

M5 Junction 10 Improvements Scheme

Environmental Statement Appendix 7.9 Winter Bird surveys TR010063 – APP 6.15

Regulation 5 (2) (a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

M5 Junction 10 Improvements Scheme

Development Consent Order 202[x]

6.15 Environmental Statement:

Appendix 7.9 Winter Bird surveys

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1. Introduction

1.1. Terms of Reference

- 1.1.1. Atkins, a member of the SNC Lavalin Group was commissioned by Gloucestershire County Council (GCC) to undertake wintering and passage bird surveys to inform the Environmental Statement (ES) for the M5 Junction 10 Improvements Scheme (hereafter referred to as ‘the Scheme’).
- 1.1.2. The purpose of the wintering and passage bird surveys was to determine the species and numbers of wintering and passage birds present within the Scheme; provide recommendations to enable compliance with legislation and policy; and, if necessary, identify the need for avoidance, mitigation, compensation, or enhancement measures.
- 1.1.3. This Technical Appendix summarises the results of the wintering and passage bird surveys undertaken, including the methods used, results of the field surveys, and provides an evaluation of the nature conservation value of wintering and passage birds within the survey area.
- 1.1.4. This report provides factual information to support the ES, which will accompany the planning application for the Scheme.

1.2. Legislative and Conservation Concern Status

Legislation

- 1.2.1. Relevant legislation in relation to breeding birds is provided in Table 1-1 below.

Table 1-1 - Summary of Relevant Legislation

Legislation	Offences	Licensing Procedures and Guidance
Wildlife and Countryside Act 1981 (as amended)	Intentionally kill, injure, or take any wild bird.	General licences are available in respect of ‘pest species’ but only for certain very specific purposes e.g. public health, public safety, air safety. Guidance documents: NE & DEFRA Standing Advice for protected species 2022.
The Birds Directive 79/409/EEC Annex 1	N/A	Bird species listed under Annex 1 of the Birds Directive 79/409/EEC are considered endangered or important migratory species in Europe. These species have been protected by the establishment of a coherent network of Special Protection Areas (SPAs).
Conservation of Habitats and Species Regulations 2017 (as amended)	N/A	Regulation 8 of the Conservation of Habitats and Species Regulations 2017 (as amended) defines SPAs as European Sites. SPAs are designated based on populations of Annex 1 species that they support, and thus comprise the most suitable habitats to ensure the survival and/or reproduction of these species in their area of distribution. Regulation 9 places a duty on public authorities to have regard to the requirements of the Birds Directive in the exercise of their functions. Regulation 10 places a duty on public authorities to take steps in the exercise of their functions to contribute to the achievement of the preservation, maintenance and re-establishment of a sufficient

Legislation	Offences	Licensing Procedures and Guidance
		diversity and area of habitat for wild birds in the United Kingdom.
Ramsar	N/A	Ramsar sites are wetlands of international importance designated under the Ramsar Convention. The majority of UKs sites are established for internationally important populations of non-breeding waterfowl though some sites have no qualifying ornithological interest.

Conservation Concern Status

- 1.2.2. The UK's leading bird conservation organisations have worked together on the latest review of the status of the birds that occur regularly in the UK (Stanbury et al., 2021¹). Bird species have been assessed against a set of objective criteria to place each on one of three lists – green, amber, and red – indicating an increasing level of conservation concern. The criteria used in assessments are intended to ensure that Birds of Conservation Concern (BoCC5) listings reflect each species' global and European status as well as that within the UK, and additionally measure the importance of the UK population in international terms.
- 1.2.3. Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 requires the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England; this is known as England Biodiversity List².
- 1.2.4. The UK Biodiversity Action Plan (UK BAP), as updated by the UK Biodiversity Partnership in 2007, was used to draw up the England Biodiversity List. The UK BAP has been succeeded by the UK Post-2010 Biodiversity Framework in 2012, due to a change in government strategy by all UK countries, focusing on managing the environment as a whole rather than dealing with different aspects of biodiversity and environment separately³. However, the UK BAP list of priority habitats and species continue to be regarded as conservation priorities in the UK Post-2010 Biodiversity Framework.
- 1.2.5. Forty-nine bird Species of Principal Importance (SPI) are included on the England Biodiversity List. These include 48 of the 53 bird species listed for England in the UK BAP⁴, with the addition of hen harrier whose population in England is at very low levels and is unlikely to increase without continued conservation action. The England Biodiversity List is used as a guide for decision makers such as public bodies, including local and regional authorities, in implementing their duty under Section 40 of the NERC Act 2006 to have regard to the conservation of biodiversity in England when carrying out their normal functions.

¹ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747. Available at [REDACTED]

² <https://www.gov.uk/government/publications/habitats-and-species-of-principal-importance-in-england>

³ JNCC and Defra (on behalf of the Four Countries' Biodiversity Group). 2012. UK Post-2010 Biodiversity Framework. (http://jncc.defra.gov.uk/pdf/UK_Post2010_Bio-Fwork.pdf; accessed 13 November 2013).

⁴ Arctic skua, black-throated diver, red-backed shrike, red-necked phalarope, and wryneck are listed for England in the UK BAP but are not included in the England biodiversity list

2. Methodology

2.1. Introduction

- 2.1.1. Unless otherwise stated, the term ‘Scheme Boundary’ refers to the Order limits, excluding areas of the Order limits that extend approximately 2 km north and 2 km south of the Scheme alignment, along the M5. In these locations, the Scheme Boundary is the Scheme alignment. The Order limits and the Scheme alignment are shown on Figures 7-9A – 7-9G.
- 2.1.2. Within the areas of the Order limits that extend north and south of the Scheme alignment, the only works proposed are the installation of signs in discrete locations, which will require vegetation clearance of up to approximately 20 m² plus some minor trimming back of vegetation up to a distance of 180 m in front of the sign to ensure visibility. These signage locations can be micro sited to avoid/minimise ecological impacts. These small-scale works are consistent with routine highway maintenance works. The results of desk study and field surveys here would not have any bearing on the impact assessment for the Scheme, and these areas have been excluded from assessments to inform the ES. Pre-construction surveys of the discrete signage locations and working with the contractor to micro site locations where appropriate to avoid or minimise ecological impacts will be undertaken, and is considered to be proportionate.

2.2. Desk Study

- 2.2.1. The geographical area for obtaining ecological data through desk studies has been determined using professional judgement. Baseline data has been gathered from a range of sources through data requests and using online resources as outlined below. This includes data gathering in relation to statutory and non-statutory designated sites and protected and priority species.
- 2.2.2. The MAGIC website⁵ was reviewed to identify relevant statutory designated nature conservation sites (i.e. where birds are the reason or part of the reason for designation) within 2 km of the Scheme or with a direct hydrological connection.
- 2.2.3. Species of principal importance for the conservation of biodiversity listed in accordance with Section 41 of the Natural Environment & Rural Communities Act (NERC) 2006⁶, the Red and Amber lists of BoCC5⁷ and the Gloucestershire Local Biodiversity Action Plan⁸ were reviewed as part of the data gathering exercise to identify relevant bird species considered to be important for biodiversity at the site. The Gloucestershire Bird Report⁹ and Gloucestershire Breeding Bird Atlas¹⁰ were reviewed to ascertain the population status of certain species within the county.
- 2.2.4. Gloucestershire Centre for Environmental Records (GCER) was contacted in September 2019 and again in April 2021 and July 2022 to obtain recent records¹¹ of:

⁵ <https://magic.defra.gov.uk/>

⁶ Section 40 of the NERC Act 2006 sets out the duty for public authorities to conserve biodiversity in England. Habitats and species of principal importance for the conservation of biodiversity as identified by the Secretary of State for England, in consultation with Natural England, are referred to in Section 41 of the NERC Act 2006 for England. The list of habitats and species was updated in 2008 and is known as the England Biodiversity List.

⁷ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747. Available at

[REDACTED] Available from:

⁹ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Co-ordinating Committee

¹⁰ Kirk, G. and Phillips, J. (2013) *The Birds of Gloucestershire*. Liverpool University Press

¹¹ Records of observations within the last 10 years

- Non-statutory designated nature conservation sites within 1 km of the Scheme Boundary (where birds are the reason or part of the reason for designation); and
- Priority¹² bird species within 1 km of the Scheme Boundary.

2.3. Field Survey

- 2.3.1. Surveys were led by suitably experienced ecologists (considered competent to undertake wintering and passage bird surveys in accordance with the Chartered Institute of Ecology and Environmental Management (CIEEM) competencies¹³), who are members of CIEEM. The lead surveyor is an experienced ornithologist with over 15 years of professional bird survey and assessment experience.
- 2.3.2. The method employed for wintering bird surveys broadly conformed to that used for the Common Bird Census (CBC) survey, devised and run between 1962 and 2000 by the British Trust for Ornithology (BTO) as detailed in Gilbert et al. (1998)¹⁴ and Bibby et al. (2000)¹⁵. CBC uses a mapping method in which a series of visits are made to a site during the wintering season, and observations of birds, by sight or sound, are recorded on a map during a walked transect.
- 2.3.3. The Survey Area comprised all areas within the Scheme Boundary and accessible land within 250 m of the Scheme. The Survey Area was designed to ensure that the assessment considered all potential impacts on all species present in the area within which an impact may occur (i.e. the Ecological Zone of Influence (EZoI)), as well as those impacts which could occur within the footprint of the Scheme. This included species which may be sensitive to disturbance over large distances during the wintering season, such as certain raptor species. The extent of the Survey Area also allowed for some degree of design changes to the Scheme to be accommodated.
- 2.3.4. Seven survey visits were carried out in total, with one survey undertaken each month from September 2019 to March 2021. This was considered proportionate for a relatively localised road improvement Scheme, allowing sufficient observations of birds to produce clusters of registrations and minimising the risk of overlooking scarce and/or priority species. Eight representative transects of varying lengths were surveyed, which gave suitable coverage of the Survey Area. Six of these transects are within the Survey Area of the current Scheme (following refinement of the Scheme design). The direction in which the transects were walked was varied between visits to optimise detection and minimise recording bias. Transects are shown on Figures 7-9A to 7-9G in Appendix A.
- 2.3.5. Surveys were not carried out in heavy rain, poor visibility or strong wind as birds are under-recorded in such conditions. Dates of survey visits are shown in Appendix B along with weather conditions on each visit.
- 2.3.6. The surveyor, with the aid of binoculars, recorded all observations of birds by either sight or sound by walking through the Survey Area at a slow and steady pace. The positions of the recorded birds were plotted as accurately as possible on a suitably scaled base map, (i.e. a 'visit map'). Standard BTO codes and symbols¹⁶ were used for mapping species (including sex and age, e.g. juvenile, immature or adult) and bird activity where relevant (including foraging, loafing and in flight).

¹² In this context, priority birds include those listed as species of principal importance for the conservation of biodiversity in England, those identified as Red or Amber on BoCC5, Annex I listed species on Directive 2009/147/EC (the Birds Directive), those listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), species listed on the Gloucestershire Biodiversity Action Plan, qualifying features of the Severn Estuary SPA and/or features of interests of the Severn Estuary Ramsar site, qualifying features of Walmore Common SPA.

¹³ [REDACTED]

¹⁴ Gilbert, G., Gibbon, D.W. and Evans J. (1998). Bird Monitoring Methods: A Manual of Techniques for Key UK Species. Royal Society for the Protection of Birds, The Lodge, Sandy, Bedfordshire

¹⁵ Bibby C.J. Burgess, N.D. Hill D.A. Mustoe S. and Lambton S. (2000). Bird Census Techniques. Academic Press London

¹⁶ BTO (2009) BTO Species Codes. BTO, Thetford

2.4. Assessment

Defining Important Bird Species

- 2.4.1. For the purpose of this assessment, priority bird species are defined as those which are listed as species of principal importance for the conservation of biodiversity in England, those identified as Red or Amber on the BoCC5¹⁷, Annex I listed species on Directive 2009/147/EC (the Birds Directive), species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), species listed on the Gloucestershire Local Biodiversity Action Plan, qualifying features of the Severn Estuary SPA and/or features of interests of the Severn Estuary Ramsar site and qualifying features of Walmore Common SPA/Ramsar site.

Determination of Bird Community Importance

- 2.4.2. The priority populations of wintering and passage birds have been valued in a geographical context following the framework provided in LA 108¹⁸. The evaluation is based on the information gathered from the desk study and field surveys, using a combination of professional judgement and accepted criteria¹⁹ (e.g. diversity, rarity and naturalness).

2.5. Limitations

- 2.5.1. Ornithological surveys are affected by a variety of factors which affect the presence of birds such as season, weather, climate, migration patterns, food availability, species behaviour and the presence of predators. Therefore, bird surveys for this Scheme may not have produced a complete bird list and the absence of evidence of any particular species within the Survey Area (or a part of the Survey Area), should not be taken as conclusive proof that the species is not present or that it will not be present in the future.
- 2.5.2. The M5 and A4019 was subject to a high volume of traffic towards the end of each survey visit due to increases in commuter traffic volume, which resulted in significant noise pollution surrounding the road network. Birds are generally sensitive to noise pollution; therefore, it is not considered that any significant assemblages of priority species would be present in the areas of vegetation immediately surrounding the road network that were subject to the highest levels of noise pollution during the surveys.
- 2.5.3. Approximately half of the Survey Area was not visited during March 2020 due to the Coronavirus pandemic. However, due to the survey coverage and the number of repeated visits, it is considered that any wintering species regularly present within the EZol would have been recorded, and that the survey results comprise an accurate account of the wintering species assemblage within the EZol.
- 2.5.4. Access to all land parcels within 250 m of the Scheme Boundary was not granted by the time the surveys were undertaken. As such, surveys of certain areas, particularly at the north east extent of the Scheme, could only be undertaken from Public Rights of Way (PRoWs), which were up to 250 m from the Scheme in places.
- 2.5.5. Nevertheless, it is considered that the results of these bird surveys and the subsequent assessment provide an indication of the use of the EZol by wintering bird species during the survey period.

¹⁷ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747. Available at [REDACTED]

¹⁸ Highways England. March 2020. LA 108 Biodiversity [Online]. [Accessed October 2020]. Available from: [REDACTED]

¹⁹ Set out in Ratcliffe, D.A (1977). *A Nature Conservation Review*. Cambridge University Press.

3. Results

3.1. Desk Study

Designated Sites

- 3.1.1. There is one statutory designated site with birds as a feature of interest within 2 km of the Scheme. This is Coombe Hill Canal SSSI, located approximately 1.9 km north west, designated partly for its diverse breeding bird assemblage.
- 3.1.2. The closest statutory designated sites that have been specifically designated with respect to their ornithological importance are Walmore Common SPA and Ramsar site, and Severn Estuary SPA and Ramsar sit, located approximately 17.5 km and 22.7 km to the south west of the Site respectively.
- 3.1.3. Walmore Common SPA is designated under Articles 4.1 of the EC Directive 79/409/EEC for regularly supporting populations of European importance of Bewick's swan (*Cygnus columbianus*) over winter.
- 3.1.4. The Severn Estuary SPA is designated under Article 4.1 of the EC Directive 79/409/EEC for supporting populations of European importance of wintering wildfowl and waders and under Article 4.2 for regularly supporting at least 20,000 waterfowl over winter.
- 3.1.5. There are no non-statutory designated sites within 2 km of the Scheme.

Biological Records

- 3.1.6. The Gloucestershire Local BAP includes action plans for 13 bird species in total, namely bittern (*Botaurus stellaris*), nightjar (*Caprimulgus europaeus*), woodlark (*Lullula arborea*), spotted flycatcher (*Muscicapa striata*) and 'farmland birds' (skylark (*Alauda arvensis*), linnet (*Linaria cannabina*), reed bunting (*Emberiza schoeniclus*), corn bunting (*Emberiza calandra*), tree sparrow (*Passer montanus*), grey partridge (*Perdix perdix*), bullfinch (*Pyrrhula pyrrhula*), turtle dove (*Streptopelia turtur*) and song thrush (*Turdus philomelos*)).
 - 3.1.1. The desk study identified recent records (i.e. since 2012) of 40 priority bird species within 1 km of the Scheme, of which 32 species were recorded within the wintering and passage season (i.e. September to March inclusive). This includes:
 - Five species on Schedule 1 of the Wildlife and Countryside Act 1981 (fieldfare (*Turdus pilaris*), merlin (*Falco columbarius*), peregrine (*Falco peregrinus*), red kite (*Milvus milvus*) and redwing (*Turdus iliacus*));
 - Twelve species on the Red List of BoCC5 (fieldfare, greenfinch (*Chloris chloris*), herring gull (*Larus argentatus*), house martin (*Delichon urbicum*), house sparrow (*Passer domesticus*), lapwing (*Vanellus vanellus*), linnet, merlin, mistle thrush (*Turdus viscivorus*), skylark, starling (*Sturnus vulgaris*) and yellowhammer (*Emberiza citrinella*));
 - Seventeen species on the Amber List of BoCC5 (black-headed gull (*Chroicocephalus ridibundus*), bullfinch, common gull (*Larus canus*), dunnoek (*Prunella modularis*), grey wagtail (*Motacilla cinerea*), kestrel (*Falco tinnunculus*), lesser black-backed gull (*Larus fuscus*), meadow pipit (*Anthus pratensis*), moorhen (*Gallinula chloropus*), redwing, rook (*Corvus frugilegus*), snipe (*Gallinago gallinago*), song thrush, sparrowhawk (*Accipiter nisus*), stock dove (*Columba oenas*) and tawny owl (*Strix aluco*), wren (*Troglodytes troglodytes*) and woodpigeon (*Columba palumbus*));
 - Ten species listed as species of principal importance for the conservation of biodiversity in England (bullfinch, dunnoek, herring gull, house sparrow, lapwing, linnet, skylark, song thrush, starling and yellowhammer);

- Three species listed on Annex 1 of the Birds Directive (merlin, peregrine and red kite);
- Four species listed on the Gloucestershire Local BAP (bullfinch, linnet, skylark and song thrush);
- Two qualifying species of the Severn Estuary SPA (lapwing and mallard (*Anas platyrhynchos*)); and
- One species identified on the Severn Estuary Ramsar Information Sheet (herring gull), identified as noteworthy fauna.

3.2. Field Survey

3.2.1. A total of 64 species were recorded within the Survey Area, of which 34 are priority species. The full survey species list, peak counts and conservation status can be seen in Appendix C and the results are shown on Figures 7-9A to 7-9G in Appendix A. This includes:

- Five species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) (barn owl (*Tyto alba*), fieldfare, kingfisher (*Alcedo atthis*), red kite and redwing);
- Twelve species on the Red List of BoCC5 (fieldfare, greenfinch, herring gull, house martin, house sparrow, lapwing, linnet, mistle thrush, skylark, spotted flycatcher, starling and yellowhammer);
- Nineteen species on the Amber List of BoCC5 (black-headed gull, dunnock, grey wagtail, kestrel, lesser black-backed gull, mallard, moorhen, meadow pipit, redstart (*Phoenicurus phoenicurus*), redwing, reed bunting, rook, song thrush, sparrowhawk, stock dove, wheatear (*Oenanthe oenanthe*), willow warbler (*Phylloscopus trochilus*) woodpigeon and wren).
- Eleven species listed as species of principal importance for the conservation of biodiversity in England (dunnock, herring gull, house sparrow, lapwing, linnet, reed bunting, skylark, song thrush, spotted flycatcher, starling, and yellowhammer);
- Two species listed on Annex 1 of the Birds Directive (kingfisher and red kite);
- Five species listed on the Gloucestershire Local BAP (linnet, reed bunting, skylark, song thrush and spotted flycatcher);
- Two qualifying species of the Severn Estuary SPA (lapwing and mallard); and
- Two species identified on the Severn Estuary Ramsar Information Sheet (herring gull, identified as noteworthy fauna and lesser-black backed gull, identified as a species subsequent to designation for possible future consideration under criterion 6).

3.3. Incidental Records

3.3.1. Three additional species were recorded during other ecology surveys undertaken during the winter and passage period (September to March inclusive) that were not observed during the wintering and passage bird surveys: little owl (*Athene noctua*), snipe and tawny owl.

3.4. Description of Bird Assemblages

3.4.1. The assemblage of wintering and passage birds is considered to be largely typical of agricultural areas, woodland and scrub and built-up areas within Gloucestershire.

3.4.2. The presence of agricultural habitats such as arable fields, hedgerows and improved grassland within the Survey Area has resulted in the recording of associated priority species including grey wagtail, kestrel, lapwing, linnet, meadow pipit, skylark, starling,

stock dove, yellowhammer, wintering thrushes (fieldfare and redwing) and gulls (black-headed gull, herring gull and lesser-black backed gull).

- 3.4.3. Notable species associated with semi-natural broadleaved woodland include mistle thrush and song thrush; and those associated with built-up areas include house martin, house sparrow, swallow (*Hirundo rustica*) and starling.

4. Evaluation

- 4.1.1. Sixty of the 67 species recorded during the wintering and passage bird survey or as an incidental observation have a Gloucestershire resident, wintering or passage population status that is abundant, common or fairly common²⁰.
- 4.1.2. Five of these species are identified in a county or equivalent authority area plan or strategy (i.e. within the Gloucestershire Local BAP). This comprises three species listed under ‘farmland birds’: linnets (peak count of 34), reed bunting (peak count of 1), skylark (peak count of 37) and song thrush (peak count of 6); and spotted flycatcher (peak count of 1).
- 4.1.3. Seven species recorded during the wintering and passage bird survey or as an incidental observation have a Gloucestershire resident, wintering or passage population status that is uncommon or scarce²¹:
- Barn owl (uncommon or scarce resident). Individual birds were observed in October 2019 and September 2020, and a dead bird was recorded in September 2019;
 - Chiffchaff (*Phylloscopus collybita*) (scarce but increasing winter visitor). A peak count of 17 was recorded during September 2019, with four individuals recorded in October 2019 and five in March 2020 which are considered likely to be on passage. One individual was recorded in November 2019 which was possibly over-wintering in the Survey Area;
 - Kingfisher (uncommon). A peak count of two individuals was recorded in September 2019 (incidental records approximately 2.5 km apart, so as a precaution assumed to be different individuals). Individual birds were also recorded during the survey in October 2019, January 2020 and February 2020;
 - Lesser whitethroat (*Curruca curruca*) (uncommon). One individual was recorded during September 2019, probably a passage bird;
 - Raven (*Corvus corax*) (uncommon). A peak count of five was recorded during February 2020;
 - Red kite (uncommon). One individual was recorded during February 2020; and
 - Stonechat (*Saxicola rubicola*) (uncommon). A peak count of one recorded during October and November 2019 and January 2020.
- 4.1.4. Two qualifying species of the Severn Estuary SPA have been recorded (i.e. lapwing (two individuals) and mallard (peak count of nine individuals)). Given the low numbers recorded, they are unlikely to be a significant component of the SPA populations. Furthermore, at this distance from the SPA (located over 20 km south west of the Scheme at the nearest point), it is considered highly unlikely that the individuals recorded within the study area are part of the SPA qualifying feature populations.
- 4.1.5. This is supported by a recent study²² which identifies functionally linked land associated with the Severn Estuary SPA. The maps which accompany this study do not identify that these species regularly move between the SPA and the Survey Area.
- 4.1.6. However, the study also indicates that lapwing have been recorded within the Survey Area (in the vicinity of Boddington Manor Farm, at the west of the Scheme) in numbers which reached or exceeded the equivalent of the 1% SPA population criterion for importance on at least one occasion. No lapwing were recorded at this location during the wintering and passage bird surveys, and as the study indicates that there are no regular

²⁰ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Coordinating Committee

²¹ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Coordinating Committee

²² Link Ecology Ltd (September 2020) Identification of land with proven or possible functional linkages with the Severn Estuary SSSI/SPA Phase 5 (Gloucestershire and Worcestershire) A report to Natural England.

movements between the SPA and this location, it is therefore considered that this area is not regularly used by or of significant importance for lapwing.

- 4.1.7. Two species identified on the Severn Estuary Ramsar Information Sheet have been recorded. Herring gull (identified as noteworthy fauna occurring at levels of national importance during the breeding season) was recorded in reasonably high numbers on two occasions (September and December 2019, with a peak count of 306). Lesser black-backed gull (identified as a species subsequent to designation for possible future consideration under criterion 6) was recorded in reasonably high numbers on one occasion (a peak count of 148 in September 2019). It is considered that these individuals are likely to be from breeding populations within urban areas such as Cheltenham and/or Gloucester, which are closer to the Scheme than the Ramsar site breeding colonies at Steep Holm and Flat Holm²³ (approximately 90 km south west). Cheltenham Borough Council states that “Herring Gulls and Lesser Black-Backed Gulls nest in the residential areas of Cheltenham and on industrial units in the Kingsditch area”²⁴. The JNCC Seabird Monitoring Programme online database states that the Gloucestershire Urban Gulls Cheltenham site (85627) supported 46 herring gull apparently occupied territories and 273 lesser black-backed gull apparently occupied territories in 2011 (year of last count) and the Gloucester City: Gloucester site (86737) supported 657 herring gull apparently occupied nests and 2230 lesser black-backed gull apparently occupied nests in 2009 (year of last count)²⁵.
- 4.1.8. The habitats within the Survey Area are not considered to provide a role in maintaining the SPA or Ramsar populations or to be functionally linked to any SPAs or Ramsar sites.
- 4.1.9. Although five species are listed on the Gloucestershire Local BAP, these species are currently listed as either common, formerly common or fairly common within Gloucestershire. The peak counts for these species (see Appendix C) within the Survey Area are not considered to be of county importance in relation to Gloucestershire populations.
- 4.1.10. Therefore, taken as a whole, the wintering and passage bird assemblage is considered to appreciably enrich the habitat resource within the local context, which includes features of importance for migration. The assemblage of these wintering and passage birds is therefore considered to be of Local importance for biodiversity.

²³ Burton, N.H.K., Musgrove, A.J., Rehfisch, M.M., and Clark N.A. (2010) Birds of the Severn Estuary and Bristol Channel: Their current status and key environmental issues. *Marine Pollution Bulletin* 61 (2010) 115–123

²⁴ Cheltenham Borough Council (2018) Urban Gulls Scrutiny Task Group Report. Available at https://democracy.cheltenham.gov.uk/documents/s27390/2018_12_04_CAB_Urban_Gulls_scrutiny_report.pdf

²⁵ <https://app.bto.org/seabirds/public/index.jsp>

Appendices



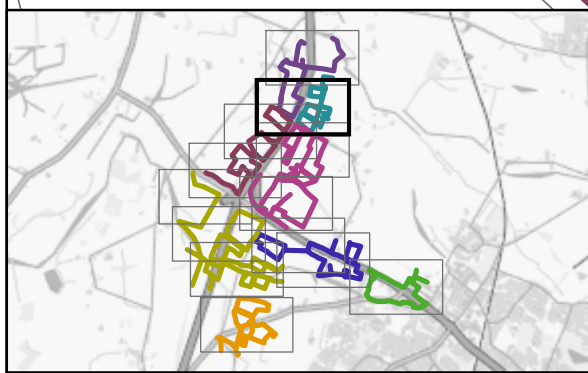
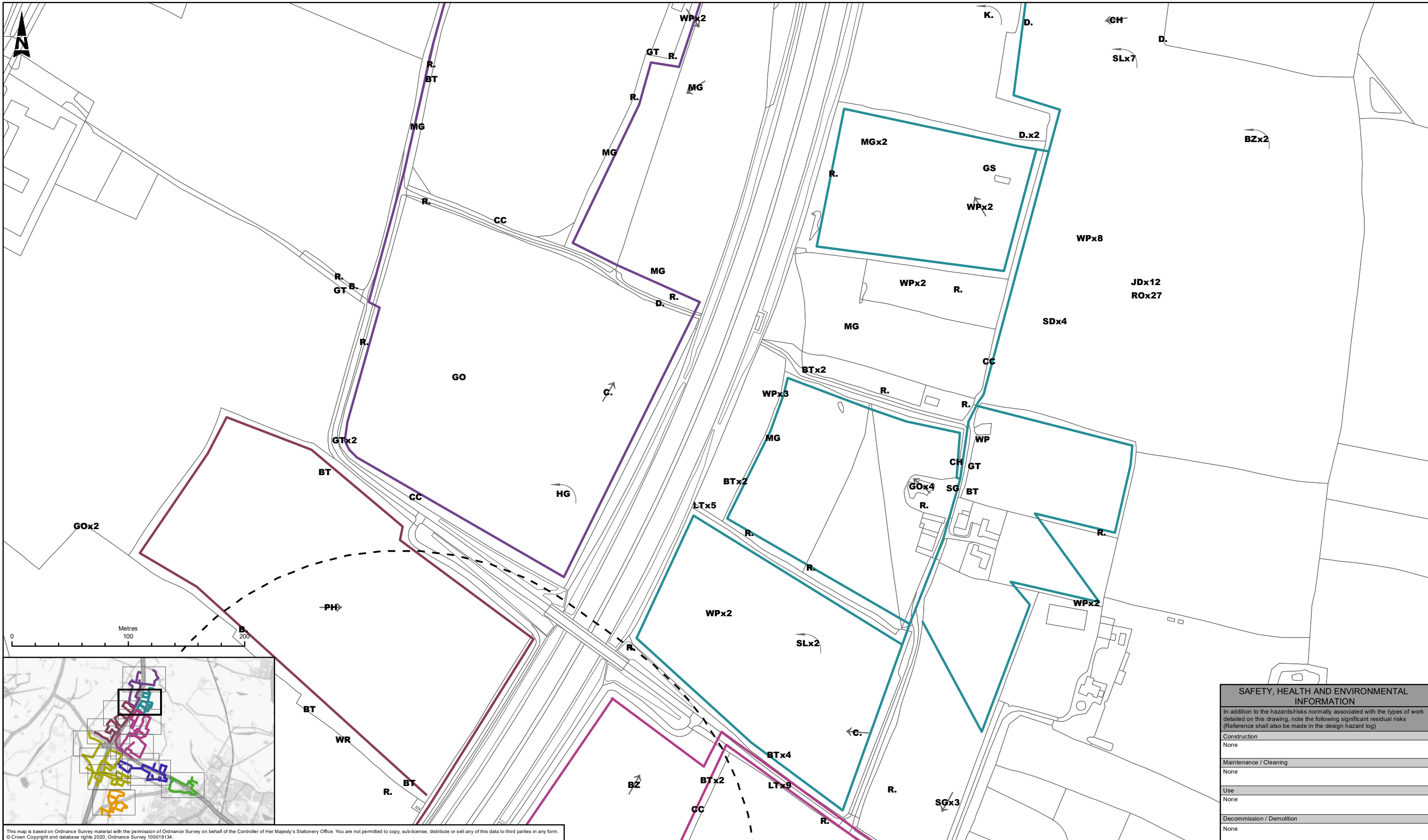
Appendix A. Schedule of figures included in this application document

Figure reference	Document title	Sheet	Document number	Revision
7-9A	Wintering bird survey results September 2019	1 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
7-9A	Wintering bird survey results September 2019	2 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
7-9A	Wintering bird survey results September 2019	3 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
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7-9A	Wintering bird survey results September 2019	9 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
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7-9A	Wintering bird survey results September 2019	11 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
7-9A	Wintering bird survey results September 2019	12 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
7-9A	Wintering bird survey results September 2019	13 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000022	0
7-9B	Wintering bird survey results October 2019	1 of 13	GCCM5J10-ATK-EBD-ZZ-GS-GI-000023	0
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Figure reference	Document title	Sheet	Document number	Revision
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

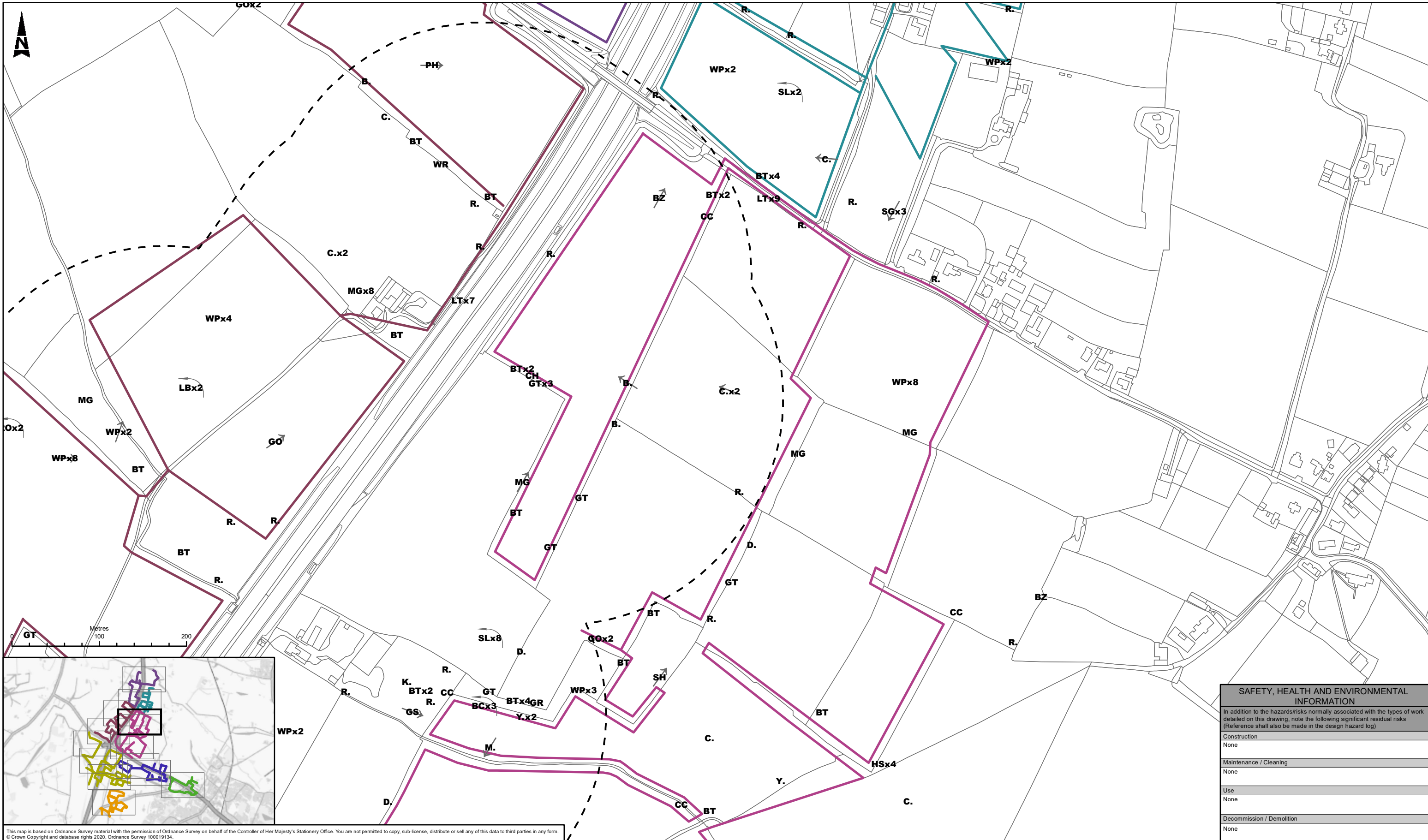
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	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Gloucestershire
 COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000022	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 2 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
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D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
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GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
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HG	HERRING GULL
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K.	KESTREL
LB	LESSER BLACK-BACKED GULL
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PW	PIED WAGTAIL
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SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMM...

