

A358 Taunton to Southfields

Preliminary Ecological Appraisal (PEA)
Appendix D

360467-09-300-RE-001-01

June 2016

Highways England

Mott MacDonald
Sweco

A358 Taunton to Southfields

Preliminary Ecological Appraisal (PEA)

June 2016

Highways England

Temple Quay House, 2 The Square, Bristol, BS1 6HA

Issue and revision record

Revision	Date	Originator	Checker	Approver	Description
P1	8.06.2016	C. Wiseman	A. Evans	N Engerran	RFC



Information class: Standard

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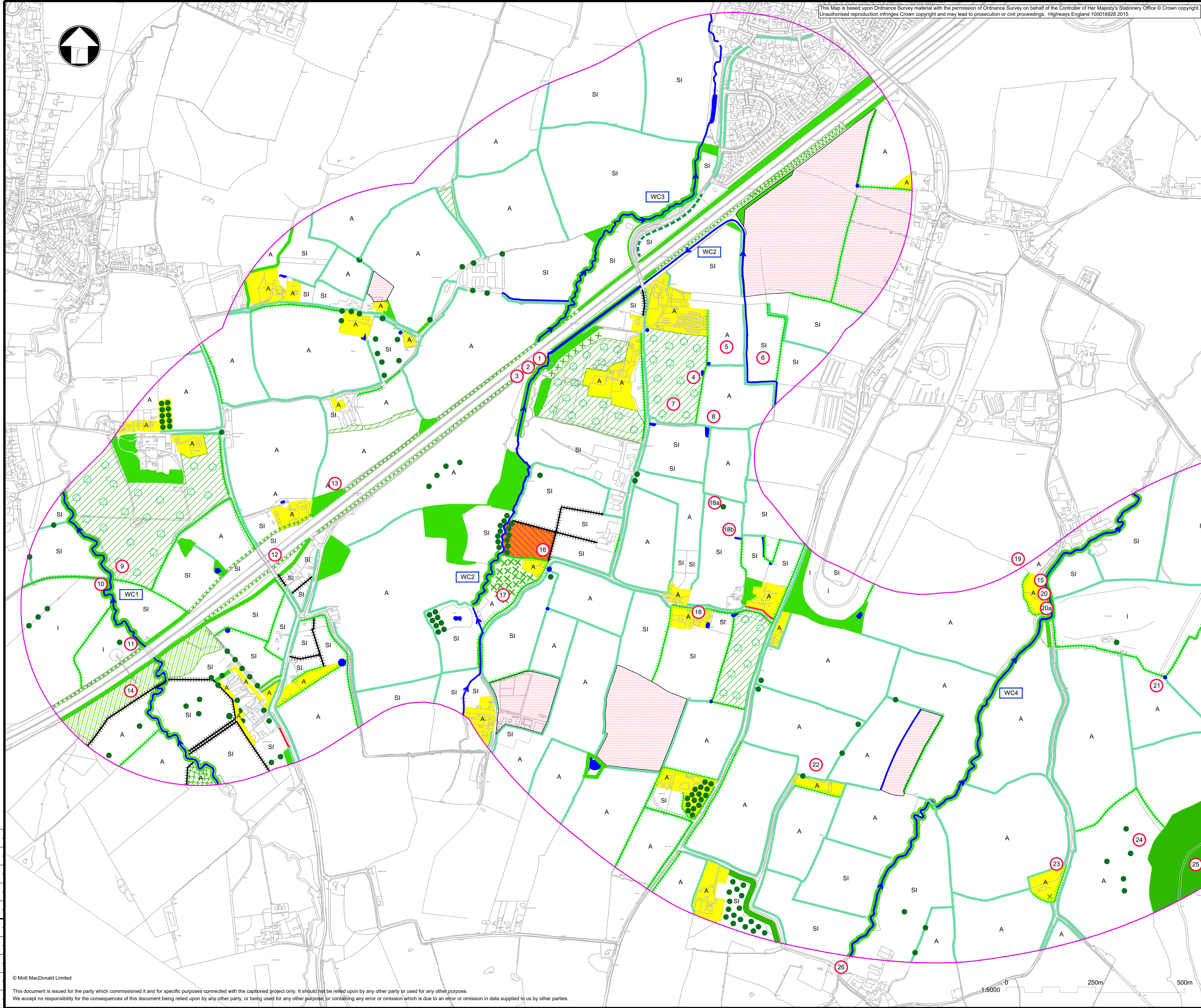
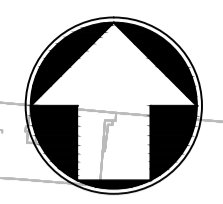
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Appendix D. Phase 1 Habitat Maps

D.1 Option 1

D.2 Options 2/2D, 8A/8B and 13.

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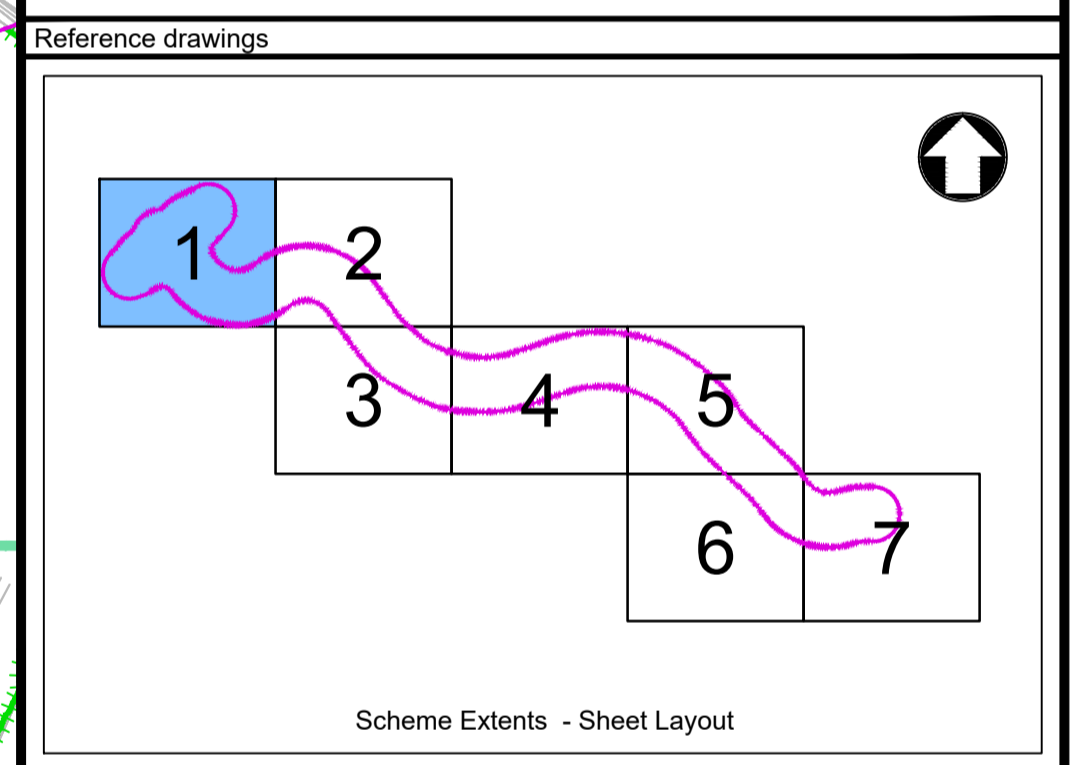


Notes

	Broad-leaved semi-natural woodland
	Broad-leaved plantation woodland
	Amentiferous grassland
	Mixed semi-natural woodland
	Marshy grassland
	Coniferous plantation woodland
	Mixed plantation woodland
	Tall ruderal
	Introduced shrub
	Dense continuous scrub
	Scrub - scattered
	Semi-improved natural grassland
	Standing water

Key to symbols

	Running water		Target note
	Poor semi improved grassland		Water course note
	Arable		Areas not surveyed
	Improved grassland		
	Scattered broad-leaved trees		
	Intact hedge - Native species poor		
	Defunct hedge - Native species poor		
	Hedge and tree - Native species poor		
	Fence		
	Intact hedge - Native species rich		
	Wall		
	Dry ditch		
	Option 1 (500m buffer)		



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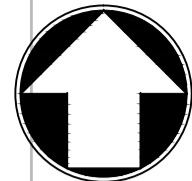
Project Title
A358 Taunton to Southfields

Drawing Title
**Phase 1 Habitat Survey
Option 1
(Sheet 1 of 7)**

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Original Size	A1	Date	MAY 2016	Date	JUNE 2016	Date	MAY 2016	Date	MAY 2016

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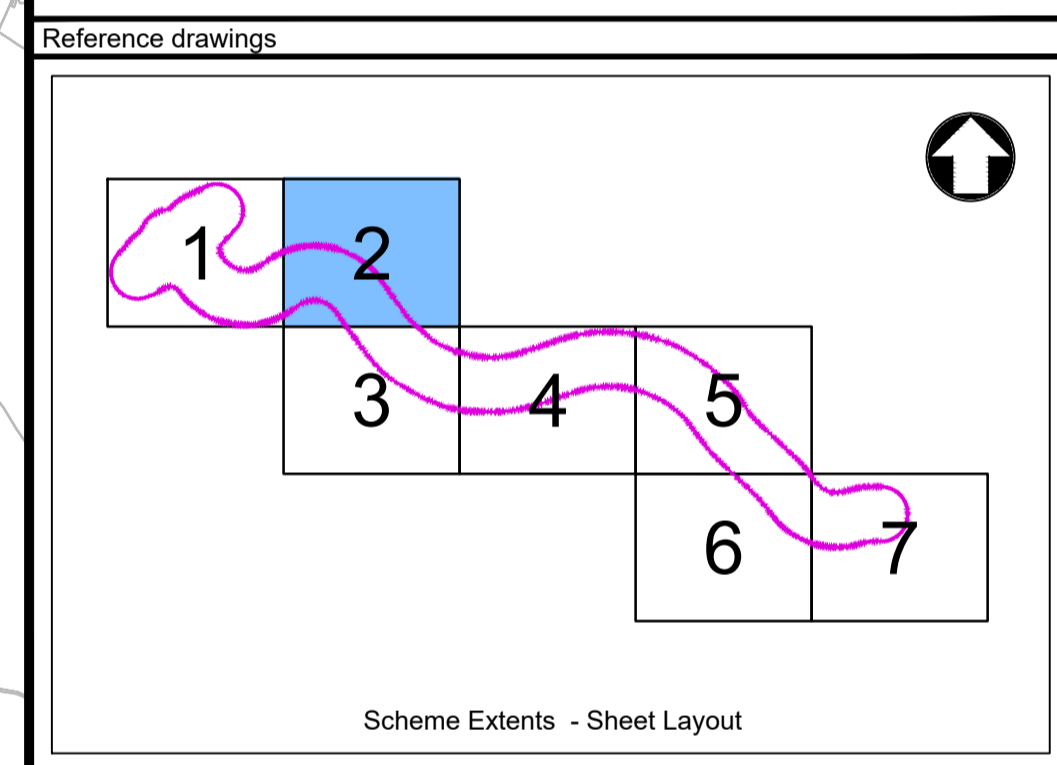


Notes

	Broad-leaved semi-natural woodland
	Broad-leaved plantation woodland
	Amenty grassland
	Mixed semi-natural woodland
	Marshy grassland
	Coniferous plantation woodland
	Mixed plantation woodland
	Tall ruderal
	Introduced shrub
	Dense continuous scrub
	Scrub - scattered
	Semi-improved natural grassland
	Standing water

Key to symbols

	Running water		Target note
	Poor semi improved grassland		Water course note
	Arable		Areas not surveyed
	Improved grassland		
	Scattered broad-leaved trees		
	Intact hedge - Native species poor		
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	Hedge and tree - Native species poor		
	Fence		
	Intact hedge - Native species rich		
	Wall		
	Dry ditch		
	Option 1 (500m buffer)		



