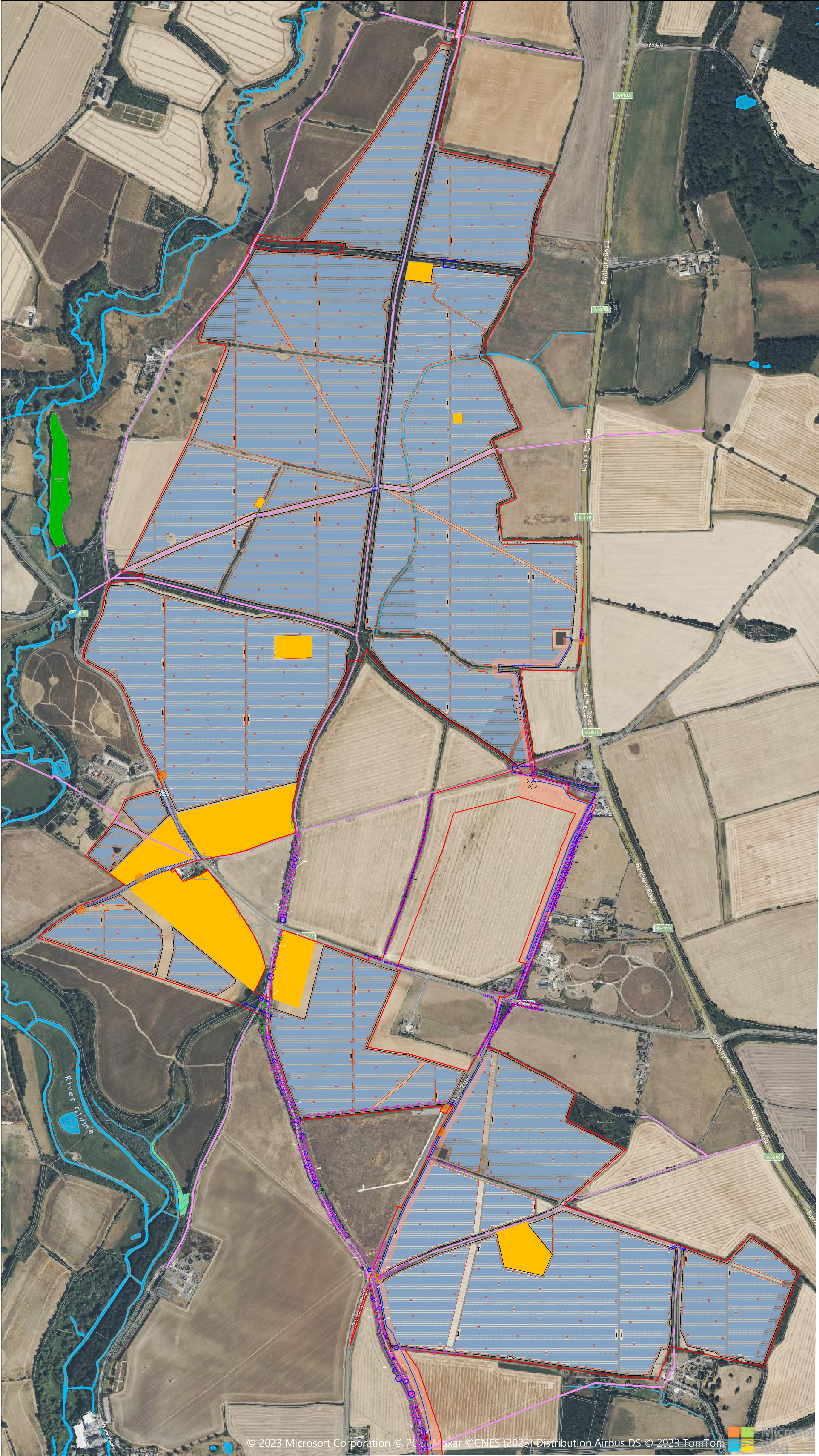




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Key

Order Limits

Tree with numbered reference. Canopy spread and coloured BS5837:2012 tree quality category as shown below.

Vegetation group with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

Indicative Root Protection Area (RPA). Calculated in accordance with Section 4.6 - BS5837:2012, using the following average diameters:

- Small Trees: 250mm
- Medium Trees: 500mm
- Large Trees: 750mm

Some trees were given more specific diameters where diameters were too small/large to fit these groups.

Designated Ancient Woodland (as per Natural England ancient woodland inventory, via open data publication)

Ancient tree buffer (15m offset)
(as per standing advice produced by Forestry England and Natural England)

Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Forestry England and Natural England)

Proposed cable route.

NOTES:

- Refer to RPS Tree Survey Report & Schedule for further details.
- Survey based on a visual inspection from the ground and is not intended as a full arboricultural inspection.
- Plan produced in accordance with recommendations set out in BS 5837:2012 - 'Trees in Relation to design, demolition and construction'.
- Due to the legal protection afforded to breeding birds vegetation removal should not take place during the bird nesting period, generally, although not restricted to, March - August inclusive.
- Survey based upon National Tree Map data purchased by RPS in November, 2022.

Scale Bar

0m 10m 20m

C	Survey extended to cover revised cable route and Sub Stations	SH	DC	30/05/2025
B	Red Line Boundary Change	RC	DC	07/11/2024
A	Red Line Boundary Change	RC	DC	23/10/2023
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Title Proposed Site Layout
Northern Section
Section 1 of 5

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Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

Woodland with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

BS 5837:2012 Tree Quality Categories - Table 1

Category A - High quality

Category B - Moderate quality

Category C - Low quality

Category U - Unsuitable for retention

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Veteran tree buffer (15 x stem Ø)
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Proposed cable route.