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

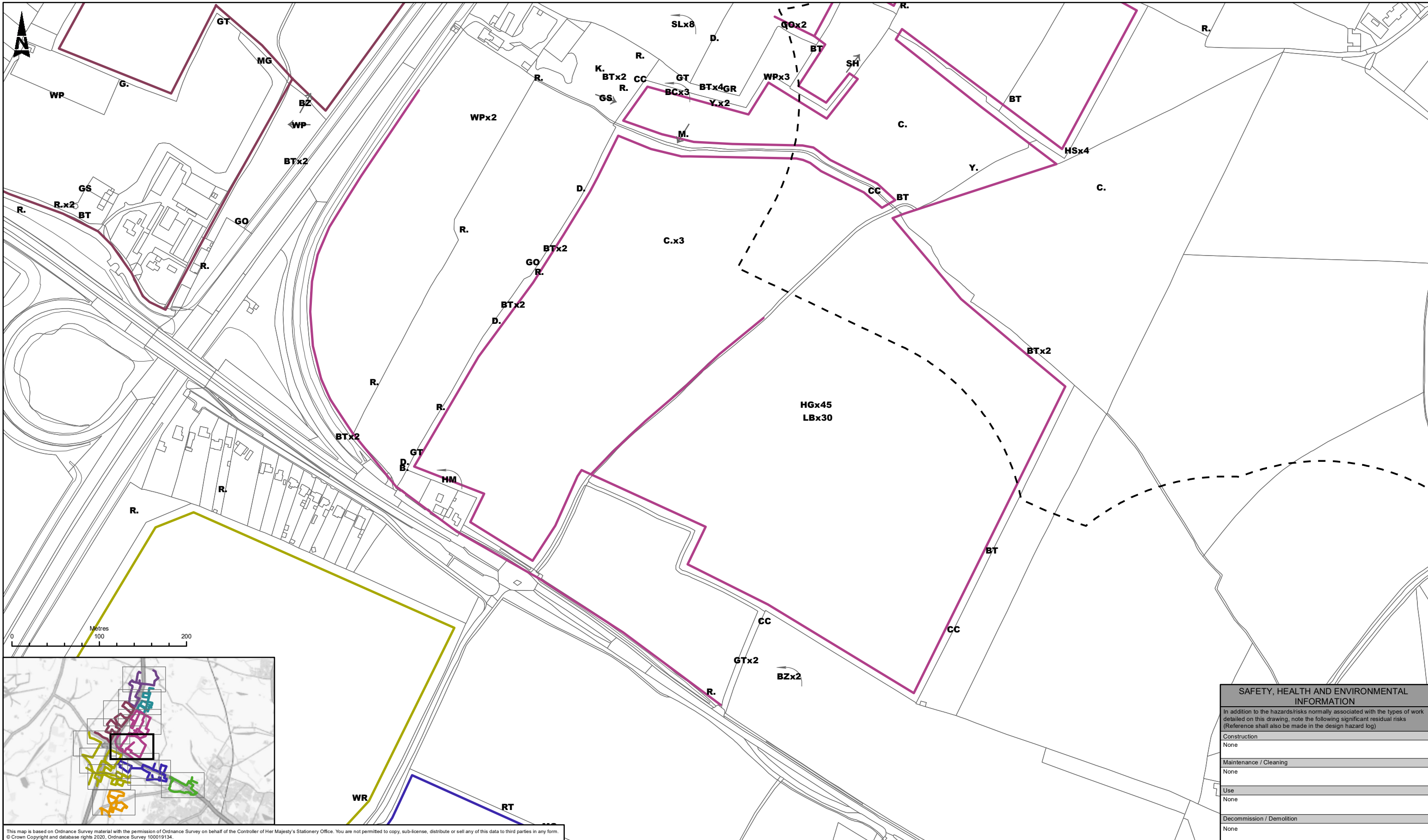
Drawing Suitability: **PUBLISHED**

Status: **A1**

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000022	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 3 of 13 Rev: P03

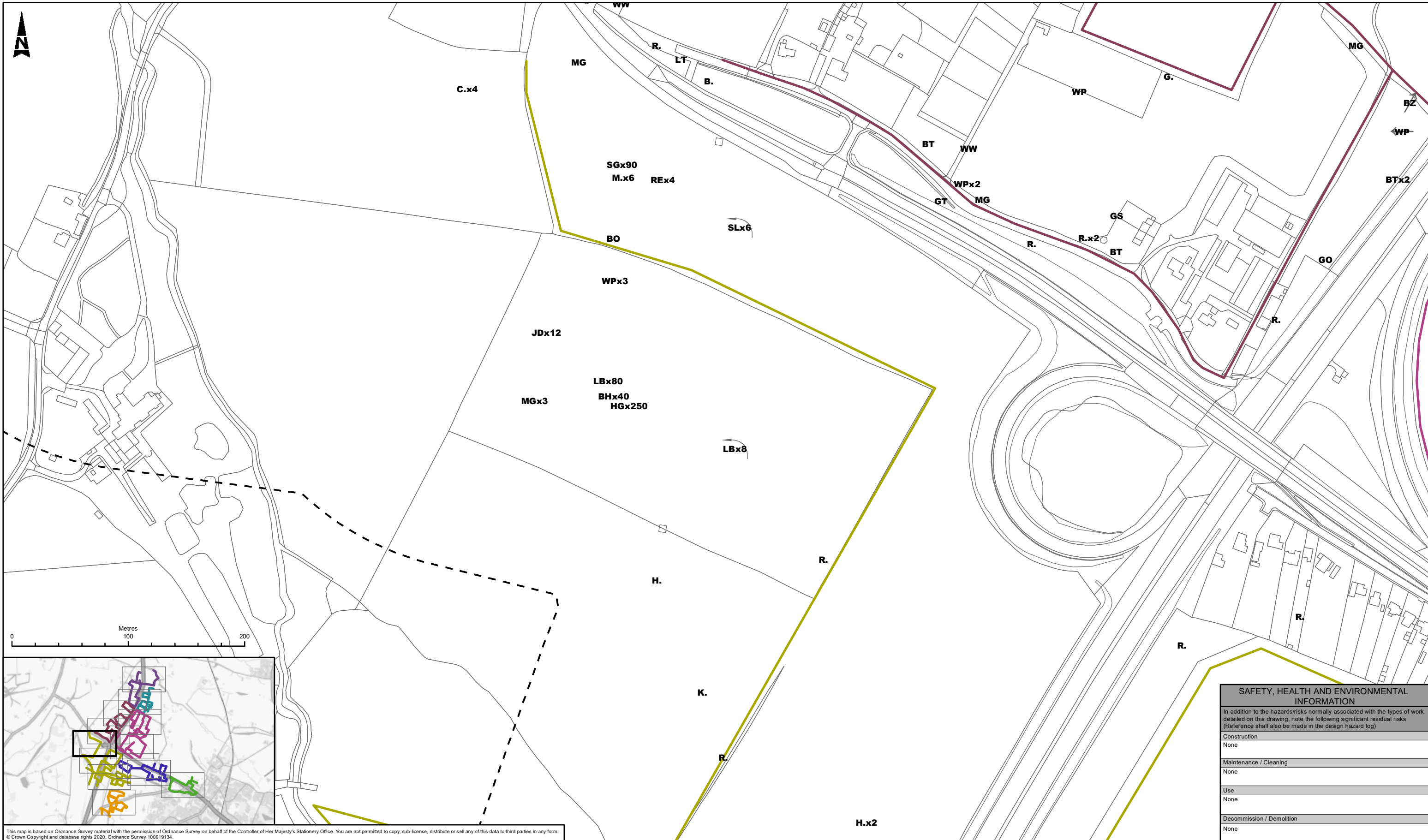


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5	B.	BLACKBIRD	CT	COAL TIT
	TRANSECT 6	BT	BLUE TIT	D.	DUNNOCK
	TRANSECT 7	BH	BLACK-HEADED GULL	FF	FIELDFARE
	TRANSECT 8	G.		GC	GOLDCREST
	TRANSECT 9	GL		GD	GOLDFINCH
		GO		GS	GREAT SPOTTED WOODPECKER
		GT		GT	GREAT TIT
		HG		HT	HERRING GULL
		HS		MA	MALLARD
		J.	JAY	MG	MAGPIE
		JD	JACKDAW	MP	MEADOW PIPIT
		K.	KESTREL	PW	PIED WAGTAIL
		LB	LESSER BLACK-BACKED GULL	PH	PHEASANT
		LT	LONG-TAILED TIT	R.	ROBIN
		M.	MISTLE THRUSH	RE	REDWING
		MA		RO	ROOK
		SD	STOCK DOVE	S.	SKYLARK
		SG	STARLING		
		SH	SPARROWHAWK		
		ST	SONG THRUSH		
		WP	WOOD PIGEON		
		WR	WREN		
		Y.	YELLOWHAMM...		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvements Scheme
PUBLISHED						01/05/23	
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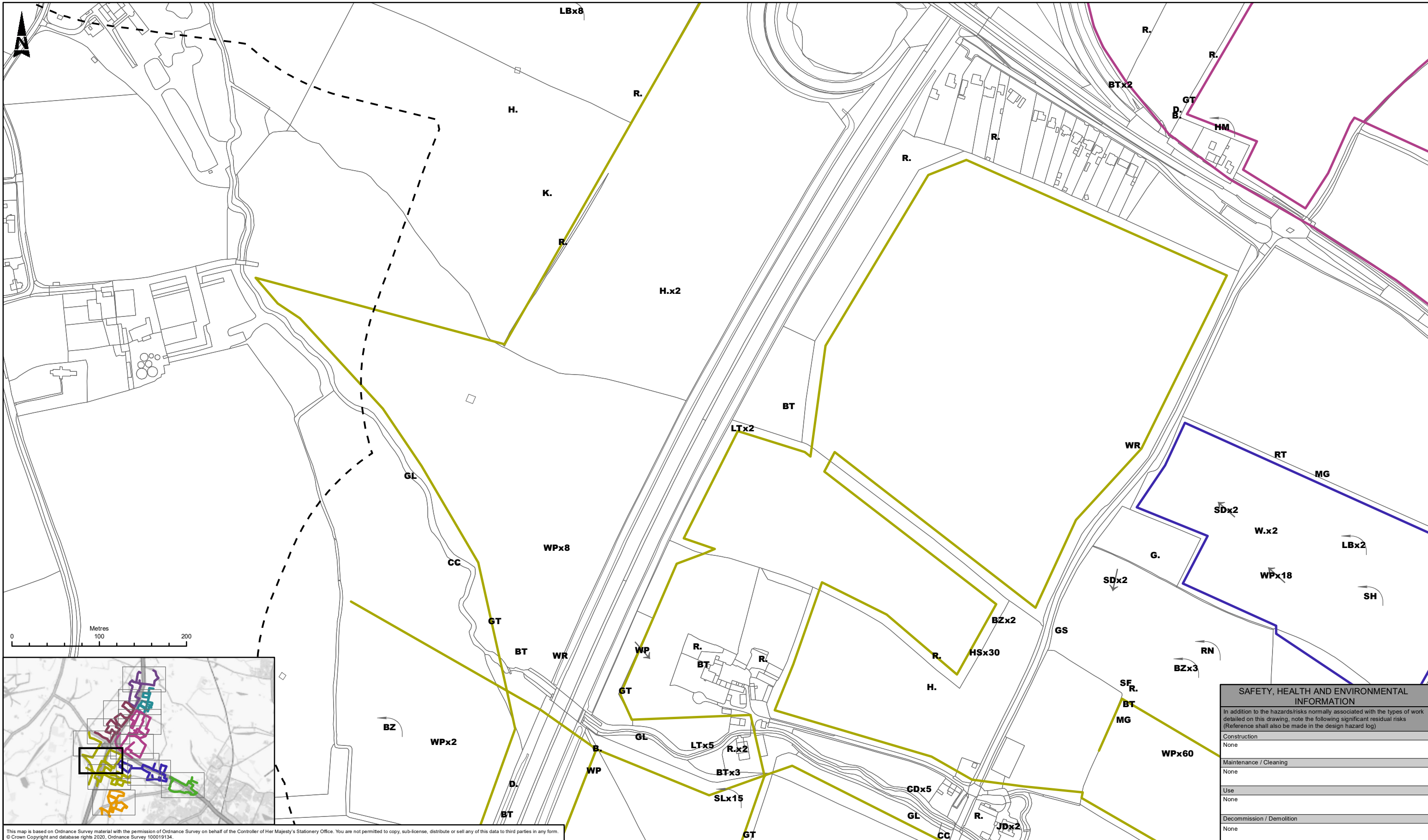


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6			D.	DUNNOCK
	TRANSECT 7			FF	FIELDFARE
	TRANSECT 8			G.	GREEN WOODPECKER
	TRANSECT 9			B.	BLACKBIRD
				BT	BLUE TIT
				BH	BLACK-HEADED GULL
				GC	GOLDCREST
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				HG	HERRING GULL
				HS	HOUSE SPARROW
				J.	JAY
				JD	JACKDAW
				K.	KESTREL
				LB	LESSER BLACK-BACKED GULL
				LT	LONG-TAILED TIT
				M.	MISTLE THRUSH
				MA	MALLARD
				MG	MAGPIE
				MP	MEADOW PIPIT
				PW	PIED WAGTAIL
				PH	PHEASANT
				R.	ROBIN
				RE	REDWING
				RO	ROOK
				S.	SKYLARK
				SD	STOCK DOVE
				SG	STARLING
				SH	SPARROWHAWK
				ST	SONG THRUSH
				WP	WOOD PIGEON
				WR	WREN
				Y.	YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
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Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514			
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com			
Description		Client		Gloucestershire COUNTY COUNCIL		Drawing Number	
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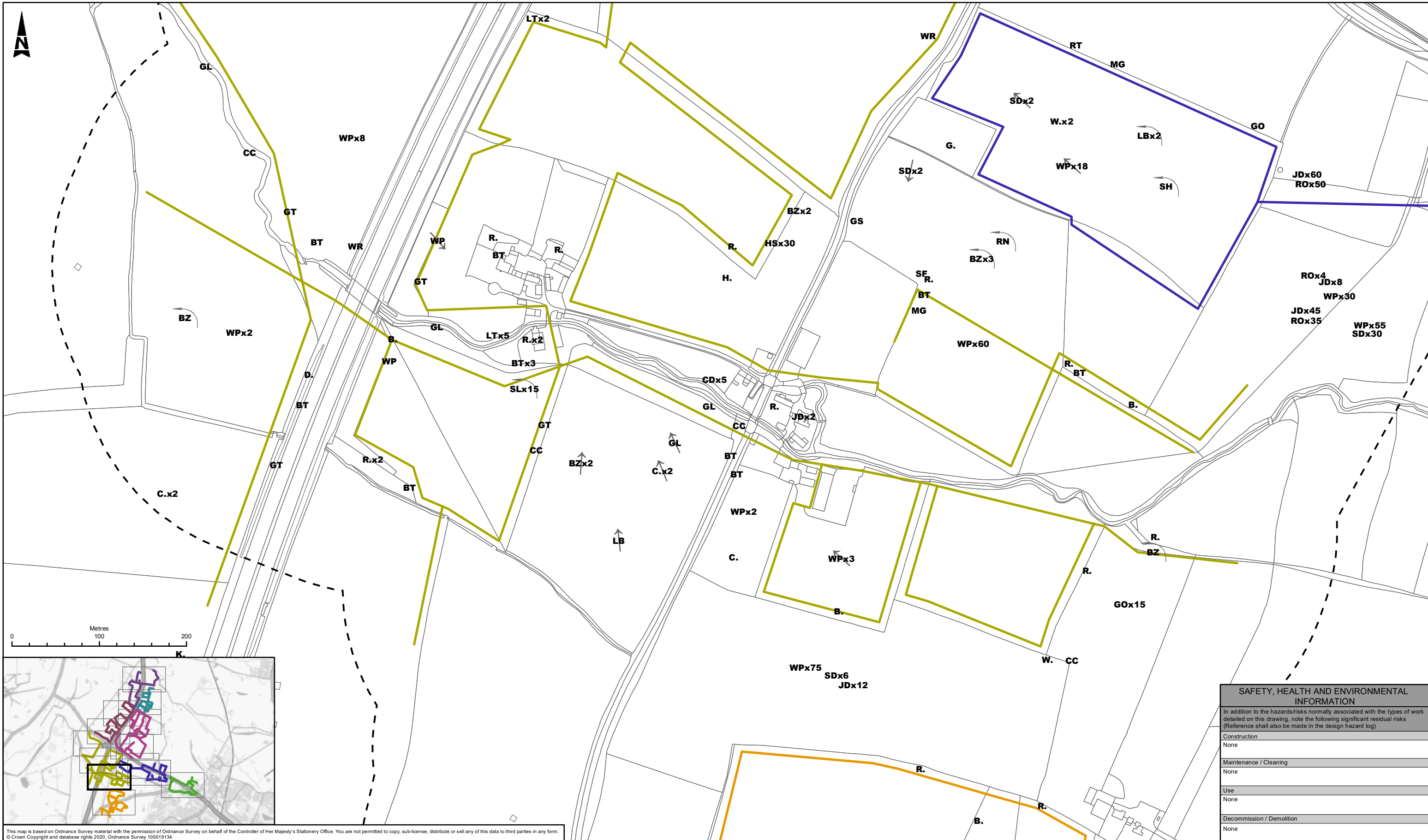


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Construction	None
Maintenance / Cleaning	None
Use	None
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LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
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CH	CHAFFINCH
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SH	SPARROWHAWK
ST	SONG THRUSH
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WR	WREN
Y.	YELLOWHAMM...

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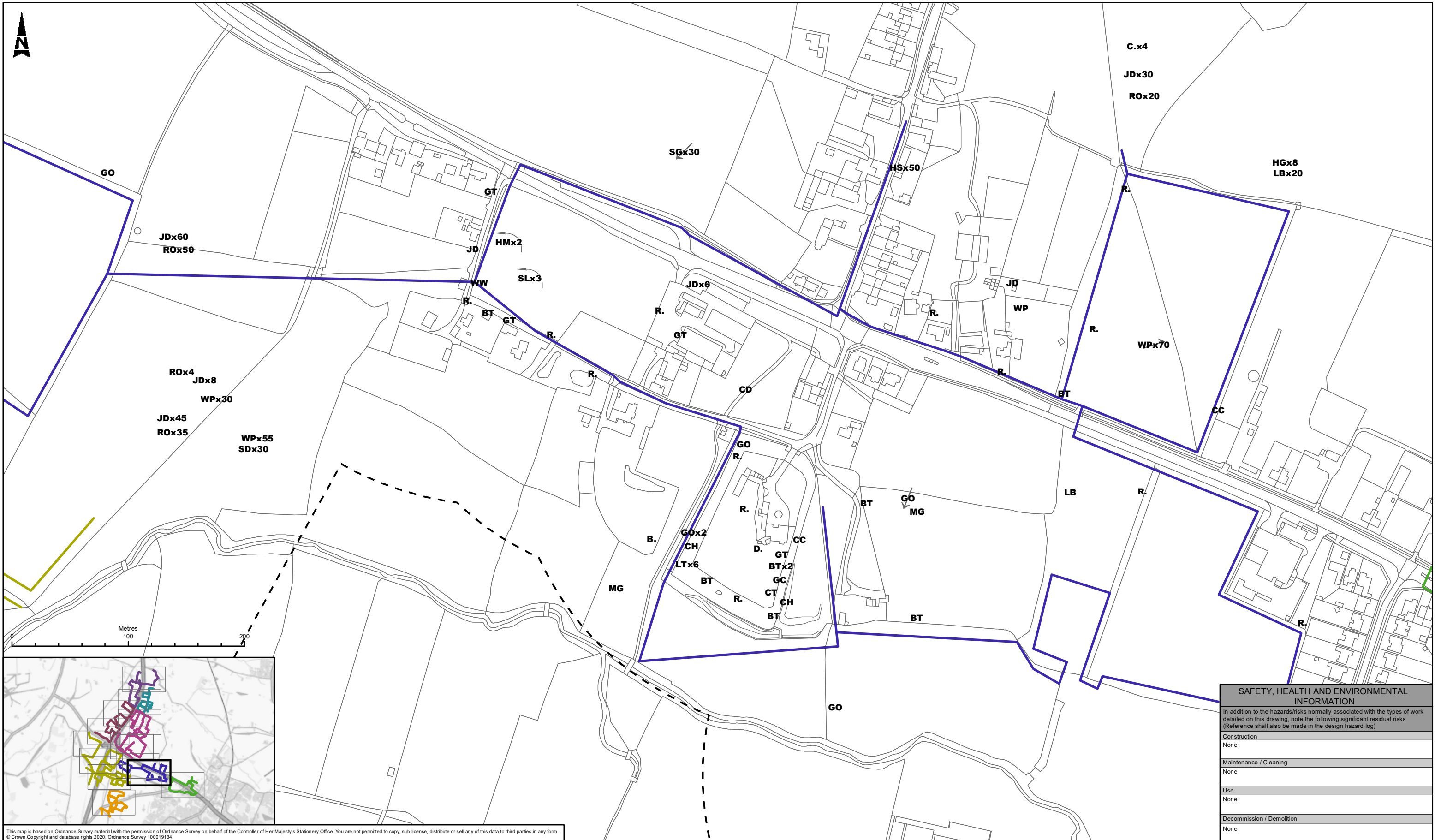


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	TRANSECT 3
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	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
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Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1
Description		Drawing Suitability		Status		Project Title	
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1
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Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1

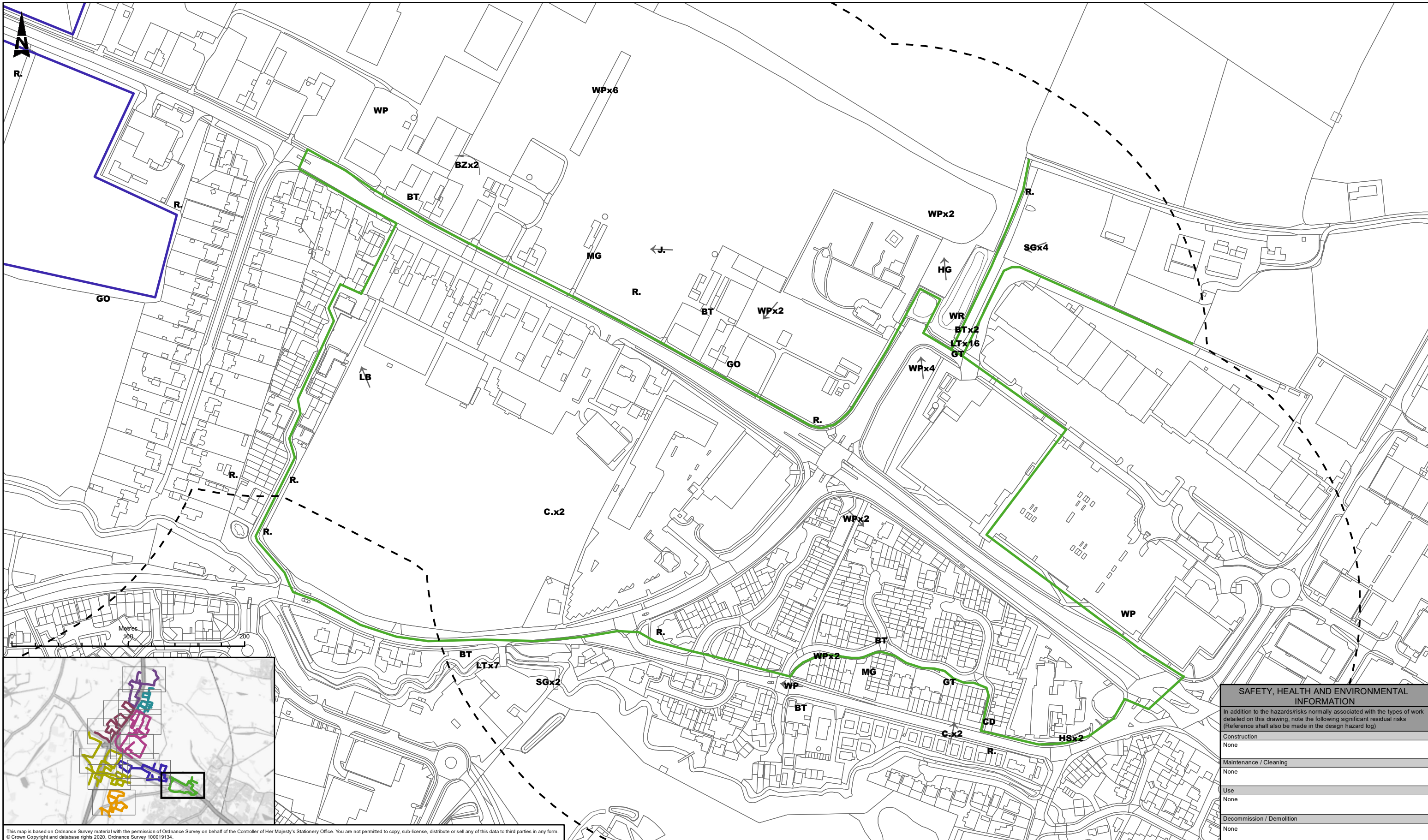


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Dashed Box]	250M STUDY AREA	[Arrow]	FORAGING IN FLIGHT	BZ	BUZZARD
[Purple Line]	TRANSECT 2	[Arrow]	FLYING	C.	CARRION CROW
[Green Line]	TRANSECT 3	[Arrow]		CD	COLLARED DOVE
[Pink Line]	TRANSECT 4	[Arrow]		CH	CHAFFINCH
[Yellow Line]	TRANSECT 5	[Arrow]		CT	COAL TIT
[Blue Line]	TRANSECT 6	[Arrow]		D.	DUNNOCK
[Green Line]	TRANSECT 7	[Arrow]		FF	FIELDFARE
[Orange Line]	TRANSECT 8	[Arrow]		G.	GREEN WOODPECKER
[Red Line]	TRANSECT 9	[Arrow]		B.	BLACKBIRD
		[Arrow]		BT	BLUE TIT
		[Arrow]		BH	BLACK-HEADED GULL
		[Arrow]		GC	GOLDCREST
		[Arrow]		GL	GREY WAGTAIL
		[Arrow]		GO	GOLDFINCH
		[Arrow]		GS	GREAT SPOTTED WOODPECKER
		[Arrow]		GT	GREAT TIT
		[Arrow]		HG	HERRING GULL
		[Arrow]		HS	HOUSE SPARROW
		[Arrow]		J.	JAY
		[Arrow]		JD	JACKDAW
		[Arrow]		K.	KESTREL
		[Arrow]		LB	LESSER BLACK-BACKED GULL
		[Arrow]		LT	LONG-TAILED TIT
		[Arrow]		M.	MISTLE THRUSH
		[Arrow]		MA	MALLARD
		[Arrow]		MG	MAGPIE
		[Arrow]		MP	MEADOW PIPIT
		[Arrow]		PW	PIED WAGTAIL
		[Arrow]		PH	PHEASANT
		[Arrow]		R.	ROBIN
		[Arrow]		RE	REDWING
		[Arrow]		RO	ROOK
		[Arrow]		S.	SKYLARK
		[Arrow]		SD	STOCK DOVE
		[Arrow]		SG	STARLING
		[Arrow]		SH	SPARROWHAWK
		[Arrow]		ST	SONG THRUSH
		[Arrow]		WP	WOOD PIGEON
		[Arrow]		WR	WREN
		[Arrow]		Y.	YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514		Drawing Number	
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com		Project	
Description		Client		Gloucestershire COUNTY COUNCIL		Originator	
Description		PUBLISHED		A1		Volume	
Description		Status		Revision		Project	
Description		A1		P03		5214106	
Description		Drawn		Checked		Sheet	
Description		SD		RD		9 of 13	
Description		Reviewed		Authorised		Rev:	
Description		CC		LJ		P03	
Description		Issue Date		01/05/23			
Description		Original Size		Scale		Number	
Description		A3		1:3,000		9 of 13	

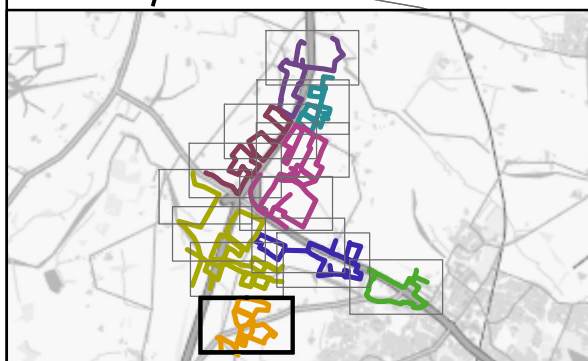
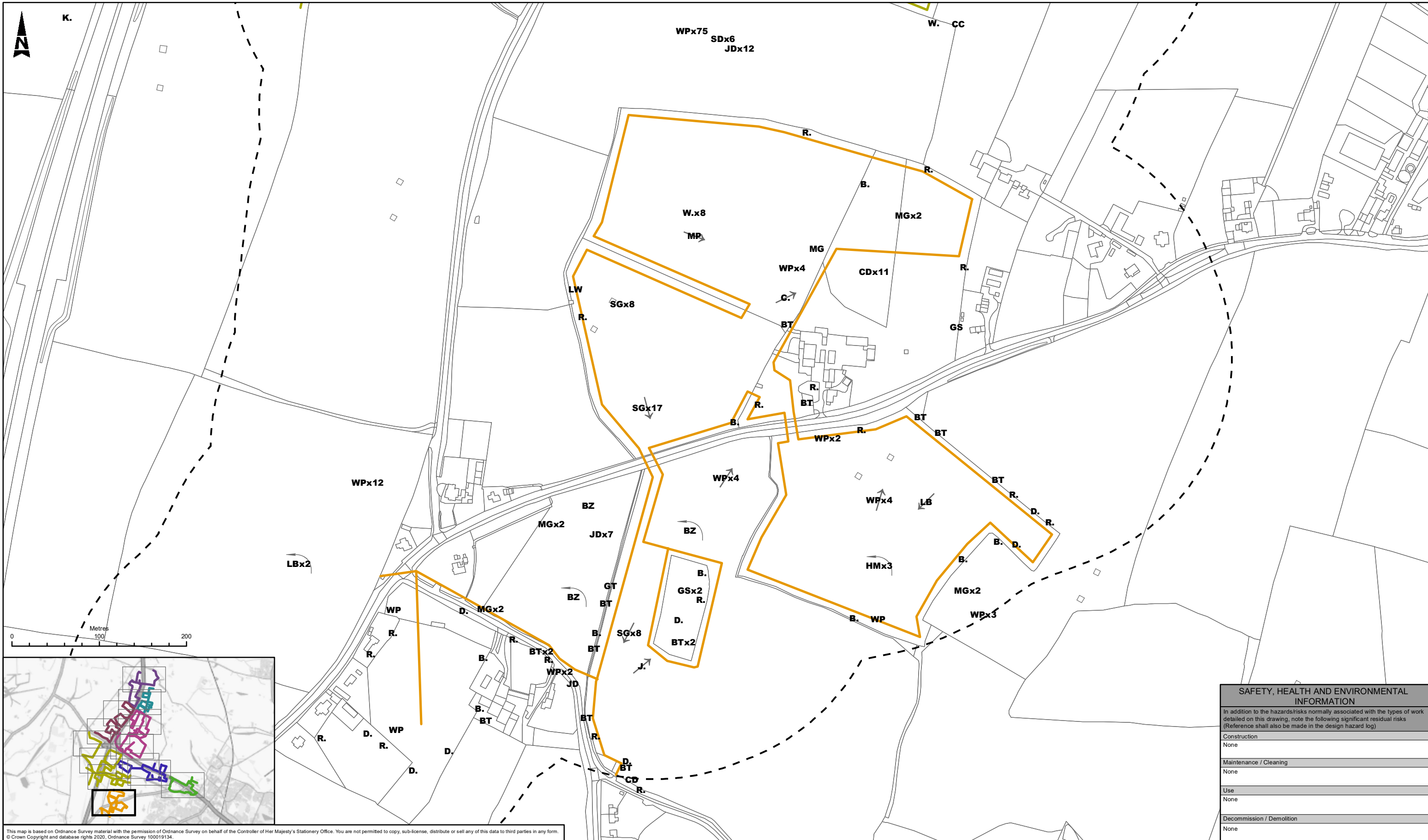


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT		FLYING
	TRANSECT 2	B.	BLACKBIRD	B. T.	BLUE TIT
	TRANSECT 3	B. H.	BLACK-HEADED GULL	B. Z.	BUZZARD
	TRANSECT 4	C.	CARRION CROW	C. H.	CHAFFINCH
	TRANSECT 5	C. T.	COAL TIT	C. J.	JAY
	TRANSECT 6	D.	DUNNOCK	J. D.	JACKDAW
	TRANSECT 7	D. F.	FIELDFARE	K.	KESTREL
	TRANSECT 8	G.	GREEN WOODPECKER	L. B.	LESSER BLACK-BACKED GULL
	TRANSECT 9	G. C.	GOLDCREST	L. T.	LONG-TAILED TIT
		G. L.	GREY WAGTAIL	M.	MISTLE THRUSH
		G. O.	GOLDFINCH	M. A.	MALLARD
		G. S.	GREAT SPOTTED WOODPECKER	M. G.	MAGPIE
		G. T.	GREAT TIT	M. P.	MEADOW PIPIT
		H. G.	HERRING GULL	P. W.	PIED WAGTAIL
		H. S.	HOUSE SPARROW	P. H.	PHEASANT
		J.	JAY	R.	ROBIN
		J. D.	JACKDAW	R. E.	REDWING
		K.	KESTREL	R. O.	ROOK
		L. B.	LESSER BLACK-BACKED GULL	S.	SKYLARK
		L. T.	LONG-TAILED TIT	S. D.	STOCK DOVE
		M.	MISTLE THRUSH	S. G.	STARLING
		M. A.	MALLARD	S. H.	SPARROWHAWK
		M. G.	MAGPIE	S. T.	SONG THRUSH
		M. P.	MEADOW PIPIT	W. P.	WOOD PIGEON
		P. W.	PIED WAGTAIL	W. R.	WREN
		P. H.	PHEASANT	Y.	YELLOWHAMM...
		R.	ROBIN		
		R. E.	REDWING		
		R. O.	ROOK		
		S.	SKYLARK		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
							PUBLISHED
							A1
Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 Copyright © Atkins Limited (2023) www.atkinsglobal.com							M5 Junction 10 Improvements Scheme
							FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019
Description		Drawing Number		Project		Originator	
PUBLISHED		A1		GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000022	
Status		Scale		Project Ref		Sheet	
A1		1:3,000		5214106		10 of 13	
Revision		Project		Rev		P03	
P03		5214106		P03			

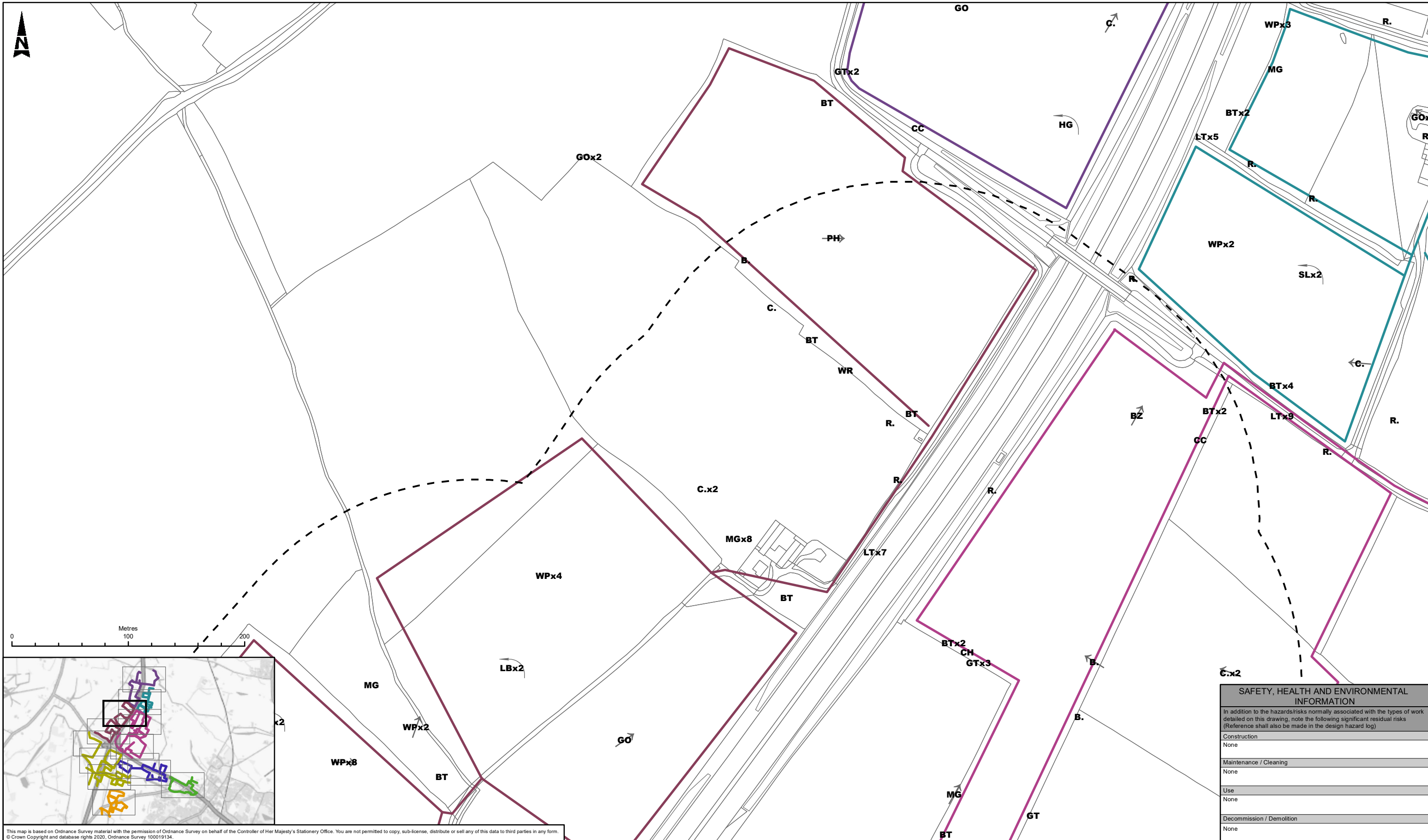


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMM...

