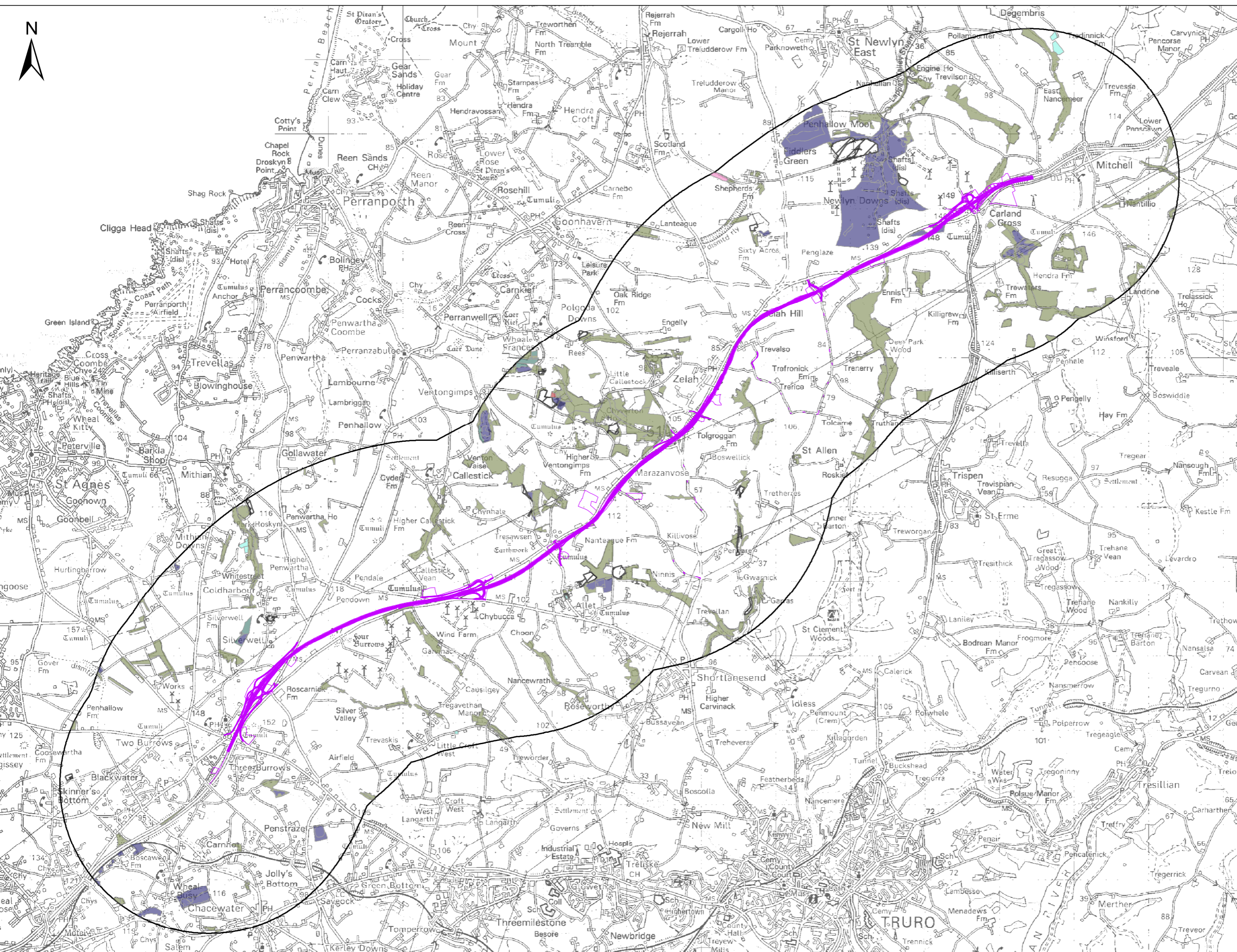


A30 Chiverton to Carland Cross Improvement Scheme Preliminary Environmental Information Report

PEIR Appendix 8.3 Phase 1 Habitat Update
Survey Report

Login: DeSouzaJ
 Plot Date: 02/10/2017
 File Name: \\uk.wspgroup.com\central_data\Projects\70004582 - A30 Chiverton to Carland Cross PCF Stage 2\E Models and Drawings\GIS\Third Party\Ben Smith 20-09-17\Phase 1\Figure 2 - Habitats of Principal Importance within 2km.mxd



— Proposed Route
 ○ 2km Study Area
 ■ Deciduous woodland
 ■ Good quality semi-improved grassland
 ■ Lowland fens
 ■ Lowland heathland
 ■ Purple moor grass and rush pastures
 ■ Traditional orchard
 ■ No main habitat but additional habitats

0 0.5 1 2
 Kilometres

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Rev	Date	Description	By	Chk	App	Notes

Kings Orchard,
 1 Queen Street, Bristol
 BS2 0HQ
 Tel: 44-(0)117-930-6200

Client:

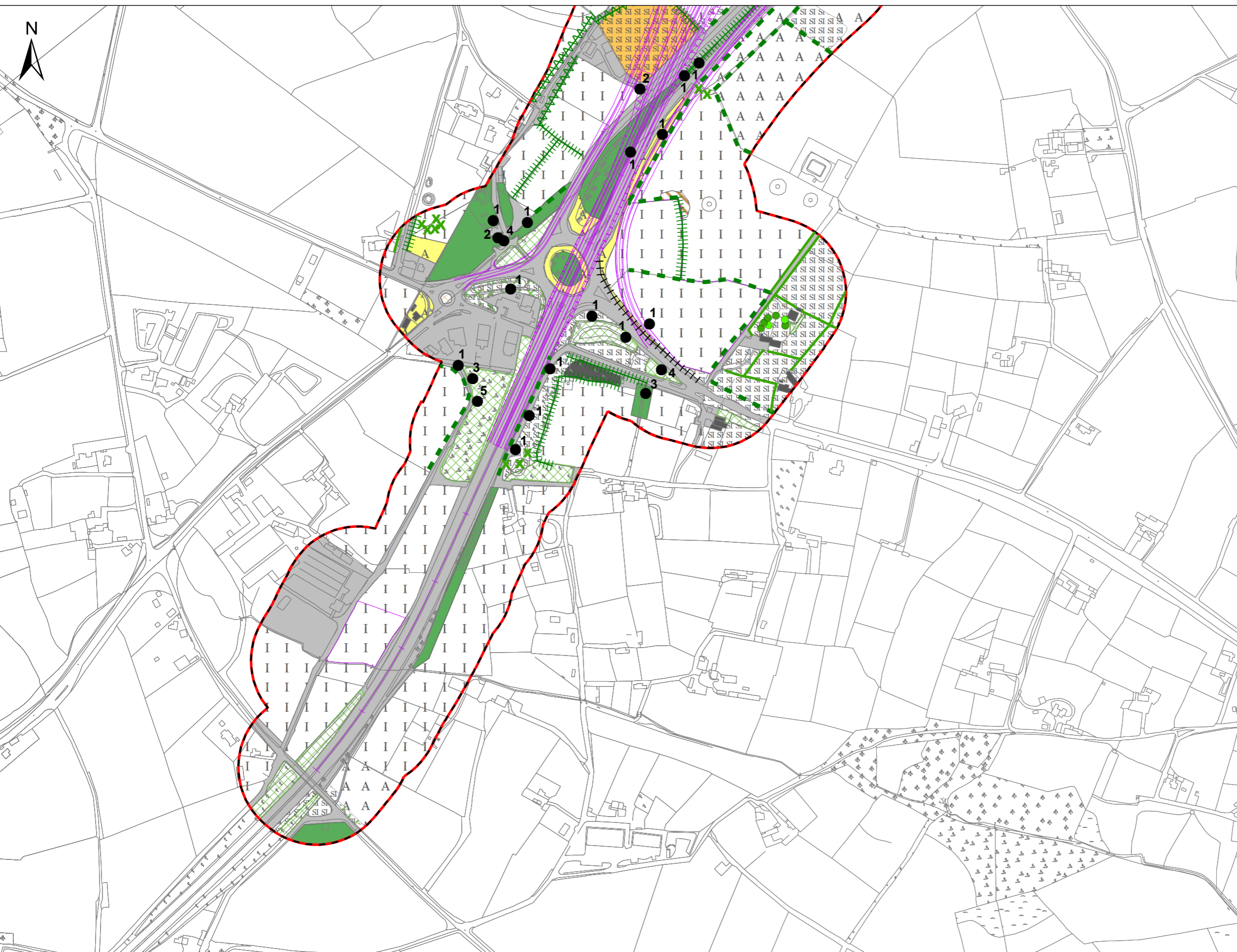
 Project: **A30 CHIVERTON TO CARLAND CROSS**

Title: **HABITATS OF PRINCIPAL IMPORTANCE WITHIN 2km**

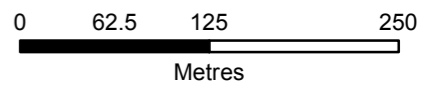
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Project Number: 70004582	Drawing Number: FIGURE 2
	Revision:

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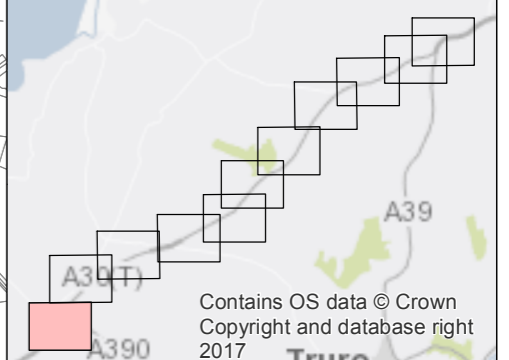
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- Proposed Route
- 100m Survey Area
- Semi-improved grassland
- Broad-leaved woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Poor semi-improved grassland
- Tall ruderal
- Arable
- Amenity grassland
- Introduced shrub
- Buildings
- Hard standing
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- Fence
- Scattered broad-leaved tree
- Coniferous scattered tree
- X Scattered scrub
- Invasive Species



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Date: 01/11/2017	Scale: 1:200,995 A3 Sheet:
Project Number: 70004582	Drawing Number: FIGURE 3
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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variagated archangel

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BS2 0HQ

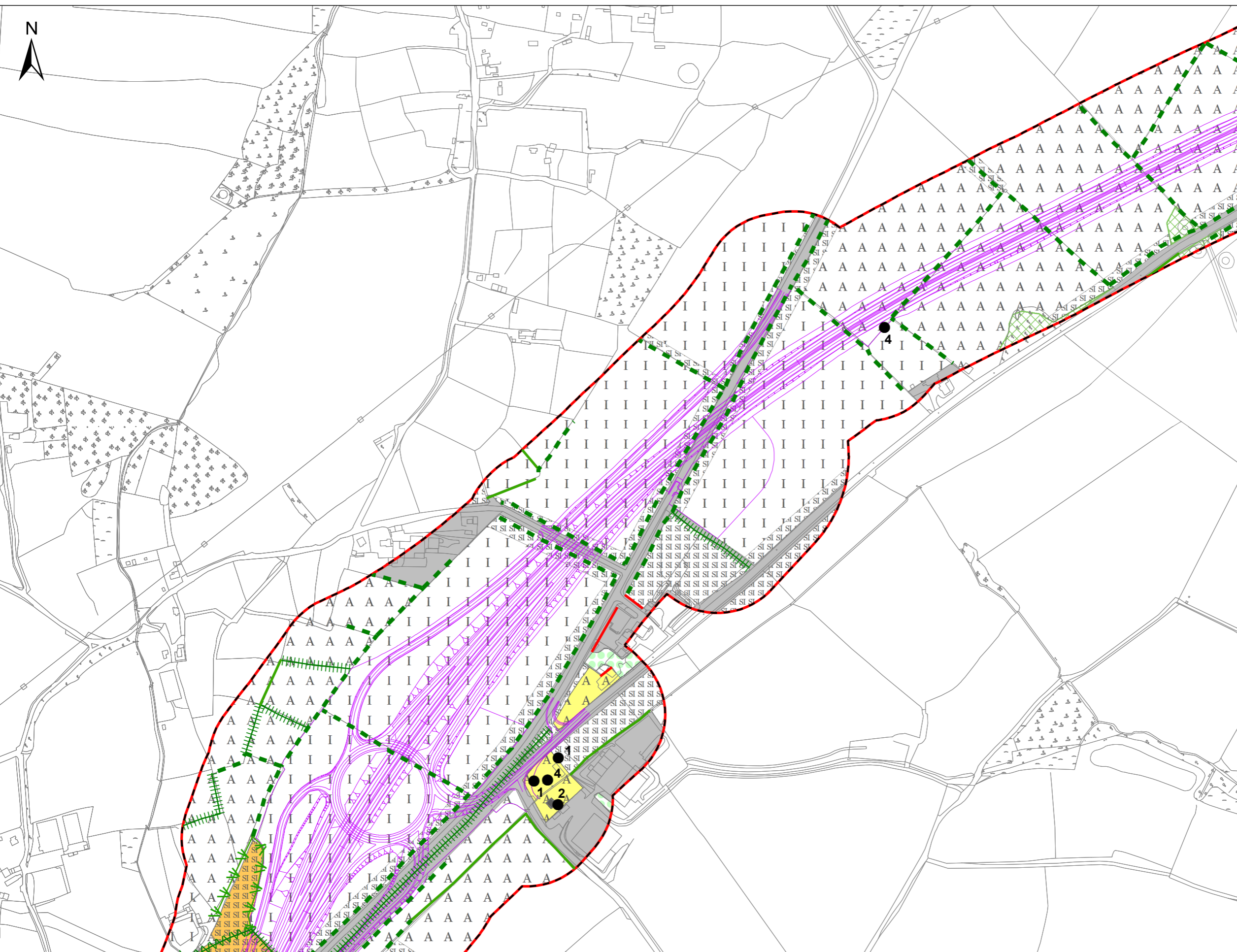
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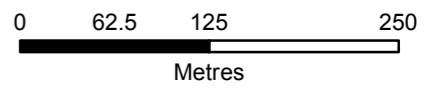
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Title: **PHASE 1 HABITAT SURVEY UPDATE REPORT PAGE 1 OF 11**

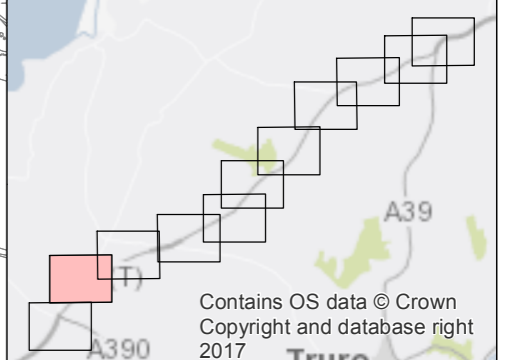
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Semi-improved grassland
- Dense scrub
- Coniferous scattered trees
- Improved grassland
- Poor semi-improved grassland
- Arable
- Amenity grassland
- Buildings
- Hard standing
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- Wall
- Invasive Species



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Rev	Date	Description	By	Chk	App

Notes:	
ID	Invasive Species
1	Montbretia
2	Rhododendron
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4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

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1 Queen Street, Bristol
BS2 0HQ
Tel: 44-(0)117-930-6200

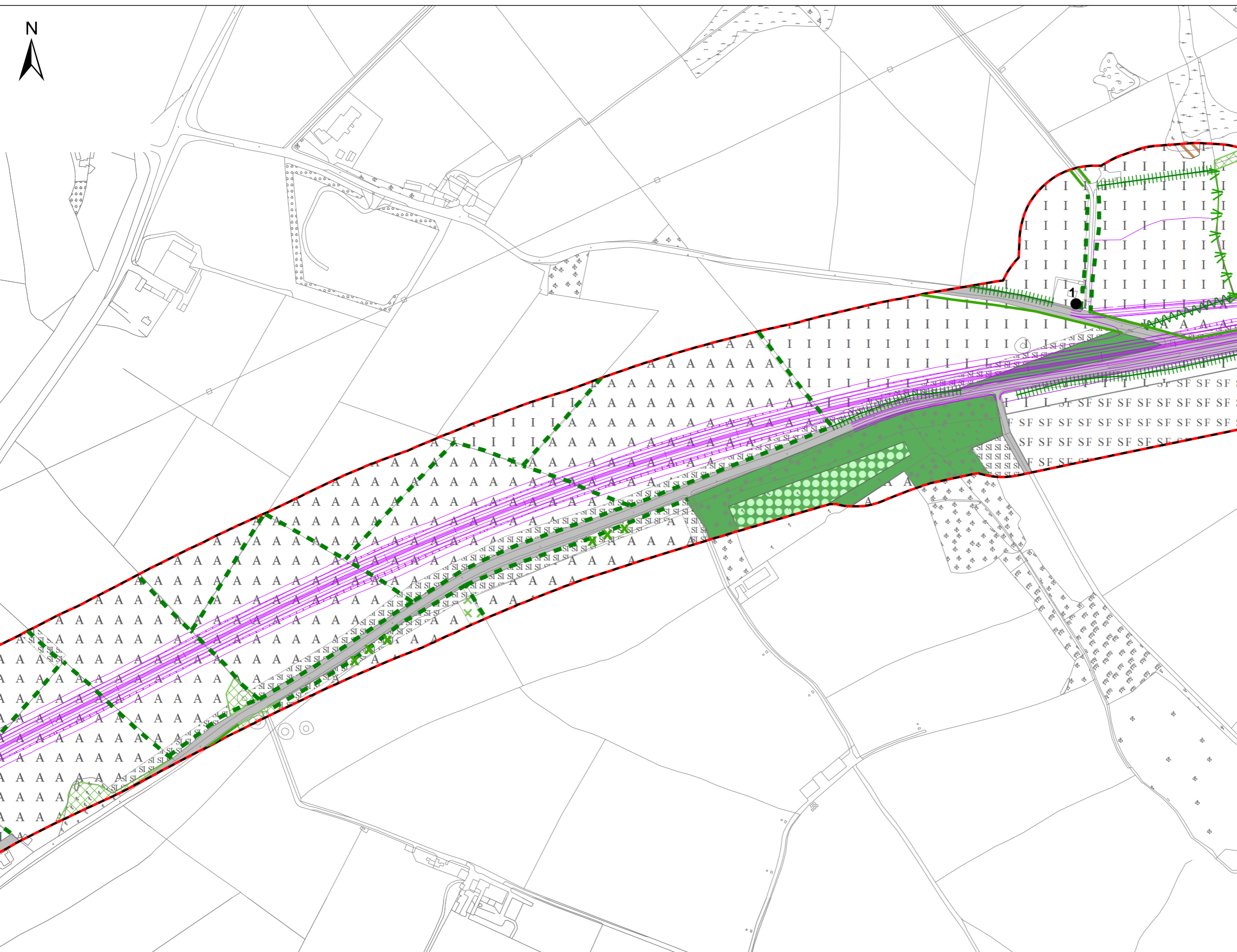
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Project: **A30 CHIVERTON TO CARLAND CROSS**

Title: **PHASE 1 HABITAT SURVEY UPDATE REPORT PAGE 2 OF 11**

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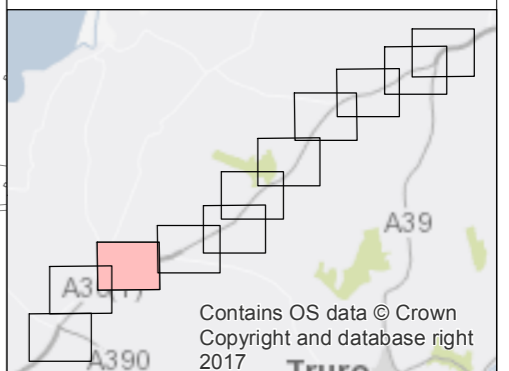
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Coniferous plantation woodland
- Broad-leaved woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Poor semi-improved grassland
- Tall ruderal
- Arable
- Hard standing
- SF Solar farm
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- X Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

Notes:

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

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1 Queen Street, Bristol
BS2 0HQ

Tel: 44-(0)117-930-6200

Client:

Project:

**A30 CHIVERTON TO
CARLAND CROSS**

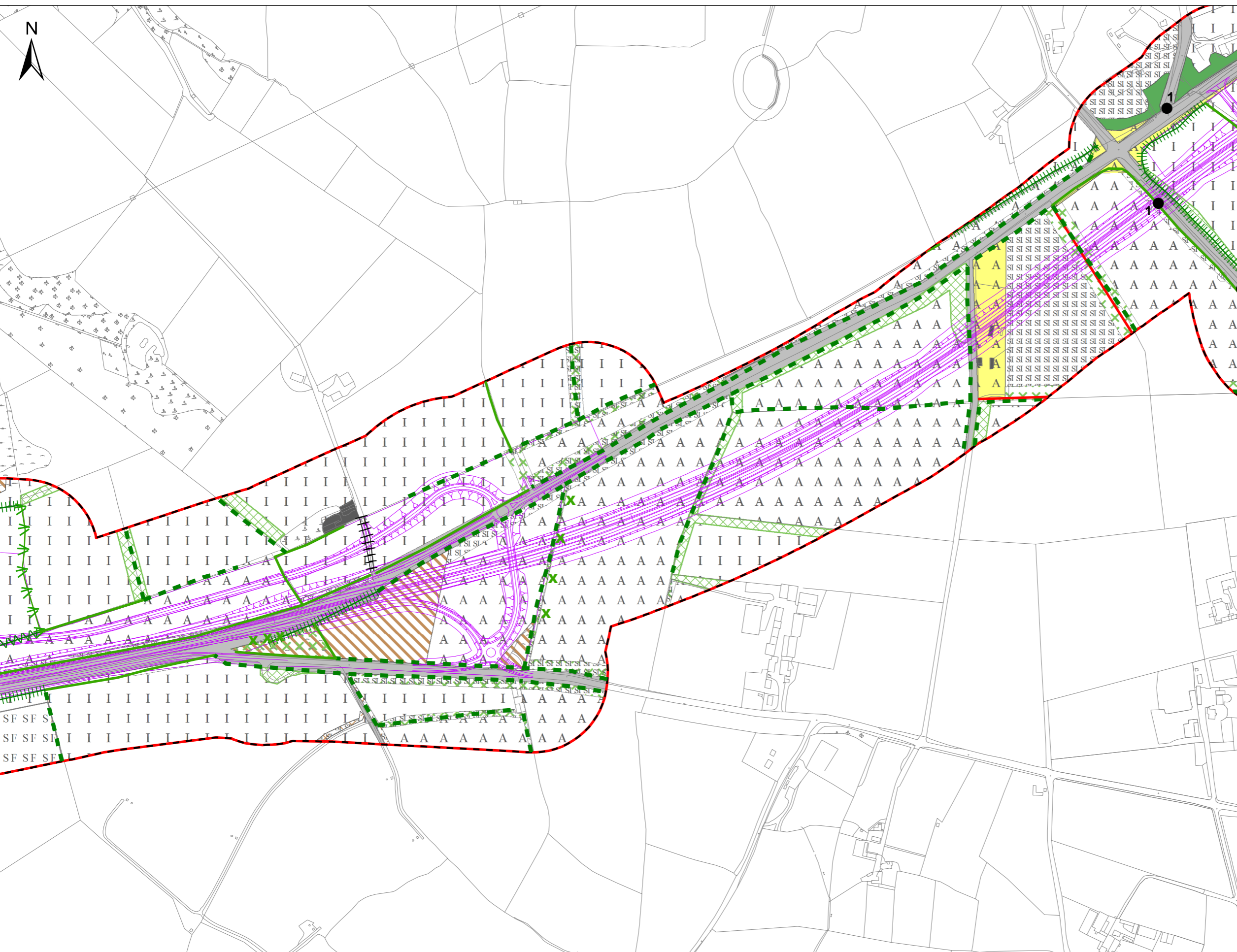
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**PHASE 1 HABITAT SURVEY
UPDATE REPORT
PAGE 3 OF 11**

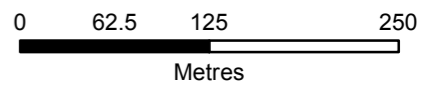
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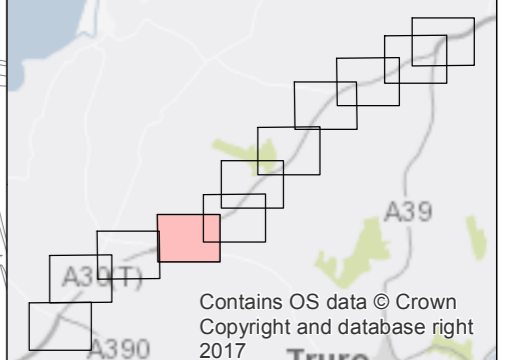
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Broad-leaved woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Poor semi-improved grassland
- Scattered bracken
- Tall ruderal
- Arable
- Amenity grassland
- Buildings
- Hard standing
- Solar farm
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- + + + Fence
- Wall
- X Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

Notes:	
ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

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1 Queen Street, Bristol
BS2 0HQ

Tel: 44-(0)117-930-6200

Client:

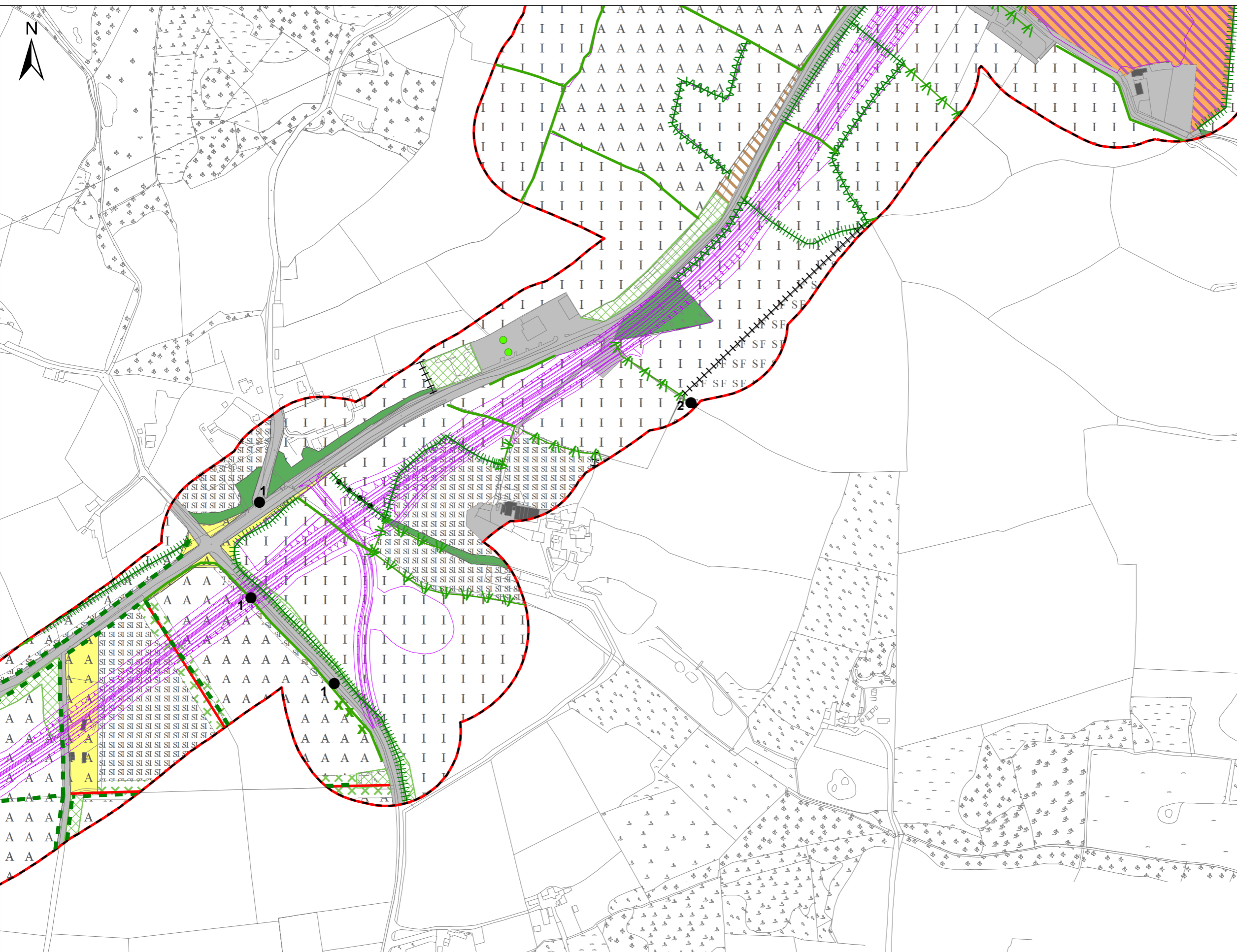
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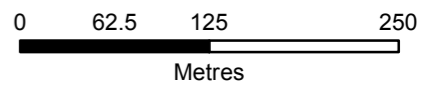
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	Revision:

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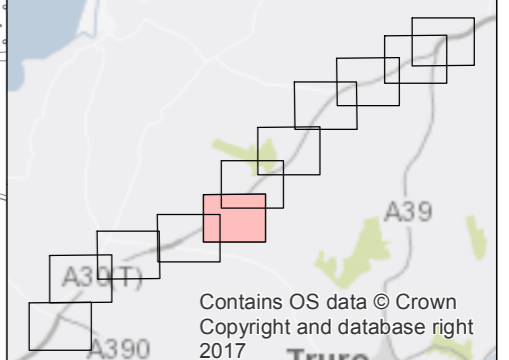
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Broad-leaved woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Marshy grassland
- Poor semi-improved grassland
- Tall ruderal
- Arable
- Amenity grassland
- Buildings
- Hard standing
- Solar farm
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- Fence
- Wall
- Coniferous scattered tree
- Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archange

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BS2 0HQ

Tel: 44-(0)117-930-6200

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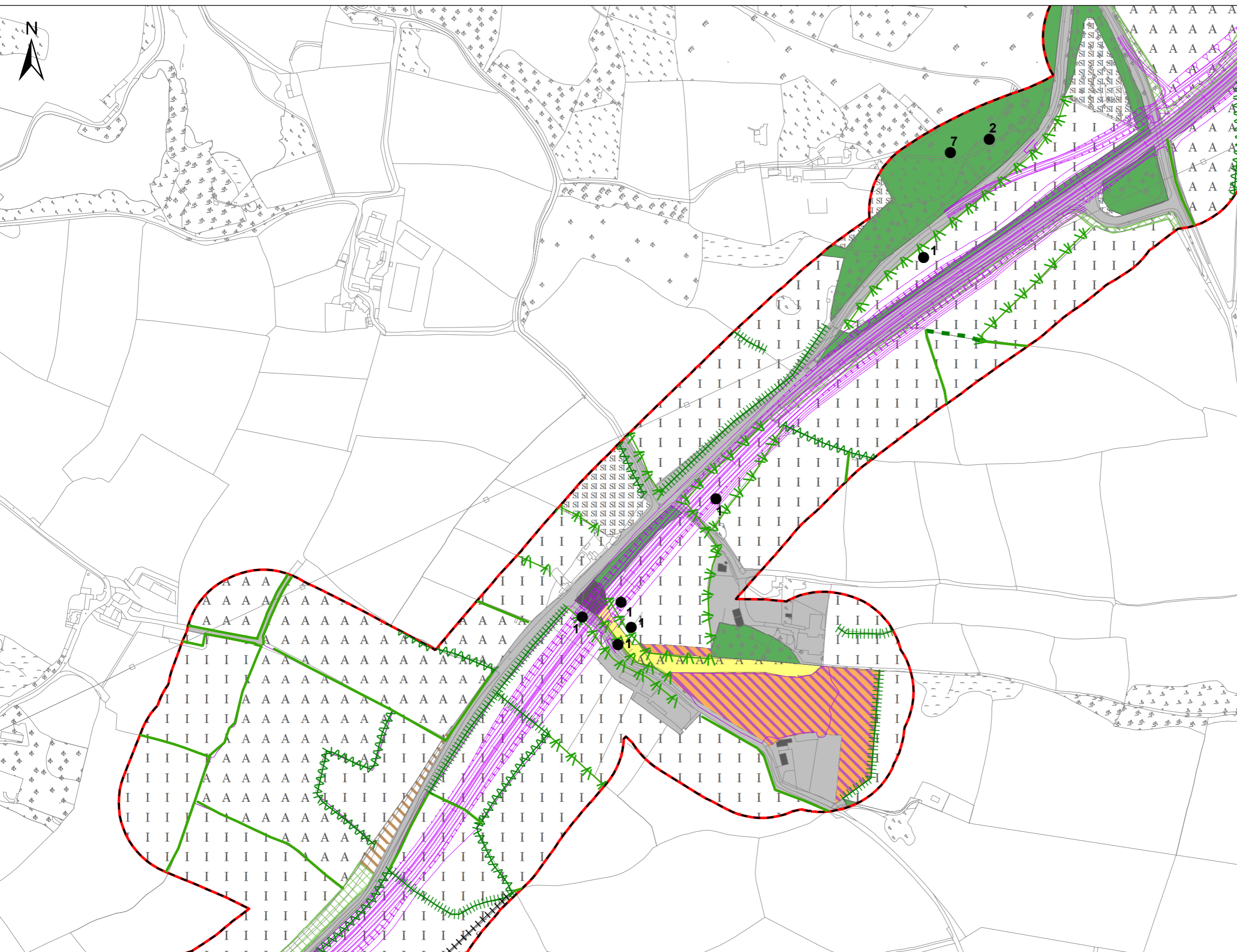
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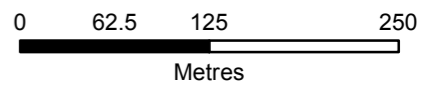
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Revision:	

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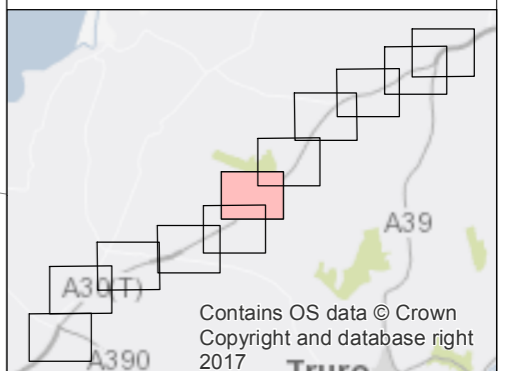
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 Log in: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Broad-leaved woodland
- Dense scrub
- Improved grassland
- Marshy grassland
- Poor semi-improved grassland
- Tall ruderal
- Arable
- Amenity grassland
- Buildings
- Solar farm
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- Fence
- Invasive Species



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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