NOTES:

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Scale Bar

C	Survey extended to cover revised cable route and Sub Stations	SH	DC	30/05/2025
B	Red Line Boundary Change	RC	DC	07/11/2024
A	Red Line Boundary Change	RC	DC	23/10/2023
Rev	Description	By	CB	Date

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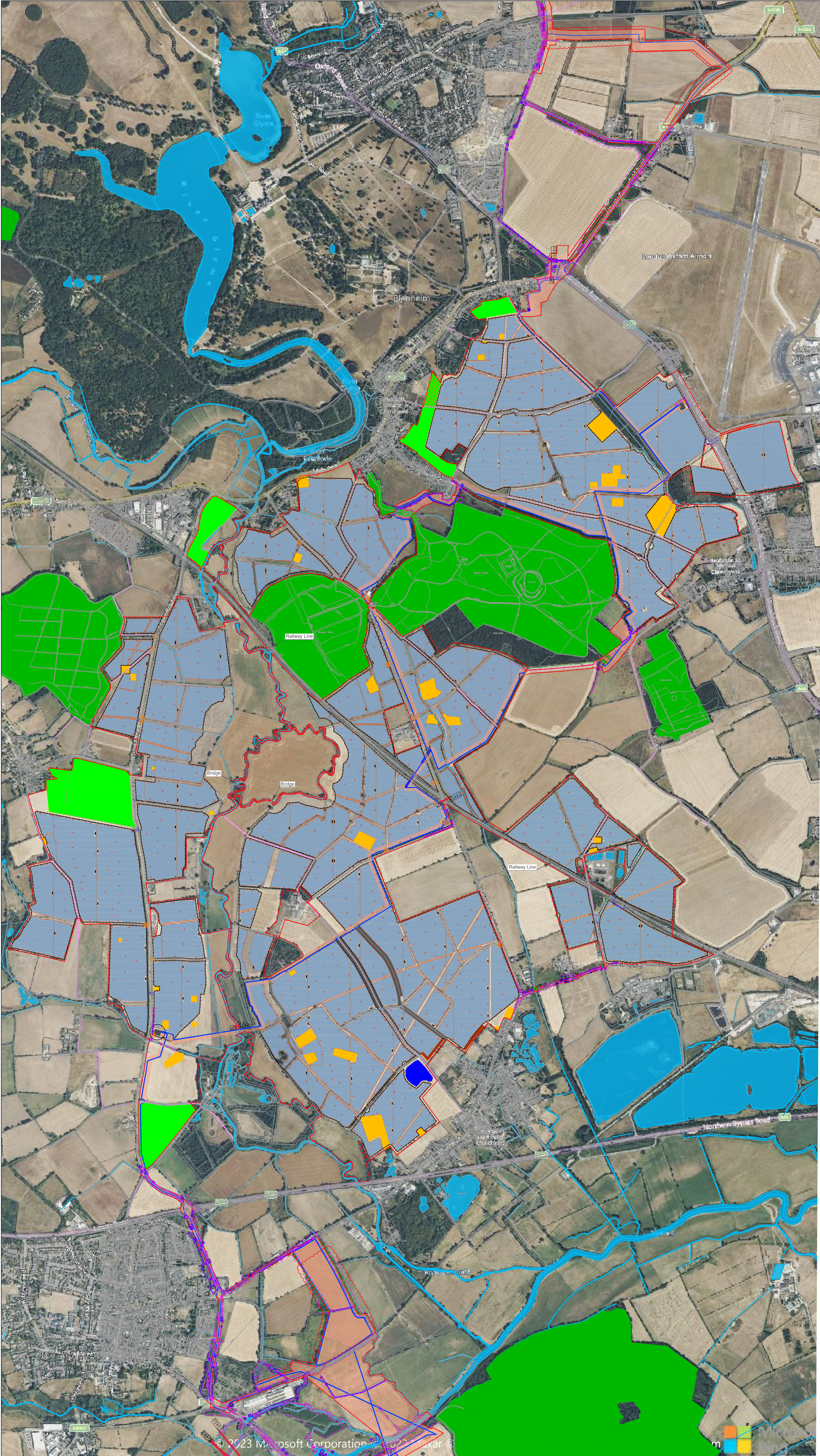
Title Proposed Site Layout
Upper Cable Route
Section 2 of 5

Status	Drawn By	PM/Checked by
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Hedge with numbered reference. Canopy extents and coloured BS5837:2012 tree quality category as shown below.

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Category C - Low quality

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Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)

Proposed cable route.

NOTES:

- Refer to RPS Tree Survey Report & Schedule for further details.
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Scale Bar

0m 10m 20m

C	Survey extended to cover revised cable route and Sub Stations	SH	DC	30/05/2025
B	Red Line Boundary Change	RC	DC	07/11/2024
A	Red Line Boundary Change	RC	DC	23/10/2023
Rev	Description	By	CB	Date

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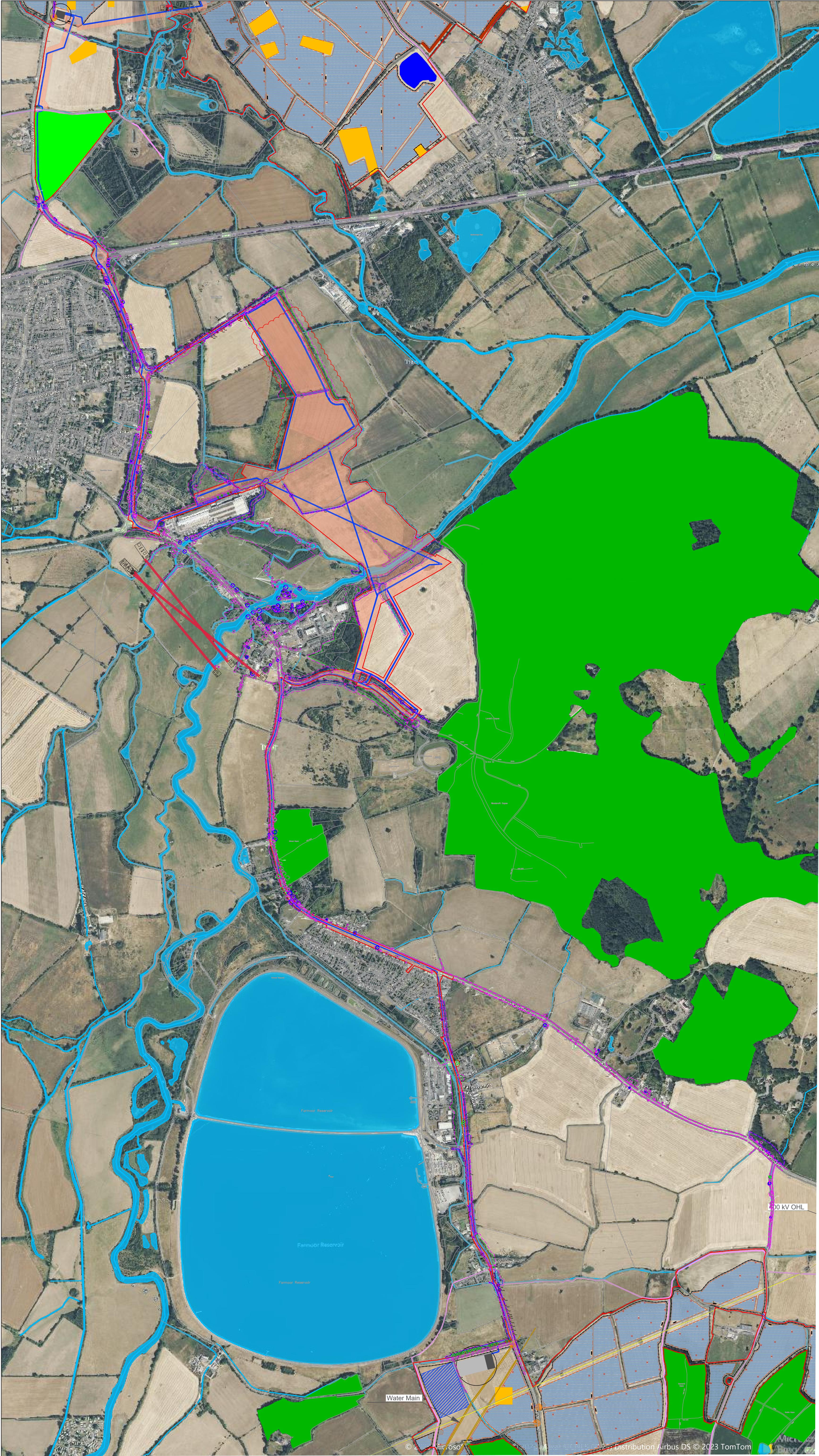
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Middle Section
Section 3 of 5

