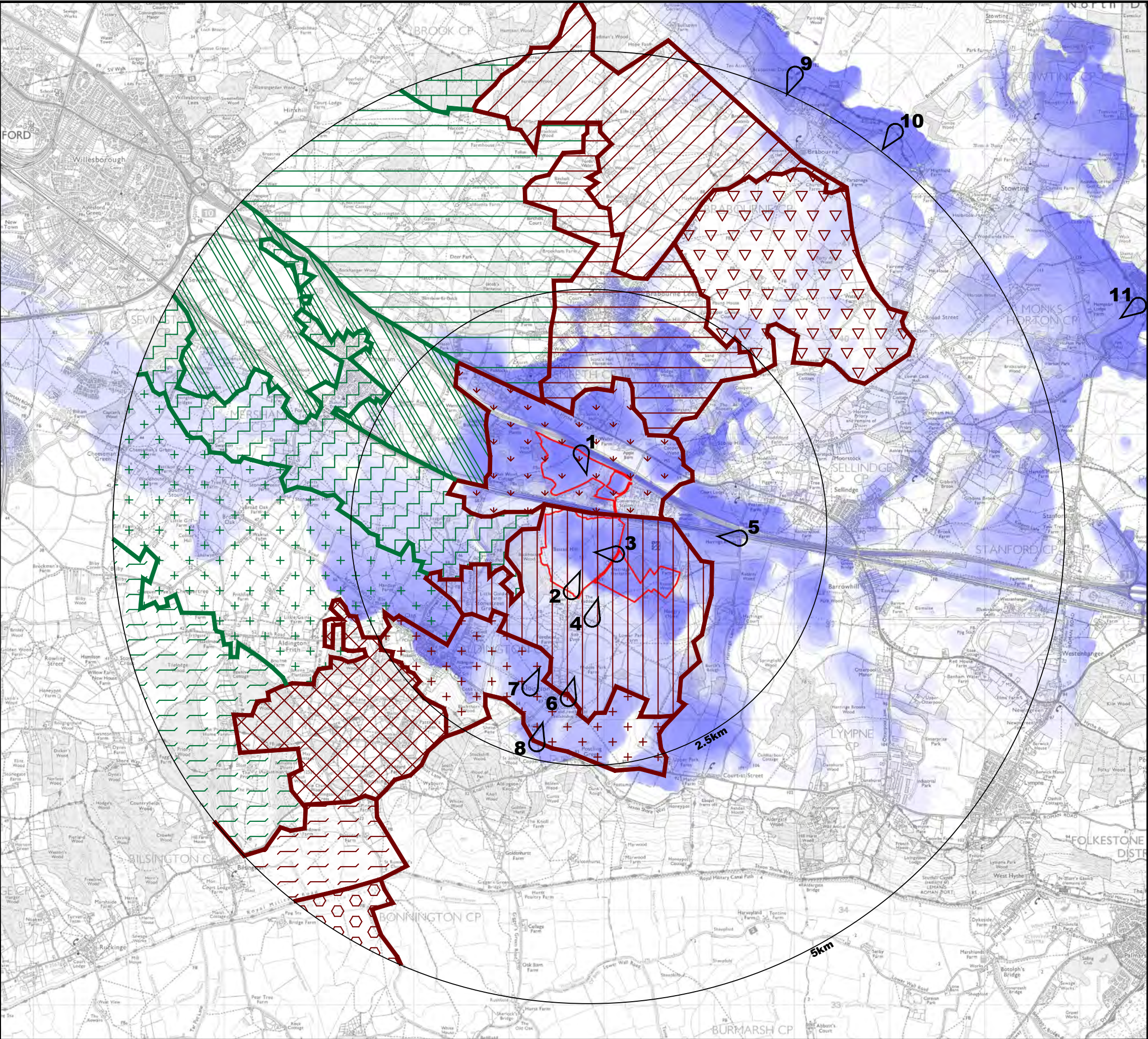
- Key:
- Application boundary
 - - - National Character Area boundary
 - 1 Viewpoint location

- Notes:
- For information regarding the ZTV plase refer to Figure 11.1.
 - Reproduced from Ordnance Survey digital map data © Crown copyright 2021. All rights reserved. Licence number 100053544.



Figure 11.2
Landscape Character Plan - Kent County LCAs

Drawn by: BJD
Checked by:
Date: 17-12-21



Project:

East Stour Solar Farm



Key:

Application boundary

Landscape Character Areas Ashford (urban fringe):

- ++ Aldington Ridge
- ▤ Brabourne Vale
- ▤▤ Brabourne Lees Mixed Farmlands
- ▤▤▤ Mersham Farmlands
- ▤▤▤▤ Old Romney Shoreline Woodland Farmlands
- ▤▤▤▤▤ Upper Stour Valley

Landscape Character Areas Ashford (rural fringe):

- ▤▤▤▤ Brabourne Farmlands
- ▤▤▤▤▤ Brabourne Arable Farmlands
- ▤▤▤▤▤▤ Brabourne Lees Hilly Farmlands
- ▤▤▤▤▤▤▤ Evegate Mixed Farmlands
- ▤▤▤▤▤▤▤▤ East Stour Valley
- ▤▤▤▤▤▤▤▤▤ Aldington Ridgeline
- ▤▤▤▤▤▤▤▤▤▤ Bonnington Wooded Farmlands
- ▤▤▤▤▤▤▤▤▤▤▤ Old Romney Shoreline Settlements
- ▤▤▤▤▤▤▤▤▤▤▤▤ Royal Military Marshlands

