

Rosefield Solar Farm

Environmental Statement

Volume 3
Chapter 3: Proposed Development Description Figures

APFP Regulation 5(2)(a)
Planning Act 2008
Infrastructure Planning
(Applications: Prescribed Forms
and Procedure) Regulations 2009
EN010158/APP/6.3
September 2025
Rosefield Energyfarm Limited

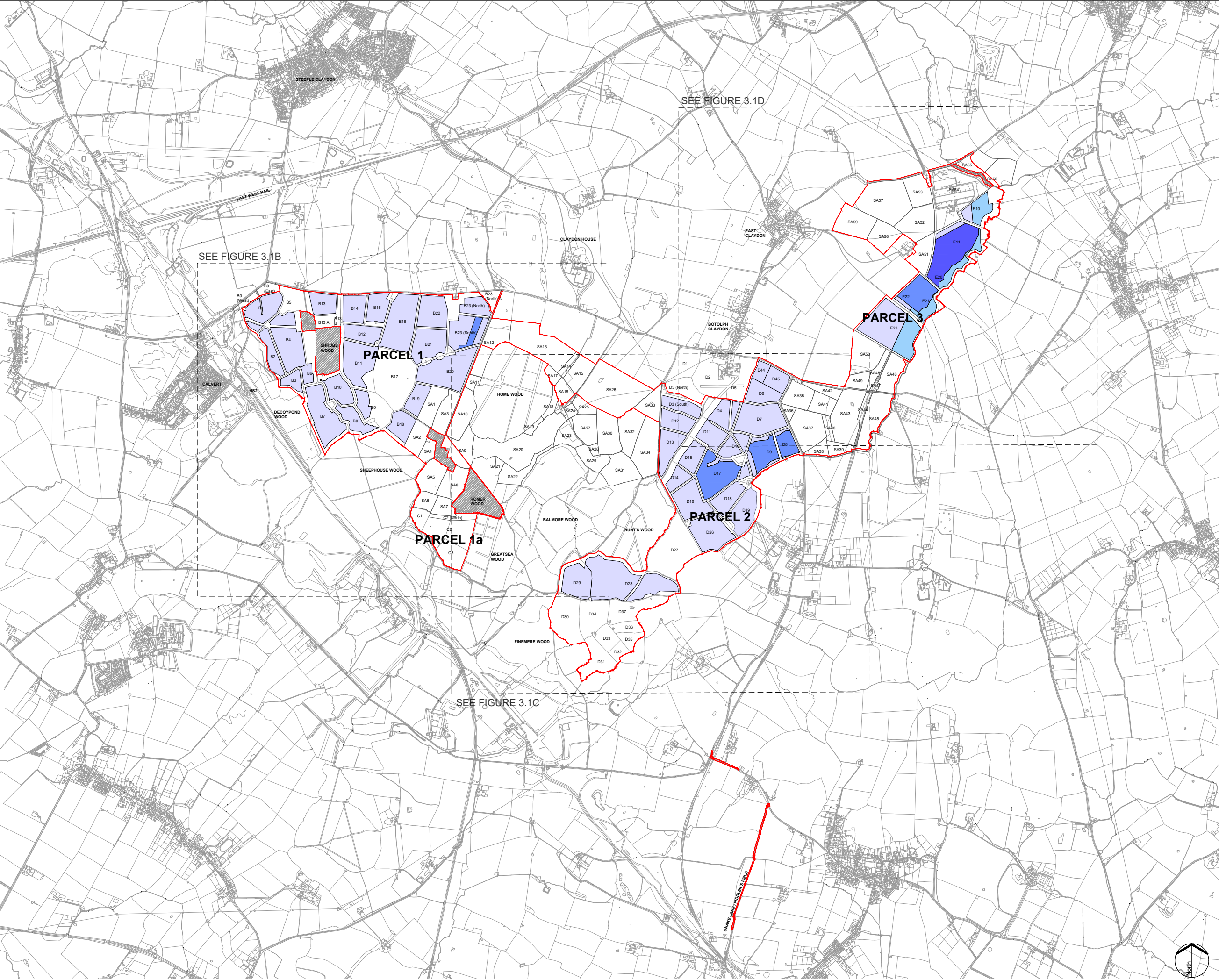


ES Volume 3: Figures

Chapter 3: Proposed Development Description

Drawing number	Revision number	Drawing title	Scale
3.1	01	Height Parameters	1:30,000 @ A3 and 1:10,000 @ A3
3.2	01	Indicative Solar PV and String Inverter Cross-sections	NTS @ A3
3.3	01	Indicative ITS Cross-section and Elevation	NTS @ A3
3.4	01	Indicative Substation Layout	1:1,500 @ A3
3.5	01	Zonal Masterplan	1:30,000 @ A3
3.6	01	Indicative Cable Trench Sections	NTS @ A3
3.7	01	Indicative Cable Crossings and Cable Corridors	1:20,000 @ A3
3.8	01	Indicative Location of Primary and Secondary Construction Compounds	1:30,000 @ A3
3.9	01	Indicative Construction and Operational Access	1:30,000 @ A3 and 1:10,000 @ A3
3.10	01	Existing and Proposed PRow and Permissive Footpaths	1:30,000 @ A3 and 1:10,000 @ A3

3.11	01	Indicative Location of Internal Access Tracks	1:20,000 @ A3
3.12	01	Typical Security Details	1:100 @ A3
3.13	01	Indicative Drainage Cross Sections	1:50 @ A3
3.14	01	Indicative Watercourse and Ditch Crossing Locations	1:20,000 @ A3



KEY:



Order Limits



Areas outside the Order Limits

Maximum height above ground level (AGL) post earthworks



Proposed development up to 3.5 metres (m)



Proposed development up to 4.5m



Proposed development up to 6 metres



Proposed development up to 15m

NOTES:

1. The location of features shown are indicative only. Exact locations to be confirmed on site.
2. Additional features may be present on site that have not been identified on the topographical plan.
3. Parameter plan drawings are based on OS MasterMap information.
4. Refer to Figure 3.5 Zonal Masterplan for indicative locations for components of Rosefield Solar Farm
5. Development up to 3.5m and 4.5m high would typically comprise Solar PV modules.
6. Siting zone for elements up to 6m high may include Main / Satellite Collector Compounds or BESS .
7. Siting zone for elements up to 15m high may include Rosefield Substation.
8. The following components are not shown on the parameter plan drawings within fields where solar PV development or other associated infrastructure is proposed: internal cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, internal access tracks, drainage, construction access and compounds.
9. Offsets from the outermost overhead transmission line and from the base of the transmission towers will be applied when the revised alignment of overhead lines is finalised by National Grid.
- 10.Parameters are above ground level (AGL) post-earthworks

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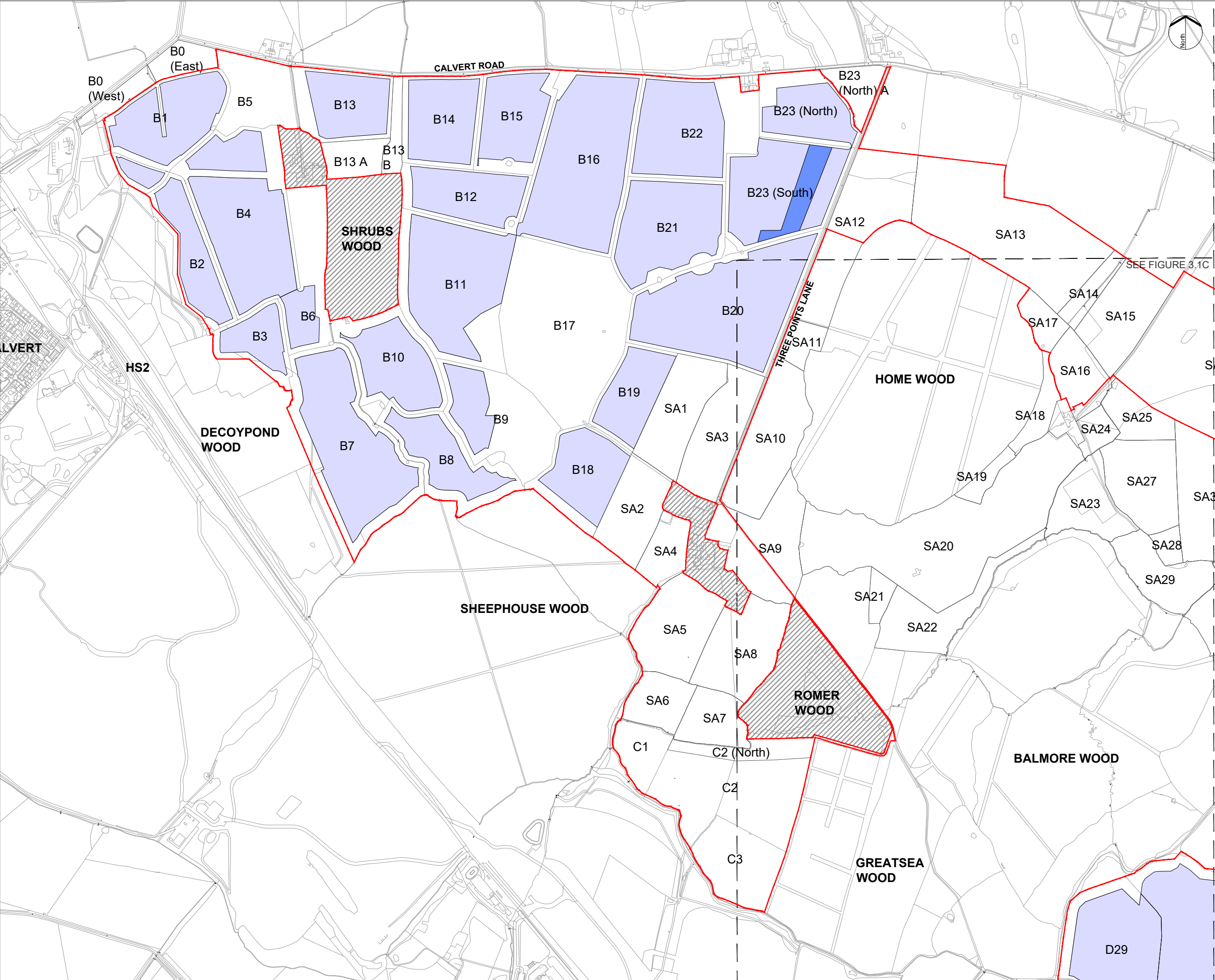


DOCUMENT:
ENVIRONMENTAL STATEMENT
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REGULATION 5(2)(a)

TITLE:
FIGURE 3.1A
HEIGHT PARAMETERS - KEY PLAN

PINS REFERENCE NUMBER:
EN010158/APP/6.3

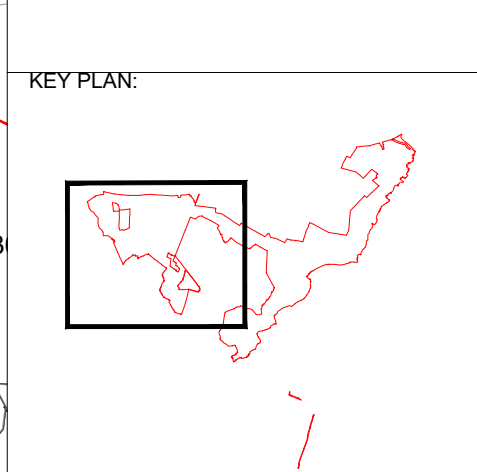
SCALE : 1:30,000 @ A3	REV: 01



KEY:

- Order Limits
- Areas outside the Order Limits
- Maximum height above ground level (AGL) post earthworks
- Proposed development up to 3.5 metres (m)
- Proposed development up to 4.5m
- Proposed development up to 6 metres
- Proposed development up to 15m

NOTES:
1. Refer to Figure 3.1A for drawing notes.



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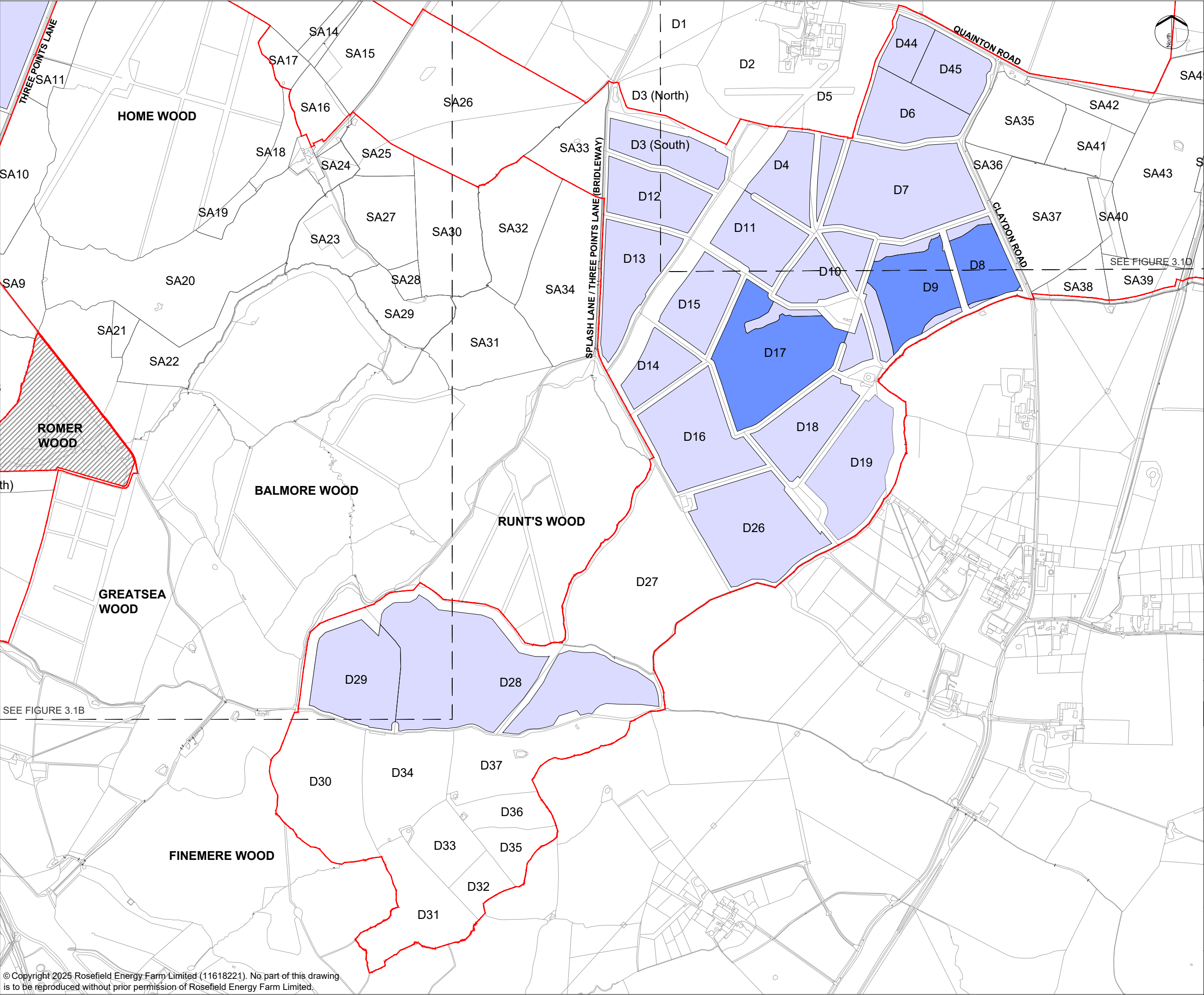
DOCUMENT:
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TITLE:
FIGURE 3.1B
HEIGHT PARAMETERS - PARCEL 1 & 1A

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3

REV: 01



KEY:

Order Limits

Areas outside the Order Limits

Maximum height above ground level (AGL) post earthworks

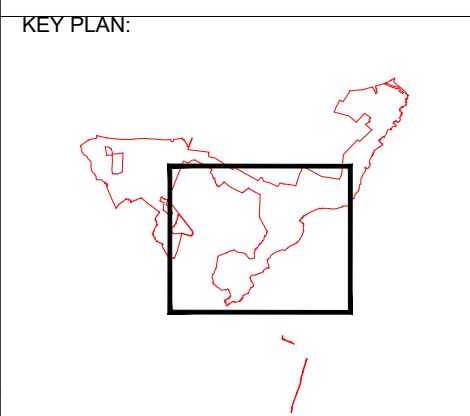
Proposed development up to 3.5 metres (m)

Proposed development up to 4.5m

Proposed development up to 6 metres

Proposed development up to 15m

NOTES:
1. Refer to Figure 3.1A for drawing notes.