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Veteran tree buffer (15 x stem Ø)
(as per standing advice produced by Forestry England and Natural England)

Proposed cable route.

NOTES:

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Scale Bar

C	Survey extended to cover revised cable route and Sub Stations	SH	DC	30/05/2025
B	Red Line Boundary Change	RC	DC	07/11/2024
A	Red Line Boundary Change	RC	DC	23/10/2023
Rev	Description	By	CB	Date

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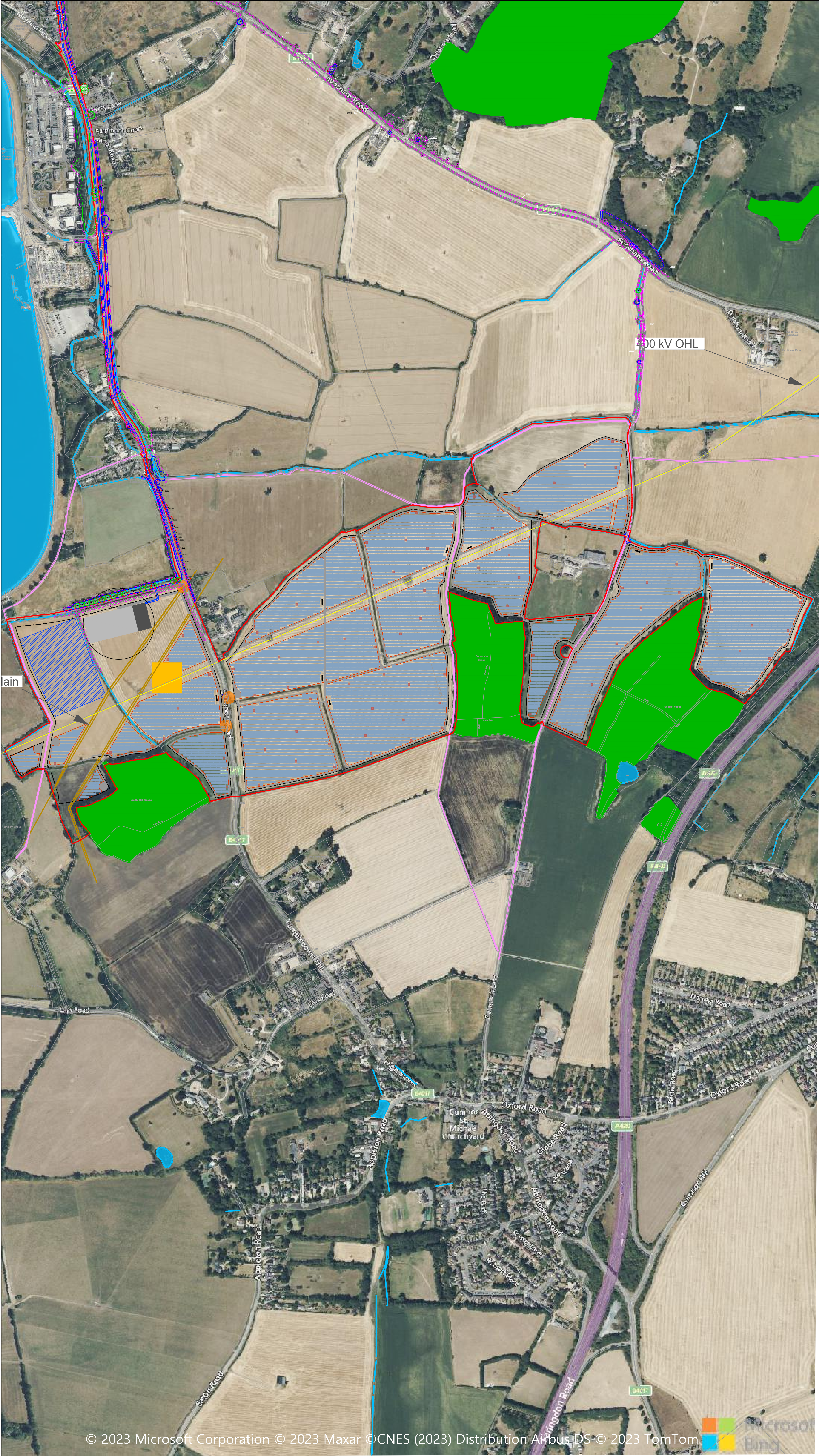
Title Proposed Site Layout
Lower Cable Route
Section 4 of 5

Status	Drawn By	PM/Checked by
For Information	RC	DC

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Veteran tree buffer (15 x stem Ø) (as per standing advice produced by Forestry England and Natural England)

Proposed cable route.