1 Viewpoint location

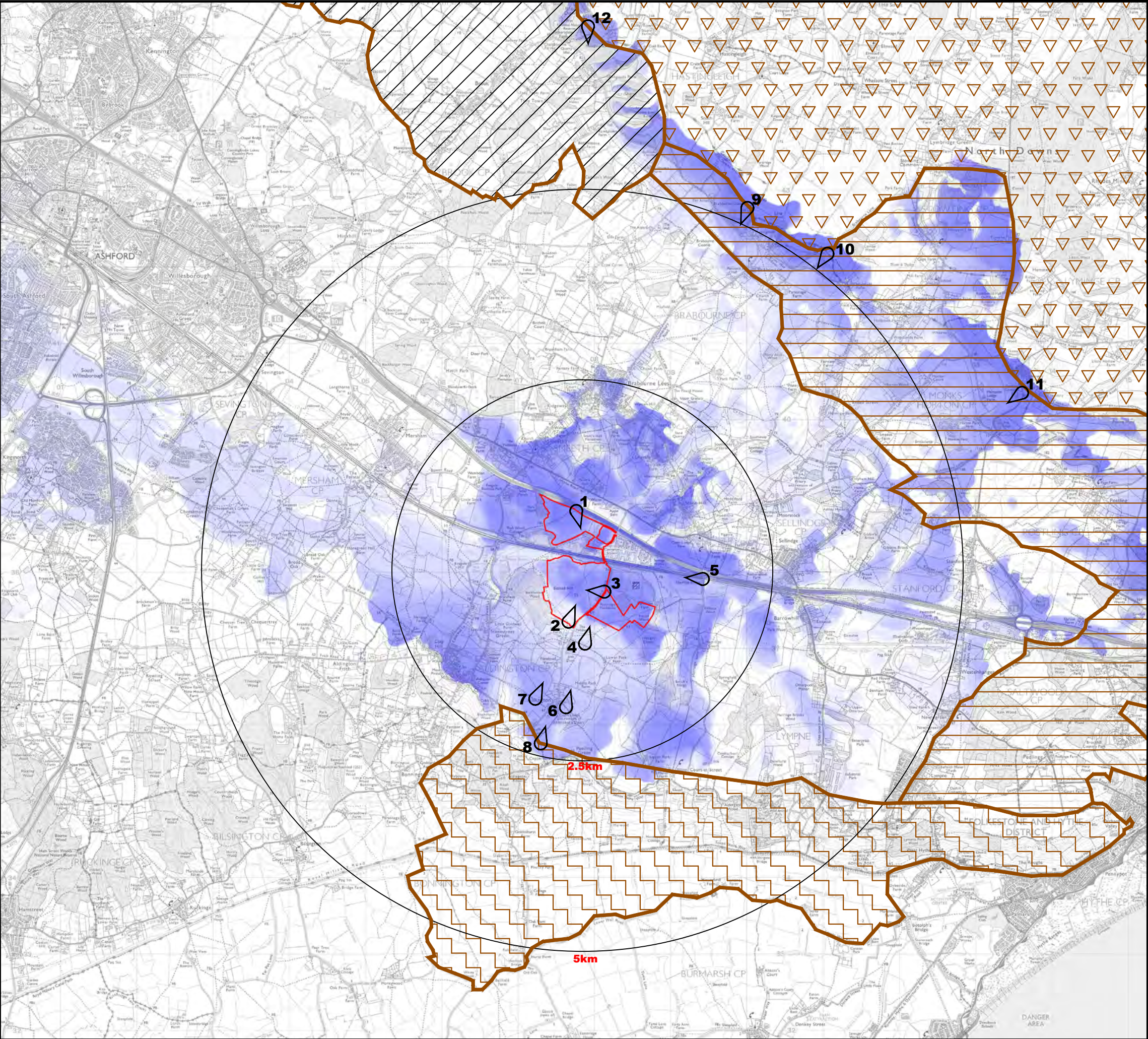
- Notes:
- For information regarding the ZTV please refer to Figure 11.1.
 - Reproduced from Ordnance Survey digital map data © Crown copyright 2021. All rights reserved. Licence number 100053544.

Scale: 1:40,000 @A3

0 500m 1km 2km

Figure 11.3
Landscape Character Plan (Ashford Borough)

Drawn by: BJD
Checked by:
Date: 23-12-21



Key:

Application boundary

Landscape Character Areas within Kent Downs AONB:

Stour Valley

East Kent Downs

Postling Scarp and Vale

Lympne Greensand Escarpment

1

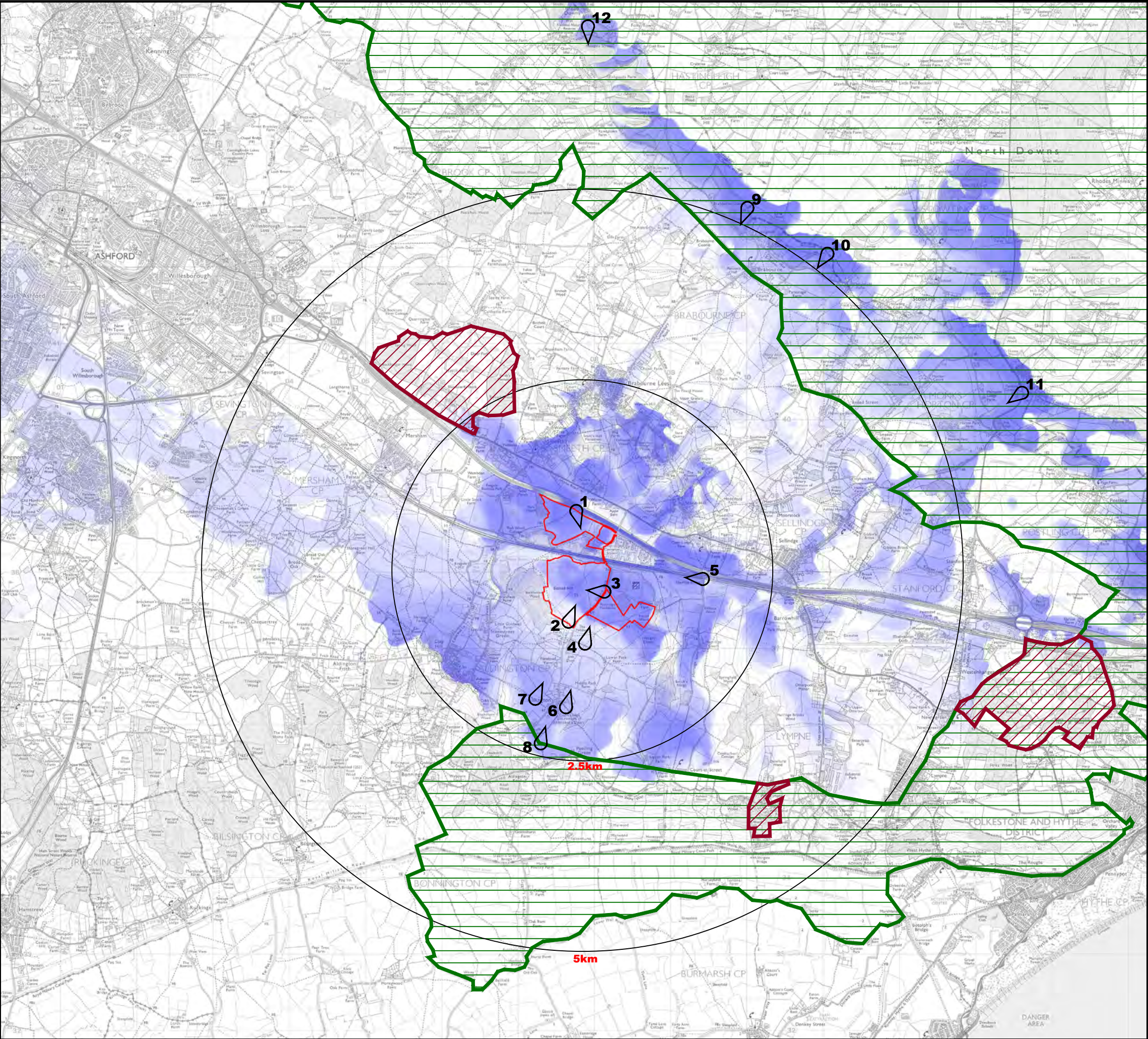
Viewpoint location

- Notes:
1.