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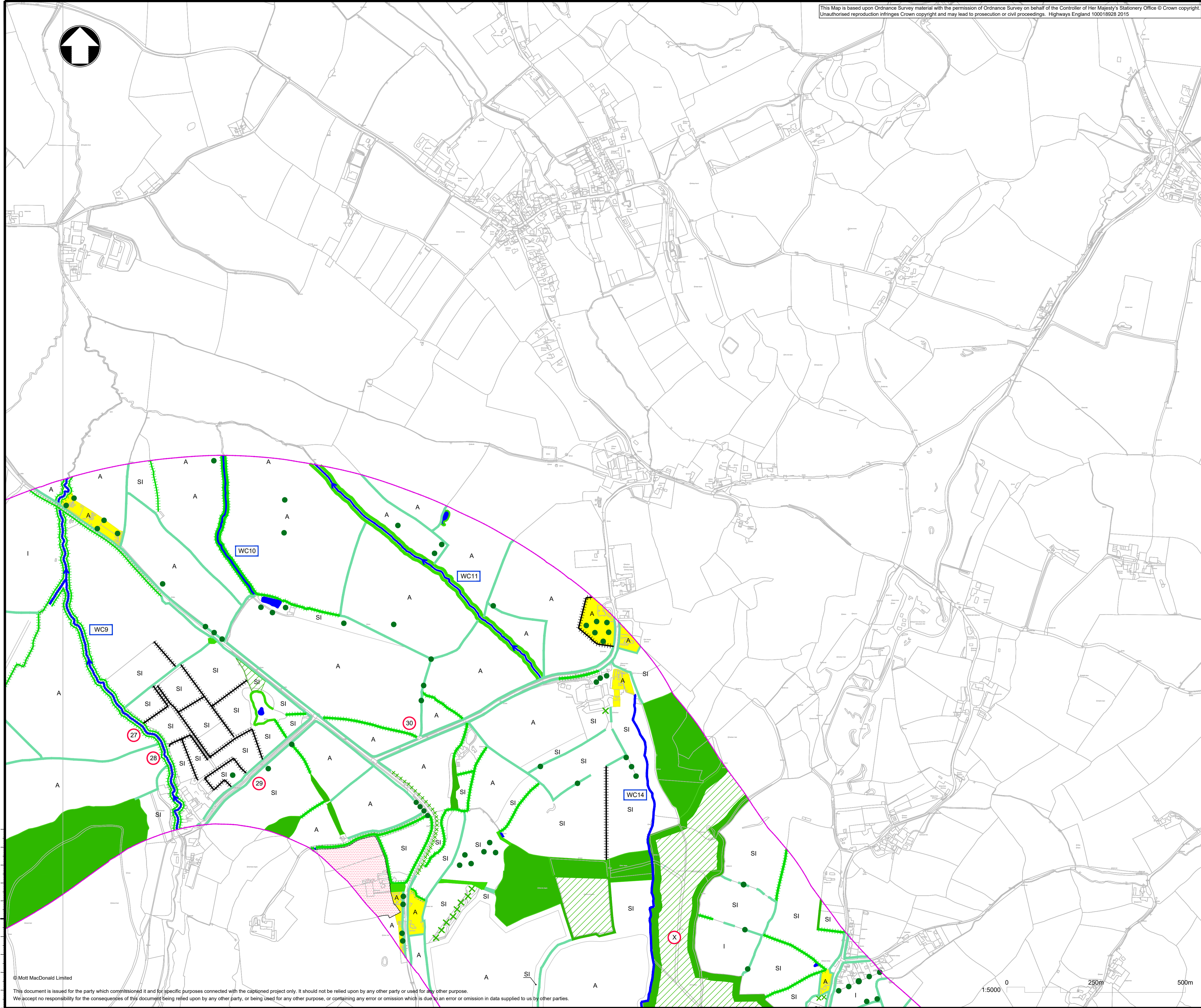
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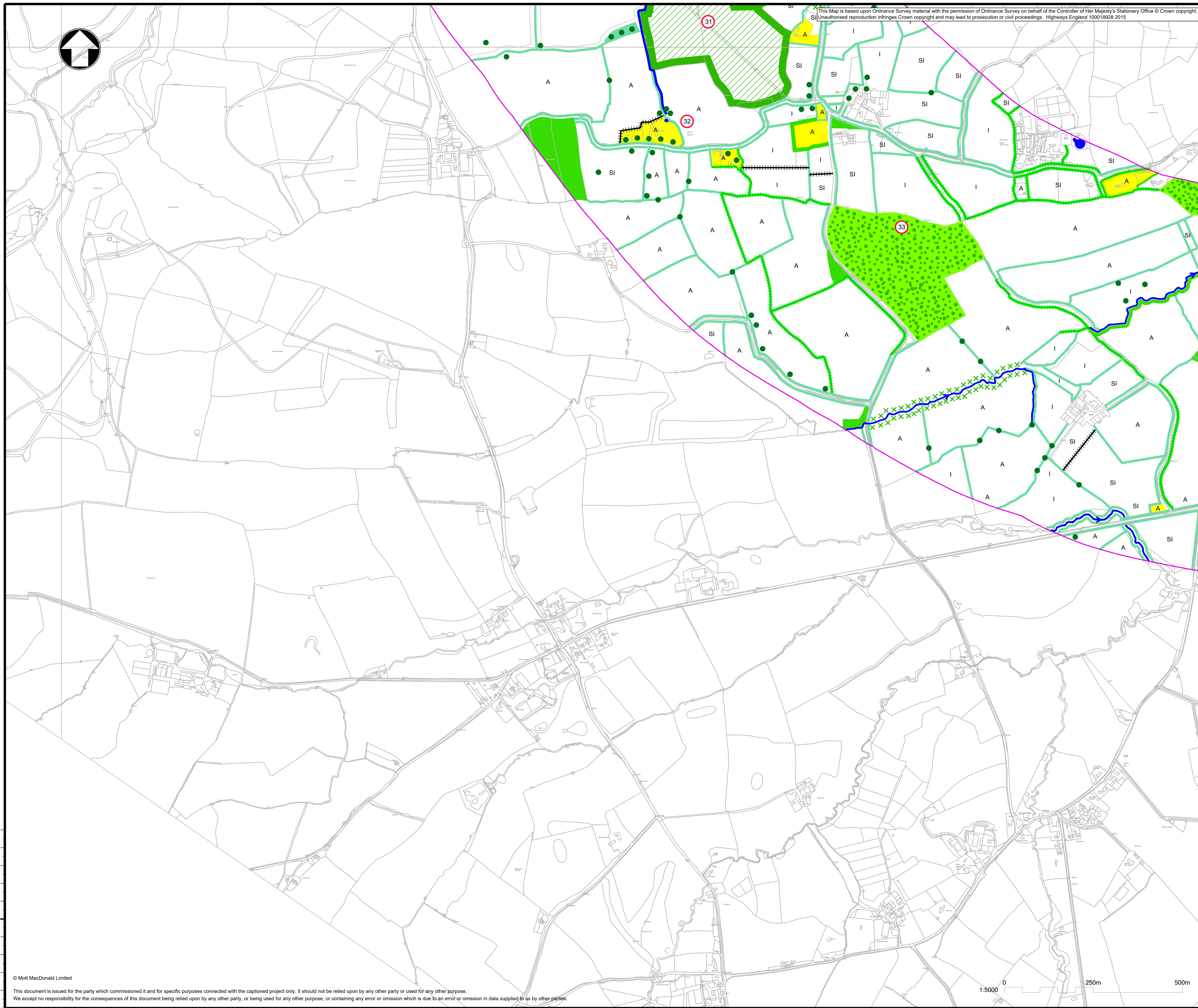
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**Phase 1 Habitat Survey
Option 1
(Sheet 2 of 7)**

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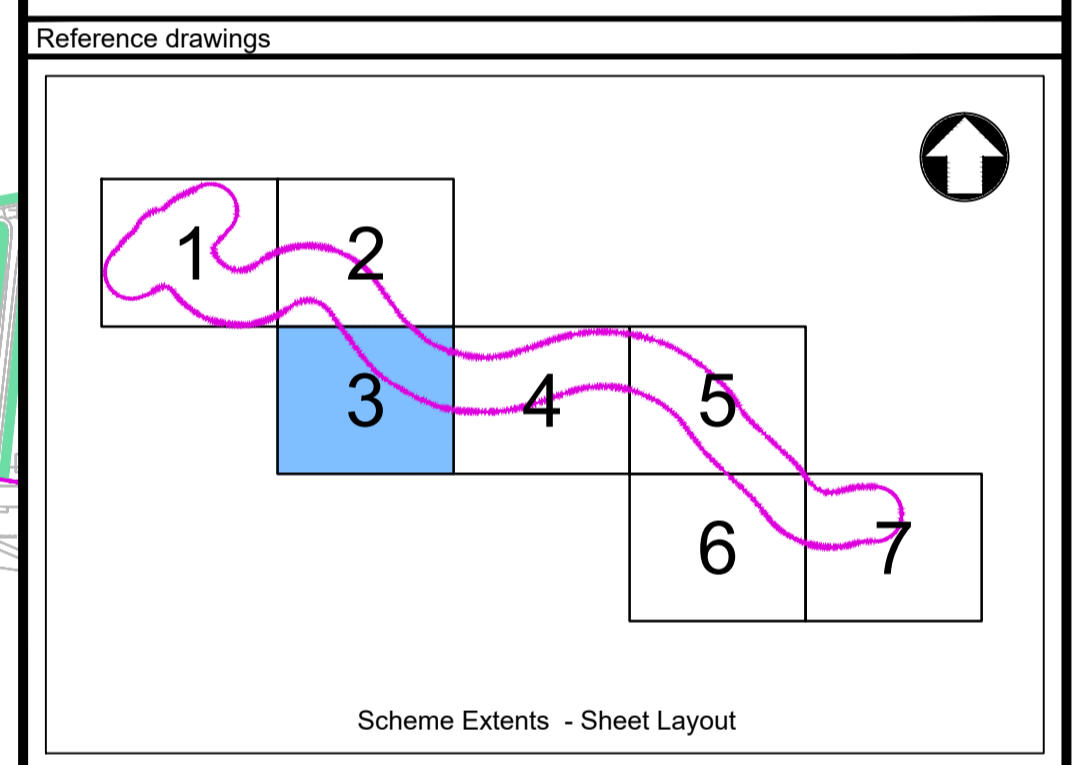




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- Notes**
- Broad-leaved semi-natural woodland
 - Broad-leaved plantation woodland
 - Arable
 - Mixed semi-natural woodland
 - Marshy grassland
 - Coniferous plantation woodland
 - Mixed plantation woodland
 - Tall ruderal
 - Introduced shrub
 - Dense continuous scrub
 - Scrub - scattered
 - Semi-improved natural grassland
 - Standing water

- Key to symbols**
- Running water
 - Poor semi improved grassland
 - Arable
 - Improved grassland
 - Scattered broad-leaved trees
 - Intact hedge - Native species poor
 - Defunct hedge - Native species poor
 - Hedge and tree - Native species poor
 - Fence
 - Intact hedge - Native species rich
 - Wall
 - Dry ditch
 - Option 1 (500m buffer)
 - Target note
 - Water course note
 - Areas not surveyed