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BS2 0HQ

Tel: 44-(0)117-930-6200

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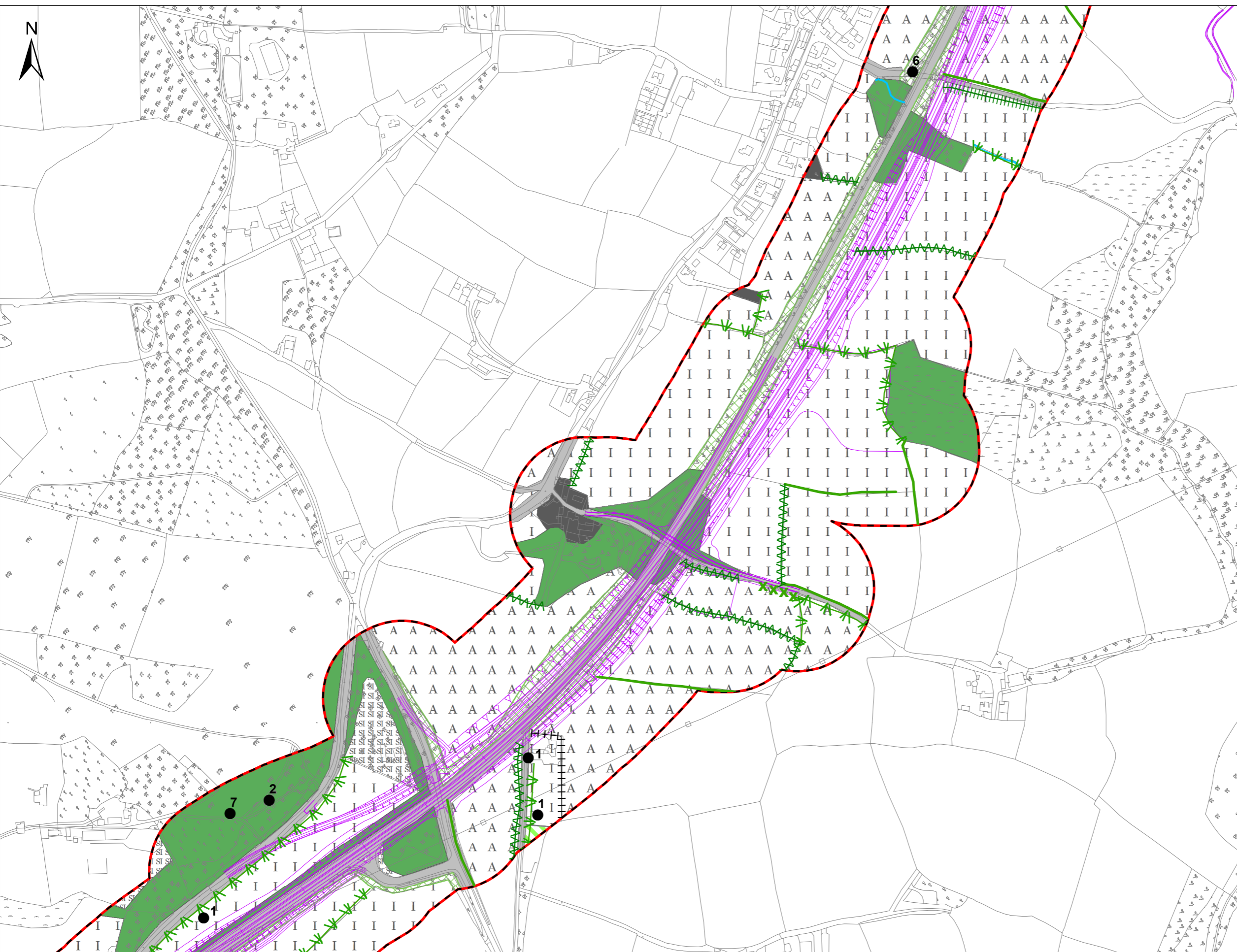
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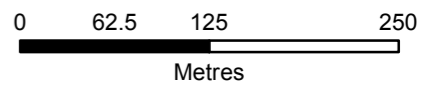
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	Revision:

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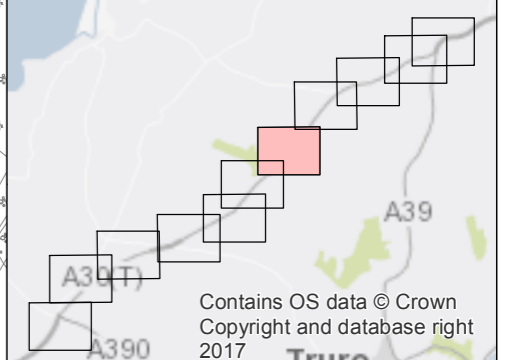
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Orchard
- Broad-leaved woodland
- Dense scrub
- I Improved grassland
- SI SI SI Poor semi-improved grassland
- A Arable
- Buildings
- Hard standing
- Running water
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor hedge with trees
- Fence
- x Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variagated archangel

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1 Queen Street, Bristol
BS2 0HQ

Tel: 44-(0)117-930-6200

Client:

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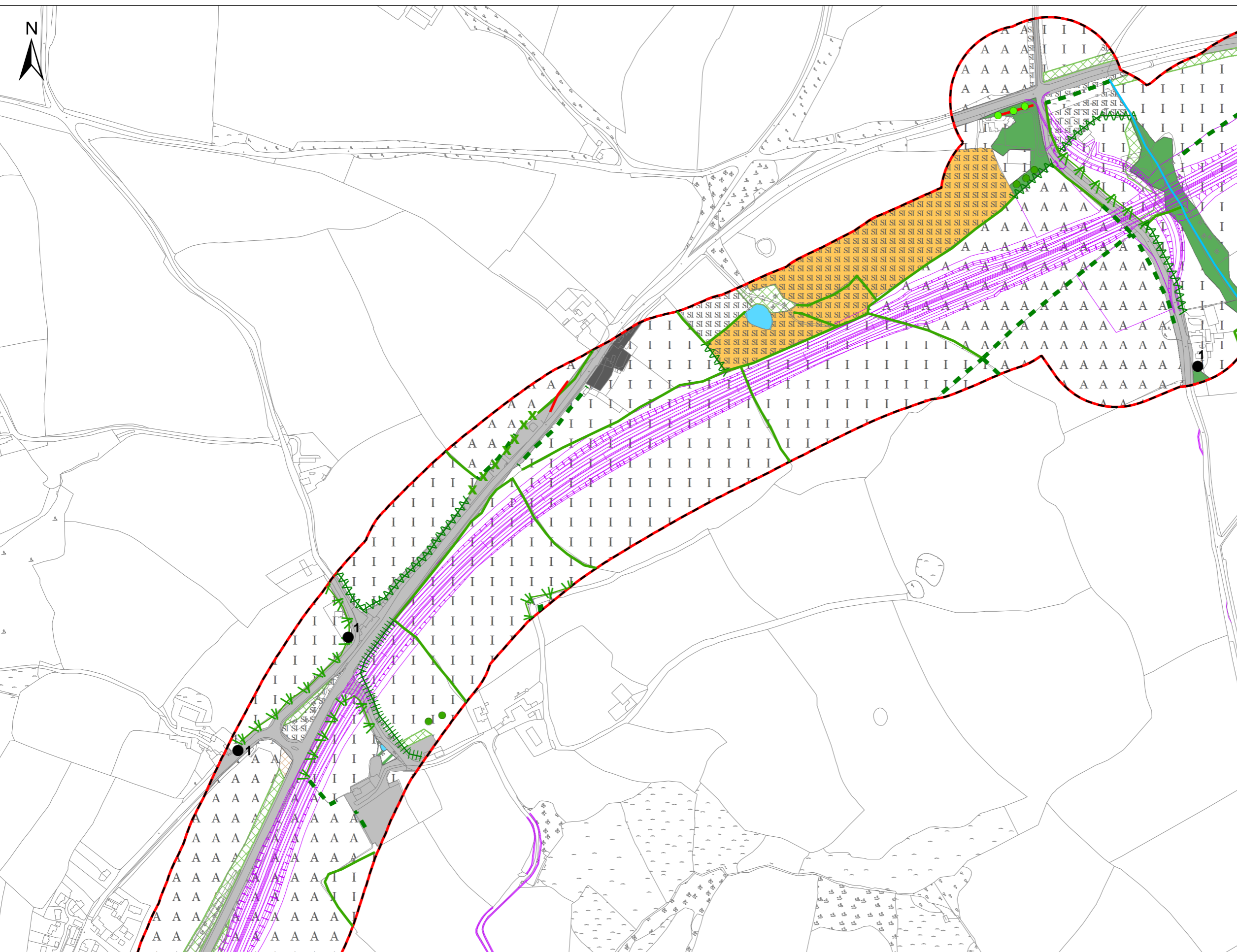
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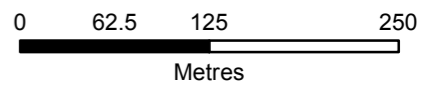
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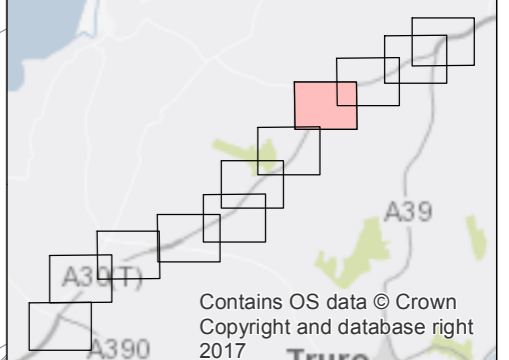
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Semi-improved grassland
- Broad-leaved woodland
- Broad-leaved plantation
- Dense scrub
- Improved grassland
- Poor semi-improved grassland
- Standing water
- Arable
- Introduced shrub
- Buildings
- Hard standing
- Running water
- Native species-rich intact hedge
- Native species-rich hedge with trees
- Species-poor intact hedge
- Species-poor defunct hedge
- Species-poor hedge with trees
- Wall
- Scattered broad-leaved tree
- Coniferous scattered tree
- ✕ Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
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5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

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Project:

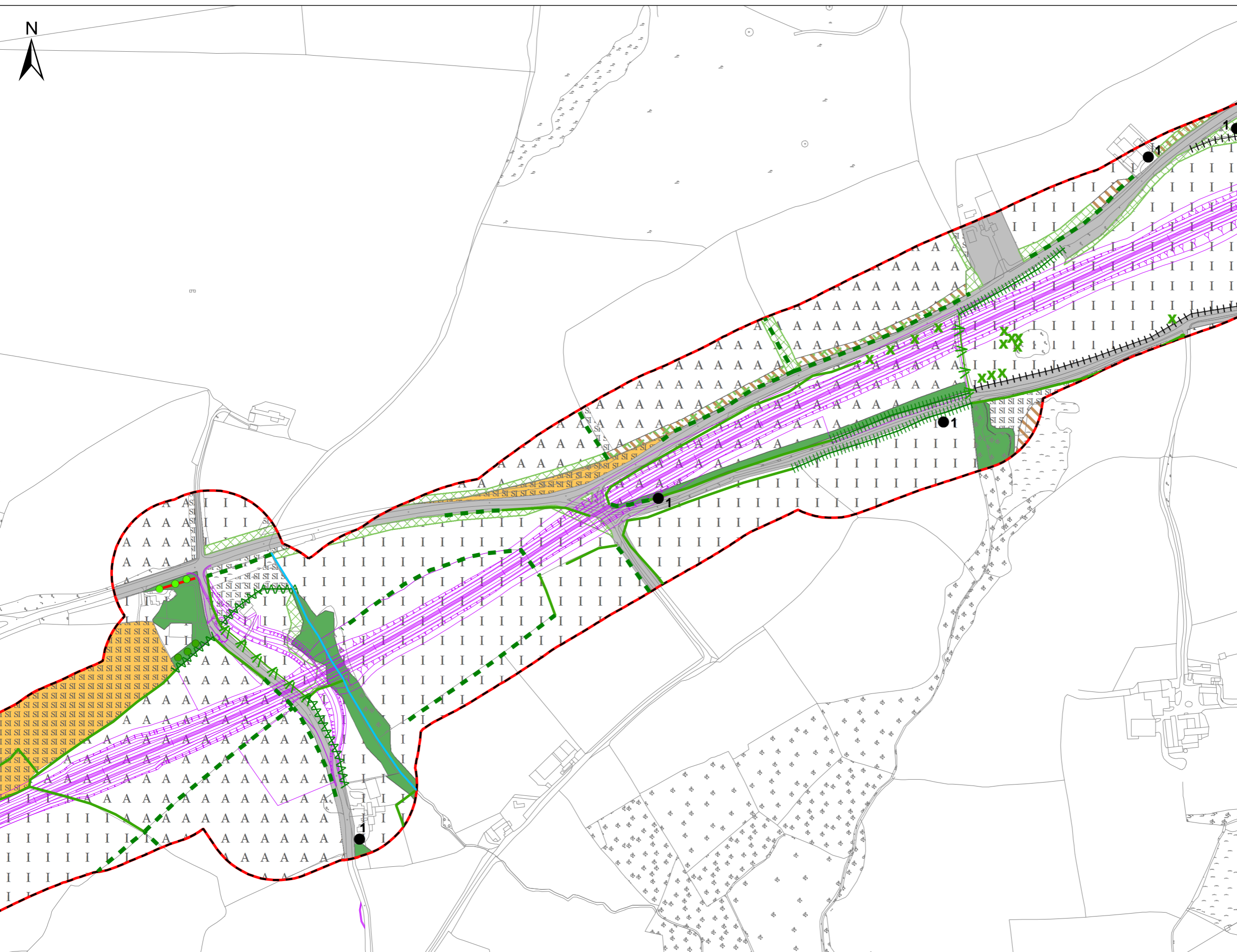
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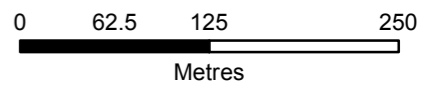
PHASE 1 HABITAT SURVEY UPDATE REPORT
PAGE 8 OF 11

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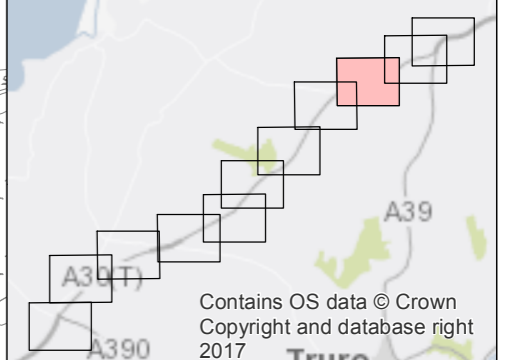
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 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Semi-improved grassland
- Broad-leaved woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Poor semi-improved grassland
- Tall ruderal
- Arable
- Hard standing
- Running water
- ~ Native species-rich intact hedge
- x- Native species-rich hedge with trees
- Species-poor intact hedge
- x- Species-poor defunct hedge
- x-x- Species-poor hedge with trees
- Fence
- Wall
- Scattered broad-leaved tree
- Coniferous scattered tree
- x Scattered scrub
- Invasive Species



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Rev	Date	Description	By	Chk	App

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7	Variiegated archangel

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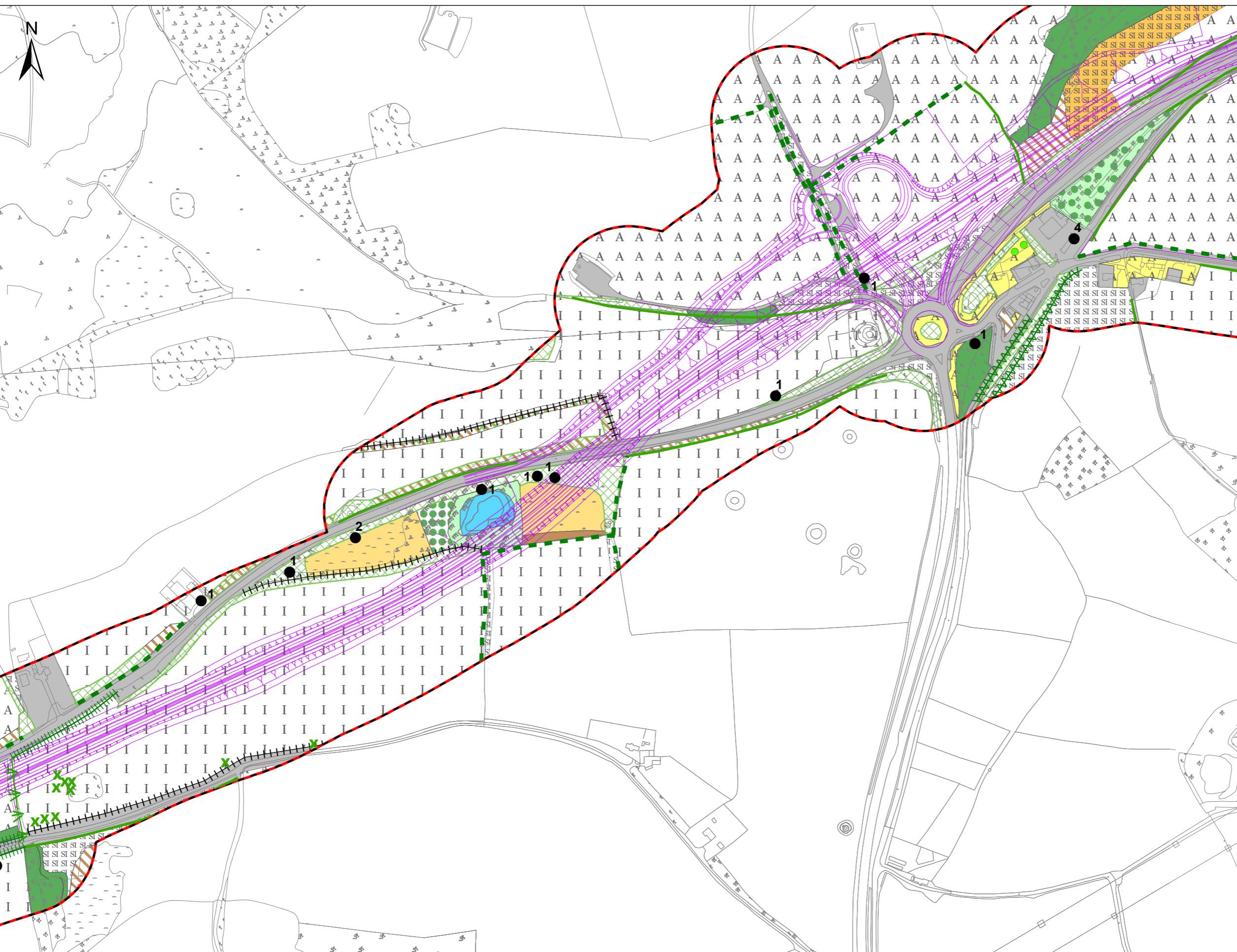
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PAGE 9 OF 11

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Revision:	

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 Login: DeSouzaJ
 Plot Date: 03/11/2017



Proposed Route

100m Survey Area

Semi-improved grassland

Broad-leaved woodland

Semi-natural Coniferous woodland

Mixed semi-natural woodland

Dense scrub

Scattered scrub

Broad-leaved scattered trees

Improved grassland

Poor semi-improved grassland

Continuous bracken

Tall ruderal

Acid dry dwarf shrub heath

Standing water

Arable

Amenity grassland

Hard standing

Native species-rich intact hedge

Native species-rich hedge with trees

Species-poor intact hedge

Species-poor defunct hedge

Species-poor hedge with trees

Fence

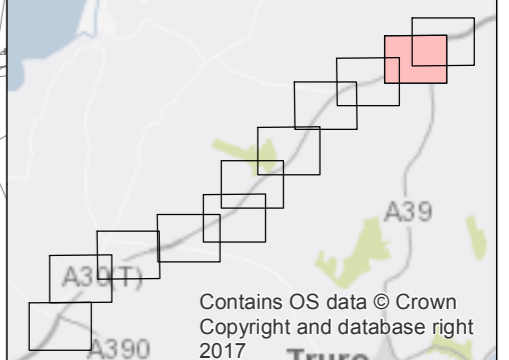
Coniferous scattered tree

Scattered scrub

Invasive Species

0 62.5 125 250
Metres

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Rev	Date	Description	By	Chk	App

Notes:

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Tel: 44-(0)117-930-6200

Client:

WSP

Project:

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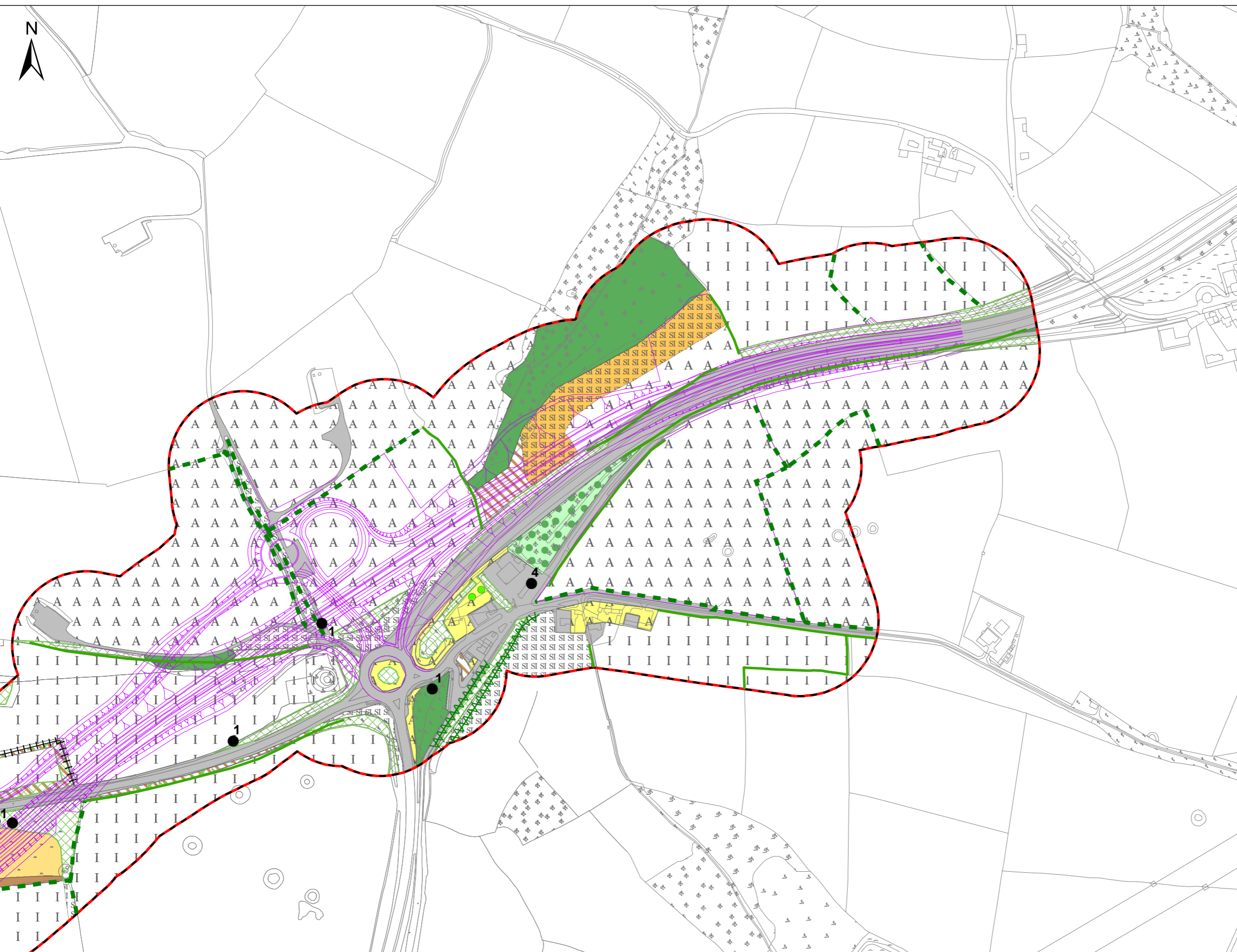
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PAGE 10 OF 11

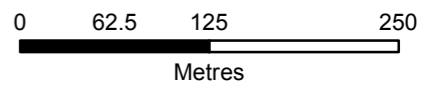
Drawn: JSdS	Checked: ET
Designed: GH	Approved: UD
Date: 01/11/2017	Scale: 1:200,995 A3 Sheet:
Project Number: 70004582	Drawing Number: FIGURE 3

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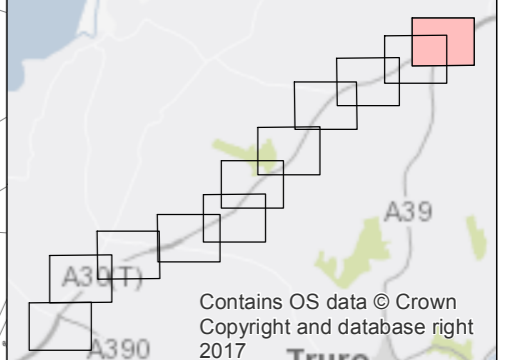
File Name: \\uk.wspgroup.com\central_data\Projects\70004582 - A30 Chiverton to Carland Cross PCF Stage 2\E Models and Drawings\GIS\Third Party\Ben Smith 20-09-17\Phase 1\Figure 3 - Phase 1 Habitat Survey Update report.mxd
 Login: DeSouzaJ
 Plot Date: 03/11/2017



- Proposed Route
- 100m Survey Area
- Semi-improved grassland
- Broad-leaved woodland
- Mixed semi-natural woodland
- Dense scrub
- Scattered scrub
- Improved grassland
- Poor semi-improved grassland
- Continuous bracken
- Tall ruderal
- Acid dry dwarf shrub heath
- Arable
- Amenity grassland
- Hard standing
- Native species-rich intact hedge
- Species-poor intact hedge
- Species-poor defunct hedge
- Fence
- Coniferous scattered tree
- Invasive Species



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Rev	Date	Description	By	Chk	App

ID	Invasive Species
1	Montbretia
2	Rhododendron
3	Japanese knotweed
4	Japanese rose
5	Cotoneaster
6	Three-cornered garlic
7	Variiegated archangel

WSP | **PARSONS BRINCKERHOFF**

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Client: **WSP**

Project: **A30 CHIVERTON TO CARLAND CROSS**

Title: **PHASE 1 HABITAT SURVEY UPDATE REPORT PAGE 11 OF 11**

Drawn: JSdS	Checked: ET
Designed: GH	Approved: UD
Date: 01/11/2017	Scale: 1:200,995 A3 Sheet:
Project Number: 70004582	Drawing Number: FIGURE 3
	Revision:

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Appendix A

PHASE 1 SURVEY BOTANICAL SPECIES LISTS

SEMI-NATURAL BROADLEAVED WOODLAND (A.1.1.1)

COMMON NAME	SCIENTIFIC NAME	DOMIN
Bramble	<i>Rubus fruticosus</i> agg.	7
Bluebell	<i>Hyacinthoides non-scripta</i>	6
Cherry Laurel	<i>Prunus laurocerasus</i>	6
Scaly Male Fern	<i>Dryopteris affinis</i> agg.	6
Broad Buckler-Fern	<i>Dryopteris dilatata</i>	6
Grey Willow	<i>Salix cinerea</i>	6
Common Ivy	<i>Hedera helix</i>	6
Sycamore	<i>Acer pseudoplatanus</i>	5
Slender Mouse-tail Moss	<i>Isoetes myosuroides</i>	5
Creeping Buttercup	<i>Ranunculus repens</i>	5
Goat Willow	<i>Salix caprea</i>	5
Ivy-Leaved Speedwell	<i>Veronica hederifolia</i>	5
Common Dog Violet	<i>Viola riviniana</i>	5
Common Hogweed	<i>Heracleum sphondylium</i>	4
Common Feather-Moss	<i>Kindbergia praelonga</i>	4
Sweet Chestnut	<i>Castanea sativa</i>	4
Pine	<i>Pinus</i> sp.	4
Blackthorn	<i>Prunus spinosa</i>	4
Common Tamarisk-Moss	<i>Thuidium tamariscinum</i>	4
Common Lady-fern	<i>Athyrium filix-femina</i>	4
Remote Sedge	<i>Carex remota</i>	4
Common Hazel	<i>Corylus avellana</i>	4
Common Hawthorn	<i>Crataegus monogyna</i>	4
Male Fern	<i>Dryopteris filix-mas</i>	4
Common Ash	<i>Fraxinus excelsior</i>	4
Herb-Robert	<i>Geranium robertianum</i>	4
Common Holly	<i>Ilex aquifolium</i>	4
Hard Rush	<i>Juncus inflexus</i>	4
Common Honeysuckle	<i>Lonicera periclymenum</i>	4
Common Polypody Fern	<i>Polypodium vulgare</i> agg.	4
Bank Haircap Moss	<i>Polytrichum formosum</i>	4
Pedunculate oak	<i>Quercus robur</i>	4
Rhododendron	<i>Rhododendron ponticum</i>	4
Elder	<i>Sambucus nigra</i>	4
Black Bryony	<i>Tamus communis</i>	4
Yew	<i>Taxus baccata</i>	4
Catherine's Moss	<i>Atrichum undulatum</i>	3
Bloody Dock	<i>Rumex sanguineus</i>	3

COMMON NAME	SCIENTIFIC NAME	DOMIN
Hard Fern	<i>Blechnum spicant</i>	3
Wild Angelica	<i>Angelica sylvestris</i>	3
Hart's Tongue Fern	<i>Asplenium scolopendrium</i>	3
Enchanter's-nightshade	<i>Circaea lutetiana</i>	3
Beech	<i>Fagus sylvatica</i>	3
Cleavers	<i>Galium aparine</i>	3
Wood Avens	<i>Geum urbanum</i>	3
Yorkshire Fog	<i>Holcus lanatus</i>	3
Wood Bluegrass	<i>Poa nemoralis</i>	3
Red Campion	<i>Silene dioica</i>	3
Pendulous Sedge	<i>Carex pendula</i>	2
Common Holly	<i>Ilex aquifolium</i>	2
Soft Rush	<i>Juncus effusus</i>	2

Location: Taken from across the site

SEMI-NATURAL CONIFEROUS WOODLAND (A.1.2.1)

COMMON NAME	SCIENTIFIC NAME	DOMIN
Monterey Pine	<i>Pinus cf. radiata</i>	9
Grey Willow	<i>Salix cinerea</i>	8
Bramble	<i>Rubus fruticosus</i> agg.	8
Western Gorse	<i>Ulex gallii</i>	5
Purple Moor-grass	<i>Molinia caerulea</i>	5
Broad Buckler-fern	<i>Dryopteris dilatata</i>	5
Common Ivy	<i>Hedera helix</i>	5
Common Hazel	<i>Corylus avellana</i>	4
Common Hawthorn	<i>Crataegus monogyna</i>	4
Blackthorn	<i>Prunus spinosa</i>	4
Holm Oak	<i>Quercus ilex</i>	4
Oak Species	<i>Quercus</i> sp.	4
Common Honeysuckle	<i>Lonicera periclymenum</i>	4
Wood Sage	<i>Teucrium scorodonia</i>	4
Heath Plait-moss	<i>Hypnum jutlandicum</i>	4
Common Ash	<i>Fraxinus excelsior</i>	3
Common Alder	<i>Alnus glutinosa</i>	3
Common Bent	<i>Agrostis capillaris</i>	3
Bristle Bent	<i>Agrostis curtisii</i>	3
Hart's Tongue Fern	<i>Asplenium scolopendrium</i>	3
Male Fern	<i>Dryopteris filix-mas</i>	2
Bell Heather	<i>Erica cinerea</i>	2

COMMON NAME	SCIENTIFIC NAME	DOMIN
Common Holly	<i>Ilex aquifolium</i>	2

Location: SW 84046 53717

SEMI-NATURAL MIXED WOODLAND (A.1.3.1)

COMMON NAME	SCIENTIFIC NAME	DAFOR
Common Ash	<i>Fraxinus excelsior</i>	A
Common Ivy	<i>Hedera helix</i>	A
Common Hazel	<i>Corylus avellana</i>	A
Common Hawthorn	<i>Crataegus monogyna</i>	A
Wild Privet	<i>Ligustrum vulgare</i>	F
Elder	<i>Sambucus nigra</i>	F
Scots Pine	<i>Pinus sylvestris</i>	F
Pine species	<i>Pinus sp.</i>	F
Grey Willow	<i>Salix cinerea</i>	F
Bramble	<i>Rubus fruticosus</i> agg.	F
Blackthorn	<i>Prunus spinose</i>	O
European Gorse	<i>Ulex europaeus</i>	O
Sycamore	<i>Acer pseudoplatanus</i>	O
Common Alder	<i>Alnus glutinosa</i>	R

Location: SW 84897 54155

CONIFEROUS PLANTATION WOODLAND (A.1.2.2)

COMMON NAME	SCIENTIFIC NAME	DAFOR
European Larch	<i>Larix decidua</i>	D
Bracken	<i>Pteridium aquilinum</i>	A
Common Ivy	<i>Hendra helix</i>	A
Cherry Laurel	<i>Prunus laurocerasus</i>	O
Sycamore	<i>Acer pseudoplatanus</i>	O

Location: SW 76907 48558

SCRUB SPECIES LIST (A2.1/A2.2)

COMMON NAME	SCIENTIFIC NAME	DAFOR
Bramble (agg.)	<i>Rubus fruticosus (agg)</i>	D
Hawthorn	<i>Crataegus monogyna</i>	D
Bracken	<i>Pteridium aquilinum</i>	A
Hazel	<i>Corylus avellana</i>	A
Butterfly Bush	<i>Buddleja davidii</i>	O
Nettle	<i>Urtica dioica</i>	O
Hart's Tongue Fern	<i>Asplenium scolopendrium</i>	O
Ivy	<i>Hedera helix</i>	O
Wood Avens	<i>Geum urbanum</i>	R

COMMON NAME	SCIENTIFIC NAME	DAFOR
Foxglove	<i>Digitalis purpurea</i>	R
Silver Birch	<i>Betula pendula</i>	R

Location: SW 81305 51918

SEMI-IMPROVED NEUTRAL GRASSLAND (B.2.2)