NOTES:

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Scale Bar

0m 10m 20m

C	Survey extended to cover revised cable route and Sub Stations	SH	DC	30/05/2025
B	Red Line Boundary Change	RC	DC	07/11/2024
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Title Proposed Site Layout
Southern Section
Section 5 of 5

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4631	Custom	July 2022

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745	C

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Appendix C

Tree Protection Protocol



Limit of Tree Protection Protocol:		20m
Tree Size	Root Protection Area (RPA)	Tree Proximity Zone (TPZ)
Hedges	3m	8m
Small Trees (<250mm diameter)	3m	8m
Medium Trees (251-500mm diameter)	6m	11m
Large Trees (501-750mm diameter)	9m	14m
XL - Trees (>751mm diameter)	12m	17m

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Tree Protection Protocol

Step1: Are you working within 20m of trees?



Step 2: Assign RPA & TPZ (See inset table).



Step 3:Follow adjacent Flowchart.



Step 4: Apply selected Scenario to site.

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Title Tree Protection Protocol
Tree Protection Flowchart

Status For Planning Drawn By RC PM/Checked by DC

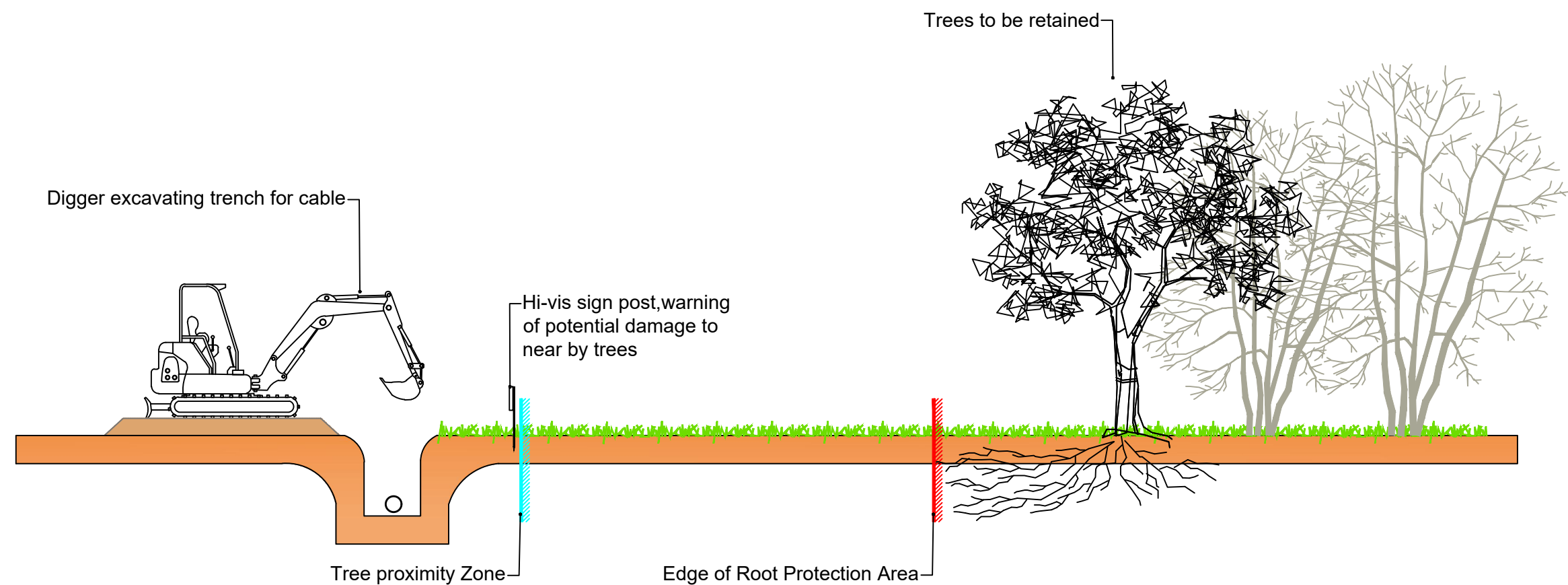
Job Ref JSL4631 Scale @ A2 NTS Date Created July 2023

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METHODOLOGY

- 1.1
- As this work and work access has been deemed to all be outside of any Tree Proximity Zones, tree protection fencing has been deemed to be unnecessary.
- 1.2
- However, in order to ensure that operatives on site are aware of the need to remain outside of the Tree Proximity Zone, warning signs will be placed at 10m intervals along the edge of the Tree Proximity Zone.
- 1.3
- These signs should be at least A4 in size, weatherproof and attached to an appropriate backing with attached stake. Signs must be replaced as necessary should they be removed or become illegible. See inset for signage detail.
- 1.4
- These signs shall be erected before any work begins and remain in situ for the entire duration of works.
- 1.5
- All further guidance contained within the Arboricultural Method Statement should still be followed throughout the coarse of construction.