For information regarding the ZTV please refer to Figure 11.1.
2.

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Project:

East Stour Solar Farm



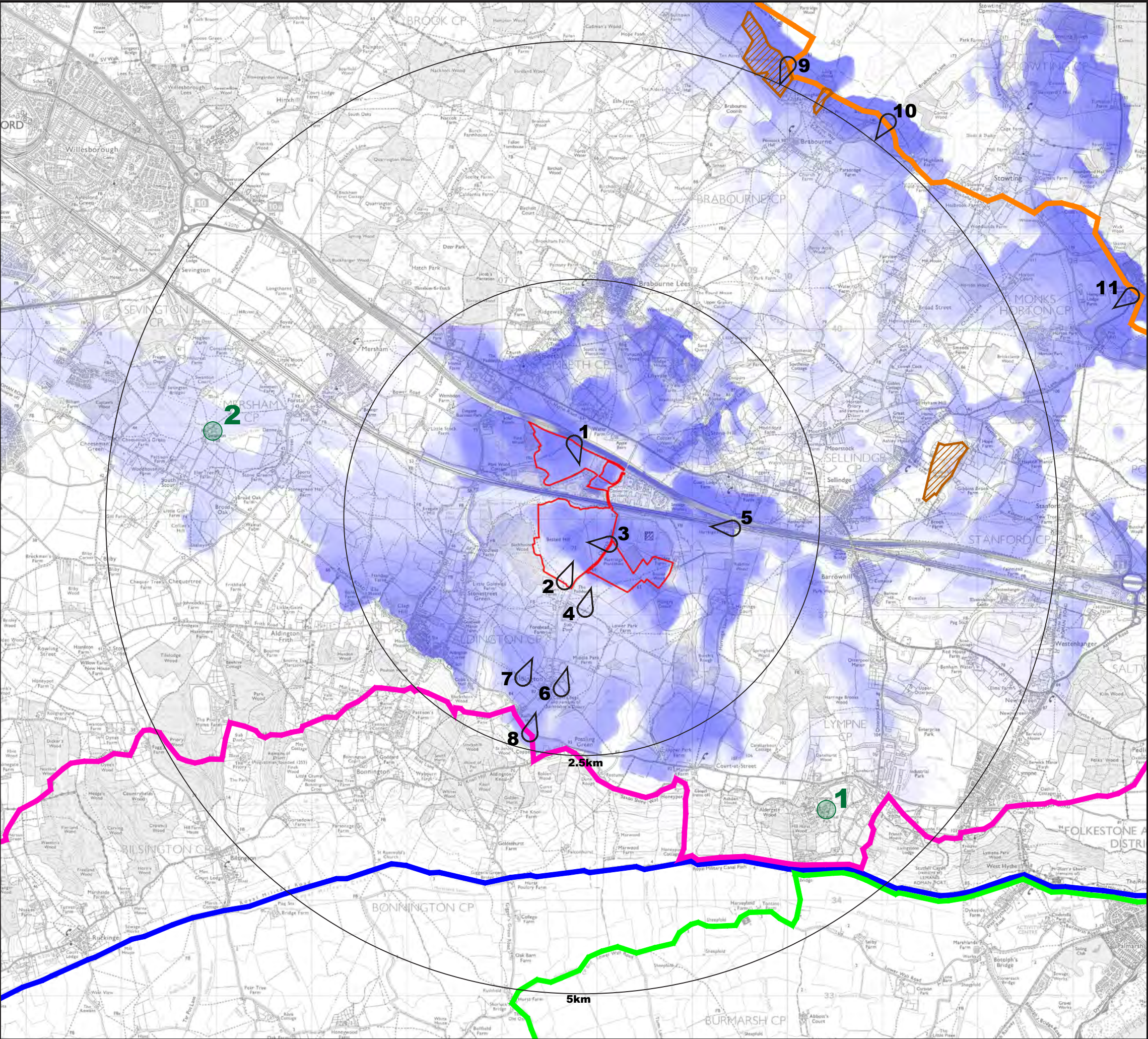
- Key:
- Application boundary
 - Approximate location of AONB boundary
 - Historic Parks and Gardens
 - Viewpoint location

- Notes:
- For information regarding the ZTV please refer to Figure 11.1.
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Figure 11.5
Landscape Designations

Drawn by: BJD
Checked by:
Date: 16-09-21



Project:

East Stour Solar Farm



- Key:
- Application boundary
 - Areas of Open Access Land
 - Saxon Shore Way
 - Royal Military Canal Path
 - North Downs Way
 - Sustrans route 2

- Visitor Attractions:
- 1 Port Lympe Wild Animal Park
 - 2 Sawnton Mill
 - 1 Viewpoint location