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	5.8
Yorkshire Fog	<i>Holcus lanatus</i>	5.2
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	5
Springy Turf-moss	<i>Rhytidiadelphus squarrosus</i>	4.6
Common Bird's-foot Trefoil	<i>Lotus corniculatus</i>	3.8
White Clover	<i>Trifolium repens</i>	3.2
Common Knapweed	<i>Centaurea nigra</i>	2.8
Ribwort Plantain	<i>Plantago lanceolata</i>	2.8
Red Fescue	<i>Festuca rubra</i>	3.6
Perennial Rye-grass	<i>Lolium perenne</i>	2.4
Cock's-foot	<i>Dactylis glomerata</i>	2
Neat Feather Moss	<i>Pseudoscleropodium purum</i>	1.8
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	1.6
Bulbous Buttercup	<i>Ranunculus bulbosus</i>	1.2
Heath Grass	<i>Danthonia decumbens</i>	1.8
Yarrow	<i>Achillea millefolium</i>	1.6
Selfheal	<i>Prunella vulgaris</i>	1.6
Cat's-ear	<i>Hypochaeris radicata</i>	1
Silverweed	<i>Potentilla anserina</i>	0.8
Creeping Cinquefoil	<i>Potentilla reptans</i>	0.6
Crested Dog's-tail	<i>Cynosurus cristatus</i>	0.6
Common Mouse-ear	<i>Cerastium fontanum</i>	0.2
Blinks	<i>Montia fontana</i>	0.2
Greater Plantain	<i>Plantago major</i>	0.2
Red Clover	<i>Trifolium pratense</i>	0.2
Meadow Buttercup	<i>Ranunculus acris</i>	0.2
Beaked Hawk's-beard	<i>Crepis vesicaria</i>	0.2

Location: SW 82935 53166

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	6.6
Yorkshire Fog	<i>Holcus lanatus</i>	6.4
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	5.4

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Ribwort Plantain	<i>Plantago lanceolata</i>	3.8
Meadow Buttercup	<i>Ranunculus acris</i>	2.6
A dandelion	<i>Taraxacum officinale (agg.)</i>	2.2
Common Bird's-foot Trefoil	<i>Lotus corniculatus</i>	3.2
Cat's-ear	<i>Hypochaeris radicata</i>	2
Sorrel	<i>Rumex acetosa</i>	1.2
Perennial Rye-grass	<i>Lolium perenne</i>	1.8
Crested Dog's-tail	<i>Cynosurus cristatus</i>	2
Cock's-foot	<i>Dactylis glomerata</i>	2
Smooth Hawk's-beard	<i>Crepis capillaris</i>	1.2
Blackthorn	<i>Prunus spinosa (seedling)</i>	0.4
Hogweed	<i>Heracleum sphondylium</i>	0.8
Common Knapweed	<i>Centaurea nigra</i>	0.6
Tufted Vetch	<i>Vicia cracca</i>	0.6
Red Clover	<i>Trifolium pratense</i>	0.6
Springy Turf-moss	<i>Rhytidiadelphus squarrosus</i>	0.6
Meadow Vetchling	<i>Lathyrus pratensis</i>	0.4
Selfheal	<i>Prunella vulgaris</i>	0.4
Rough-stalked Feather-moss	<i>Brachythecium rutabulum</i>	0.4
White Clover	<i>Trifolium repens</i>	0.2
Common Vetch	<i>Vicia sativa</i>	0.2
Common Ragwort	<i>Senecio jacobaeae</i>	0.2

Location: SW 82351 52905

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	7
Yorkshire Fog	<i>Holcus lanatus</i>	6.4
Ribwort Plantain	<i>Plantago lanceolata</i>	3.6
Meadow Buttercup	<i>Ranunculus acris</i>	2
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	4.6
White Clover	<i>Trifolium repens</i>	2.4
Crested Dog's-tail	<i>Cynosurus cristatus</i>	3
Common Knapweed	<i>Centaurea nigra</i>	2.4
Perennial Rye-grass	<i>Lolium perenne</i>	2
Cat's-ear	<i>Hypochaeris radicata</i>	1.8
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	1.4
Silverweed	<i>Potentilla anserina</i>	1.2
Red Clover	<i>Trifolium pratense</i>	1.2
Smooth Hawk's-beard	<i>Crepis capillaris</i>	1.2
Common Bird's-foot Trefoil	<i>Lotus corniculatus</i>	1.4

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Yellow Bartsia	<i>Parentucellia viscosa</i>	1.2
Creeping Buttercup	<i>Ranunculus repens</i>	1
Curled Dock	<i>Rumex crispus</i>	0.6
Selfheal	<i>Prunella vulgaris</i>	0.4
Scarlet Pimpernel	<i>Anagallis arvensis</i>	0.4
Broad-leaved Dock	<i>Rumex obtusifolius</i>	0.4
Sticky Mouse-ear	<i>Cerastium glomeratum</i>	0.4
Rough-stalked Meadow Grass	<i>Poa trivialis</i>	0.4
Cock's-foot	<i>Dactylis glomerata</i>	0.4
Creeping Cinquefoil	<i>Potentilla reptans</i>	0.2
Common Mouse-ear	<i>Cerastium fontanum</i>	0.2
Toad Rush	<i>Juncus bufonius</i>	0.2
Sorrel	<i>Rumex acetosa</i>	0.2
Beaked Hawk's-beard	<i>Crepis vesicaria</i>	0.2

Location: SW 74859 47268

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	6.6
Yorkshire Fog	<i>Holcus lanatus</i>	6.2
Crested Dog's-tail	<i>Cynosurus cristatus</i>	5.4
Common Knapweed	<i>Centaurea nigra</i>	5.4
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	5.2
Ribwort Plantain	<i>Plantago lanceolata</i>	5.2
Common Bird's-foot Trefoil	<i>Lotus corniculatus</i>	5
Perennial Rye-grass	<i>Lolium perenne</i>	2
White Clover	<i>Trifolium repens</i>	1.6
Cat's-ear	<i>Hypochaeris radicata</i>	1.4
Red Clover	<i>Trifolium pratense</i>	1.4
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	1.2
Selfheal	<i>Prunella vulgaris</i>	1
Common Mouse-ear	<i>Cerastium fontanum</i>	0.8
Smaller Cat's-tail	<i>Phleum bertelonii</i>	1.2
Yellow Bartsia	<i>Parentucellia viscosa</i>	0.8
Cock's-foot	<i>Dactylis glomerata</i>	0.8
Smooth Meadow Grass	<i>Poa pratensis</i>	0.6
Beaked Hawk's-beard	<i>Crepis vesicaria</i>	0.6
Creeping Buttercup	<i>Ranunculus repens</i>	0.4
Springy Turf-moss	<i>Rhytidiadelphus squarrosus</i>	0.4
Annual Meadow Grass	<i>Poa annua</i>	0.4
Blackthorn	<i>Prunus spinosa (seedling)</i>	0.4

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Meadow Buttercup	<i>Ranunculus acris</i>	0.4
Sorrel	<i>Rumex acetosa</i>	0.2

Location: SW 74857 47374

IMPROVED GRASSLAND (B.4)

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Perennial Rye Grass	<i>Lolium perenne</i>	D
Yorkshire Fog	<i>Holcus lanatus</i>	D
Creeping Buttercup	<i>Ranunculus repens</i>	A
White Clover	<i>Trifolium repens</i>	A
Meadow foxtail	<i>Alopecurus pratensis</i>	O
Common Bent-grass	<i>Agrostis capillaris</i>	O
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	O
Creeping Thistle	<i>Cirsium arvense</i>	O
Common Mouse-ear	<i>Cerastium fontanum</i>	O
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	O
Silverweed	<i>Potentilla anserina</i>	R
Marsh Thistle	<i>Cirsium palustre</i>	R
Hop trefoil	<i>Trifolium campestre</i>	R
Ribwort Plantain	<i>Plantago lanceolata</i>	R
Sorrel	<i>Rumex acetosa</i>	R
Meadow Vetchling	<i>Lathyrus pratensis</i>	R

Location: SW 84522 53962

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Perennial Rye Grass	<i>Lolium perenne</i>	D
Yorkshire Fog	<i>Holcus lanatus</i>	D
Common Mouse-ear	<i>Cerastium fontanum</i>	F
Creeping Buttercup	<i>Ranunculus repens</i>	F
White Clover	<i>Trifolium repens</i>	O
Rough meadow-grass	<i>Poa trivialis</i>	R
Sorrel	<i>Rumex acetosa</i>	R
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	R

Location: SW 83395 53234

MARSHY GRASSLAND (B.5) SPECIES LIST

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Soft Rush	<i>Juncus effusus</i>	7.6
Yorkshire Fog	<i>Holcus lanatus</i>	6.2
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	5
Creeping Bent-grass	<i>Agrostis stolonifera</i>	3.2
Greater Bird's-foot Trefoil	<i>Lotus pedicularis</i>	2.6
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	2.2
Perennial Rye-grass	<i>Lolium perenne</i>	2.2
Marsh Thistle	<i>Cirsium palustre</i>	2
Greater Bird's-foot Trefoil	<i>Lotus pedicularis</i>	2
Meadow Buttercup	<i>Ranunculus acris</i>	2
Creeping Buttercup	<i>Ranunculus repens</i>	1.8
Marsh Bedstraw	<i>Galium palustre</i>	1.6
Meadow Buttercup	<i>Ranunculus acris</i>	1.4
Common Nettle	<i>Urtica dioica</i>	1.2
Cuckooflower	<i>Cardamine pratensis</i>	1
Perennial Rye-grass	<i>Lolium perenne</i>	1
Common Feather-moss	<i>Kindbergia praelonga</i>	1
Creeping Buttercup	<i>Ranunculus repens</i>	1
Ribwort Plantain	<i>Plantago lanceolata</i>	1
Soft Rush	<i>Juncus effusus</i>	1
Square-stalked St John's-wort	<i>Hypericum tetrapterum</i>	0.6
Creeping Cinquefoil	<i>Potentilla reptans</i>	0.6
Water Forget-me-not	<i>Myosotis scorpioides</i>	0.6
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	0.6
Sticky Mouse-ear	<i>Cerastium glomeratum</i>	0.4
Bramble (agg.)	<i>Rubus fruticosus (agg)</i>	0.4
Lesser Spearwort	<i>Ranunculus flammula</i>	0.4
Curled Dock	<i>Rumex crispus</i>	0.4
Common Fleabane	<i>Pulicaria dysenterica</i>	0.4
Red Campion	<i>Silene dioica</i>	0.4
Grey Willow	<i>Salix cinerea</i>	0.4
Jointed Rush	<i>Juncus articulatus</i>	0.4
Creeping Thistle	<i>Cirsium arvense</i>	0.4
Greater Plantain	<i>Plantago major</i>	0.2
Lady Fern	<i>Athyrium filix-femina</i>	0.2
Marsh Thistle	<i>Cirsium palustre</i>	0.2

Location: SW 83493 53258

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Yorkshire Fog	<i>Holcus lanatus</i>	6.8
Soft Rush	<i>Juncus effusus</i>	6.6
Creeping Bent-grass	<i>Agrostis stolonifera</i>	6
Creeping Buttercup	<i>Ranunculus repens</i>	4.2
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	4
Greater Bird's-foot Trefoil	<i>Lotus pedicularis</i>	3.8
Meadow Buttercup	<i>Ranunculus acris</i>	3.4
Curled Dock	<i>Rumex crispus</i>	1.8
Marsh Thistle	<i>Galium palustre</i>	1.8
Ribwort Plantain	<i>Plantago lanceolata</i>	1
Timothy	<i>Phleum pratense</i>	1.4
Marsh Thistle	<i>Cirsium palustre</i>	0.6
Square-stalked St John's-wort	<i>Hypericum tetrapterum</i>	0.4
Sticky Mouse-ear	<i>Cerastium glomeratum</i>	0.2

Location: SW 80027 50167

POOR SEMI-IMPROVED GRASSLAND (B.6)

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	D
Yorkshire Fog	<i>Holcus lanatus</i>	O
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	F
Creeping Buttercup	<i>Ranunculus repens</i>	O
Dandelion (agg.)	<i>Taraxacum officinale (agg.)</i>	O
Ribwort Plantain	<i>Plantago lanceolata</i>	O
Sorrel	<i>Rumex acetosa</i>	R
Silverweed	<i>Potentilla anserina</i>	R
Common Mouse-ear	<i>Cerastium fontanum</i>	R
Common fleabane	<i>Pulicaria dysenterica</i>	R
Toad rush	<i>Juncus bufonius</i>	R
Hop trefoil	<i>Trifolium campestre</i>	R
Red clover	<i>Trifolium pratense</i>	R

Location: SW 81975 52797

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Common Bent-grass	<i>Agrostis capillaris</i>	D
Yorkshire Fog	<i>Holcus lanatus</i>	F
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	F
Meadow Foxtail	<i>Alopecurus pratensis</i>	O
Creeping Buttercup	<i>Ranunculus repens</i>	O

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Dandelion (Agg.)	<i>Taraxacum officinale (agg.)</i>	O
Perennial Rye Grass	<i>Lolium perenne</i>	R
Ribwort Plantain	<i>Plantago lanceolata</i>	R
Common Mouse-ear	<i>Cerastium fontanum</i>	R
Creeping Thistle	<i>Cirsium arvense</i>	R
White Clover	<i>Trifolium repens</i>	R
Germander Speedwell	<i>Veronica chamaedrys</i>	R

Location: SW 79895 50472

TALL RUDERALS (C.3.1)

COMMON NAME	SCIENTIFIC NAME	DAFOR
Creeping Thistle	<i>Cirsium arvense</i>	D
Rosebay Willowherb	<i>Chamerion angustifolium</i>	D
Nettle	<i>Urtica dioica</i>	D
Broad-Leaved Dock	<i>Rumex obtusifolius</i>	D
Spear Thistle	<i>Cirsium vulgare</i>	A
Hogweed	<i>Heracleum sphondylium</i>	A
Cock's Foot	<i>Dactylis glomerata</i>	A
Ragwort	<i>Senecio jacobaea</i>	F
Teasel	<i>Dipsacus fullonum</i>	F

Location: Taken from across the site

DRY DWARF SHRUB HEATH (D.1)

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Bell Heather	<i>Erica cinerea</i>	8
Western Gorse	<i>Ulex gallii</i>	8
Dorset Heath	<i>Erica ciliaris</i>	7
Neat Feather-Moss	<i>Pseudoscleropodium cf. purum</i>	6
Woolly Fringe-Moss	<i>Racomitrium lanuginosum</i>	6
Heather	<i>Calluna vulgaris</i>	5
Bulbous Rush	<i>Juncus bulbosus</i>	5
Molinia Caerulea	<i>Molinia caerulea</i>	5
Bog Asphodel	<i>Narthecium ossifragum</i>	5
Eared Willow	<i>Salix aurita</i>	5
Black Bog-Rush	<i>Schoenus nigricans</i>	5
Bristle Bent	<i>Agrostis curtisii</i>	4
Hard Fern	<i>Blechnum spicant</i>	4
Cross-leaved Heath	<i>Erica tetralix</i>	4
Compact Rush	<i>Juncus conglomeratus</i>	4

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Royal Fern	<i>Osmunda regalis</i>	4
Bramble	<i>Rubus fruticosus</i> agg.	4
Compact Bog-moss	<i>Sphagnum cf. compactum</i>	4
Wood Sage	<i>Teucrium scorodonia</i>	4
Common Yellow-sedge	<i>Carex demissa</i>	3
Yorkshire Fog	<i>Holcus lanatus</i>	3
Juniper Haircap Moss	<i>Polytrichum juniperinum</i>	3
Tormentil	<i>Potentilla erecta</i>	3
Heath Dog Violet	<i>Viola canina</i>	3
Common Lady-fern	<i>Athyrium filix-femina</i>	1
Marsh Thistle	<i>Cirsium palustre</i>	1

Location: SW 83945 53681

ARABLE (J.1.1)

COMMON NAME	SCIENTIFIC NAME	DAFOR
Barley	<i>Hordeum vulgare</i>	D
Wheat	<i>Triticum sp.</i>	D
Scentless Mayweed	<i>Tripleurospermum inodorum</i>	R
Knotgrass	<i>polygonum aviculare</i>	R
Nipplewort	<i>Lapsana communis</i>	R
Groundsel	<i>Senecio vulgaris</i>	R

Location: Taken from across the site.

AMENITY GRASSLAND (J.1.2)

COMMON NAME	SCIENTIFIC NAME	DOMIN (MEAN)
Yorkshire fog	<i>Holcus lanatus</i>	D
Common Bent-grass	<i>Agrostis capillaris</i>	A
Crested Dog's-tail	<i>Cynosurus cristatus</i>	A
Common Mouse-ear	<i>Cerastium fontanum</i>	F
Ribwort Plantain	<i>Plantago lanceolata</i>	F
Sheep Sorrel	<i>Rumex acetosella</i>	O
Common Knapweed	<i>Centaurea nigra</i>	O
Dandelion	<i>Taraxacum officinale</i>	O
Daisy	<i>Bellis perennis</i>	O
White Clover	<i>Trifolium repens</i>	O
Creeping Buttercup	<i>Ranunculus repens</i>	O
Creeping Cinquefoil	<i>Potentilla reptans</i>	R
Selfheal	<i>Prunella vulgaris</i>	R
Hawkbeard Sp.	<i>Crepis sp.</i>	R

Location: Taken from across the site

HEDGEROWS (J.2.1.1 / J.2.1.2 / J.2.2.2 / J.2.3.1 / J.2.3.2)

COMMON NAME	SPECIES	DAFOR
Blackthorn	<i>Prunus spinose</i>	D
Bramble	<i>Rubus fruticosus agg.</i>	D
Hawthorn	<i>Crataegus monogyna</i>	D
Dog Rose	<i>Rosa canina</i>	O
Elder	<i>Sambucus nigra</i>	O
Ash	<i>Fraxinus excelsior</i>	R
Bird Cherry	<i>Prunus padus</i>	R
Grey Willow	<i>Salix cinerea</i>	R
Hedge Bindweed	<i>Calystegia sepium</i>	R
Holly	<i>Ilex aquifolium</i>	R
Sycamore	<i>Acer pseudoplatanus</i>	R
Wild Privet	<i>Ligustrum vulgare</i>	R
Broad Buckler-Fern	<i>Dryopteris dilatata</i>	-
Barren Brome	<i>Bromus sterilis</i>	-
Black Spleenwort	<i>Asplenium adiantum-nigrum</i>	-
Bluebell	<i>Hyacinthoides non-scripta</i>	-
Broad Leaved Dock	<i>Rumex obtusifolius</i>	-
Cleaver	<i>Galium aparine</i>	-
Cock's Foot	<i>Dactylus glomerata</i>	-
Common Dog Violet	<i>Viola riviniana</i>	-
Common Polypody	<i>Polypodium vulgare</i>	-
Dog's Mercury	<i>Mercurialis perennis</i>	-
Enchanter's Nightshade	<i>Circaea lutetiana</i>	-
Foxglove	<i>Digitalis purpurea</i>	-
Germander Speedwell	<i>Veronica chamaedrys</i>	-
Hart's Tongue Fern	<i>Asplenium scolopendrium</i>	-
Hedge Bedstraw	<i>Galium album</i>	-
Herb Robert	<i>Geranium robertianum</i>	-
Hogweed	<i>Heracleum sphondylium</i>	-
Honeysuckle	<i>Lonicera periclymenum</i>	-
Ivy	<i>Hedera helix</i>	-
Lady Fern	<i>Athyrium filix-femina</i>	-
Lords And Ladies	<i>Arum maculatum</i>	-
Male Fern	<i>Dryopteris filix-mas</i>	-
Nettle	<i>Urtica dioica</i>	-
Red Campion	<i>Silene dioica</i>	-
Scaly Male Fern	<i>Dryopteris affinis</i>	-
Sheep Sorrel	<i>Rumex acetosella</i>	-
Smooth Sow Thistle	<i>Sonchus oleraceus</i>	-
Soft Shield Fern	<i>Polystichum setiferum</i>	-
Stinking Iris	<i>Iris foetidissima</i>	-
Sweet Vernal Grass	<i>Anthoxanthum odoratum</i>	-
Wall Pennywort	<i>Umbilicus rupestris</i>	-
Wood Avens	<i>Geum urbanum</i>	-
Wood Sage	<i>Teucrium scorodonia</i>	-

Location: Taken from across the site

If you need help accessing this or any other Highways England information, please call **0300 123 5000** and we will help you.

A30 Chiverton to Carland Cross Improvement Scheme Preliminary Environmental Information Report

PEIR Appendix 8.4 River Habitat Appraisal

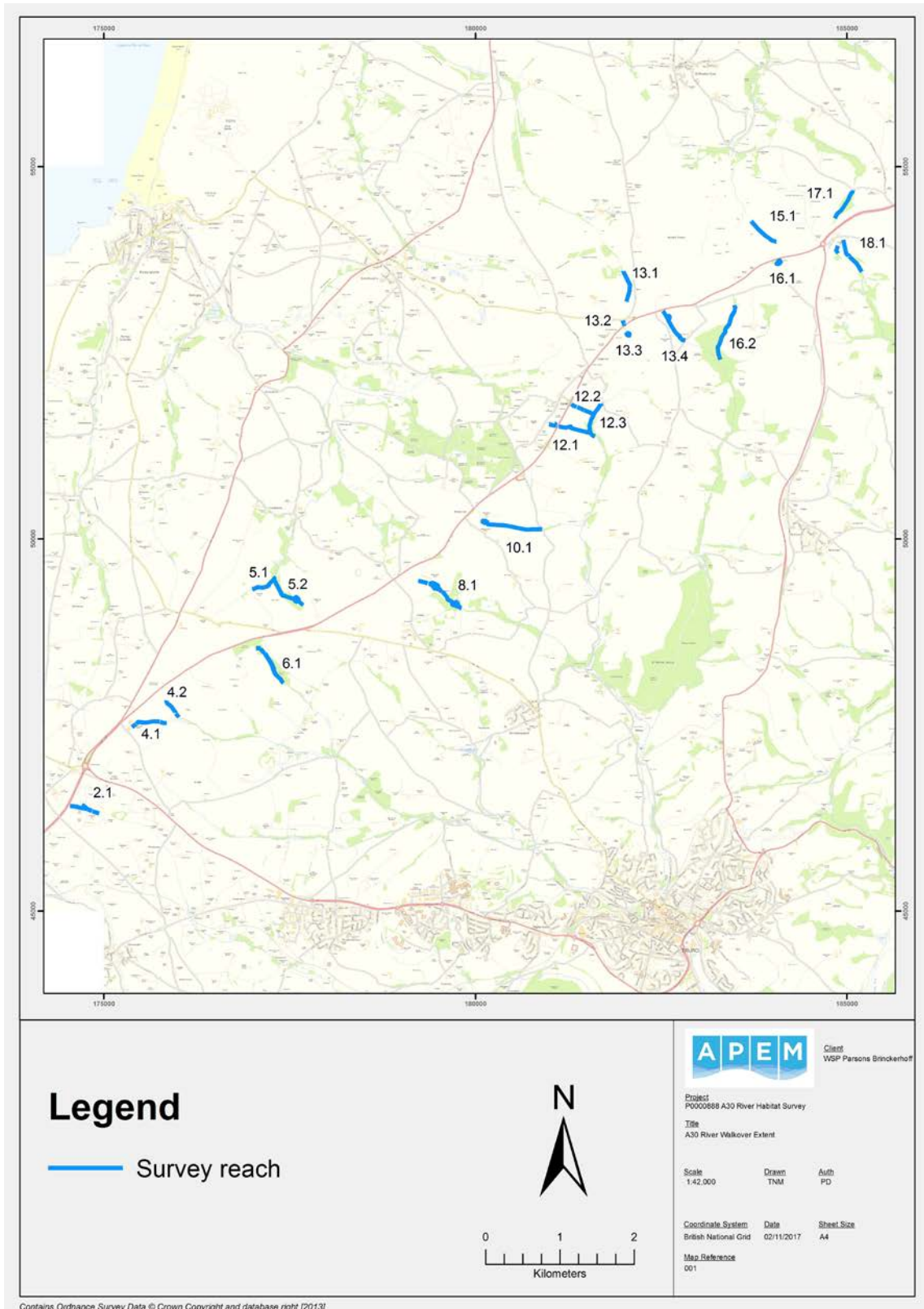


Figure 2-1 The extent of the reaches covered by the habitat walkover survey (note 13.3 and 16.1 are stillwaters)

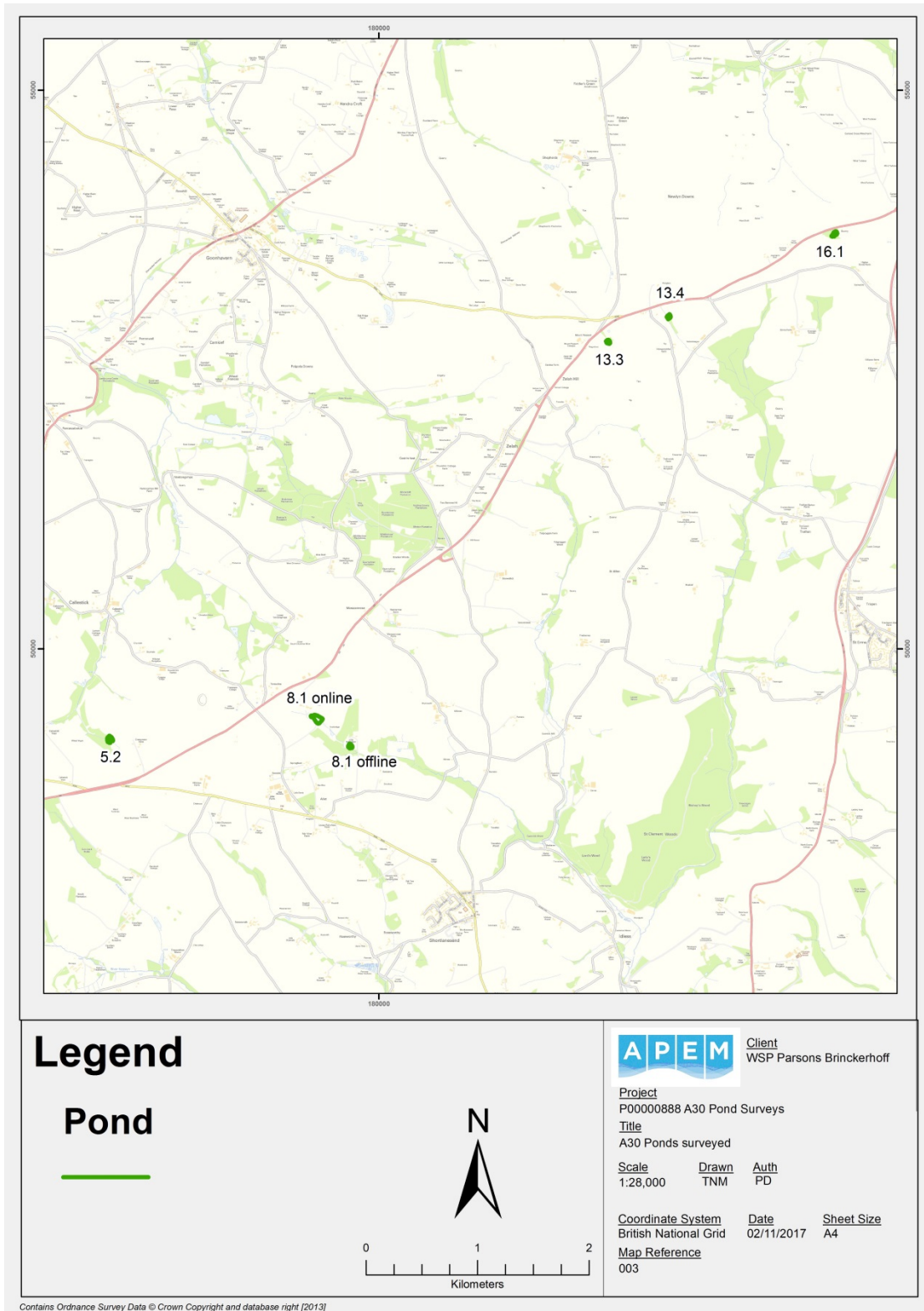


Figure 2–2 Location of the ponds surveyed

3. Results

There were 18 reaches in the survey area which may be impacted by the proposed works. Due to the independent and varied nature of each reach the findings of the walkover survey are discussed on a reach by reach basis below. An example of the GIS mapping of habitat is provided in Figure 3–1. The full extent of the habitat data will be provided in GIS format.



Figure 3–1 An example of the fish habitat mapping output.

If you need help accessing this or any other Highways England information, please call **0300 123 5000** and we will help you.

A30 Chiverton to Carland Cross Improvement Scheme Preliminary Environmental Information Report

PEIR Appendix 8.5 National Vegetation
Classification Survey Report of Heathland and
Woodland

Appendix A

HEATHLAND NVC RESULTS

Table 4.1 Vegetation Type 1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Erica cinerea</i>	9	8	9	7	8	V	7 to 9
<i>Calluna vulgaris</i>	5	5		4	5	IV	4 to 5
<i>Ulex gallii</i>	7	9	7		7	IV	7 to 9
<i>Molinia caerulea</i>	5				4	II	4 to 5
<i>Agrostis curtisii</i>	4					I	4
<i>Potentilla erecta</i>					3	I	3
Description	Relatively tall stand of dwarf shrub heath, including some leggy examples of <i>Calluna vulgaris</i> . Graminoids and herbs were limited within the sward. The sward height was approximately 40 - 50 cm.						
Management	No signs of management						

Table 4.2 Vegetation Type 2

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Agrostis curtisii</i>	7	4	8	9	6	V	4 to 7
<i>Calluna vulgaris</i>	3	4	4	3	5	V	3 to 5
<i>Erica cinerea</i>	7	7	7	6	7	V	6 to 7
<i>Teucrium scorodonia</i>	3	3	3	4	4	V	3 to 4
<i>Ulex gallii</i>	5	7	7	6	6	V	5 to 7
<i>Molinia caerulea</i>		7	5	4	7	IV	4 to 7
<i>Potentilla erecta</i>	4		4	3	4	IV	3 to 4
<i>Rubus fruticosus</i> agg.	4	3	5	5		IV	3 to 5
<i>Racomitrium lanuginosum</i>	3	5		4	7	IV	4 to 7
<i>Carex demissa</i>			3			I	3
<i>Holcus lanatus</i>	3					I	3
<i>Viola canina</i>				3		I	3
<i>Polytrichum juniperinum</i>	3					I	3
Description	Dry, graminoid dominated vegetation stand located along the western extent of the survey area. Ericaceous shrubs were constant within the stand. The sward height was approximately 30 – 40 cm. No signs of management. N.B. Dorset heath was recorded within this habitat type (see Figure 1 for location).						
Management	No signs of management						

Table 4.3 Vegetation Type 3

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Calluna vulgaris</i>	5	7	7	6	5	V	5 to 7
<i>Erica cinerea</i>	8	8	7	7	7	V	7 to 8
<i>Molinia caerulea</i>	5	3	5	6	7	V	3 to 7
<i>Ulex gallii</i>	8	7	6	7	5	V	6 to 8
<i>Pseudoscleropodium cf. purum</i>		5	6	6	7	IV	5 to 7
<i>Erica tetralix</i>			6	4		II	4 to 6
Description	Tall stand of dwarf shrub heath, approximately 50 cm in height. Stand dominated by gorse and leggy stands of heather. Tussocks of grasses (<i>Molinia caerulea</i>) featured regularly within the sample area. No signs of management.						
Management	No signs of management						

Table 4.4 Hybrid *Erica ciliaris* (Dorset heath) recorded within Site 1



Table 4.5 Newlyn Downs SSSI/SAC

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	RANGE
<i>Calluna vulgaris</i>	5	5	5	3	4 to 5
<i>Molinia caerulea</i>	4	1	8	8	1 to 8
<i>Erica cinerea</i>	7	7	5		5 to 7
<i>Ulex gallii</i>	6	7	5		5 to 7
<i>Agrostis curtisii</i>	1		2		1 to 2
<i>Carex demissa</i>			2	5	2 to 5
<i>Erica ciliaris</i>	7		7		7
<i>Potentilla erecta</i>			5	4	4 to 5
<i>Athyrium filix-femina</i>				1	1
<i>Blechnum spicant</i>				4	4
<i>Cirsium palustre</i>				1	1
<i>Erica tetralix</i>				4	4
<i>Juncus bulbosus</i>				5	5
<i>Juncus conglomeratus</i>				4	4
<i>Narthecium ossifragum</i>				5	5
<i>Osmunda regalis</i>				4	4
<i>Salix aurita</i>				5	5
<i>Schoenus nigricans</i>				5	5
<i>Sphagnum cf. compactum</i>				4	4
Description	Relatively diverse sward dominated by gorse and heather species and some grasses. Sward height around 40 cm. Graduates into scrub to the south and east.				
Management	Low intensity cattle grazing (native breeds noted)				

Appendix B

WOODLAND NVC RESULTS

Table 4.6 Site 1 – Stand 1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Corylus avellana</i>	9	9	9	9	5	V	5 to 9
<i>Dryopteris dilatata</i>	5	7	5		5	IV	5 to 7
<i>Hedera helix</i>	7	5	5		6	IV	5 to 7
<i>Lonicera periclymenum</i>	3	4	3	7		IV	3 to 7
<i>Rubus fruticosus</i> agg.		5	5	5	7	IV	5 to 7
<i>Atrichum undulatum</i>	5	3			5	III	3 to 5
<i>Blechnum spicant</i>	3			4	4	III	3 to 4
<i>Crataegus monogyna</i>	5	5			5	III	5
<i>Hyacinthoides non-scripta</i>	5		10	10		III	5 to 10
<i>Kindbergia praelonga</i>			4	4	7	III	4 to 7
<i>Prunus spinosa</i>			4	4	5	III	4 to 5
<i>Circaea lutetiana</i>		5			3	II	3 to 5
<i>Dryopteris affinis</i> agg.		7			5	II	5 to 7
<i>Galium aparine</i>	3	3				II	3
<i>Heracleum sphondylium</i>	7	4				II	4 to 7
<i>Mnium hornum</i>					4	II	4
<i>Polypodium vulgare</i> agg.			4		4	II	4
<i>Quercus robur</i>	4	4				II	4
<i>Salix caprea</i>	3				7	II	3 to 7
<i>Acer pseudoplatanus</i>	3					I	3
<i>Anemone nemorosa</i>			4			I	4
<i>Angelica sylvestris</i>	3					I	3
<i>Asplenium scolopendrium</i>	3					I	3
<i>Dryopteris filix-mas</i>	4					I	4
<i>Geranium robertianum</i>	4					I	4
<i>Geum urbanum</i>		3				I	3
<i>Holcus lanatus</i>					3	I	3
<i>Ilex aquifolium</i>	4					I	4
<i>Isoetes macrospora</i>					7	I	7
<i>Poa nemoralis</i>	3					I	3
<i>Prunus</i> sp.	3					I	3
<i>Silene dioica</i>					3	I	3
<i>Tamus communis</i>	4					I	4
Bare ground %	30	40	40	15	30		
Description	Woodland is located on a gently sloping gradient. Understorey varies between dense and sparse. It is split into areas of wet and dry woodland (wet forms a separate vegetation community). Mosses were noted on trunks.						