Scenario 1

Works Outside Tree Proximity Zone

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Project

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Title

Tree Protection Protocol
Scenario 1

Status

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PM/Checked by

DC

Job Ref

JSL4631

Scale @ A2

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Date Created

July 2023

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METHODOLOGY

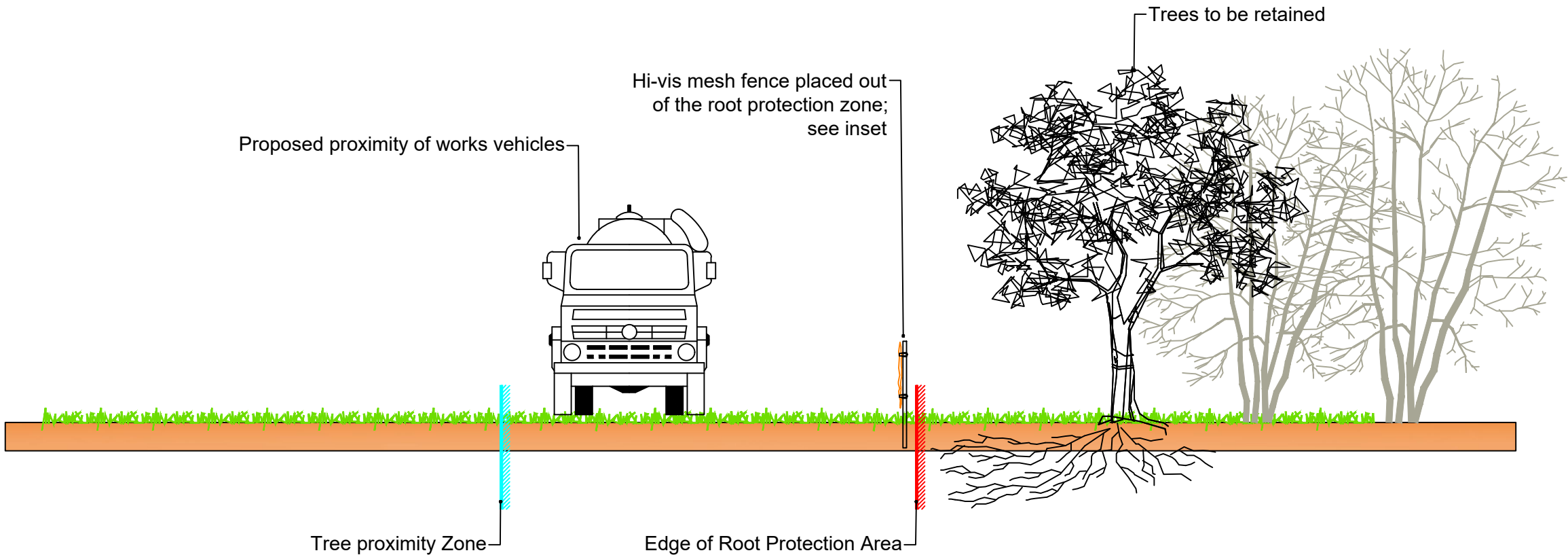
- 2.1
- Where site access will pass through any Tree Proximity Zones hi-viz mesh fencing shall be used in order to denote boundary of any retained trees RPAs, ensuring that works access remains outside of these.
- 2.2
- This fencing shall be erected before any work begins and remain in situ for the entire duration of works.
- 2.3
- All further guidance contained within the Arboricultural Method Statement should still be followed throughout the coarse of construction.

Fencing Specification

- 2.4
- Fencing should be constructed using 1m high, heavy duty hi-vis barrier mesh, erected and fitted to metal poles, timber stakes or railway pins driven into the ground at regular intervals. See inset.
- 2.5
- Care will be taken in the installation to ensure no contact of ground steaks is made with major roots over 25mm diameter.
- 2.6
- Signs detailing the purpose of the protective fencing and visual barriers shall be attached to the fencing/ barriers at 10m intervals. Such signs will be weatherproof and shall be substantially in the form of the specimen provided in the Arboricultural Method Statement and Inset.
- 2.7
- Signs must be replaced as necessary should they be removed or become illegible.

Scenario 2

Accessing Work Sites Through Tree Proximity Zone



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VISUAL TREE PROTECTION BARRIER

Secondary tree protection barrier (Not to scale)

- To identify trees and vegetation not immediately adjacent to construction works.
- 1m high heavy duty hi-vis barrier mesh
- Erected and fitted to metal poles, timber stakes or railway pins driven into the ground at regular intervals

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Title Tree Protection Protocol Scenario 2

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Job Ref	Scale @ A2	Date Created
JSL4631	NTS	July 2023

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METHODOLOGY

- 3.1 Where site access will pass through any Root Protection Areas, Ground Protection will be used protect the roots of retained trees. This should be constructed to the specification given below.
- 3.2 Tree Protection Fencing shall also be used in order protect any remaining RPA outside of the ground protection. This should be erected to the specification given below.
- 3.3 These protection measures shall be erected before any work begins and remain in situ for the entire duration of works.
- 3.4 To allow access to site, trees may also require pruning back from access route. If required, these pruning works shall follow the specification below.
- 3.5 All further guidance contained within the Arboricultural Method Statement should still be followed throughout the coarse of construction.

Ground Protection

- 3.6 Temporary ground protection shall be sufficient in design, to support the proposed construction movement within the RPA. Different levels of ground protection may be comprised of one of the following designs as referenced from BS5837:2012:
- **Pedestrian movements only:** a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;
 - **For pedestrian-operated plant up to a gross weight of 2t:** proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;
 - **For wheeled or tracked construction traffic exceeding 2t gross weight:** an alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.
- 3.7 See inset below for example Ground Protection detail.

Fencing Specification (Heras 151 steadfast system)

- 3.8 Either the Heras 151 steadfast system or a similar and equivalent system, will be used to create the CEZ. The Heras 151 steadfast system is a series of linked fence panels supported by concrete block feet. See inset.
- 3.9 This is to be used around as much of the affected RPA as possible while allowing sufficient clearance from the access route.
- 3.10 The panels will be secured to each other using at least two Heras-lock anti-tamper couplers, installed so that they can only be removed from inside the fence, and diagonal bracing of the structure would be achieved through the use of the Heras steadfast strut secured using ground pins and/ or block trays so that it is compliant with the guidance detailed within BS5387:2012 at paragraph 6.2.2.3.
- 3.11 Care will be taken in the installation to ensure no contact of ground pins is made with major roots over 25mm diameter.
- 3.12 Signs detailing the purpose of the protective fencing and visual barriers shall be attached to the fencing/ barriers at 10m intervals. Such signs will be weatherproof and shall be substantially in the form of the specimen provided inset. Signs must be replaced as necessary should they be removed or become illegible.

Pruning Work

- 3.13 All tree work shall be carried out by a suitably qualified tree surgeon, preferably an Arboricultural Association approved contractor and monitored by an appointed person.
- 3.14 Works identified shall be carried out with care in accordance with current H&S requirements and good arboricultural practice to avoid damage to adjacent trees / property.
- 3.15 All tree works must be carried out in accordance with BS3998:2010.
- 3.16 No wheeled or tracked machinery (e.g., MEWPs, Chippers or Cranes) is to enter the RPA of retained trees.