Description		Drawing Suitability	Status	Project Title														
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme														
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
PUBLISHED						01/05/23												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
PUBLISHED						01/05/23												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
PUBLISHED						01/05/23												



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMM...

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED		SD	RD	CC	LJ	01/05/23	

Drawing Suitability: **PUBLISHED**

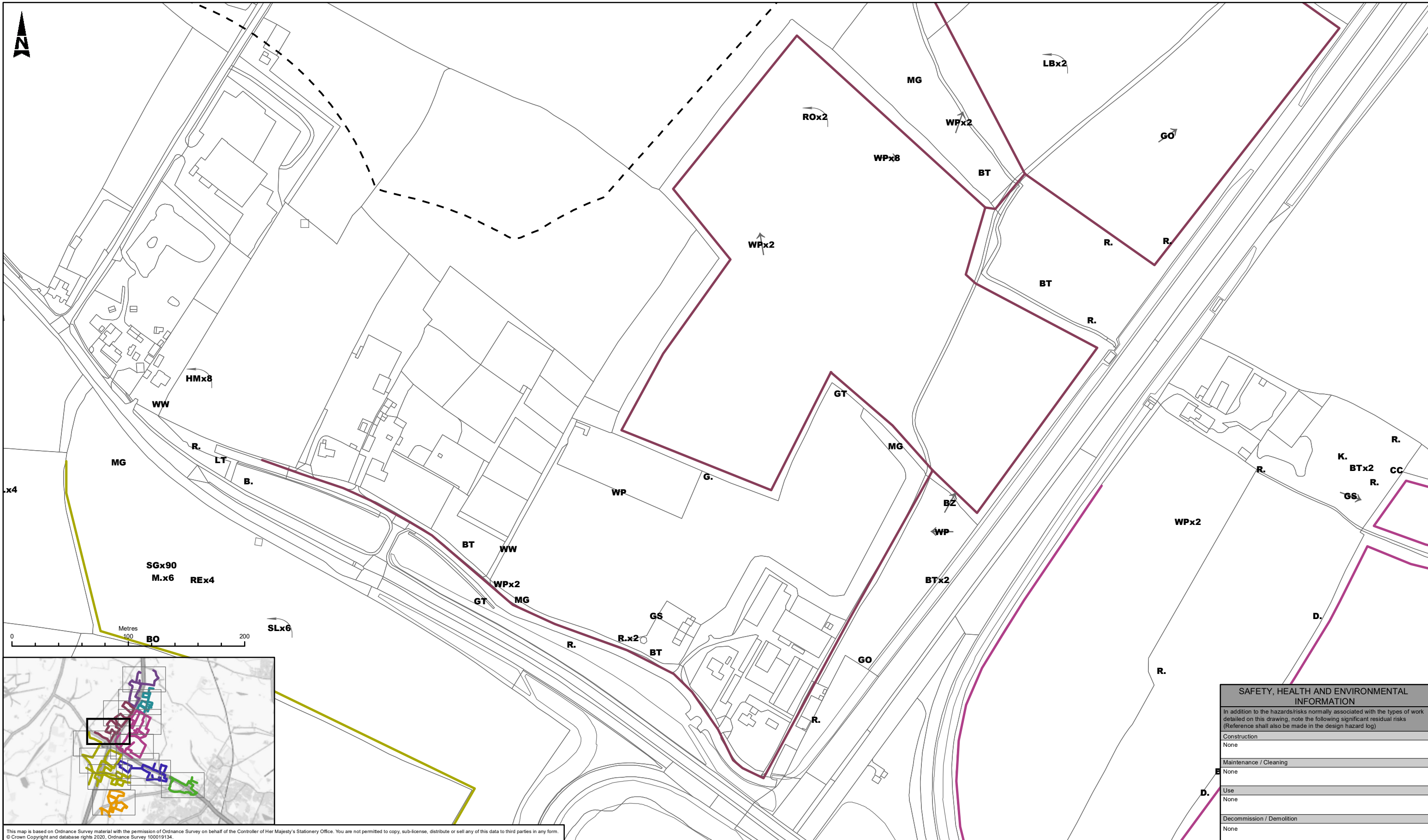
Status: **A1**

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Client: **Gloucestershire COUNTY COUNCIL**

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000022	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 12 of 13 Rev: P03

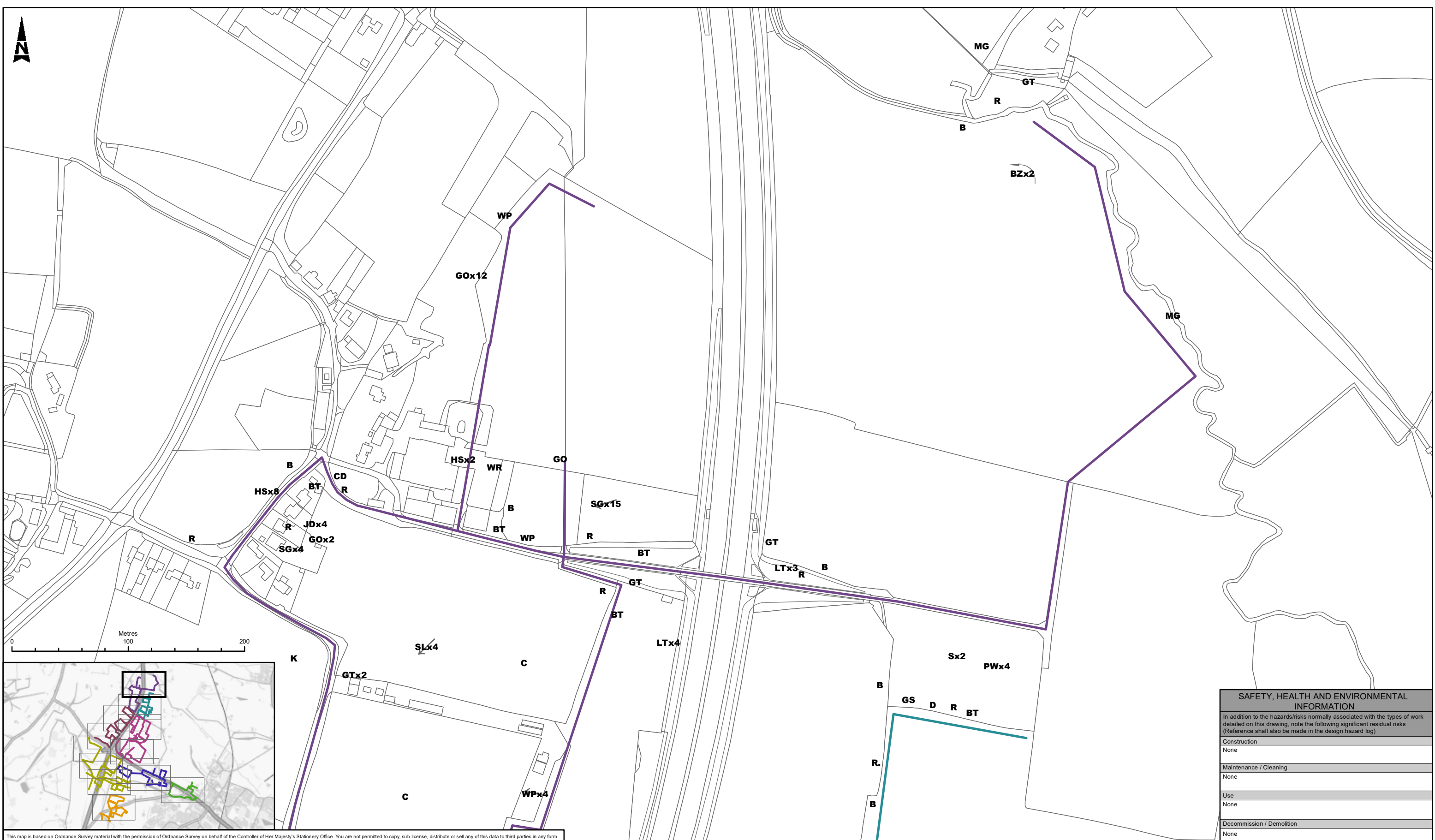


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6			D.	DUNNOCK
	TRANSECT 7			FF	FIELDFARE
	TRANSECT 8			GT	GREAT TIT
	TRANSECT 9			HG	HERRING GULL
		B.	BLACKBIRD	HS	HOUSE SPARROW
		BT	BLUE TIT	G.	GREEN WOODPECKER
		BH	BLACK-HEADED GULL	GC	GOLDCREST
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				MA	MALLARD
				J.	JAY
				LD	LESSER BLACK-BACKED GULL
				MG	MAGPIE
				MP	MEADOW PIPIT
				PH	PHEASANT
				RE	REDWING
				RO	ROOK
				SD	STOCK DOVE
				SG	STARLING
				SH	SPARROWHAWK
				ST	SONG THRUSH
				WP	WOOD PIGEON
				WR	WREN
				Y.	YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-9A WINTERING BIRD SURVEY RESULTS SEPTEMBER 2019	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514		Drawing Number	
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com		Project	
Description		Client		Gloucestershire COUNTY COUNCIL		Originator	
Description		PUBLISHED		GCCM5J10 - ATK - EBD		Volume	
Description		A1		ZZ - GS - GI - 000022		Number	
Description		A1		1:3,000		Scale	
Description		P03		5214106		Project Ref.	
Description		SD		13 of 13		Sheet	
Description		RD		P03		Rev.	
Description		CC					
Description		LJ					
Description		01/05/23					



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HM	HOUSE MARTIN
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

Drawing Suitability: **PUBLISHED**

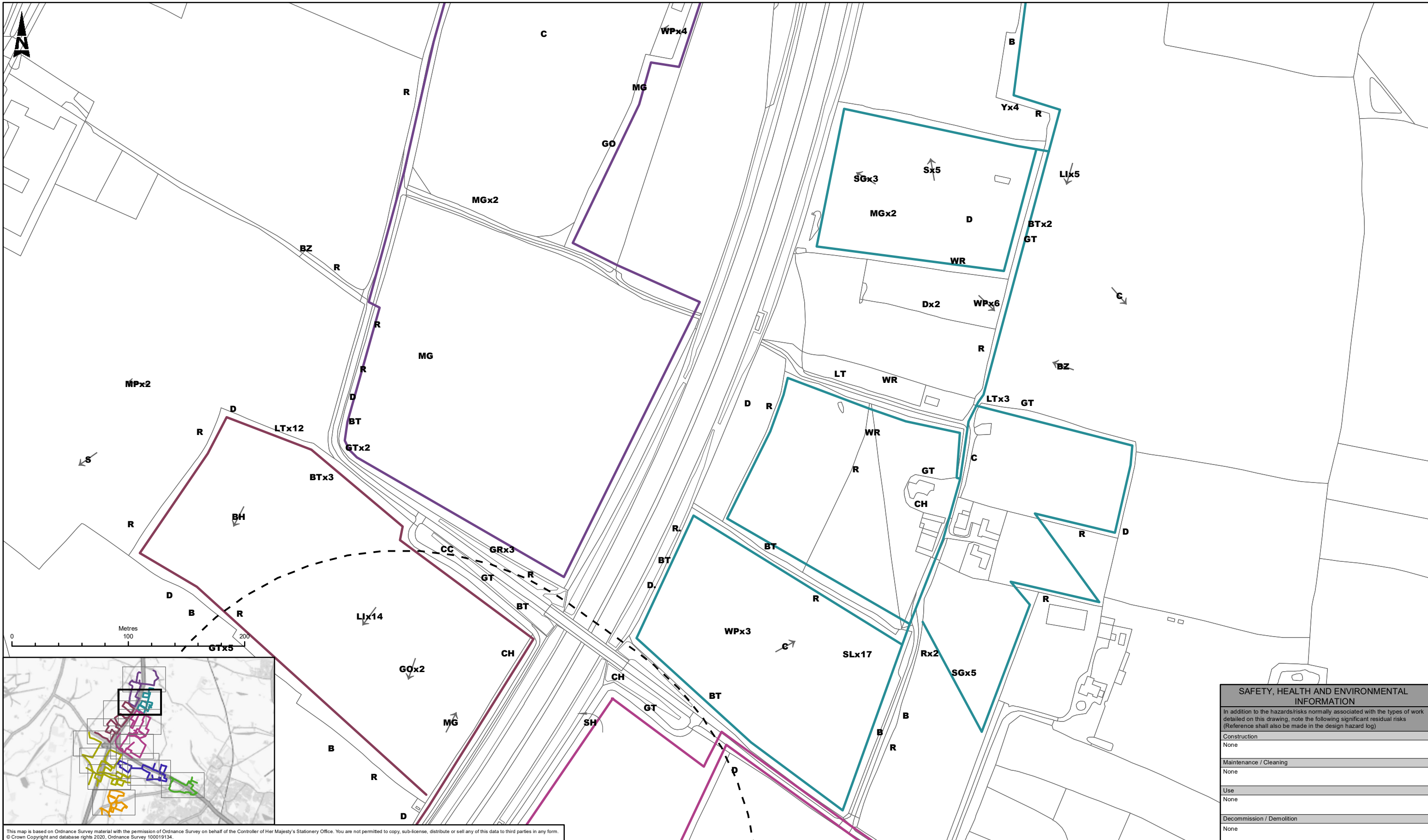
Status: **A1**

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Gloucester
GL1 2TH
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Client: **Gloucestershire COUNTY COUNCIL**

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 00023	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 1 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HM	HOUSE MARTIN
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	

Drawing Suitability: **PUBLISHED**

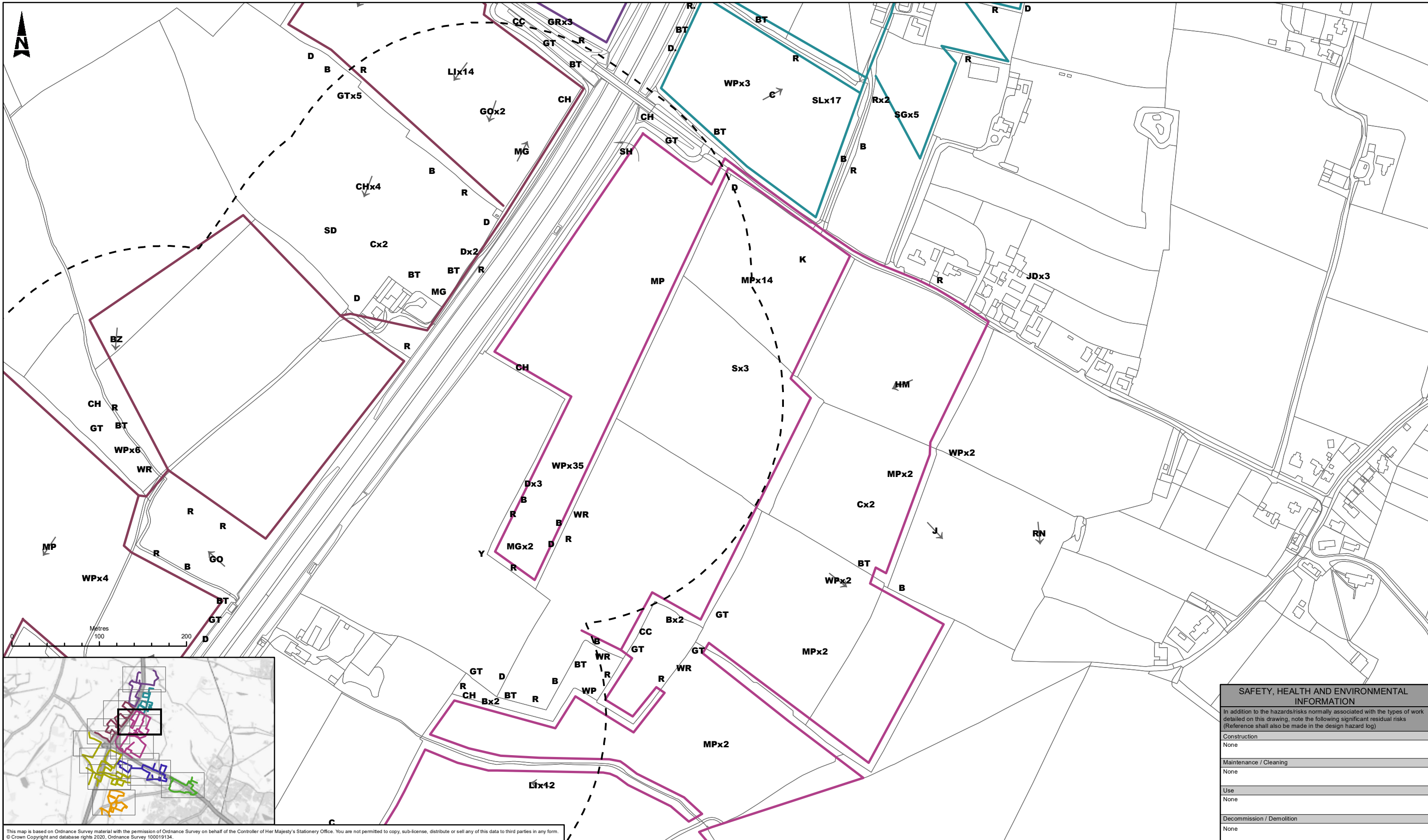
Status: **A1**

ATKINS
Member of the SNC-Lavalin Group
5th Floor, Block 5
Bearland
Gloucester
GL1 2TH
Tel: 08000 514 514
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Client: **Gloucestershire COUNTY COUNCIL**

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000023	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 2 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HM	HOUSE MARTIN
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

Drawing Suitability: **PUBLISHED**

Status: **A1**

Project Title: **M5 Junction 10 Improvements Scheme**

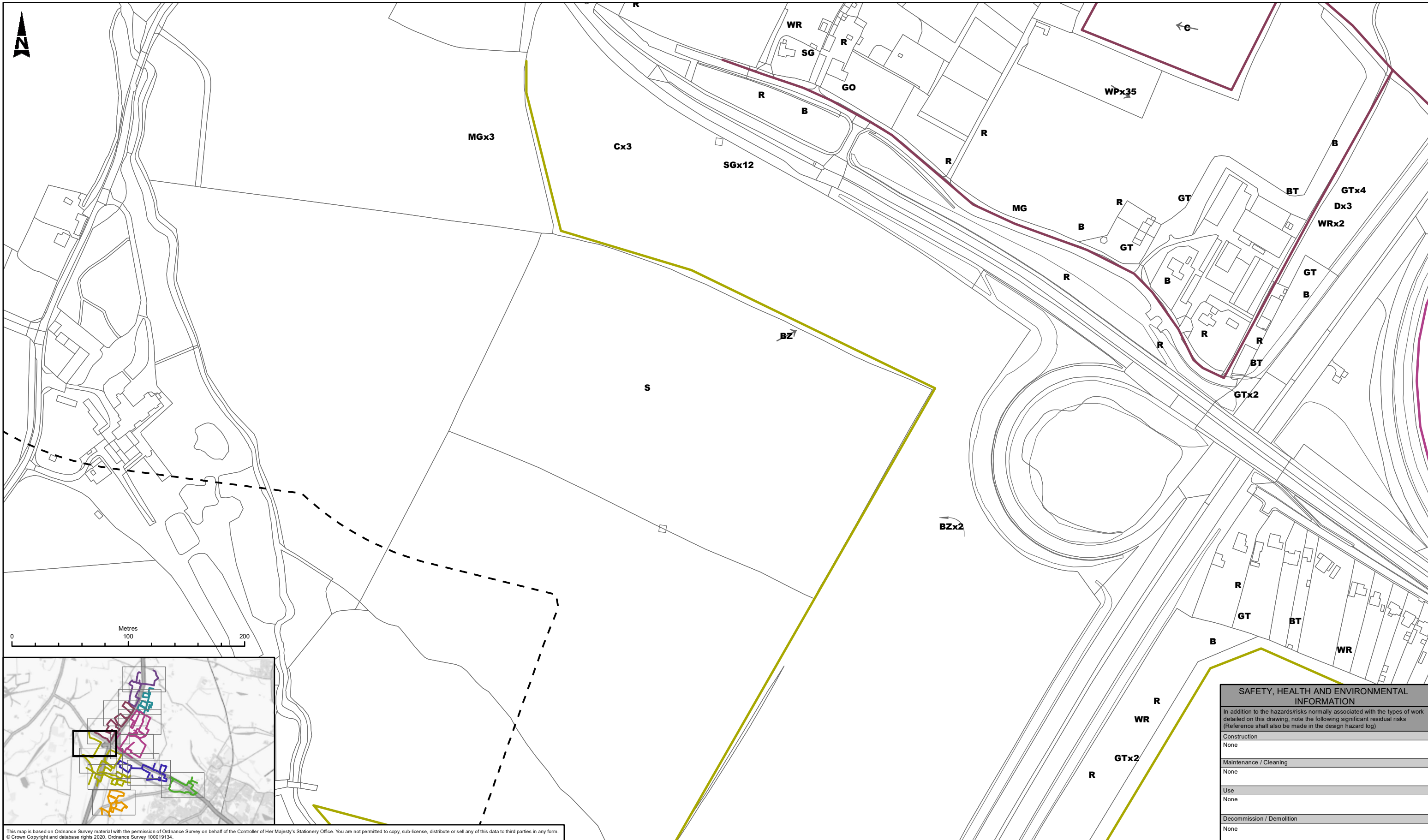
Drawing Title: **FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019**

Drawing Number: **GCCM5J10 - ATK - EBD ZZ - GS - GI - 000023**

Client: **Gloucestershire COUNTY COUNCIL**

Original Size: **A3** | Scale: **1:4,000** | Project Ref: **5214106** | Sheet: **3 of 13** | Rev: **P03**

Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

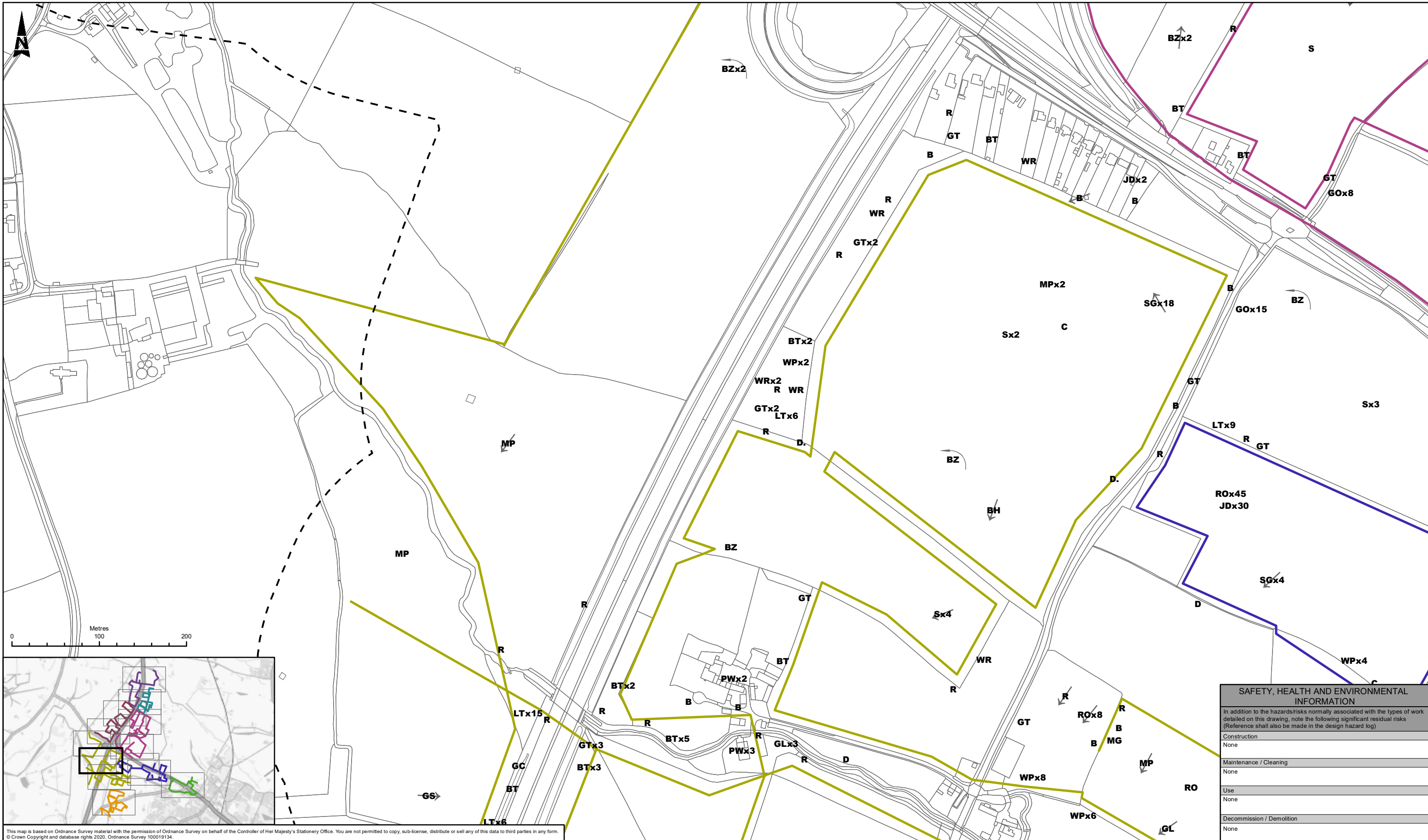


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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	CC	CHIFFCHAFF
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6			D.	DUNNOCK
	TRANSECT 7			FP	FERAL PIGEON
	TRANSECT 8			GC	GOLDCREST
	TRANSECT 9			GL	GREY WAGTAIL
		GO	GOLDFINCH	GR	GREENFINCH
		GS	GREAT SPOTTED WOODPECKER	GT	GREAT TIT
		HM	HOUSE MARTIN	HS	HOUSE SPARROW
		J.	JAY	JD	JACKDAW
		K.	KESTREL	KG	KINGFISHER
		LB	LESSER BLACK-BACKED GULL	LI	LINNET
		LT	LONG-TAILED TIT	MA	MALLARD
		MG	MAGPIE	MP	MEADOW PIPIT
		MA	MALLARD	PW	PIED WAGTAIL
		RE	REDWING	R.	ROBIN
		RN	RAVEN	RO	ROOK
		S.	SKYLARK	SC	STONECHAT
		SD	STOCK DOVE	SG	STARLING
		SH	SPARROWHAWK	SL	SWALLOW
		ST	SONG THRUSH	ST	SONG THRUSH
		WP	WOOD PIGEON	WR	WREN
		Y.	YELLOWHAMMER		

Description		Drawing Suitability		Status		Project Title	
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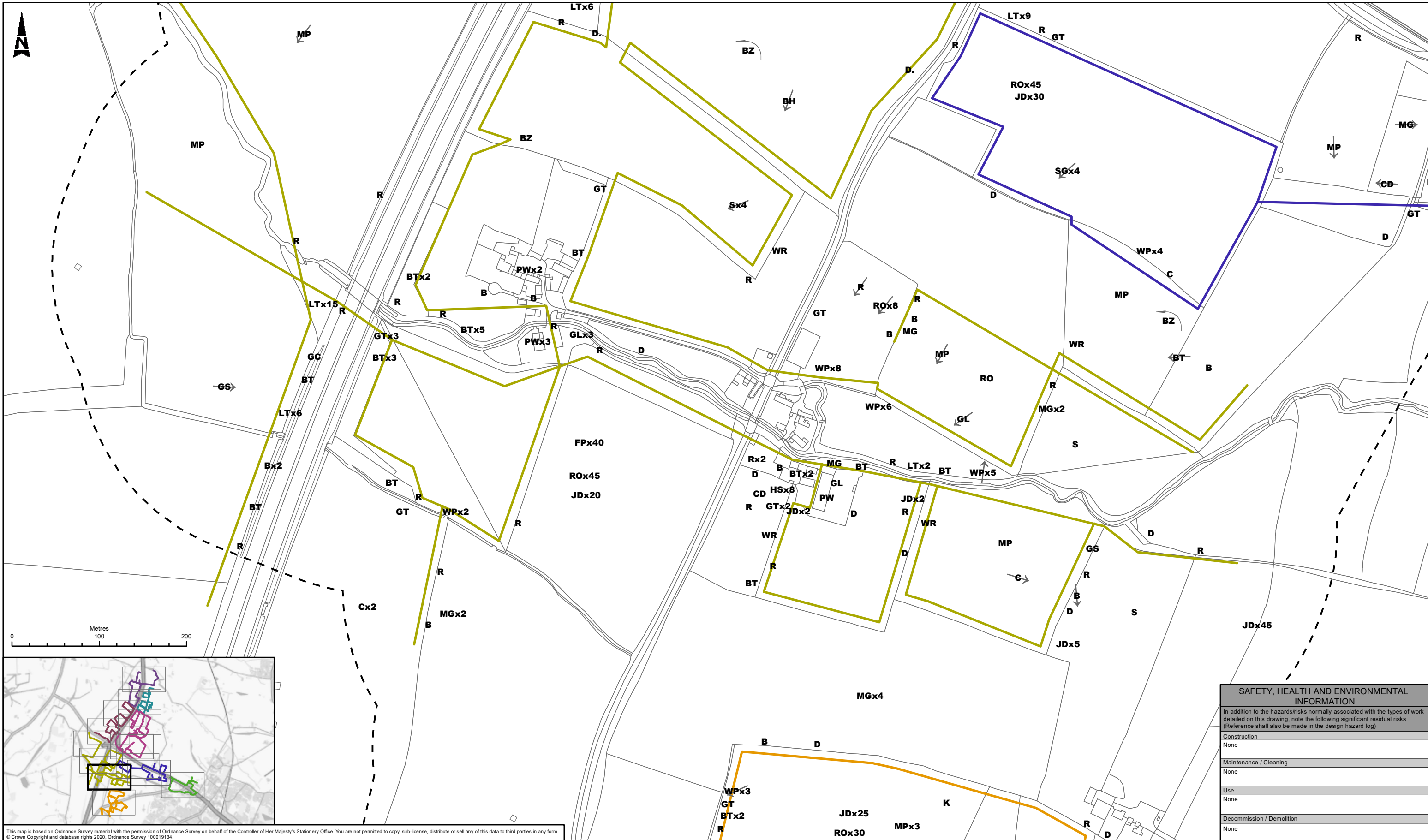


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	TRANSECT 9
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HS	HOUSE SPARROW
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K.	KESTREL
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LI	LINNET
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MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
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SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