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
Management	None apparent – possible deer grazing						

Table 4.7 Site 1 – Stand 2

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Salix caprea</i>	9	8	8	9	9	V	8 to 9
<i>Corylus avellana</i>	5	8	8	5		IV	5 to 8
<i>Galium palustre</i>	3		5	4	4	IV	3 to 5
<i>Lonicera periclymenum</i>	7	7		4	6	IV	4 to 7
<i>Rubus fruticosus</i> agg.	7	8		7	6	IV	6 to 8
<i>Thuidium tamariscinum</i>	7		6	5	4	IV	4 to 7
<i>Athyrium filix-femina</i>			3	4	4	III	3 to 4
<i>Blechnum spicant</i>	4		4	5		III	4 to 5
<i>Crataegus monogyna</i>		4	4	4		III	4
<i>Galium aparine</i>		4	3		3	III	3 to 4
<i>Geranium robertianum</i>		7	3		4	III	3 to 7
<i>Hedera helix</i>	7		4		6	III	4 to 7
<i>Ilex aquifolium</i>	4	4	4			III	4
<i>Osmunda regalis</i>	7			3	3	III	3 to 7
<i>Quercus robur</i>	4	5	5			III	4 to 5
<i>Solanum dulcamara</i>		4	5		3	III	3 to 5
<i>Cardamine flexuosa</i>			3		4	II	3 to 4
<i>Chrysosplenium oppositifolium</i>		10	5			II	5 to 10
<i>Dryopteris dilatata</i>	6			6	5	II	5 to 6
<i>Holcus mollis</i>		7	4			II	4 to 7
<i>Isoetes myosuroides</i>	7				5	II	5 to 7
<i>Mentha aquatica</i>			5		5	II	5
<i>Polypodium vulgare</i> agg.	4	6				II	4 to 6
<i>Ranunculus ficaria</i>		4			3	II	3 to 4
<i>Sambucus nigra</i>		4	4			II	4
<i>Veronica montana</i>		3			3	II	3
<i>Angelica sylvestris</i>					5	I	5
<i>Atrichum undulatum</i>			5			I	5
<i>Carex pendula</i>					4	I	4
<i>Carex remota</i>				4		I	4
<i>Circaea lutetiana</i>				3		I	3
<i>Cirsium palustre</i>					3	I	3

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Filipendula ulmaria</i>			7			I	7
<i>Glechoma hederacea</i>					4	I	4
<i>Juncus articulatus</i>	4					I	4
<i>Juncus effusus</i>					4	I	4
<i>Luzula sylvatica</i>					3	I	3
<i>Polytrichum formosum</i>	3					I	3
<i>Ranunculus repens</i>		4				I	4
<i>Rosa canina</i>	4					I	4
<i>Rumex sanguineus</i>					3	I	3
<i>Sphagnum</i> sp.				5		I	5
<i>Urtica dioica</i>		4				I	4
Bare ground %	40	10	30	20	20		
Description	Wet woodland with a high cover of mosses in the understorey. No signs of management however deer grazing possible. Canopy averaging 8m in height with the understorey around 1m.						
Management	None apparent – possible deer grazing						

Table 4.8 Site 3

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Corylus avellana</i>	5	5	5	5	5	V	5
<i>Crataegus monogyna</i>	4	4	4	4	4	V	4
<i>Geranium robertianum</i>	3	5	4	4	4	V	3 to 5
<i>Hedera helix</i>	5	6	6	6	7	V	5 to 7
<i>Quercus robur</i>	4	4	4	4	4	V	4
<i>Salix cinerea</i>	9	9	9	9	9	V	9
<i>Sambucus nigra</i>	4	4	4	4	4	V	4
<i>Dryopteris dilatata</i>	4	5		5	5	IV	4 to 5
<i>Rubus fruticosus</i> agg.	7	5	4		7	IV	4 to 7
<i>Geum urbanum</i>	4		4		5	III	4 to 5
<i>Thuidium tamariscinum</i>		4		5	5	III	4 to 5
<i>Galium aparine</i>		5		3		II	3 to 5
<i>Hyacinthoides non-scripta</i>		6	7			II	6 to 7
<i>Rumex sanguineus</i>	3				5	II	3 to 5
<i>Athyrium filix-femina</i>	4					I	4
<i>Circaea lutetiana</i>	3					I	3
<i>Isoetes macrospora</i>		5				I	5
<i>Juncus effusus</i>	2					I	2
<i>Lonicera periclymenum</i>		4				I	4

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Osmunda regalis</i>		4				I	4
<i>Polytrichum formosum</i>				4		I	4
<i>Ranunculus repens</i>					5	I	5
<i>Viola riviniana</i>					5	I	5
Description	Wet woodland with thick willow canopy 10m high. Stream through centre, large areas of bare ground and patches of herbaceous species and scrub.						
Management	No evidence						

Table 4.9 Site 6A – Stand 1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Acer pseudoplatanus</i>	4	5	4	4	4	V	4 to 5
<i>Fagus sylvatica</i>	7	8	7	8	7	V	7 to 8
<i>Fraxinus excelsior</i>	4	7	8	6	8	V	4 to 8
<i>Rubus fruticosus</i> agg.	7	4	5	4	3	V	3 to 7
<i>Hedera helix</i>		9	8	8	7	IV	7 to 9
<i>Ilex aquifolium</i>	5		4	4	4	IV	4 to 5
Bryophytes sp.		10	6	8	9	IV	6 to 10
<i>Castanea sativa</i>	4			4	4	III	4
<i>Corylus avellana</i>	6	5	5			III	5 to 6
<i>Fraxinus excelsior</i>	7	4			3	III	3 to 7
<i>Lonicera periclymenum</i>			7	4	4	III	4 to 7
<i>Quercus robur</i>	4	4	4			III	4
<i>Rubus fruticosus</i> agg.	8	4	4			III	4 to 8
<i>Taxus baccata</i>		6	5		4	III	4 to 6
<i>Carpinus betulus</i>				4	5	II	4 to 5
<i>Carpinus betulus</i>		4			4	II	4
<i>Crataegus monogyna</i>			4	4		II	4
<i>Dryopteris affinis</i> agg.		4		4		II	4
<i>Pinus</i> sp.	7		4			II	4 to 7
<i>Prunus laurocerasus</i>	8			6		II	6 to 8
<i>Rhododendron ponticum</i>	4		4			II	4
<i>Taxus baccata</i>				4	4	II	4
<i>Agrostis stolonifera</i>	5					I	5
<i>Betula pendula</i>	4					I	4
<i>Blechnum spicant</i>	4					I	4
<i>Carex pendula</i>	1					I	1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Carex sp.</i>	4					I	4
<i>Corylus avellana</i>	6					I	6
<i>Digitalis purpurea</i>	4					I	4
<i>Hedera helix</i>			4			I	4
<i>Holcus lanatus</i>	5					I	5
<i>Hypericum pulchrum</i>	4					I	4
<i>Ilex aquifolium</i>		4				I	4
<i>Juncus inflexus</i>	4					I	4
<i>Leycesteria formosa</i>	7					I	7
<i>Leycesteria formosa</i>	4					I	4
<i>Picea sp.</i>	5					I	5
<i>Poa trivialis</i>	5					I	5
<i>Primula vulgaris</i>		4				I	4
<i>Quercus robur</i>	1					I	1
<i>Senecio jacobaea</i>	1					I	1
Bare ground %	50	30					
Description	Beech and ash woodland with a range of species within the understorey and ground layer. Ornamental / non-native species present.						
Management	No evidence						

Table 4.10 Site 6A – Stand 4

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Fagus sylvatica</i>	8	6	7	8	7	V	6 to 8
<i>Hedera helix</i>	4	5	4	4	8	V	4 to 8
Bryophytes sp.	4	7	5	4	7	V	4 to 7
<i>Prunus laurocerasus</i>	6	7	7	6		IV	6 to 7
<i>Acer pseudoplatanus</i>	5		5		6	III	5 to 6
<i>Asplenium scolopendrium</i>			4		1	III	1 to 4
<i>Blechnum spicant</i>	4	5			1	III	1 to 5
<i>Corylus avellana</i>		7		7	4	III	4 to 7
<i>Dryopteris affinis</i> agg.	4		5		5	III	4 to 5
<i>Dryopteris filix-mas</i>	1		4	4		III	1 to 4
<i>Fraxinus excelsior</i>		7	8		8	III	7 to 8
<i>Ilex aquifolium</i>	1			4	4	III	1 to 4
<i>Taxus baccata</i>	4		4		4	III	4
<i>Carex pendula</i>	1	5				II	1 to 5
<i>Castanea sativa</i>		5		4		II	4 to 5

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Circaea lutetiana</i>		4			5	II	4 to 5
<i>Fraxinus excelsior</i>	4	4				II	4
<i>Pinus</i> sp.			4	5		II	4 to 5
<i>Quercus robur</i>	5				4	II	4 to 5
<i>Rubus fruticosus</i> agg.	4	4			8	II	4 to 8
<i>Rubus fruticosus</i> agg.	5	4		4		II	4 to 5
<i>Taxus baccata</i>	1				4	II	1 to 4
<i>Acer pseudoplatanus</i>					4	I	4
<i>Carex remota</i>		4				I	4
<i>Corylus avellana</i>					4	I	4
<i>Crataegus monogyna</i>					4	I	4
<i>Crataegus monogyna</i>					5	I	4
<i>Fagus sylvatica</i>	3					I	3
<i>Ilex aquifolium</i>				4		I	4
<i>Juncus effusus</i>		5				I	5
<i>Juncus inflexus</i>		4				I	4
<i>Lonicera periclymenum</i>					4	I	4
<i>Polytrichum</i> [spp]		4				I	4
<i>Rhododendron ponticum</i>	4					I	4
<i>Rhododendron ponticum</i>	4			4		I	4
<i>Salix caprea</i>		5				I	5
<i>Veronica hederifolia</i>		5				I	5
Liverwort sp.		4				I	4
Bare ground %	80	5	70	85	20		
Description	Mixed and often damp woodland dominated by beech, ash and ferns.						
Management	No evidence						

Table 4.11 Site 7 – Stand 1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Acer pseudoplatanus</i>	9	9	9	9	9	V	9
<i>Corylus avellana</i>	4	4	4	4	4	V	4
<i>Fraxinus excelsior</i>	5	5	4	4	4	V	4 to 5
<i>Hedera helix</i>	9	9	9	9	9	V	9
<i>Ilex aquifolium</i>	4	4	5	5	5	V	4 to 5
<i>Quercus robur</i>	4	4	4	4	3	V	3 to 4

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Sambucus nigra</i>	4	4	4	4	4	V	4
<i>Circaea lutetiana</i>	5	4	4	5		IV	4 to 5
<i>Galium aparine</i>	5	4	5	5		IV	4 to 5
<i>Ranunculus ficaria</i>	4	3		5	6	IV	3 to 6
<i>Rubus fruticosus</i> agg.		4	4	4	4	IV	4
<i>Hyacinthoides non-scripta</i>			9	9	8	III	8 to 9
<i>Asplenium scolopendrium</i>				4	4	II	4
<i>Athyrium filix-femina</i>	5	4				II	4 to 5
<i>Dryopteris dilatata</i>	4	4				II	4
<i>Geranium robertianum</i>	5	5				II	5
<i>Rumex sanguineus</i>				4	4	II	4
<i>Salix caprea</i>	4	4				II	4
<i>Crataegus monogyna</i>	4					I	4
<i>Dryopteris affinis</i> agg.		4				I	4
<i>Geum urbanum</i>				4		I	4
<i>Isoetes myosuroides</i>	5					I	5
<i>Kindbergia praelonga</i>	5					I	5
<i>Urtica dioica</i>			4			I	4
Bare ground %	20	20	10	10	10		
Description	Woodland canopy dominated by sycamore, with a patchy understorey. A range of species recorded within the ground layer including some ancient woodland species.						
Management	No evidence. Garden waste recorded at edge of woodland.						

Table 4.12 Site 8

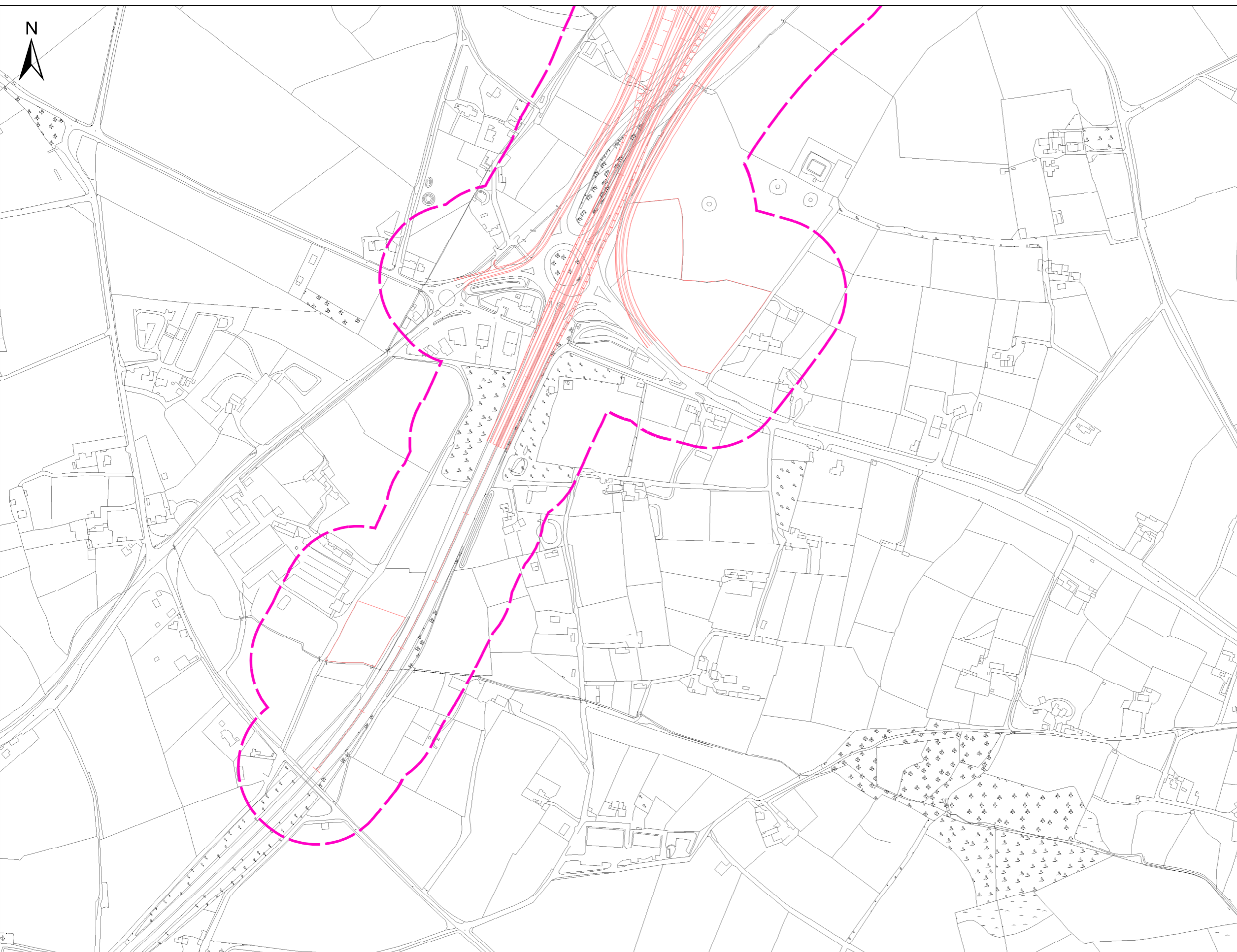
SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Poa pratensis</i>	8	9	7	5	6	V	5 to 9
<i>Agrostis stolonifera</i>	6	5	7	5	5	V	5 to 7
<i>Fagus sylvatica</i>	7	7	7	7	7	V	7
<i>Quercus robur</i>	7	7	7	7	7	V	7
<i>Acer pseudoplatanus</i>	5	5	5	5	5	V	5
<i>Fraxinus excelsior</i>	3	3	3	3	3	V	3
<i>Dactylis glomerata</i>	5	4		7	7	IV	4 to 7
<i>Ranunculus ficaria</i>	4	4		5	4	IV	4 to 5
<i>Hyacinthoides non-scripta</i>	3	3	4		4	IV	3 to 4
<i>Rumex sanguineus</i>	3		4		4	III	3 to 4
<i>Rumex obtusifolius</i>				3	4	II	3 to 4

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Trifolium repens</i>			4		3	II	3 to 4
<i>Poa annua</i>		4		4		II	4
<i>Stellaria media</i>	3			3		II	3
<i>Lolium perenne</i>				6		I	6
<i>Holcus lanatus</i>			5			I	5
<i>Cerastium fontanum</i>			4			I	4
<i>Ranunculus acris</i>			4			I	4
<i>Ranunculus repens</i>			4			I	4
<i>Urtica dioica</i>			4			I	4
<i>Prunus spinosa</i>	3					I	3
<i>Rubus fruticosus</i> agg.	3					I	3
Bare ground %	5	5	5	5	5		
Description	Woodland represents grassland with scattered trees. No understorey. Ground layer dominated by grasses. Canopy approx. 10m in height.						
Management	Evidence of cattle grazing						

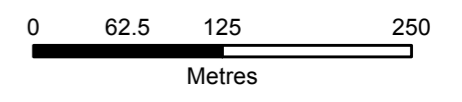
Table 4.13 Site 11 – Stand 1

SCIENTIFIC NAME	Q1	Q2	Q3	Q4	Q5	FREQUENCY	RANGE
<i>Fagus sylvatica</i>	10	10	10	10	10	V	10
<i>Ilex aquifolium</i>	10	10	10	10	10	V	10
<i>Dryopteris dilatata</i>		5	5	7	7	IV	5 to 7
<i>Hedera helix</i>		6		6	6	III	6
<i>Lonicera periclymenum</i>	4					I	4
<i>Mnium hornum</i>	4					I	4
<i>Rubus fruticosus</i> agg.			7			I	7
Bare ground %	40	20	15	10	40		
Description	Beech woodland with sparse understorey and ground layer. Graduates into plantation larch and spruce to the east.						
Management	Evidence of felling						

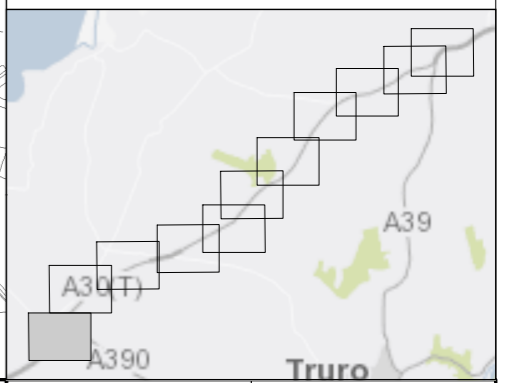
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- Proposed Route
- - - 100m Study Area



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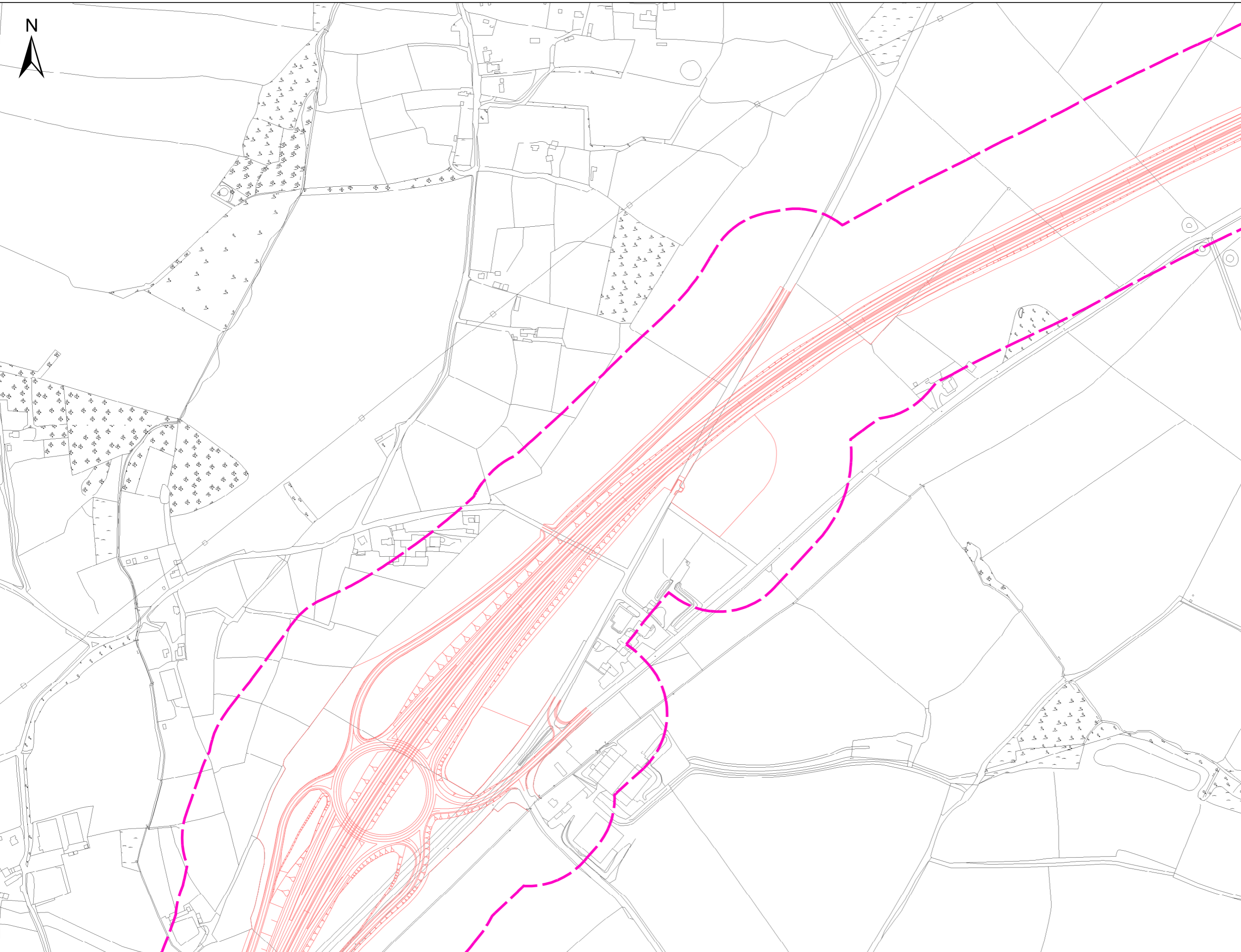
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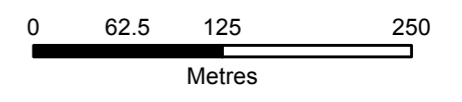
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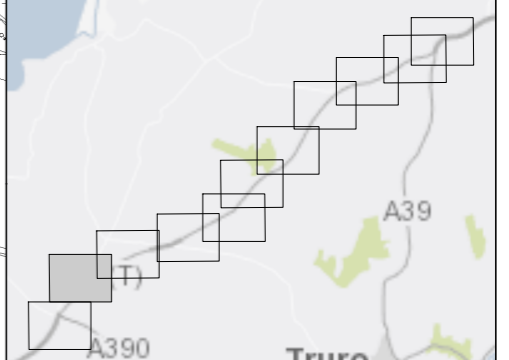
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Proposed Route
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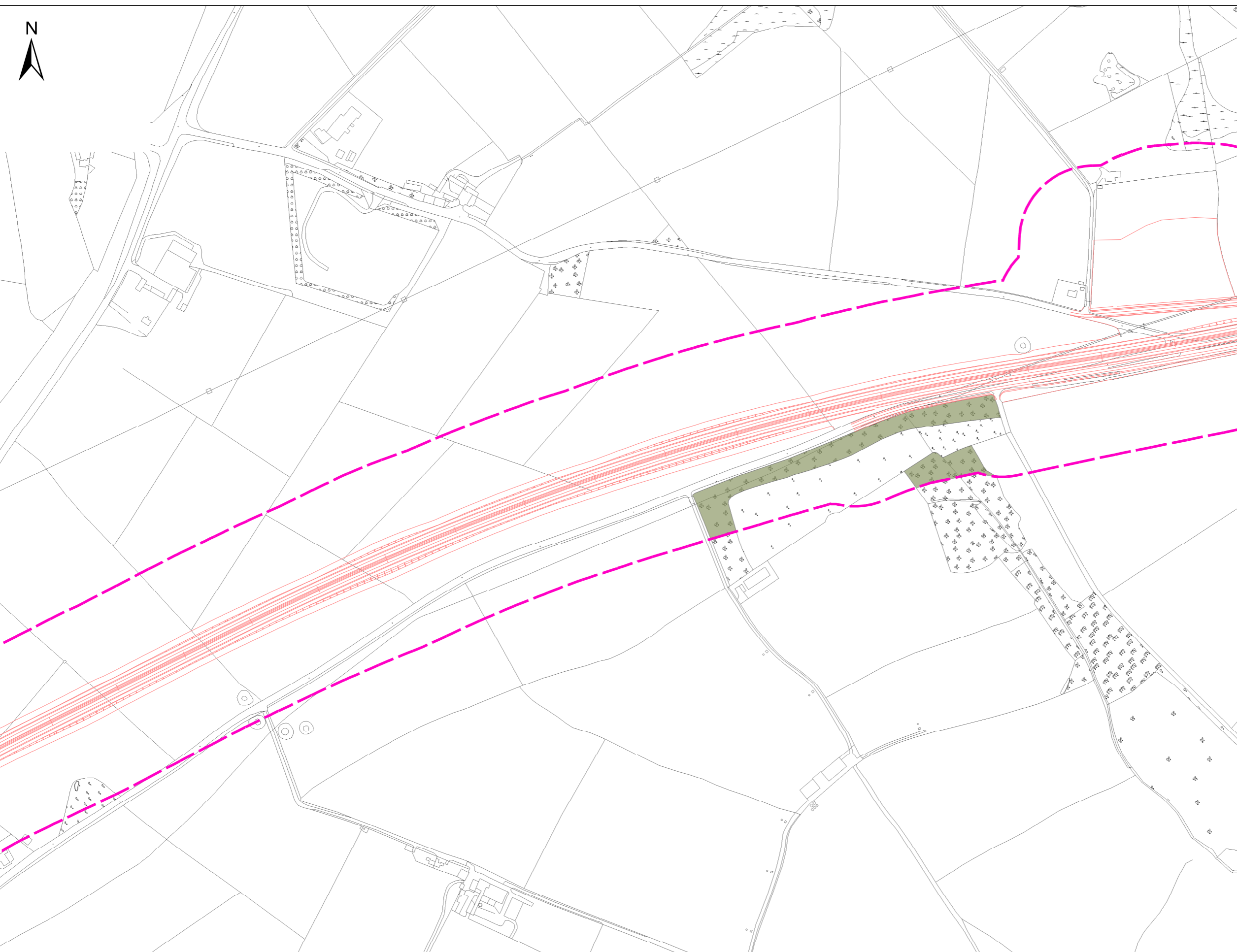
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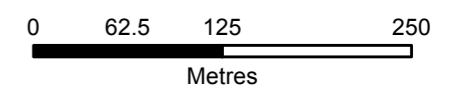
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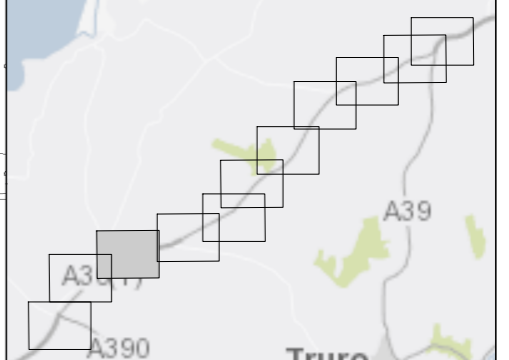
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- Proposed Route
- - - 100m Study Area
- Habitats of Principal Importance
- Deciduous woodland



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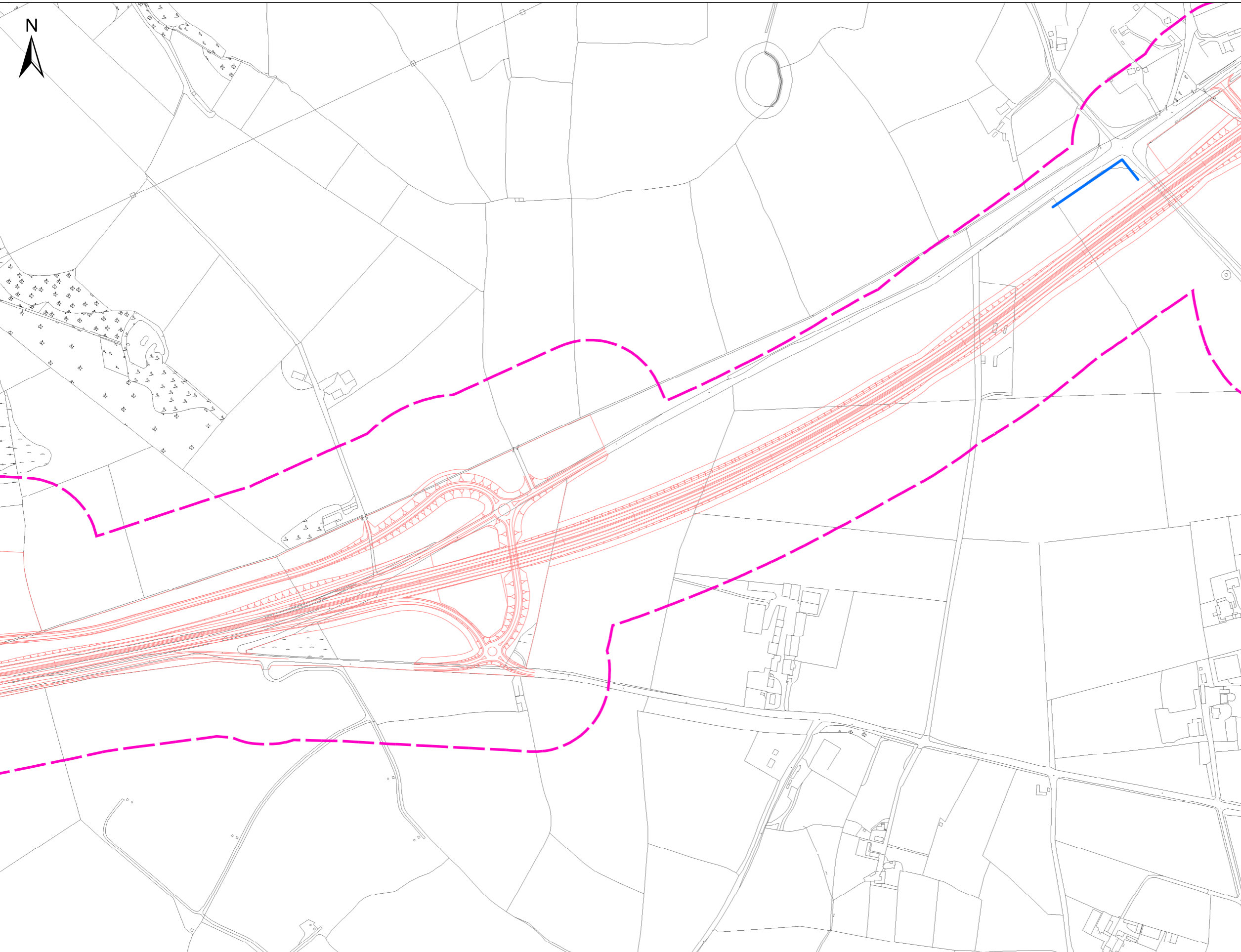
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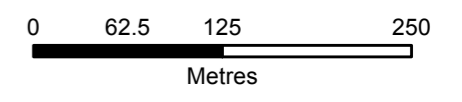
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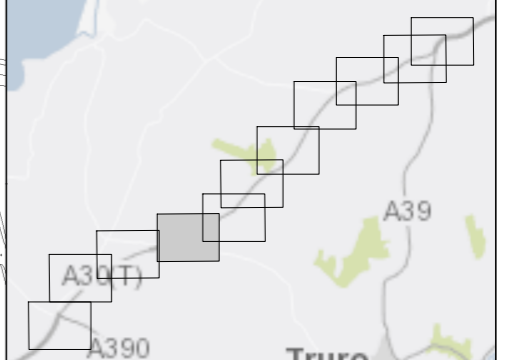
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- Proposed Route
- - - 100m Study Area
- Roadside Inventory - no longer in existence (BS315)