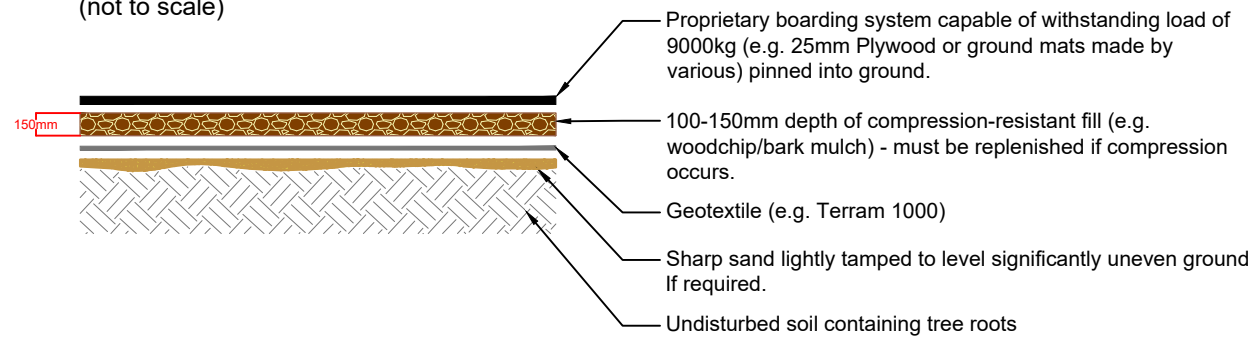
Timing of Works

- 3.17 Any tree works required shall be completed prior to any construction and enabling works on the site.
- 3.18 All works shall be timed to have regard to the phenological cycles of protected species that are associated with trees; notably birds and bats.
- 3.19 Nesting birds are protected by law and any removal / tree works should not be carried out during the bird nesting season (March-August inclusive). Should any vegetation be outlined for removal during this period, then an ecological inspection would be required to check that no nesting birds are present. Should checks reveal nesting birds the vegetation must remain until September or until an ecologist has certified that the fledglings have left the nest. A visual inspection for bats shall also be carried on mature / ivy clad trees prior to commencing operations.

Waste Wood Management

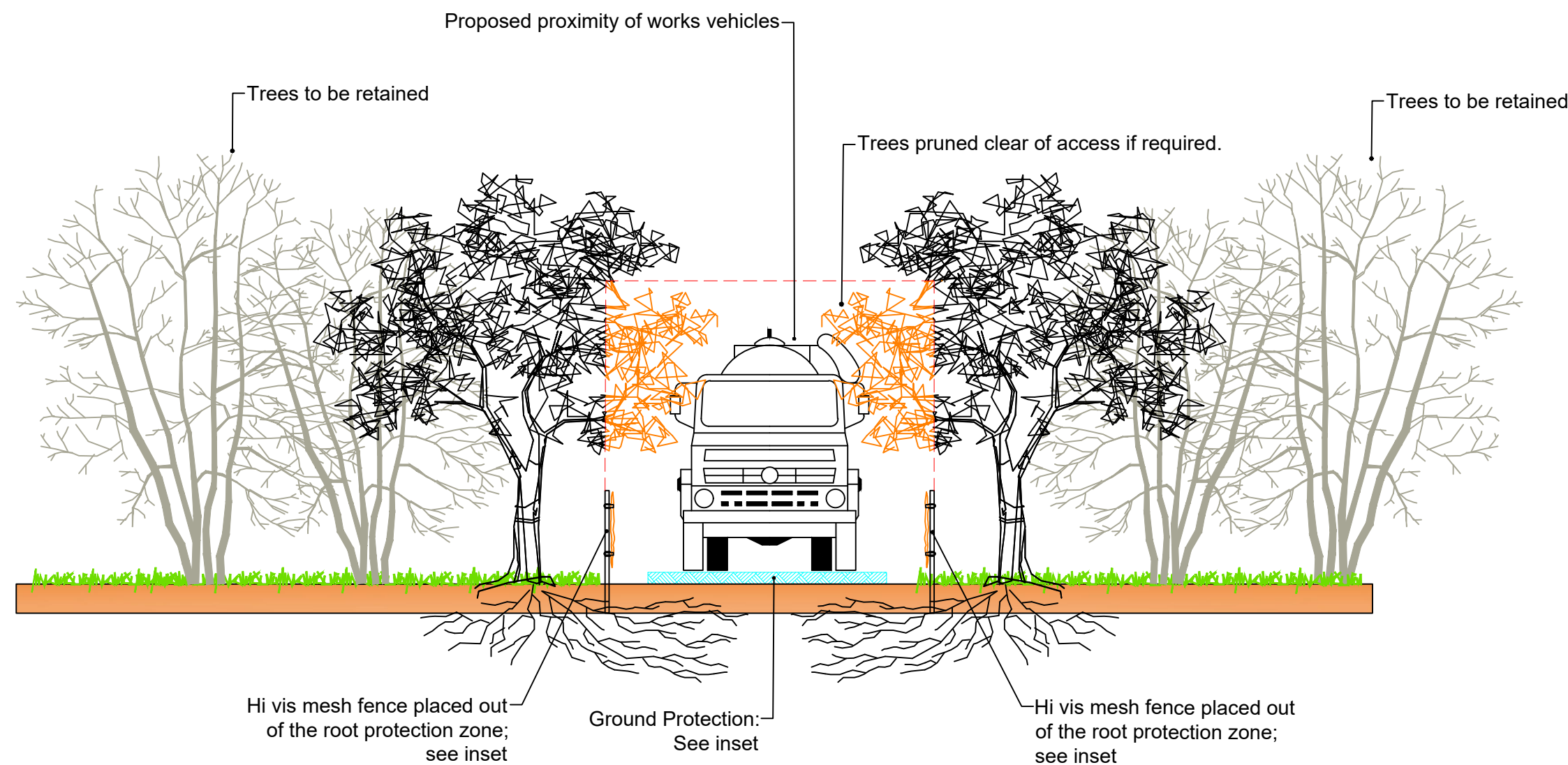
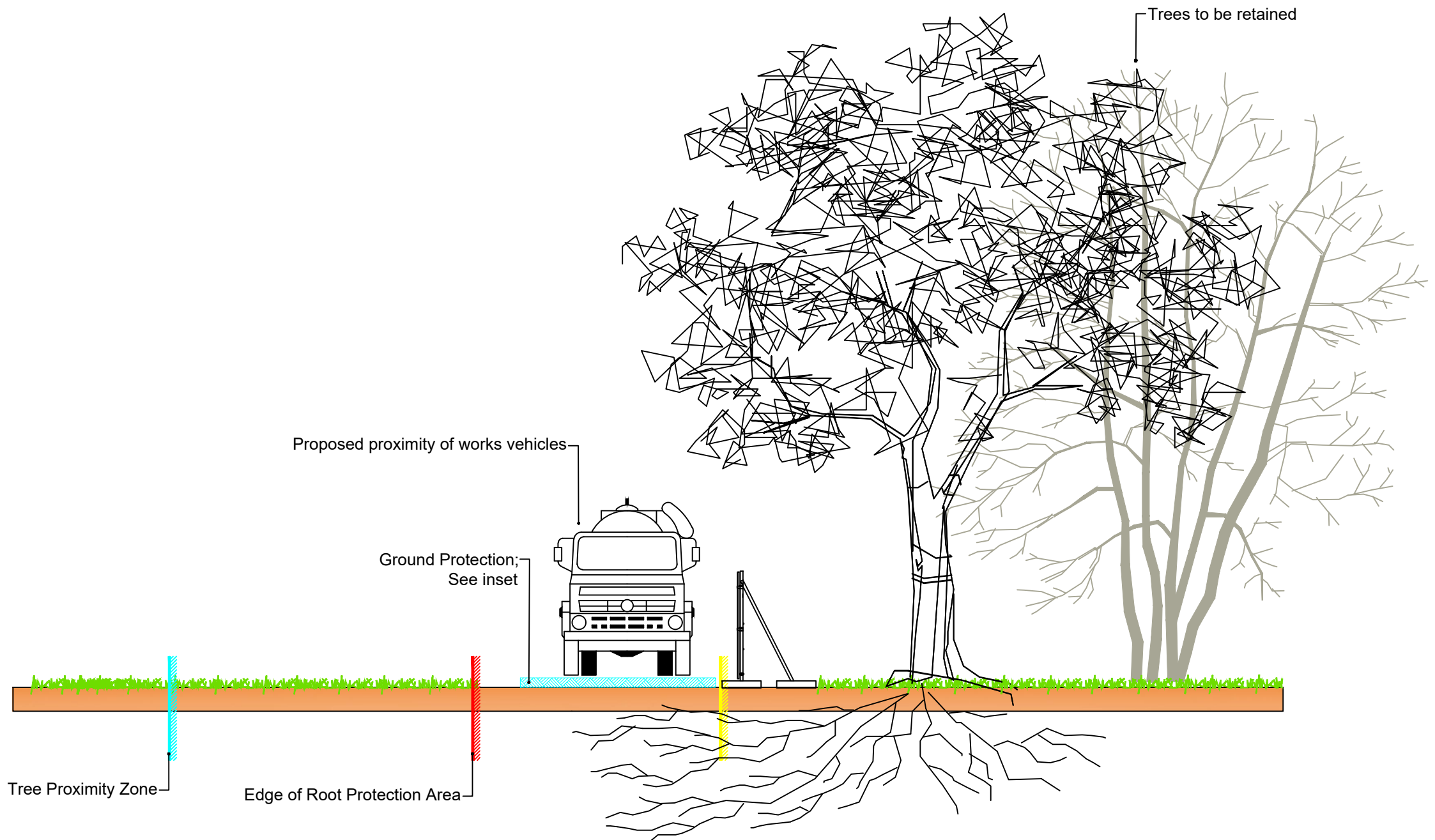
- 3.20 All green and woody waste generated by the tree works shall chipped, removed from site and disposed of in an environmentally sustainable manner in line with current Environmental Protection Act 1990 (EPA) guidelines.