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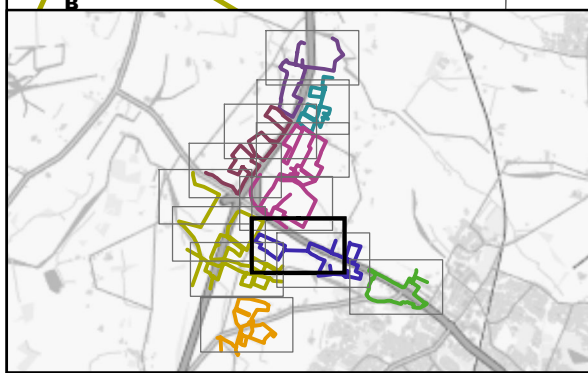
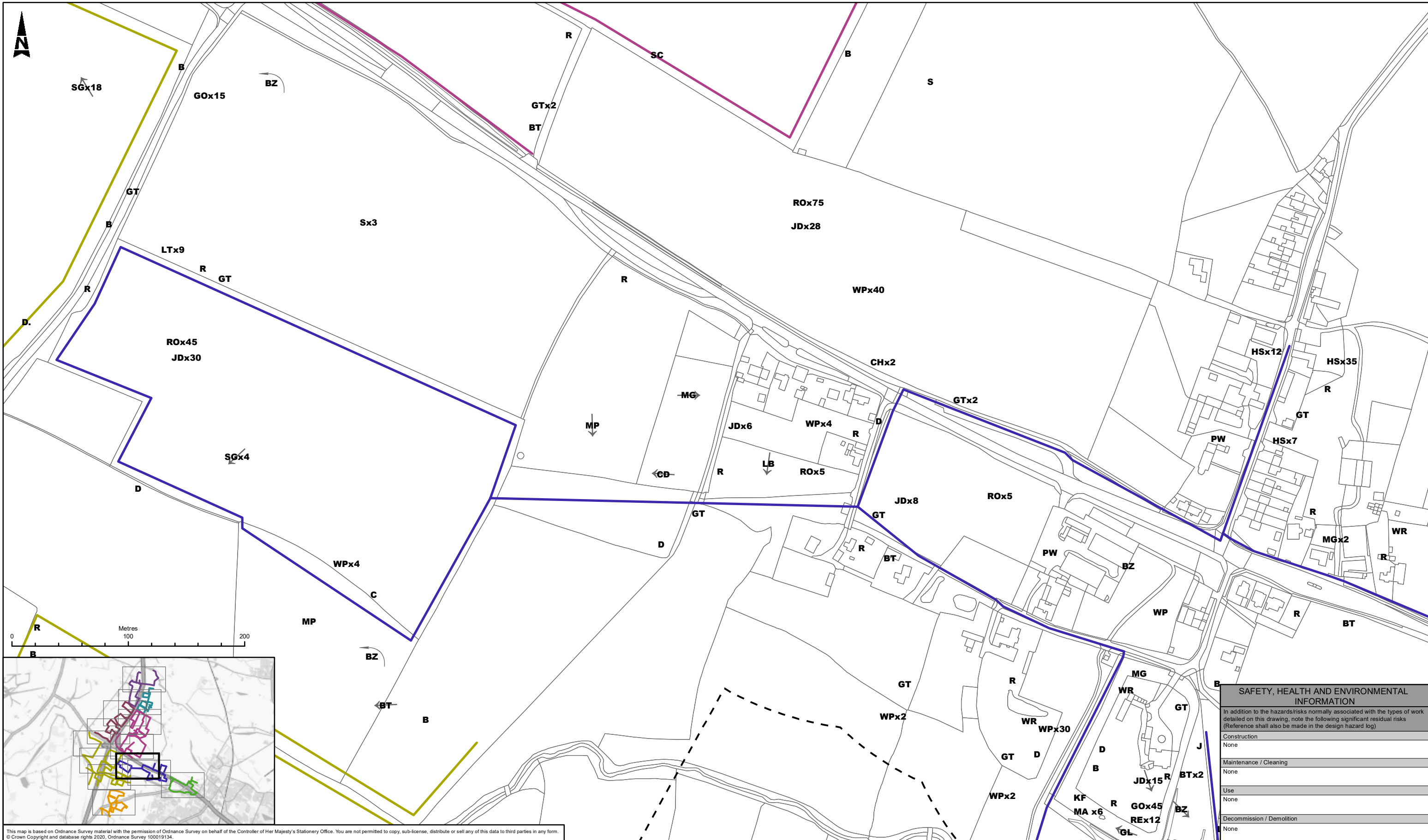


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PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Title		Project		Originator	
PUBLISHED		FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019		GCCM5J10 - ATK - EBD		Shire Hall, Block 5	
Description		Client		Project Ref		Volume	
PUBLISHED		Gloucestershire COUNTY COUNCIL		5214106		GL 1 2TH	
Description		Original Size		Scale		Sheet	
PUBLISHED		A3		1:4,000		7 of 13	
Description		Issue Date		Rev		Number	
PUBLISHED		01/05/23		P03		P03	



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

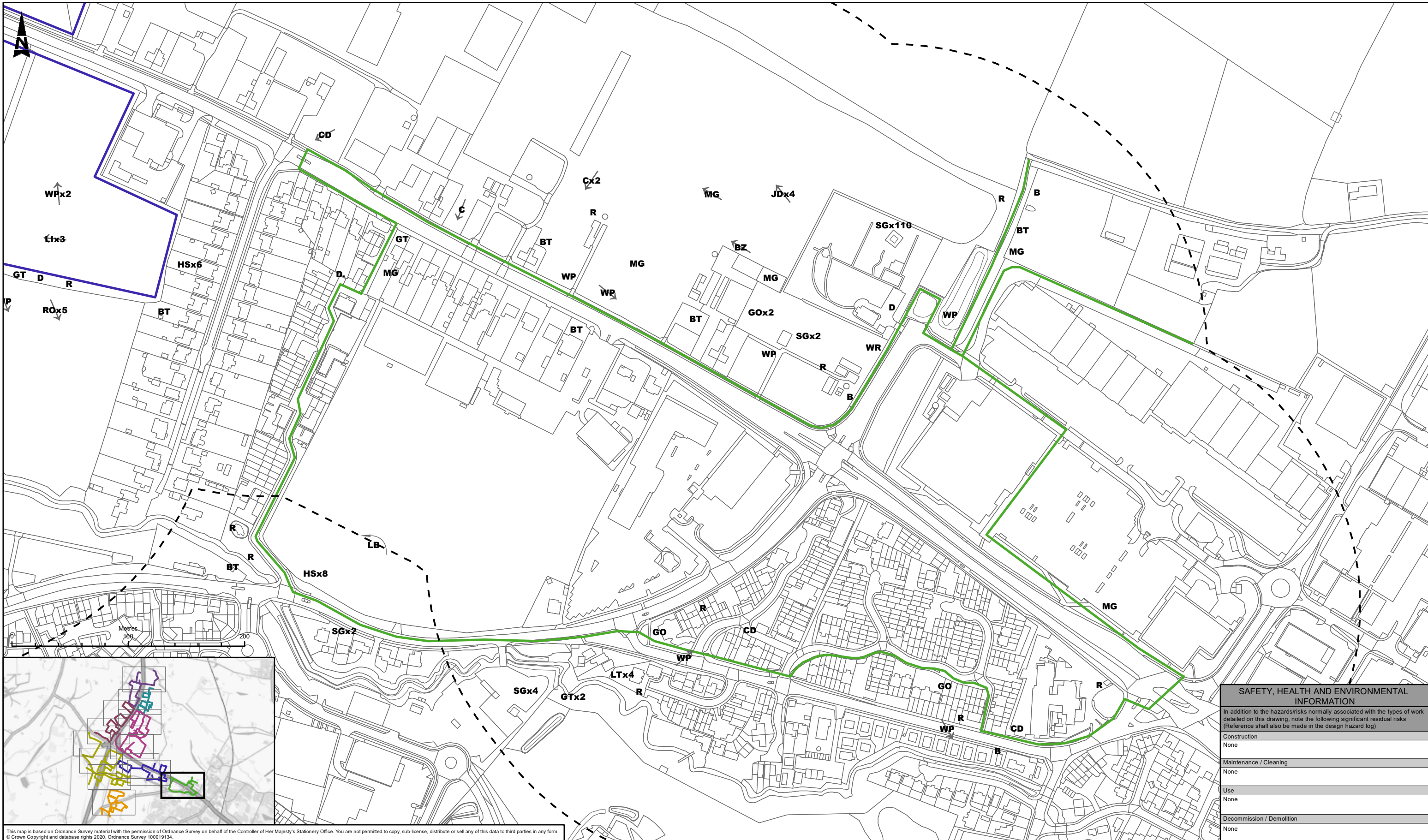
LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HM	HOUSE MARTIN
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
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RN	RAVEN
RO	ROOK
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SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Gloucester
GL1 2TH
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www.atkinsglobal.com

Gloucestershire
COUNTY COUNCIL

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000023 Volume: 8 of 13
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	8 of 13
Rev	P03



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Maintenance / Cleaning	None
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Decommission / Demolition	None

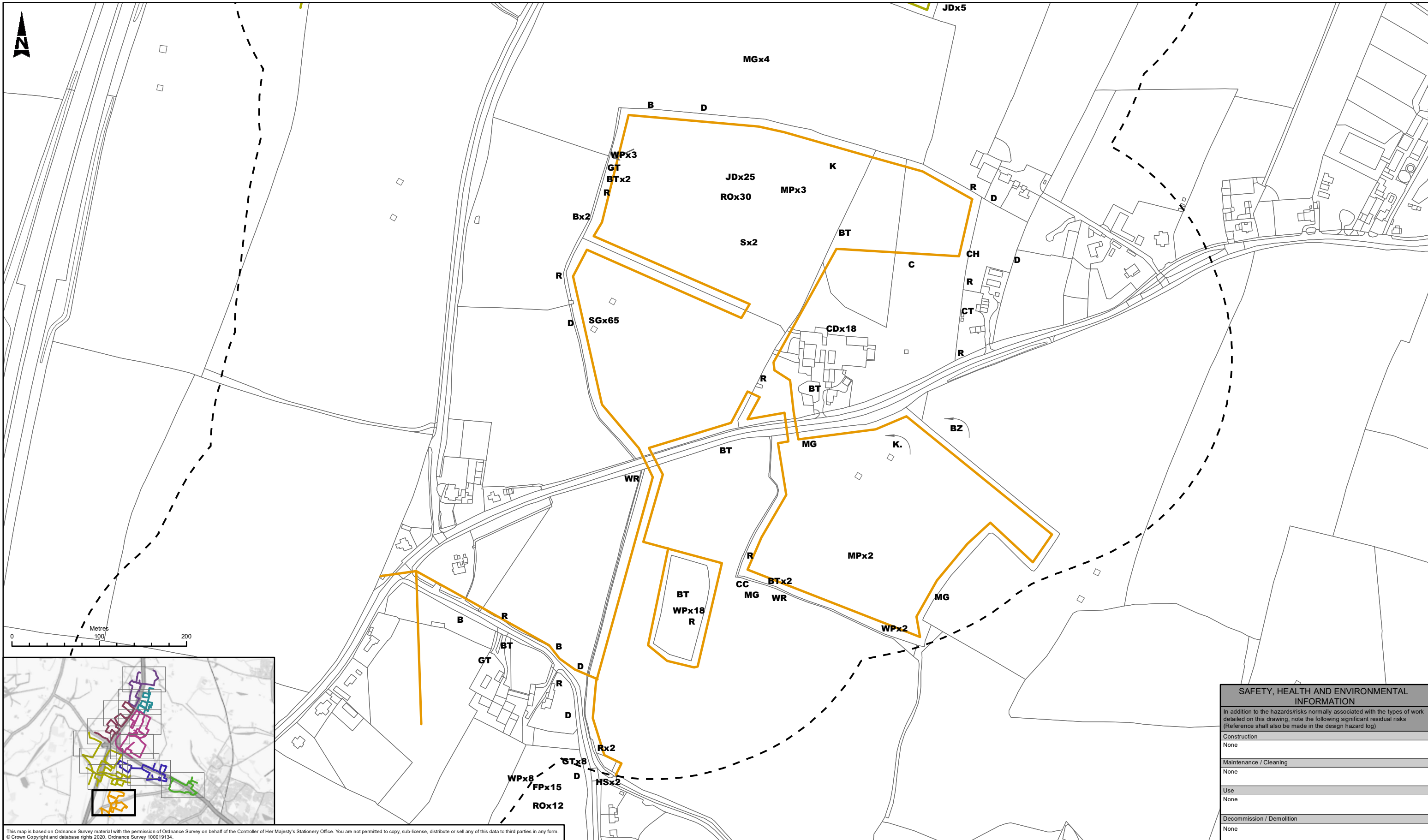
LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Dashed Box]	250M STUDY AREA	[Arrow]	FORAGING IN FLIGHT	[Arrow]	FLYING
[Purple Line]	TRANSECT 2	[B]	BLACKBIRD	[BZ]	BUZZARD
[Teal Line]	TRANSECT 3	[BT]	BLUE TIT	[CC]	CHIFFCHAFF
[Pink Line]	TRANSECT 4	[BH]	BLACK-HEADED GULL	[CD]	COLLARED DOVE
[Yellow Line]	TRANSECT 5	[CH]	CHAFFINCH	[CH]	CHAFFINCH
[Blue Line]	TRANSECT 6	[CT]	COAL TIT	[CT]	COAL TIT
[Green Line]	TRANSECT 7	[D]	DUNNOCK	[D]	DUNNOCK
[Orange Line]	TRANSECT 8	[FP]	FERAL PIGEON	[FP]	FERAL PIGEON
[Red Line]	TRANSECT 9	[GC]	GOLDCREST	[GC]	GOLDCREST
		[GL]	GREY WAGTAIL	[GL]	GREY WAGTAIL
		[GO]	GOLDFINCH	[GO]	GOLDFINCH
		[GR]	GREENFINCH	[GR]	GREENFINCH
		[GS]	GREAT SPOTTED WOODPECKER	[GS]	GREAT SPOTTED WOODPECKER
		[GT]	GREAT TIT	[GT]	GREAT TIT
		[HM]	HOUSE MARTIN	[HM]	HOUSE MARTIN
		[HS]	HOUSE SPARROW	[HS]	HOUSE SPARROW
		[J]	JAY	[J]	JAY
		[JD]	JACKDAW	[JD]	JACKDAW
		[K]	KESTREL	[K]	KESTREL
		[KF]	KINGFISHER	[KF]	KINGFISHER
		[LB]	LESSER BLACK-BACKED GULL	[LB]	LESSER BLACK-BACKED GULL
		[LI]	LINNET	[LI]	LINNET
		[LT]	LONG-TAILED TIT	[LT]	LONG-TAILED TIT
		[MA]	MALLARD	[MA]	MALLARD
		[MG]	MAGPIE	[MG]	MAGPIE
		[MP]	MEADOW PIPIT	[MP]	MEADOW PIPIT
		[PW]	PIED WAGTAIL	[PW]	PIED WAGTAIL
		[R]	ROBIN	[R]	ROBIN
		[RE]	REDWING	[RE]	REDWING
		[RN]	RAVEN	[RN]	RAVEN
		[RO]	ROOK	[RO]	ROOK
		[S]	SKYLARK	[S]	SKYLARK
		[SC]	STONECHAT	[SC]	STONECHAT
		[SD]	STOCK DOVE	[SD]	STOCK DOVE
		[SG]	STARLING	[SG]	STARLING
		[SH]	SPARROWHAWK	[SH]	SPARROWHAWK
		[SL]	SWALLOW	[SL]	SWALLOW
		[ST]	SONG THRUSH	[ST]	SONG THRUSH
		[WP]	WOOD PIGEON	[WP]	WOOD PIGEON
		[WR]	WREN	[WR]	WREN
		[Y]	YELLOWHAMMER	[Y]	YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000023	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 10 of 13
			Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
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Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	

Drawing Suitability: **PUBLISHED**

Status: **A1**

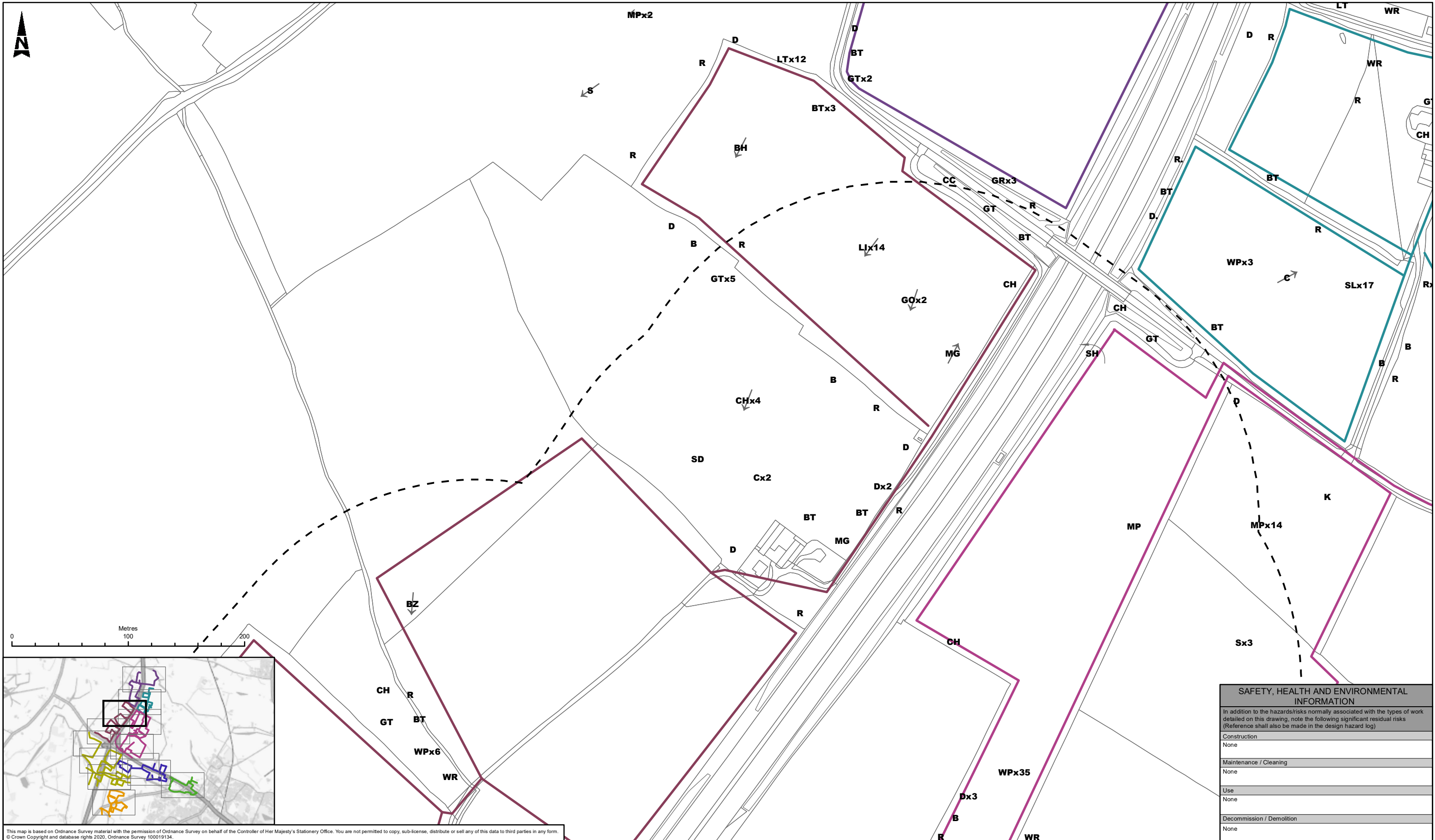
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Tel: 08000 514 514
www.atkinsglobal.com

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Gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9B WINTERING BIRD SURVEY RESULTS OCTOBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000023	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 11 of 13 Rev: P03

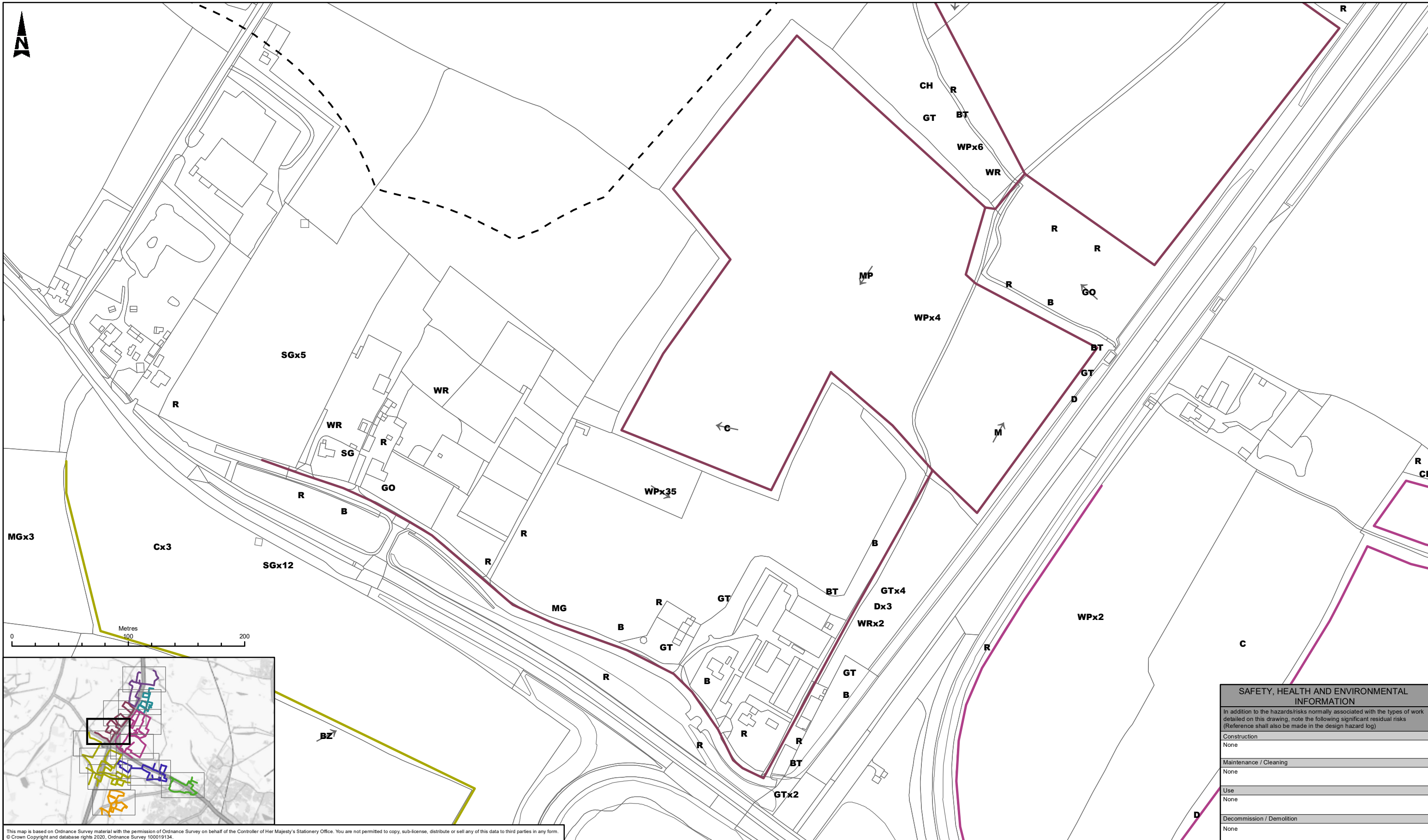


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Description		Drawing Suitability	Status	Project Title														
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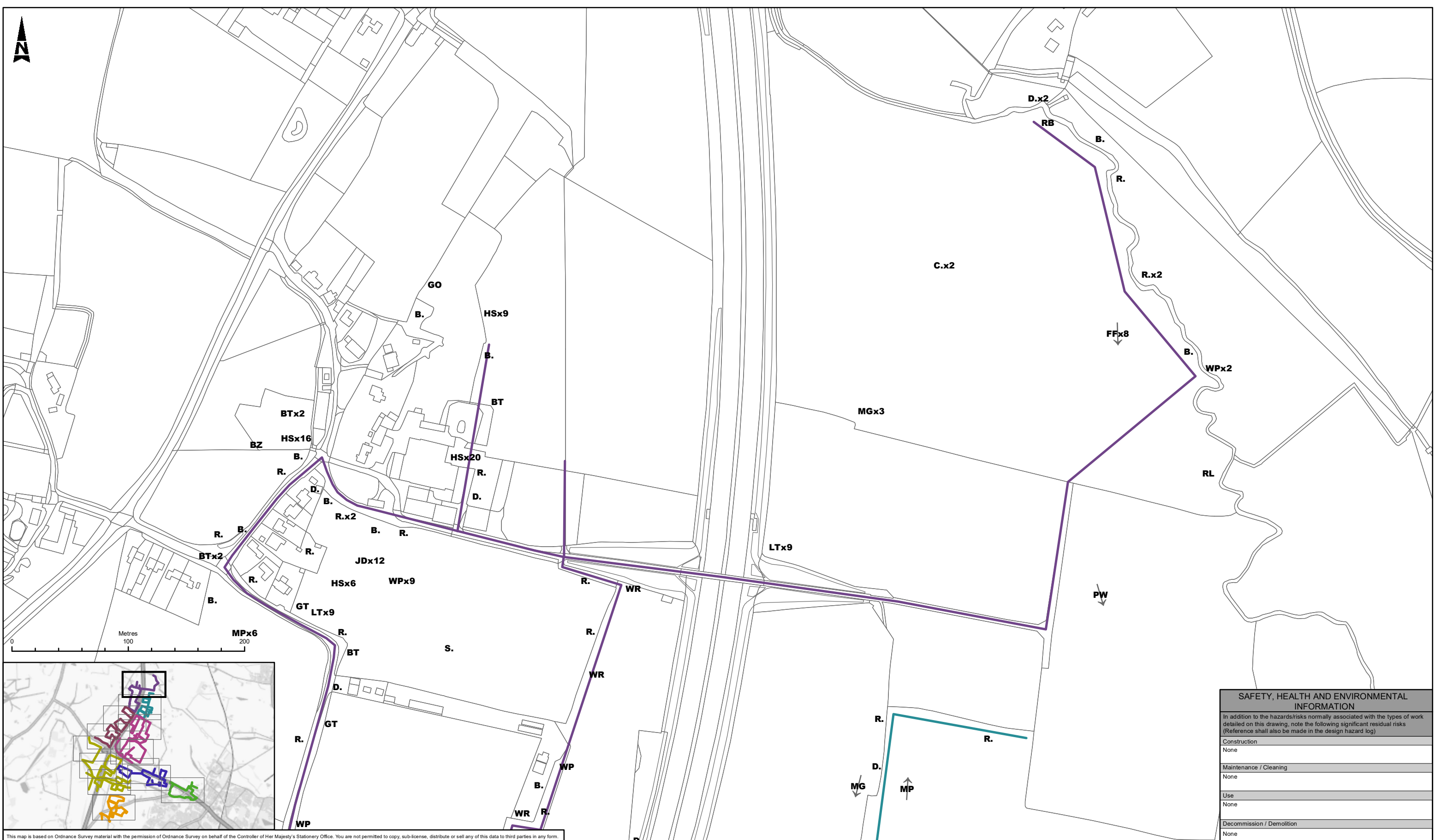


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HM	HOUSE MARTIN
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
R.	ROBIN
RE	REDWING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description		Drawing Suitability	Status	Project Title															
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme															
Description		 Member of the SNC-Lavalin Group		Drawing Title															
Description		 Gloucestershire COUNTY COUNCIL		Project: GCCM5J10 - ATK - EBD Originator: Shire Hall, Bearland, Gloucester, GL1 2TH Volume: ZZ - GS - GI - 000023															
Description		Copyright © Atkins Limited (2023) www.atkinsglobal.com		Drawing Number															
Description		Client		Project: Originator: Volume: Location: Type: Role: Number: Original Size: A3 Scale: 1:3,000 Project Ref: 5214106 Sheet: 13 of 13 Rev: P03															
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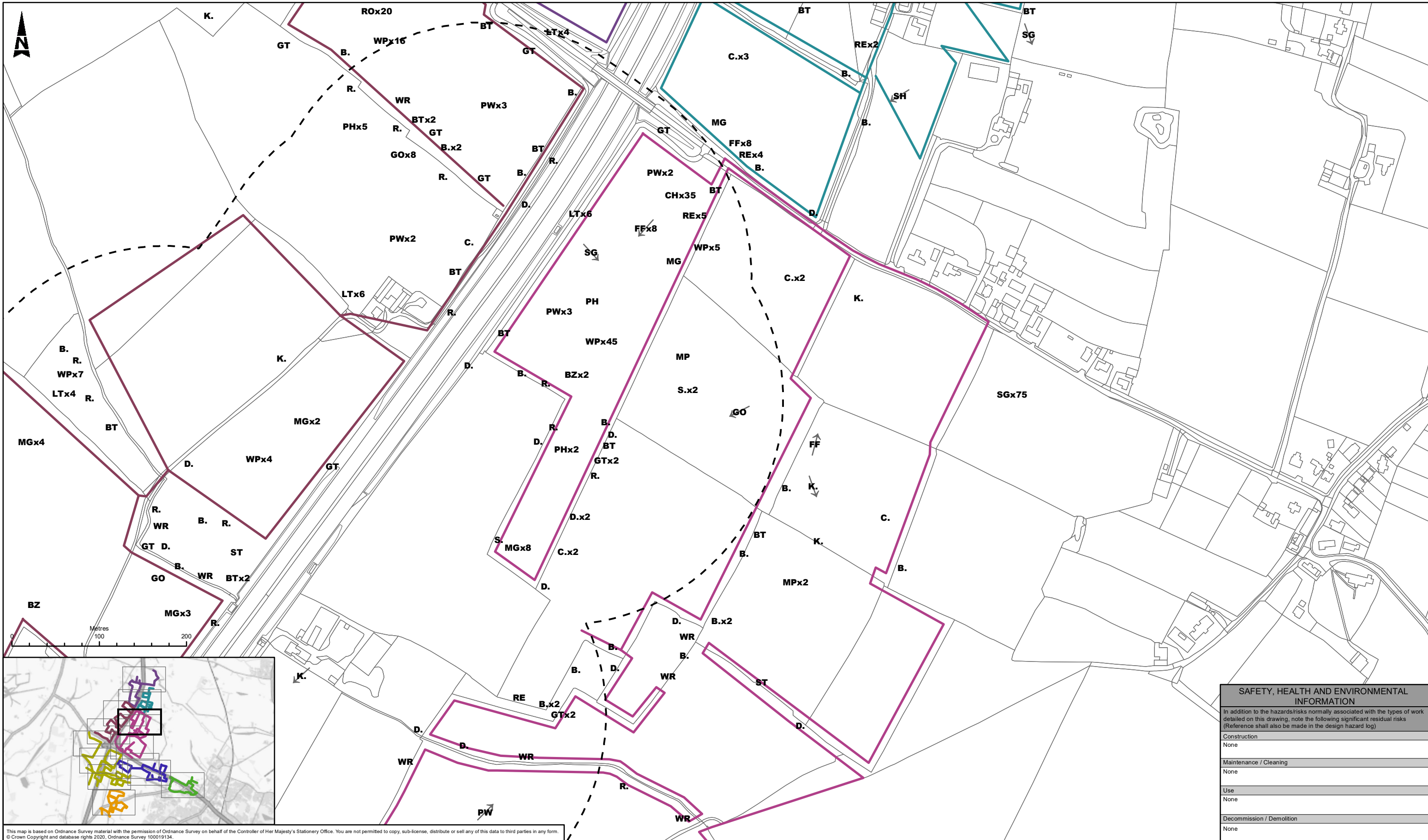


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
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Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6			D.	DUNNOCK
	TRANSECT 7			FF	FIELDFARE
	TRANSECT 8			G.	GREEN WOODPECKER
	TRANSECT 9			B.	BLACKBIRD
		BT	BLUE TIT	GC	GOLDCREST
		BH	BLACK-HEADED GULL	GL	GREY WAGTAIL
				GO	GOLDFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				HG	HERRING GULL
				HS	HOUSE SPARROW
		J.	JAY	J.D	JACKDAW
		K.	KESTREL	LB	LESSER BLACK-BACKED GULL
		LT	LONG-TAILED TIT	MA	MALLARD
		M.	MISTLE THRUSH	MG	MAGPIE
		MP	Meadow Pipit	MP	MEADOW PIPIT
		SD	STOCK DOVE	PW	PIED WAGTAIL
		SG	STARLING	PH	PHEASANT
		SH	SPARROWHAWK	R.	ROBIN
		ST	SONG THRUSH	RE	REDWING
		WP	WOOD PIGEON	RO	ROOK
		WR	WREN	S.	SKYLARK
		Y.	YELLOWHAMMER		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvements Scheme
PUBLISHED							
Description		ATKINS		A1		Drawing Title	
Member of the SNC-Lavalin Group		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH				FIGURE 7-9C WINTERING BIRD SURVEY RESULTS NOVEMBER 2019	
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com		Drawing Number	
Description		Client		Gloucestershire COUNTY COUNCIL		Project Originator Volume	
Description		GCM5J10 - ATK - EBD		ZZ - GS - GI - 000024		Location Type Role Number	
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Description		Issue Date: 01/05/23		Sheet: 1 of 13		Rev: P03	