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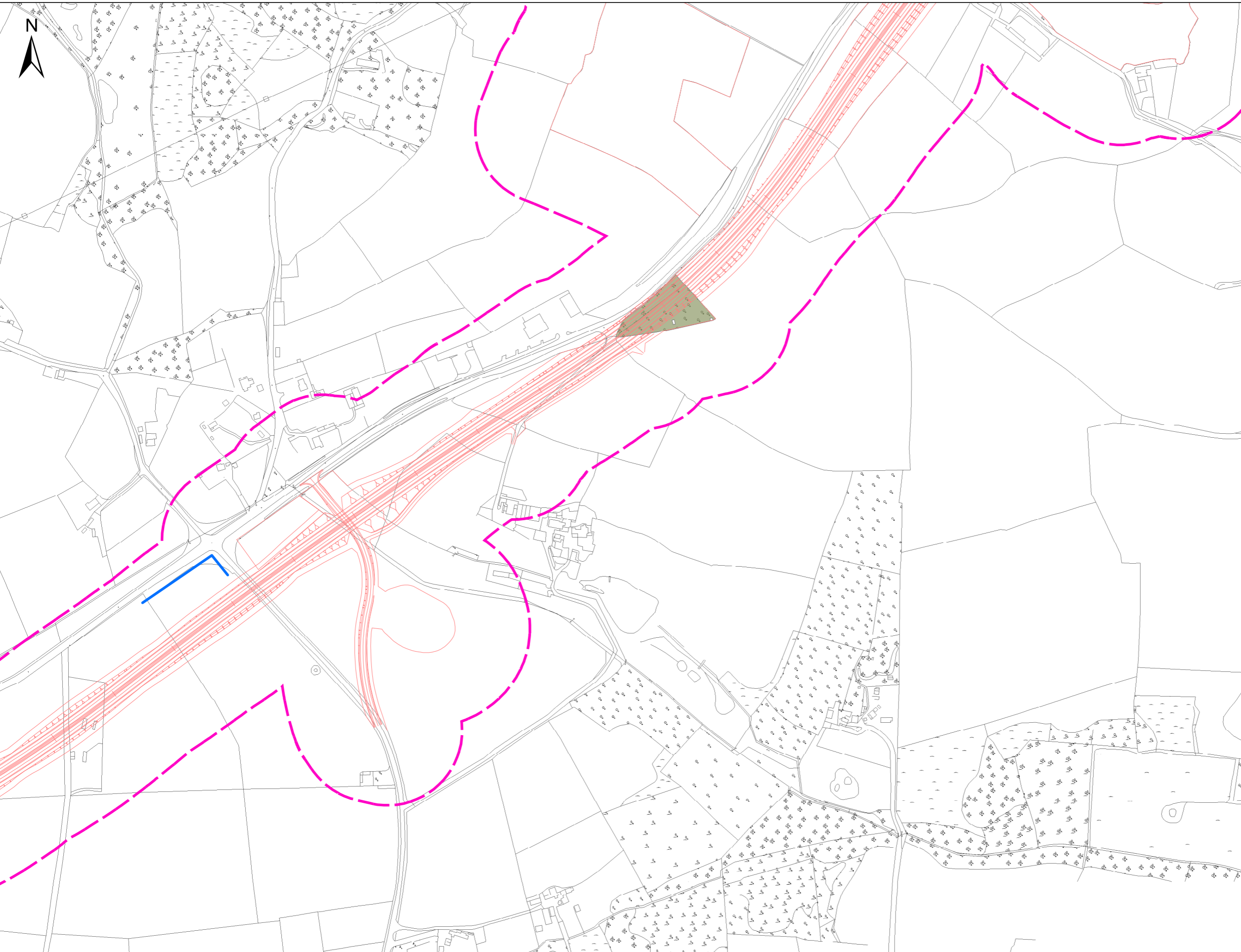
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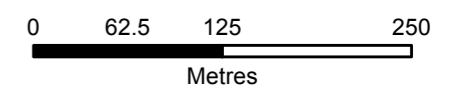
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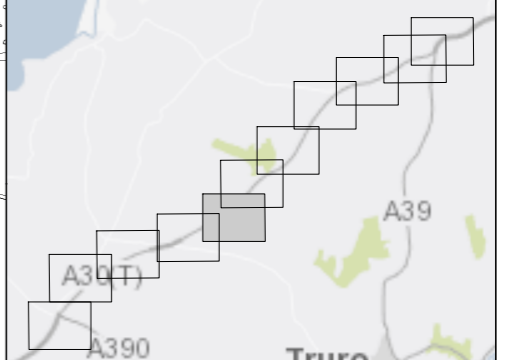
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- Proposed Route
- - - 100m Study Area
- Roadside Inventory - no longer in existence (BS315)
- Habitats of Principal Importance**
- Deciduous woodland



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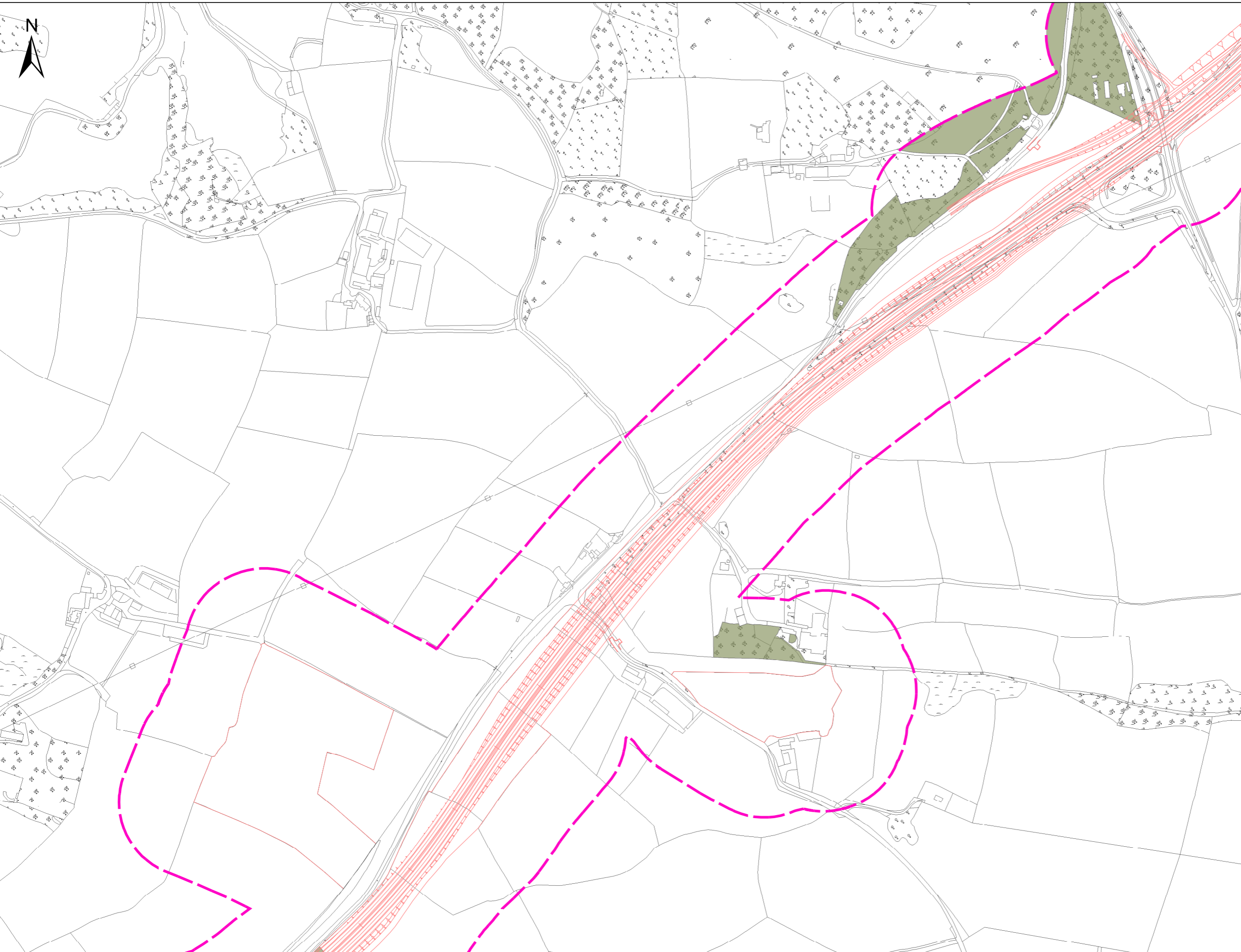
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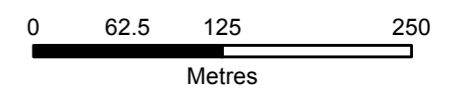
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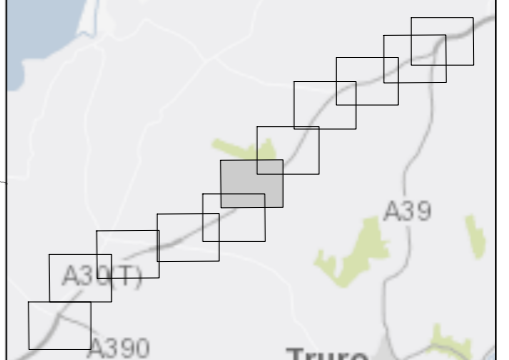
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- Proposed Route
- - - 100m Study Area
- Habitats of Principal Importance
- Deciduous woodland



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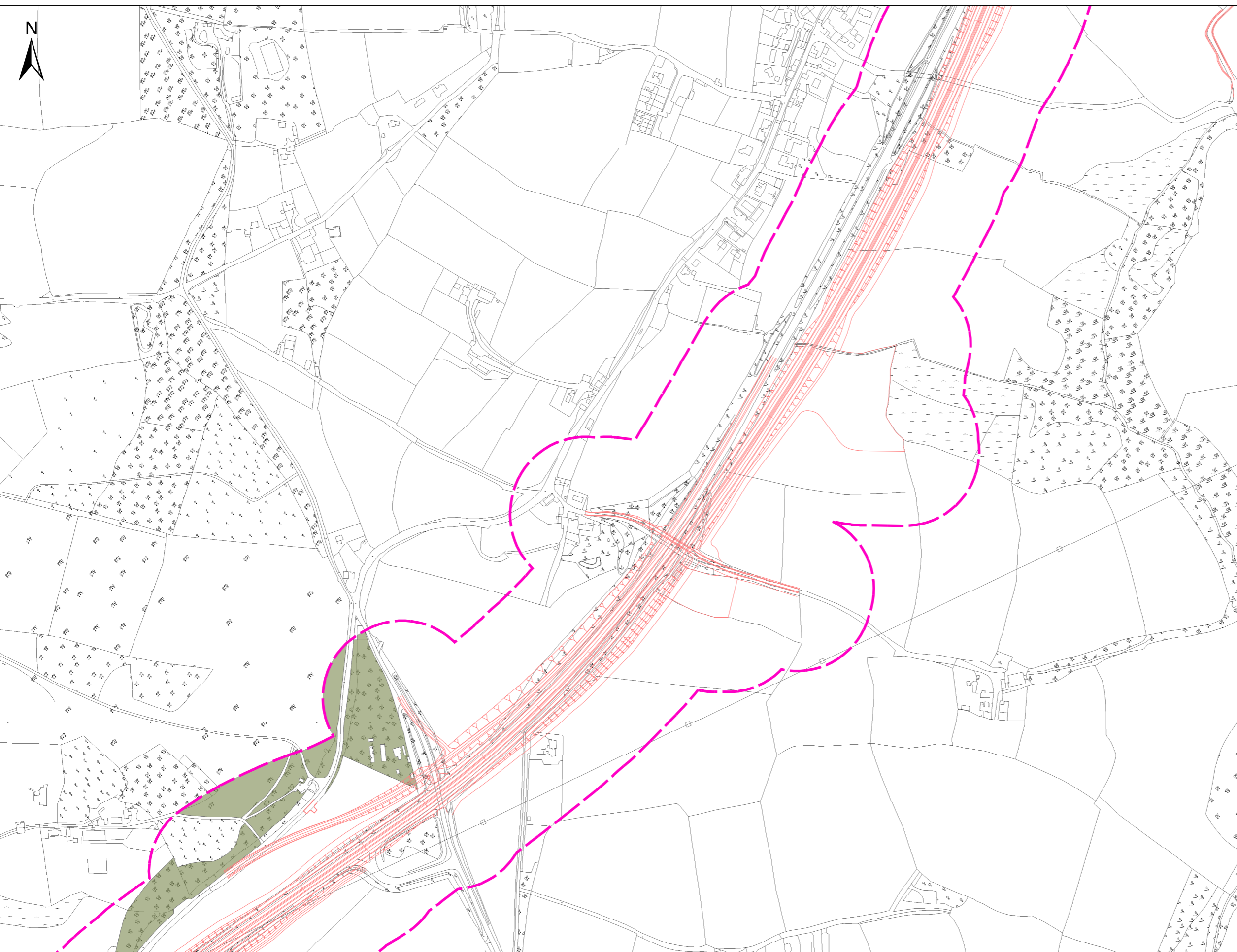
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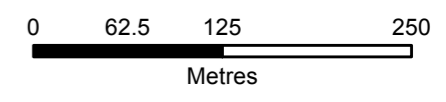
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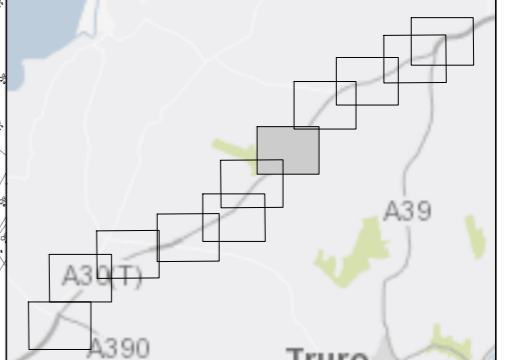
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- Proposed Route
- 100m Study Area
- Habitats of Principal Importance
- Deciduous woodland



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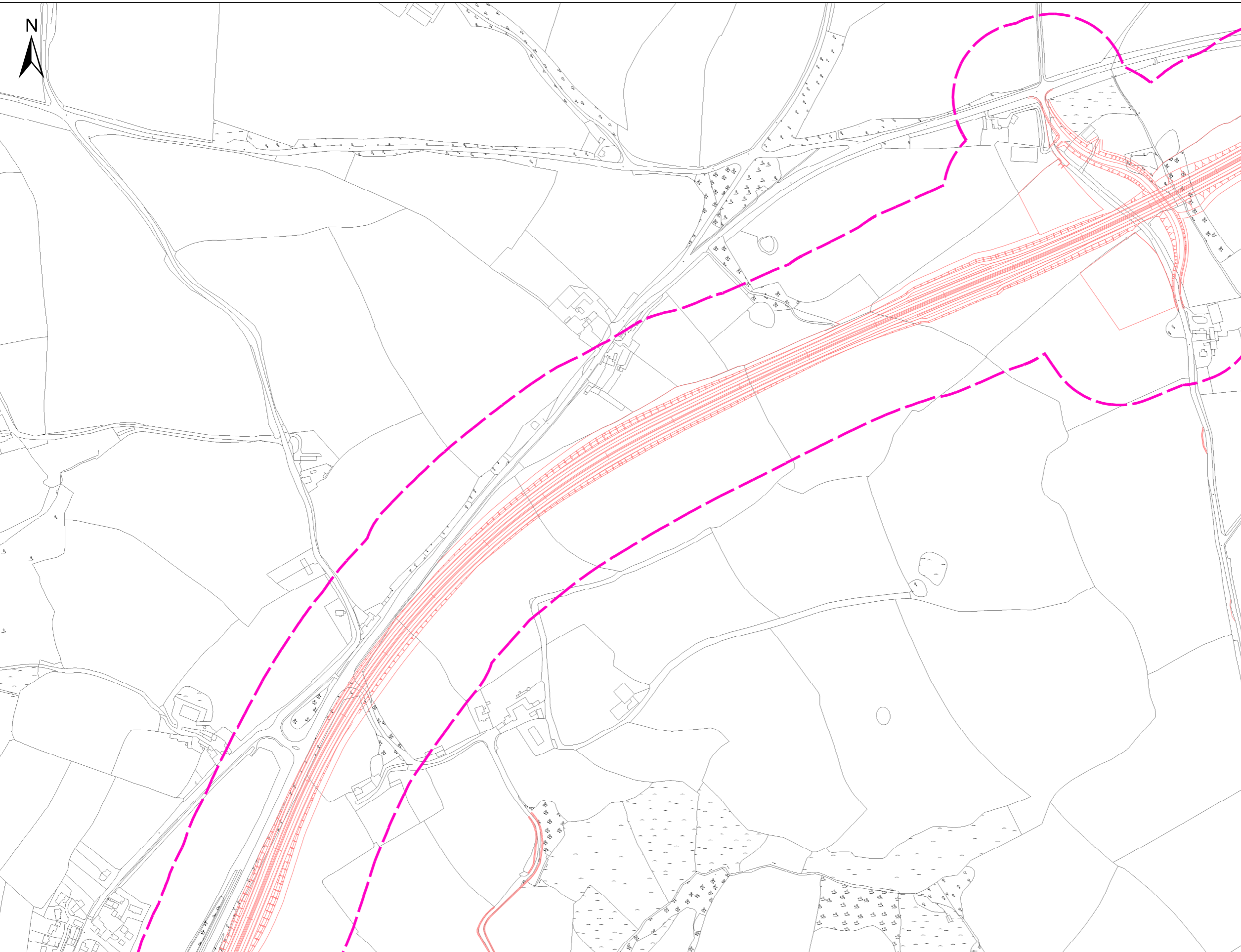
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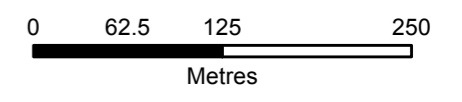
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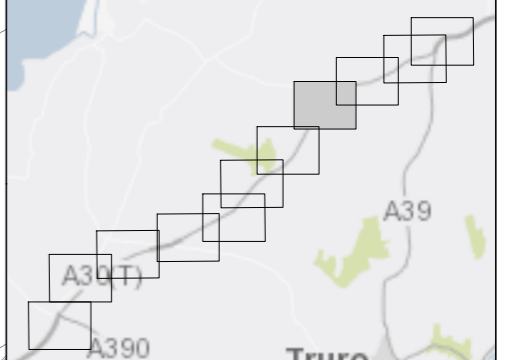
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Proposed Route
 100m Study Area



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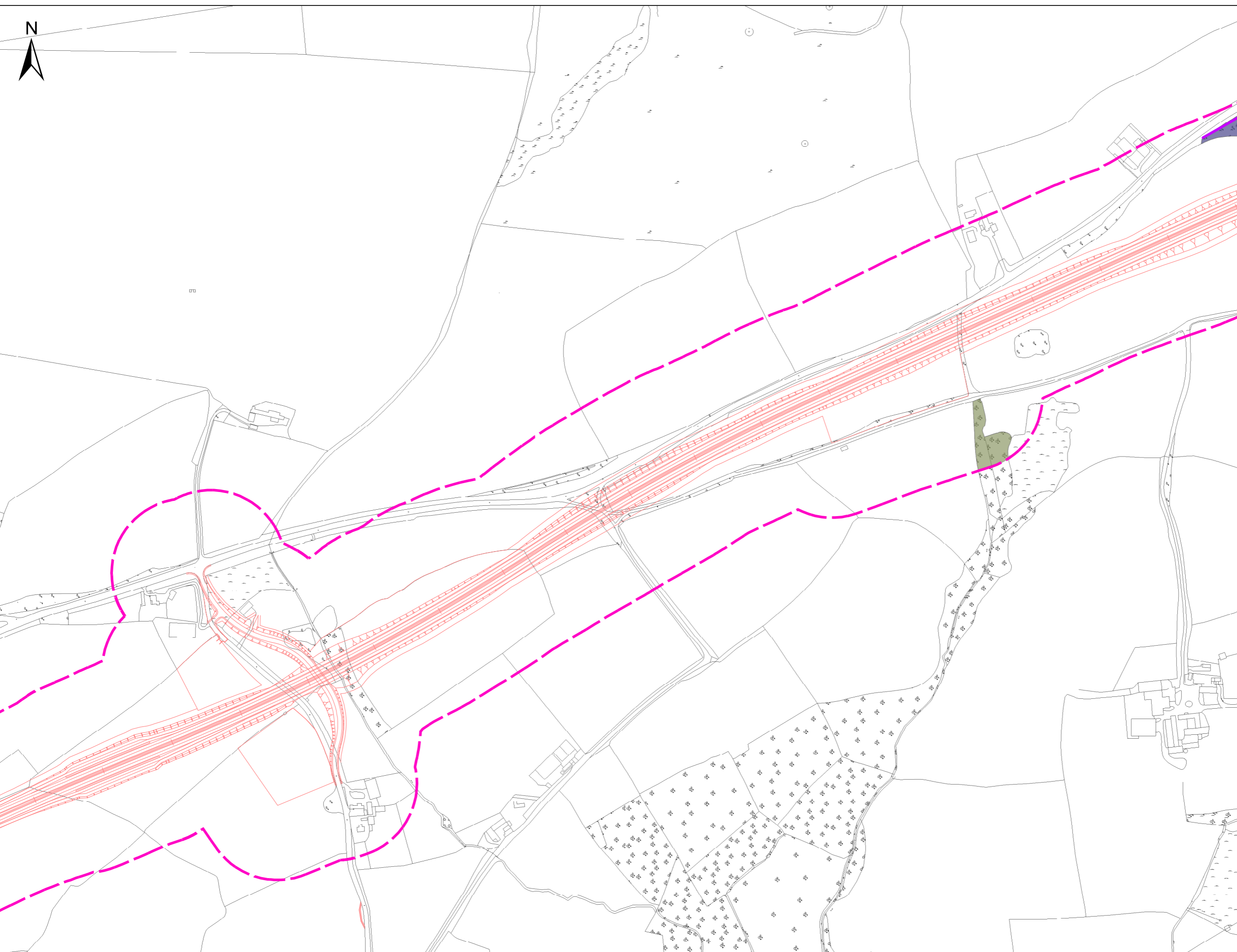
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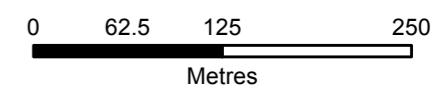
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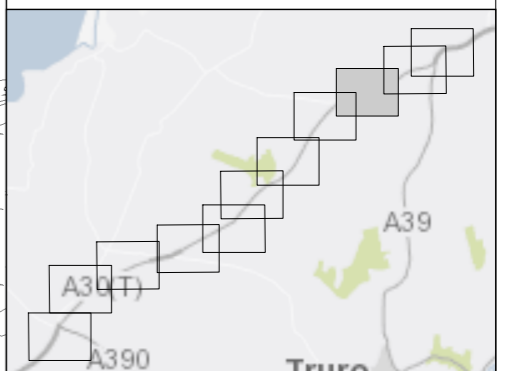
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- Proposed Route
- 100m Study Area
- Roadside Inventory (BS316)
- Habitats of Principal Importance**
- Deciduous woodland
- Lowland heathland



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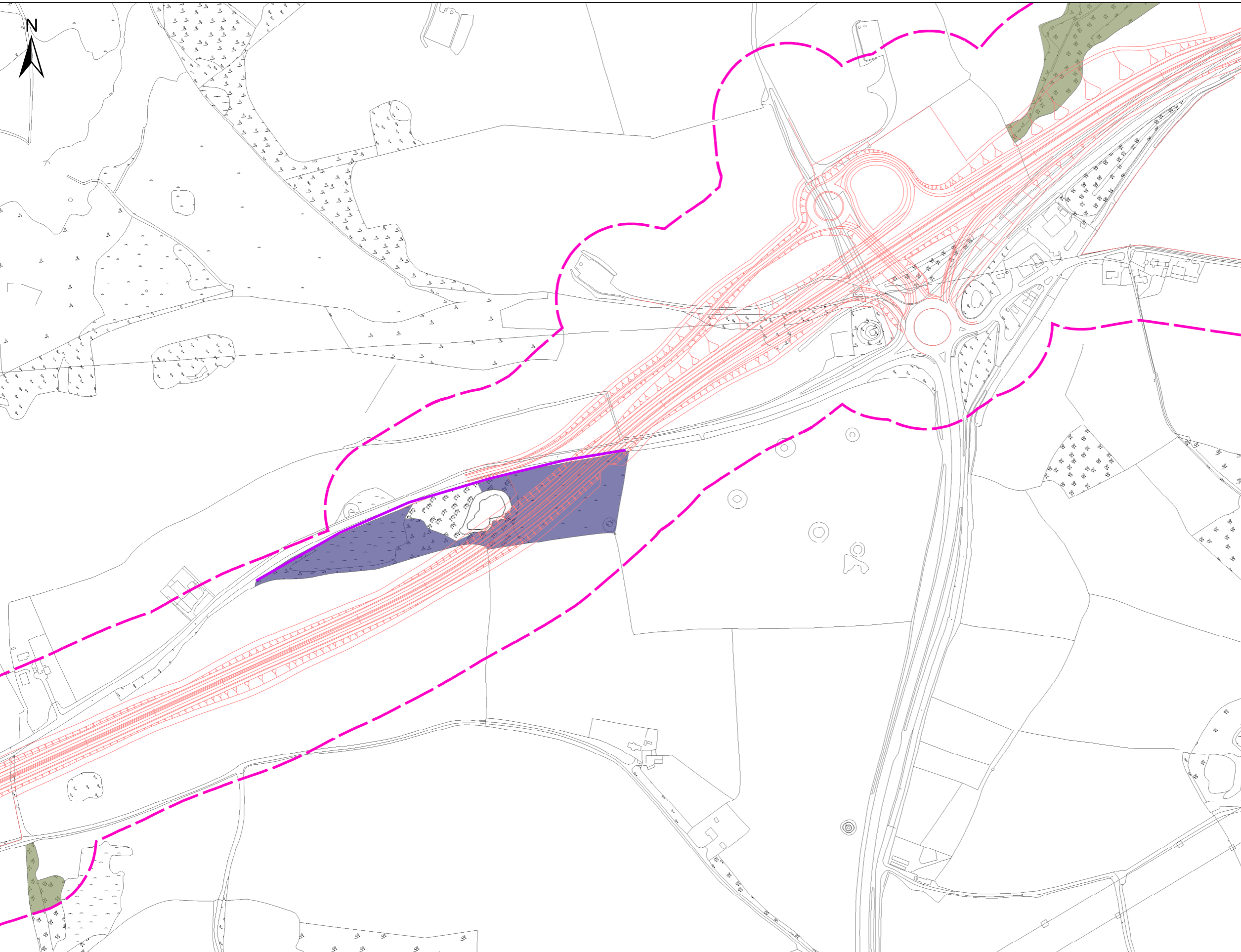
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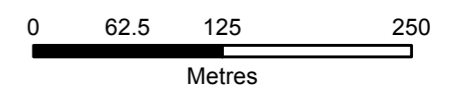
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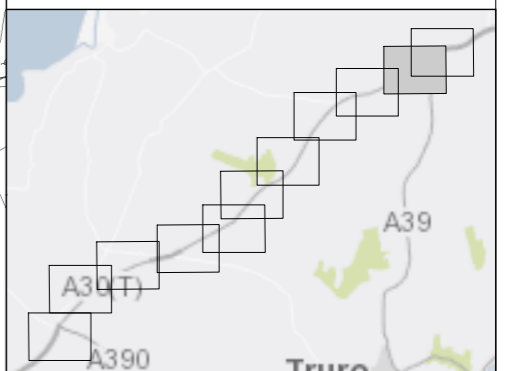
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 Log in: desouzaj
 Plot Date: 29/09/2017



- Proposed Route
- 100m Study Area
- Roadside Inventory (BS316)
- Habitats of Principal Importance**
- Deciduous woodland
- Lowland heathland



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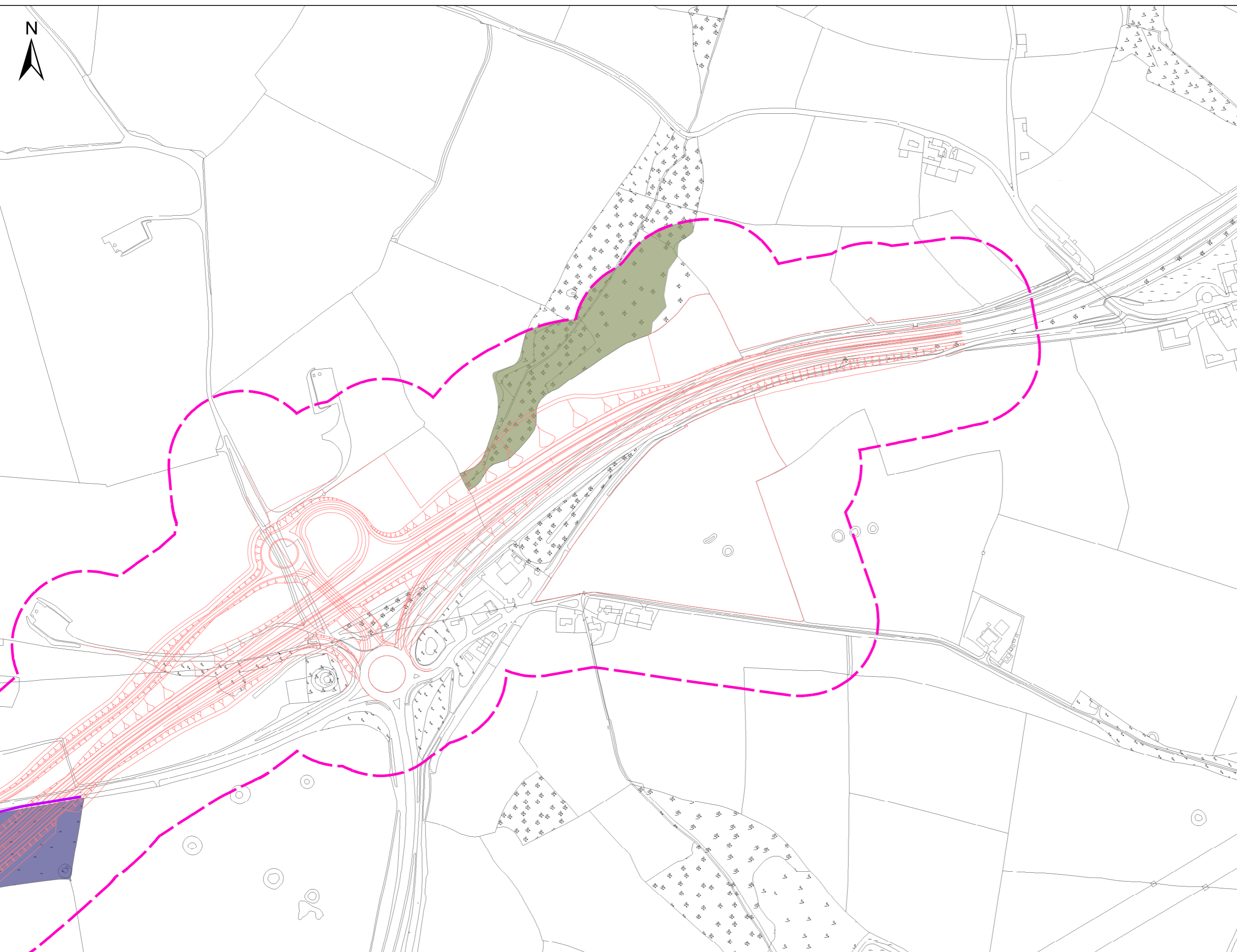
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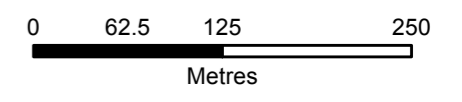
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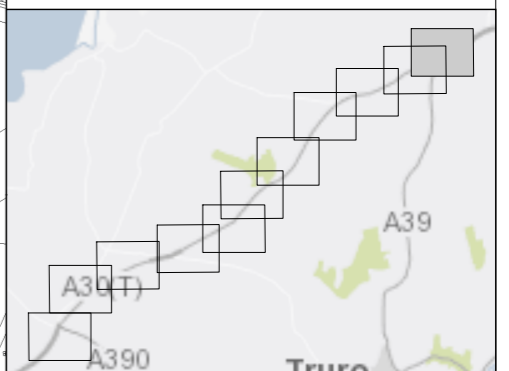
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- Proposed Route
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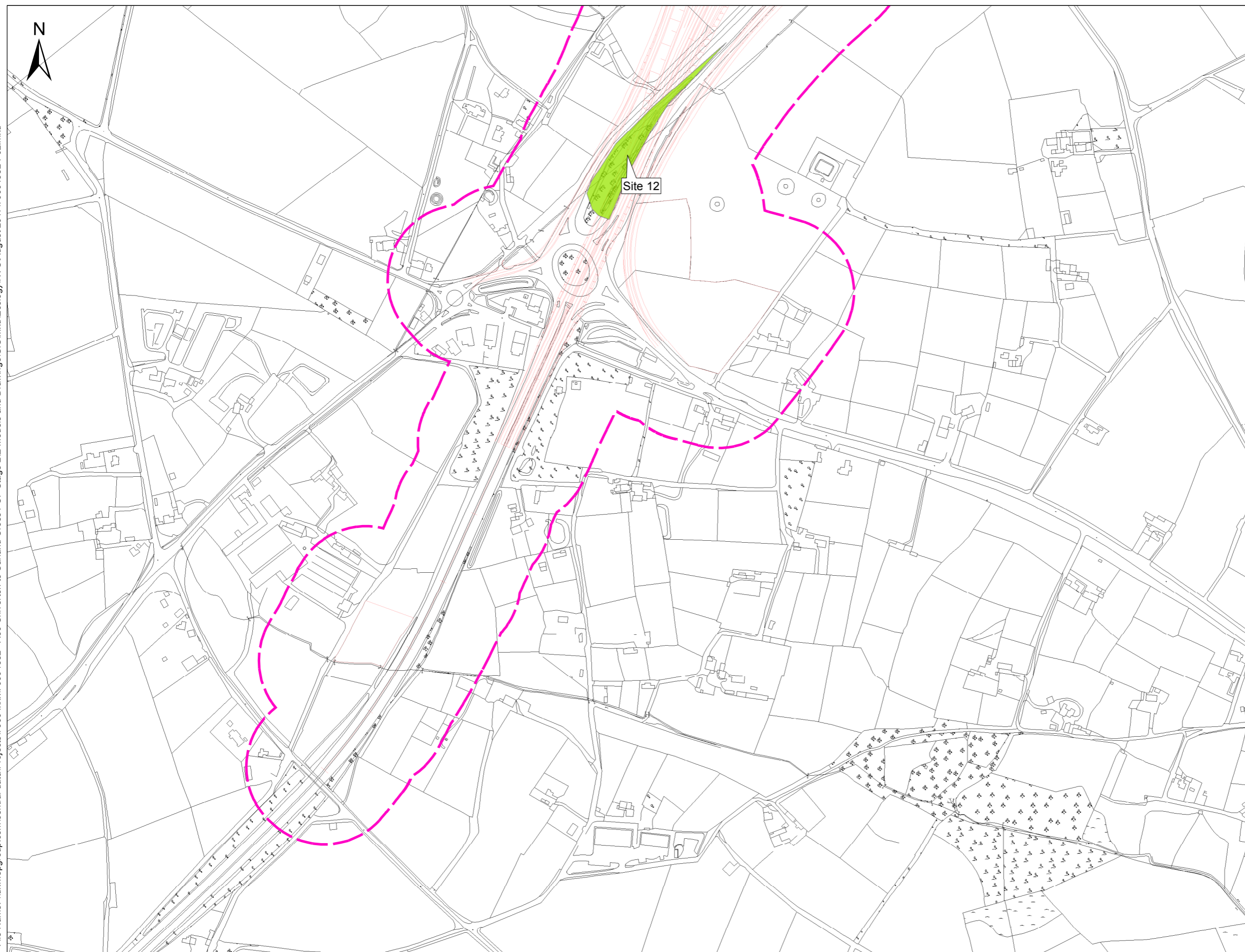
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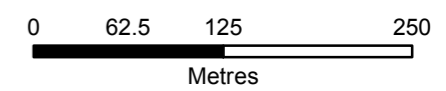
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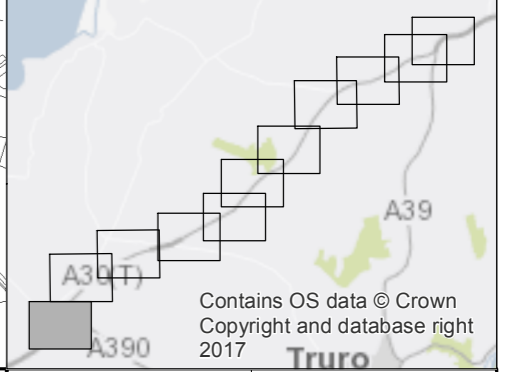
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- Proposed Route
- 100m Study Area
- Quadrat locations
- Broad-leaved woodland