- Notes:
- For information regarding the ZTV please refer to Figure 11.1.
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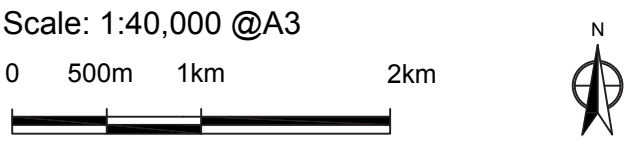
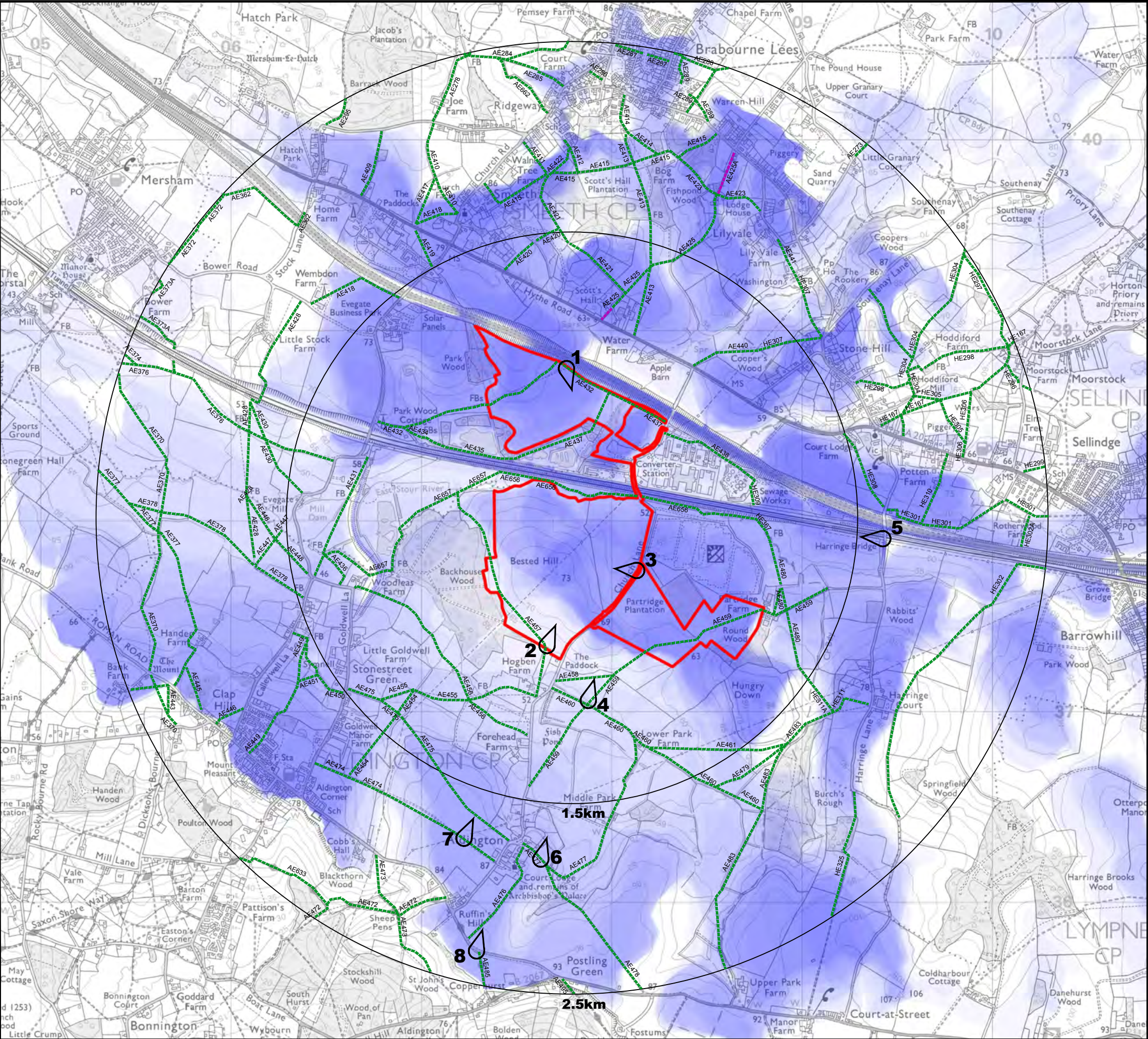


Figure 11.6
Recreational Routes and Visitor Attractions

Drawn by: BJD
Checked by:
Date: 16-12-21



Project:

East Stour Solar Farm



- Key:
- Application boundary
 - Footpath
 - Restricted Byway
 - Viewpoint location

- Notes:
- For information regarding the ZTV please refer to Figure 11.1.
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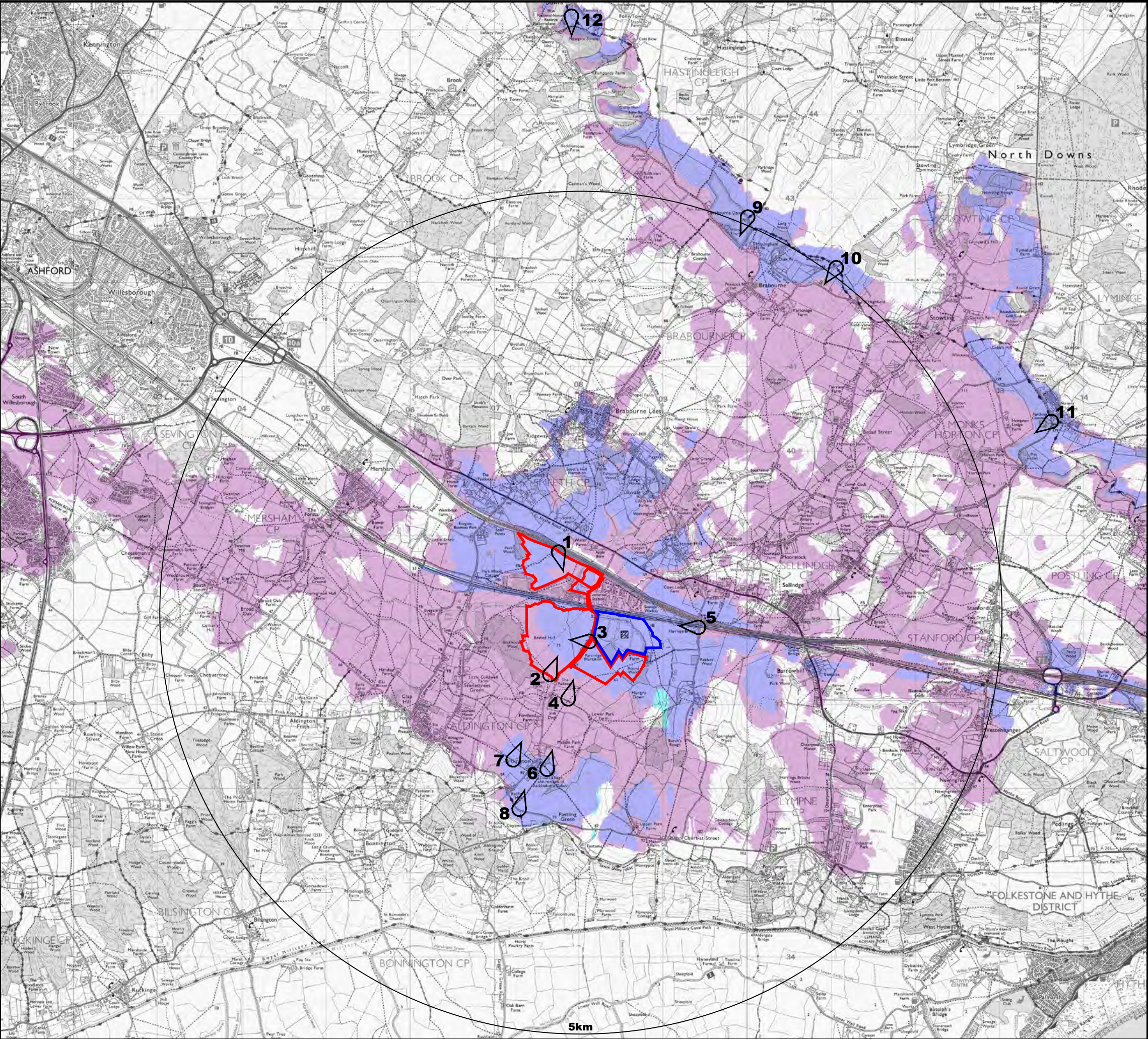
Scale: 1:20,000 @A3