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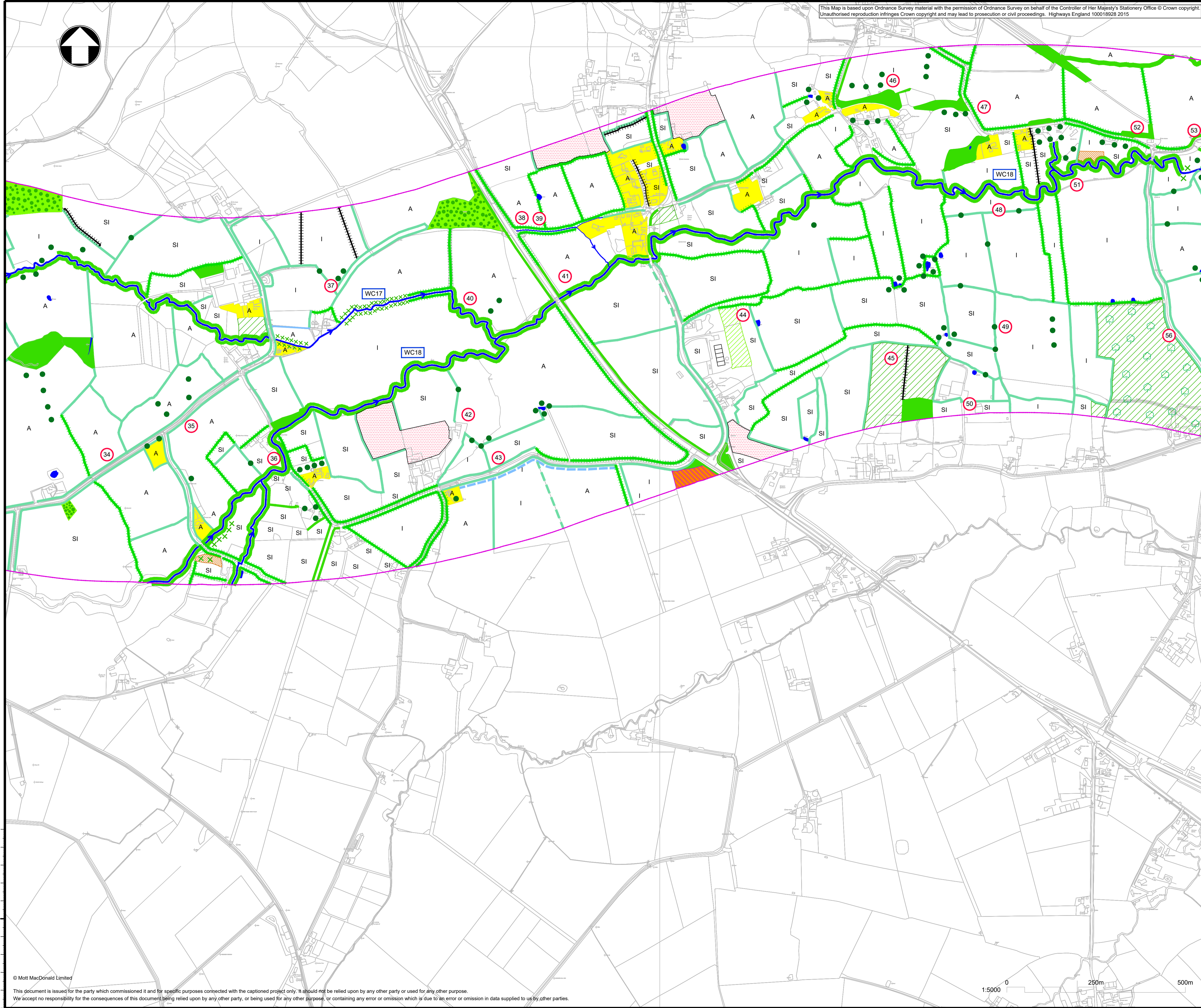
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**Phase 1 Habitat Survey
Option 1
(Sheet 3 of 7)**

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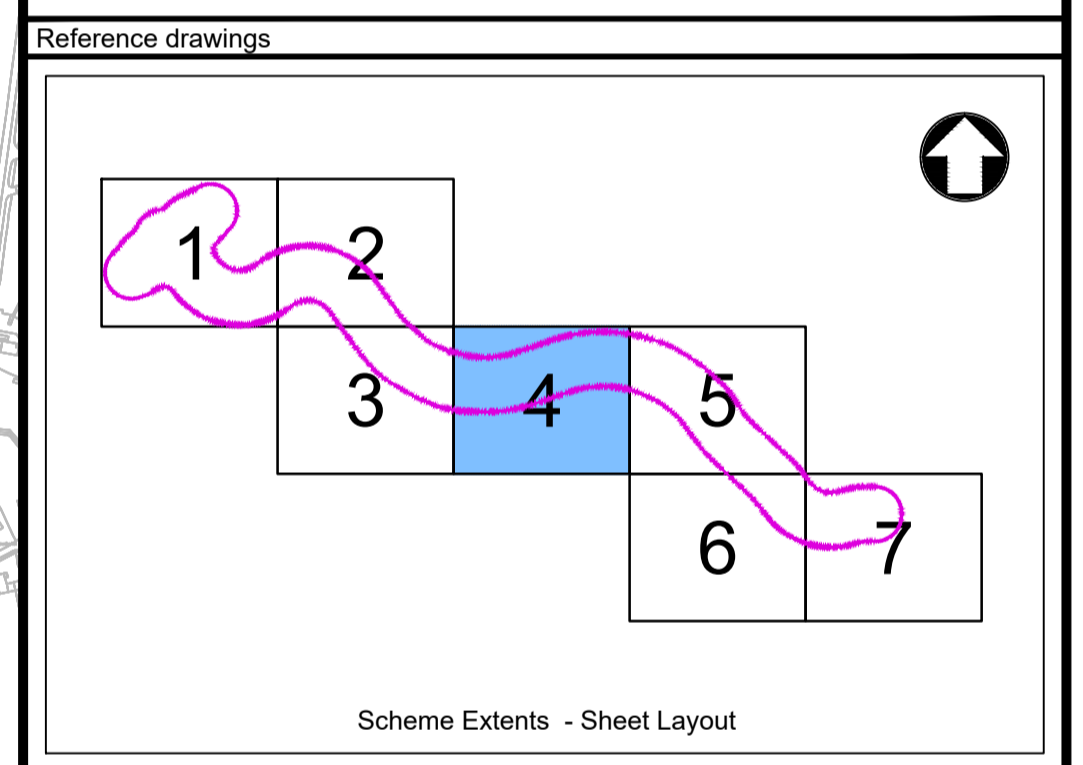
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- Notes**
- Broad-leaved semi-natural woodland
 - Broad-leaved plantation woodland
 - A Amenity grassland
 - Mixed semi-natural woodland
 - Marshy grassland
 - Coniferous plantation woodland
 - Mixed plantation woodland
 - Tall ruderal
 - Introduced shrub
 - Dense continuous scrub
 - Scrub - scattered
 - SI Semi-improved natural grassland
 - Standing water

- Key to symbols**
- Running water
 - SI Poor semi improved grassland
 - A Arable
 - I Improved grassland
 - Scattered broad-leaved trees
 - Intact hedge - Native species poor
 - Defunct hedge - Native species poor
 - Hedge and tree - Native species poor
 - Fence
 - Intact hedge - Native species rich
 - Wall
 - Dry ditch
 - Option 1 (500m buffer)
 - X Target note
 - WCXX Water course note
 - Areas not surveyed



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Project Title: **A358 Taunton to Southfields**

Drawing Title: **Phase 1 Habitat Survey
Option 1
(Sheet 4 of 7)**

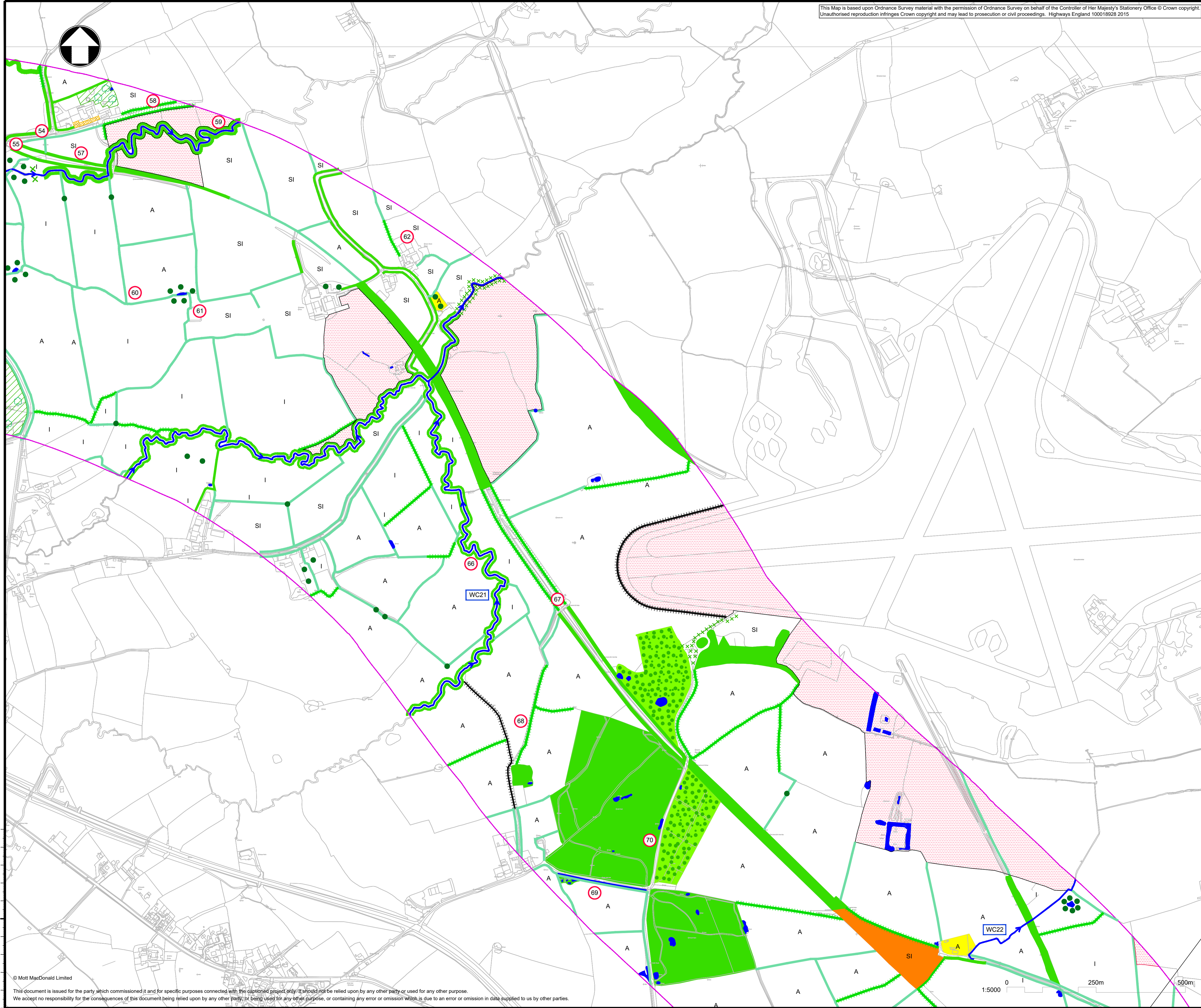
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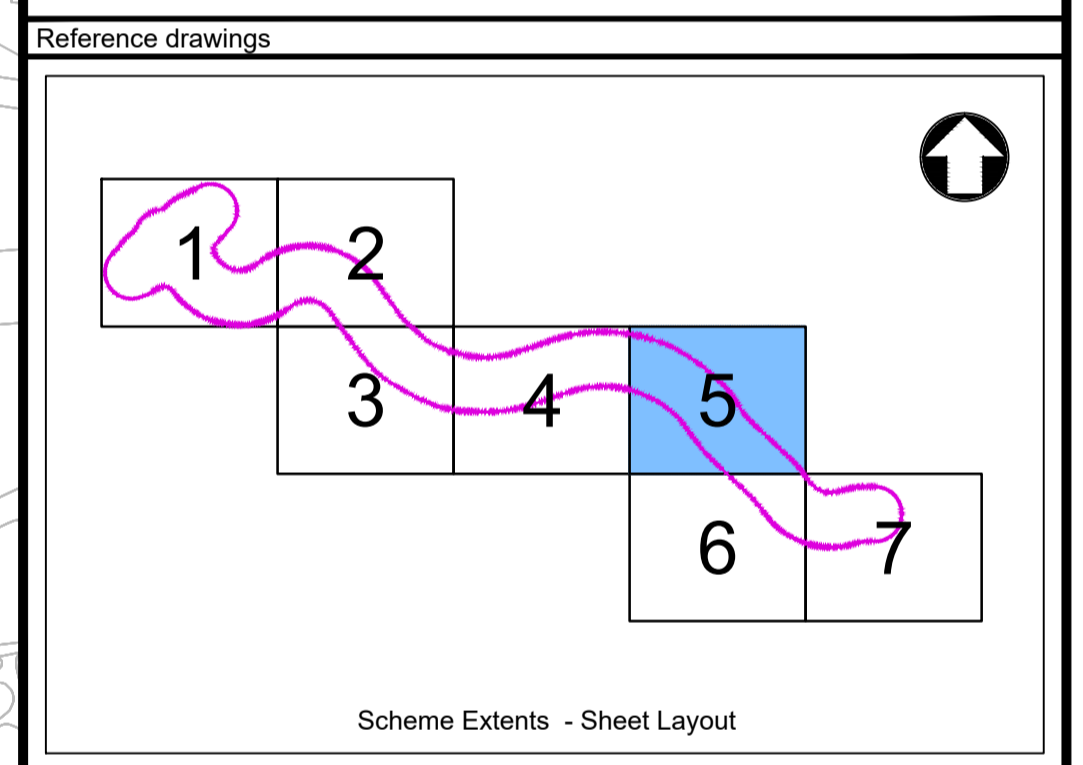