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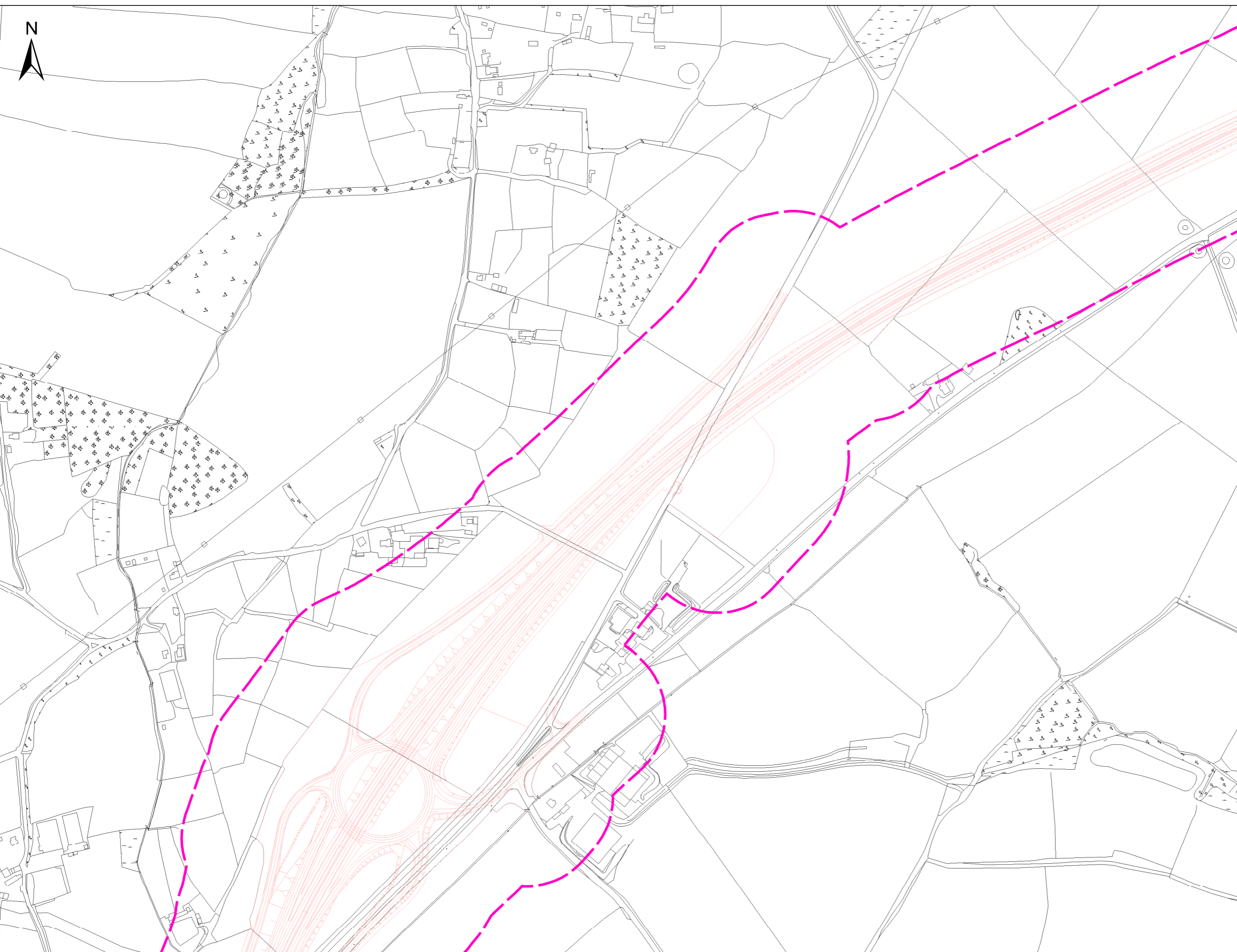
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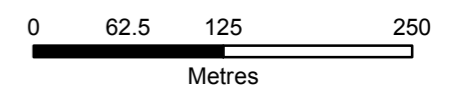
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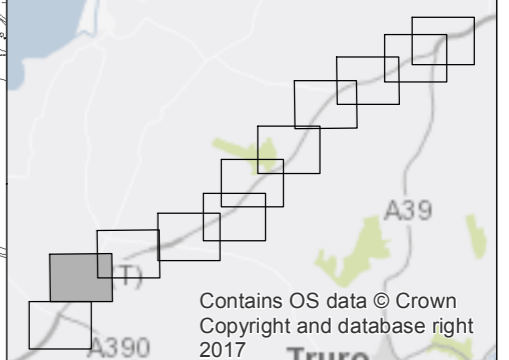
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- Proposed Route
- 100m Study Area
- Quadrat locations



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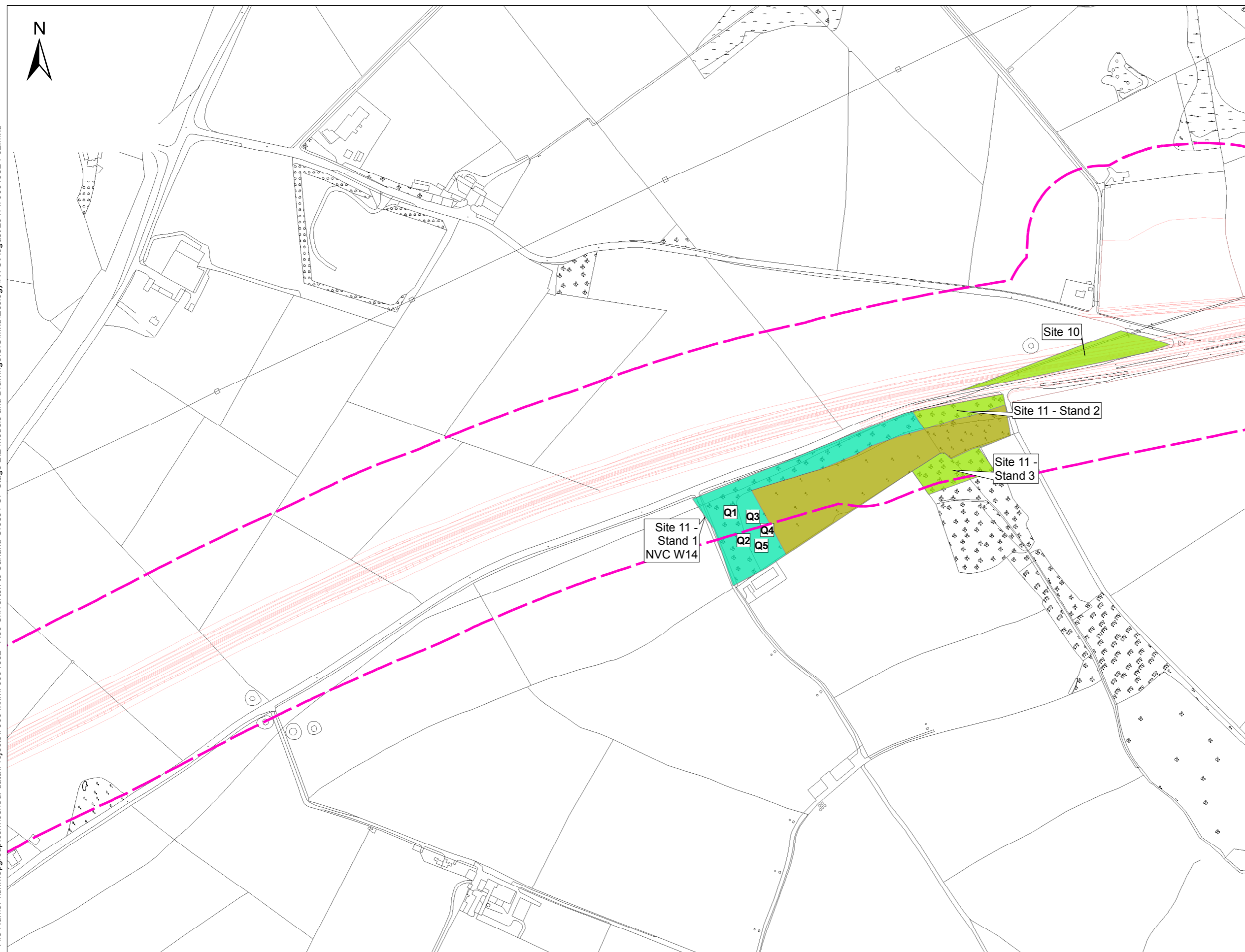
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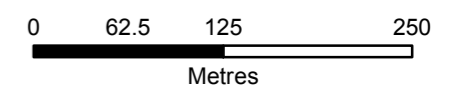
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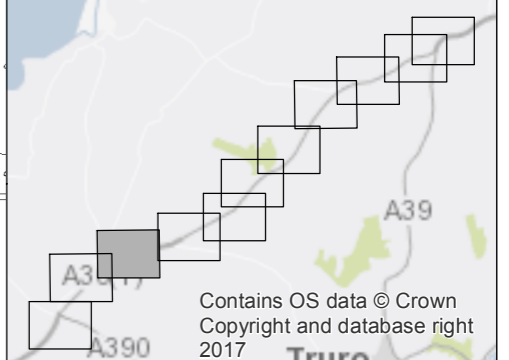
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- Proposed Route
- 100m Study
- Quadrat locations
- Broad-leaved woodland
- Broad-leaved woodland NVC W14 Fagus sylvatica - Rubus fruticosus woodland
- Coniferous Woodland



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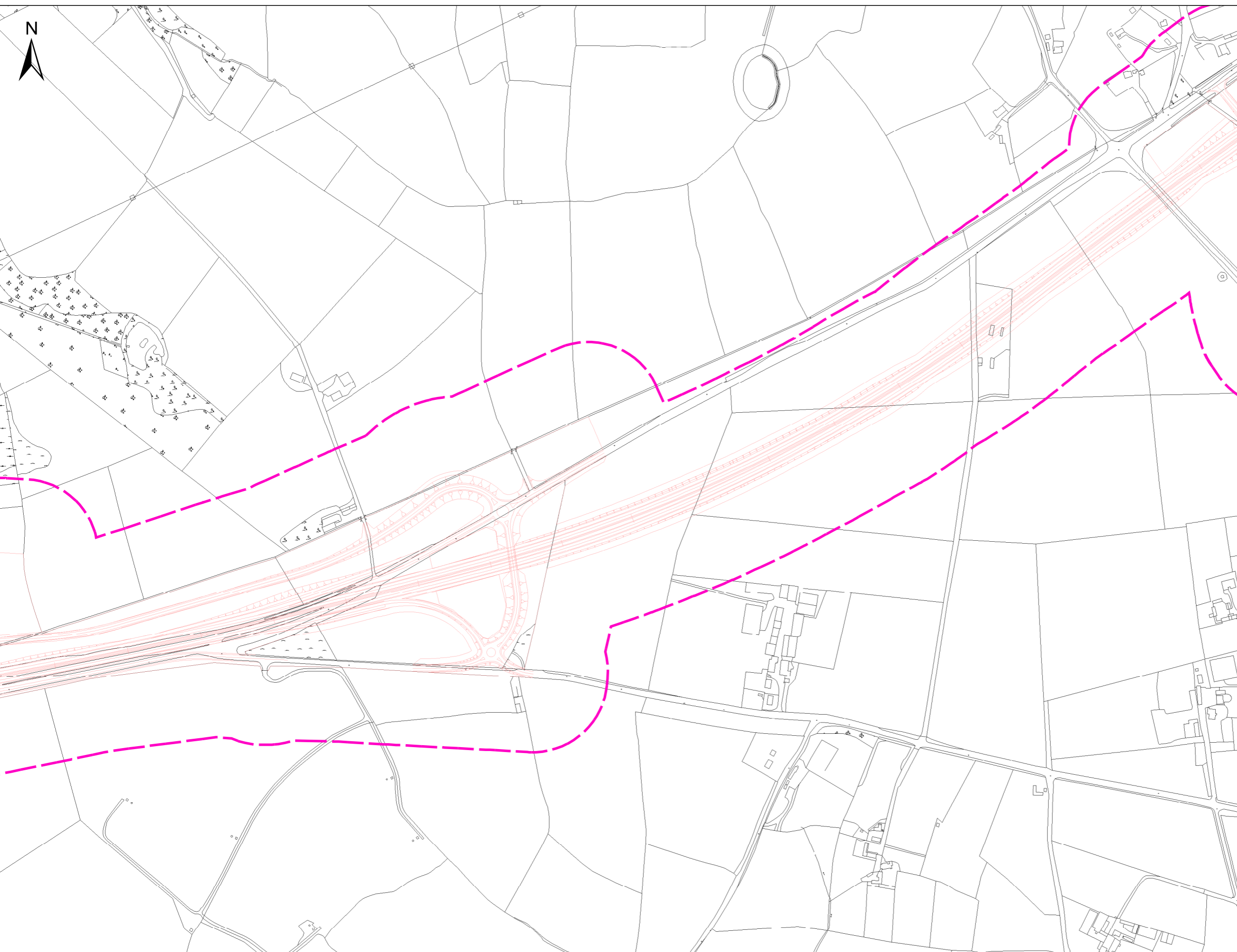
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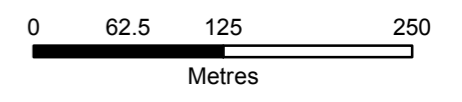
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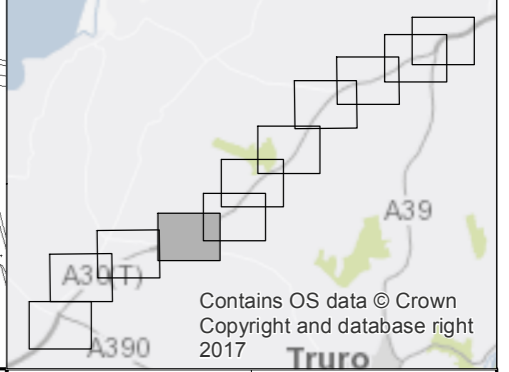
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- Proposed Route
- - - 100m Study Area
- Quadrat locations



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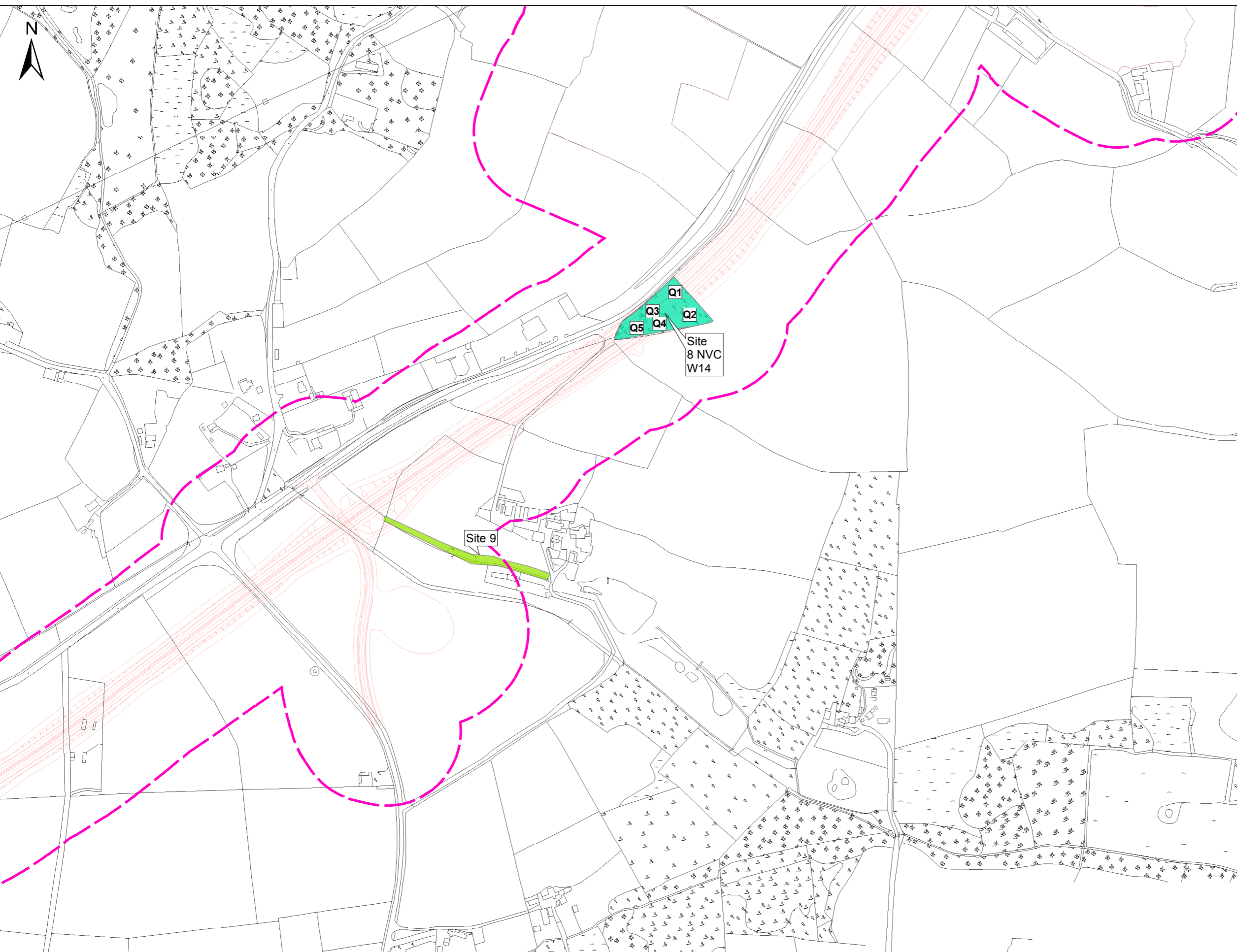
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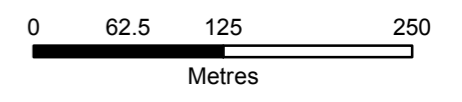
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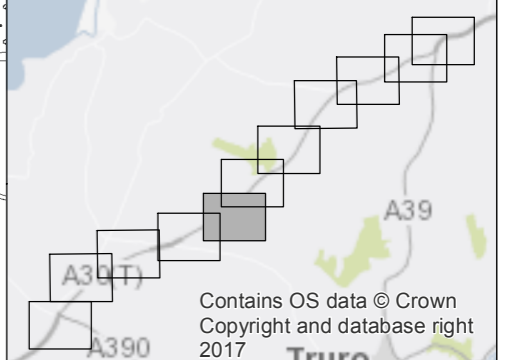
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- Proposed Route
- 100m Study
- Quadrat locations
- Broad-leaved
- Broad-leaved woodland NVC W14
Fagus sylvatica - Rubus fruticosus woodland



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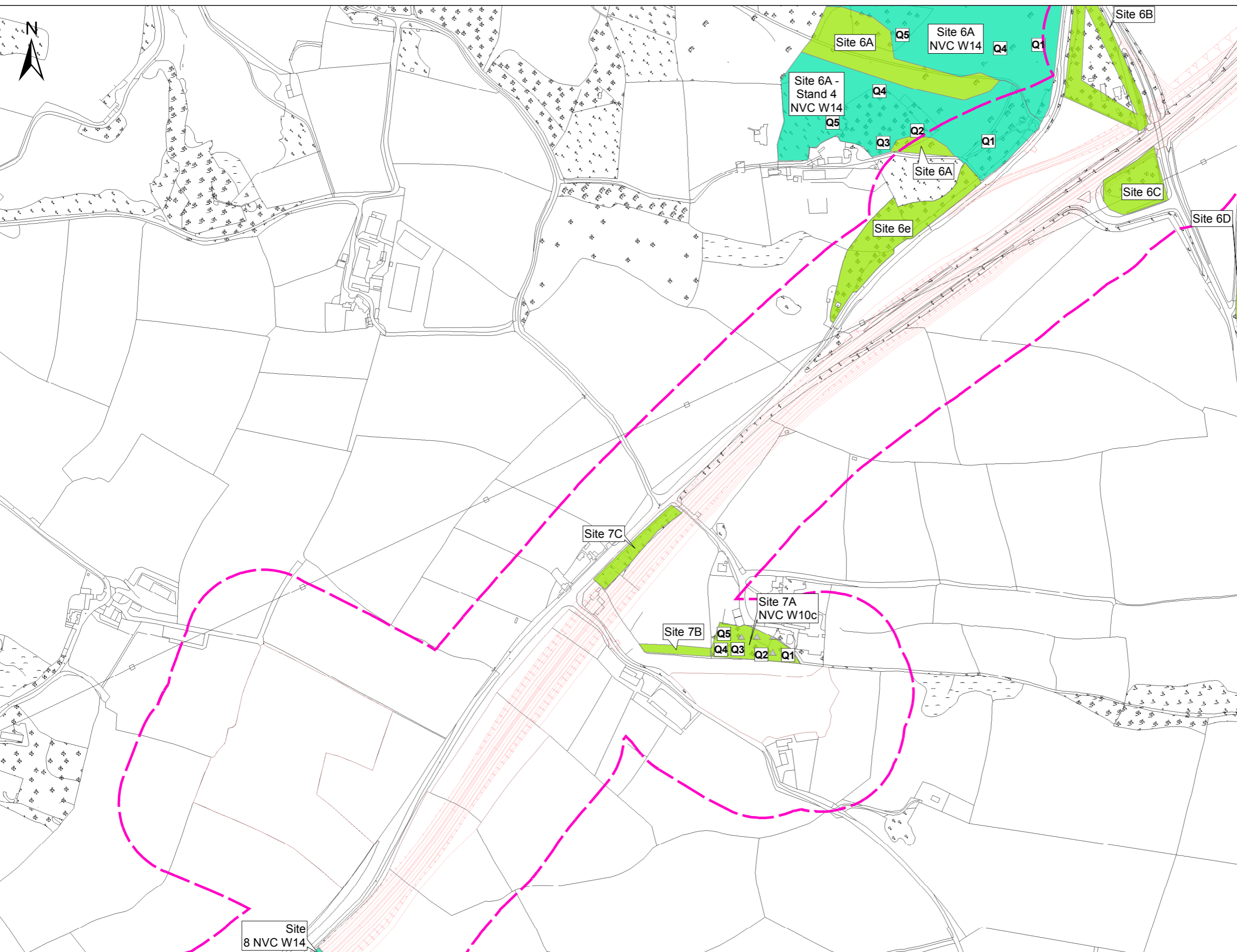
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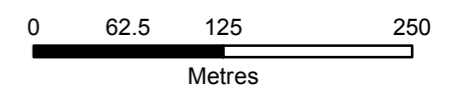
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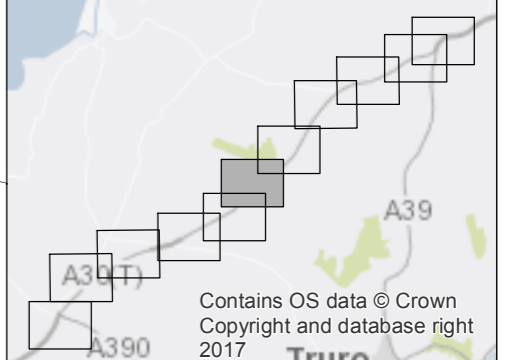
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- Proposed Route
- 100m Study Area
- Quadrat locations
- Broad-leaved woodland
- Broad-leaved woodland NVC W10c
Quercus robur - Pteridium
acquilinum - Rubus fruticosus
woodland, Hedera helix
- Broad-leaved woodland NVC W14
Fagus sylvatica - Rubus fruticosus
woodland



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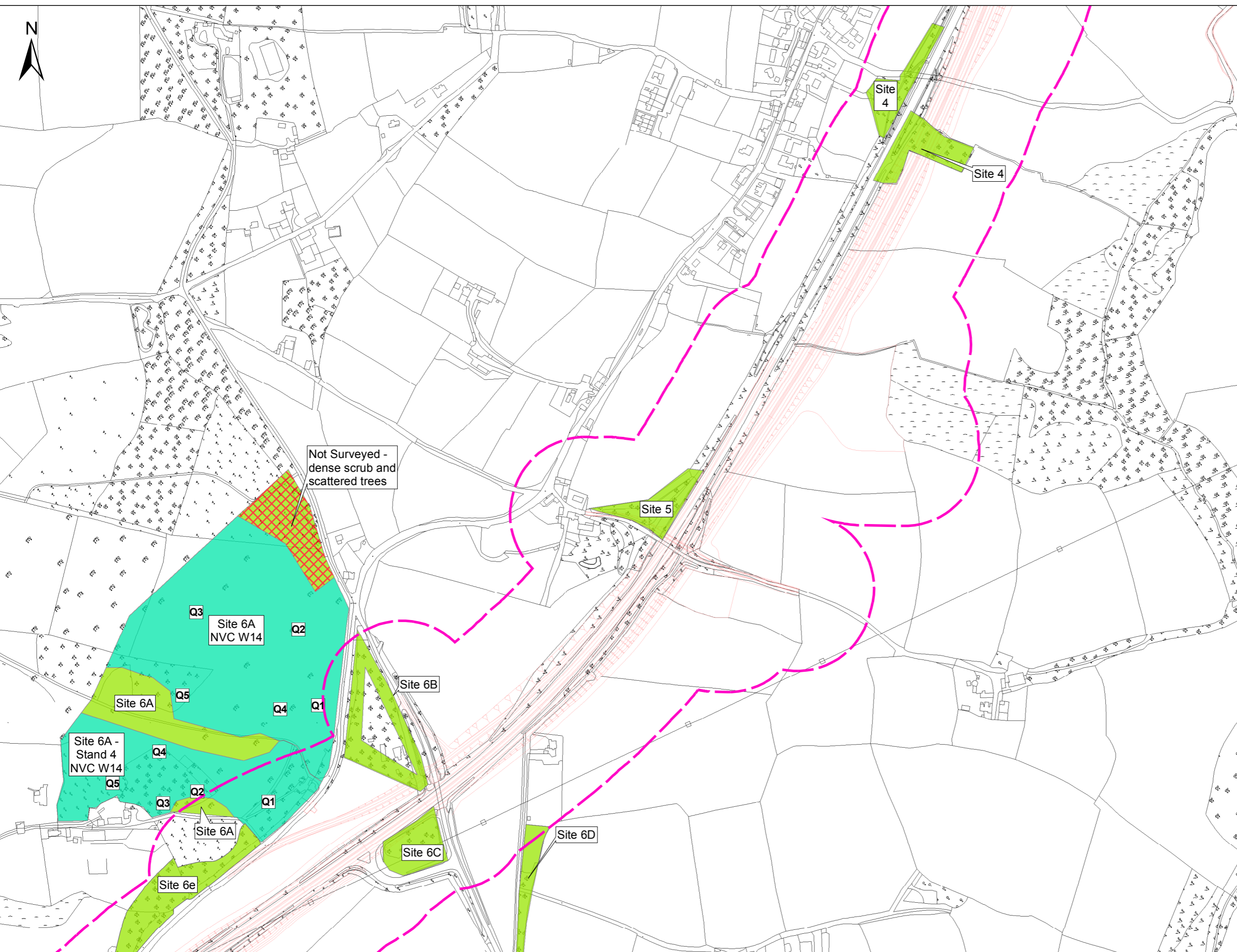
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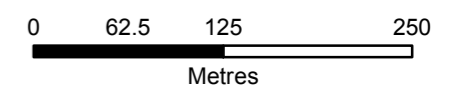
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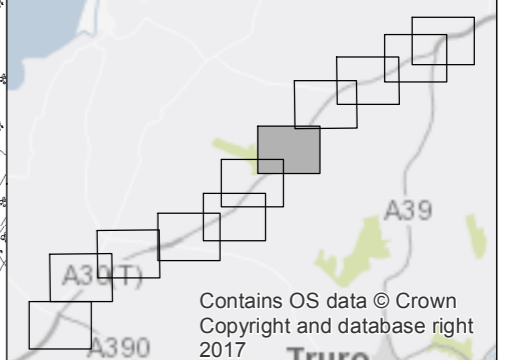


- Proposed Route
- 100m Study Area
- Quadrat locations
- Broad-leaved woodland
- Broad-leaved woodland NVC W14
Fagus sylvatica - Rubus fruticosus woodland
- Broad-leaved woodland Not Surveyed - Dense Scrub and scattered trees

Not Surveyed - dense scrub and scattered trees



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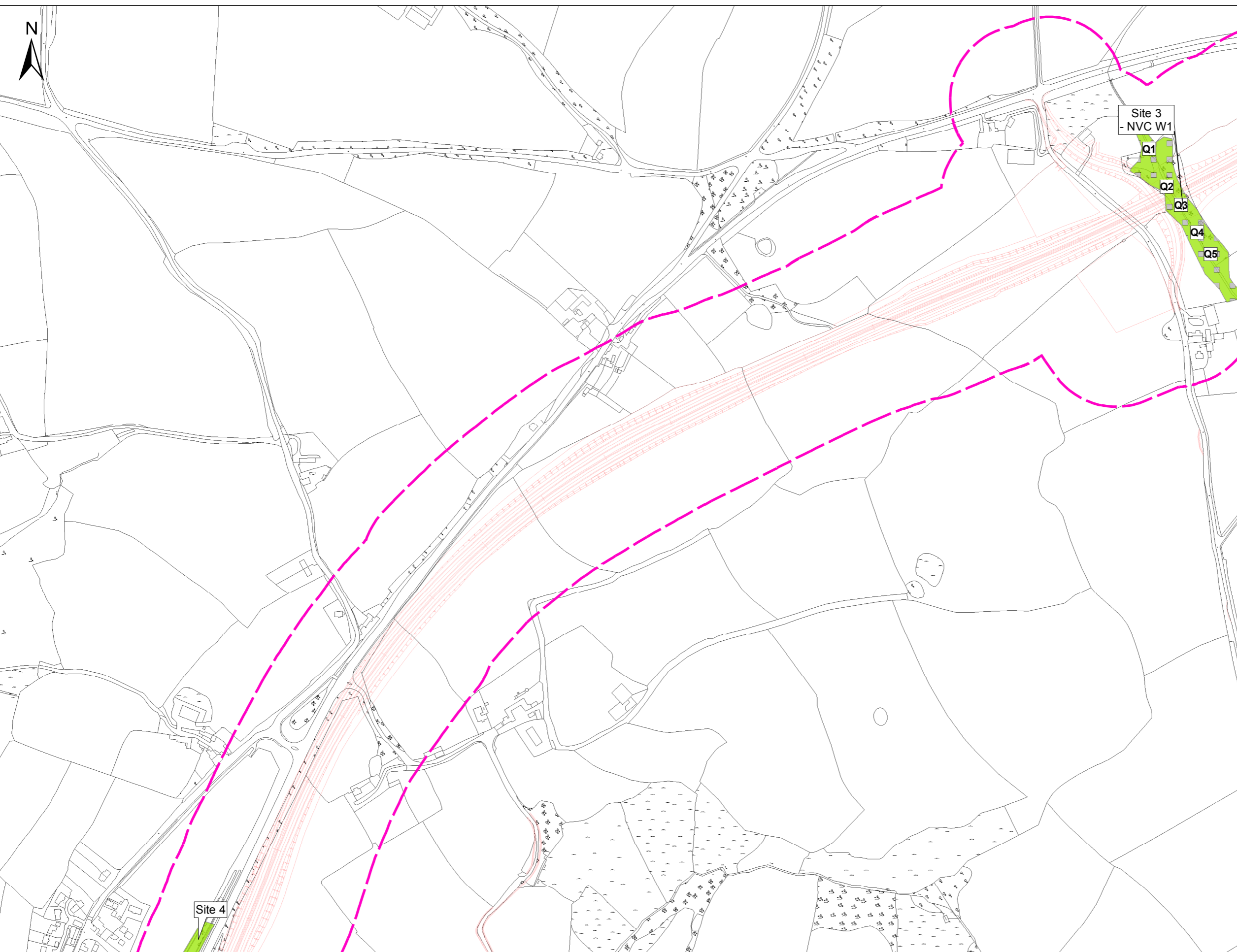
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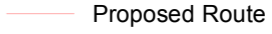
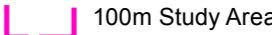

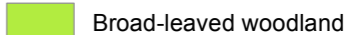
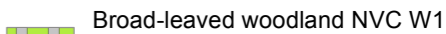
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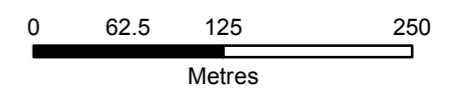
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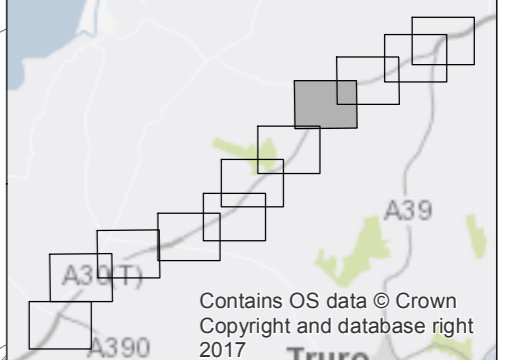
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-  Proposed Route
-  100m Study Area
-  Quadrat locations
-  Broad-leaved woodland
-  Broad-leaved woodland NVC W1
Salix cinerea-Galium palustre community