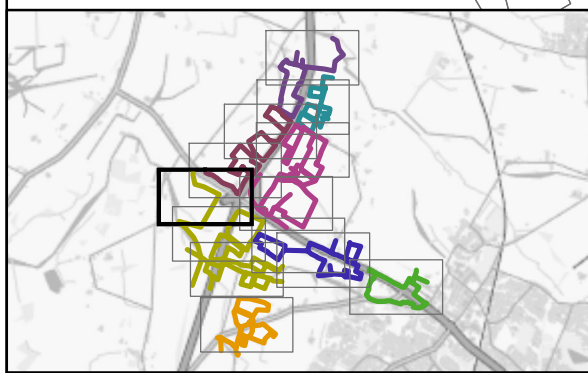
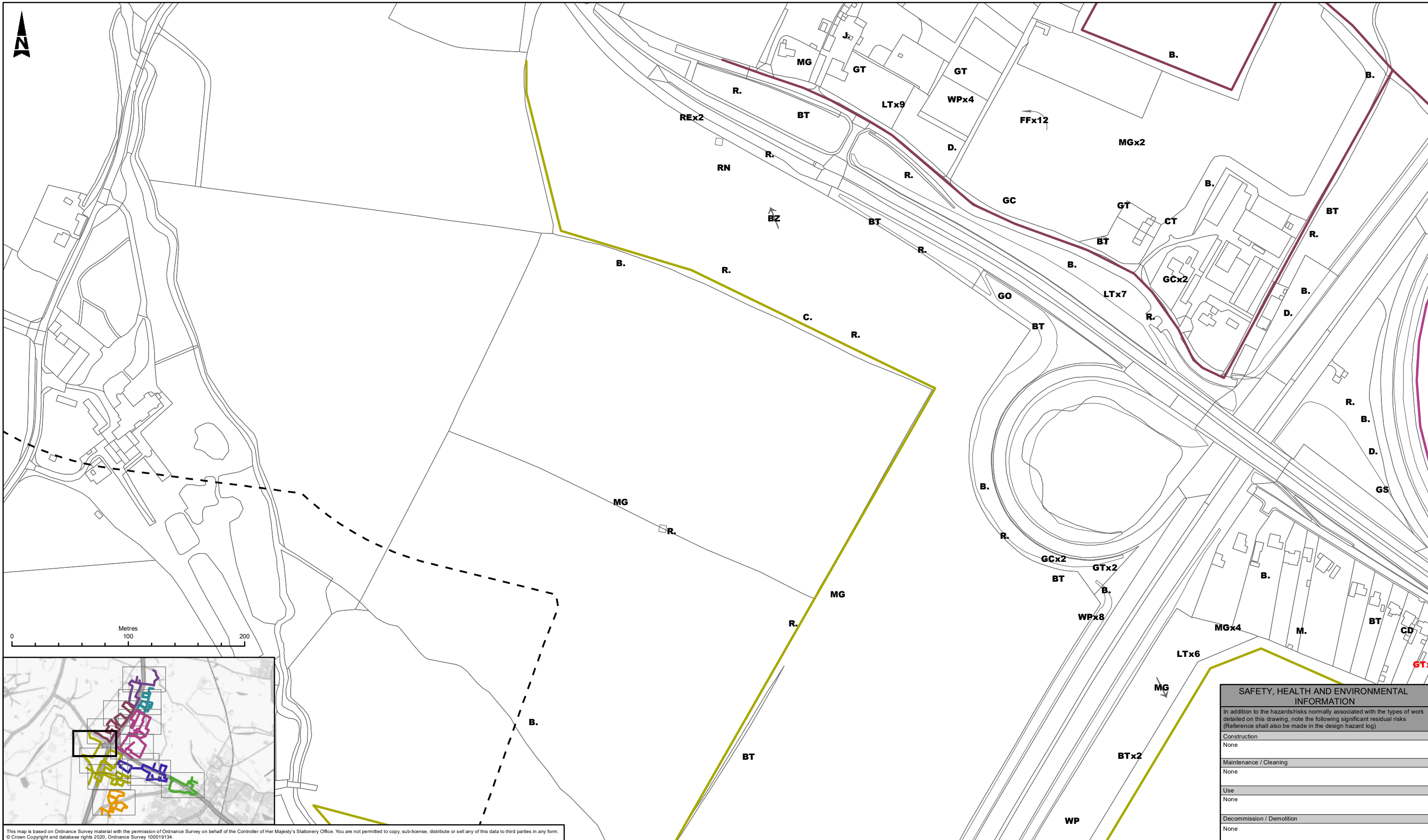


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	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
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BH	BLACK-HEADED GULL
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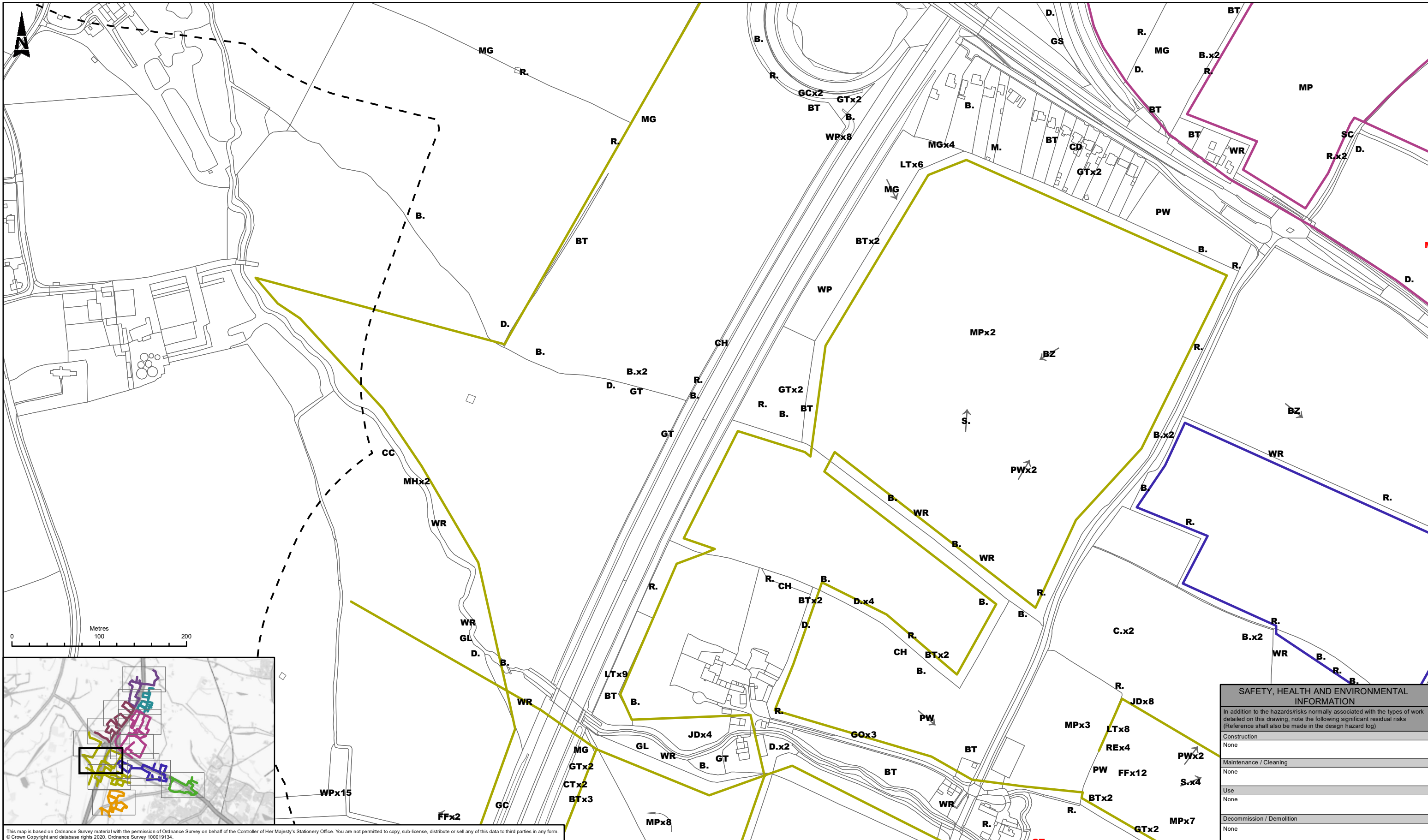


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Construction	None
Maintenance / Cleaning	None
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LEGEND	
250M STUDY AREA	BEHAVIOURS
TRANSECT 2	FORAGING IN FLIGHT
TRANSECT 3	FLYING
TRANSECT 4	SPECIES (BTO CODES)
TRANSECT 5	B. BLACKBIRD
TRANSECT 6	BT BLUE TIT
TRANSECT 7	BH BLACK-HEADED GULL
TRANSECT 8	BZ BUZZARD
TRANSECT 9	C. CARRION CROW
	CD COLLARED DOVE
	CH CHAFFINCH
	CT COAL TIT
	D. DUNNOCK
	FF FIELDFARE
	G. GREEN WOODPECKER
	GC GOLDCREST
	GL GREY WAGTAIL
	GO GOLDFINCH
	GS GREAT SPOTTED WOODPECKER
	GT GREAT TIT
	HG HERRING GULL
	HS HOUSE SPARROW
	J. JAY
	JD JACKDAW
	K. KESTREL
	LB LESSER BLACK-BACKED GULL
	LT LONG-TAILED TIT
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	PH PHEASANT
	R. ROBIN
	RE REDWING
	RO ROOK
	S. SKYLARK
	SD STOCK DOVE
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Description		Drawing Suitability	Status	Project Title																
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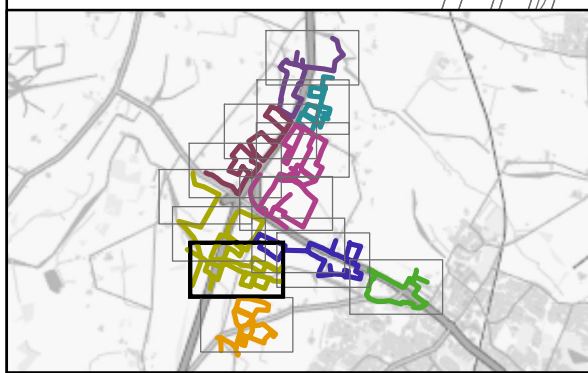
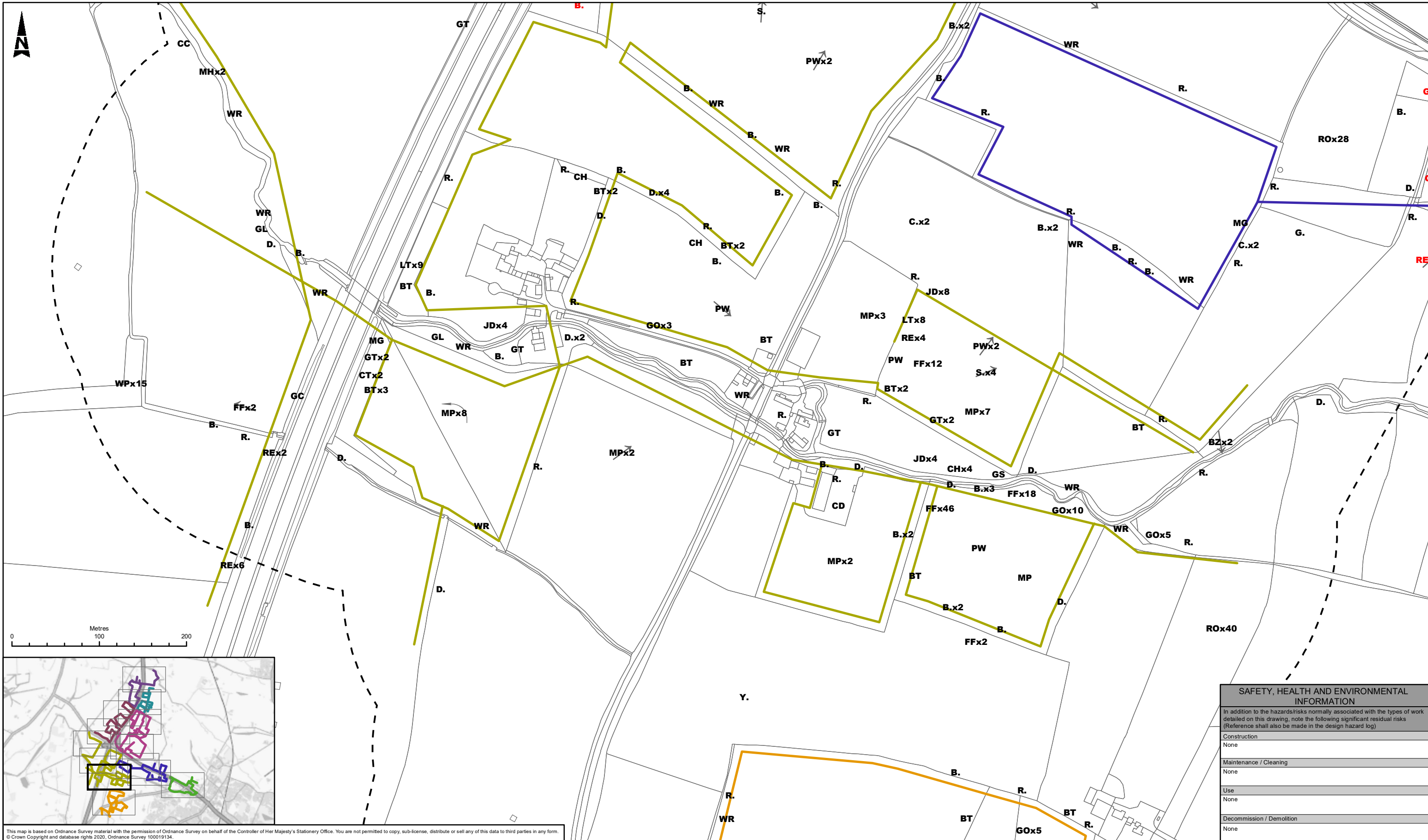


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LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
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Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Member of the SNC-Lavalin Group		5th Floor, Block 5 Shire Hall Bearland Gloucester GL 1 2TH		DRAWING TITLE	
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com		FIGURE 7-9C WINTERING BIRD SURVEY RESULTS NOVEMBER 2019	
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Description		Project		Originator		Volume	
PUBLISHED		ZZ - GS - GI - 000024		GCCM5J10 - ATK - EBD		GCM5J10 - ATK - EBD	
Status		Location		Type		Number	
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Revision		Project Ref.		Sheet		Rev.	
P03		5197035		6 of 13		P03	
Drawn		Issue Date		Issue Date		Issue Date	
SD		01/05/23		01/05/23		01/05/23	
Checked		Reviewed		Reviewed		Reviewed	
RD		CC		LJ		LJ	
Reviewed		Authorised		Authorised		Authorised	
CC		LJ		LJ		LJ	



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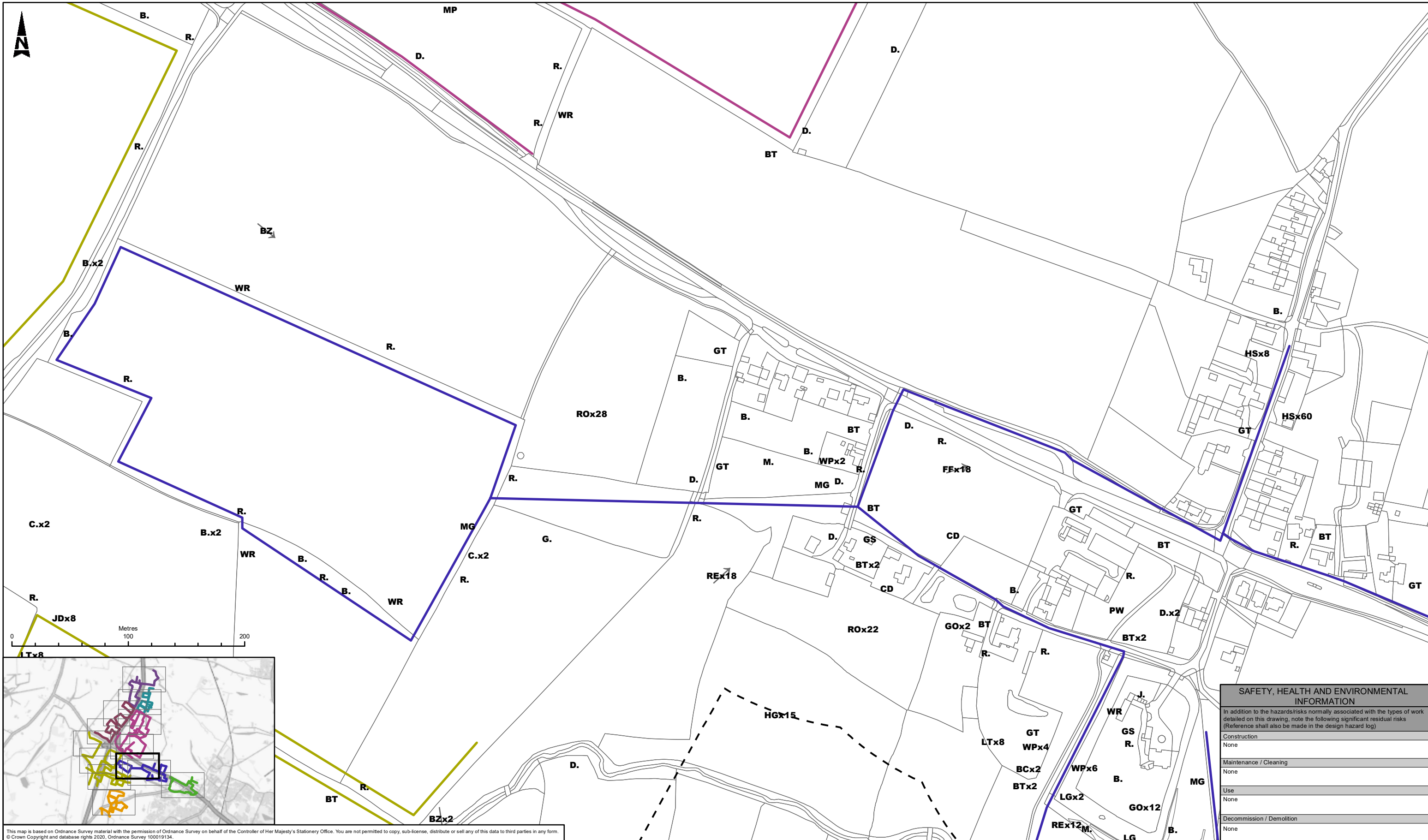
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TRANSECT 8	
TRANSECT 9	

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 Gloucestershire COUNTY COUNCIL		Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000024 Volume: 7 of 13	
Original Size: A3	Scale: 1:4,000	Project Ref: 5197035	Sheet: 7 of 13

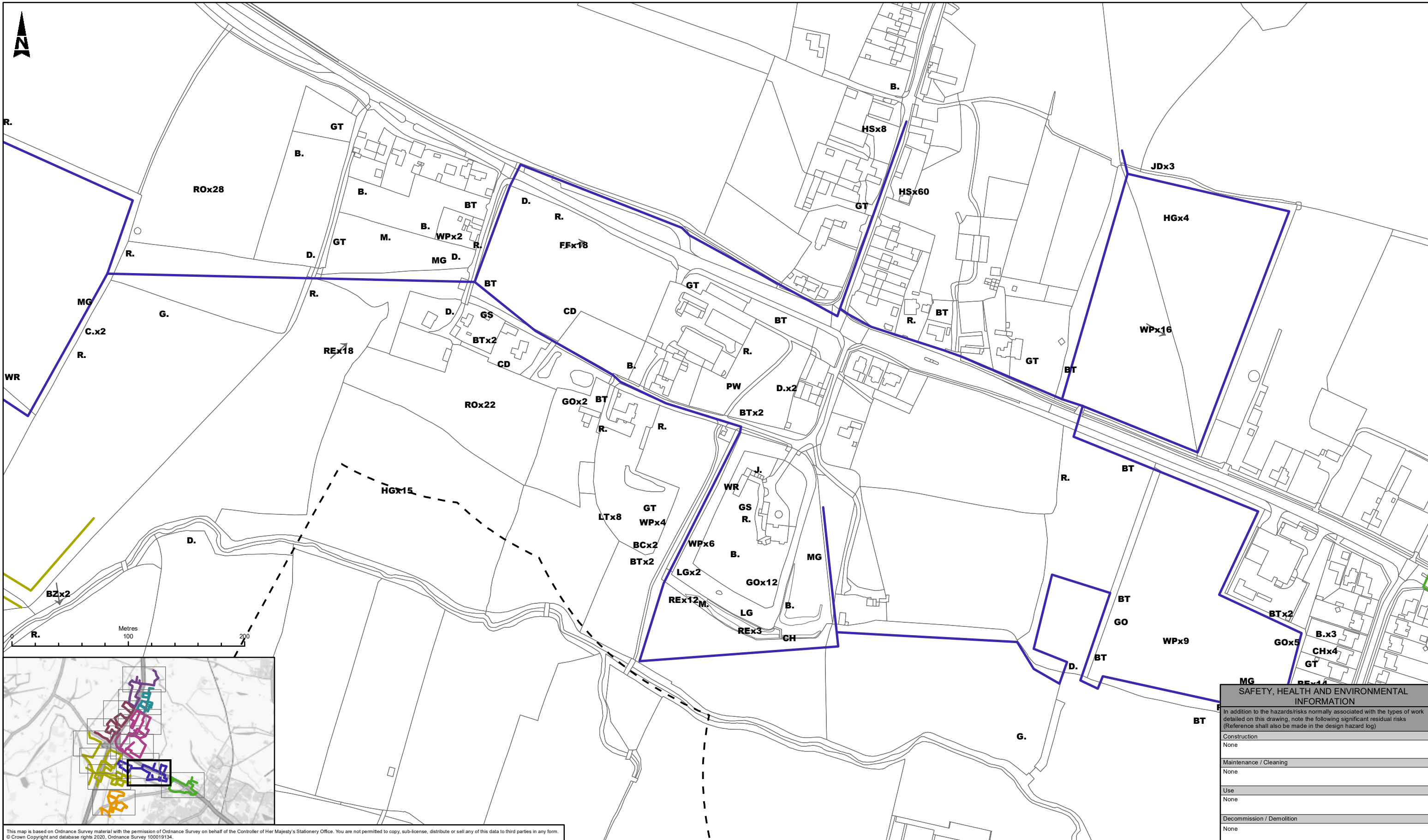


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Description		Drawing Suitability	Status	Project Title														
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme														
<table border="1"> <tr> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 Copyright © Atkins Limited (2023) www.atkinsglobal.com		
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
PUBLISHED						01/05/23												



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LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6	B.	BLACKBIRD	D.	DUNNOCK
	TRANSECT 7	BT	BLUE TIT	FF	FIELDFARE
	TRANSECT 8	BH	BLACK-HEADED GULL	G.	GREEN WOODPECKER
	TRANSECT 9				
GC	GOLDCREST	J.	JAY	MG	MAGPIE
GL	GREY WAGTAIL	JD	JACKDAW	MP	MEADOW PIPIT
GO	GOLDFINCH	K.	KESTREL	PW	PIED WAGTAIL
GS	GREAT SPOTTED WOODPECKER	LB	LESSER BLACK-BACKED GULL	PH	PHEASANT
GT	GREAT TIT	LT	LONG-TAILED TIT	R.	ROBIN
HG	HERRING GULL	M.	MISTLE THRUSH	RE	REDWING
HS	HOUSE SPARROW	MA	MALLARD	RO	ROOK
		SD	STOCK DOVE	S.	SKYLARK
		SG	STARLING		
		SH	SPARROWHAWK		
		ST	SONG THRUSH		
		WP	WOOD PIGEON		
		WR	WREN		
		Y.	YELLOWHAMMER		

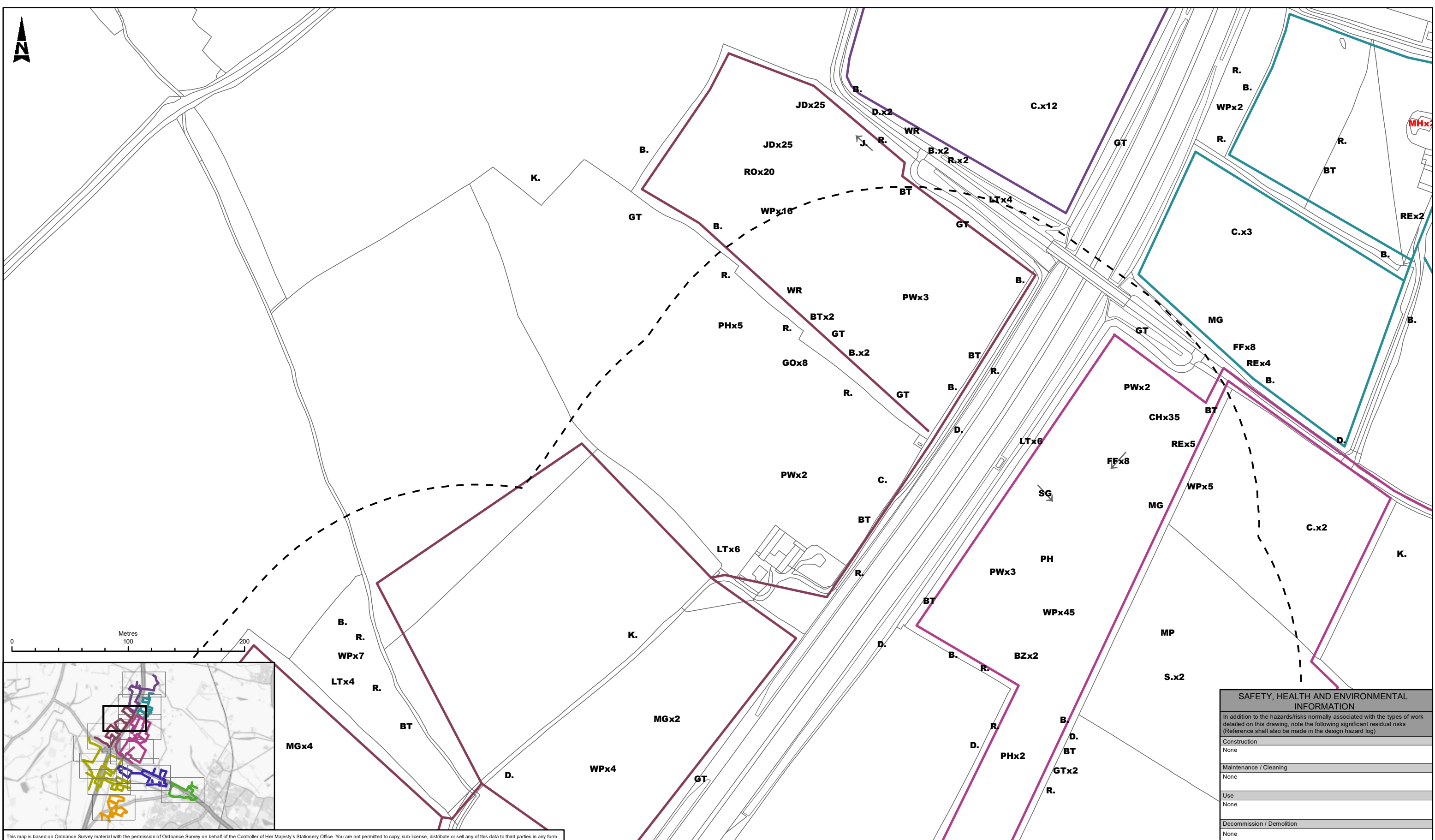
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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COUNTY COUNCIL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9C WINTERING BIRD SURVEY RESULTS NOVEMBER 2019
Drawing Number	Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000024
Original Size: A3	Scale: 1:3,000 Project Ref: 5197035 Sheet: 9 of 13 Rev: P03

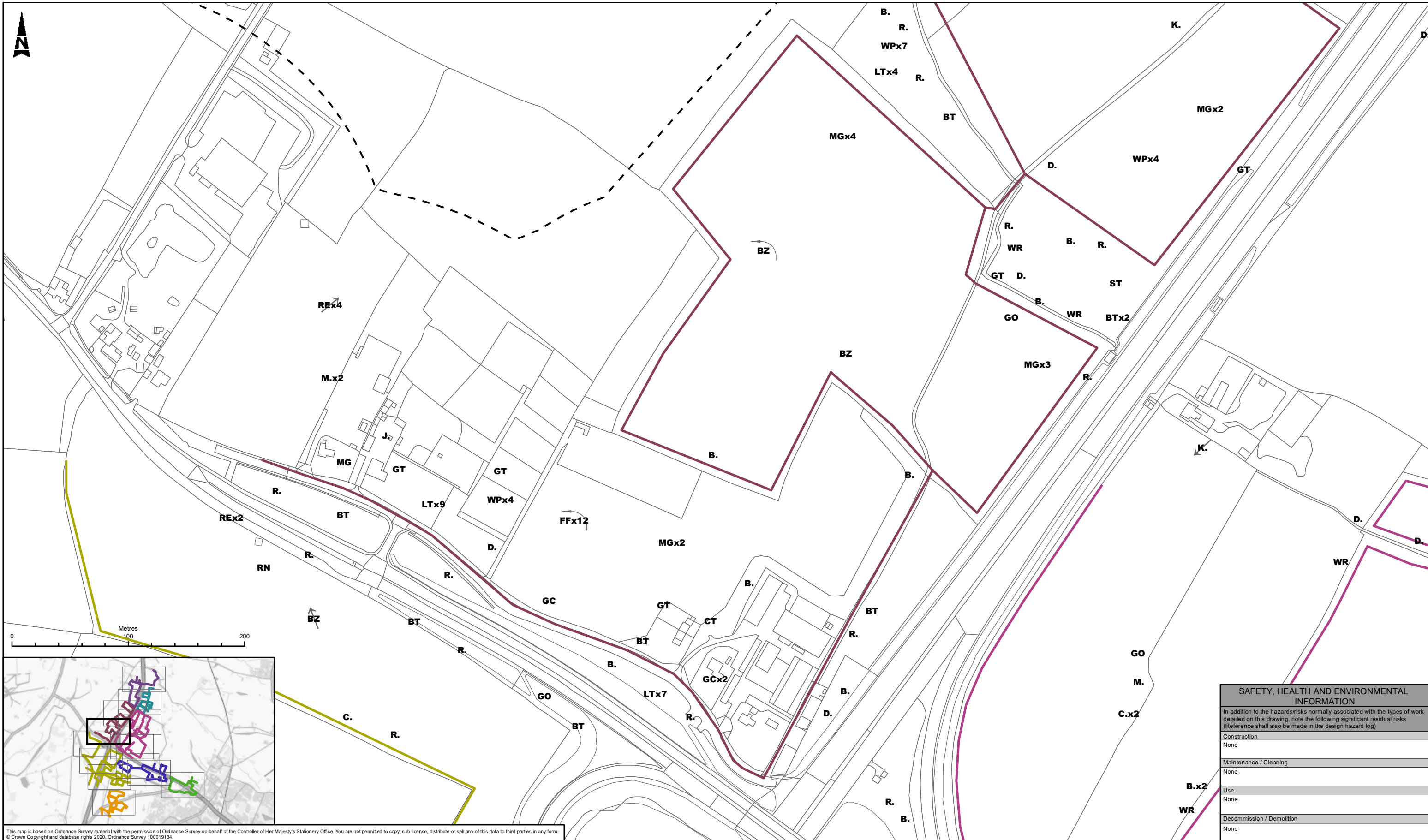


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Title		Project		Originator	
ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000024	
Member of the SNC-Lavalin Group		Tel: 08000 514 514 www.atkinsglobal.com		Client		Volume	
Copyright © Atkins Limited (2023)		Gloucestershire COUNTY COUNCIL		Location		Sheet	
Description		Original Size		Scale		Project Ref.	
PUBLISHED		A3		1:3,000		5197035	
Status		Revision		Drawn		Checked	
A1		P03		SD		RD	
Reviewed		Authorised		Issue Date		Number	
CC		LJ		01/05/23		12 of 13	
Revised		Issue Date		Rev.		P03	
CC		01/05/23		P03			

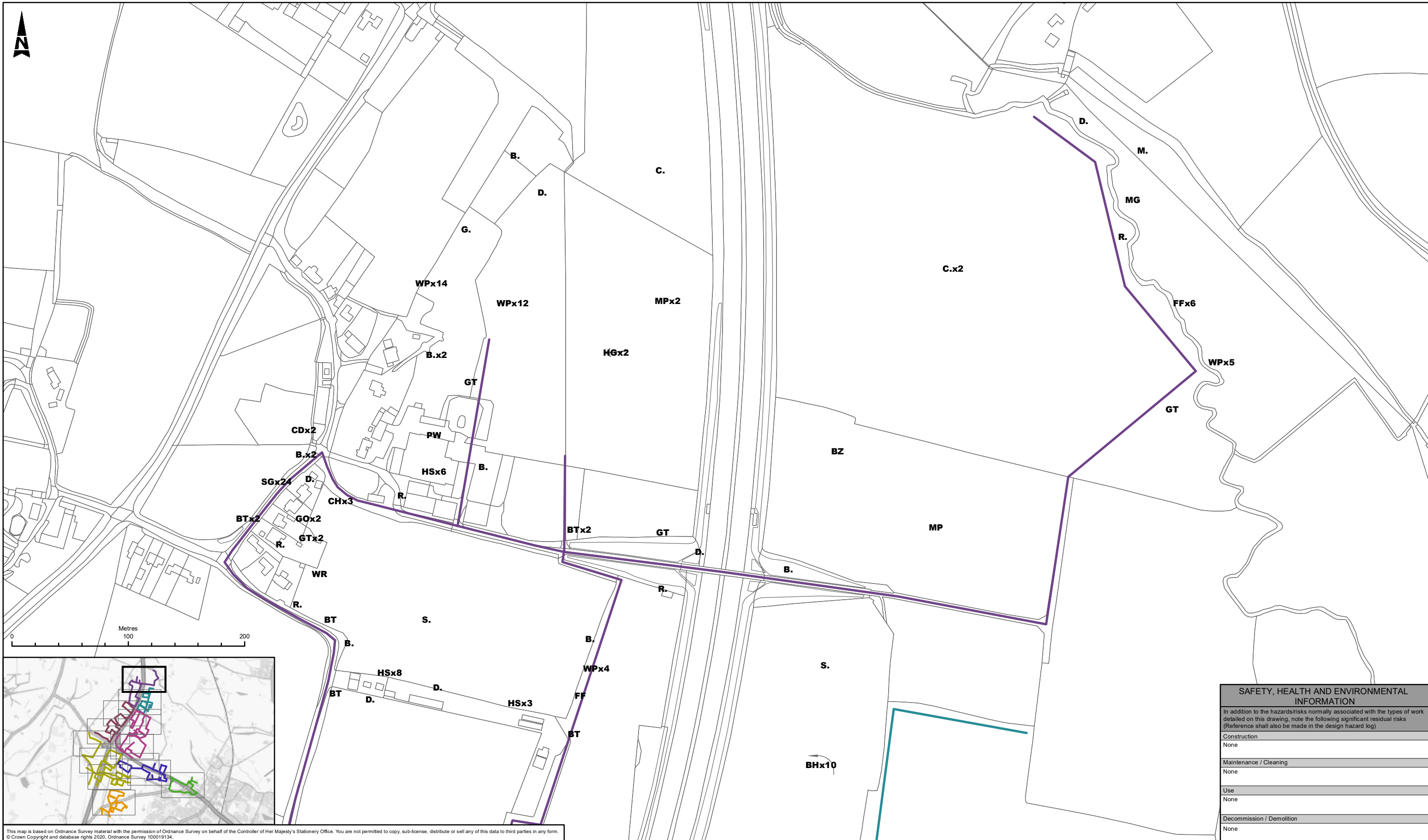


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	BZ	BUZZARD
	TRANSECT 2		FLYING	C.	CARRION CROW
	TRANSECT 3			CD	COLLARED DOVE
	TRANSECT 4			CH	CHAFFINCH
	TRANSECT 5			CT	COAL TIT
	TRANSECT 6	B.	BLACKBIRD	D.	DUNNOCK
	TRANSECT 7	BT	BLUE TIT	FF	FIELDFARE
	TRANSECT 8	BH	BLACK-HEADED GULL	G.	GREEN WOODPECKER
	TRANSECT 9			GC	GOLDCREST
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				HG	HERRING GULL
				HS	HOUSE SPARROW
		J.	JAY	J.D	JACKDAW
		K.	KESTREL	LB	LESSER BLACK-BACKED GULL
		LT	LONG-TAILED TIT	MA	MALLARD
		M.	MISTLE THRUSH	MG	MAGPIE
		MP	MEADOW PIPIT	SG	STARLING
		PW	PIED WAGTAIL	SH	SPARROWHAWK
		PH	PHEASANT	ST	SONG THRUSH
		R.	ROBIN	WP	WOOD PIGEON
		RE	REDWING	WR	WREN
		RO	ROOK	Y.	YELLOWHAMMER
		S.	SKYLARK		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-9C WINTERING BIRD SURVEY RESULTS NOVEMBER 2019	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514			
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com			
Description		Client		Gloucestershire COUNTY COUNCIL		Drawing Number	
Description		PUBLISHED		A1		Project Originator Volume	
Description		PUBLISHED		A1		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000024	
Description		PUBLISHED		A1		Location Type Role Number	
Description		PUBLISHED		A1		Original Size: A3 Scale: 1:3,000 Project Ref: 5197035 Sheet: 13 of 13 Rev: P03	