Notes

- Broad-leaved semi-natural woodland
- Broad-leaved plantation woodland
- A Arable
- Mixed semi-natural woodland
- Marshy grassland
- Coniferous plantation woodland
- Mixed plantation woodland
- Tall ruderal
- Introduced shrub
- Dense continuous scrub
- Scrub - scattered
- SI Semi-improved natural grassland
- Standing water

Key to symbols

- Running water
- SI Poor semi improved grassland
- A Arable
- I Improved grassland
- Scattered broad-leaved trees
- Intact hedge - Native species poor
- Defunct hedge - Native species poor
- Hedge and tree - Native species poor
- Fence
- Intact hedge - Native species rich
- Wall
- Dry ditch
- Option 1 (500m buffer)
- X Target note
- WCXX Water course note
- Areas not surveyed



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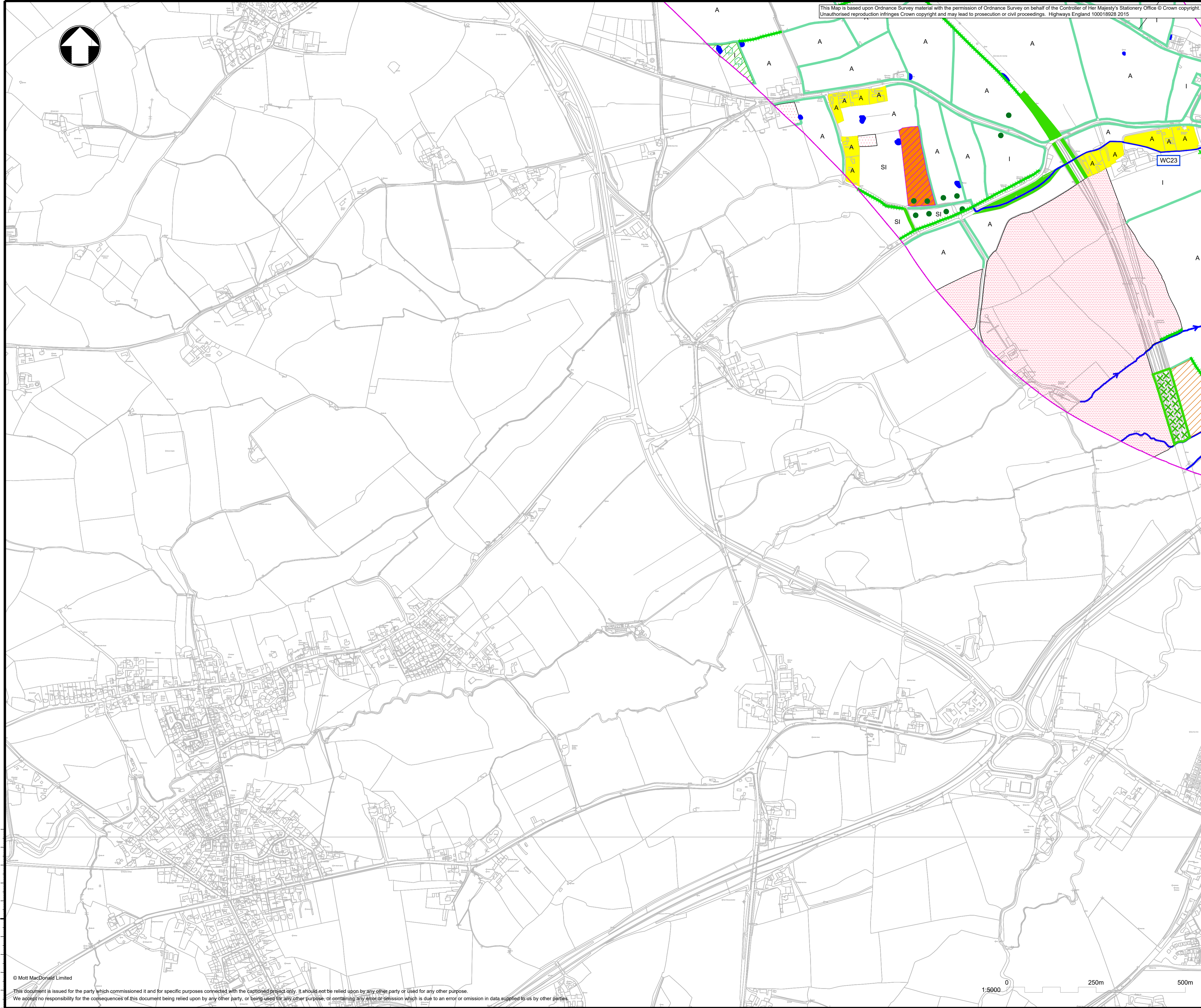
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**Phase 1 Habitat Survey
Option 1
(Sheet 5 of 7)**

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Original Size	Date	Date	Date	Date
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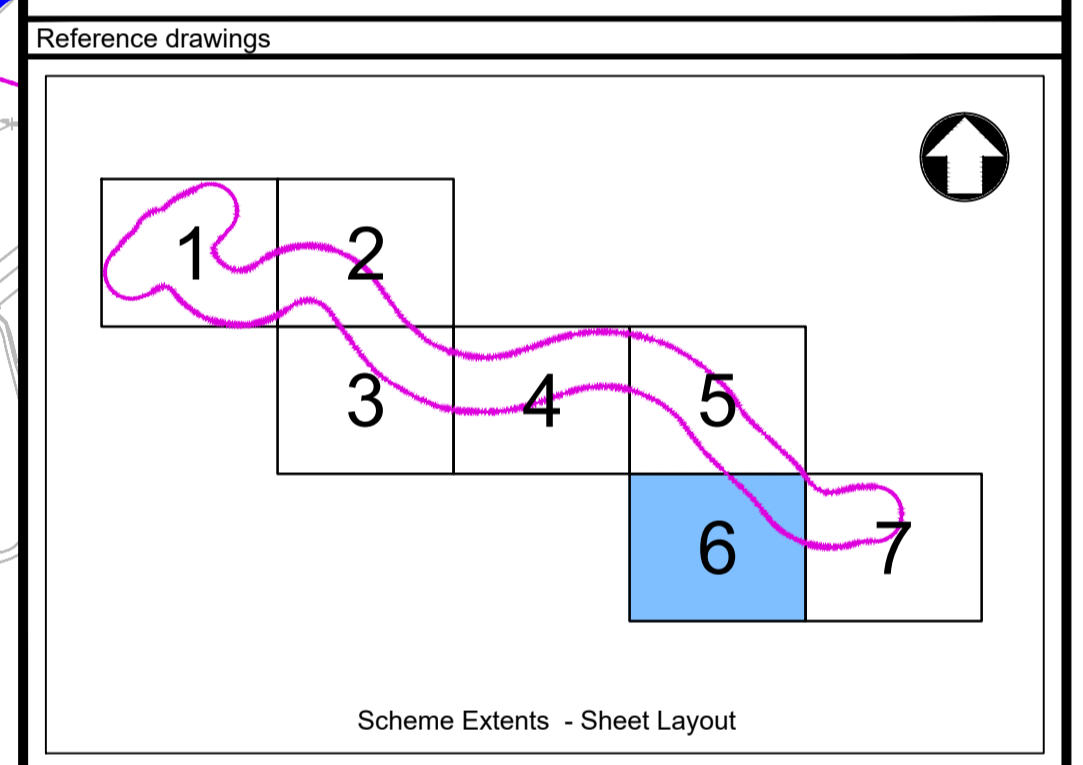


Notes

	Broad-leaved semi-natural woodland
	Broad-leaved plantation woodland
	Amenty grassland
	Mixed semi-natural woodland
	Marshy grassland
	Coniferous plantation woodland
	Mixed plantation woodland
	Tall ruderal
	Introduced shrub
	Dense continuous scrub
	Scrub - scattered
	Semi-improved natural grassland
	Standing water

Key to symbols

	Running water		Target note
	Poor semi improved grassland		Water course note
	Arable		Areas not surveyed
	Improved grassland		
	Scattered broad-leaved trees		
	Intact hedge - Native species poor		
	Defunct hedge - Native species poor		
	Hedge and tree - Native species poor		
	Fence		
	Intact hedge - Native species rich		
	Wall		
	Dry ditch		
	Option 1 (500m buffer)		



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**Phase 1 Habitat Survey
Option 1
(Sheet 6 of 7)**

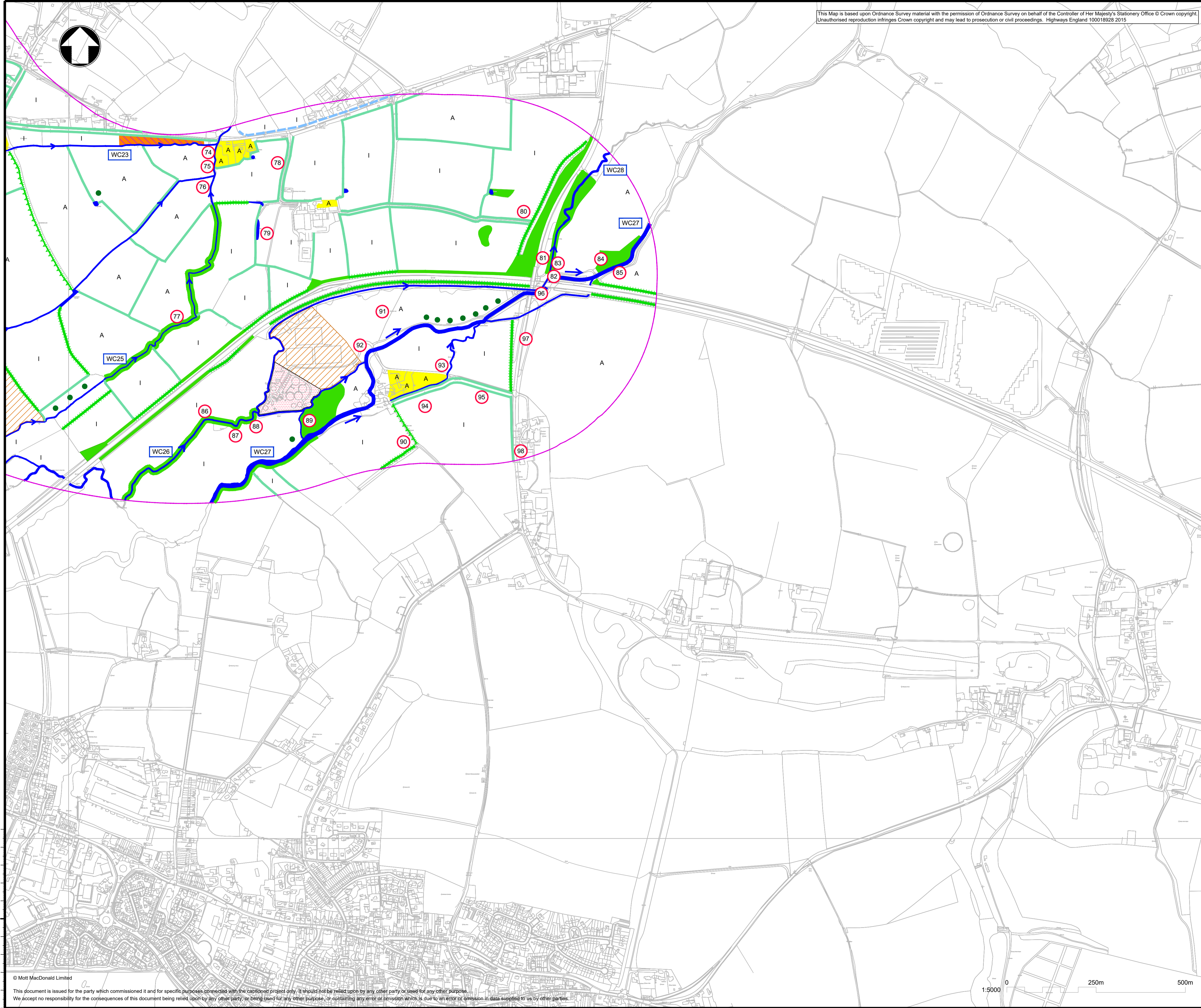
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1:5000 0 250m 500m