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REGULATION 5(2)(a)

TITLE:
FIGURE 3.1C
HEIGHT PARAMETERS - PARCEL 2

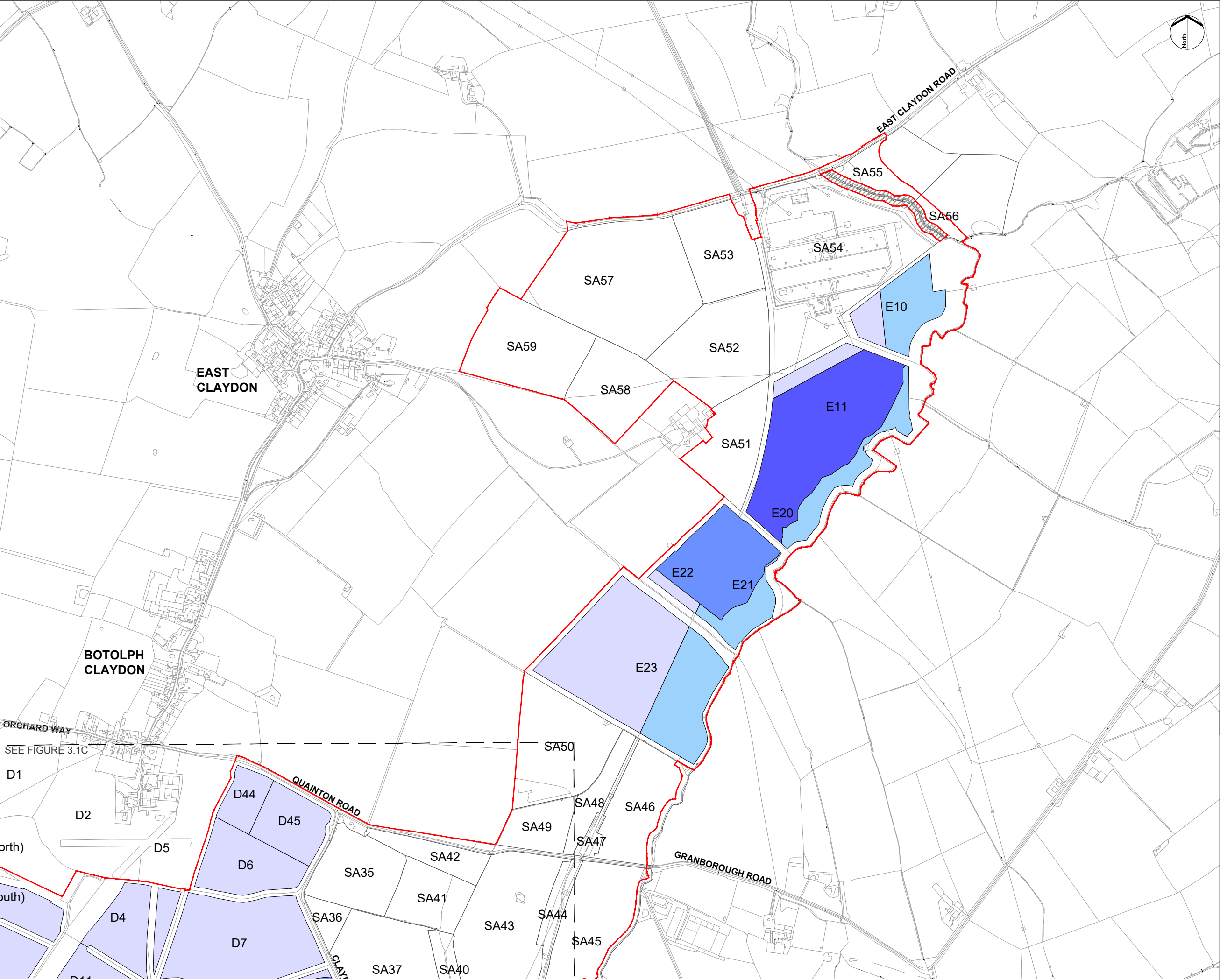
PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3

0

500m

REV: 01

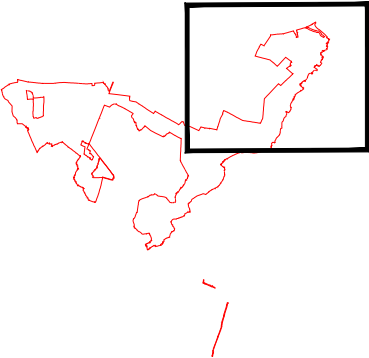


KEY:

- Order Limits
- Areas outside the Order Limits
- Maximum height above ground level (AGL) post earthworks
 - Proposed development up to 3.5 metres (m)
 - Proposed development up to 4.5m
 - Proposed development up to 6 metres
 - Proposed development up to 15m

NOTES:
1. Refer to Figure 3.1A for drawing notes.

KEY PLAN:



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TITLE:
FIGURE 3.1D
HEIGHT PARAMETERS - PARCEL 3

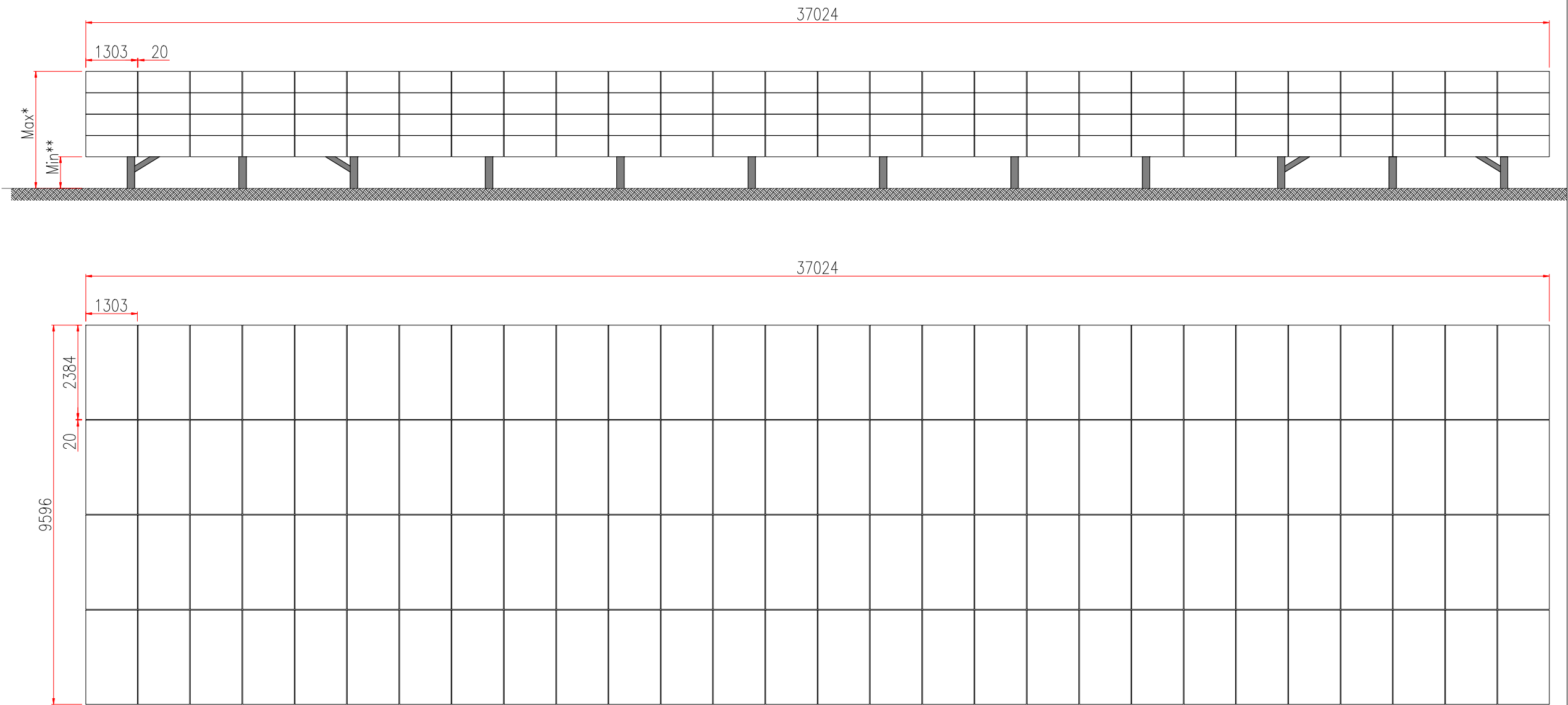
PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3



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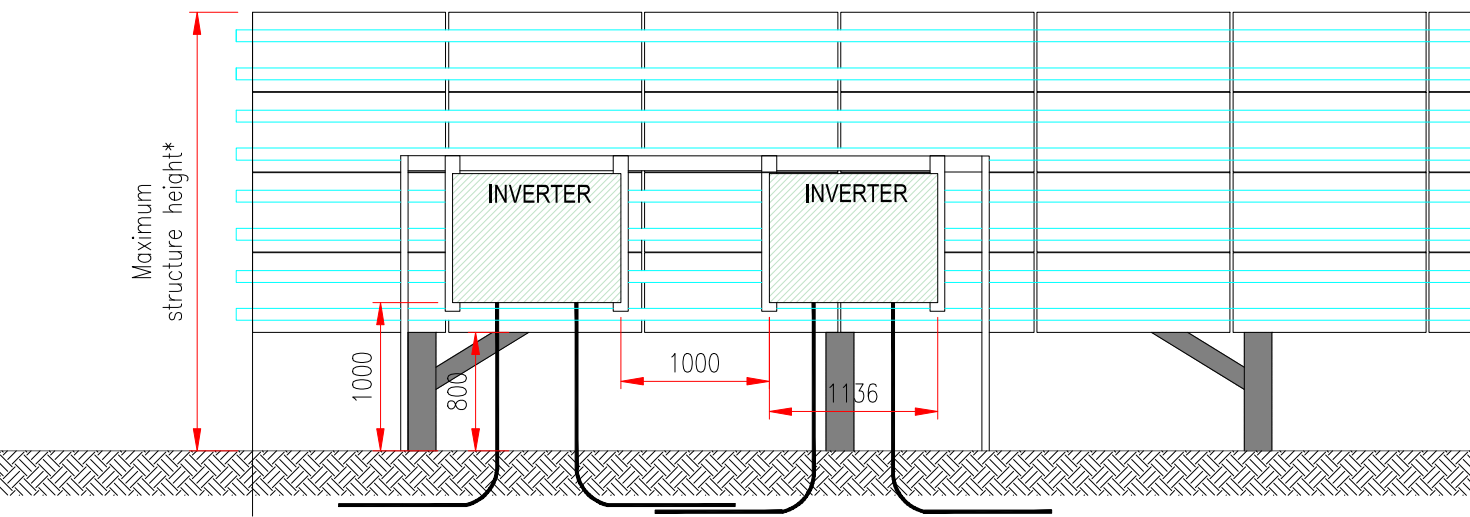
Indicative PV Table Arrangement



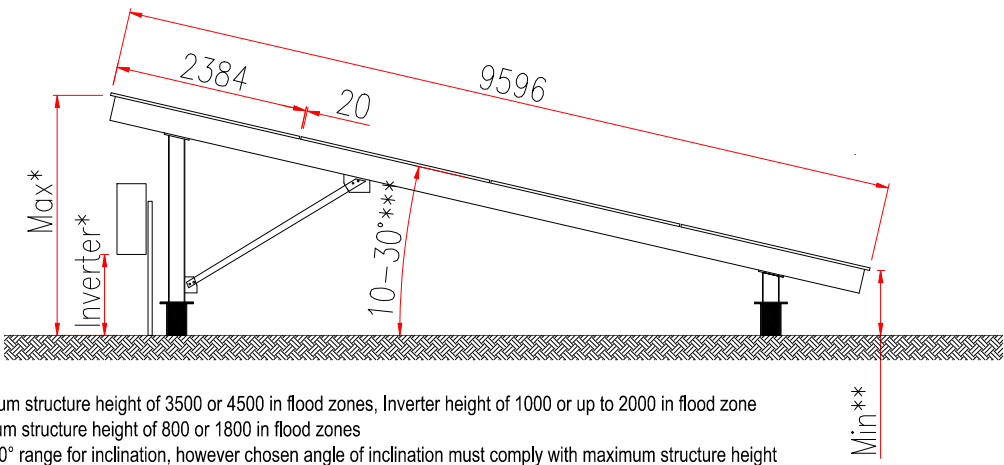
KEY:

- NOTES:
- 1. MAXIMUM HEIGHT OF THE PV TABLES SHALL COMPLY WITH PLANNING PERMISSION.
 - 2. MINIMUM 2.8M INTER-ROW SEPARATION
 - 3. DIMENSIONS ARE IN MILLIMETER UNLESS STATED OTHERWISE.
 - 4. ANY DISCREPANCY IN SCALE THAT IS FOUND ON THIS DRAWING, WRITTEN DIMENSIONS GOVERN.
 - 5. DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION.
 - 6. THE EPC CONTRACTORS IS RESPONSIBLR FOR VERIFYING ALL SITE AND SETTING OUT DIMENSIONS BEFORE COMMENCING WORK.
 - 7. PRECAUTIONARY MEASURES BEFORE PV FOUNDATION INSTALLATION SUCH AS GRADING, COMPACTING AND IMPROVING THE SOIL DUE TO SITE CONDITIONS, TO BE ASSESSED AND CARRIED OUT DURING CONSTRUCTION.