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED							

Drawing Suitability: **PUBLISHED**

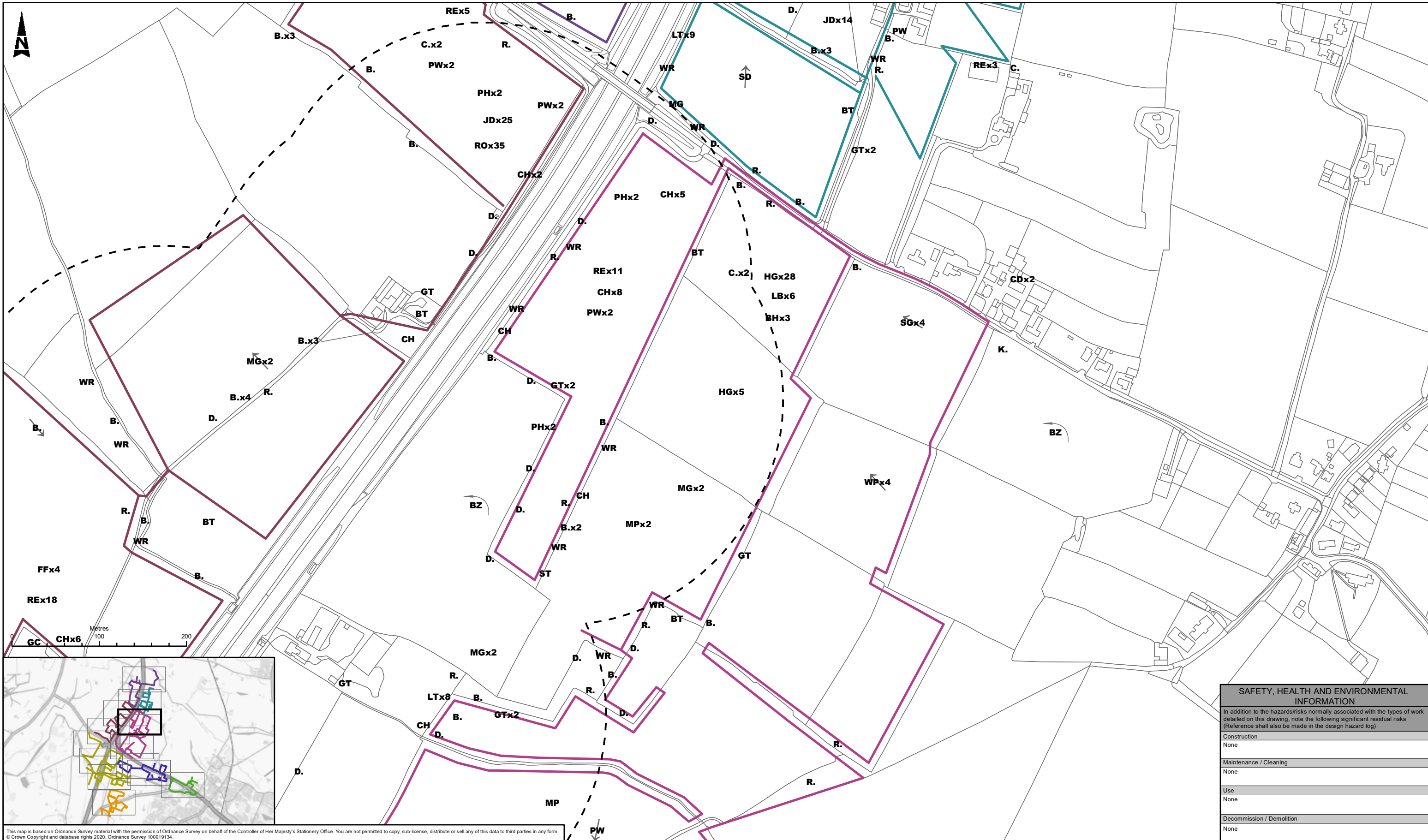
Status: **A1**

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000025	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 1 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

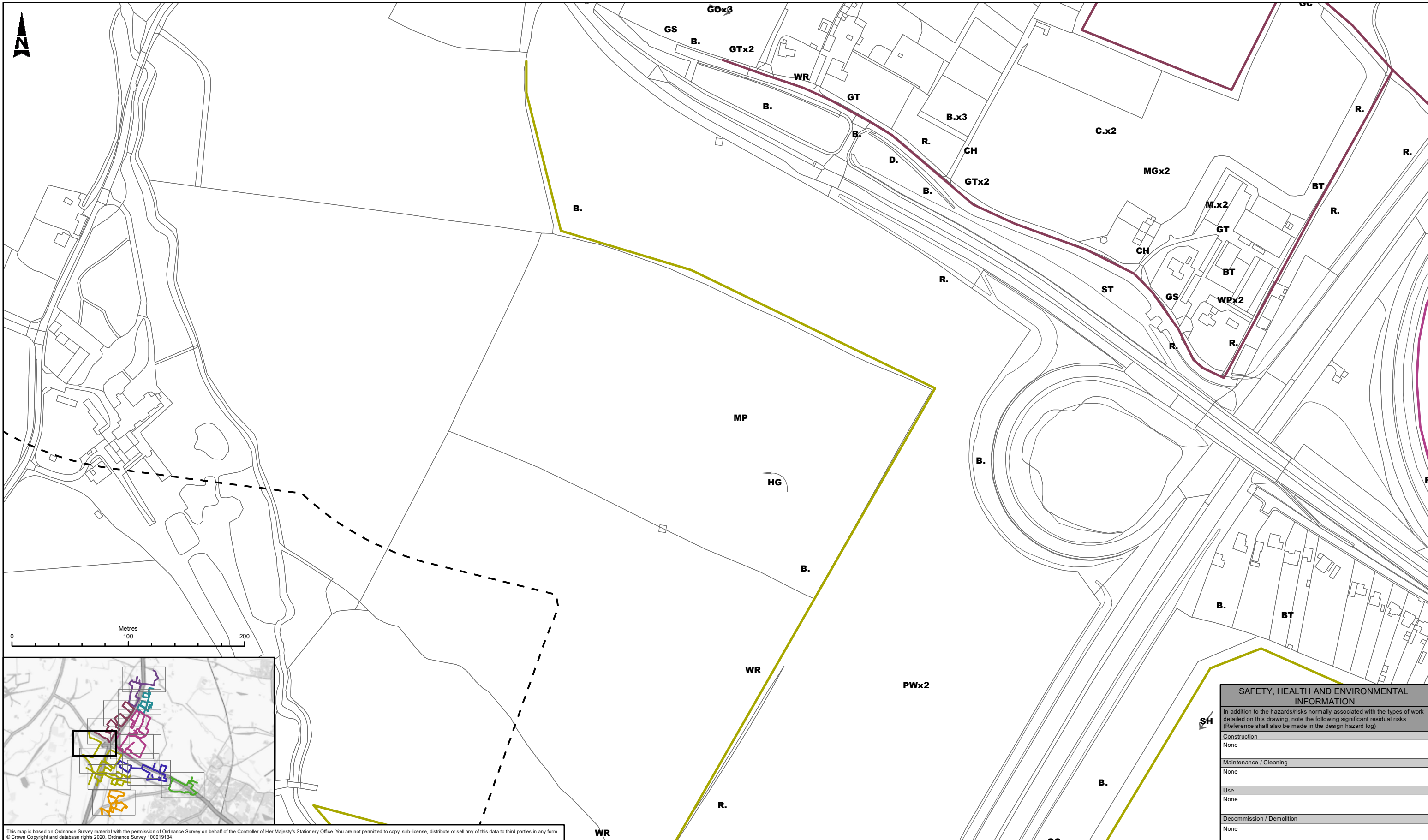
LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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 Bearland
 Gloucester
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000025	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 3 of 13 Rev: P03

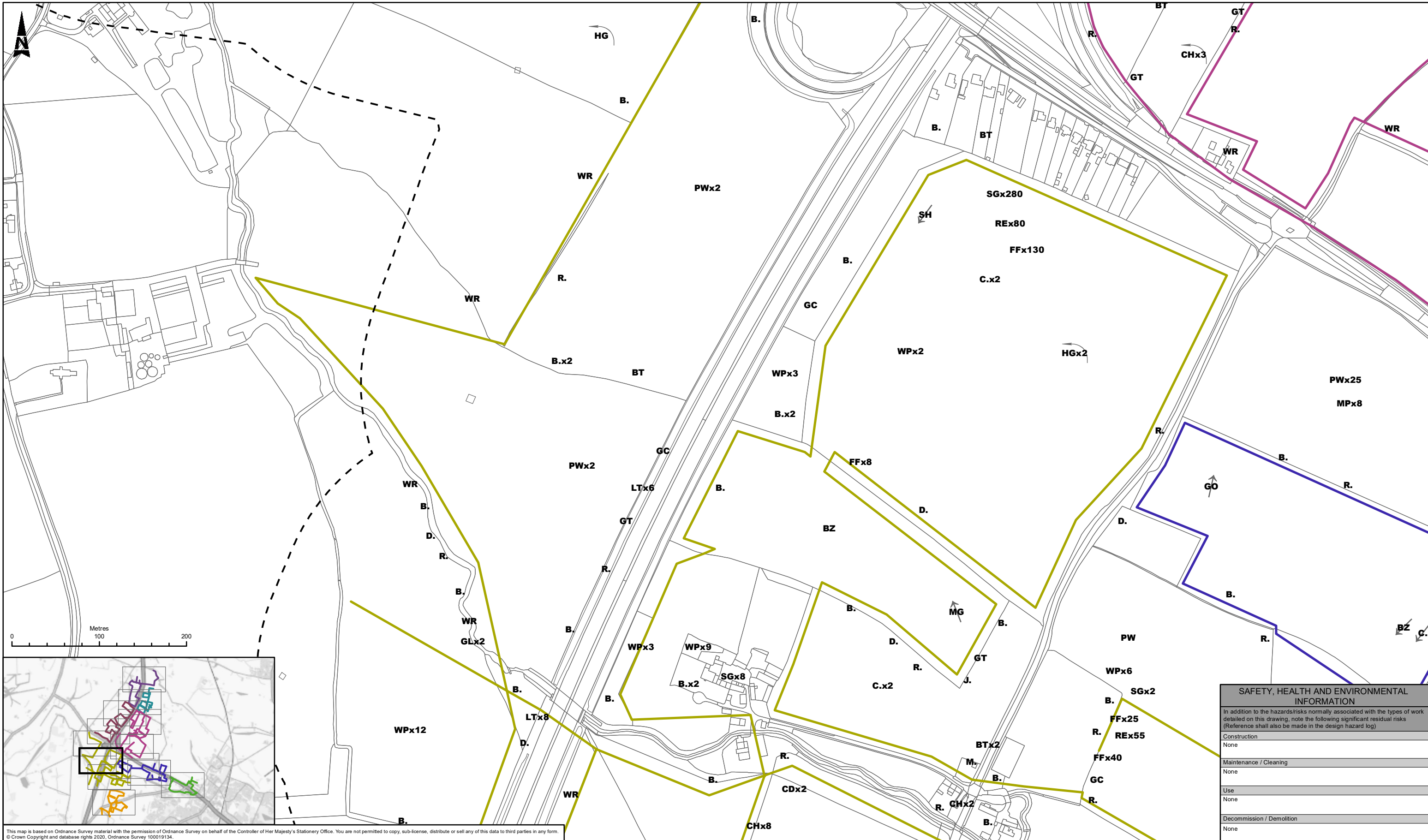


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
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RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description		Drawing Suitability	Status	Project Title															
<table border="1"> <tr><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date								PUBLISHED	A1	M5 Junction 10 Improvements Scheme	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
<table border="1"> <tr><td>Description</td><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date										
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
A1	P03	SD	RD	CC	LJ	01/05/23													



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

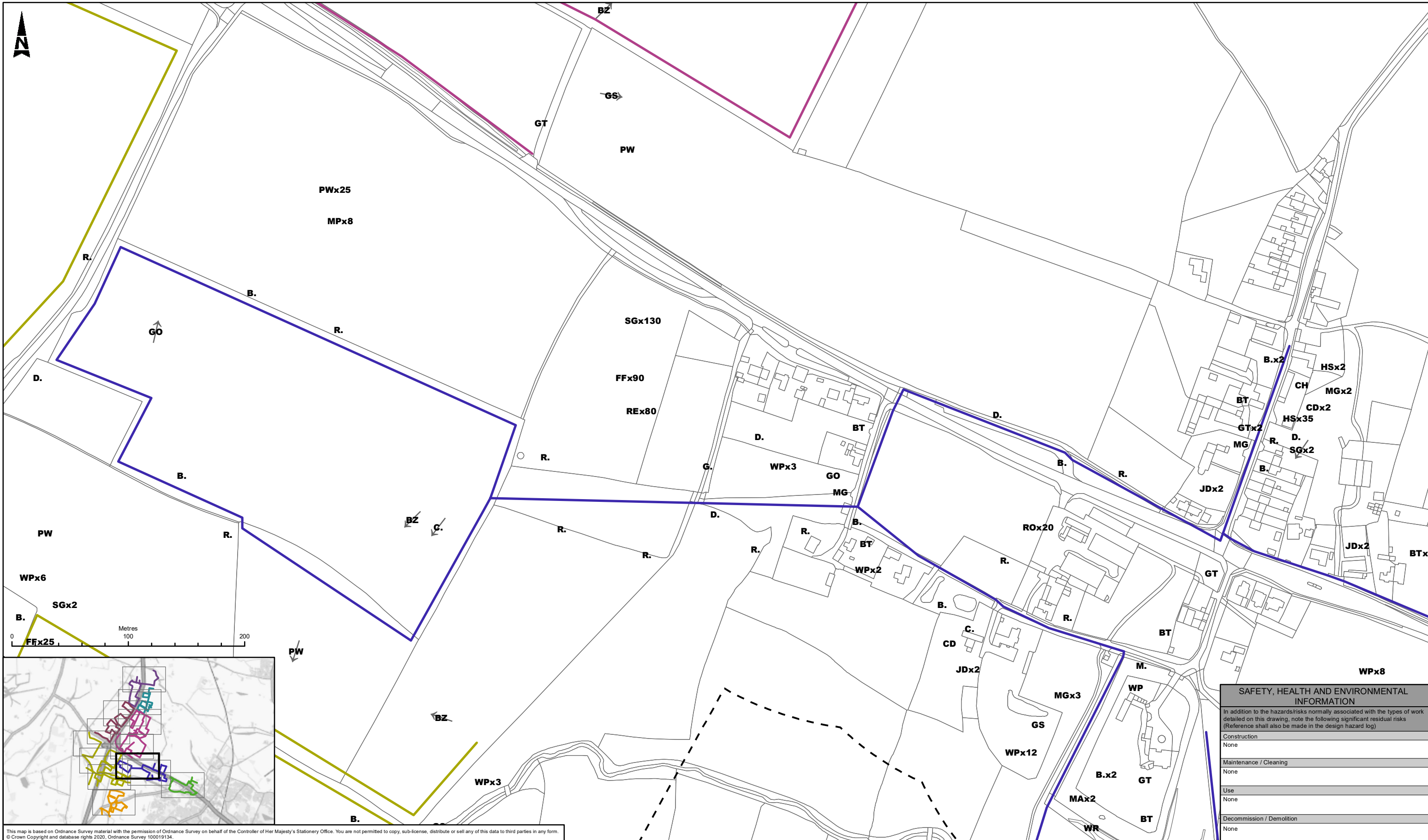
LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	FORAGING IN FLIGHT
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SPECIES (BTO CODES)	
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BT	BLUE TIT
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K.	KESTREL
LB	LESSER BLACK-BACKED GULL
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M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
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S.	SKYLARK
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WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000025		
Location	Type	Role	Number
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Original Size	Scale	Project Ref	Sheet
A3	1:4,000	5214106	6 of 13
Rev:	P03		

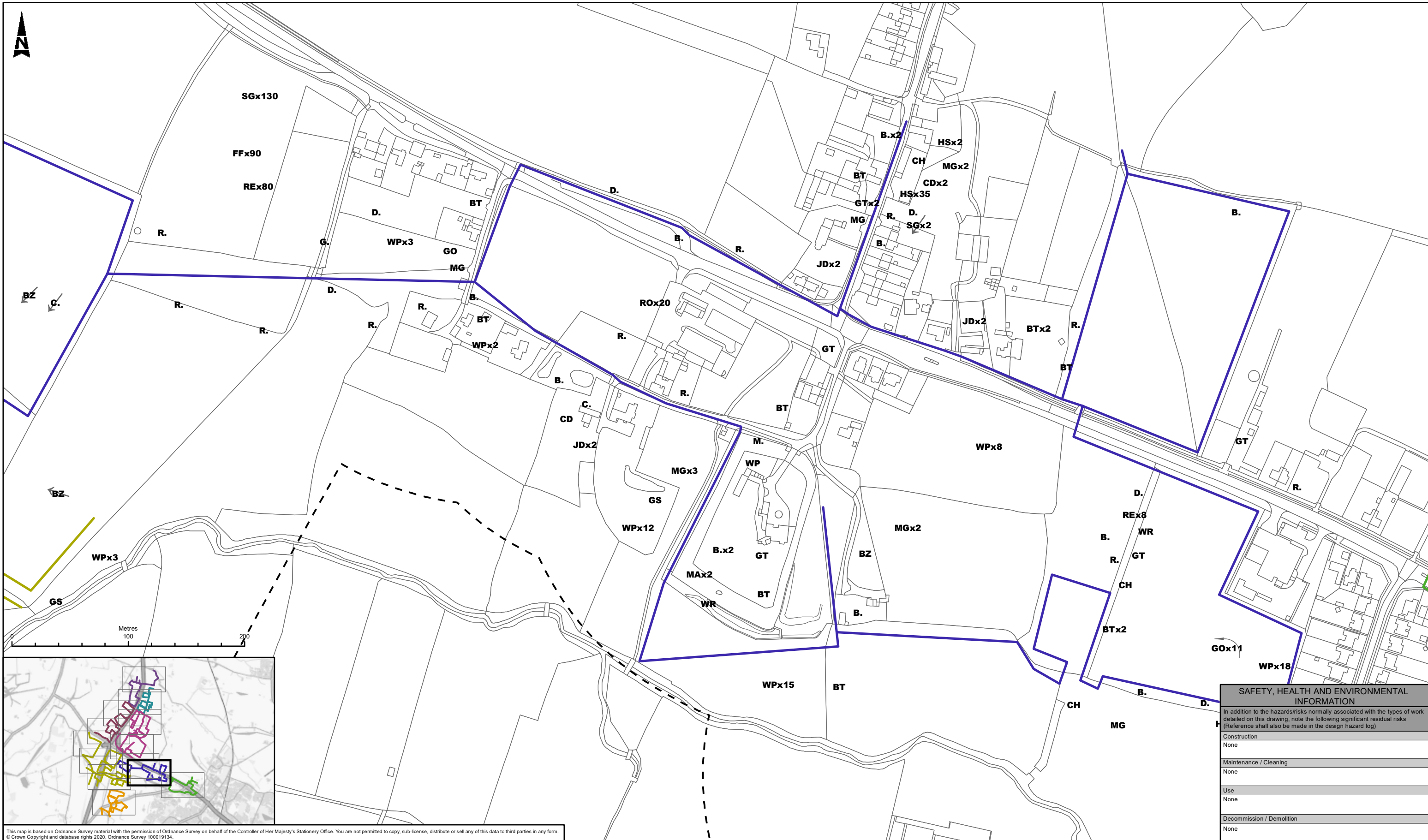


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
LB	LESSER BLACK-BACKED GULL
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MG	MAGPIE
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RE	REDWING
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

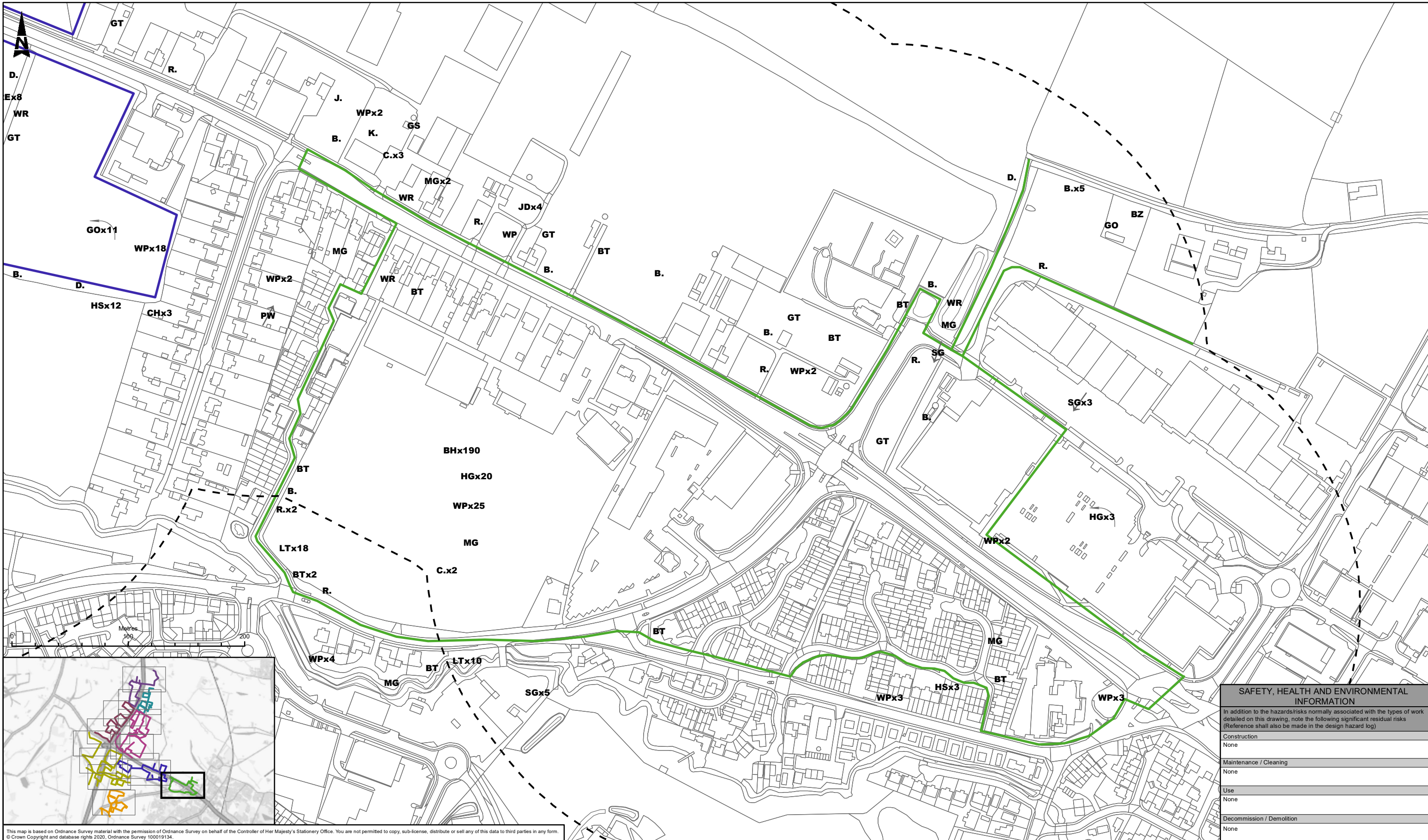
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PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Title		Project		Originator	
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Member of the SNC-Lavalin Group		Tel: 08000 514 514 www.atkinsglobal.com		Client		Volume	
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Description		Original Size		Scale		Project Ref.	
PUBLISHED		A3		1:3,000		5214106	
Status		Revision		Drawn		Checked	
A1		P03		SD		RD	
Reviewed		Authorised		Issue Date		Sheet	
CC		LJ		01/05/23		8 of 13	
Rev:		P03					



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Use	None
Decommission / Demolition	None

LEGEND 		<table border="0"> <tr> <td>BZ BUZZARD</td> <td>G. GREEN WOODPECKER</td> <td>HS HOUSE SPARROW</td> <td>M. MISTLE THRUSH</td> <td>S. SKYLARK</td> </tr> <tr> <td>C. CARRION CROW</td> <td>GC GOLDCREST</td> <td>J. JAY</td> <td>MA MALLARD</td> <td>SD STOCK DOVE</td> </tr> <tr> <td>CD COLLARED DOVE</td> <td>GL GREY WAGTAIL</td> <td>JD JACKDAW</td> <td>MG MAGPIE</td> <td>SG STARLING</td> </tr> <tr> <td>CH CHAFFINCH</td> <td>GO GOLDFINCH</td> <td>K. KESTREL</td> <td>MP MEADOW PIPIT</td> <td>SH SPARROWHAWK</td> </tr> <tr> <td>CT COAL TIT</td> <td>GS GREAT SPOTTED WOODPECKER</td> <td>LB LESSER BLACK-BACKED GULL</td> <td>PW PIED WAGTAIL</td> <td>ST SONG THRUSH</td> </tr> <tr> <td>D. DUNNOCK</td> <td>GT GREAT TIT</td> <td>LT LONG-TAILED TIT</td> <td>PH PHEASANT</td> <td>WP WOOD PIGEON</td> </tr> <tr> <td>FF FIELDFARE</td> <td>HG HERRING GULL</td> <td></td> <td>R. ROBIN</td> <td>WR WREN</td> </tr> <tr> <td></td> <td></td> <td></td> <td>RE REDWING</td> <td>Y. YELLOWHAM...</td> </tr> <tr> <td></td> <td></td> <td></td> <td>RO ROOK</td> <td></td> </tr> </table>		BZ BUZZARD	G. GREEN WOODPECKER	HS HOUSE SPARROW	M. MISTLE THRUSH	S. SKYLARK	C. CARRION CROW	GC GOLDCREST	J. JAY	MA MALLARD	SD STOCK DOVE	CD COLLARED DOVE	GL GREY WAGTAIL	JD JACKDAW	MG MAGPIE	SG STARLING	CH CHAFFINCH	GO GOLDFINCH	K. KESTREL	MP MEADOW PIPIT	SH SPARROWHAWK	CT COAL TIT	GS GREAT SPOTTED WOODPECKER	LB LESSER BLACK-BACKED GULL	PW PIED WAGTAIL	ST SONG THRUSH	D. DUNNOCK	GT GREAT TIT	LT LONG-TAILED TIT	PH PHEASANT	WP WOOD PIGEON	FF FIELDFARE	HG HERRING GULL		R. ROBIN	WR WREN				RE REDWING	Y. YELLOWHAM...				RO ROOK		<table border="1"> <tr> <td colspan="2">Description</td> <td colspan="2">Drawing Suitability</td> <td colspan="2">Status</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td>PUBLISHED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>01/05/23</td> </tr> </table>		Description		Drawing Suitability		Status		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED						01/05/23	<table border="1"> <tr> <td colspan="2"> ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com </td> <td colspan="2"> Gloucestershire COUNTY COUNCIL </td> </tr> </table>		ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Gloucestershire COUNTY COUNCIL		<table border="1"> <tr> <td>Project Title</td> <td>M5 Junction 10 Improvements Scheme</td> </tr> <tr> <td>Drawing Title</td> <td>FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019</td> </tr> <tr> <td>Drawing Number</td> <td>Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000025</td> </tr> <tr> <td>Original Size: A3</td> <td>Scale: 1:3,000</td> </tr> <tr> <td>Project Ref: 5214106</td> <td>Sheet: 9 of 13</td> </tr> <tr> <td>Rev: P03</td> <td></td> </tr> </table>		Project Title	M5 Junction 10 Improvements Scheme	Drawing Title	FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019	Drawing Number	Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000025	Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 9 of 13	Rev: P03	
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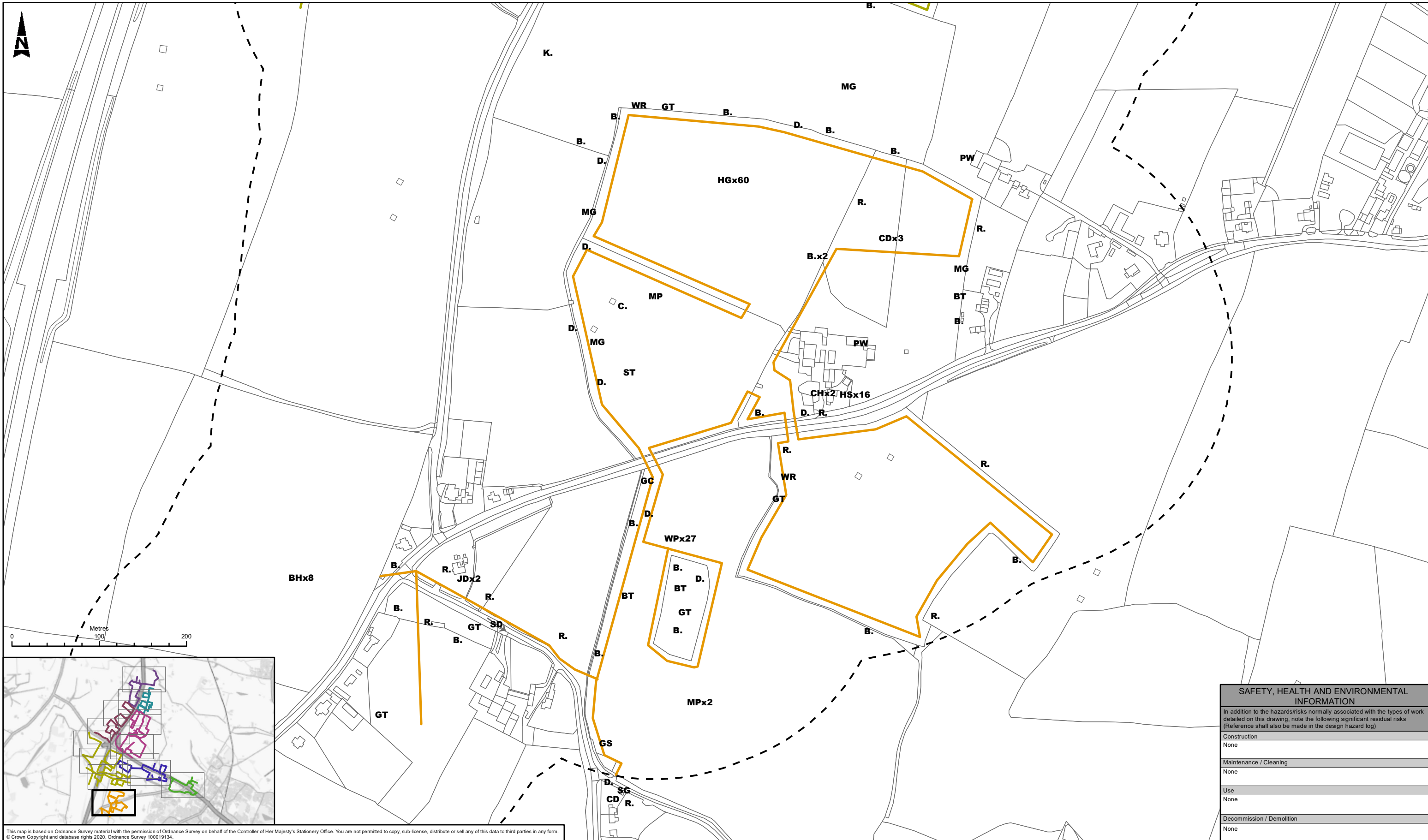


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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
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HS	HOUSE SPARROW
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JD	JACKDAW
K.	KESTREL
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MA	MALLARD
MG	MAGPIE
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RO	ROOK
S.	SKYLARK
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SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description		Drawing Suitability	Status	Project Title
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme
Description				Drawing Title
PUBLISHED		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019
Description				Drawing Number
PUBLISHED		Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000025 Volume:		Location: Type: Role: Number:
Status: A1 Revision: P03 Drawn: SD Checked: RD Reviewed: CC Authorised: LJ Issue Date: 01/05/23		Client:	Project Ref: 5214106 Scale: 1:3,000 Sheet: 10 of 13 Rev: P03	Original Size: A3