0 500m 1km

A north arrow pointing upwards, with the letter "N" above it.

Figure 11.7
Public Rights of Way

Drawn by: BJD
Checked by:
Date: 16-12-21



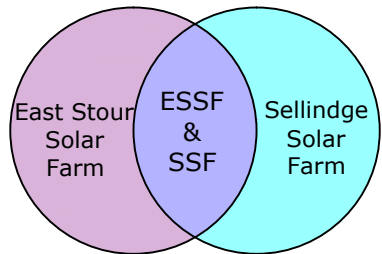
Project:

East Stour Solar Farm



- Key:
- East Stour application boundary - (proposed) 3.0m solar panel height
 - Sellindge Solar Farm - (operational) 2.6m solar panel height

Theoretical visibility of:



1 Viewpoint location

- Notes:
- CZTV, generated 17th December 2021.
 - Predicted visibility is for observer eye level 2m above ground level.
 - The analysis does not take into account the screening effects of vegetation, buildings or other surface features.
 - Created using Ordnance Survey digital 5m terrain data.
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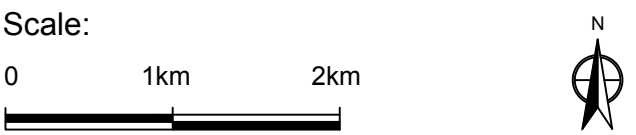
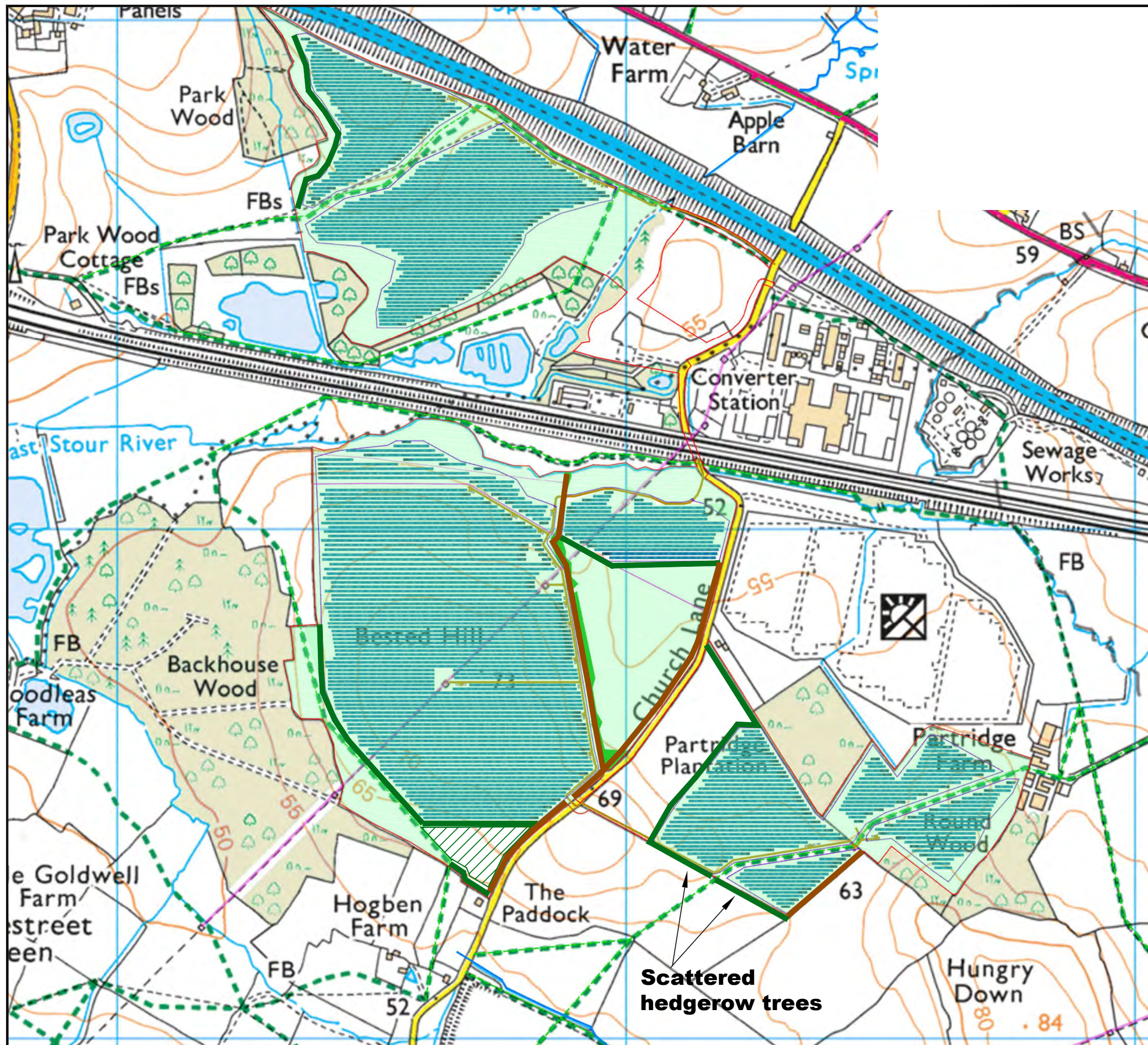


Figure 11.8
Cumulative ZTV with Sellindge Solar Farm

Drawn by: BJD
Checked by:
Date: 17-12-21



Project: **East Stour Solar Farm**



- Key:
- Application boundary
 - New hedgerow
 - ▨ New low density native tree planting
 - ▨ Existing field boundary improvements (where necessary)
 - ▨ Wildflower / grassland / riparian mix planting

- Notes:
1. Reproduced from Ordnance Survey digital map data © Crown copyright 2021. All rights reserved. Licence number 100053544.