Indicative String Inverter / String Combiner Box Arrangement



Indicative PV Table and String Inverter Cross Section



* Maximum structure height of 3500 or 4500 in flood zones, Inverter height of 1000 or up to 2000 in flood zone
** Minimum structure height of 800 or 1800 in flood zones
*** 10 - 30° range for inclination, however chosen angle of inclination must comply with maximum structure height

01	Sept 2025	DCO Submission	GC	DC	GS
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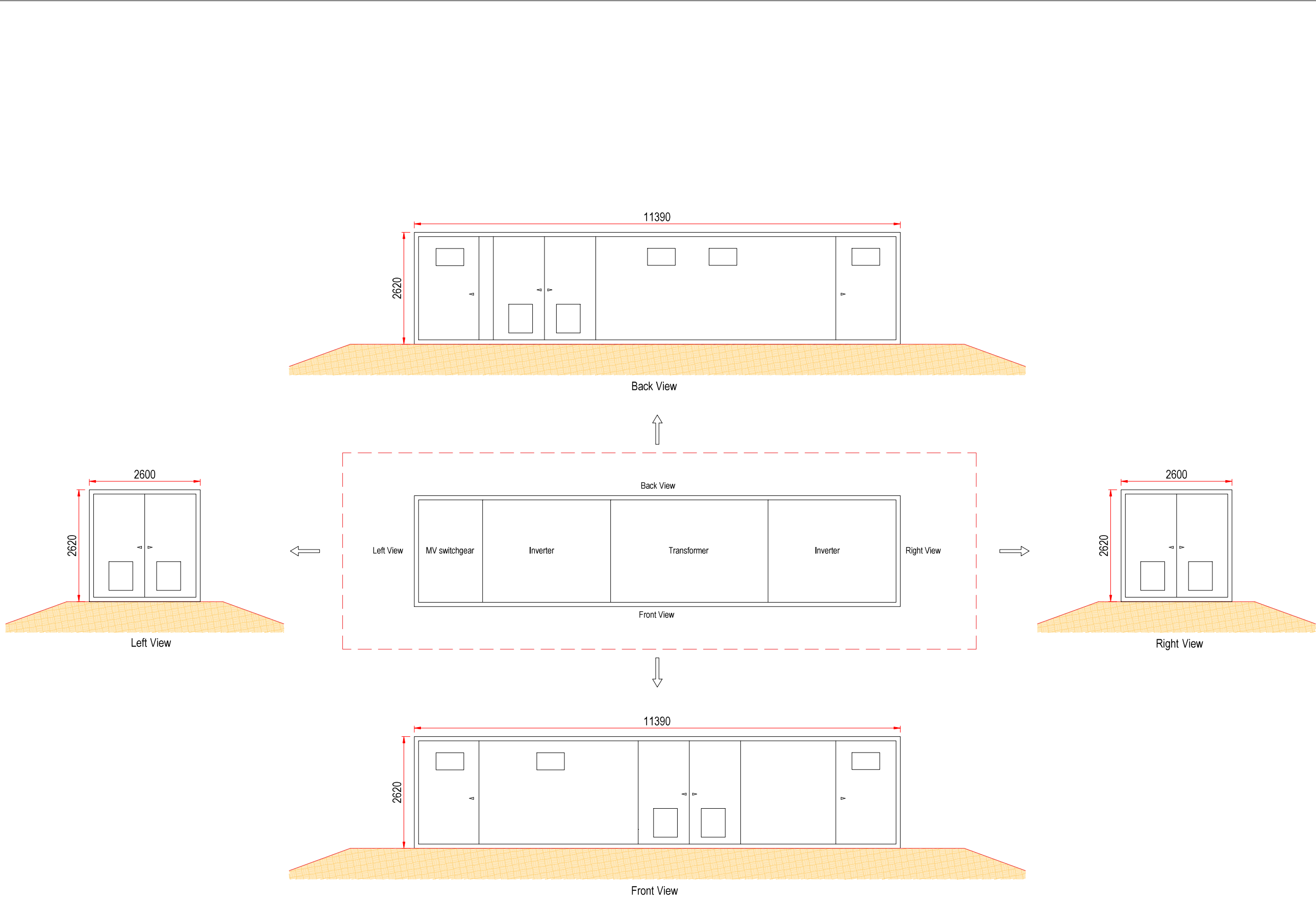
DOCUMENT:
ENVIRONMENTAL STATEMENT VOLUME 3: FIGURES
REGULATION 5(2)(a)

TITLE:
FIGURE 3.2: INDICATIVE SOLAR PV AND STRING
INVERTER CROSS SECTIONS

PINS REFERENCE NUMBER:
EN0101058/APP/6.3

SCALE : NTS

REV
01



KEY:

- NOTES:
1. DIMENSIONS ARE IN MILLIMETER.
 2. ANY DISCREPANCY IN SCALE IS FOUND ON THIS DRAWING, WRITTEN DIMENSIONS GOVERN.
 3. DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION.
 4. THE EPC CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL SITE AND SETTING OUT DIMENSIONS BEFORE COMMENCING WORK

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Rev	Date	Description	Drn	Chk	App

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DOCUMENT:
ENVIRONMENTAL STATEMENT VOLUME 3: FIGURES
REGULATION 5(2)(a)

TITLE:
FIGURE 3.3: INDICATIVE ITS CROSS-SECTION AND
ELEVATION

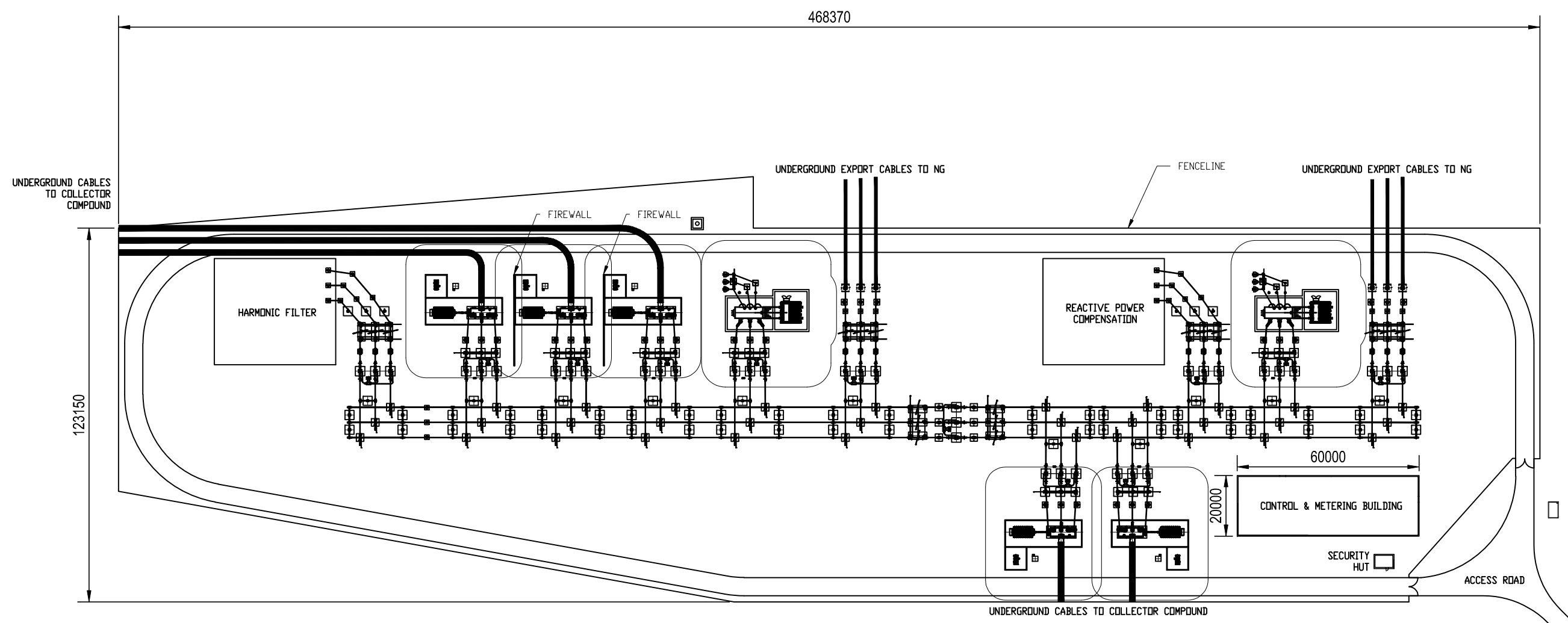
PINS REFERENCE NUMBER:
EN0101058/APP/6.3

SCALE : NTS

REV
01



- NOTES:
- 1. ALL MEASUREMENTS IN MM UNLESS OTHERWISE STATED.
 - 2. THIS LAYOUT IS FOR DEVELOPMENT PURPOSES ONLY AND IS SUBJECT TO CHANGE.
 - 3. SYSTEMS STUDIES REQUIRED TO CONFIRM RATINGS OF EQUIPMENT AND REACTIVE POWER COMPENSATION EQUIPMENT.
 - 4. TRANSFORMER TURRET CT'S HAVE BEEN ASSUMED IN THIS ARRANGEMENT.



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App	Date	Description	Drn	Chk	App

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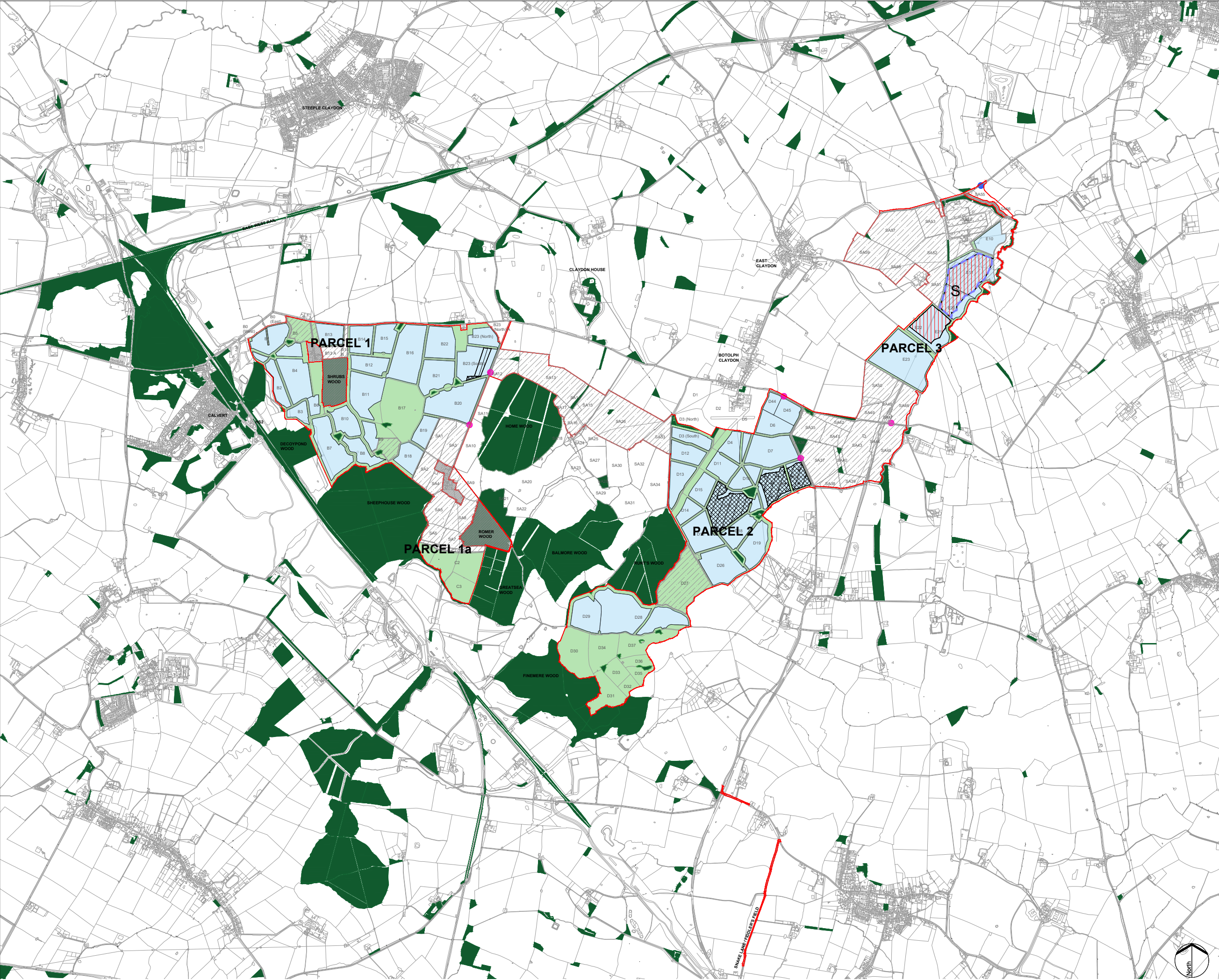
DOCUMENT:
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TITLE:
FIGURE 3.4 - INDICATIVE SUBSTATION LAYOUT

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:1500 @ A3
0 25m 50m

REV:
01



KEY:

Order Limits

Areas outside the Order Limits

Proposed area for Solar PV development

Proposed siting zone for Satellite Collector Compounds

Proposed siting zone for Satellite Collector Compounds Transformers

Proposed siting zone for BESS

Area for underground cable routes and/or access tracks (locations to be determined)
Grid connection corridor may include above-ground infrastructure within the National Grid East Claydon Substation

Proposed siting zone for Main Collector Compound

Proposed siting zone for Rosefield Substation

Indicative site access location from public highway

Indicative access location for abnormal indivisible loads (AIL) from public highway

Proposed area for mitigation and/or enhancement

Existing Woodland

- NOTES:
1. The location of features shown are indicative only. Exact locations to be confirmed on site.

2. Additional features may be present on site that have not been identified on the topographical plan.

3. Parameter plan drawings are based on OS MasterMap information.

4. The following components are not shown on the parameter plan drawings within fields where solar PV development or other associated infrastructure is proposed: internal cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, internal access tracks, drainage, construction access and compounds.

5. Offsets from the outermost overhead transmission line and from the base of the transmission towers will be applied when the revised alignment of overhead lines is finalised by National Grid.