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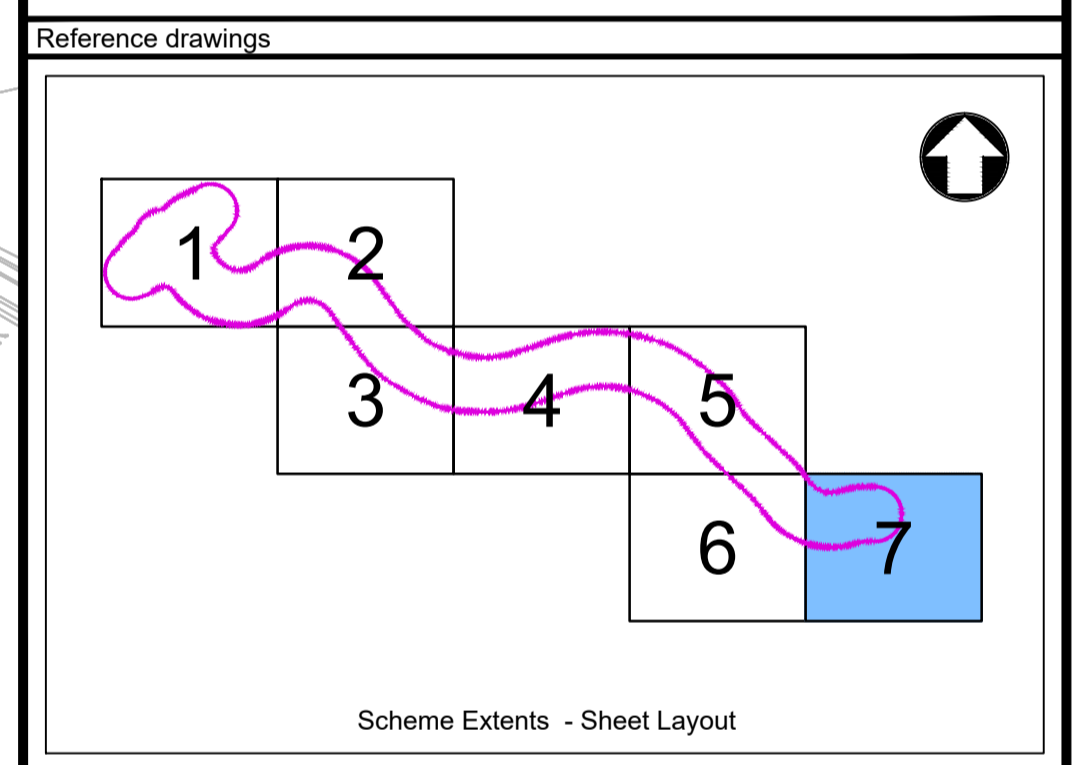


Notes

	Broad-leaved semi-natural woodland
	Broad-leaved plantation woodland
	Amenity grassland
	Mixed semi-natural woodland
	Marshy grassland
	Coniferous plantation woodland
	Mixed plantation woodland
	Tall ruderal
	Introduced shrub
	Dense continuous scrub
	Scrub - scattered
	Semi-improved natural grassland
	Standing water

Key to symbols

	Running water		Target note
	Poor semi improved grassland		Water course note
	Arable		Areas not surveyed
	Improved grassland		
	Scattered broad-leaved trees		
	Intact hedge - Native species poor		
	Defunct hedge - Native species poor		
	Hedge and tree - Native species poor		
	Fence		
	Intact hedge - Native species rich		
	Wall		
	Dry ditch		
	Option 1 (500m buffer)		



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**Phase 1 Habitat Survey
Option 1
(Sheet 7 of 7)**

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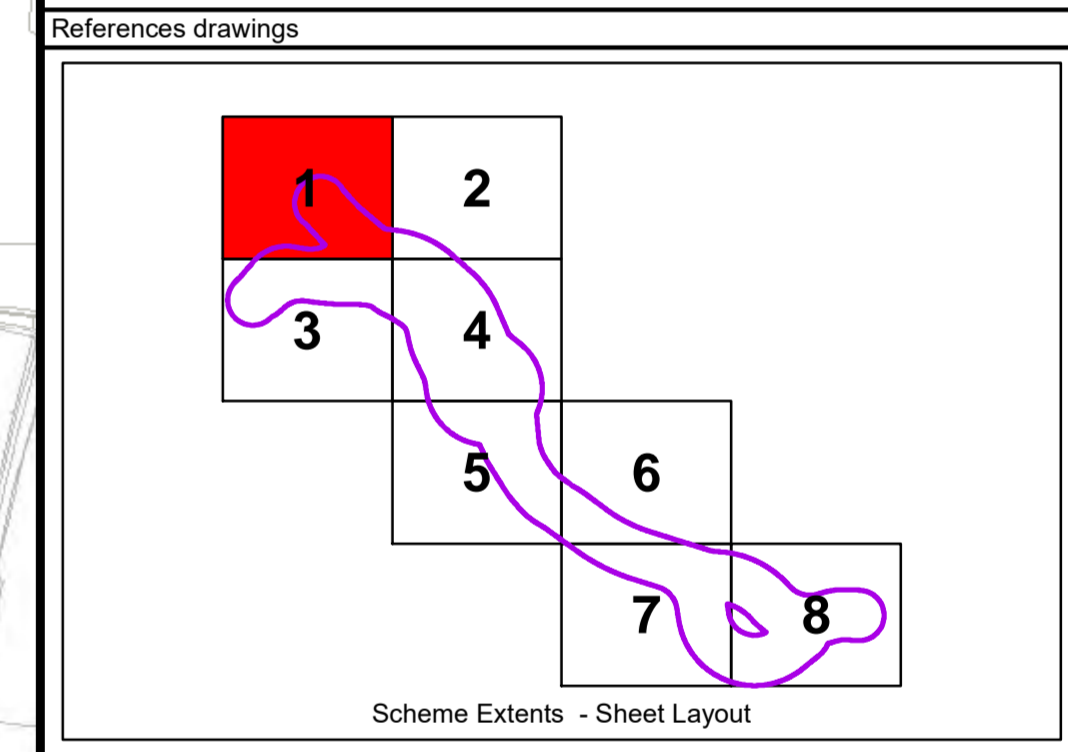
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Notes

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
500m Buffer	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



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**Phase 1 Habitat Map  
Options 13, 2/2D, 8A/8B  
Sheet 1 of 8**

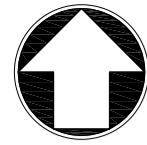
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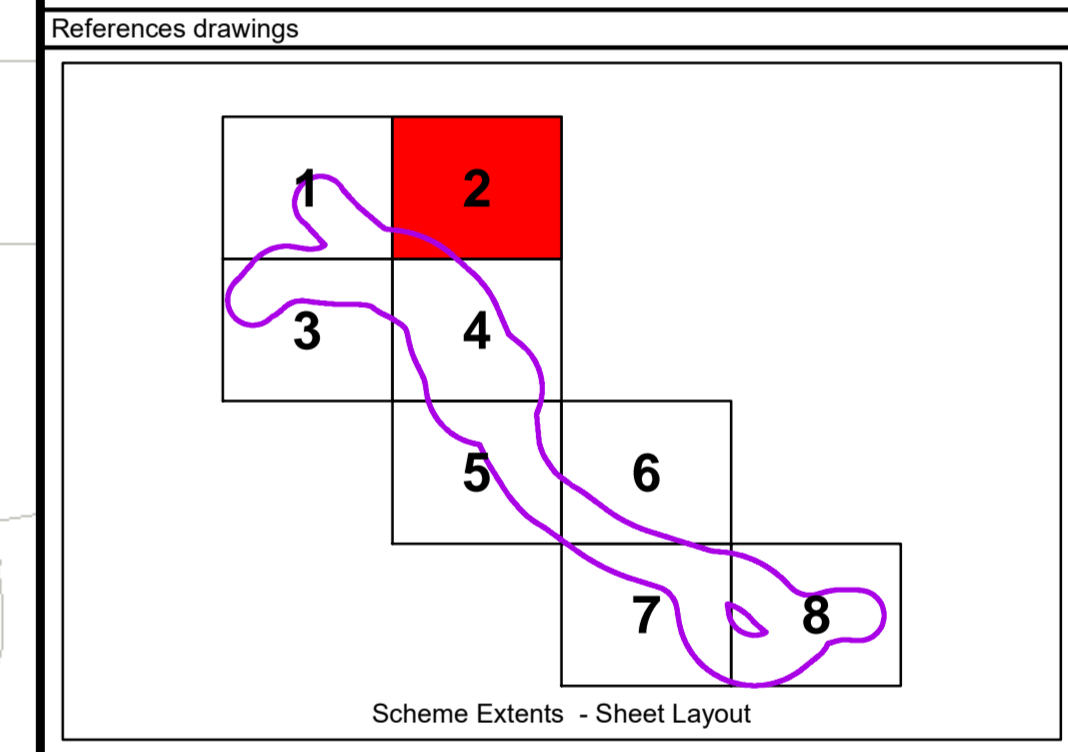
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Notes

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
		+++++	Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



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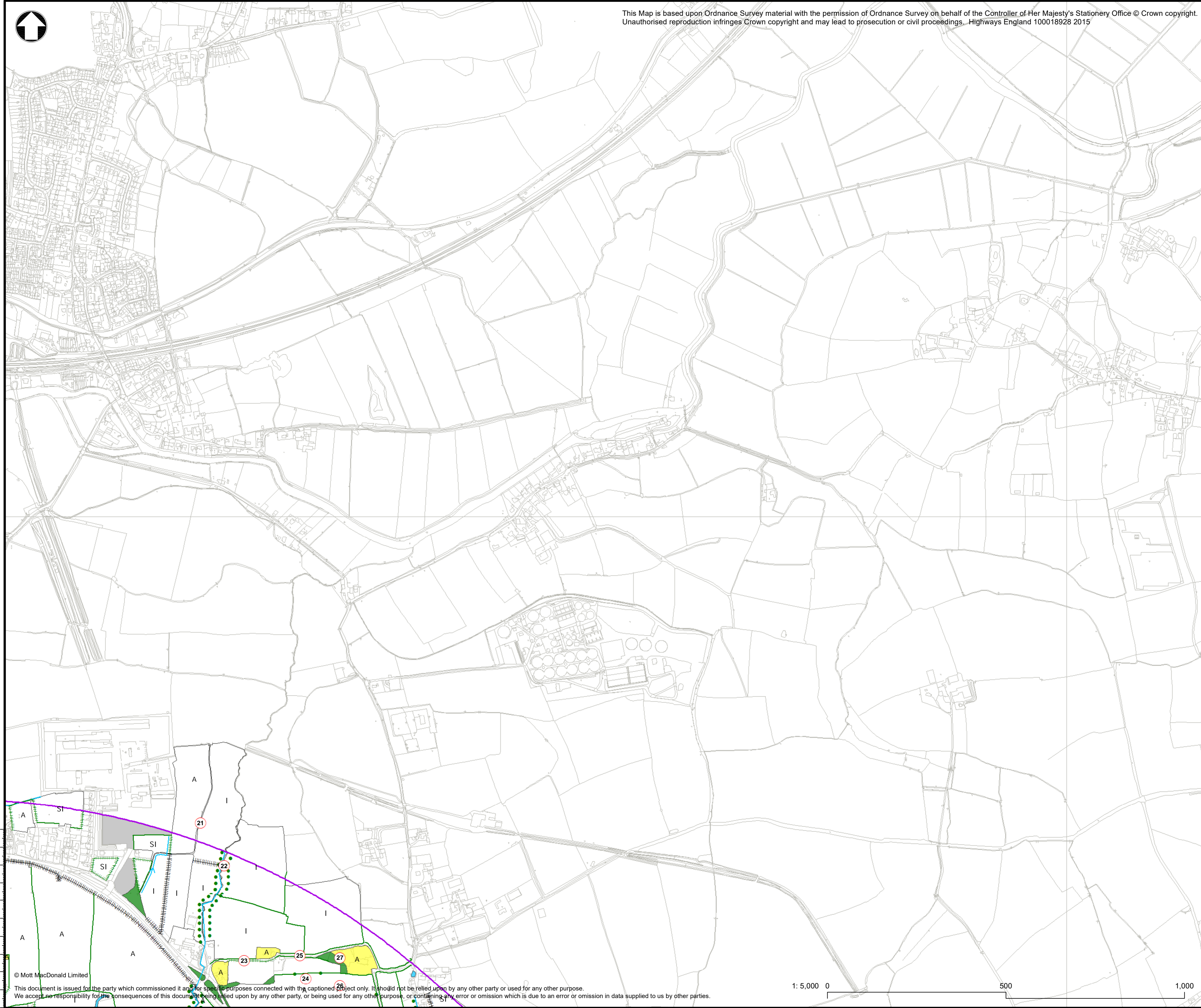
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Project Title: A358 Taunton to Southfields