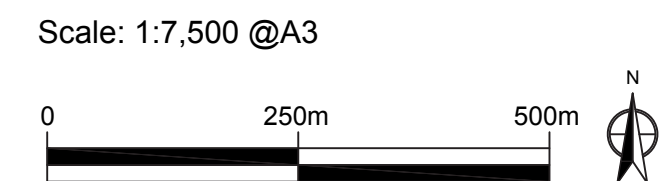
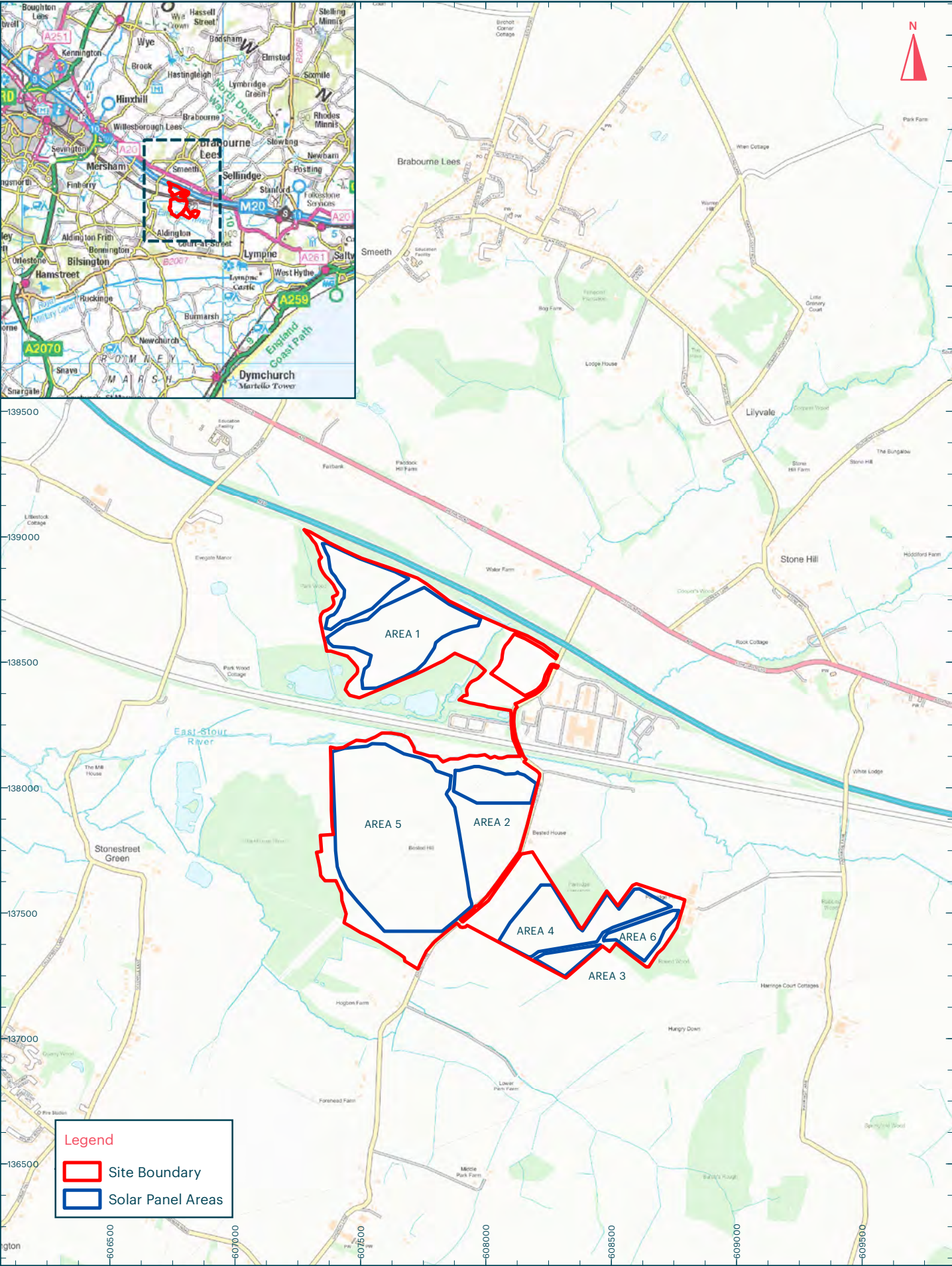


Figure 11.9
Mitigation Proposals Plan

Drawn by: BJD
Checked by:
Date: 19-12-21



Title:

Figure 12.1: Site Location

Address:

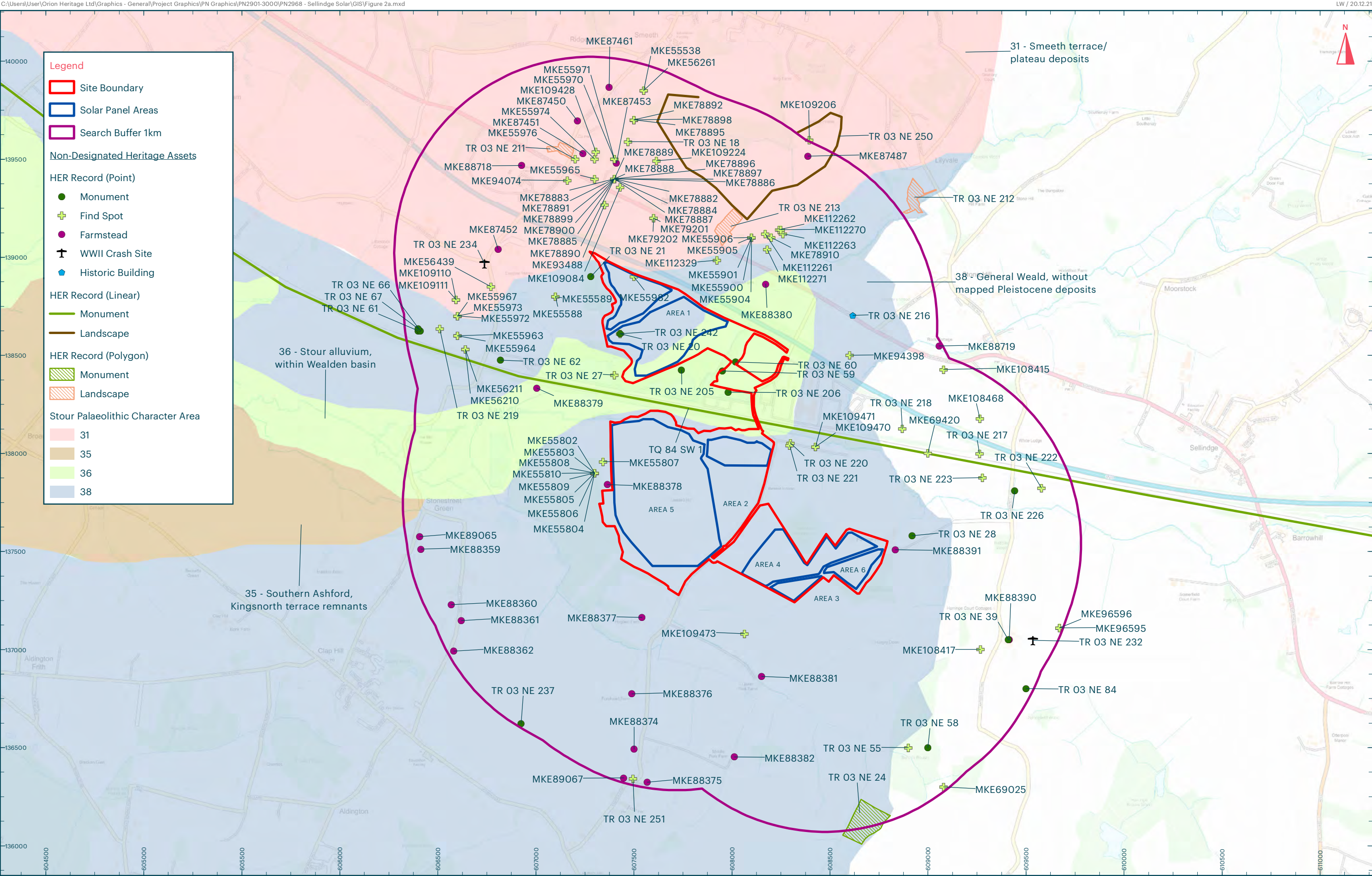
Sellindge Solar Farm

Scale at A4: 1:20,000

0

500m

orion.