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TITLE:

FIGURE 3.5

ZONAL MASTERPLAN

PINS REFERENCE NUMBER:

EN010158/APP/6.3

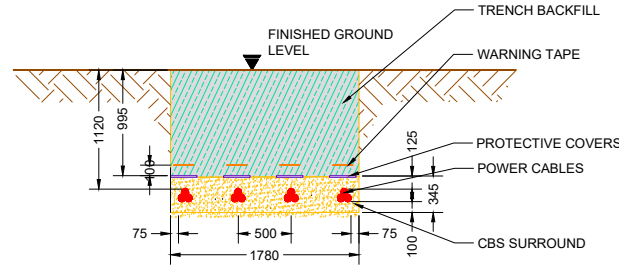
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01km

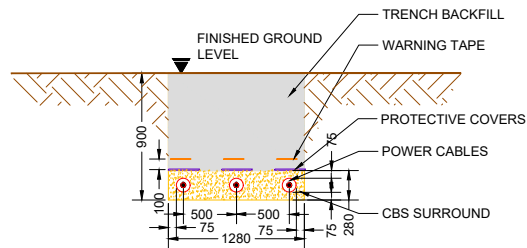
REV:

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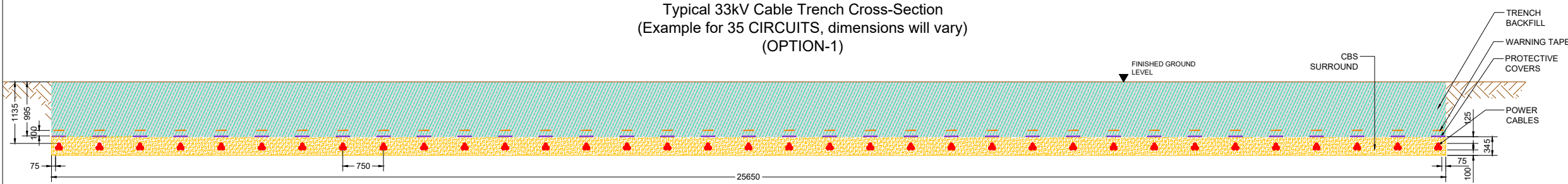
Typical 33kV Cable Trench Cross-section
(Example for 4 Circuits, dimensions will vary)



Typical 400kV Cable Trench Cross-section
(Example for single circuit)

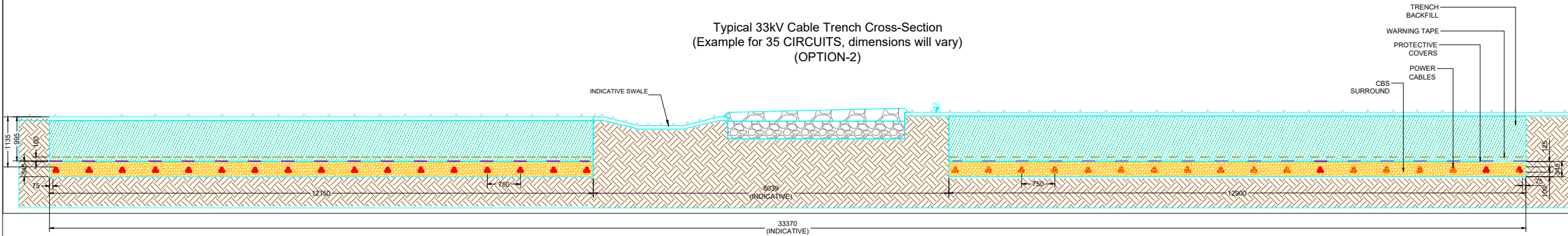


Typical 33kV Cable Trench Cross-Section
(Example for 35 CIRCUITS, dimensions will vary)
(OPTION-1)



NOTES:
1. THE DRAWING IS ISSUED FOR THE PLANNING PURPOSE ONLY NOT FOR CONSTRUCTION.
2. DIMENSIONS ARE IN MILLIMETER UNLESS STATED OTHERWISE.
3. ANY DISCREPANCY IN SCALE IS FOUND ON THIS DRAWING, WRITTEN DIMENSIONS GOVERN.

Typical 33kV Cable Trench Cross-Section
(Example for 35 CIRCUITS, dimensions will vary)
(OPTION-2)



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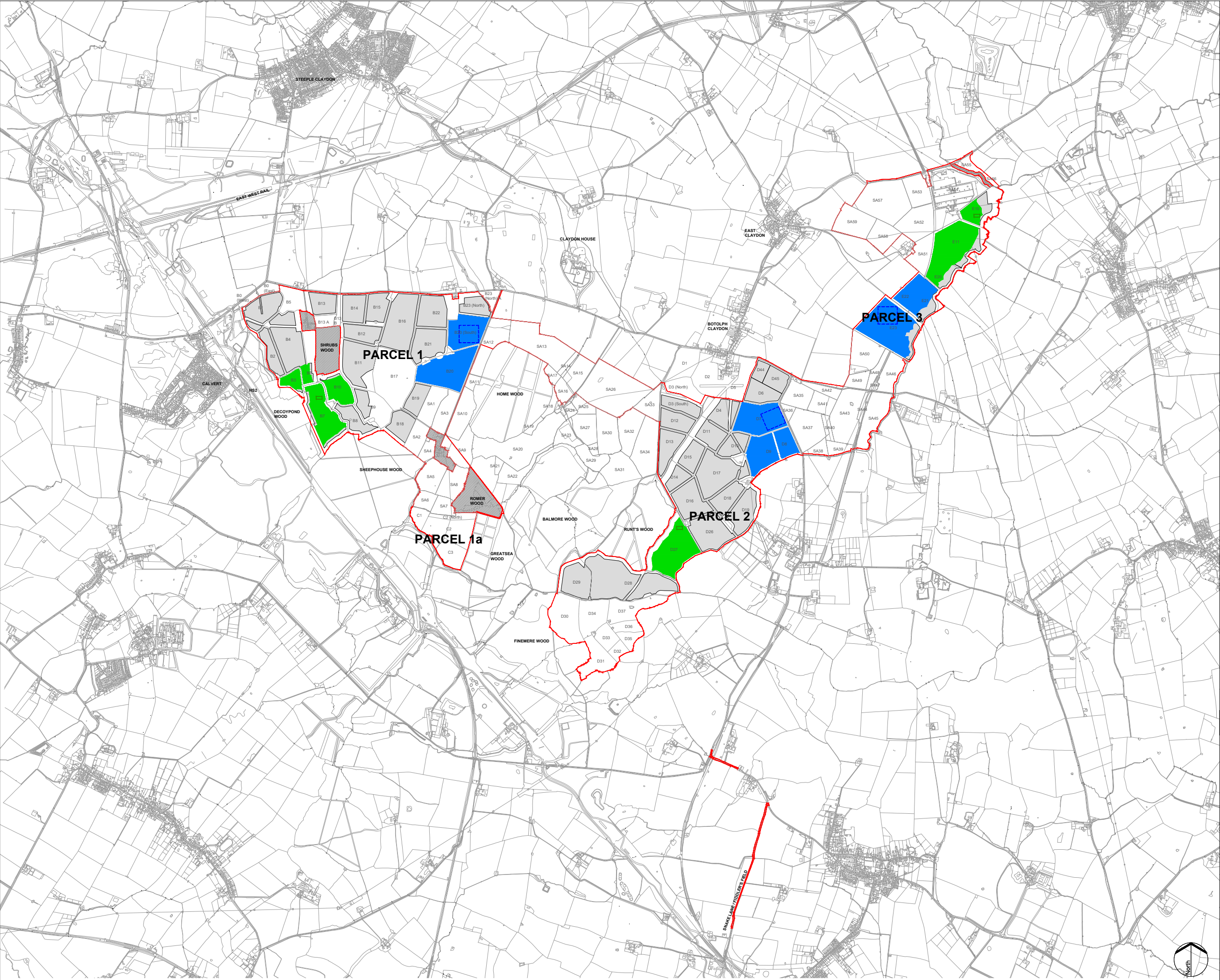
DOCUMENT:
ENVIRONMENTAL STATEMENT
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TITLE:
FIGURE 3.6: INDICATIVE CABLE
TRENCH SECTIONS

PINS REFERENCE NUMBER:
EN0101058/APP/6.3

SCALE : NTS

REV:
01



KEY:

- Order Limits
- Areas outside the Order Limits
- Indicative area for Solar PV development and/or other ancillary development
- Indicative locations suitable for the main construction compounds
- Indicative locations suitable for the satellite construction compounds
- Indicative main construction compound size (Approx 25,000m2)
- Indicative satellite construction compound size (Approx 1,250m2)

NOTES:

- The location of features shown are indicative only. Exact locations to be confirmed on site.
- Additional features may be present on site that have not been identified on the topographical plan.
- Parameter plan drawings are based on OS MasterMap information.

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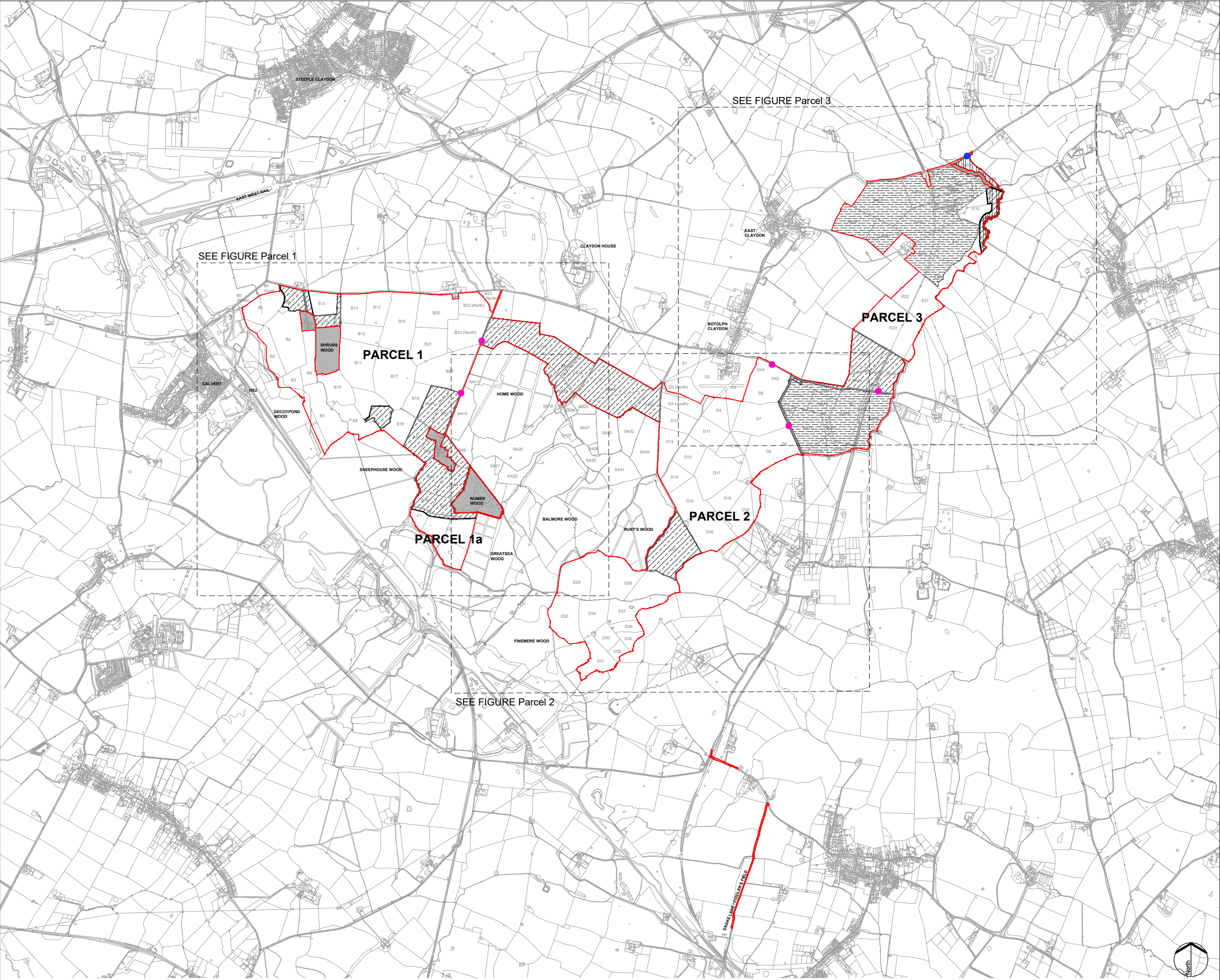


DOCUMENT:
ENVIRONMENTAL STATEMENT
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REGULATION 5(2)(a)

TITLE:
FIGURE 3.8
INDICATIVE LOCATION OF PRIMARY AND
SECONDARY CONSTRUCTION COMPOUNDS

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:30,000 @ A3	REV: 01
0 1km	



KEY:

Order Limits

Areas outside the Order Limits

Indicative construction and operational access

- NOTES:
1. Ordnance Survey (OS) MasterMap data adopted as the drawing base map.

2. The location of features shown are indicative only. Exact locations to be confirmed on site.

3. Additional features may be present on site that have not been identified on the OS data.

4. The following components are not shown on the parameter plan drawings within fields where solar PV development or other associated infrastructure is proposed: internal cable route corridors, boundary fencing and CCTV, inverter and transformers and switchgear compounds, internal access tracks, drainage, construction access and compounds.

5. The parameter plans are drawn to OS MasterMap data.

6. Proposed site access locations are required for both construction and operational use.

7. Internal access points that do not affect the public highway are not shown.

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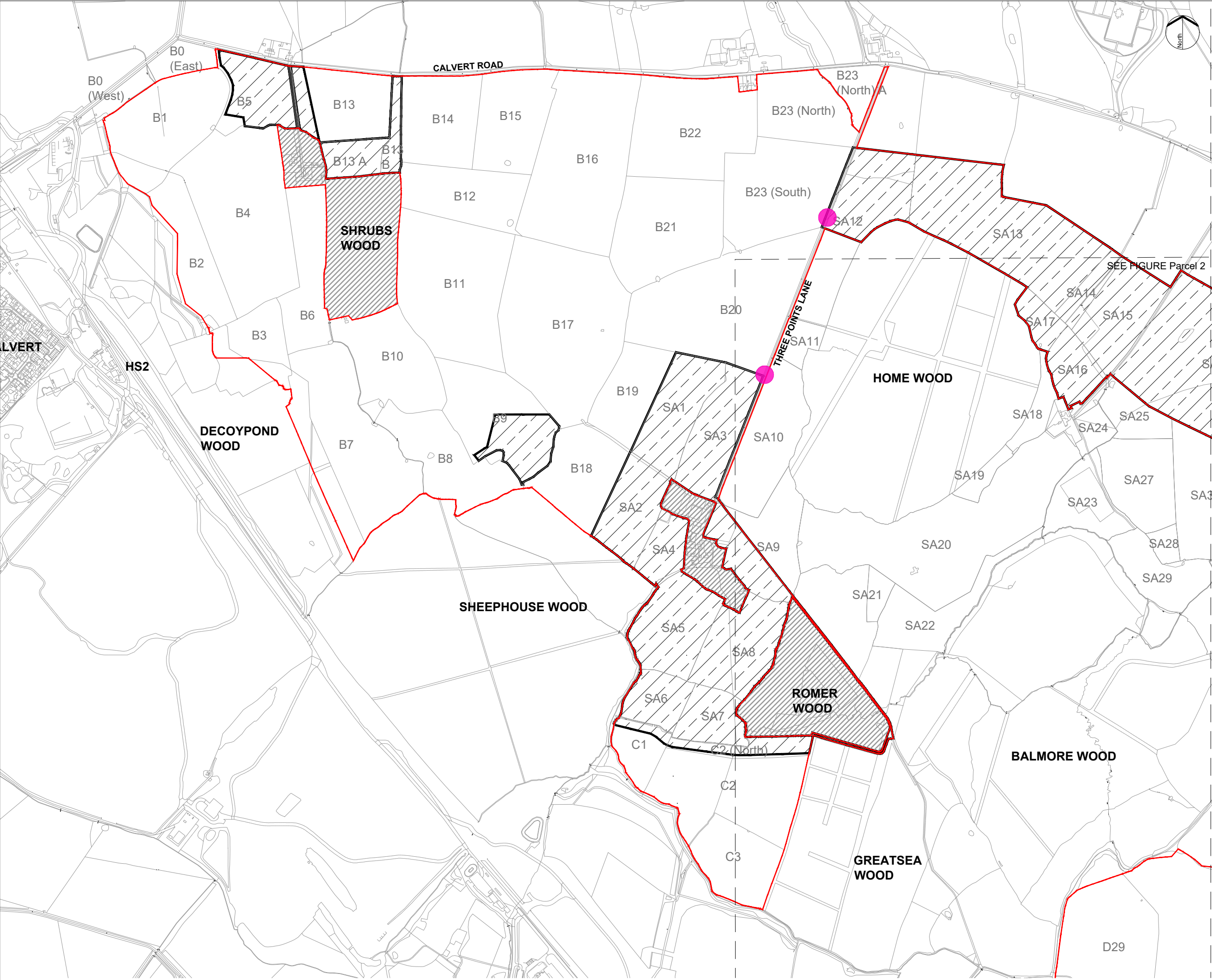
TITLE:
FIGURE 3.9A
INDICATIVE CONSTRUCTION AND OPERATIONAL
ACCESS - KEY PLAN