Drawing Title: Phase 1 Habitat Map
Options 13, 2/2D, 8A/8B
Sheet 2 of 8

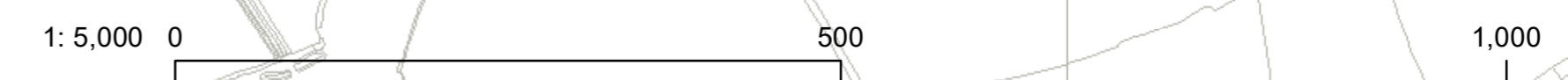
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Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016

Drawing Number	HE PIN	Originator	Volume	Project Ref. No.
000	HE551508	MMGJV	EGN	360467
000	- DR - EN -	0014		Revision
				P1



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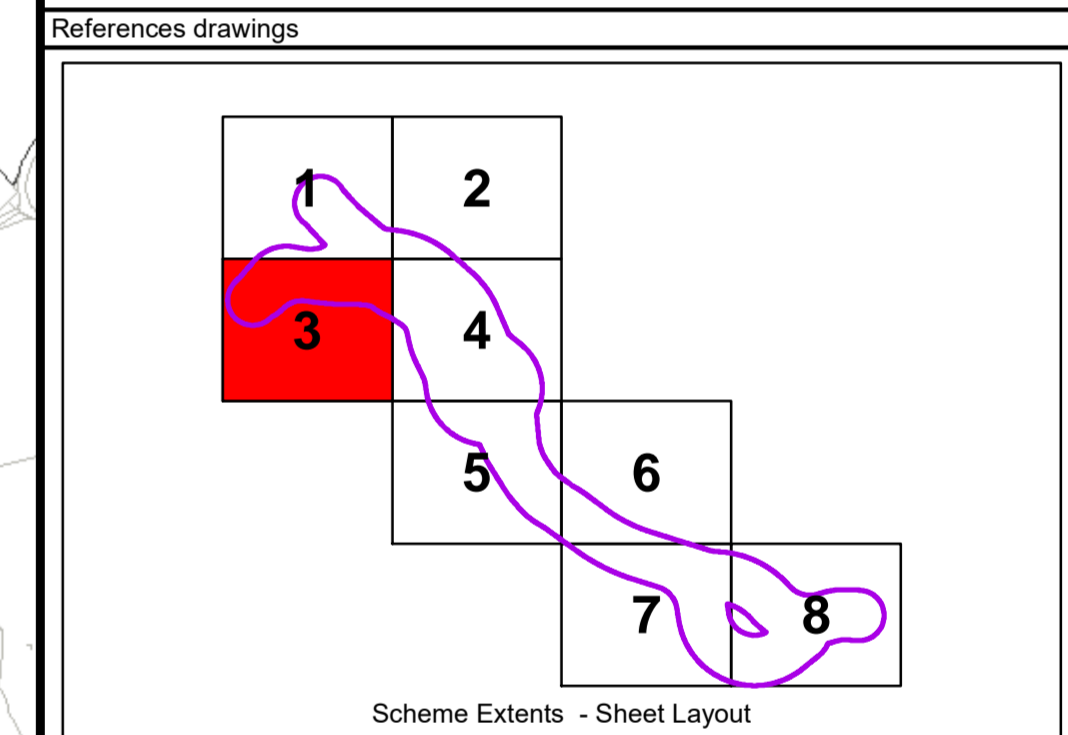
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Notes

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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Drawing Status: Initial non-contractual code  
Sustainability: S0

Project Title: A358 Taunton to Southfields

Drawing Title: Phase 1 Habitat Map  
Options 13, 2/2D, 8A/8B  
Sheet 3 of 8

Scale: 1:5,000	Designed: A J Evans	Drawn: J Wu	Checked: A J Evans	Approved: N Engerran
Original Size: A1	Date: JUN 2016	Date: JUN 2016	Date: JUN 2016	Date: JUN 2016

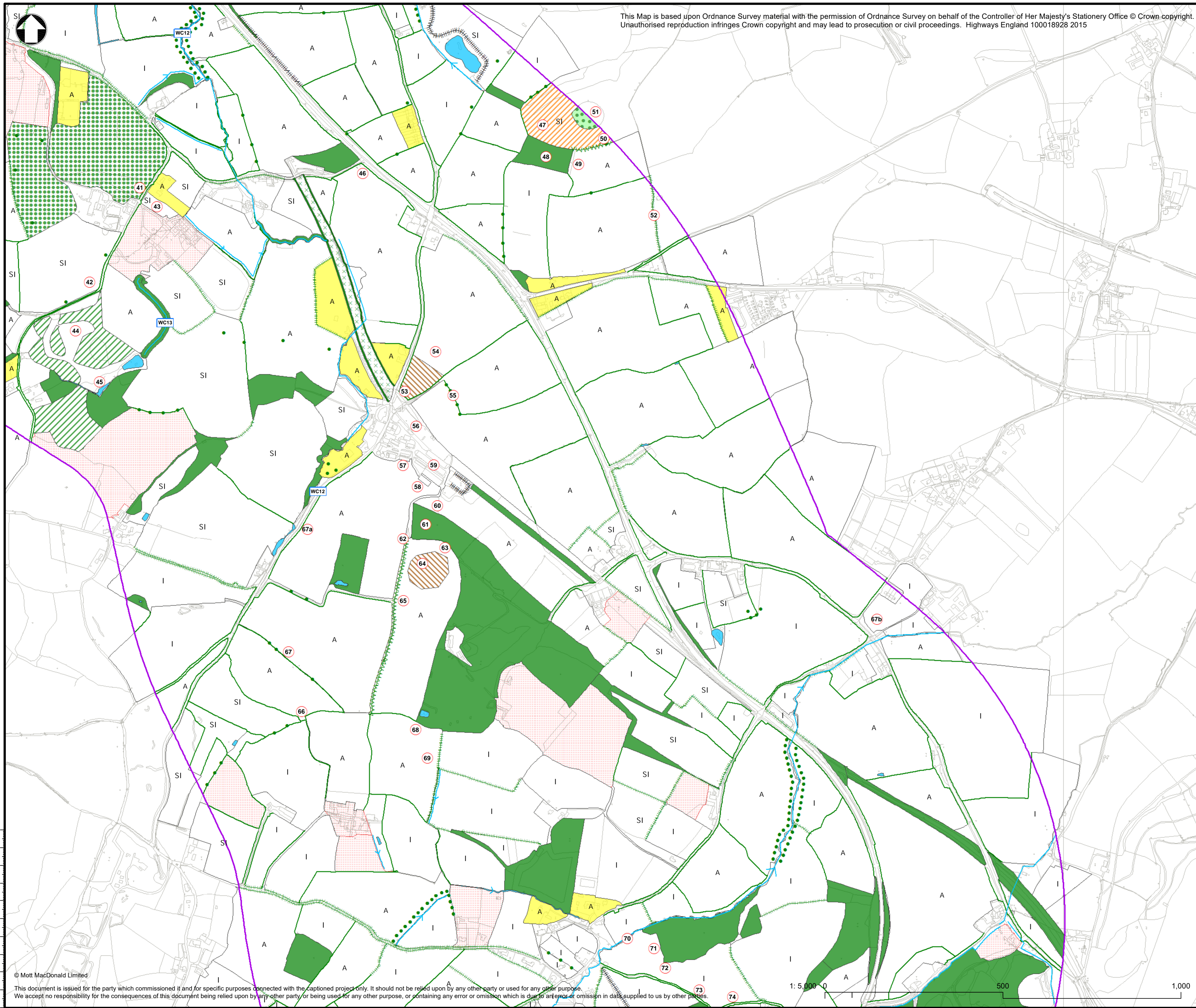
Drawing Number: HE PIN 000	Originator: MMGJV	Volume: EGN -	Project Ref. No.: 360467
000 - DR - EN - 0015			Revision: P1
Location	Type	Role	Number

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1: 5,000 0 500 1,000



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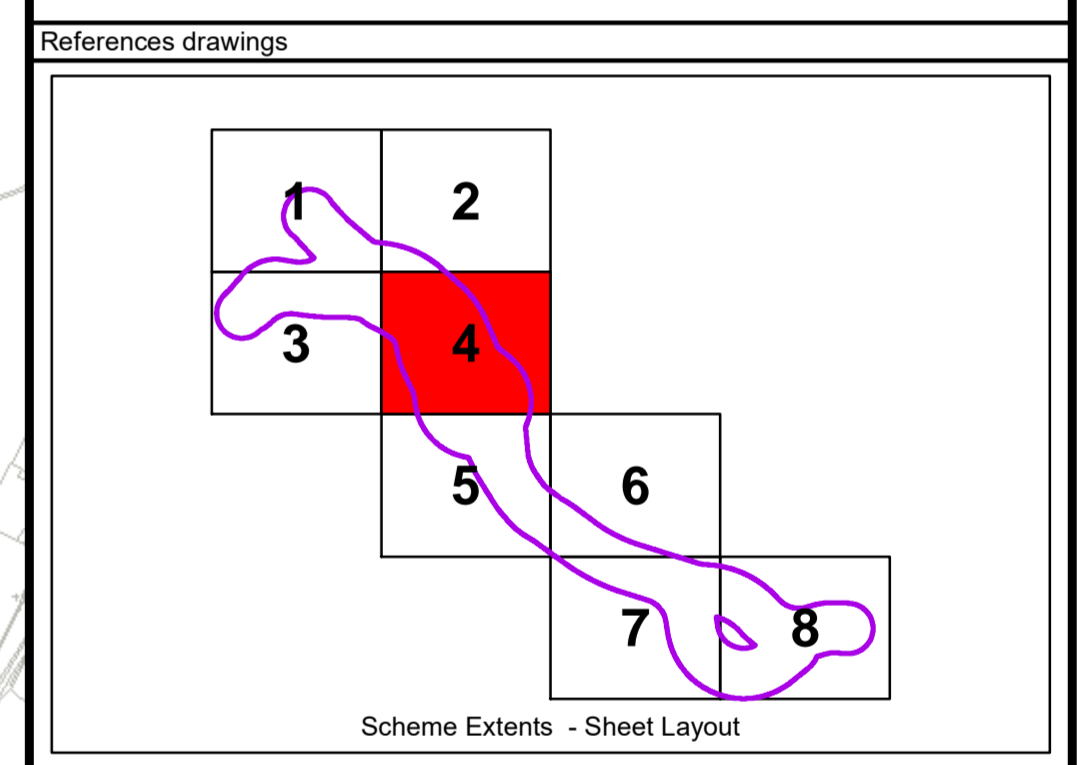


**Notes**

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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Drawing Status	Initial non-contractual code	Suitability	S0
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Project Title
A358 Taunton to Southfields

Drawing Title
**Phase 1 Habitat Map
Options 13, 2/2D, 8A/8B
Sheet 4 of 8**

Scale	1:5,000	Designed	A J Evans	Drawn	J Wu	Checked	A J Evans	Approved	N Engerran
Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016
Drawing Number	HE PIN	Originator	MMGJV	Volume	EGN	Project Ref. No.	360467		
000						Revision	P1		