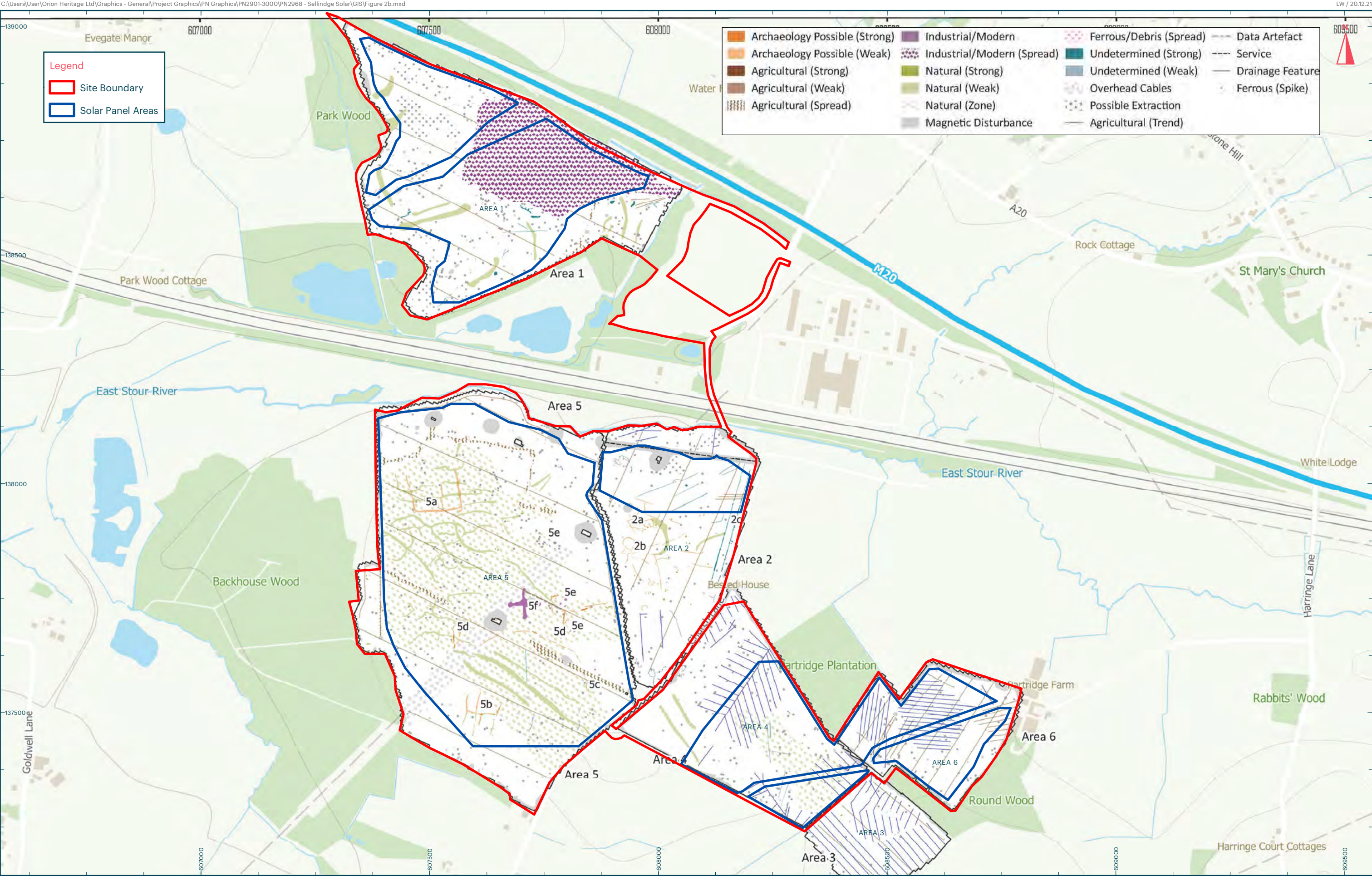
Title:
Figure 12.2: HER Monuments Data

Address:
Sellindge Solar Farm

Scale at A3: 1:17,500

0 500m





Title:
Figure 12.3: Geophysical Survey Interpretation Overview

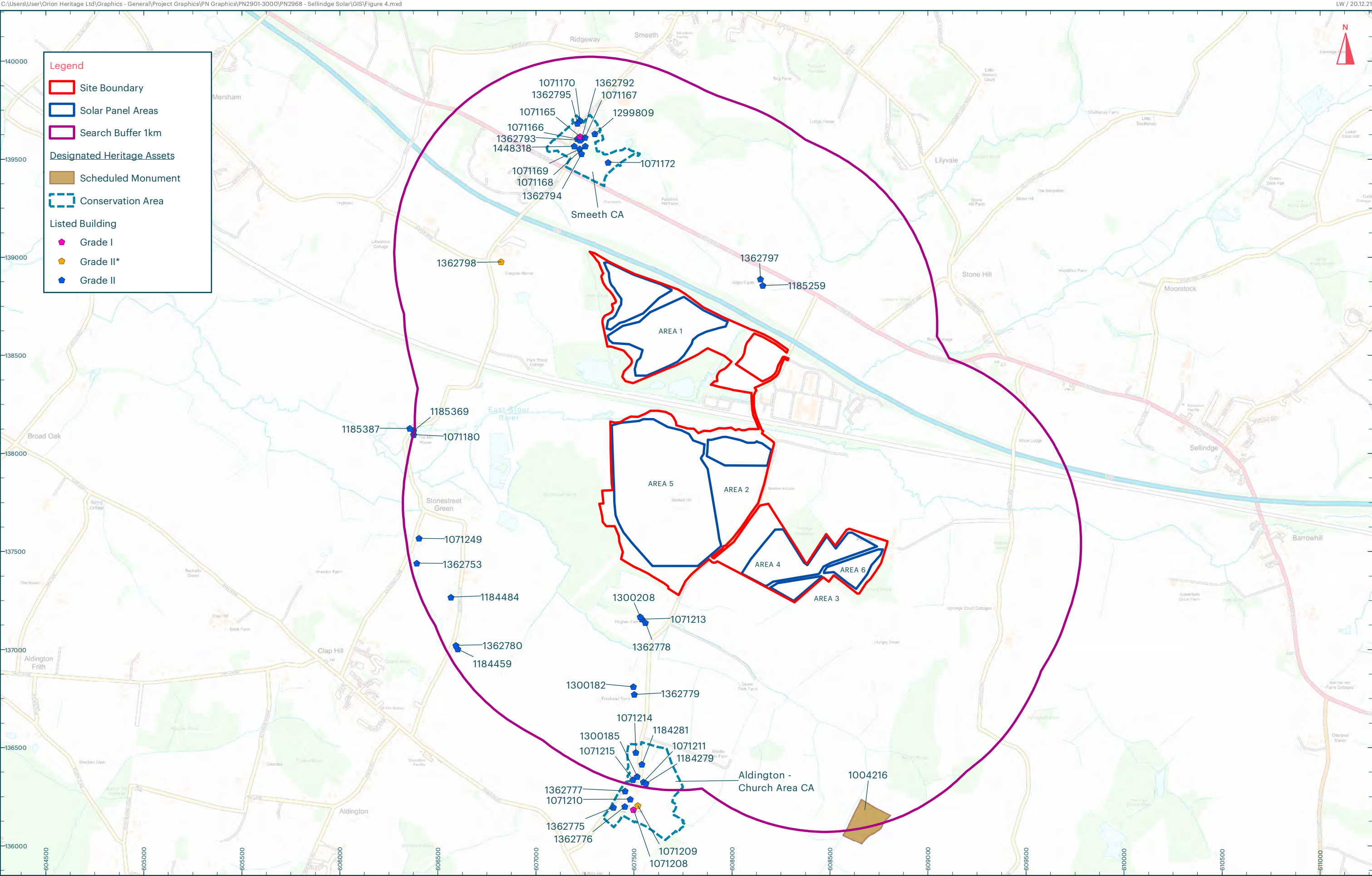
Address:
Sellindge Solar Farm

Scale at A3: 1:7,500

0 250m







Title:
Figure 12.5: Designated Heritage Assets & Conservation Areas

Address:
Sellindge Solar Farm

Scale at A3: 1:17,500

0 500m



East Stour Solar Farm
Residential Based Receptors
Figure 14.1



- Key
- Development Boundary
 - Panel Boundary
 - 1km Study Area
 - Glare Not Possible at Receptor
 - Glare Possible at Receptor
 - Residential Area
 - Non-Reflection Zones

Neo Office Address:
Wright Business Centre, 1 Lonmay Road, Glasgow, G33 4EL



Date: 07/01/2021
Drawn By: Scott Griffin
Scale (A3): 1:15,000
Drawing No: NEO00985/0011/A

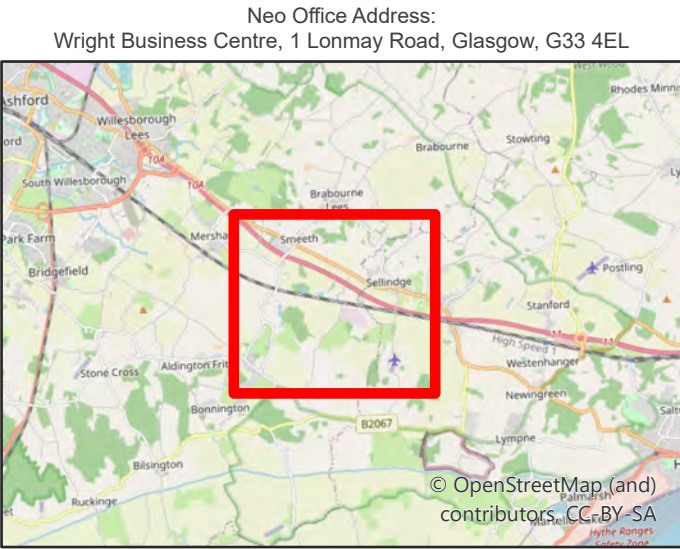


East Stour Solar Farm
Road Based Receptors
Figure 14.2



Key

- Development Boundary
- Panel Boundary
- 1km Study Area
- Glare Not Possible at Receptor
- Glare Possible at Receptor
- Non-Reflection Zones



Date: 07/01/2021
Drawn By: Scott Griffin
Scale (A3): 1:15,000
Drawing No: NEO00985/0021/A



East Stour Solar Farm
Rail Based Receptors
Figure 14.3



Key

- Development Boundary
- Panel Boundary
- 1km Study Area
- Glare Possible at Receptor
- Non-Reflection Zones

Neo Office Address:
Wright Business Centre, 1 Lonmay Road, Glasgow, G33 4EL

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Figure 14.4: Panel Area Labels