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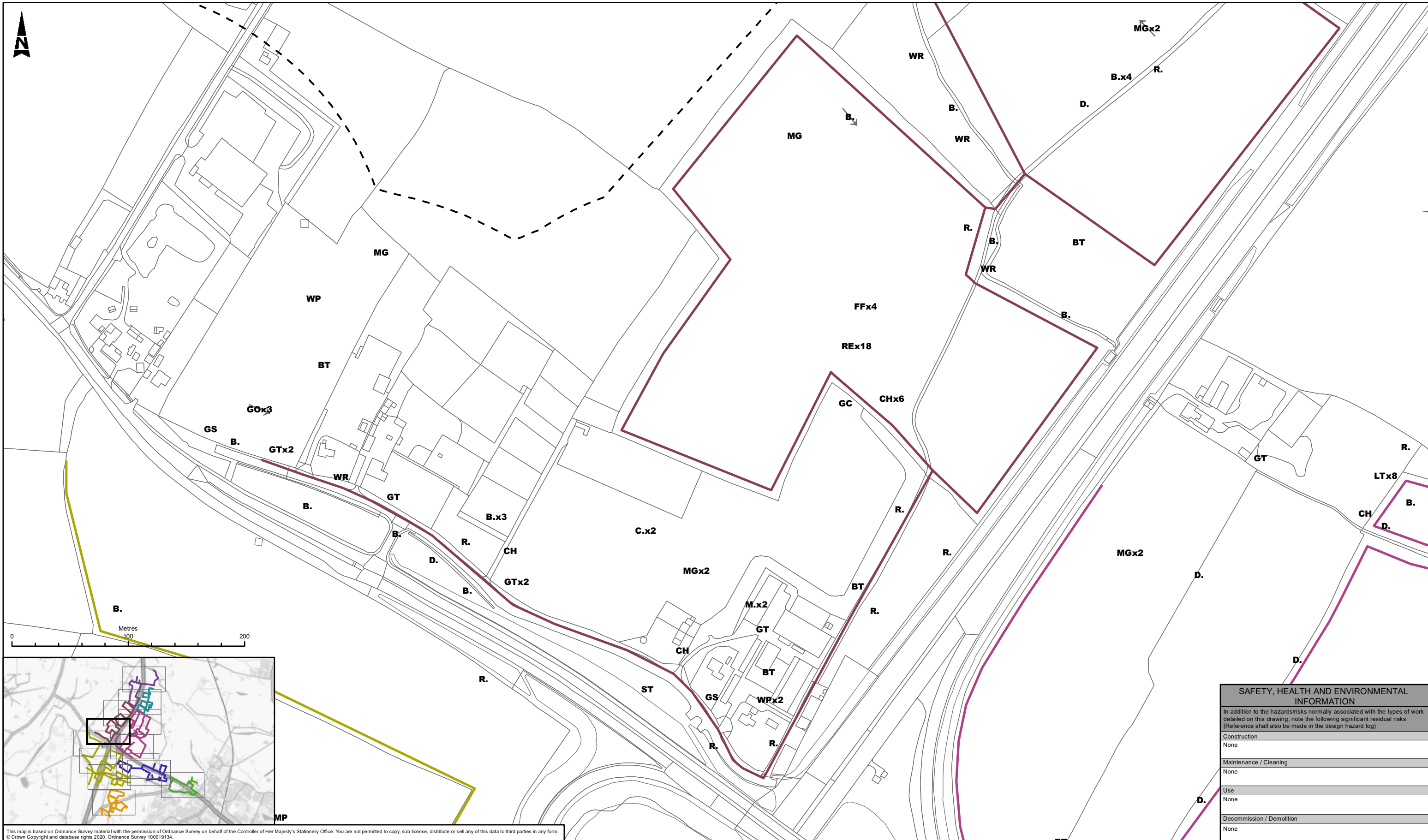
LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
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LB	LESSER BLACK-BACKED GULL
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MG	MAGPIE
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SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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 Gloucester
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000025	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 11 of 13 Rev: P03



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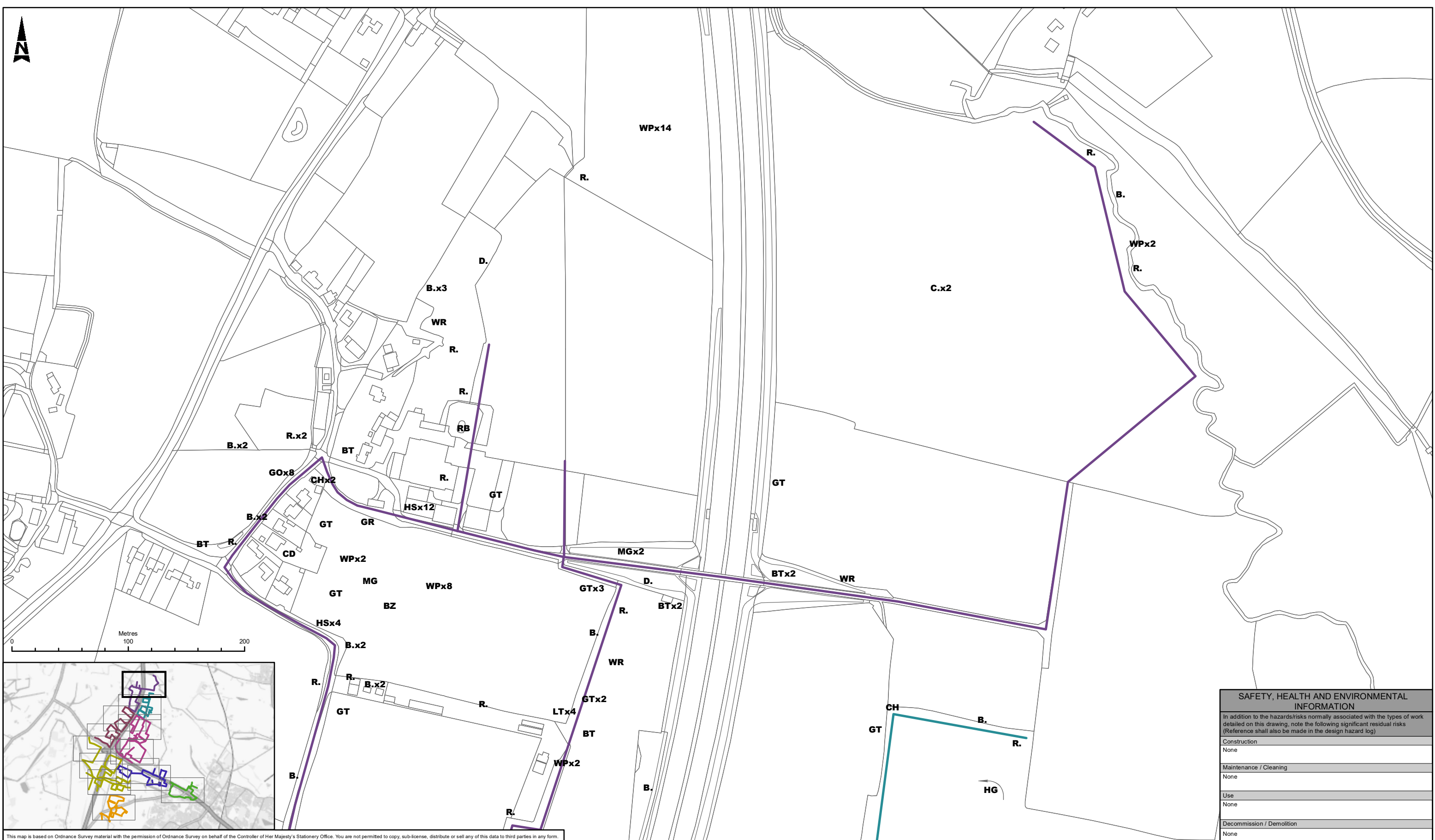
LEGEND	
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	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
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PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9D WINTERING BIRD SURVEY RESULTS DECEMBER 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000025 Volume: GL1 2TH
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	13 of 13
Rev	P03

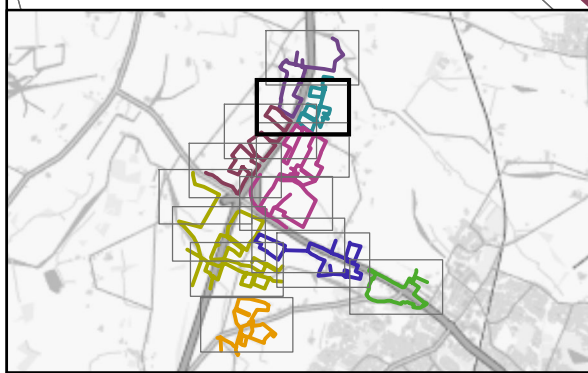


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Construction	None
Maintenance / Cleaning	None
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LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
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CA	CORMORANT
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GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
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S.	SKYLARK
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Description		Drawing Suitability	Status	Project Title														
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
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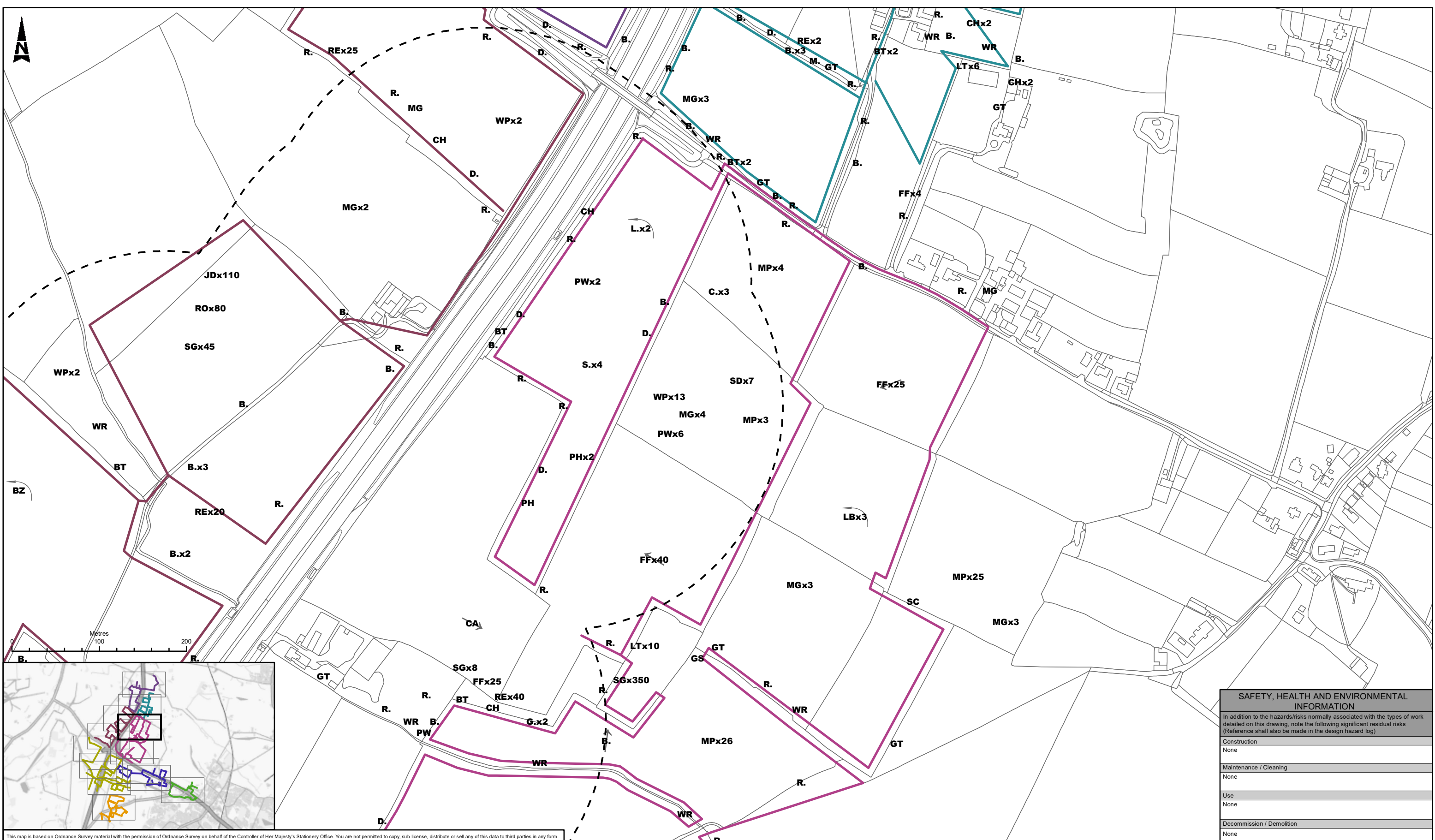
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CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000026		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	Sheet: 2 of 13 Rev: P03



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

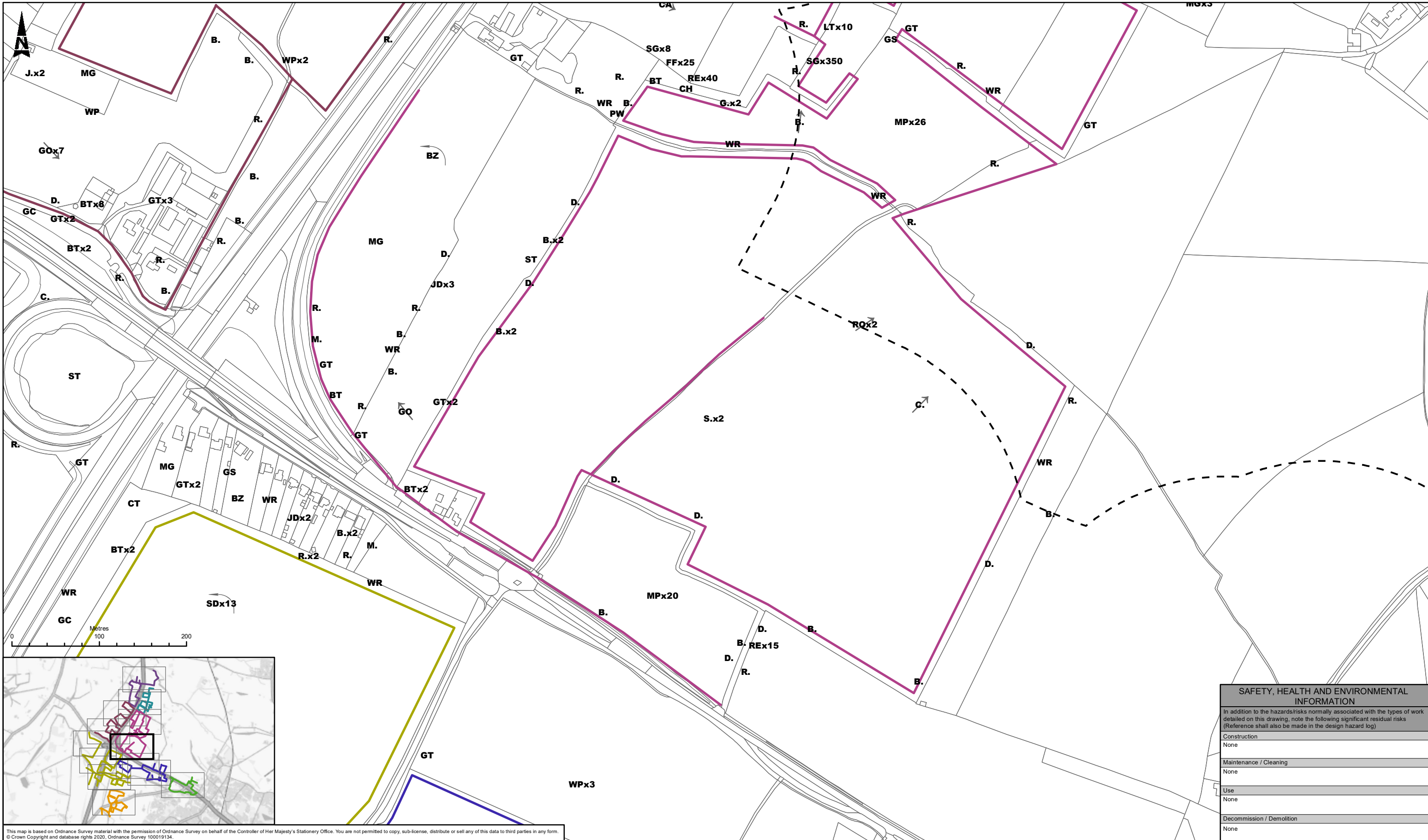
LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

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Drawing Title		M5 Junction 10 Improvements Scheme	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 3 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
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C.	CARRION CROW
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R.	ROBIN
RE	REED WING
RB	REED BUNTING
RN	RAVEN
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SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

Drawing Suitability: **PUBLISHED**

Status: **A1**

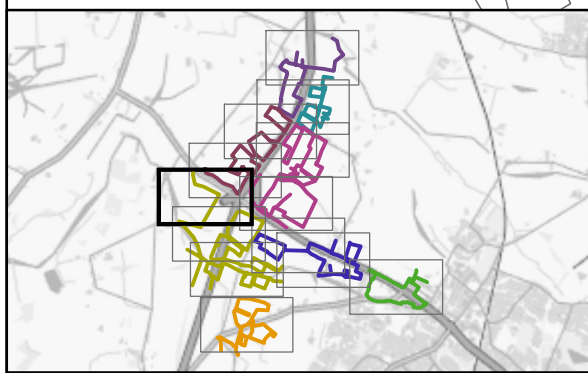
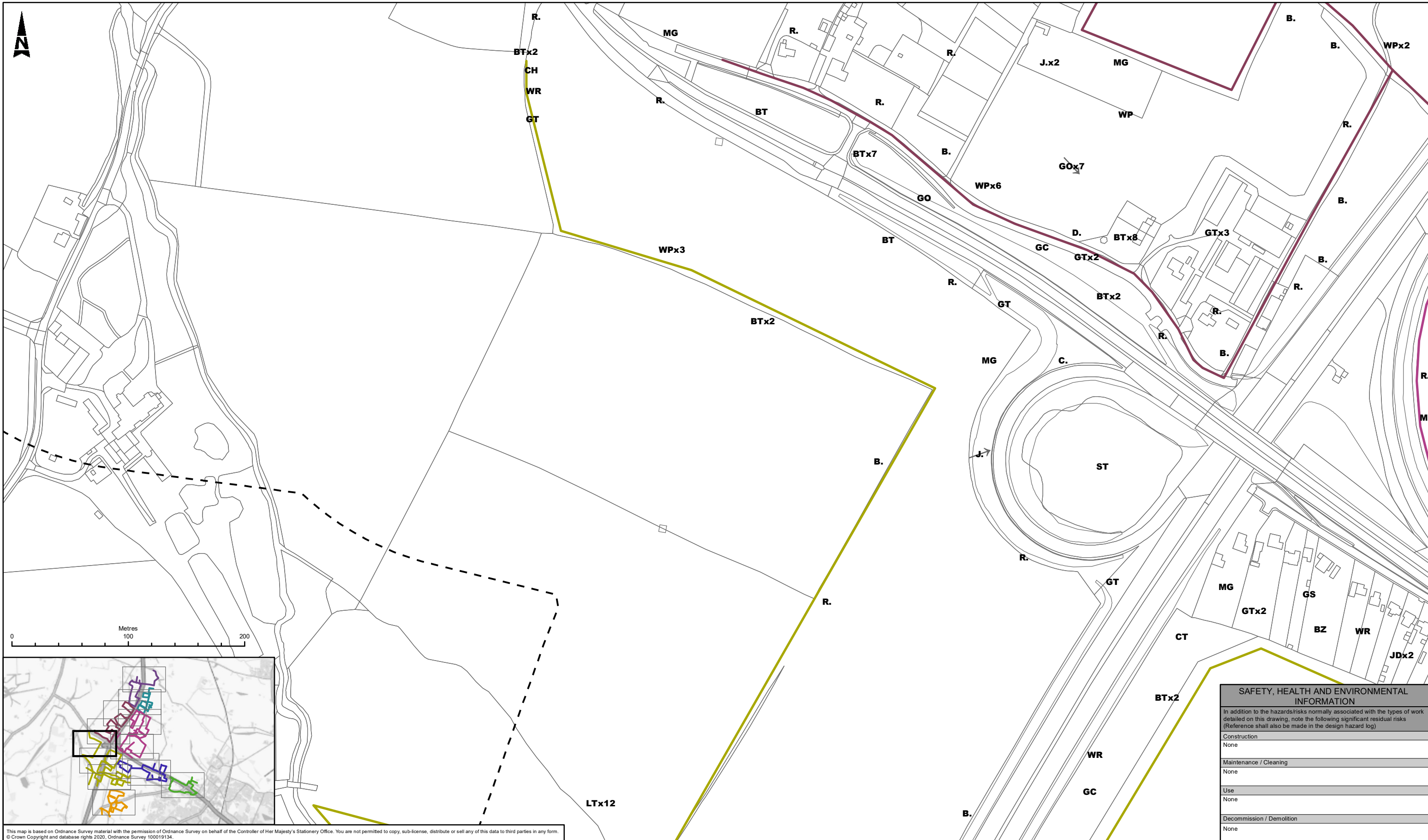
Project Title: **M5 Junction 10 Improvements Scheme**

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Drawing Title	
FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Drawing Number	
GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026	
Original Size	
A3	Scale: 1:4,000
Project Ref	
5214106	Sheet: 4 of 13
Rev	
P03	



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 9
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
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JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	

Drawing Suitability: **PUBLISHED**

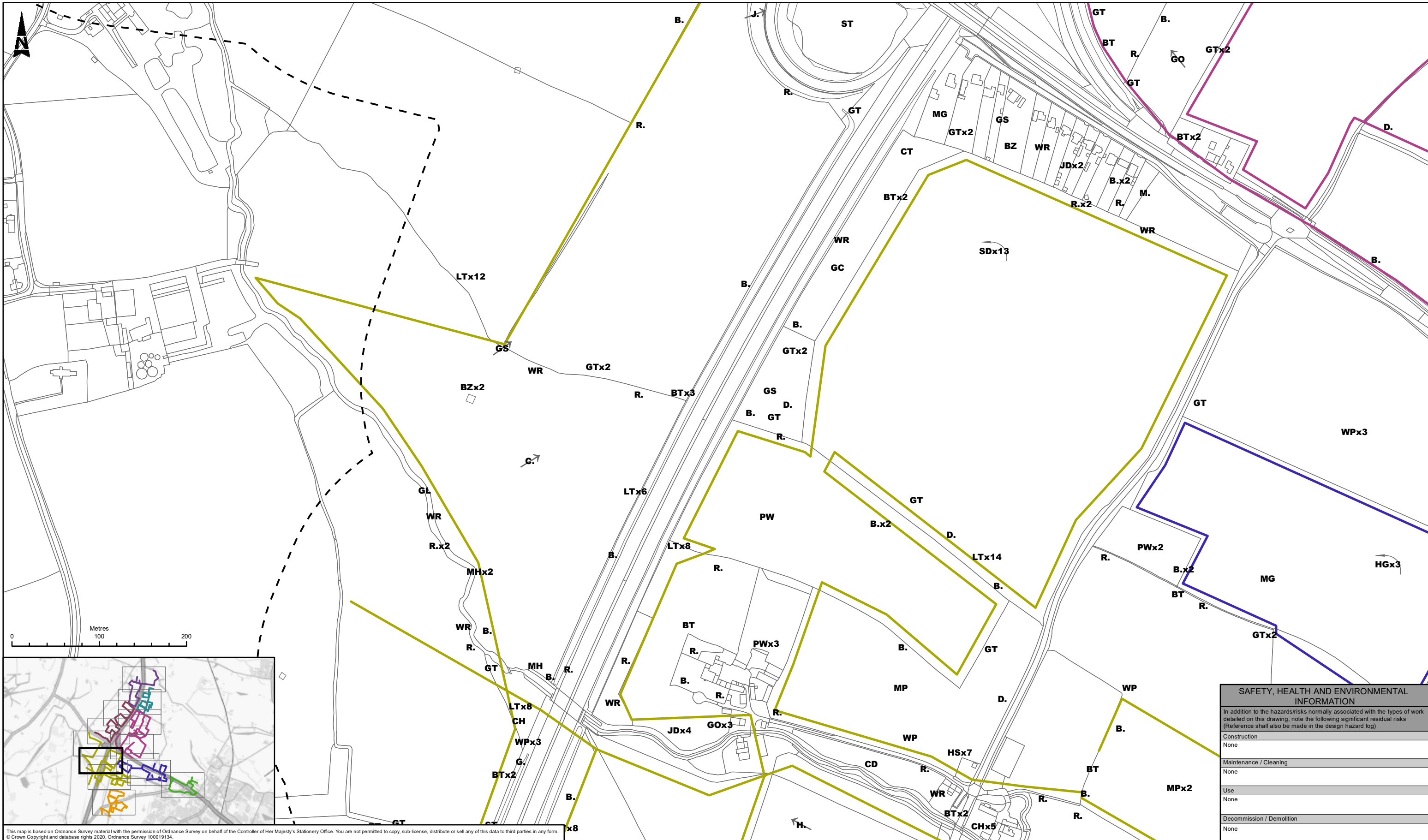
Status: **A1**

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000026		
Location	Type	Project Ref	Sheet
A3	1:3,000	5214106	5 of 13
Original Size	Scale	Project Ref	Rev
A3	1:3,000	5214106	P03



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

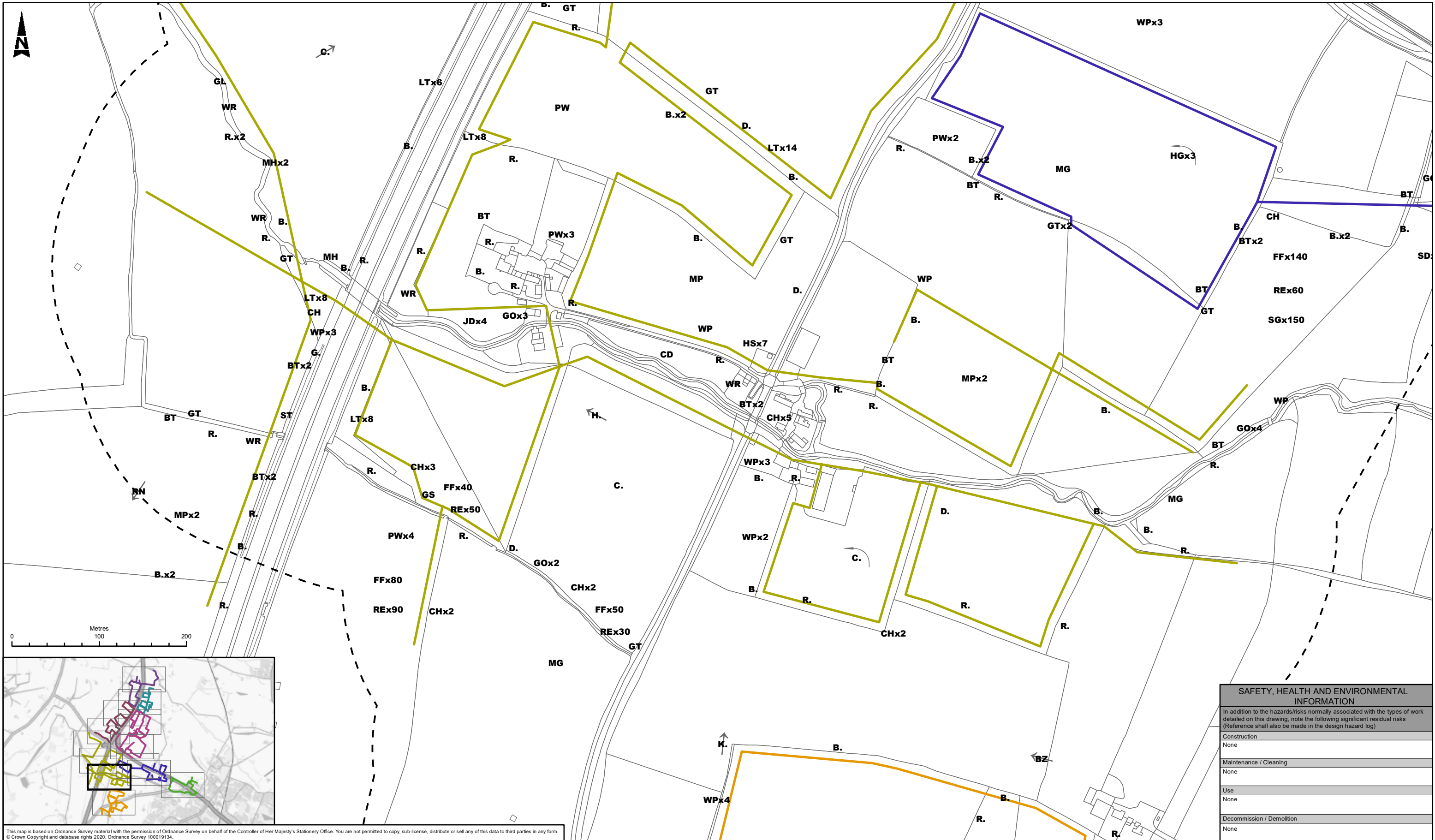
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	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000026 Volume: 6 of 13
Original Size	A3
Scale	1:4,000
Project Ref	5214106
Sheet	6 of 13
Rev	P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

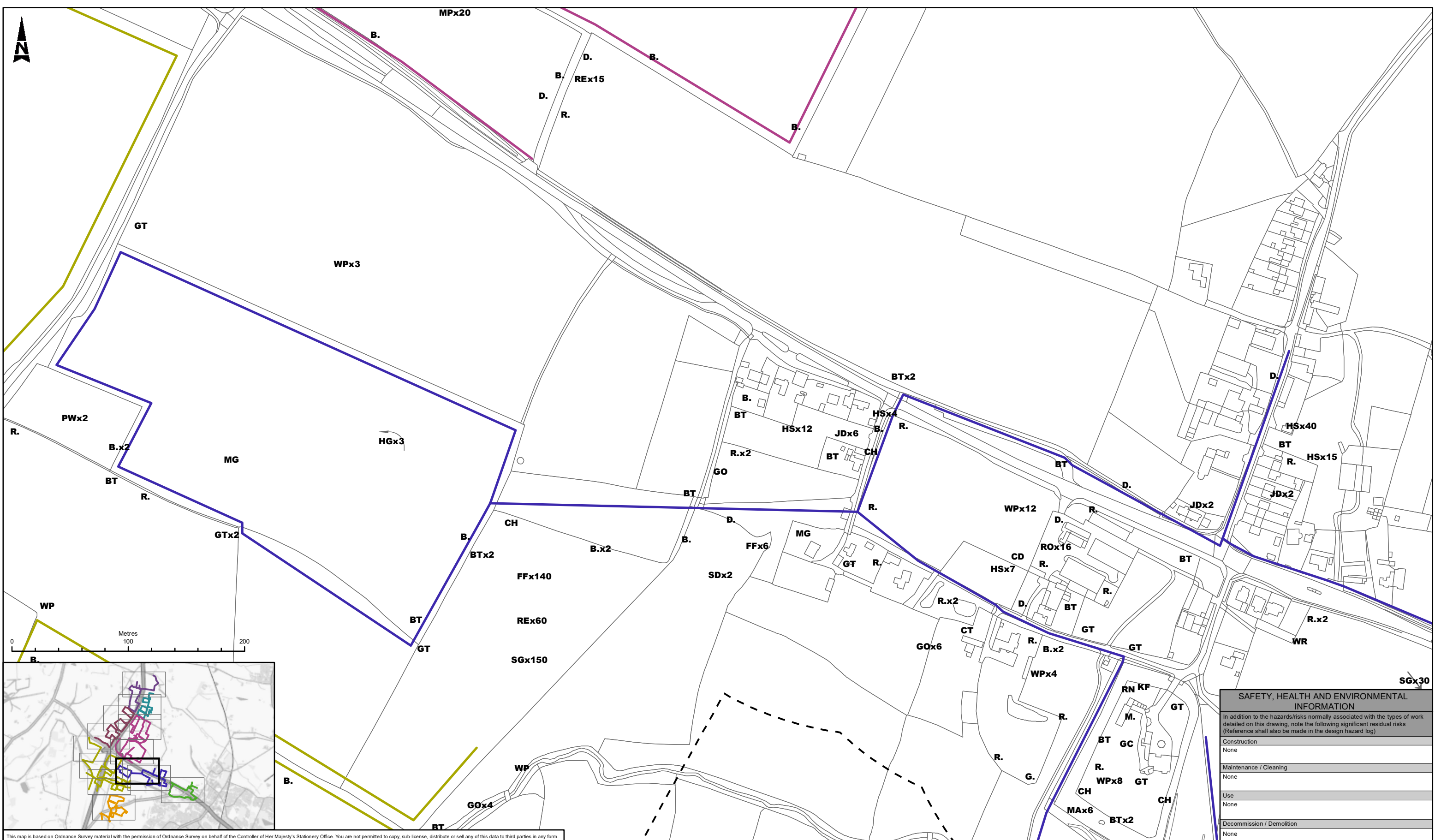
LEGEND	
	250M STUDY AREA
	TRANSECT 9
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
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GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000026 Volume: 7 of 13
Original Size: A3	Scale: 1:4,000 Project Ref: 5214106 Sheet: 7 of 13 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

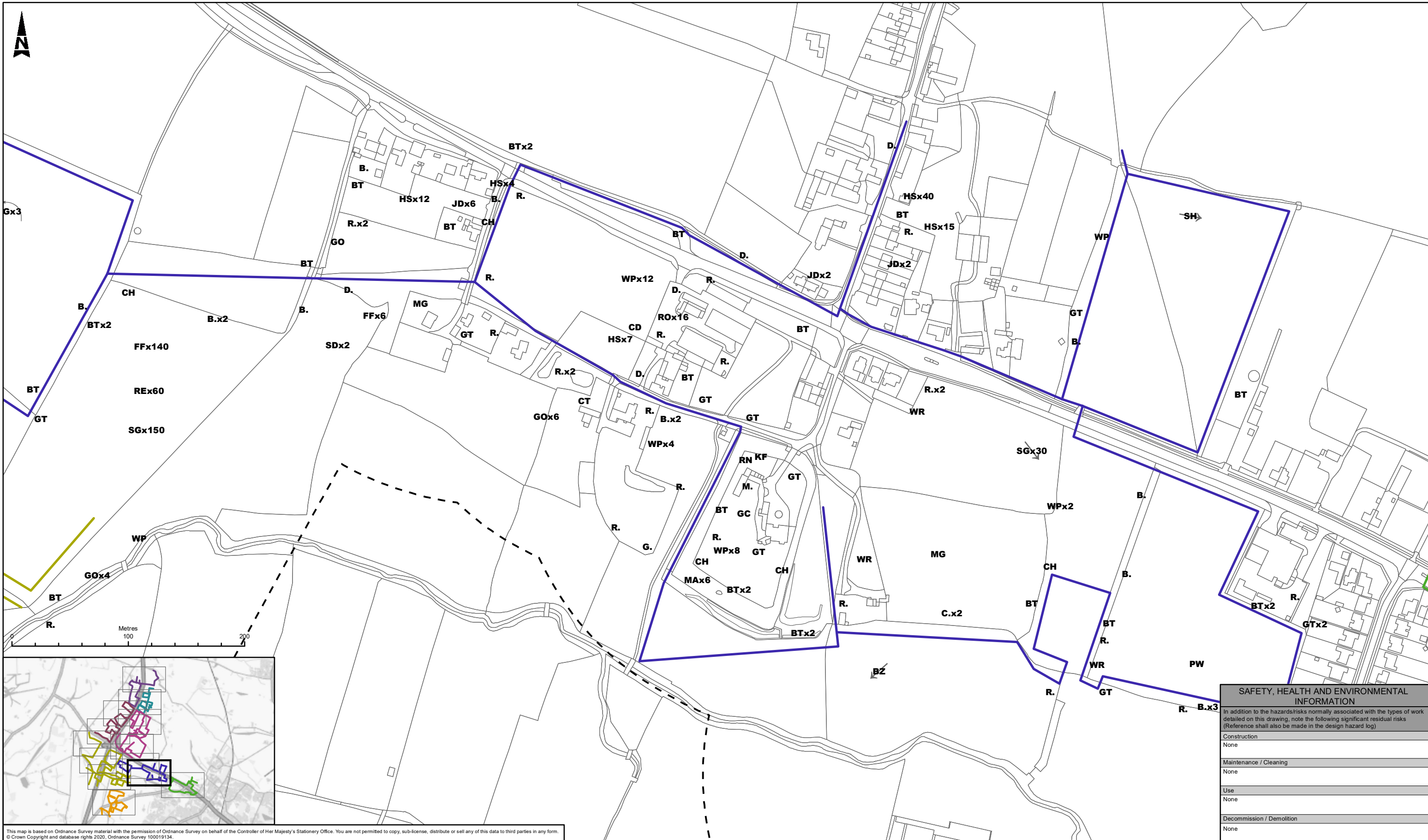
LEGEND	
	250M STUDY AREA
	TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS FORAGING IN FLIGHT FLYING
	SPECIES (BTO CODES) B. BLACKBIRD BT BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
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L.	LAPWING
LB	LESSER BLACK-BACKED GULL
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M.	MISTLE THRUSH
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 8 of 13 Rev: P03