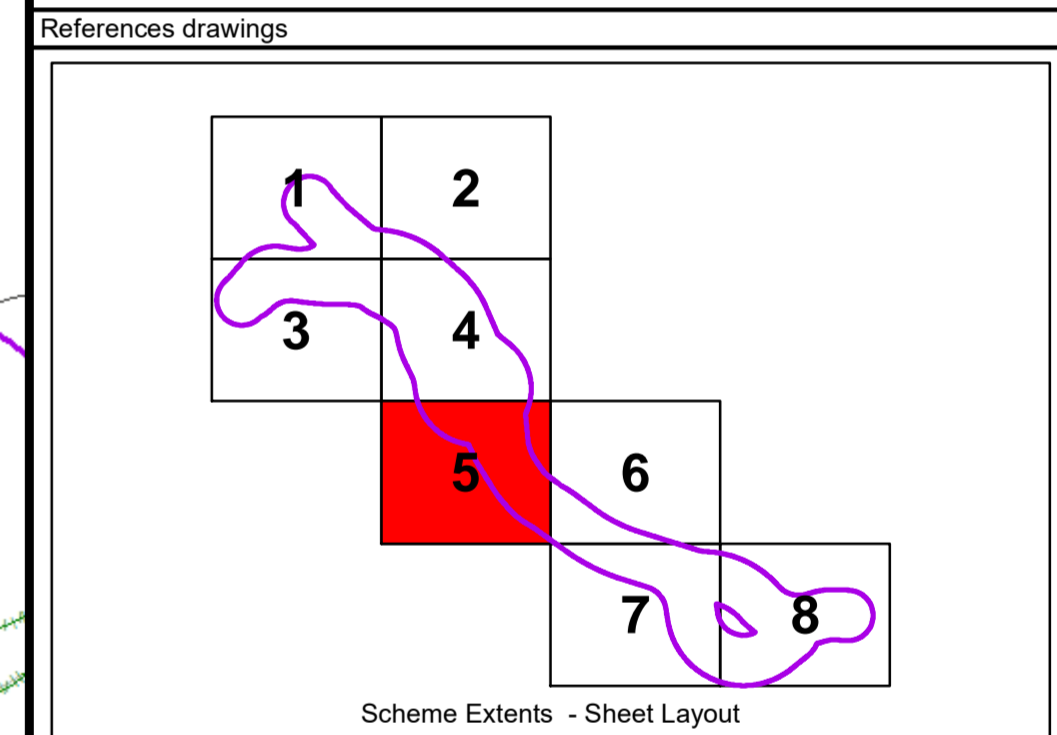
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Notes

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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Drawing Status	Initial non-contractual code	Suitability	S0
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Project Title  
**A358 Taunton to Southfields**

Drawing Title  
**Phase 1 Habitat Map  
Options 13, 2/2D, 8A/8B  
Sheet 5 of 8**

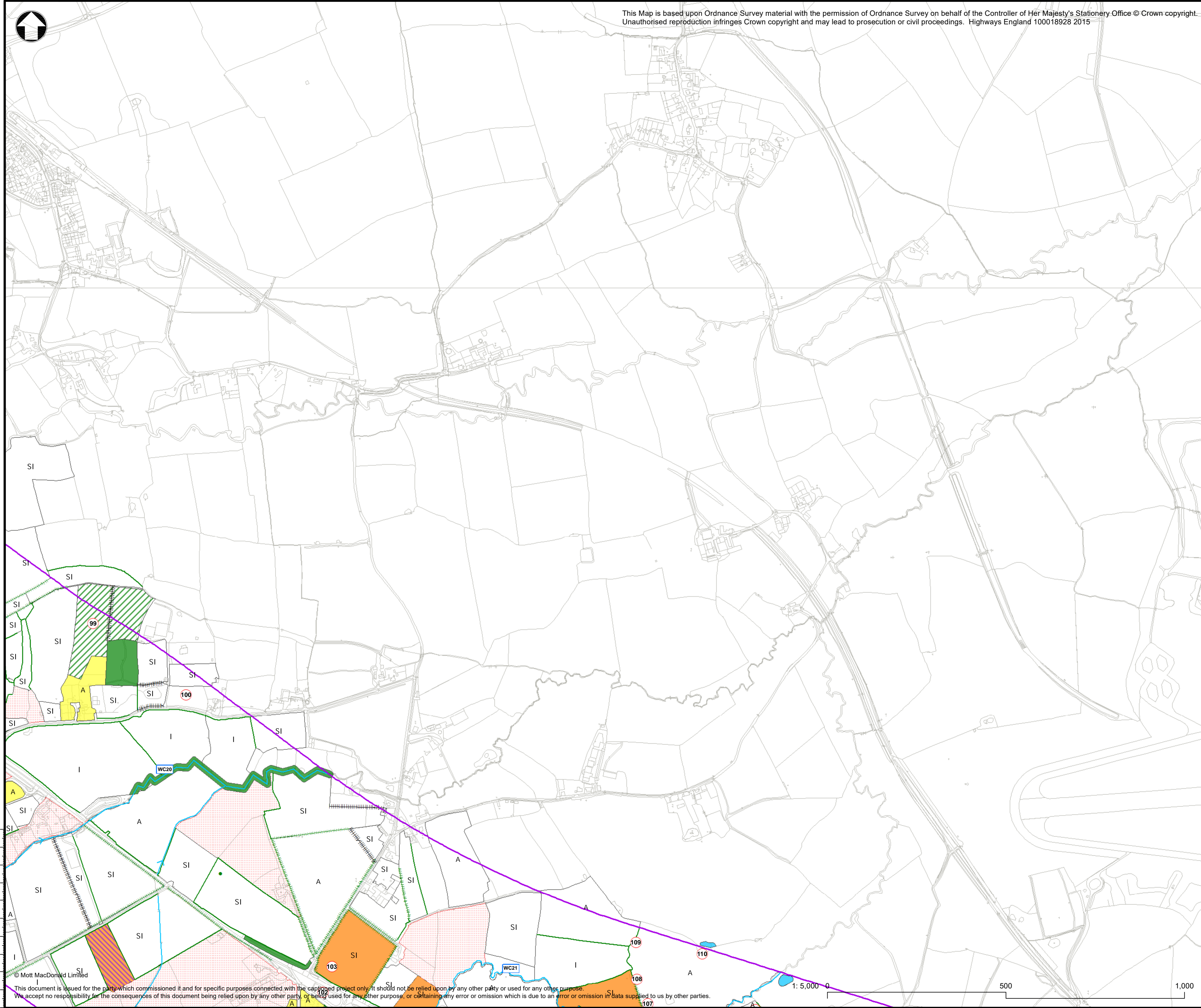
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Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016

Drawing Number	HE PIN	Originator	Volume	Project Ref. No.
000	HE551508 -	MMGJV -	EGN -	360467
000	-	DR -	EN -	0017
Location	Type	Role	Number	Revision
				P1

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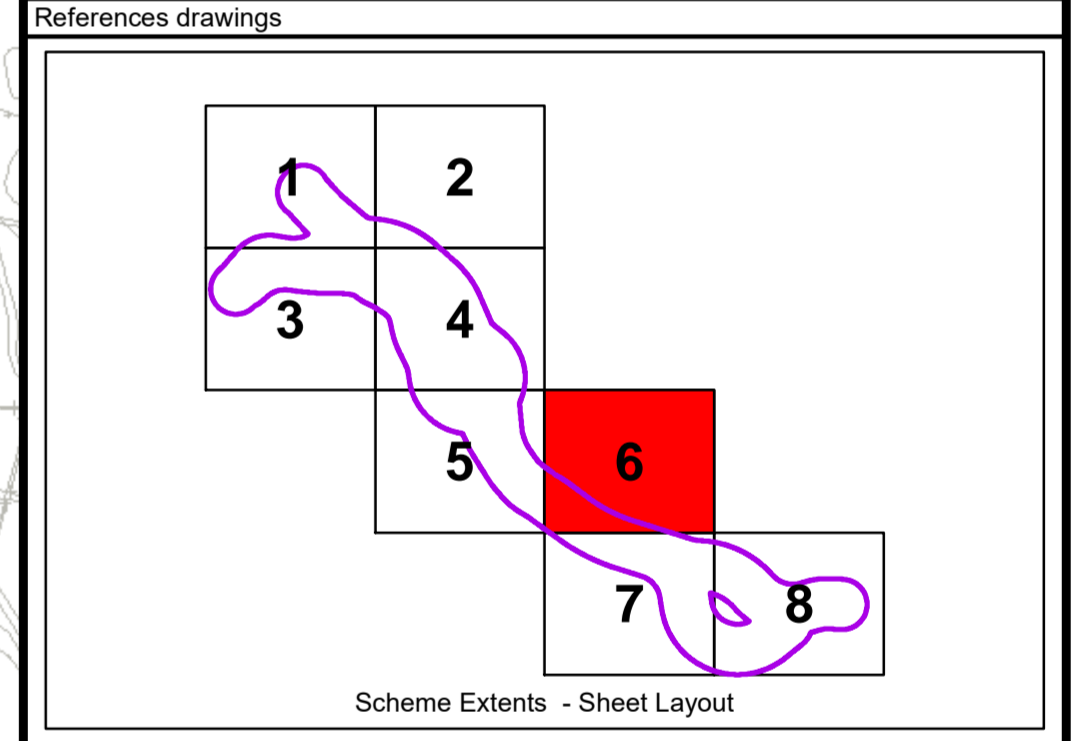


**Notes**

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
		+++++	Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
	Scrub - dense/continuous		Other tall herb and fern - ruderal
	Scrub - scattered		Standing water
	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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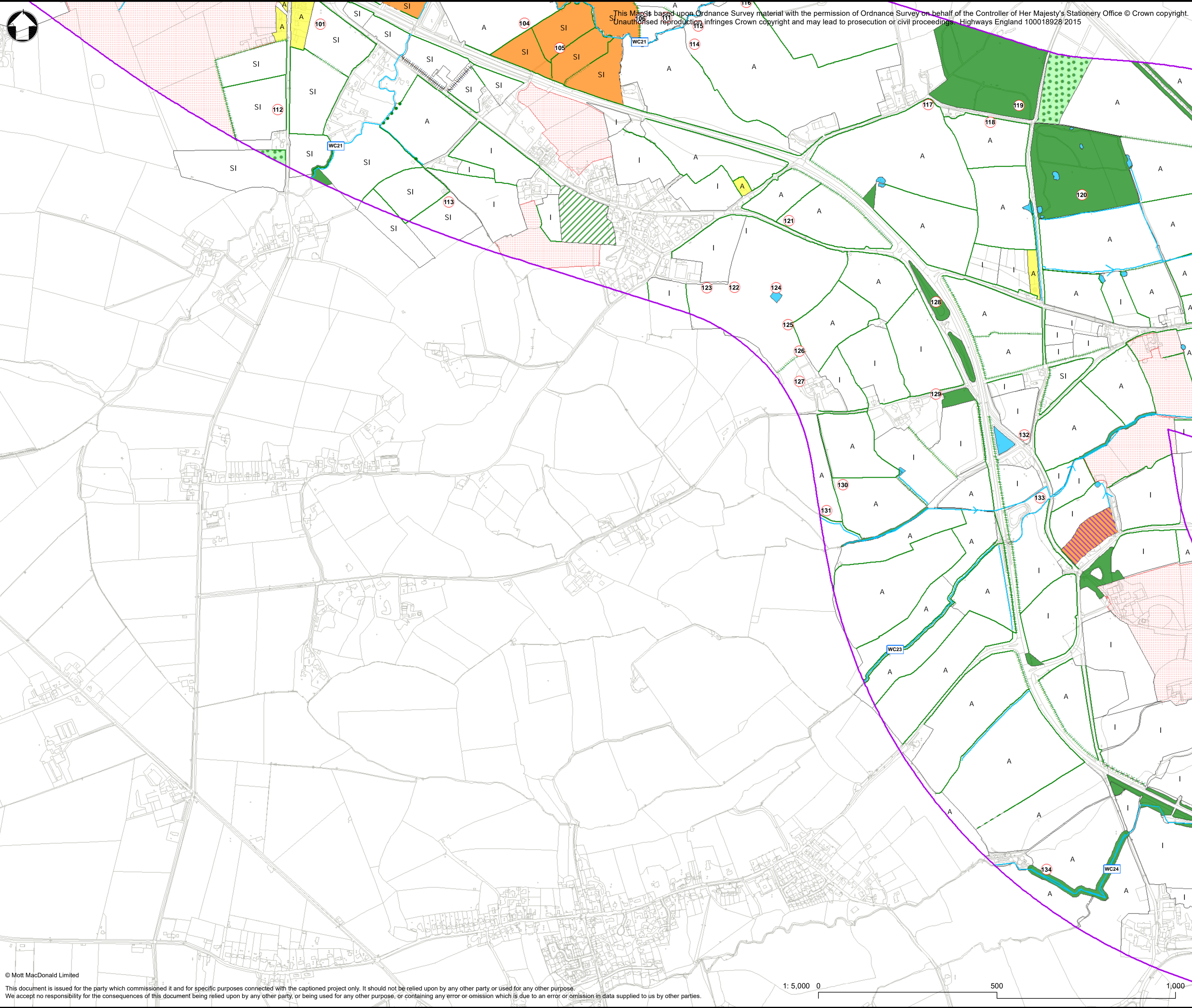
Drawing Status	Initial non-contractual code	Suitability	S0
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Project Title
A358 Taunton to Southfields