Ground protection detail
(not to scale)

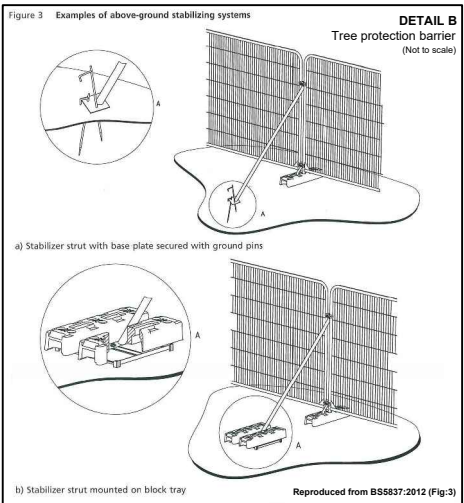
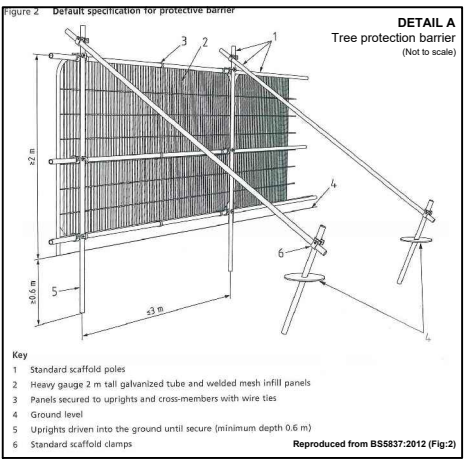


Scenario 3

Ground Protection for Site Access



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Title Tree Protection Protocol Scenario 3