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:30,000 @ A3

01km

REV:
01

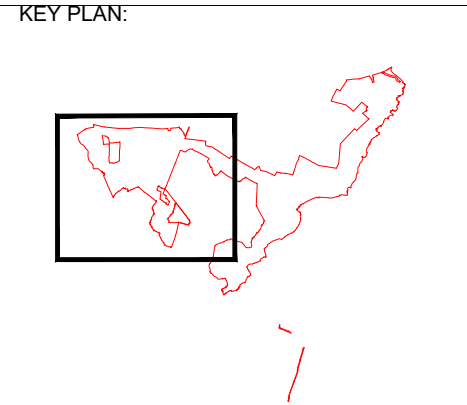


KEY:

- Order Limits
- Areas outside the Order Limits
- Internal access corridor
- Abnormal indivisible load (AIL) access corridor
- Construction cabling access corridor
- Indicative construction and operational access
- Indicative site access location from public highway
- Indicative access location for abnormal indivisible loads (AIL) from public highway

NOTES:

1. Refer to Figure 3.9A for drawing notes.



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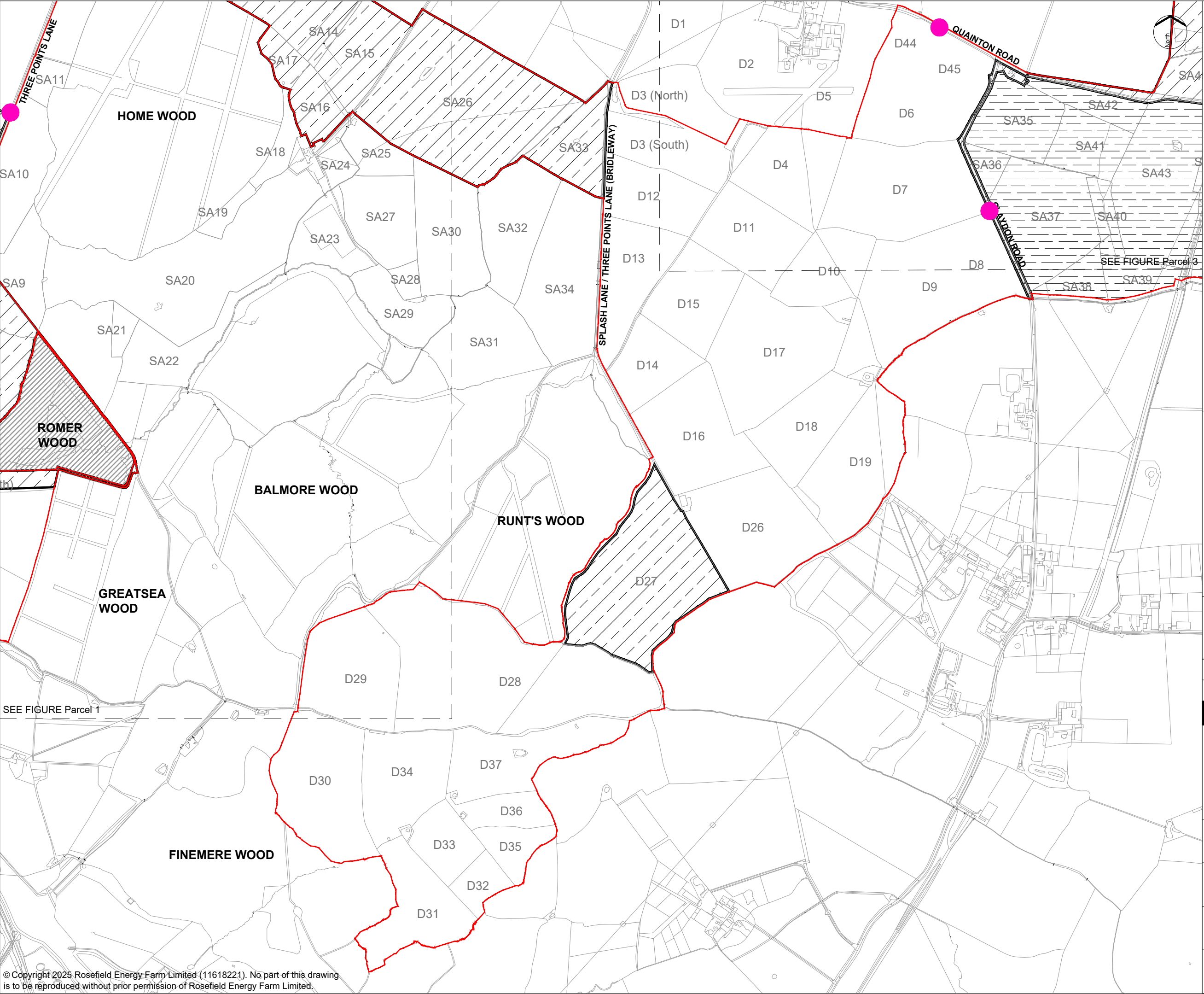
TITLE:
FIGURE 3.9B
INDICATIVE CONSTRUCTION AND OPERATIONAL
ACCESS - PARCEL 1 & 1A

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3

0500m

REV: 01



KEY:

Order Limits

Areas outside the Order Limits

Internal access corridor

Abnormal indivisible load (AIL) access corridor

Construction cabling access corridor

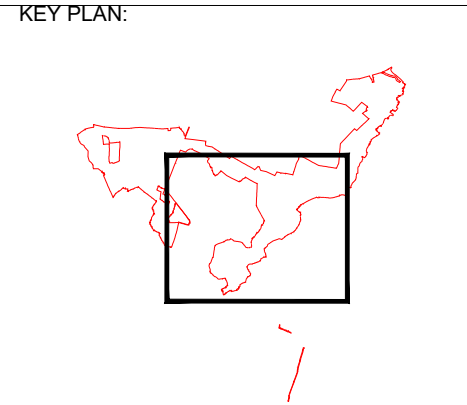
Indicative construction and operational access

Indicative site access location from public highway

Indicative access location for abnormal indivisible loads (AIL) from public highway

NOTES:

1. Refer to Figure 3.9A for drawing notes.



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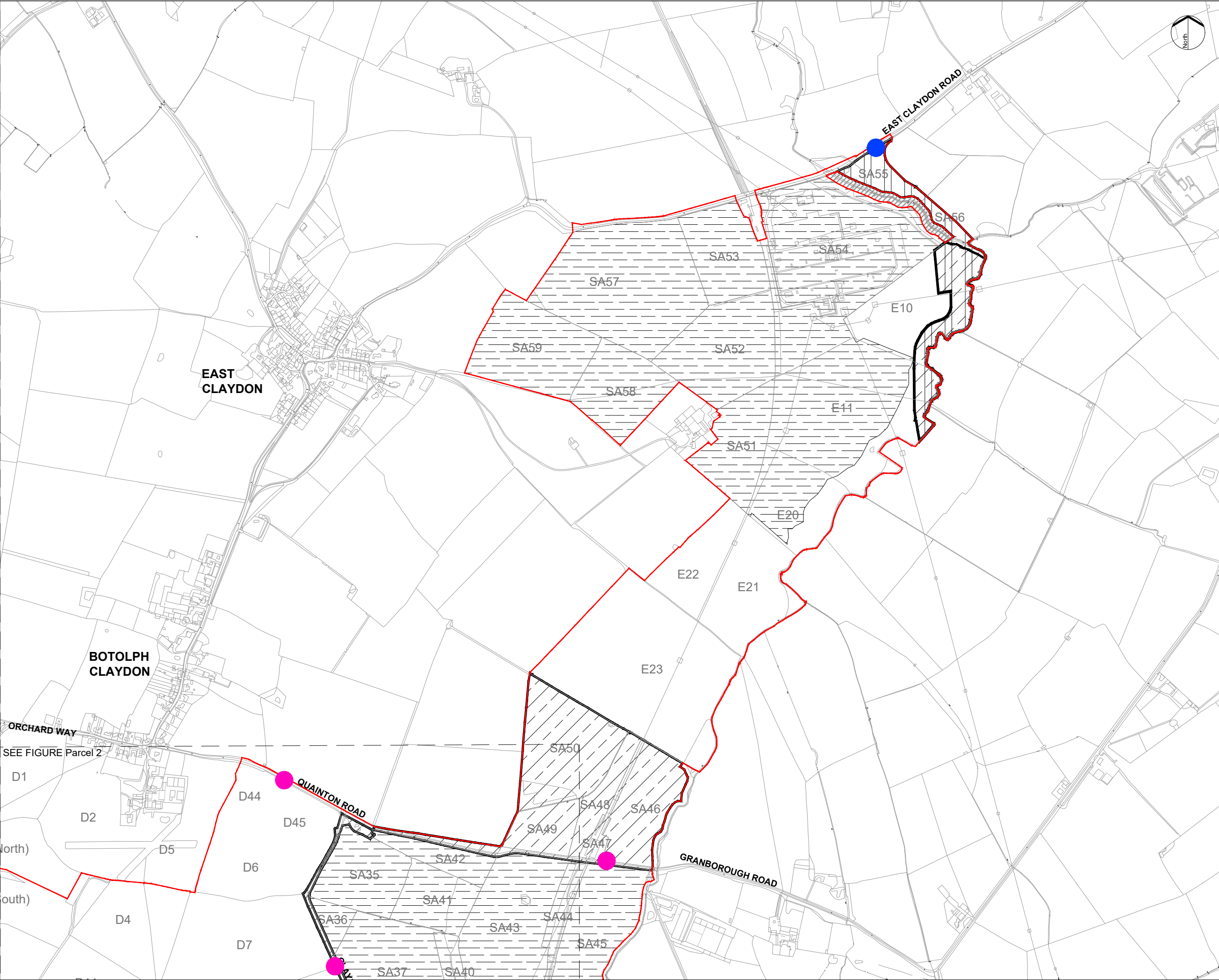
TITLE:
FIGURE 3.9C
INDICATIVE CONSTRUCTION AND OPERATIONAL
ACCESS - PARCEL 2

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3

0500m

REV: 01



KEY:

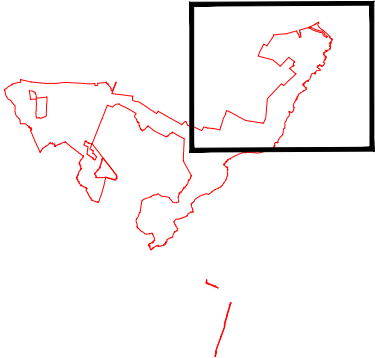
- Order Limits
- Areas outside the Order Limits
- Internal access corridor
- Abnormal indivisible load (AIL) access corridor
- Construction cabling access corridor

- Indicative construction and operational access
- Indicative site access location from public highway
 - Indicative access location for abnormal indivisible loads (AIL) from public highway

NOTES:

- Refer to Figure 3.9A for drawing notes.

KEY PLAN:



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TITLE:
FIGURE 3.9D
INDICATIVE CONSTRUCTION AND OPERATIONAL
ACCESS - PARCEL 3

PINS REFERENCE NUMBER:
EN010158/APP/6.3

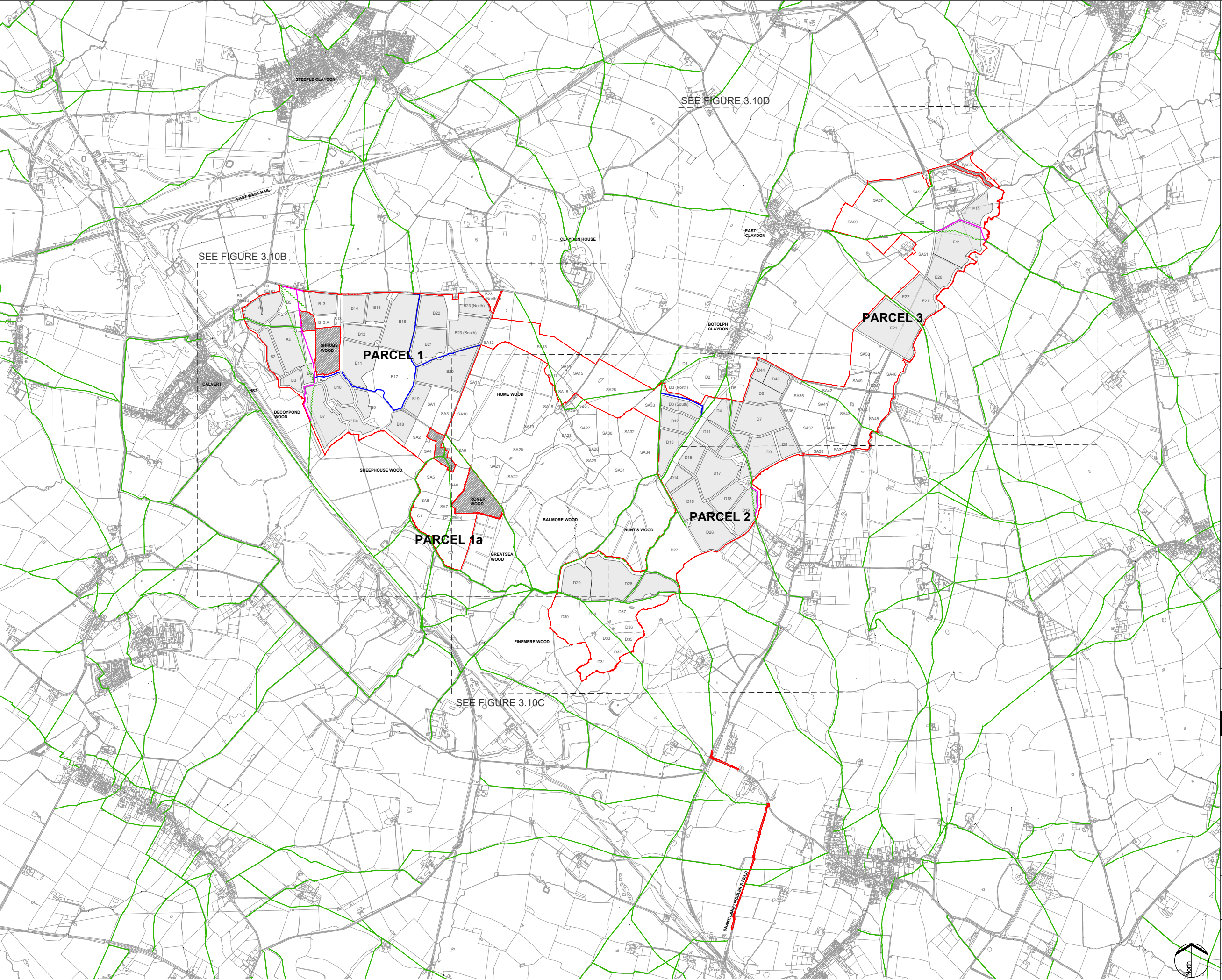
SCALE : 1:10,000 @ A3



REV:
01

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KEY:

- Order Limits
- Areas outside the Order Limits
- Indicative area for Solar PV development and / or other ancillary development

Existing routes

- Existing Public Right of Way
- Existing permissive footpath
- Existing Public Right of Way to be stopped up

Indicative proposed routes

- Proposed Public Right of Way Diversion
- Proposed permissive footpath

NOTES:

- The location of features shown are indicative only. Exact locations to be confirmed on site.
- Additional features may be present on site that have not been identified on the topographical plan.
- Parameter plan drawings are based on OS MasterMap information.
- Refer to Figure 3.5 Zonal Masterplan for indicative locations for components of Rosefield Solar Farm

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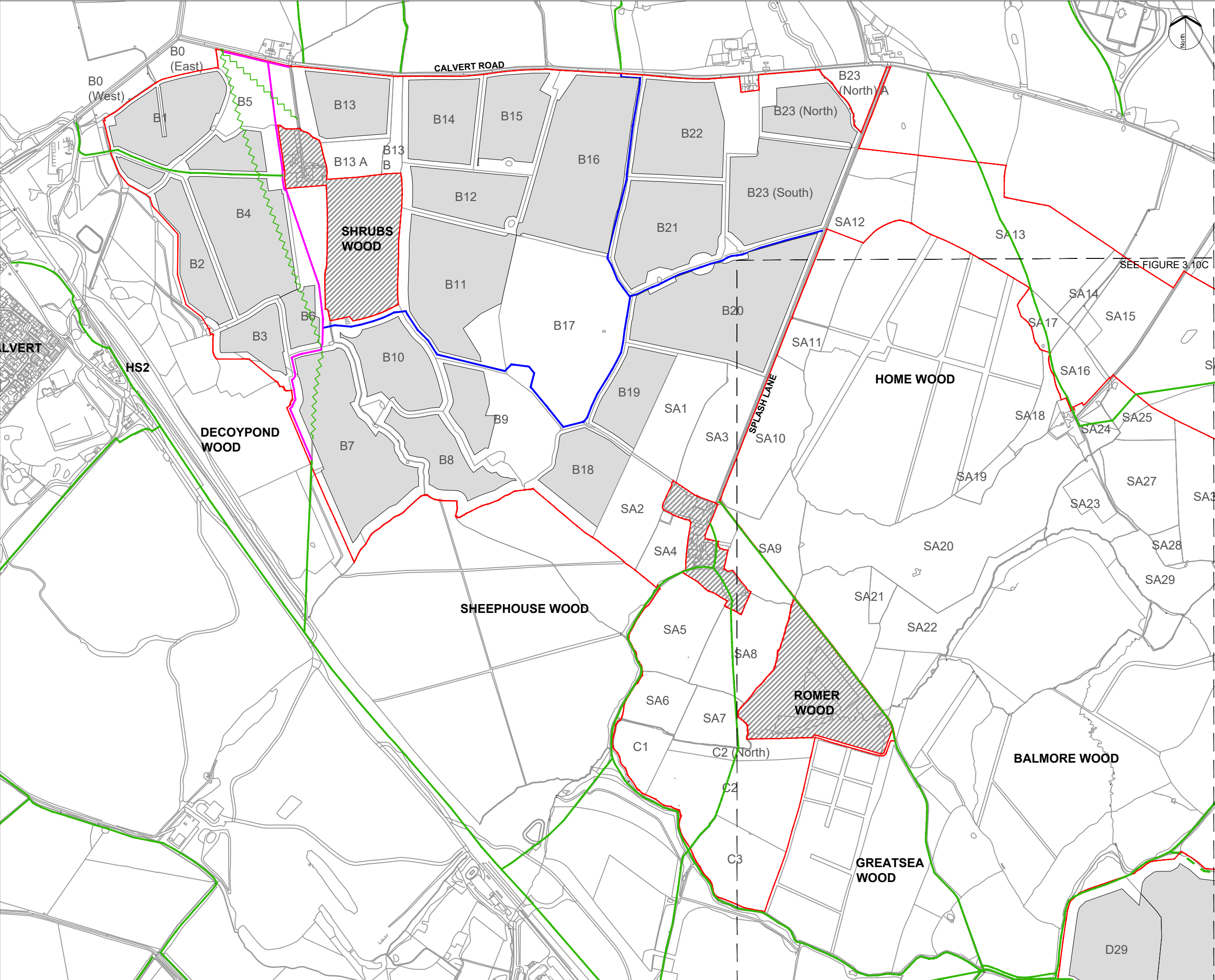
TITLE:
FIGURE 3.10A
EXISTING AND PROPOSED PUBLIC RIGHTS OF WAY
AND PERMISSIVE FOOTPATHS - KEY PLAN

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:30,000 @ A3

0 1km

REV: 01



KEY:

Order Limits

Areas outside the Order Limits

Indicative area for Solar PV development and / or other ancillary development

Existing routes

Existing Public Right of Way

Existing permissive footpath

Existing Public Right of Way to be stopped up

Indicative proposed routes

Proposed Public Right of Way Diversion

Proposed permissive footpath

NOTES:

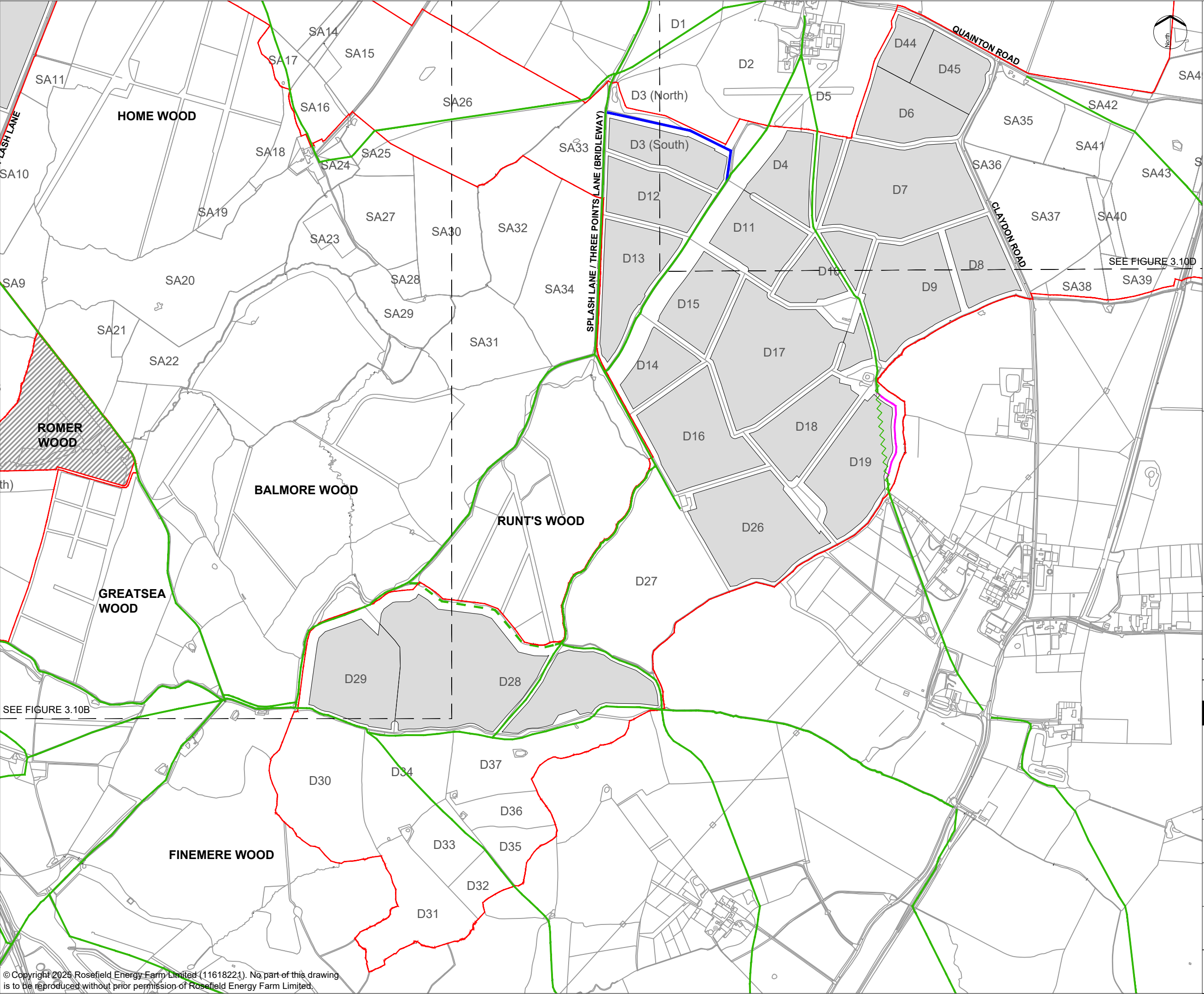
1. Refer to Figure 3.10A for drawing notes.

KEY PLAN:

Rosefield Solar Farm

SCALE : 1:10,000 @ A3

REV: 01



KEY:

Order Limits

Areas outside the Order Limits

Indicative area for Solar PV development and / or other ancillary development

Existing routes

Existing Public Right of Way

Existing permissive footpath

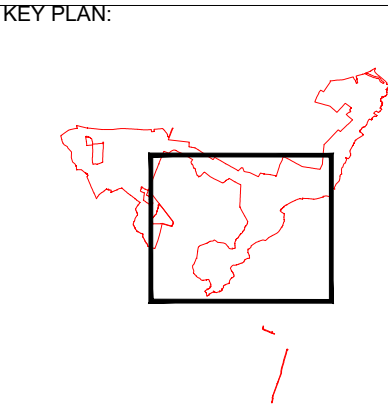
Existing Public Right of Way to be stopped up

Indicative proposed routes

Proposed Public Right of Way Diversion

Proposed permissive footpath

NOTES:
1. Refer to Figure 3.10A for drawing notes.



01	SEPT 2025	DCO SUBMISSION	LDA	LDA	EDF
REV	Date	Description	Drm	Chk	App

Rosefield Solar Farm



DOCUMENT:
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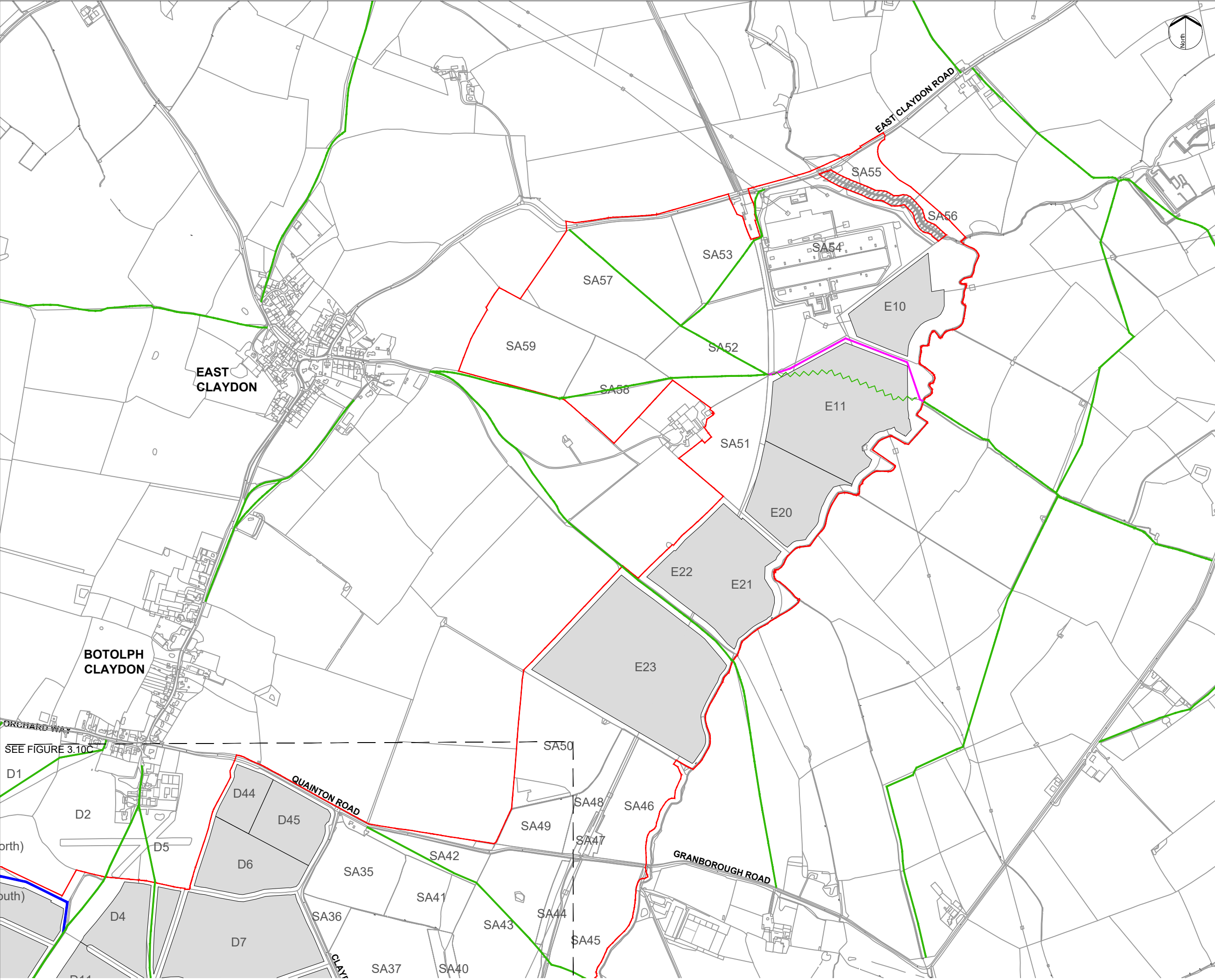
TITLE:
FIGURE 3.10C
EXISTING AND PROPOSED PUBLIC RIGHTS OF WAY
AND PERMISSIVE FOOTPATHS - PARCEL 2

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3



REV:
01



KEY:

Order Limits

Areas outside the Order Limits

Indicative area for Solar PV development and / or other ancillary development

Existing routes

Existing Public Right of Way

Existing permissive footpath

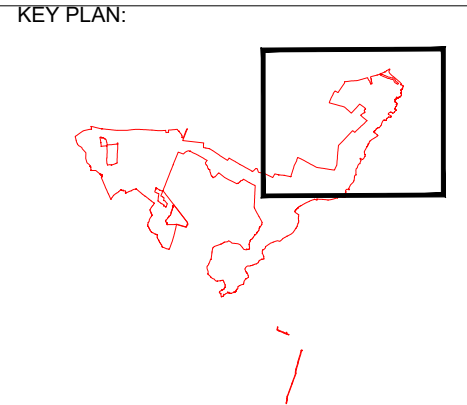
Existing Public Right of Way to be stopped up

Indicative proposed routes

Proposed Public Right of Way Diversion

Proposed permissive footpath

NOTES:
1. Refer to Figure 3.10A for drawing notes.