Drawing Title
**Phase 1 Habitat Map
Options 13, 2/2D, 8A/8B
Sheet 6 of 8**

Scale	1:5,000	Designed	A J Evans	Drawn	J Wu	Checked	A J Evans	Approved	N Engerran
Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016

Drawing Number	HE PIN	Originator	Volume	Project Ref. No.
HE551508 -	MMGJV	EGN -	000	360467
000	-	DR - EN -	0018	Revision
				P1



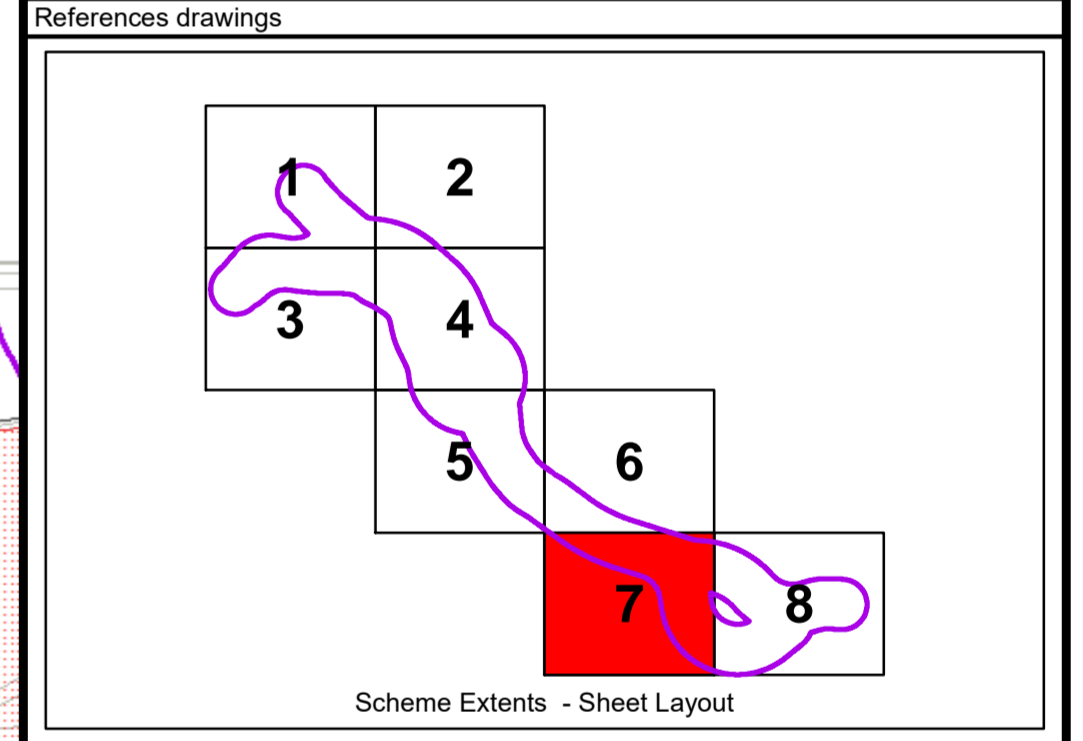
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Notes

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
	Mixed woodland - semi-natural		Poor semi-improved grassland
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	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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Drawing Status	Initial non-contractual code	Suitability	S0
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Project Title  
**A358 Taunton to Southfields**

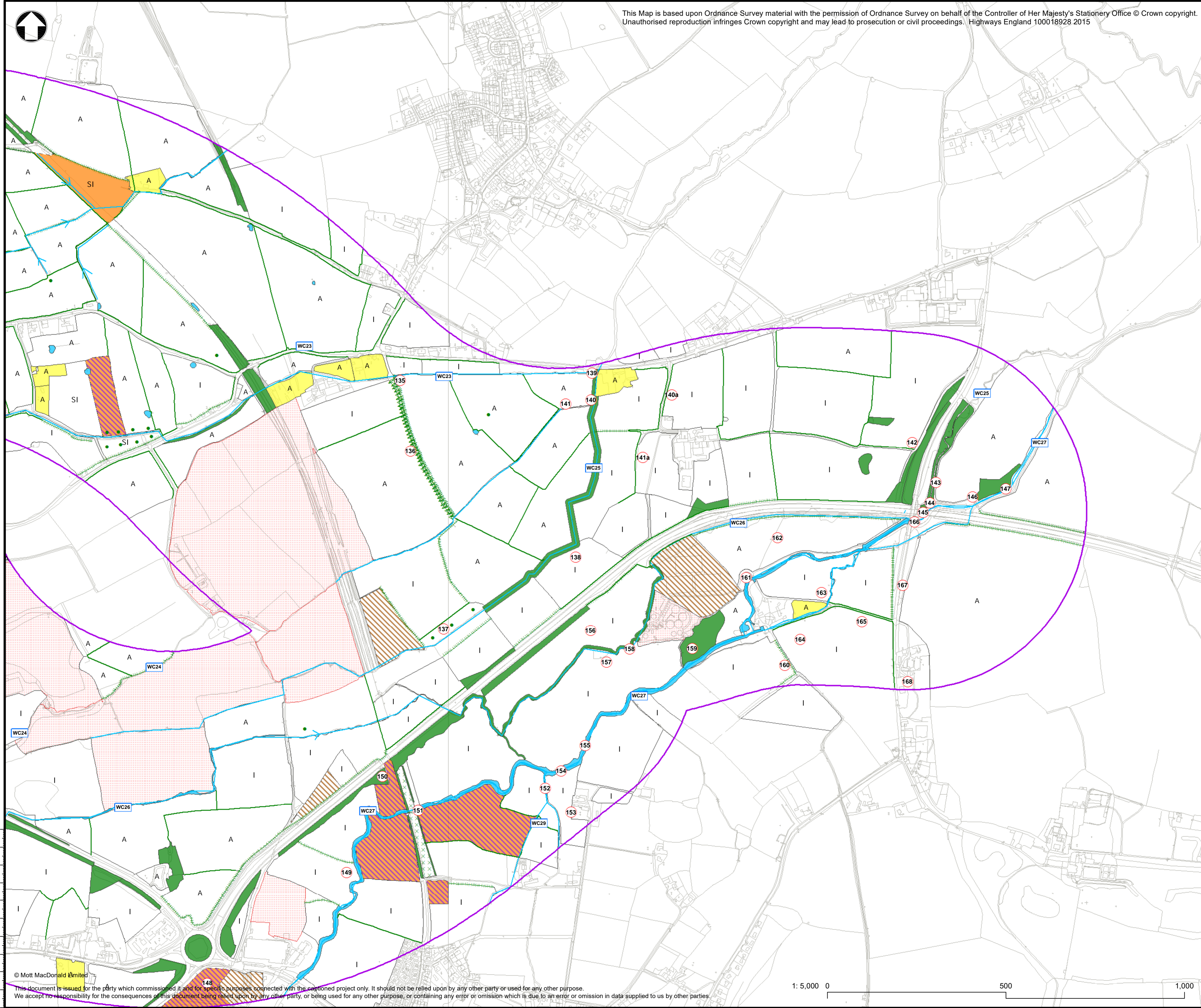
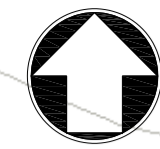
Drawing Title  
**Phase 1 Habitat Map  
Options 13, 2/2D, 8A/8B  
Sheet 7 of 8**

Scale	1:5,000	Designed	A J Evans	Drawn	J Wu	Checked	A J Evans	Approved	N Engerran
Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016

Drawing Number	HE PIN	Originator	Volume	Project Ref. No.
000	HE551508	MMGJV	EGN	360467
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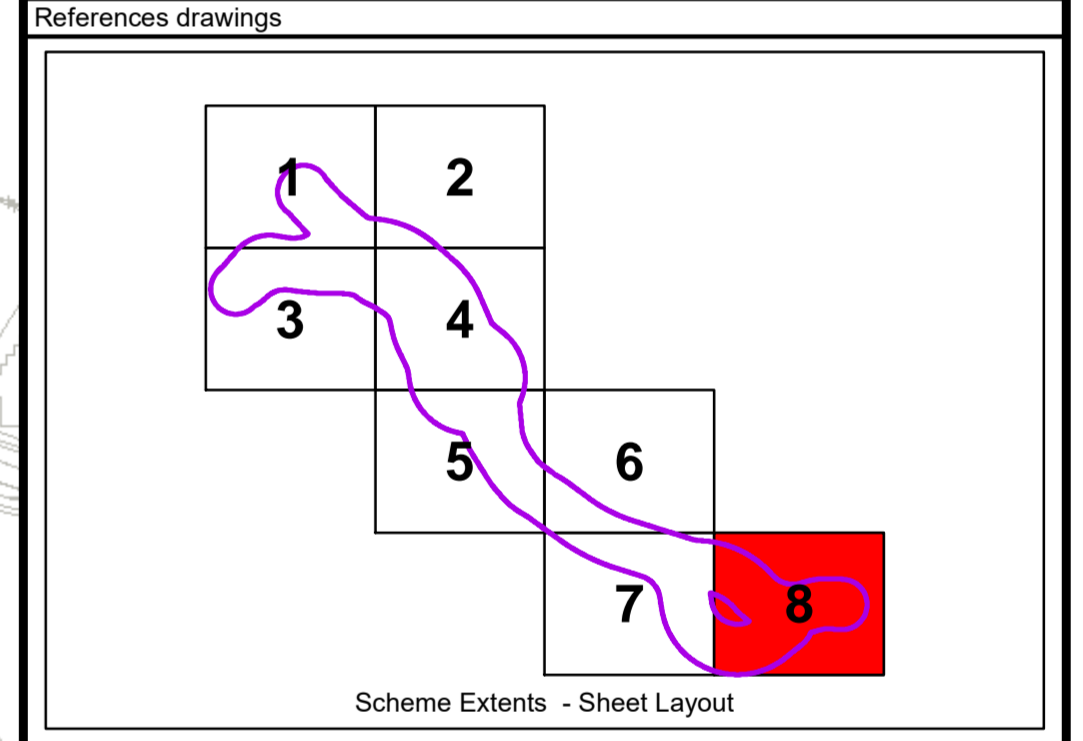


**Notes**

WC	Watercourse	XXXX	Scrub - scattered
1	Target note	●●●●	Broadleaved parkland/scattered trees
—	500m Buffer	—	Running water
		~~~~~	Intact hedge - native species-rich
		—	Intact hedge - species-poor
		- - -	Defunct hedge - species-poor
		~~~~~	Hedge with trees - native species-rich
		~~~~~	Hedge with trees - species-poor
			Fence
		- - -	Dry ditch

Key to symbols

	Broadleaved woodland - semi-natural		Improved grassland
	Broadleaved woodland - plantation		Marsh/marshy grassland
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	Broadleaved parkland/scattered trees		Cultivated/disturbed land - arable
	Acid grassland - semi-improved		Cultivated/disturbed land - amenity grassland
	Neutral grassland - semi-improved		Hardstanding
			Not surveyed



P1	JUN 2016	DRAWING CREATED	JW	AJE	NE
REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D

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Drawing Status	Initial non-contractual code	Suitability	S0
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Project Title
A358 Taunton to Southfields

Drawing Title
**Phase 1 Habitat Map
 Options 13, 2/2D, 8A/8B
 Sheet 8 of 8**

Scale	1:5,000	Designed	A J Evans	Drawn	J Wu	Checked	A J Evans	Approved	N Engerran
Original Size	A1	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016	Date	JUN 2016

Drawing Number	HE PIN	Originator	Volume	Project Ref. No.
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000	-	DR -	EN -	0020
Location		Type	Role	Number
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