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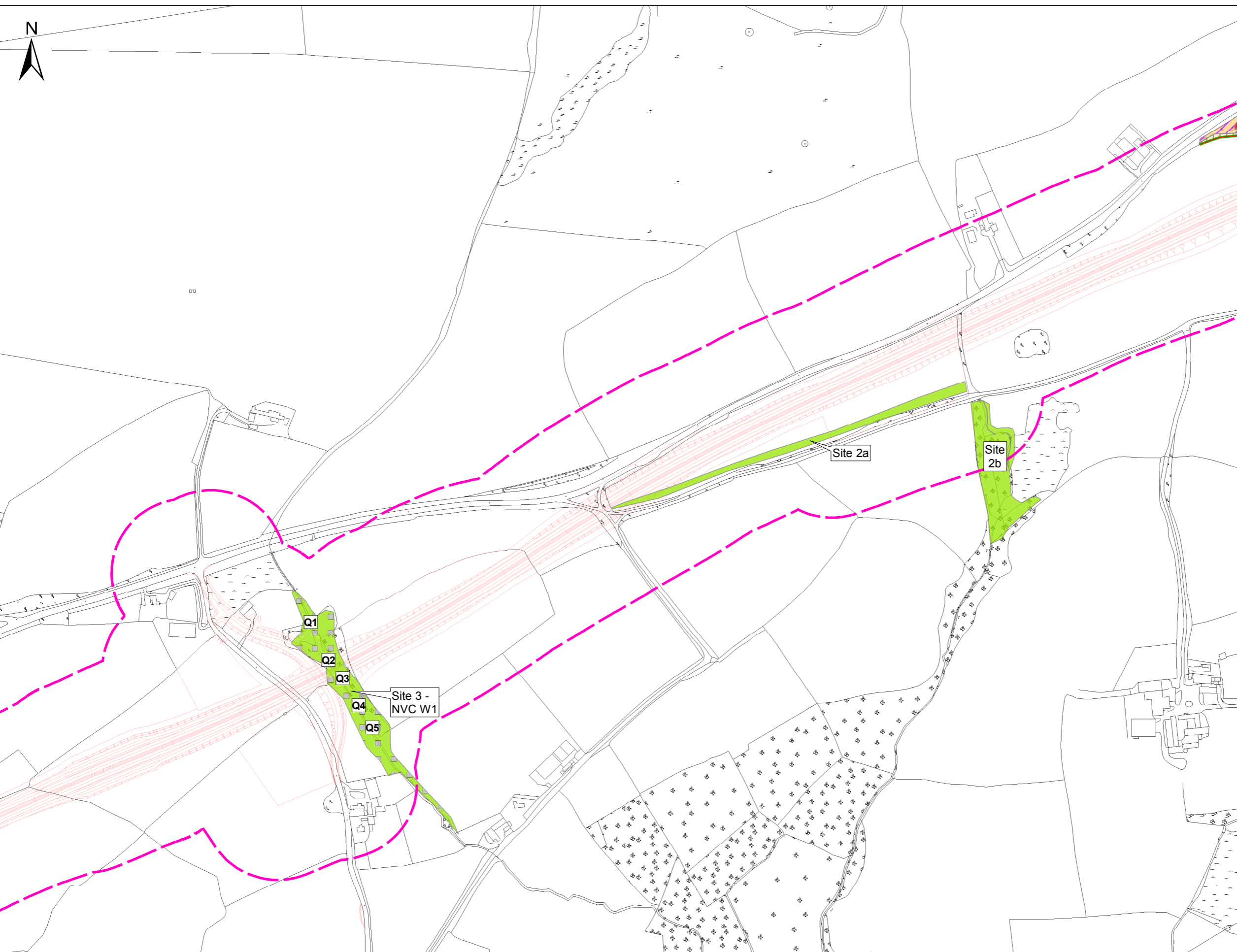
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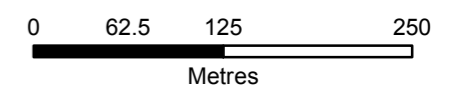
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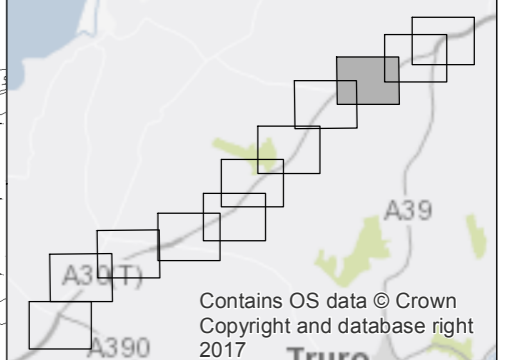
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- Proposed Route
- 100m Study Area
- Quadrat locations
- Hedgerow - W23 Ulex europaeus - Rubus fruticosus scrub
- Broad-leaved woodland
- Broad-leaved woodland NVC W1 Salix cinerea-Galium palustre community
- Erica ciliaris (Dorset heath) location (Recorded 5th August 2017)
- H4 Ulex gallii - Agrostis curtisii heath
- Scrub and bracken not subject to NVC survey



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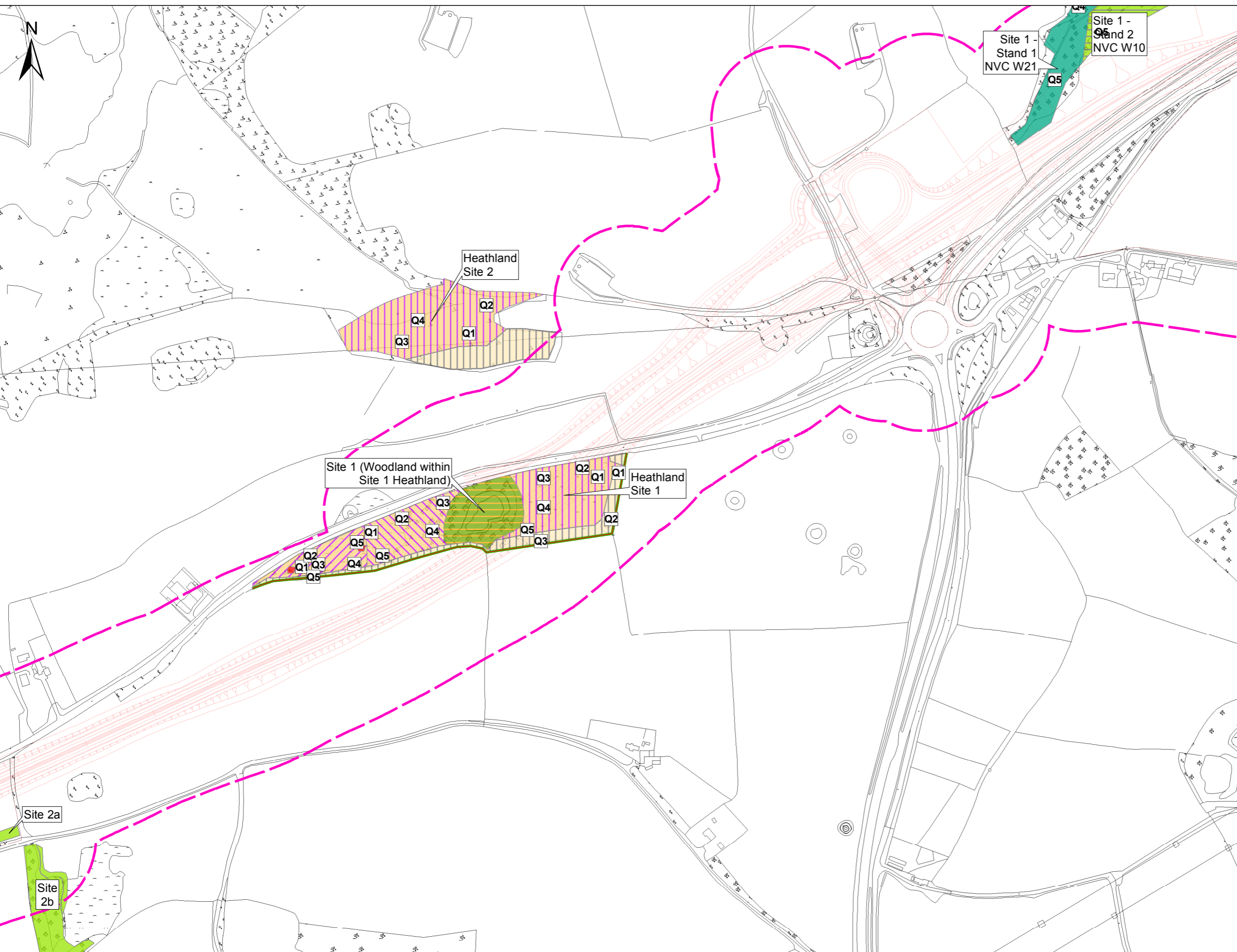
HEATHLAND AND WOODLAND SURVEY RESULTS
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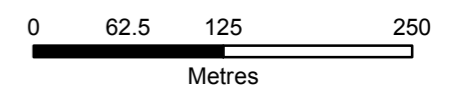
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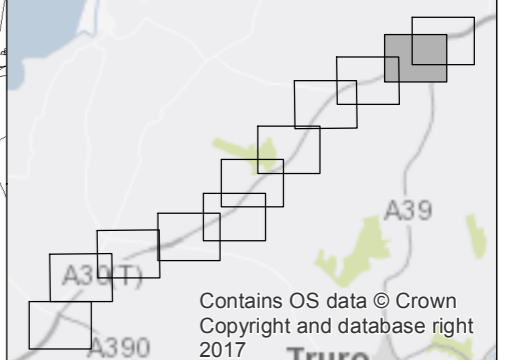
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- Proposed Route
- 100m Study Area
- Quadrat locations
- Hedgerow - W23 *Ulex europaeus* - *Rubus fruticosus* scrub
- Broad-leaved woodland
- Broad-leaved woodland NVC W10
Quercus robur - *Pteridium acquilinum* - *Rubus fruticosus* woodland, with elements of the W10c *Quercus robur* - *Pteridium acquilinum* - *Rubus fruticosus* woodland, *Hedex helix* sub-community
- Broad-leaved woodland NVC W21
Crataegus monogyna-*Hedra helix* scrub community
- Erica ciliaris* (Dorset heath) location (Recorded 5th August 2017)
- H4 *Ulex gallii* - *Agrostis curtisii* heath
- H4 *Ulex gallii* - *Agrostis curtisii* heath, *Agrostis curtisii* - *Erica cinerea* sub-community
- H4a *Ulex gallii* - *Agrostis curtisii* heath, *Erica tetralix* sub-community
- Mixed Plantation Woodland with no clear affinity to a NVC community
- Scrub and bracken not subject to NVC survey



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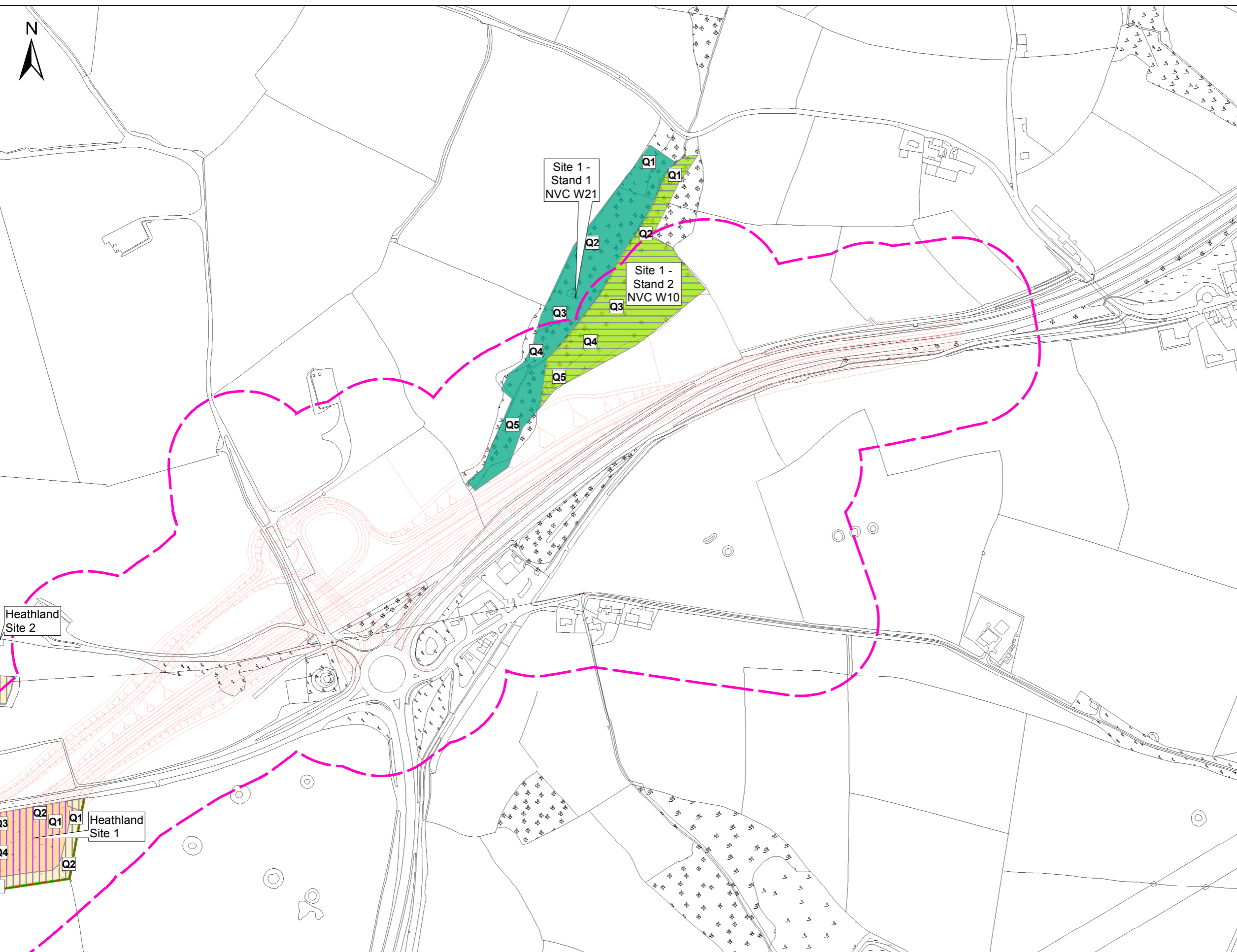
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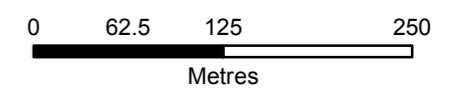
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	Revision:

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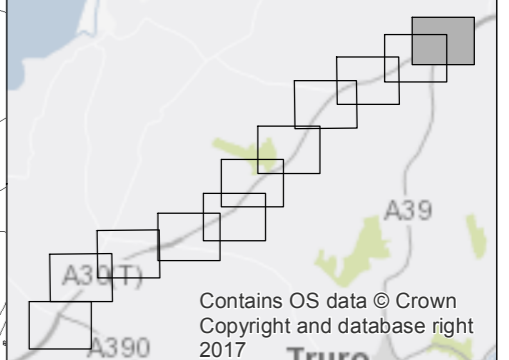
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 Login: DeSouzaJ
 Plot Date: 02/11/2017



- Proposed Route
- 100m Study Area
- Quadrat locations
- Hedgerow - W23 *Ulex europaeus* - *Rubus fruticosus* scrub
- Broad-leaved woodland NVC W10
Quercus robur - *Pteridium acquinum* - *Rubus fruticosus* woodland, with elements of the W10c *Quercus robur* - *Pteridium acquinum* - *Rubus fruticosus* woodland, *Hedex helix* sub-community
- Broad-leaved woodland NVC W21
Crataegus monogyna-*Hedra helix* scrub community
- H4a *Ulex gallii* - *Agrostis curtisii* heath, *Erica tetralix* sub-community
- Scrub and braken not subject to NVC survey



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Rev	Date	Description	By	Chk	App	Notes

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Client: **WSP**

Project: **A30 CHIVERTON TO CARLAND CROSS**

Title: **HEATHLAND AND WOODLAND SURVEY RESULTS**
PAGE 11 OF 11

Drawn: JSdS	Checked: ET
Designed: GH	Approved: UD
Date: 02/11/2017	Scale: 1:5,000
Project Number: 70004582	Drawing Number: FIGURE 2

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A30 Chiverton to Carland Cross Improvement Scheme Preliminary Environmental Information Report

PEIR Appendix 8.6 National Vegetation
Classification Survey Report of Grassland

Table 2 – Target notes (NB: combined NVC and Invertebrate scoping, therefore not all TNs relevant to NVC survey)

Target note	Date	Grid reference	Site	Feature	Description
1	22/05/2017	SW84832 54332	Site 1 (Priority Woodland edge/interior)	General broadleaved woodland and grassland edge habitat (western edge of wood)	Habitat close to concrete trough denoting north-eastern edge of allowed survey area. Mature broadleaved woodland, wet woodland at this point with <i>Salix cinerea</i> and <i>Ilex aquilinum</i> . General habitat low understorey/ex-coppice woodland with no real canopy layer. <i>Corylus avellana</i> and <i>Prunus spinosa</i> abundant. Ground layer south-west of this point fairly herb-poor and shaded with <i>Glechoma hederacea</i> , <i>Silene dioica</i> , <i>Hedera helix</i> . <i>Hyacinthoides non-scripta</i> abundant in wood to north-east, occurring with a range of other ancient woodland indicators. Edge habitat with Bramble <i>Rubus fruticosus</i> agg. scrub, tall herbs including <i>Heracleum sphondylium</i> and low growing <i>Ranunculus repens</i> and <i>Galium aparine</i> . Floristically poor.
2	22/05/2017	SW84791 54239	Site 1 (Priority Woodland edge/interior)	Corner of broadleaved woodland and field margin	Woodland interior rather dense and overgrown at this point. Margin of field (ploughed at time of survey) fairly narrow (c2-3m). Edge with woodland with Bramble <i>Rubus fruticosus</i> agg. scrub and herb layer with abundant <i>Ranunculus repens</i> , <i>Holcus lanatus</i> , <i>Urtica dioica</i> and <i>Heracleum sphondylium</i> and occasional <i>Veronica chamaedrys</i> , <i>Silene dioica</i> , <i>Pteridium aquilinum</i> and <i>Galium aparine</i> . Some open Bramble and hedgerow scrub with varied structure; woodland interior at this point heavily shaded. <i>Crataegus monogyna</i> , <i>Salix cinerea</i> in woodland edge.
3	22/05/2017	SW84848 54281	Site 1 (Priority Woodland edge/interior)	More open wet woodland interior	Wetter woodland interior with leggy, mature <i>Salix cinerea</i> and some <i>Corylus avellana</i> . Ground-layer with fairly diverse flora characteristic of more open woodland/ wet woodland. Species included <i>Mentha aquatica</i> , <i>Circaea lutetiana</i> , <i>Solanum dulcamara</i> , <i>Geranium robertianum</i> , <i>Hedera helix</i> , <i>Cardamine flexuosa</i> , <i>Geum urbanum</i> , <i>Holcus lanatus</i> , <i>Angelica sylvestris</i> , <i>Viola riviniana</i> , <i>Cirsium palustre</i> , <i>Ranunculus repens</i> , <i>R. flammula</i> , <i>Veronica montana</i> , <i>Galium palustre</i> , <i>Rumex sanguineus</i> , <i>Juncus effusus</i> and ferns including <i>Dryopteris dilatata</i> , <i>Blechnum spicant</i> and <i>Polypodium</i> sp. A partial scrub layer primarily Bramble <i>Rubus fruticosus</i> agg. was present and trees with abundant epiphytic bryophytes and lichens as well as <i>Lonicera periclymenum</i> .
4	22/05/2017	SW84890 54318	Site 1 (Priority Woodland edge/interior)	Habitat adjacent to concrete water pump building	The western extent of the southern woodland margin for which survey was permitted (adjacent to a concrete water pump building at the woodland edge). Woodland margin sinuous with a good structural succession from woodland understorey, through bramble scrub zone, tall ruderal and grassland habitats. Woodland edge with <i>Salix cinerea</i> , <i>Corylus avellana</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , scrub with <i>Rubus fruticosus</i> agg. and scattered <i>Ulex europaeus</i> and <i>Rubus idaea</i> . Tall ruderal vegetation with <i>Urtica dioica</i> , <i>Cirsium palustre</i> , <i>C. arvense</i> , <i>Angelica sylvestris</i> and <i>Heracleum sphondylium</i> . Uneven grassland sward with <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Ranunculus repens</i> , <i>Plantago lanceolata</i> , <i>Rumex acetosa</i> , <i>Veronica chamaedrys</i> , <i>Dactylis glomerata</i> . Wetter areas with <i>Juncus effusus</i> , <i>Alopecurus geniculatus</i> and <i>Juncus bufonius</i> etc.

Target note	Date	Grid reference	Site	Feature	Description
5	22/05/2017	SW84831 54241	Site 1 (Priority Woodland edge/interior)	Woodland edge seepage and scallop habitat	Woodland edge scalloped adjacent to area of wet grassland/rush pasture seepage habitat. Wet woodland margin predominately <i>Salix cinerea</i> , with extensive Bramble <i>Rubus fruticosus</i> agg. scrub margin. Adjacent wet grassland habitat structurally diverse and disturbed, with water at around and in places, slightly above the soil surface. Possibly spring fed and flowing downslope. Vegetation varied with patches of <i>Juncus effusus</i> , <i>J. bufonius</i> , <i>Glyceria</i> sp., some tall ruderal vegetation with <i>Epilobium hirsutum</i> , <i>Pulicaria dysenterica</i> , <i>Solanum dulcamara</i> , <i>Cirsium palustre</i> and shorter vegetaion including marshy <i>Holcus lanatus</i> , and <i>Agrostis stolonifera</i> grassland with <i>Alopecurus geniculatus</i> , <i>Anthoxanthum odoratum</i> and <i>Ranunculus repens</i> . Also bare ground areas with surface water and scattered forbs including <i>Cardamine flexuosa</i> and in wetter areas, <i>Callitriche</i> spp. .
6	22/05/2017	SW85030 54408	Site 1 (Priority Woodland edge/interior)	Field margin with wood edge	Edge habitat similar to TN4 but with more flower-rich herb margin with <i>Veronica chamaedrys</i> , <i>Ranunculus repens</i> and <i>Rumex acetosa</i> in a sward of <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> and <i>Dactylis glomerata</i> . Extensive <i>Rubus fruticosus</i> agg. and <i>Ulex europaeus</i> scrub layer between grassland and woodland margins. Woodland edge drier, with <i>Corylus avellana</i> , <i>Prunus spinosa</i> and some <i>Crataegus monogyna</i> .
7	22/05/2017	SW84177 53731	Site 3 (Humid heath - eastern section)	General heathland (H4)	Flattish area of H4 <i>Ulex gallii</i> - <i>Agrostis curtisii</i> humid heath typical of southwest England. <i>Calluna vulgaris</i> , <i>Erica cinerea</i> and <i>Ulex gallii</i> variously co-dominant, with frequent to abundant graminoids including <i>Agrostis curtisii</i> and <i>Molinia caerulea</i> and occasional to rare <i>Potentilla erecta</i> , <i>Carex binervis</i> , <i>Ulex europaeus</i> and <i>Rubus fruticosus</i> agg. General stand uniformly late building to mature stage, with little bare ground. Some patches of <i>Salix cinerea</i> and <i>Ulex europaeus</i> scrub and <i>Pteridium aquilinum</i> locally dominant/abundant. Small amounts of <i>Erica tetralix</i> occurring in damper areas, particularly close to the A30 to the eastern corner of the patch.
8	22/05/2017	SW84226 53703	Site 3 (Humid heath - eastern section)	Area with <i>Molinia caerulea</i> and <i>Pteridium aquilinum</i> dominant	Tussocky strip adjacent to heath with <i>Molinia caerulea</i> and <i>Pteridium aquilinum</i> co-dominant, with <i>Agrostis curtisii</i> , <i>Teucrium scorodonia</i> , <i>Digitalis purpurea</i> , <i>Rubus fruticosus</i> agg., <i>Anthoxanthum odoratum</i> and <i>Potentilla erecta</i> . Habitat with deep litter layer and few ericoids. Edge habitat with <i>Urtica dioica</i> and <i>Heracleum sphondylium</i> .
9	22/05/2017	SW84321 53779	Site 2 (Grassland west of Carland Cross)	Improved grassland	Grassland recorded as semi-improved in existing Phase 1, but clearly improved at time of current survey. Sward uniformly <i>Lolium perenne</i> dominated with locally abundant <i>Ranunculus repens</i> and frequent <i>Rumex obtusifolius</i> , but few other herbs. (excluded from botanical and invertebrate survey)

Target note	Date	Grid reference	Site	Feature	Description
10	22/05/2017	SW84129 53748	Site 4 (Mixed woodland and pond)	Mixed woodland with <i>Pinus maritima</i> , <i>Quercus ilex</i> and native broadleaves around ex-quarry pond	Mature planted mixed woodland sandwiched between two patches of heathland (Sites 3 and 5). Habitat with mature <i>Pinus maritima</i> and <i>Quercus ilex</i> , surrounding a largish pond located in a steep-sided basin with dense, <i>Salix cinerea/caprea</i> scrub on slopes down to pond margin. At interface with heathland edge and below canopy, heathland grades into a low <i>Rubus fruticosus</i> agg. and <i>Lonicera periclymenum</i> scrub layer, with areas of bare ground, typically with leaf litter (pine needles and <i>Q. ilex</i> leaves) and plants including <i>Holcus lanatus</i> , <i>Agrostis curtisii</i> , <i>Teucrium scorodonia</i> and <i>Digitalis purpurea</i> . Extensive resource of fallen branches and twigs at ground layer providing an often shaded wood decay resource. Broadleaves present in woodland mainly towards western interface with Site 5, including <i>Prunus spinosa</i> , <i>Quercus petraea</i> , <i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> and <i>Fraxinus excelsior</i> . Groundflora in western section with <i>Viola riviniana</i> , <i>Brachypodium sylvaticum</i> , <i>Asplenium scolopendrium</i> , <i>Primula vulgaris</i> and <i>Hyacinthoides non-scripta</i> with introduced <i>H. hispanica</i> and <i>Allium triquetrum</i> . Habitat close to upper slopes of pond with remnant patches of heathland (described in TN11)
11	22/05/2017	SW84093 53714	Site 4 (Mixed woodland and pond)	Small patch of heathland adjacent and above pond	Small patch of sheltered <i>Erica cinerea</i> and <i>Ulex gallii</i> dominated heath overlooking pond. With cliffed-edges and varied microtopography. Ericoids building to mature stage with <i>Molinia caerulea</i> , <i>Agrostis curtisii</i> and <i>Rubus fruticosus</i> agg. Habitat open and south-facing, but sheltered by surrounding woodland. Patches of bare ground present (virtually absent on adjacent heathland sites).
12	22/05/2017	SW83930 53680	Site 5 (Humid heath - western section)	General heathland (H4)	Heathland similar in size and shape to the eastern fragment (TN7). <i>Calluna vulgaris</i> , <i>Erica cinerea</i> and <i>Ulex gallii</i> variously co-dominant, with abundant <i>Agrostis curtisii</i> and <i>Molinia caerulea</i> . <i>Potentilla erecta</i> frequent and <i>Teucrium scorodonia</i> , <i>Polygala serpyllifolia</i> and <i>Galium saxatile</i> occasional to locally abundant. <i>Erica ciliaris</i> was also recorded in small amounts towards the westernmost extremity of the site (see TN13). Also bryophyte patches, mainly <i>Campylopus introflexus</i> . Habitat with areas of varied microtopography, including a slightly cliffed ditch edge, which afforded small amounts of bare ground. Ericoids generally late building to mature, with more mature grassy patches persisting towards the west of the site.
13	22/05/2017	SW83854 53660	Site 5 (Humid heath - western section)	More grassy heath at western end of unit	More grassy heath towards western end of more mature heathland stand. <i>Agrostis curtisii</i> and <i>Molinia caerulea</i> abundant, with <i>Ulex gallii</i> , <i>Calluna vulgaris</i> , <i>Erica cinerea</i> , <i>Potentilla erecta</i> and more occasional <i>Teucrium scorodonia</i> , <i>Potentilla erecta</i> , <i>Polygala serpyllifolia</i> and <i>Galium saxatile</i> . <i>Erica ciliaris</i> locally recorded here but not elsewhere within the site. A ditch bisecting site north to south afforded some small bare earth patches.

Target note	Date	Grid reference	Site	Feature	Description
14	22/05/2017	SW83975 53676	Site 5 (Humid heath - western section)	Heather covered tumulus	Raised barrow providing microtopographic variation. Habitat with similar vegetation composition and structure as surrounding heath. Little bare ground, but microtopographic varying from flatter surrounding habitat. Sloughed Adder <i>Vipera berus</i> skin found on top of tumulus.
15	22/05/2017	SW74480 49750	Site 15 (Priority woodland)	Small triangular area of broadleaved woodland adjacent to A30	Small triangular stand of mature, broadleaved standards including <i>Quercus petraea</i> , <i>Acer pseudoplatanus</i> , <i>Fagus sylvatica</i> , <i>Fraxinus excelsior</i> . Fairly open and little structure. No significant understorey or scrub layers. Ground/field layer grassy throughout with <i>Poa trivialis</i> , <i>Lolium perenne</i> and <i>Dactylis glomerata</i> and herbs including <i>Cerastium fontanum</i> , <i>Silene dioica</i> , <i>Ranunculus repens</i> , <i>Rumex sanguineus</i> , <i>Ranunculus ficaria</i> , <i>Urtica dioica</i> , <i>Stellaria media</i> and <i>Ranunculus acris</i> . In addition, one species <i>Veronica montana</i> which is considered to be an ancient woodland indicator species in southwest England, was recorded. The non-native invasive <i>Hyacinthoides hispanica</i> was also recorded, however, native <i>H. non-scripta</i> was absent. Whilst many of the trees were mature and some showed signs of historic coppicing (being multitemmed). The wood was fairly open, with dappled shade at ground layer, but lacked structural diversity and there was little fallen or standing wood decay habitat, although some trees on the eastern boundary/hedge-bank had some rot holes and flaking bark. The wood was open to grazing by cattle and the sward uniformly c20cm tall.
16	23/05/2017	SW82933 53166	Site 7 (Grass verge mapped as Priority 'calcareous grassland')	Mown verge with fairly herb-rich semi-improved grassland	Described as 'calcareous grassland priority habitat'. Verge c15m at widest point, extending for approximately 300m along northern boundary of the existing A30. Sward mowed shortly prior to survey and uniformly 5cm tall throughout. Grassland with graminoids including <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Dactylis glomerata</i> , <i>Festuca rubra</i> , <i>Luzula campestris</i> and forbs including <i>Ranunculus repens</i> , <i>Lotus corniculatus</i> , <i>Plantago lanceolata</i> , <i>Geranium dissectum</i> , <i>Centaurea nigra</i> , <i>Achillea millefolium</i> , <i>Ranunculus bulbosus</i> , <i>Trifolium pratensis</i> , <i>Rumex crispus</i> , <i>Potentilla reptans</i> , <i>Potentilla anserina</i> , <i>Trifolium repens</i> , <i>Taraxacum officinale</i> (agg.), <i>Cerastium fontanum</i> , <i>Veronica chamaedrys</i> , <i>Rumex acetosa</i> , <i>Sagina procumbens</i> , <i>Vicia sativa</i> , <i>Cirsium arvense</i> and <i>Heracleum sphondylium</i> . Taller grassland close to the hedgerow/scrub edge with <i>Heracleum sphondylium</i> , <i>Rubus fruticosus</i> (agg.), <i>Ulex europaeus</i> and <i>Galium aparine</i> .

Target note	Date	Grid reference	Site	Feature	Description
17	23/05/2017	SW82965 53228	Site 8 (Mapped as SI grassland along field margin)	Hedgerow/field margin habitat	Field with ruderal vegetation (<i>Epilobium</i> sp.) and bare ground. Hedge-bank lacking woody species, but with c2m wide grassy margin. Tall grasses mainly <i>Dactylis glomerata</i> and <i>Holcus lanatus</i> with <i>Urtica dioica</i> , <i>Pteridium aquilinum</i> , <i>Heracleum sphondylium</i> , <i>Aphanes arvensis</i> , <i>Geranium robertianum</i> , <i>Ranunculus repens</i> , bare ground but low diversity. Hedgebank variously with tall, rank <i>Dactylis glomerata</i> , <i>Holcus lanatus</i> , <i>Digitalis purpurea</i> , <i>Heracleum sphondylium</i> , <i>Rubus fruticosus</i> agg., <i>Pteridium aquilinum</i> , <i>Teucrium scorodonia</i> , <i>Lonicera periclymenum</i> , <i>Galium aparine</i> , <i>Umbilicus rupestris</i> , with few woody species but <i>Prunus spinosa</i> further north with <i>Galium mollugo</i> and <i>Festuca rubra</i> .
18	23/05/2017	SW82953 53263	Site 8 (Mapped as SI grassland along field margin)	Ploughed and sown field and field margin	Field margin indicated as 'SI grassland' on Phase 1 map. Ploughed to margin and sown with arable (wheat) crop. No remaining marginal habitat. Adjacent hedgebank as TN17.
19	23/05/2017	SW82564 52950	Site 9 (Wet and dry grassland and woodland margin north of Honeycombe Barn)	Wetland and scrub at woodland edge (western edge of woodland)	Herb-rich woodland edge wet grassland and scrub at woodland margin. Habitat with diverse structural succession from wet grassland, tall ruderal and fen, through scrub to woodland edge, scrub forming a mosaic with tall herbs and shorter grassland/swamp habitat. Grassland with rich-flower resource, with graminoids including <i>Holcus lanatus</i> , <i>Poa trivialis</i> and <i>Juncus effusus</i> , with forbs including <i>Ranunculus repens</i> , <i>Veronica beccabunga</i> , <i>Myosotis scorpioides</i> , <i>Scrophularia auriculata</i> , <i>Pulicaria dysenterica</i> , <i>Lychnis flos-cuculi</i> , <i>Stellaria graminea</i> , <i>Rumex crispus</i> , <i>Cardamine pratensis</i> , <i>Urtica dioica</i> , <i>Cirsium palustre</i> , <i>Mentha aquatica</i> , <i>Epilobium hirsutum</i> , <i>Angelica sylvestris</i> , <i>Galium palustre</i> , <i>G. aparine</i> . Scrub mainly <i>Rubus fruticosus</i> (agg.) and woodland margin with <i>Corylus avellana</i> and <i>Salix caprea/cinerea</i> . Woodland carr habitat at this point with standing water.
20	23/05/2017	SW82618 52909	Site 9 (Wet and dry grassland and woodland margin north of Honeycombe Barn)	Wet woodland interior (towards northern end of wood)	Fairly shaded wet woodland interior. Mainly low canopy woodland/carr with leggy <i>Salix cinerea/caprea</i> (possibly hybrids occurring), with <i>Fraxinus excelsior</i> and understorey also of lower growing <i>Salix cinerea/caprea</i> with <i>Sambucus nigra</i> and <i>Corylus avellana</i> and <i>Hedera helix</i> , <i>Lonicera periclymenum</i> and <i>Rubus fruticosus</i> (agg.) mainly in the scrub layer. Some <i>Prunus spinosa</i> and <i>Crataegus monogyna</i> at margins. Groundlayer mainly shaded with <i>Hedera helix</i> , <i>Urtica dioica</i> , <i>Circaea lutetiana</i> , <i>Glyceria</i> sp., <i>Cardamine flexuosa</i> , <i>Dryopteris dilatata</i> , <i>Geranium robertianum</i> , <i>Galium palustre</i> , <i>Rumex sanguineus</i> , <i>Blechnum spicant</i> . Non-native Spanish Bluebell <i>Hyacinthoides hispanica</i> also present. Small stream flowing through centre of woodland with steep banks in places. Bryophytes and lichens abundant in places.