01	SEPT 2025	DCO SUBMISSION	LDA	LDA	EDF
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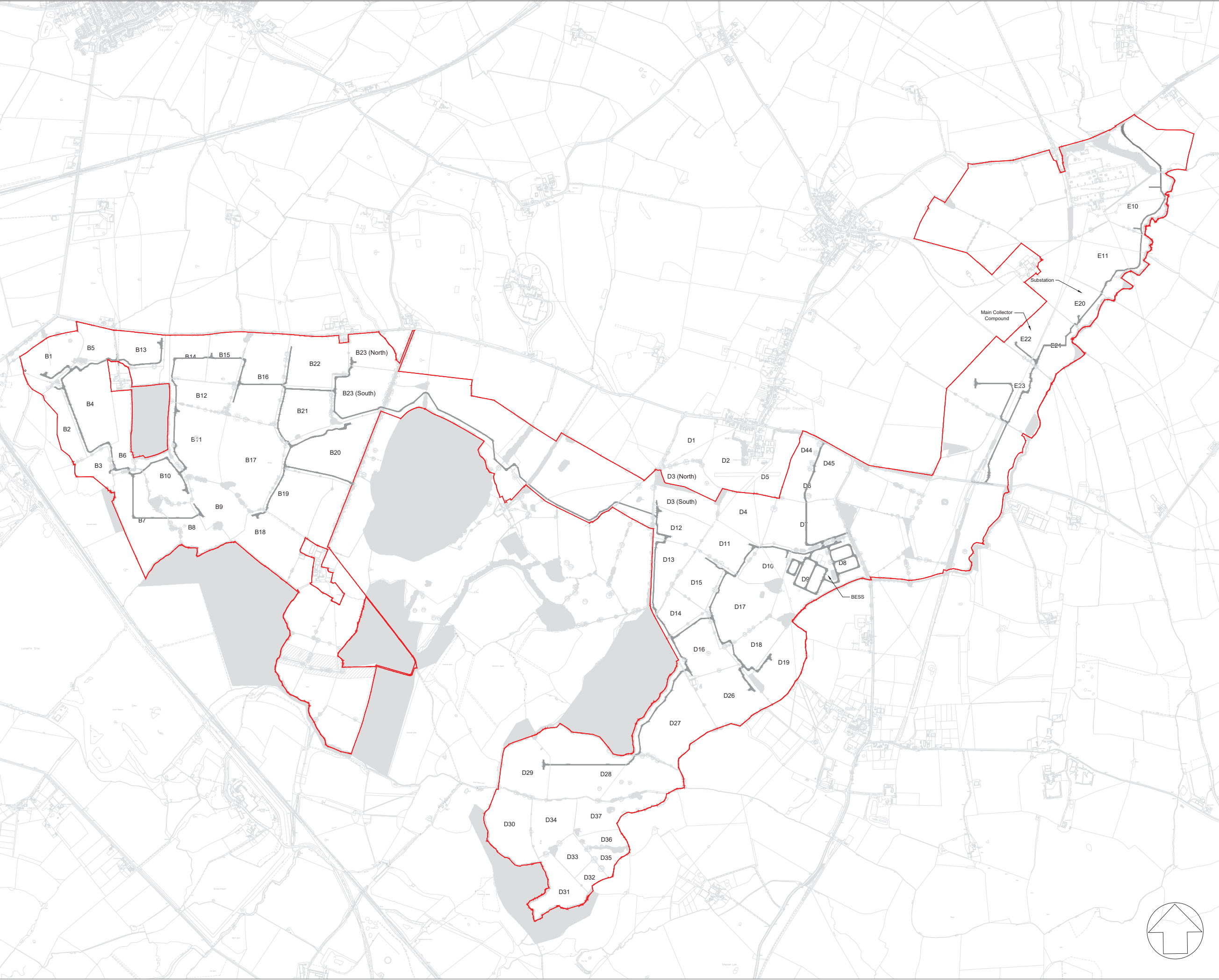
DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3: FIGURES
REGULATION 5(2)(a)

TITLE:
FIGURE 3.10D
EXISTING AND PROPOSED PUBLIC RIGHTS OF WAY
AND PERMISSIVE FOOTPATHS - PARCEL 3

PINS REFERENCE NUMBER:
EN010158/APP/6.3

SCALE : 1:10,000 @ A3

REV: 01



KEY:

Order Limits

Internal access tracks

NOTES:

- Drawing is for Planning Purposes only and not for construction.
- Only new internal access tracks shown. Existing internal tracks not shown on this drawing.
- Dimensions of access tracks are subject to detailed engineering.

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Rev	Date	Description	Drn	Chk	App

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DOCUMENT:
ENVIRONMENTAL STATEMENT VOLUME 3:
FIGURES REGULATION 5(2)(a)