Status For Planning Drawn By RC PM/Checked by DC

Job Ref JSL4631 Scale @ A2 NTS Date Created July 2023

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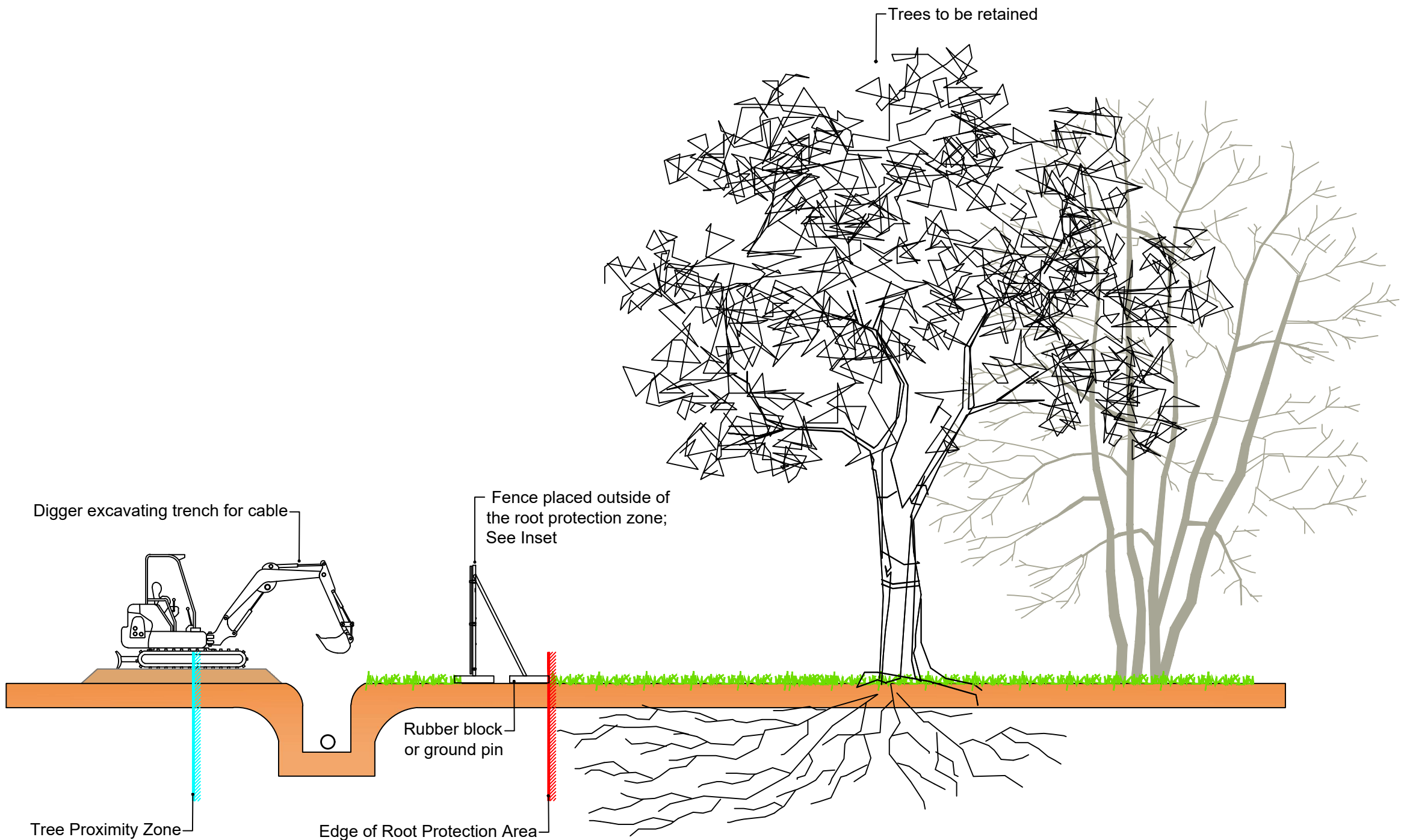
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METHODOLOGY

- 4.1
- Where works will be carried out within the Tree Proximity Zone but outside of any Root Protection Areas, Tree Protection Fencing shall also be used in order to create a Construction Execution Zone. This should be erected to the specification given below.
- 4.2
- This fencing shall be erected before any work begins and remain in situ for the entire duration of works.
- 4.3
- All further guidance contained within the Arboricultural Method Statement should still be followed throughout the coarse of construction.

Fencing Specification (Heras 151 steadfast system)

- 4.4
- Either the Heras 151 steadfast system or a similar and equivalent system, will be used to create the CEZ. The Heras 151 steadfast system is a series of linked fence panels supported by concrete block feet. See inset.
- 4.5
- This is to be erected around the RPAs of retained trees as calculated during Stage 2 of this Tree Protection Protocol.
- 4.6
- The panels will be secured to each other using at least two Heras-lock anti-tamper couplers, installed so that they can only be removed from inside the fence, and diagonal bracing of the structure would be achieved through the use of the Heras steadfast strut secured using ground pins and/ or block trays so that it is compliant with the guidance detailed within BS5387:2012 at paragraph 6.2.2.3.
- 4.7
- Care will be taken in the installation to ensure no contact of ground pins is made with major roots over 25mm diameter.
- 4.8
- Signs detailing the purpose of the protective fencing and visual barriers shall be attached to the fencing/ barriers at 10m intervals. Such signs will be weatherproof and shall be substantially in the form of the specimen provided inset. Signs must be replaced as necessary should they be removed or become illegible.



Scenario 4

Working Within Tree Proximity Zone but Outside RPA

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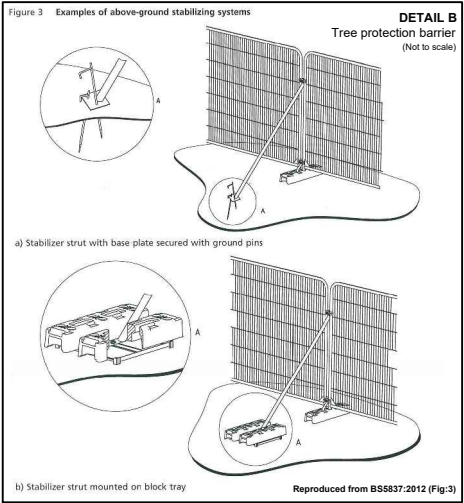
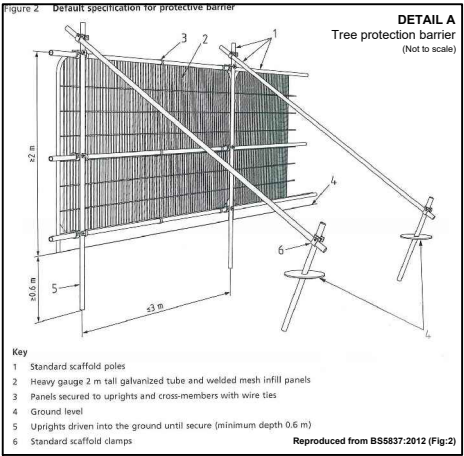
Notes

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