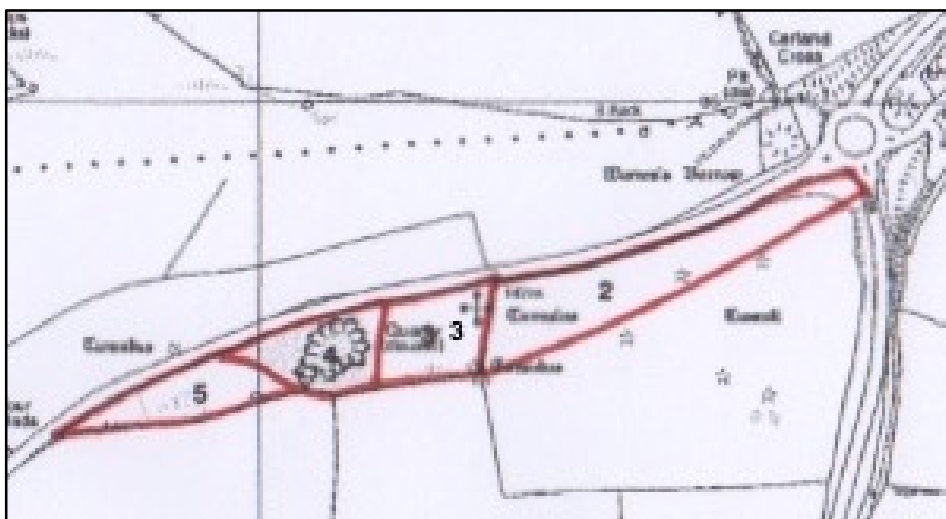
Target note	Date	Grid reference	Site	Feature	Description
21	23/05/2017	SW82626 52870	Site 9 (Wet and dry grassland and woodland margin north of Honeycombe Barn)	East-facing flower-rich SI grassland at woodland edge	Herb-rich SI grassland on moderately steep east facing slope c20m wide sloping downwards to woodland margin. Sward height c5-10cm at time of survey and apparently managed by livestock grazing (cattle). Sward with graminoids including <i>Anthoxanthum odoratum</i> and <i>Holcus lanatus</i> and forbs including abundant <i>Ranunculus repens</i> , <i>Veronica chamaedrys</i> and <i>Plantago lanceolata</i> with <i>Lotus corniculatus</i> , <i>Medicago lupulina</i> , <i>Rumex acetosa</i> , <i>Hypochaeris radicata</i> , <i>Trifolium repens</i> , <i>Ranunculus acris</i> , <i>Centaurea nigra</i> and <i>Centaureum erythraea</i> . Fairly damp at slope bottom, drier upslope. Many small bare ground patches.
22	23/05/2017	SW82667 52835	Site 9 (Wet and dry grassland and woodland margin north of Honeycombe Barn)	General woodland interior (southern end of wood)	Woodland interior slightly more open than at TN20. Canopy with leggy <i>Fraxinus excelsior</i> and <i>Quercus robur</i> and tall <i>Salix caprea/cinerea</i> . Understorey with shorter <i>Salix caprea/cinerea</i> , <i>Crataegus monogyna</i> and <i>Ilex aquifolium</i> . Scrub layer with <i>Rubus fruticosus</i> (agg.) and <i>Lonicera periclymenum</i> . Some more mature trees (<i>Quercus robur</i> and <i>Fraxinus excelsior</i>) on hedge-bank. Ground vegetation with <i>Urtica dioica</i> , <i>Rumex sanguinius</i> , <i>Carex remota</i> , <i>Cardamine flexuosa</i> , <i>Viola riviniana</i> , <i>Circaea lutetiana</i> , <i>Glyceria</i> sp., <i>Silene dioica</i> , <i>Geum urbanum</i> , <i>Geranium robertianum</i> , <i>Digitalis purpurea</i> , <i>Asplenium scolopendrium</i> , <i>Poa trivialis</i> and <i>Galium aparine</i> .
23	23/05/2017	SW83493 53258	Site 6 (Rush pasture/wet grassland/wet woodland edge)	Wet grassland and rush pasture	Survey area in the northwest corner of a large field variously comprising semi-improved wet grassland and rush pasture habitats and with an area of wet woodland at the western boundary. <i>Holcus lanatus</i> dominated wet grassland generally tall at time of survey and forming a mosaic with fairly dense <i>Juncus effusus</i> dominated stands. Some areas of site waterlogged, particularly towards the west of the field and increasing downslope from the survey area. Water level frequently at or close to the soil surface. Other graminoids abundant within the sward included <i>Anthoxanthum odoratum</i> , <i>Poa trivialis</i> , <i>Alopecurus geniculatus</i> , <i>Glyceria</i> sp. Herbs including <i>Ranunculus repens</i> , <i>Lotus pedunculatus</i> , <i>Rumex acetosa</i> , <i>Cirsium palustre</i> and <i>Cardamine pratensis</i> occurred both within the wet grassland and <i>Juncus</i> dominated stands, with species such as <i>Galium palustre</i> , <i>Myosotis scorpioides</i> , <i>Senecio aquaticus</i> , <i>Potentilla erecta</i> , <i>Mentha aquatica</i> , <i>Ranunculus flammula</i> and <i>Lychnis flos-cuculi</i> more confined to the wetter areas and <i>Juncus</i> stands. A strip of woodland followed the fenceline and included wetter carr with <i>Salix cinerea</i> and some <i>Alnus glutinosa</i> and areas of raised drier woodland with trees including mature <i>Quercus petraea</i> , <i>Ilex aquifolium</i> , <i>Fraxinus excelsior</i> and <i>Crataegus monogyna</i> . Rush pasture and fen habitat persisted to some extent beneath the wet woodland, with areas of seepage habitat and exposed, saturated mud. There was some wood decay habitat and saturated wood.

Target note	Date	Grid reference	Site	Feature	Description
24	23/05/2017	SW82314 52953	Site 10 (SI meadow and wet grassland)	Mesotrophic damp SI grassland adjacent to A30	Habitat managed as hay meadow. Habitat to east of site generally drier and to the west, areas of wetter grassland and rush pasture were recorded. Both swards were fairly herb-rich. At the time of survey the sward height was approximately 20cm being fairly uniform. Graminoids including <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Agrostis stolonifera</i> with <i>Lolium perenne</i> , <i>Dactylis glomerata</i> and <i>Cynosurus cristatus</i> with herbs including <i>Ranunculus acris</i> , <i>Lotus pedunculatus</i> , <i>Rumex acetosa</i> , <i>Trifolium repens</i> , <i>T. pratense</i> , <i>Centaurea nigra</i> , <i>Vicia sativa</i> , <i>Hypochaeris radicata</i> , <i>Geranium dissectum</i> , <i>Medicago lupulina</i> , <i>Lotus corniculatus</i> , <i>Cardamine pratensis</i> , <i>Heracleum sphondylium</i> , <i>Taraxacum officinale</i> (agg.). Field margin with taller herbs including abundant <i>Heracleum sphondylium</i> , <i>Digitalis purpurea</i> and <i>Silene dioica</i> with some <i>Rubus fruticosus</i> (agg.) Scrub. Hedgerow fairly uniform, cut with <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Crataegus monogyna</i> , <i>Ulex europaeus</i> and Italian Alder <i>Alnus cordata</i> ? Also with <i>Lonicera periclymenum</i> . Presence of Burnet Moth <i>Zygaena</i> sp. cocoons on old grass stems suggests that field is not frequently cut.
25	23/05/2017	SW80100 50580	Site 11 (SI grassland)	SI grassland (recently mowed at time of survey)	Recently mowed, SI mesotrophic grassland. Field used for equestrian activities (horse jumps). Sward with graminoids including <i>Holcus lanatus</i> and <i>Anthoxanthum odoratum</i> with <i>Dactylis glomerata</i> , <i>Festuca rubra</i> , and <i>Lolium perenne</i> and forbs including <i>Lotus corniculatus</i> , <i>Veronica chamaedrys</i> , <i>Plantago lanceolata</i> , <i>Hypochaeris radicata</i> , <i>Medicago lupulina</i> , <i>Centaurea nigra</i> , <i>Ranunculus repens</i> , <i>Rumex acetosa</i> , <i>Ranunculus repens</i> , <i>Rumex acetosa</i> , <i>Trifolium repens</i> , <i>T. pratense</i> , <i>Bellis perennis</i> , <i>Geranium dissectum</i> , <i>Rumex obtusifolius</i> . Field margin with slightly taller sward of similar composition but with <i>Brachypodium sylvaticum</i> , <i>Heracleum sphondylium</i> , <i>Prunus spinosa</i> (seedlings), <i>Galium mollugo</i> , <i>G. aparine</i> , <i>Silene dioica</i> , <i>Geranium robertianum</i> and <i>Pteridium aquilinum</i> . Woody species comprising hedge included <i>Prunus spinosa</i> , <i>Ulex europaeus</i> , <i>Rubus fruticosus</i> (agg.), <i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> . Uniformly cut.
26	23/05/2017	SW79917 50411	Site 12 (SI grassland)	SI grassland (sheep grazed)	<i>Holcus lanatus</i> dominant with <i>Anthoxanthum odoratum</i> . Similar composition to TN25, but with longer sward and sheep grazed (low density). Sward height C10cm. Hedgerow of similar composition to TN25, but less manicured.

Target note	Date	Grid reference	Site	Feature	Description
27	23/05/2017	SW80088 50222	Site 13 (Priority woodland - Nancarrow Farm)	Broadleaved woodland	Broadleaved woodland with canopy predominately of mature <i>Acer pseudoplatanus</i> with <i>Fraxinus excelsior</i> and <i>Quercus robur</i> . Understorey with <i>Corylus avellana</i> , <i>Ilex aquifolium</i> , <i>Crataegus monogyna</i> and <i>Taxus baccata</i> . Scrub layer generally of low <i>Rubus fruticosus</i> (agg.) throughout with <i>Rosa arvensis</i> . Shaded groundlayer with continuous <i>Hedera helix</i> carpet, with <i>Dryopteris filix-mas</i> and rather thinly scattered groundflora species including <i>Circaea lutetiana</i> , <i>Geranium robertianum</i> , <i>Galium aparine</i> , <i>Blechnum spicant</i> , <i>Asplenium scolopendrium</i> , <i>Hyacinthoides non-scripta</i> , <i>Urtica dioica</i> , <i>Ranunculus ficaria</i> , <i>Veronica montana</i> and <i>Brachypodium sylvaticum</i> . Varied structure and topography, some light reaching groundlayer in places but generally rather heavily shaded. Some bark and sapwood decay habitat.
28	23/05/2017	SW80044 50158	Site 13 (Priority woodland - Nancarrow Farm)	Hedgebank with mature <i>Quercus robur</i> and <i>Juncus</i> dominated strip	Hedgebank with mature <i>Quercus robur</i> and <i>Fraxinus excelsior</i> adjacent to a narrow strip of wet grassland with <i>Juncus effusus</i> co-dominant with <i>Holcus lanatus</i> . Also with <i>Anthoxanthum odoratum</i> , <i>Ranunculus repens</i> , <i>R. acris</i> , <i>Urtica dioica</i> , <i>Stellaria graminea</i> , <i>Cardamine flexuosa</i> , <i>Veronica chamaedrys</i> , <i>Ranunculus ficaria</i> , <i>Cirsium palustre</i> , <i>Scrophularia auricularia</i> . Patches of <i>Rubus fruticosus</i> (agg.) scrub also present in mosaic. Structural diversity.
29	23/05/2017	SW80044 50158	Site 14 (Marshy SI grassland south of Nancarrow Farm)	SI mesotrophic wet grassland	Mesotrophic wet grassland in western corner of a larger field. Sward tall (c30cm) at time of survey. <i>Holcus lanatus</i> and <i>Anthoxanthum odoratum</i> abundant in sward with scattered and locally dominant <i>Juncus effusus</i> . <i>Ranunculus acris</i> abundant with other herbs including <i>Plantago lanceolata</i> , <i>Rumex obtusifolius</i> , <i>R. crispus</i> , <i>Cardamine pratensis</i> , <i>Rumex acetosa</i> , <i>Geranium dissectum</i> , <i>Lotus pedunculatus</i> , <i>Galium palustre</i> , <i>Mentha aquatica</i> , <i>Myosotis laxa</i> and <i>Veronica chamaedrys</i> . Hedgerow margins with <i>Heracleum sphondylium</i> , <i>Silene dioica</i> , <i>Urtica dioica</i> , <i>Rubus fruticosus</i> (agg.), <i>Galium aparine</i> , <i>Geum urbanum</i> , <i>Cirsium palustre</i> and <i>Digitalis purpurea</i> . Woodland edge/hedgerow with <i>Salix cinerea/caprea</i> , <i>Crataegus monogyna</i> , <i>Corylus avellana</i> , <i>Prunus spinosa</i> , <i>Fraxinus excelsior</i> .
30	23/05/2017	SW78843 49410	Site 18 (Roadside Inventory BS315)	Listed due to presence of Babington's Leek <i>Allium ampeloprasum</i> var <i>babingtonii</i> ?	Verge surveyed initially as it was said to be 'heathland'. But only short, mown <i>Lolium perenne</i> dominated amenity grassland, with <i>Trifolium repens</i> , but v. herb-poor. Adjacent field ploughed to margin. No Babington's Leek recorded - though it was recorded in nearby Site 19.

Appendix 2 - Figures

Figure 1 – A30 scoping sites for combined grassland and invertebrate surveys (not to scale)



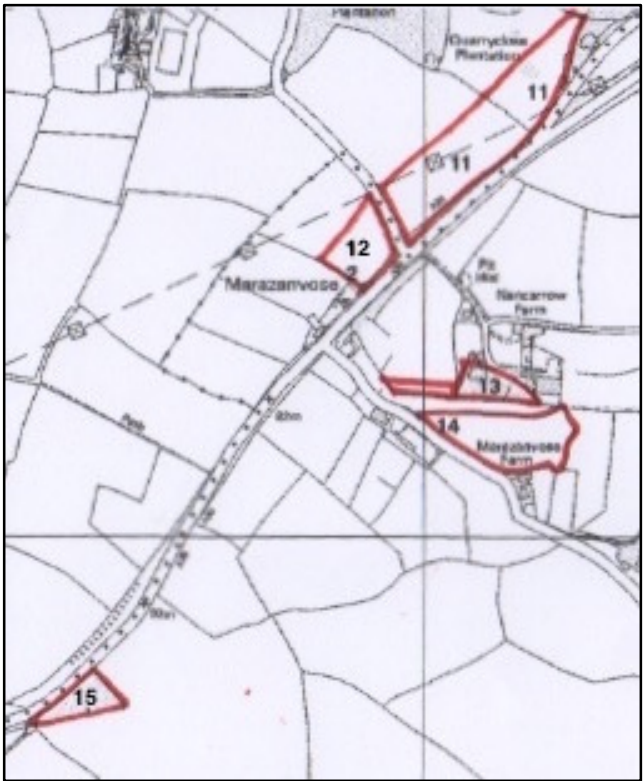
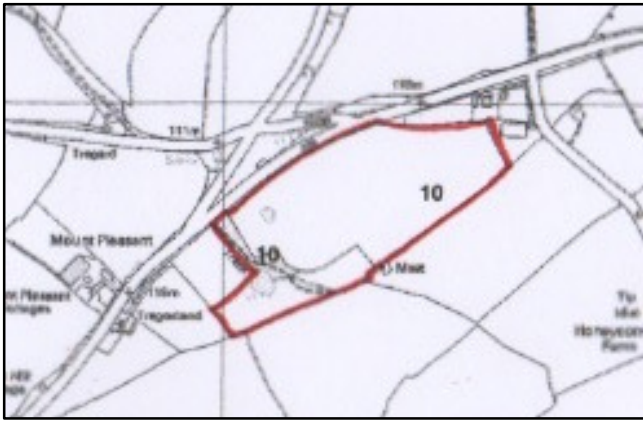
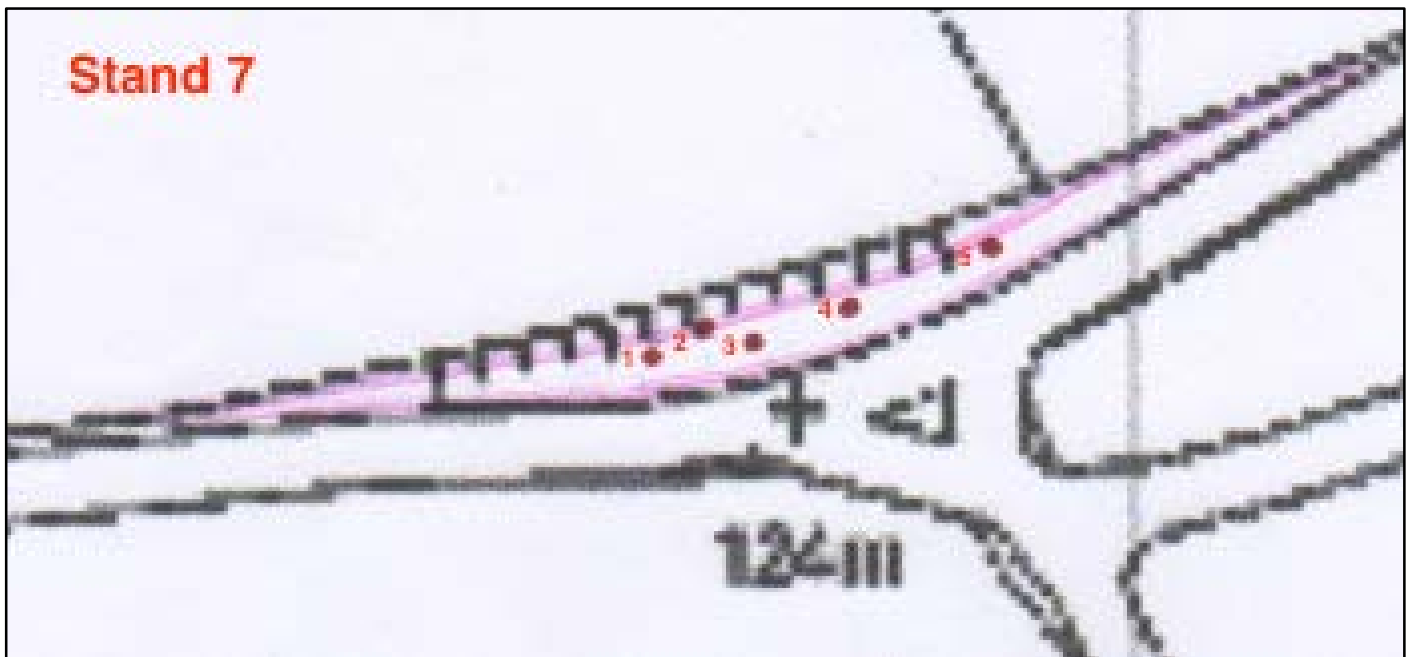
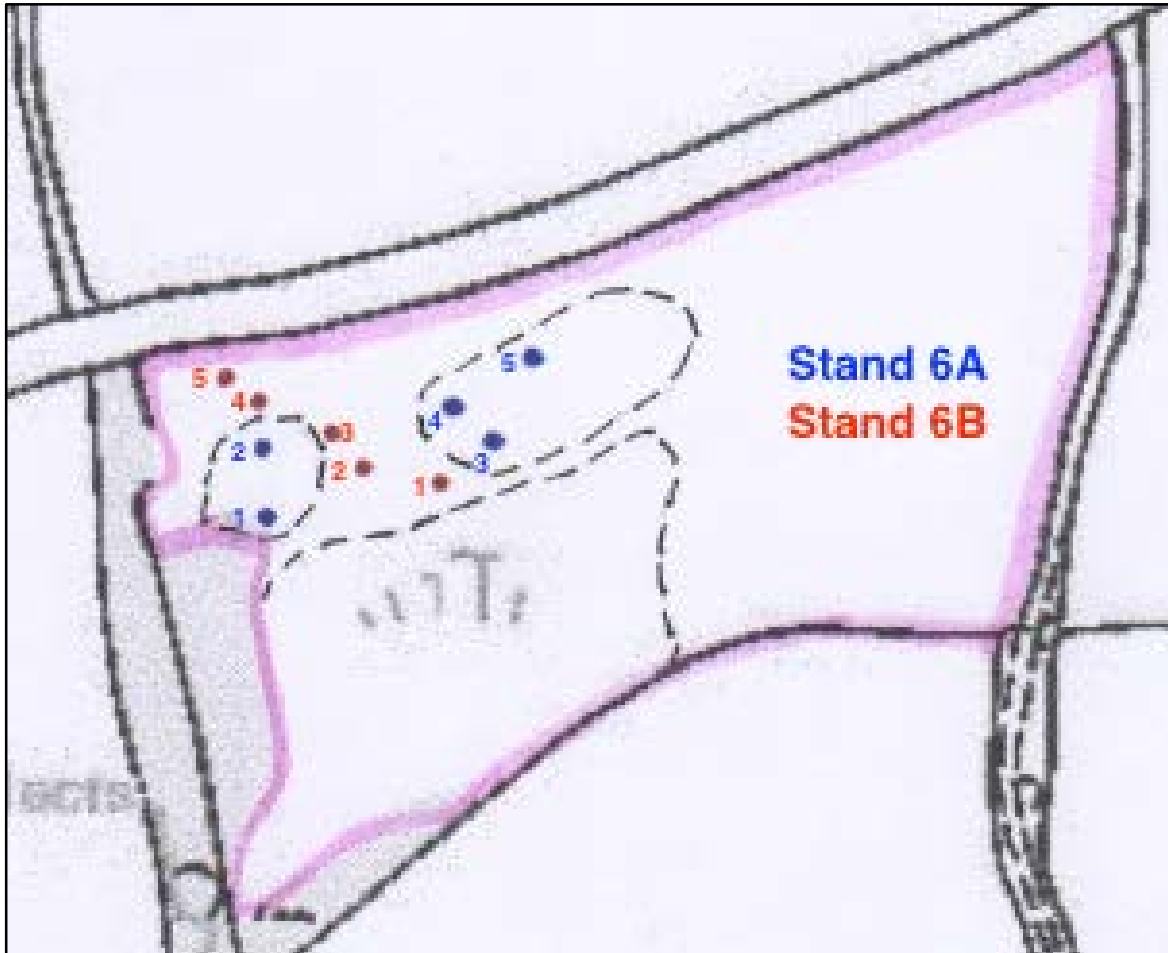
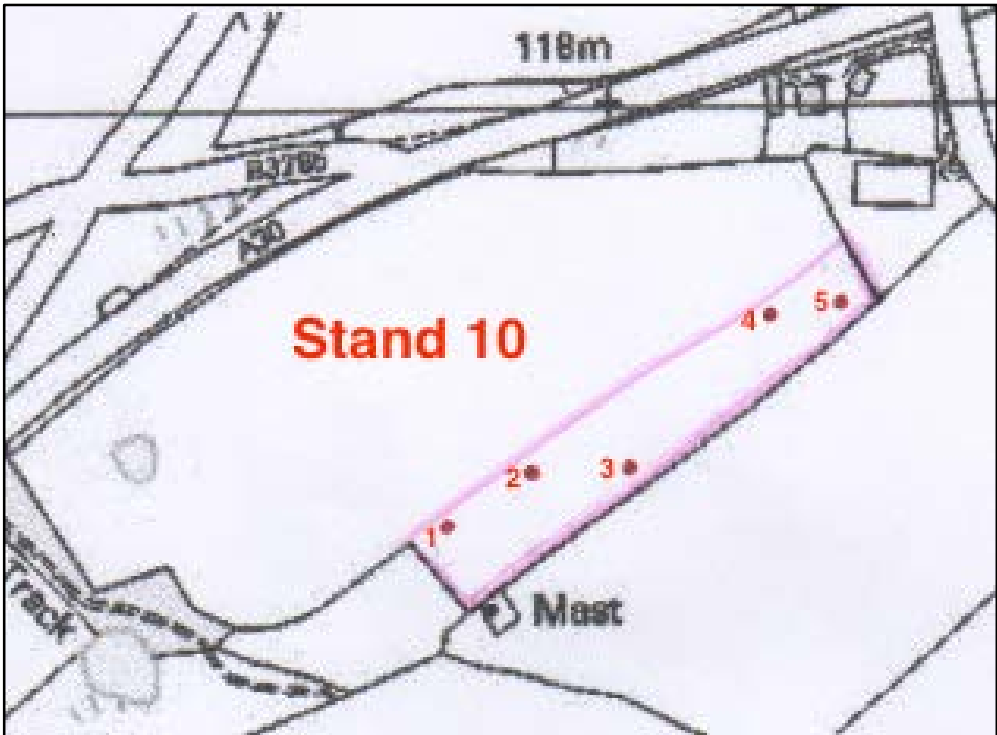
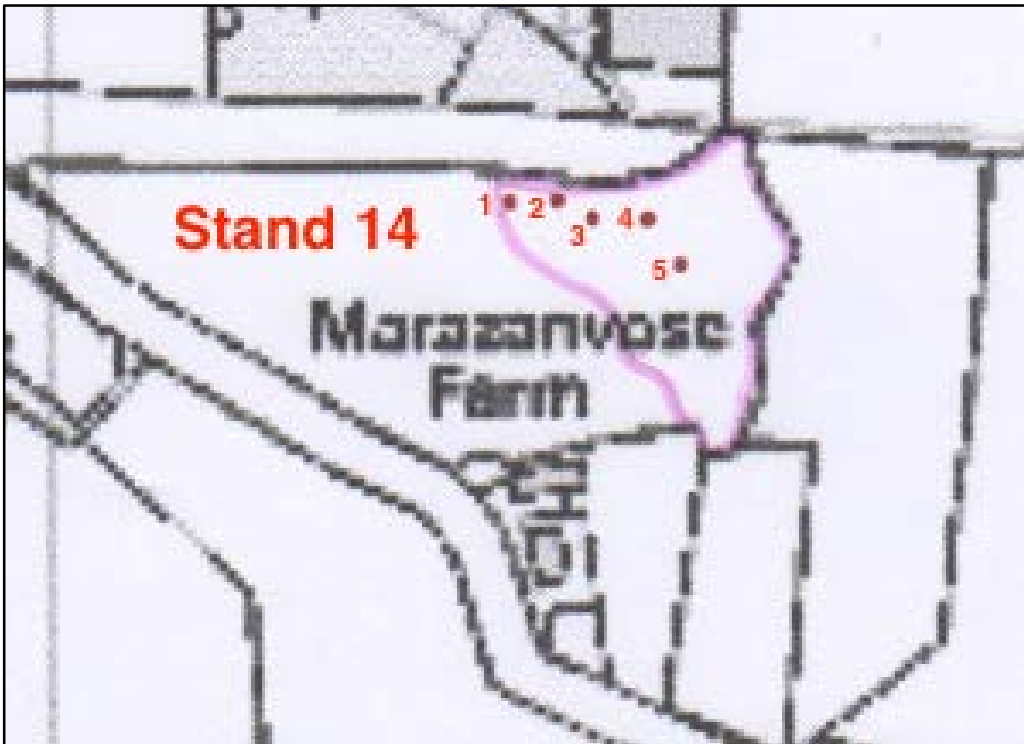
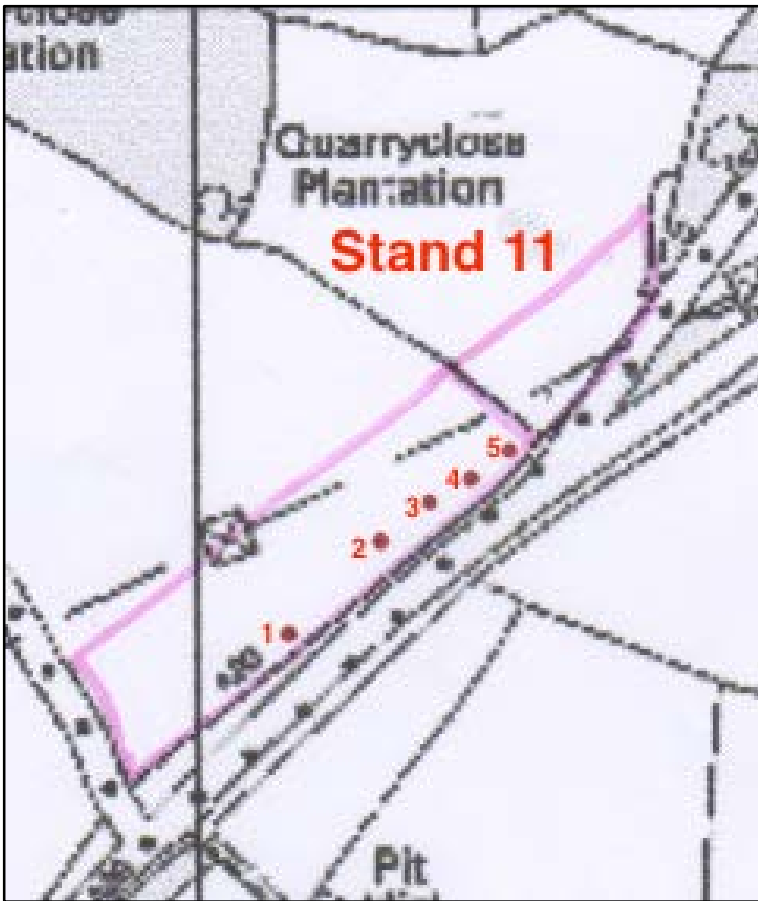
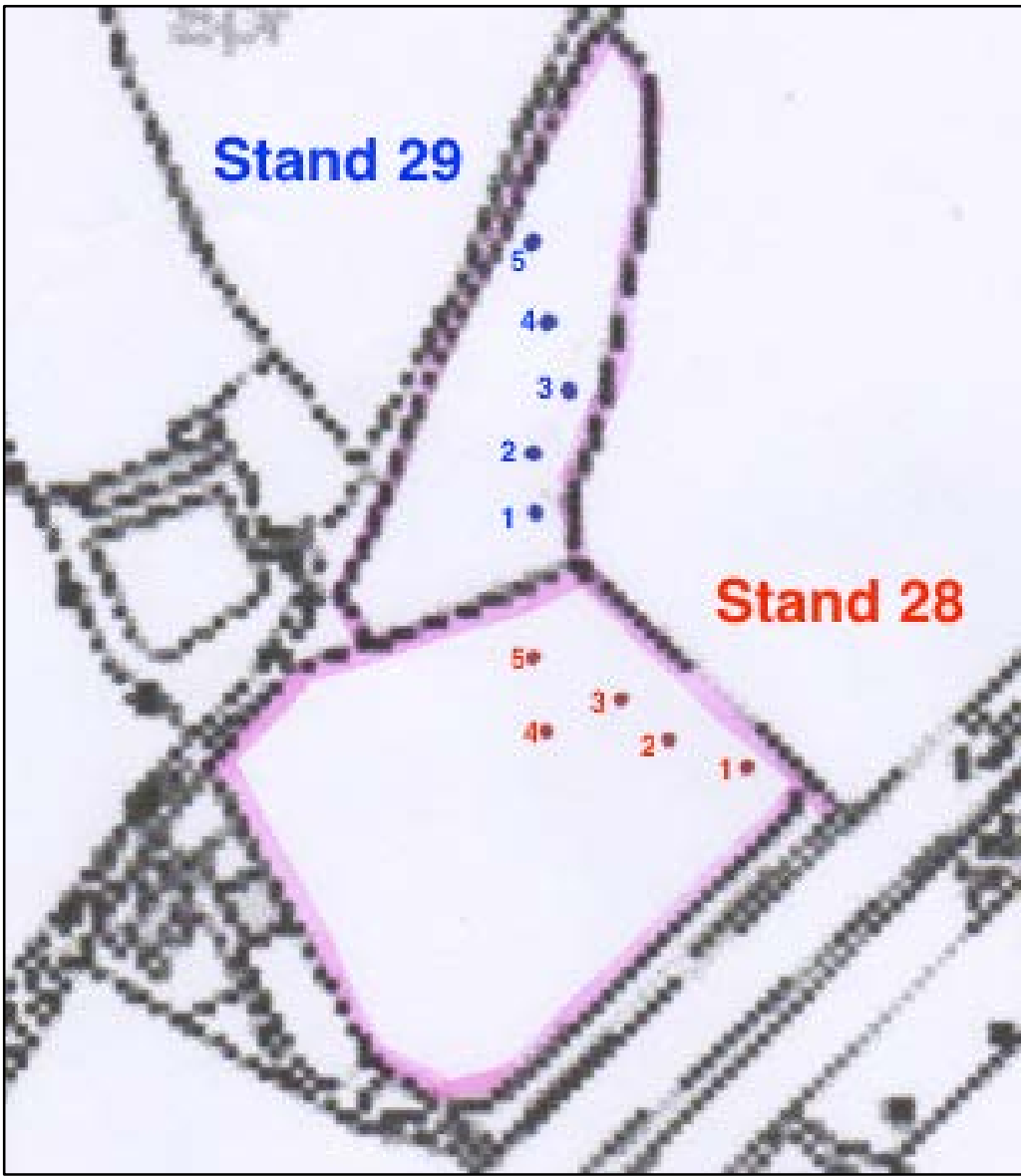


Figure 2 – NVC sites and stands surveyed – with numbered quadrat locations (not to scale)









Appendix 3 - Photographs



Photograph 1 – Stand 6a Quadrat 3



Photograph 2 – Stand 6b Quadrat 1



Photograph 3– Stand 7 Quadrat 5



Photograph 4 – Stand 9a Quadrat 3



Photograph 5 – Stand 9b



Photograph 6– Site 10 Quadrat 3



Photograph 7 – Site 11 Quadrat 3



Photograph 8– Site 14 Quadrat 5



Photograph 9 – Site 28 Quadrat 1



Photograph 10 –Site 29 Quadrat 5

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