TITLE:
FIGURE 3.11: INDICATIVE LOCATION OF INTERNAL
ACCESS TRACKS

PINS REFERENCE NUMBER:
EN0101058/APP/6.3

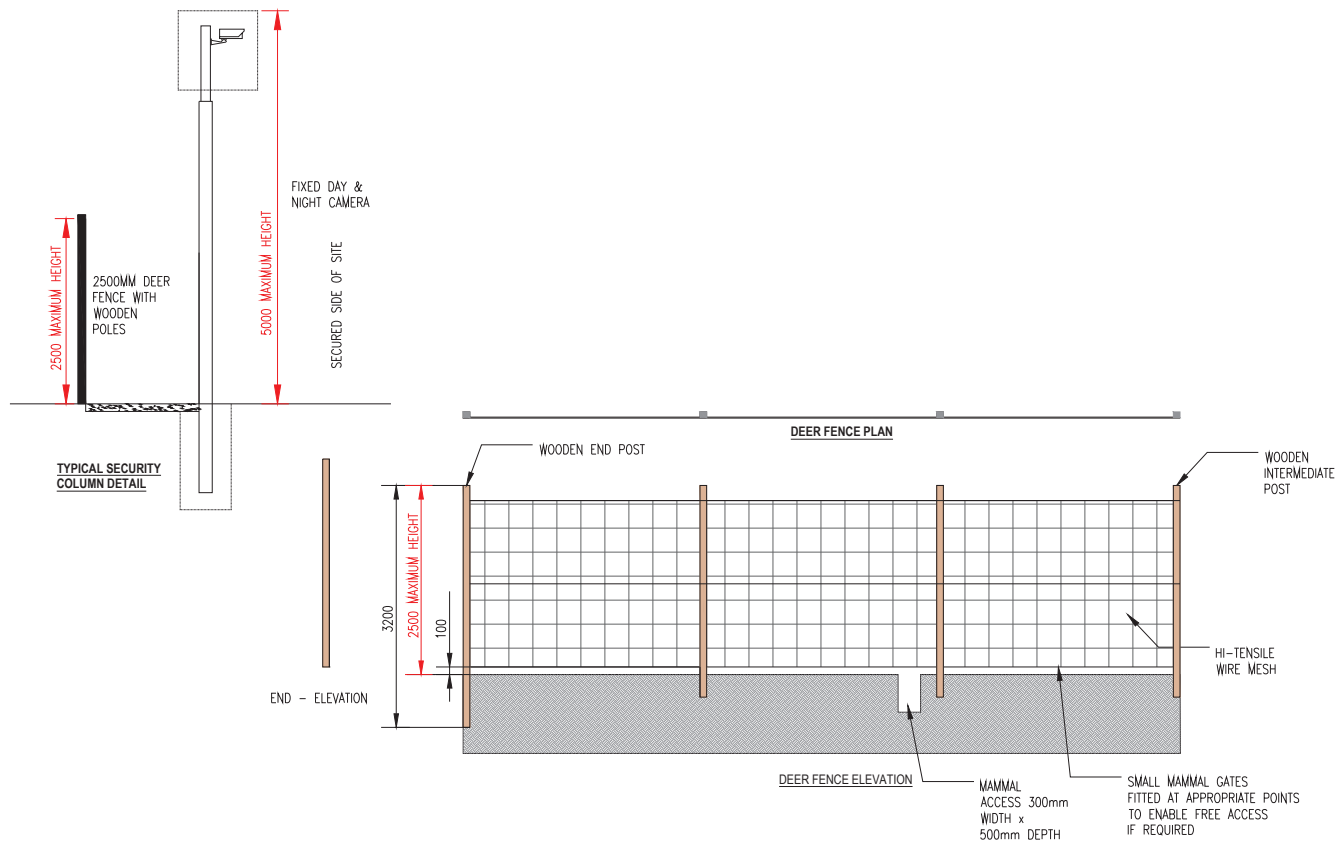
SCALE : 1:20000 @A3

0125250500

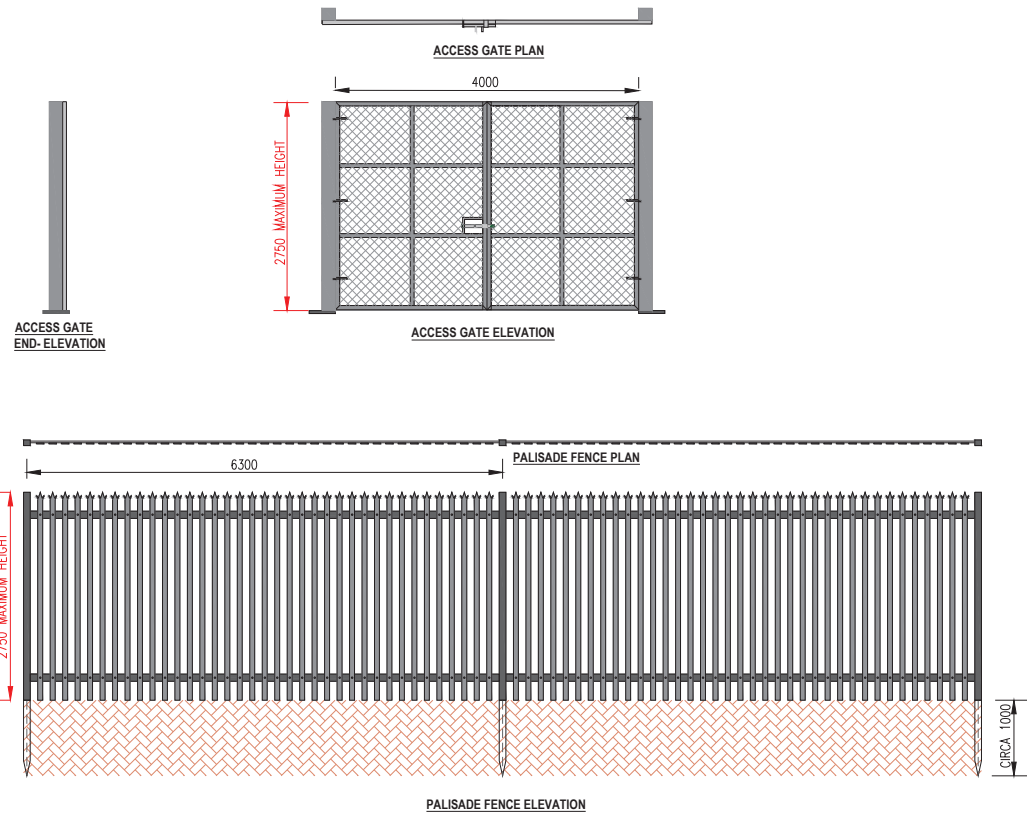
Meters

1:20000

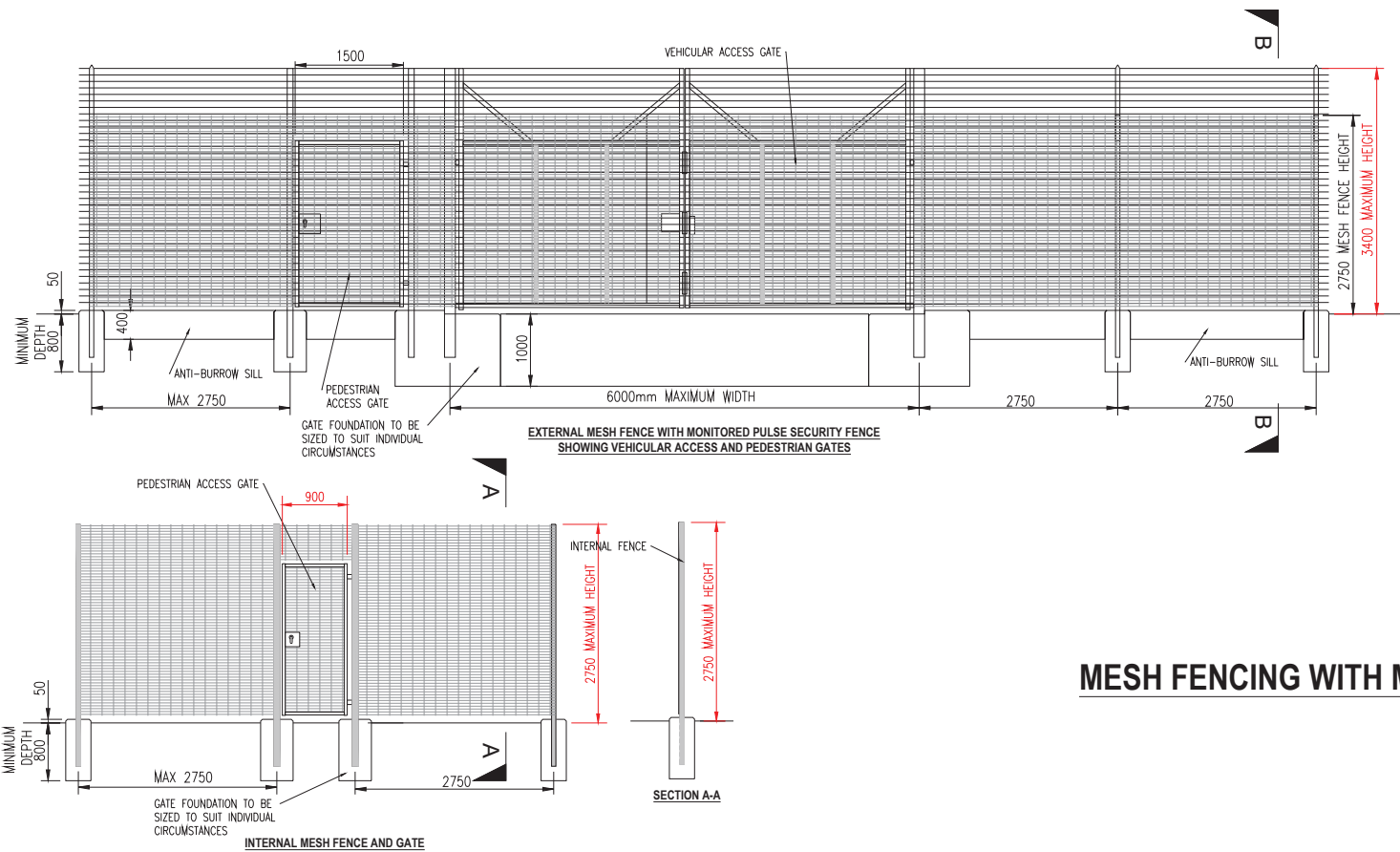
REV
01



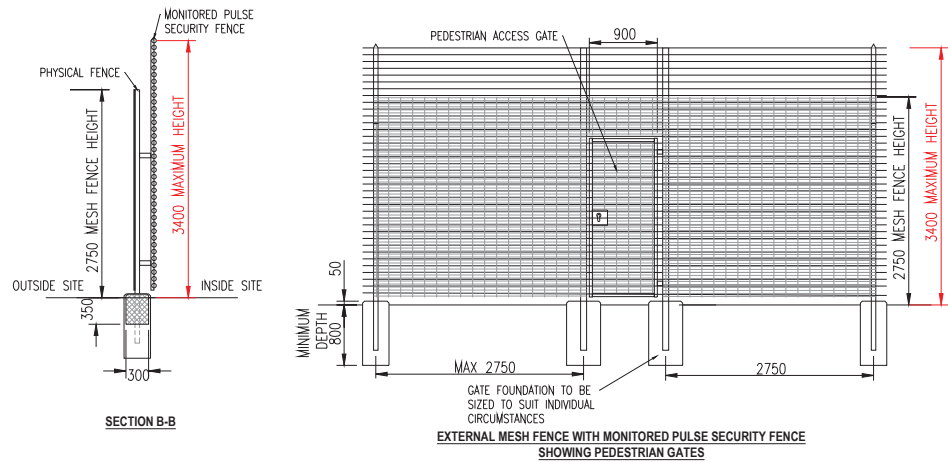
STANDARD DETAIL DEER FENCING AND
CCTV (SCALE 1:100)



PALISADE FENCING AND
ACCESS GATES (SCALE 1:100)



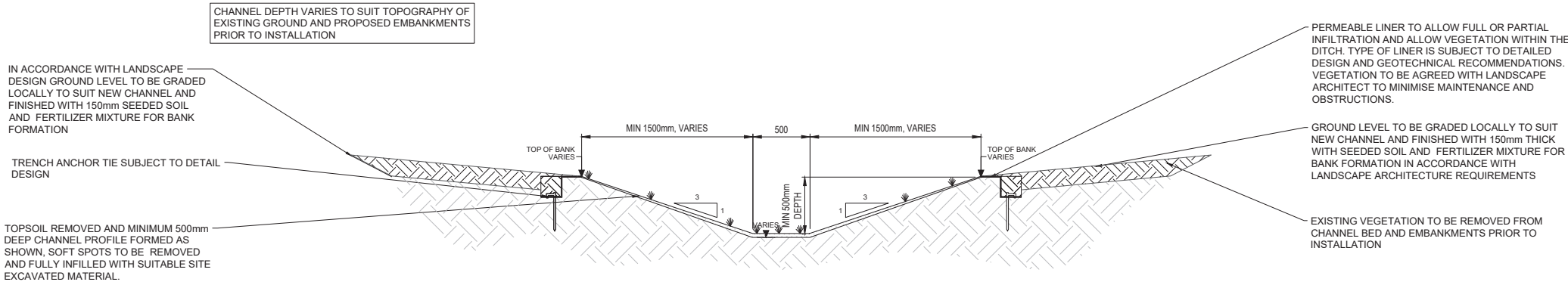
MESH FENCING WITH MONITORED PULSE FENCING LAYOUTS
(SCALE 1:100)



KEY:

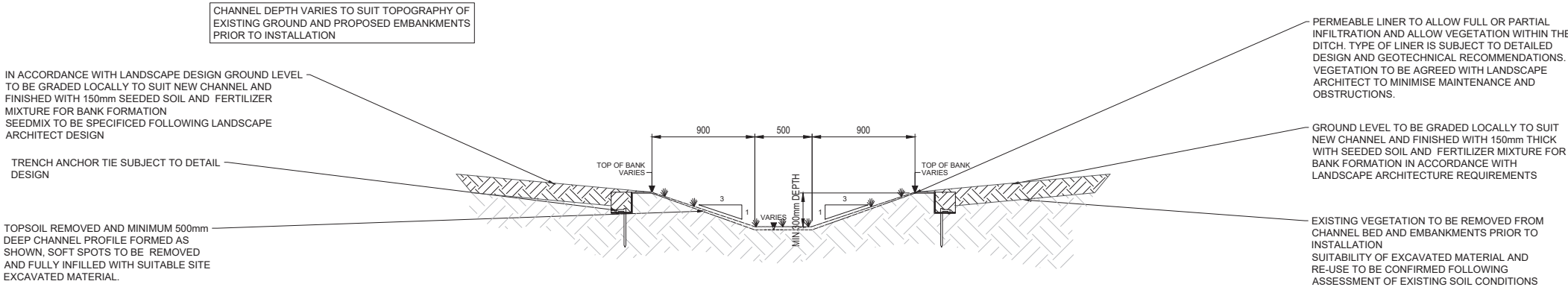
NOTES:

01	Sept 25	DCO SUBMISSION	JH	PA	PA
Rev	Date	Description	Drn	Chk	App
Rosefield Solar Farm					
					
ENVIRONMENTAL STATEMENT VOLUME 3: FIGURES REGULATION 5(2)(a)					
TITLE: FIGURE 3.12: TYPICAL SECURITY DETAILS					
PINS REFERENCE NUMBER: EN0101058/APP/6.3					
SCALE : 1:100 @ A3 					REV: 01



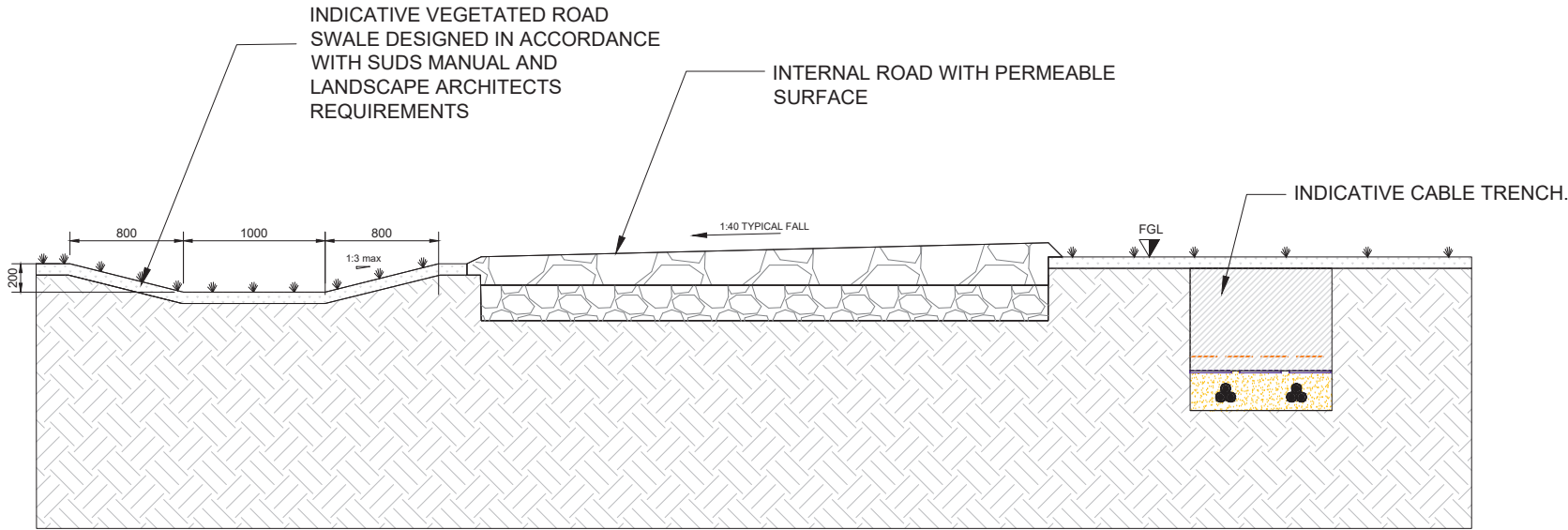
CUT-OFF DITCH TYPICAL TYPE A CROSS SECTION

SCALE 1: 25 @ A1
SCALE 1: 50 @ A3



CUT-OFF DITCH TYPICAL TYPE B CROSS SECTION

SCALE 1: 25 @ A1
SCALE 1: 50 @ A3



TYPICAL INTERNAL ROAD SWALE

SCALE 1: 25 @ A1
SCALE 1: 50 @ A3

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) AND ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD) UNLESS STATED OTHERWISE.
 2. DIMENSIONS AND LEVELS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF THE WORKS.
 3. DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION
 4. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE FOLLOWING:

RSFD-05-DR-00100
RSFD-05-DR-00101
RSFD-05-DR-00102
 5. TYPICAL SWALE AND CUT OFF DITCHES DETAILS SHOWN INDICATIVELY; LOCATION, TYPE AND SIZE OF SWALES TO BE DETERMINED FOLLOWING DETAIL DESIGN, BASED ON CATCHMENT SIZE AND CHARACTERISTICS

REV01	Sept 2025	DCO SUBMISSION	RP	AM	VM
App	Date	Description	Drn	Chk	App

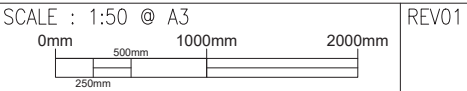
Rosefield Solar Farm



DOCUMENT:
ENVIRONMENTAL STATEMENT
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REGULATION 5(2)(a)

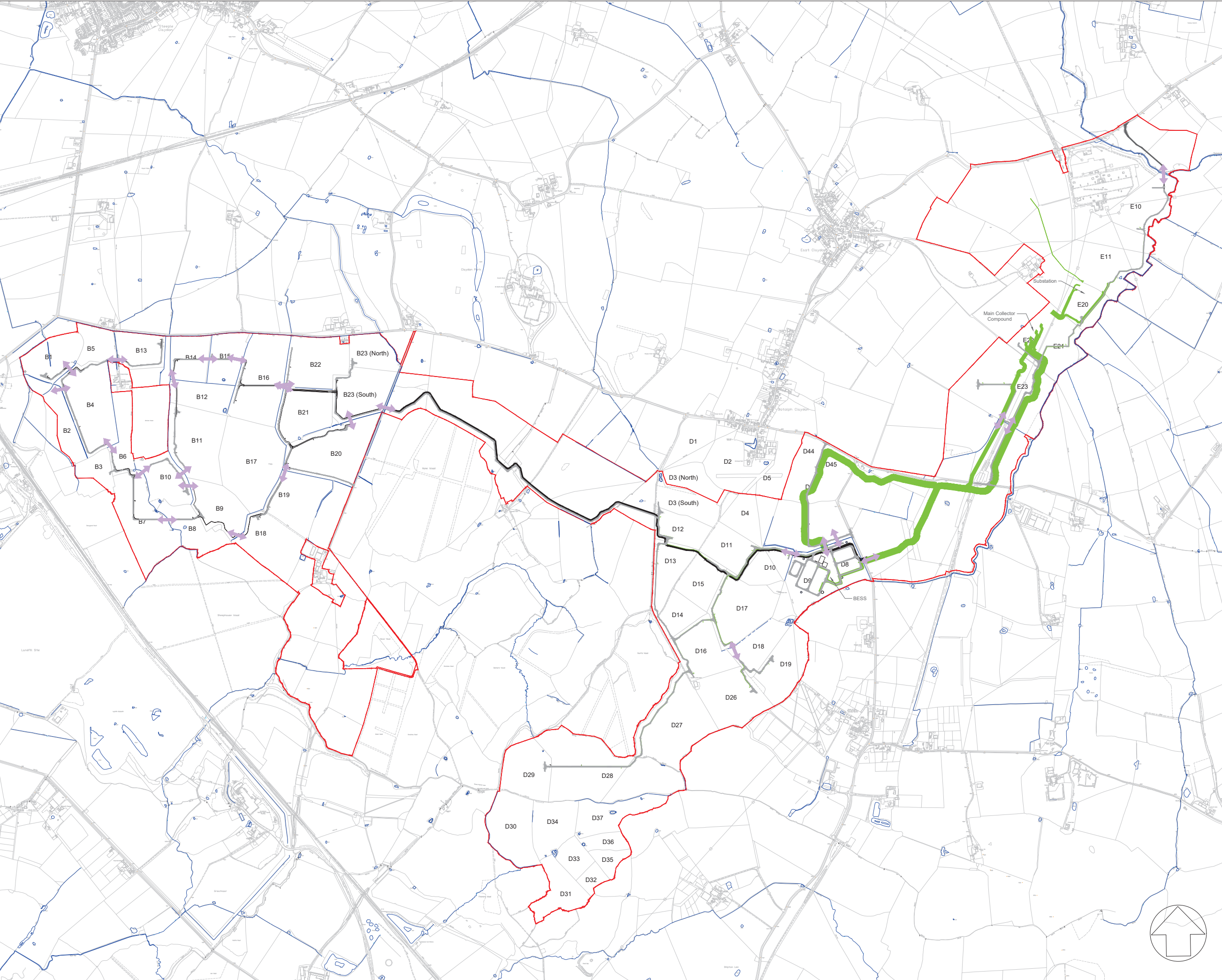
TITLE:
FIGURE 3.13: INDICATIVE DRAINAGE CROSS SECTIONS

PINS REFERENCE NUMBER:
EN010158/APP/6.3



REV01

NOTE: FOR INFORMATION ONLY, NOT FOR CONSTRUCTION



KEY:

- Order Limits
- Indicative internal access tracks
- Existing waterbody
- Indicative cable crossings and cable corridors
- Indicative watercourse and ditch crossing location

- NOTES:
- DRAWING IS FOR PLANNING PURPOSES ONLY AND NOT FOR CONSTRUCTION.
 - Only new internal access tracks shown. Existing internal tracks not shown on this drawing.
 - Only indicative crossing points with existing waterbodies are shown. Crossings with any proposed drainage features, such as swales and cut-off ditches, are shown on the Outline Drainage Strategy drawings.

REV01	Sept 2025	DCO Submission	AM	AM	GS
App	Date	Description	Drn	Chk	App

Rosefield Solar Farm



DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3: FIGURES
REGULATION 5(2)(a)

TITLE:
FIGURE 3.14 - INDICATIVE WATERCOURSE AND DITCH CROSSING LOCATIONS

PINS REFERENCE NUMBER:
EN0101058/APP/6.3

SCALE : 1:20000 @ A3

REV01