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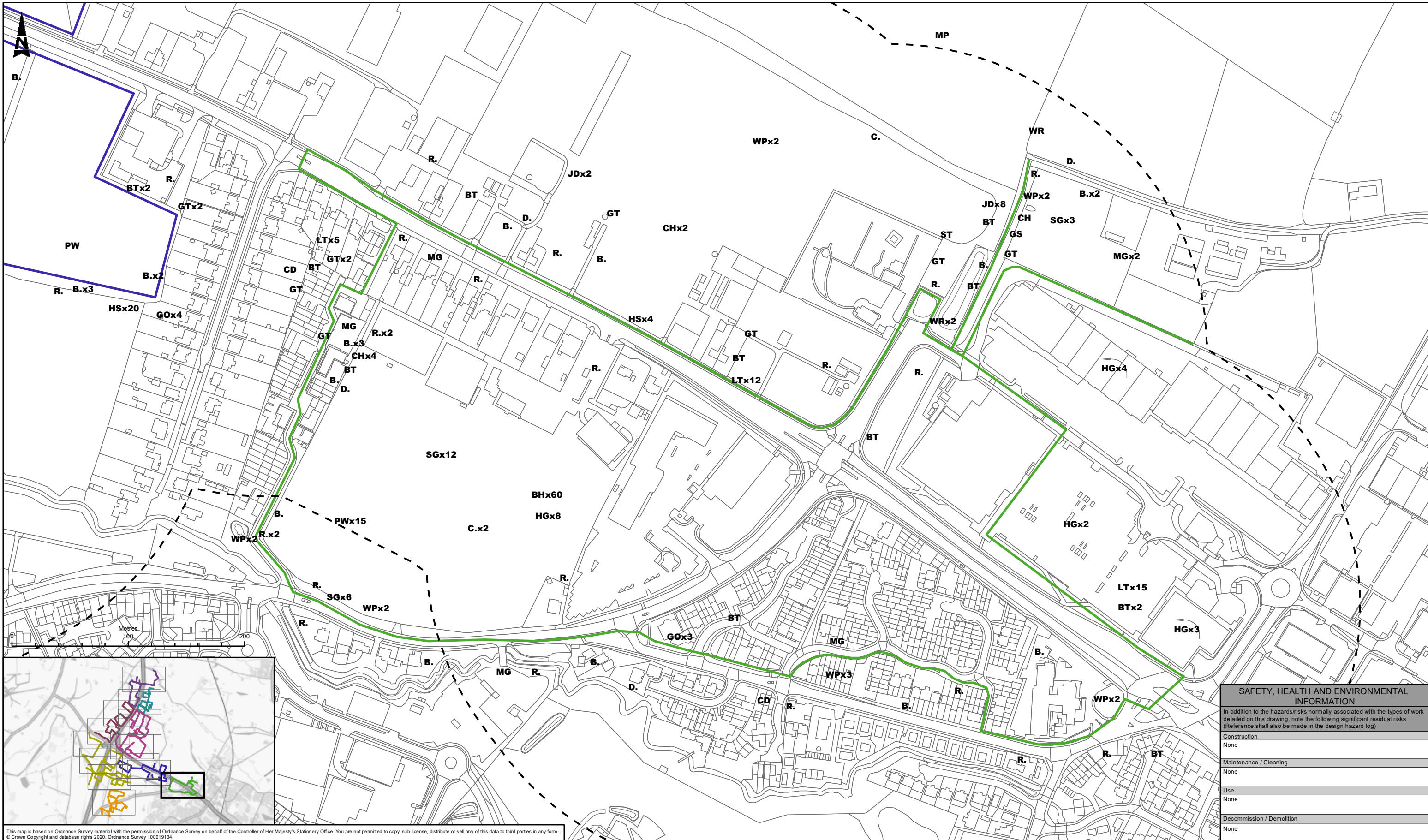
LEGEND	
	250M STUDY AREA
	TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8
	TRANSECT 9
	BEHAVIOURS FORAGING IN FLIGHT FLYING
	SPECIES (BTO CODES) B. BLACKBIRD BT BLUE TIT
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BZ	BUZZARD
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CD	COLLARED DOVE
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020
Drawing Number	Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	9 of 13
Rev	P03



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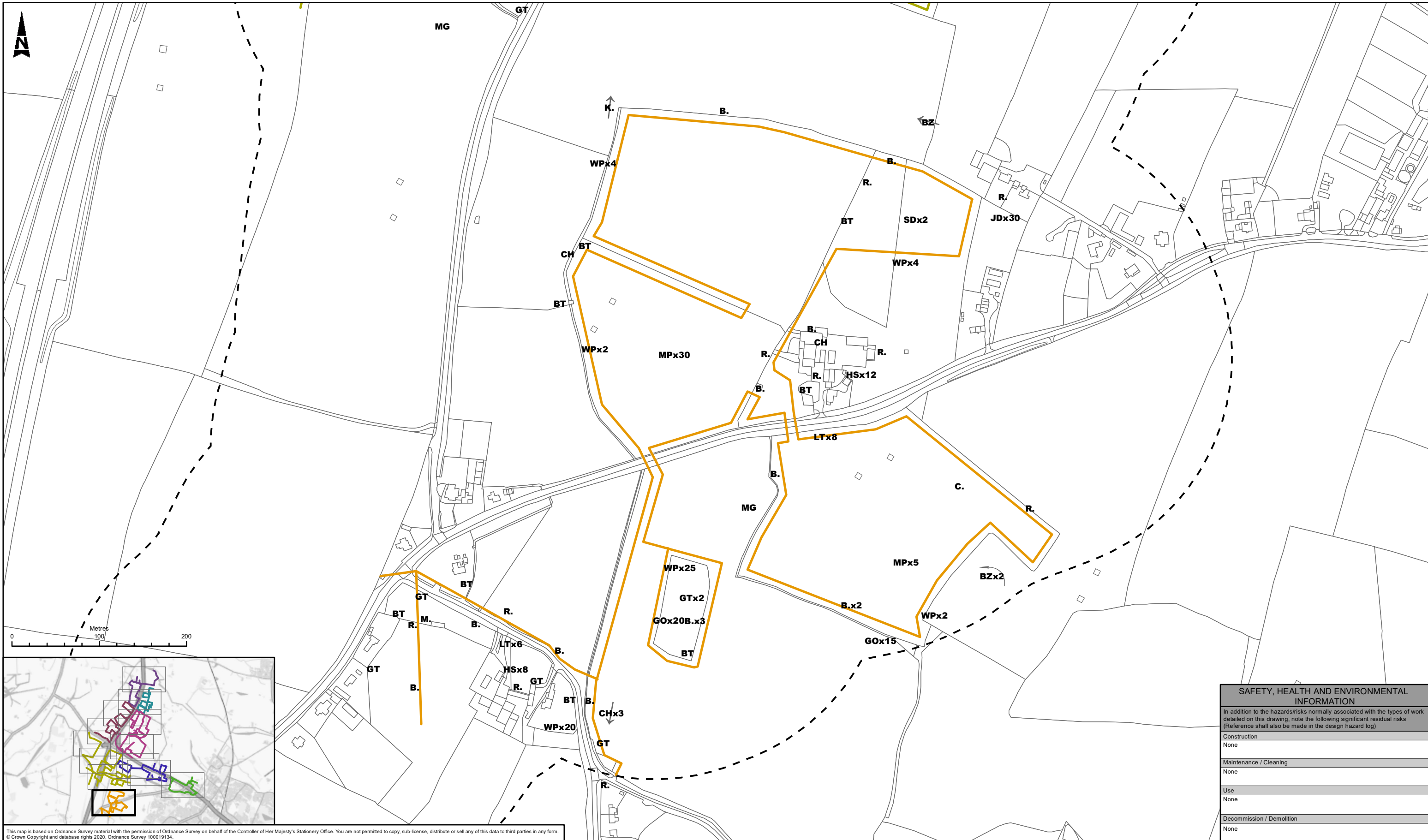
LEGEND	
	250M STUDY AREA
	TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8
	TRANSECT 9
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KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 10 of 13
Rev: P03			



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

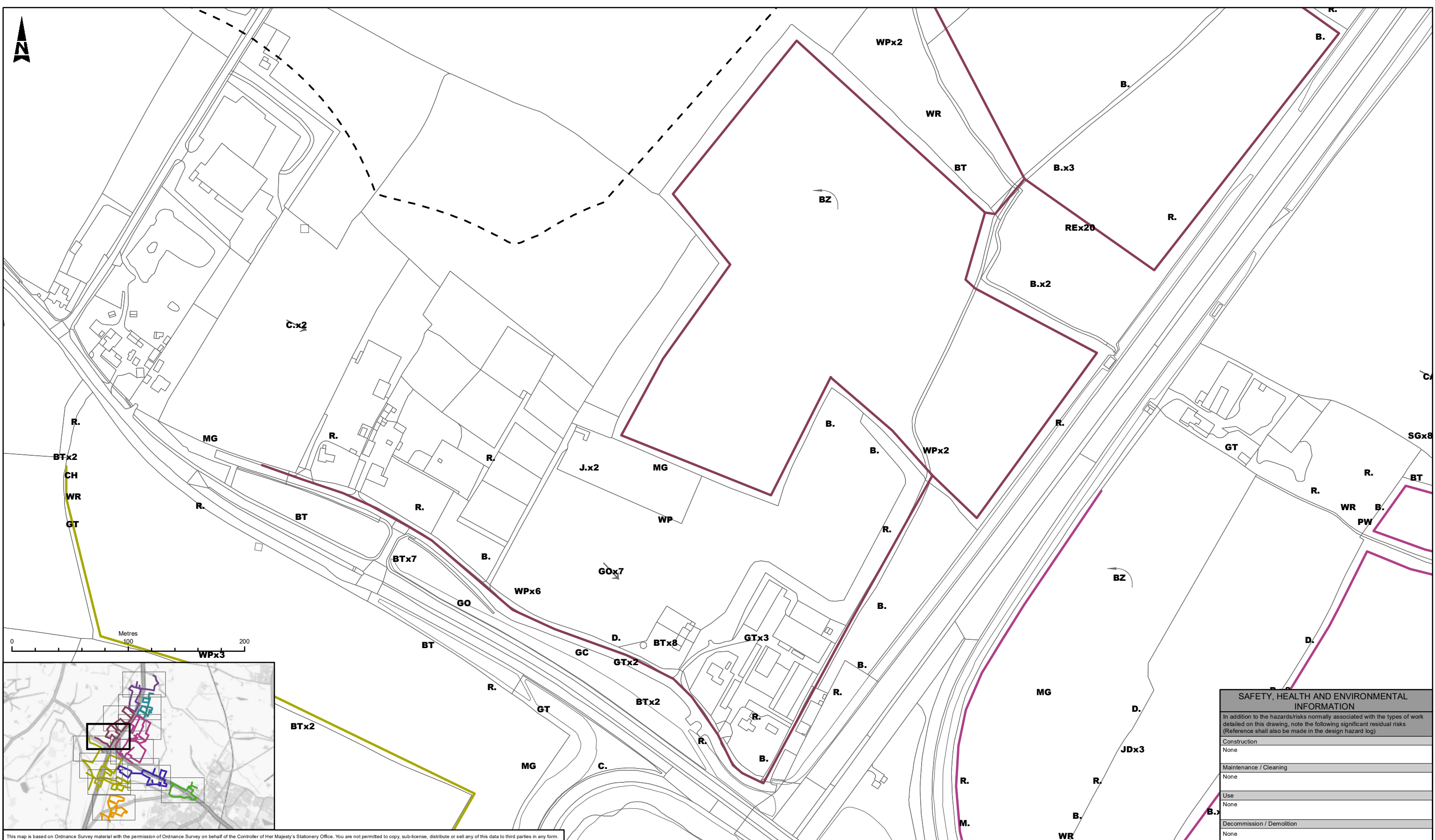
LEGEND	
	250M STUDY AREA
	TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8
	TRANSECT 9
	BEHAVIOURS FORAGING IN FLIGHT FLYING
	SPECIES (BTO CODES) B. BLACKBIRD BT BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REDWING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000026		
Location	Type	Role	Number
A3	1:4,000	Ref: 5214106	11 of 13
Original Size:	Scale	Project Ref:	Sheet
A3	1:4,000	5214106	11 of 13
Rev:			P03



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

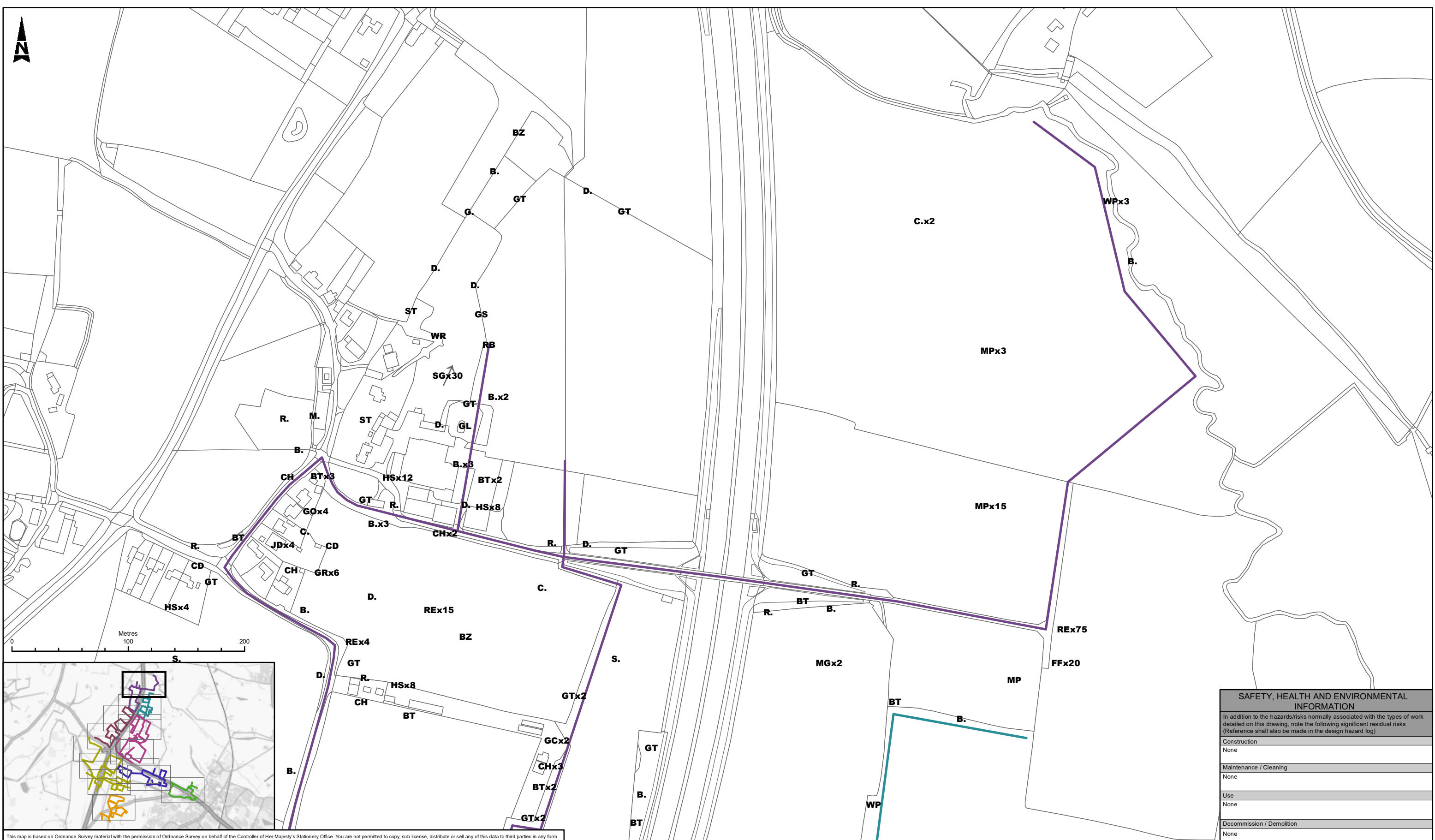
LEGEND	
	250M STUDY AREA
	TRANSECT 9
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	BEHAVIOURS
	FORAGING IN FLIGHT
	FLYING
	SPECIES (BTO CODES)
B.	BLACKBIRD
BT	BLUE TIT
BH	BLACK-HEADED GULL
BZ	BUZZARD
C.	CARRION CROW
CD	COLLARED DOVE
CA	CORMORANT
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FF	FIELDFARE
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HS	HOUSE SPARROW
J.	JAY
JD	JACKDAW
K.	KESTREL
KF	KINGFISHER
L.	LAPWING
LB	LESSER BLACK-BACKED GULL
LT	LONG-TAILED TIT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
MP	MEADOW PIPIT
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RE	REED WING
RB	REED BUNTING
RN	RAVEN
RO	ROOK
S.	SKYLARK
SC	STONECHAT
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN

Description							
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	

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 COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9E WINTERING BIRD SURVEY RESULTS JANUARY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000026	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 13 of 13 Rev: P03

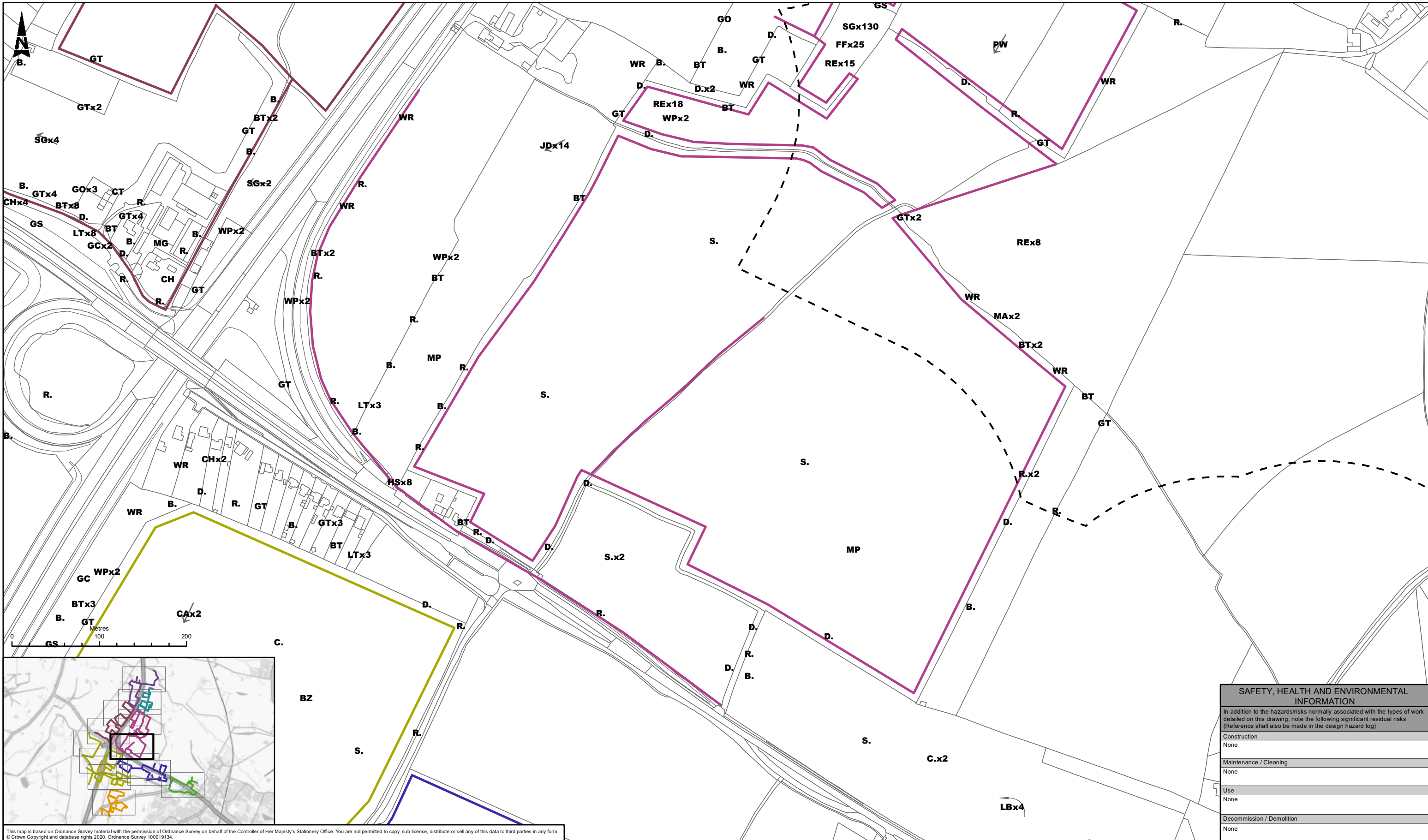


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Symbol]	250M STUDY AREA	[Symbol]	FORAGING IN FLIGHT	CD	COLLARED DOVE
[Line]	TRANSECT 2	[Symbol]	FLYING	CA	CORMORANT
[Line]	TRANSECT 3	[Symbol]		CH	CHAFFINCH
[Line]	TRANSECT 4	[Symbol]		CT	COAL TIT
[Line]	TRANSECT 5	[Symbol]		D.	DUNNOCK
[Line]	TRANSECT 6	[Symbol]		FF	FIELDFARE
[Line]	TRANSECT 7	[Symbol]		G.	GREEN WOODPECKER
[Line]	TRANSECT 8	[Symbol]		B.	BLACKBIRD
[Line]	TRANSECT 9	[Symbol]		BT	BLUE TIT
		[Symbol]		BZ	BUZZARD
		[Symbol]		C.	CARRION CROW
		[Symbol]		GL	GREY WAGTAIL
		[Symbol]		GO	GOLDFINCH
		[Symbol]		GR	GREENFINCH
		[Symbol]		GS	GREAT SPOTTED WOODPECKER
		[Symbol]		GT	GREAT TIT
		[Symbol]		HG	HERRING GULL
		[Symbol]		HS	HOUSE SPARROW
		[Symbol]		J.	JAY
		[Symbol]		JD	JACKDAW
		[Symbol]		K.	KESTREL
		[Symbol]		KF	KINGFISHER
		[Symbol]		KT	RED KITE
		[Symbol]		LB	LESSER BLACK-BACKED GULL
		[Symbol]		LT	LONG-TAILED TIT
		[Symbol]		M.	MISTLE THRUSH
		[Symbol]		MA	MALLARD
		[Symbol]		MG	MAGPIE
		[Symbol]		MP	MEADOW PIPIT
		[Symbol]		PW	PIED WAGTAIL
		[Symbol]		PH	PHEASANT
		[Symbol]		R.	ROBIN
		[Symbol]		RE	REDWING
		[Symbol]		RN	RAVEN
		[Symbol]		RO	ROOK
		[Symbol]		S.	SKYLARK
		[Symbol]		SD	STOCK DOVE
		[Symbol]		SG	STARLING
		[Symbol]		SH	SPARROWHAWK
		[Symbol]		ST	SONG THRUSH
		[Symbol]		WP	WOOD PIGEON
		[Symbol]		WR	WREN

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514		Drawing Number	
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com		Project Originator Volume	
Description		Client		Gloucestershire COUNTY COUNCIL		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027	
Description		Status		Revision		Location	
Description		PUBLISHED		A1		A3	
Description		Revision		Drawn		Scale	
Description		P03		SD		1:3,000	
Description		Checked		Reviewed		Project Ref.	
Description		RD		CC		5214106	
Description		Authorised		Issue Date		Sheet	
Description		LJ		01/05/23		1 of 13	
Description		Number		Rev.		P03	
Description		1		1			



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND				
250M STUDY AREA	BEHAVIOURS			
TRANSECT 2	FORAGING IN FLIGHT			
TRANSECT 3	FLYING			
TRANSECT 4	SPECIES (BTO CODES)			
TRANSECT 5	B. BLACKBIRD			
TRANSECT 6	BT BLUE TIT			
TRANSECT 7	BZ BUZZARD			
TRANSECT 8	C. CARRION CROW			
TRANSECT 9				
CD COLLARED DOVE	GL GREY WAGTAIL	JD JACKDAW	MG MAGPIE	S. SKYLARK
CA CORMORANT	GO GOLDFINCH	K. KESTREL	MP MEADOW PIPIT	SD STOCK DOVE
CH CHAFFINCH	GR GREENFINCH	KF KINGFISHER	PW PIED WAGTAIL	SG STARLING
CT COAL TIT	GS GREAT SPOTTED WOODPECKER	KT RED KITE	PH PHEASANT	SH SPARROWHAWK
D. DUNNOCK	GT GREAT TIT	LB LESSER BLACK-BACKED GULL	R. ROBIN	ST SONG THRUSH
FF FIELDFARE	HG HERRING GULL	LT LONG-TAILED TIT	RE REDWING	WP WOOD PIGEON
G. GREEN WOODPECKER	HS HOUSE SPARROW	M. MISTLE THRUSH	RB REED BUNTING	WR WREN
J. JAY		MA MALLARD		

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

Drawing Suitability: **PUBLISHED**

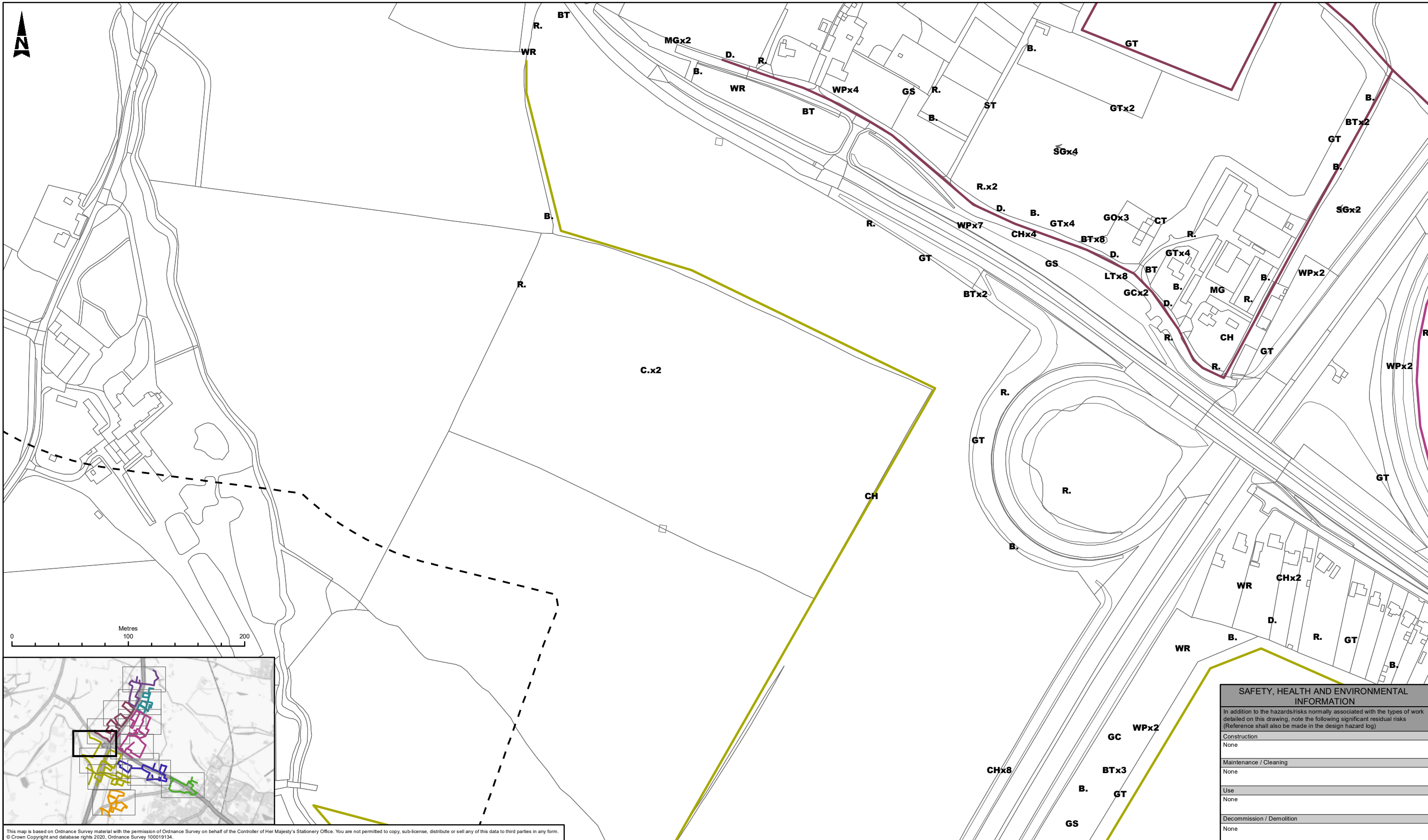
Status: **A1**

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Client: **Gloucestershire COUNTY COUNCIL**

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 4 of 13 Rev: P03



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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

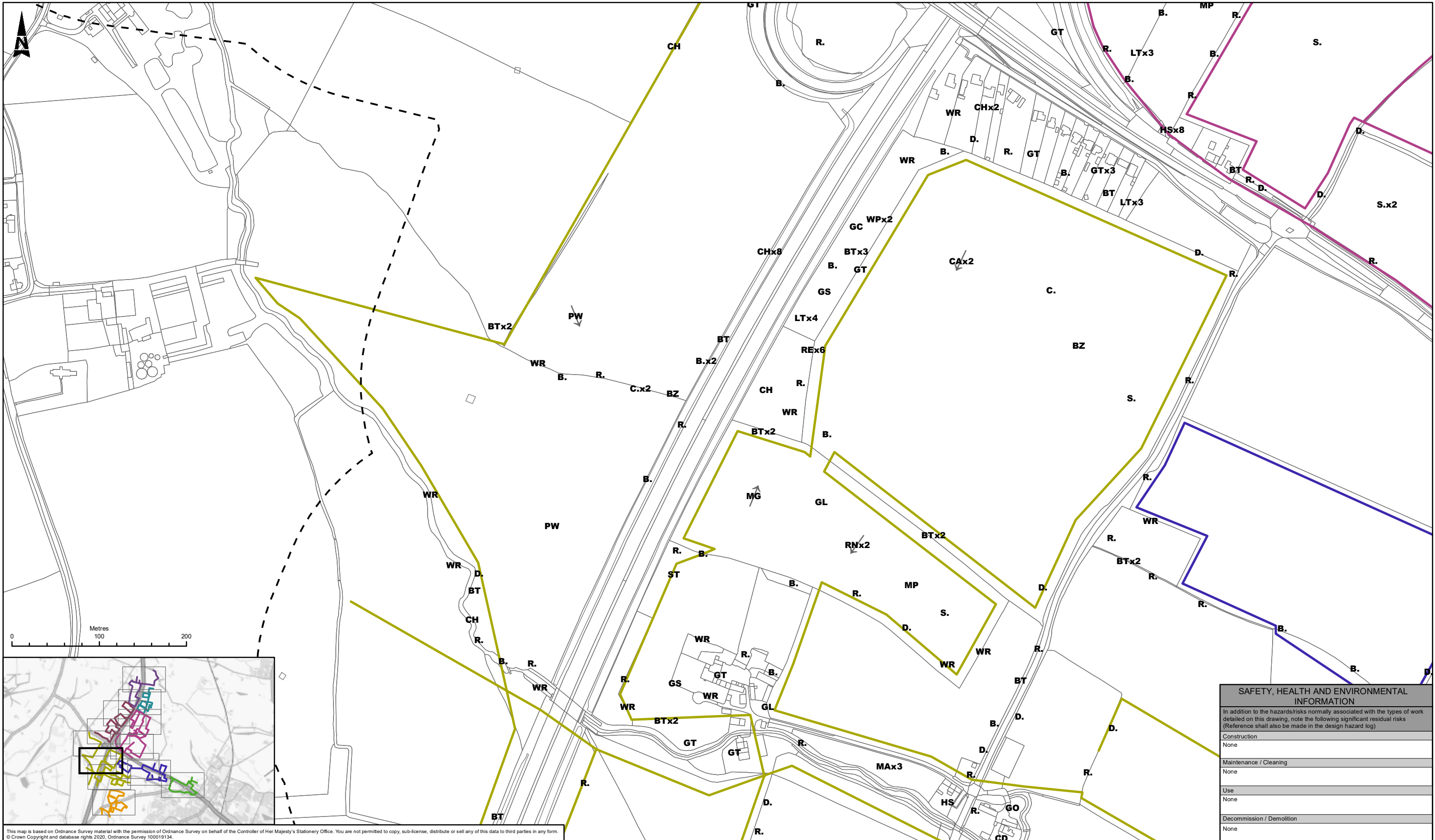
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	TRANSECT 2		FLYING	CA	CORMORANT
	TRANSECT 3			CH	CHAFFINCH
	TRANSECT 4			CT	COAL TIT
	TRANSECT 5			D.	DUNNOCK
	TRANSECT 6	B.	BLACKBIRD	FF	FIELDFARE
	TRANSECT 7	BT	BLUE TIT	G.	GREEN WOODPECKER
	TRANSECT 8	BZ	BUZZARD	GC	GOLDCREST
	TRANSECT 9	C.	CARRION CROW	GL	GREY WAGTAIL
		GD	GOLDFINCH	GO	GOLDFINCH
		GR	GREENFINCH	GS	GREAT SPOTTED WOODPECKER
		GT	GREAT TIT	GT	GREAT TIT
		HG	HERRING GULL	HS	HOUSE SPARROW
		J.	JAY	J.	JAY
		JD	JACKDAW	JD	JACKDAW
		K.	KESTREL	K.	KESTREL
		KF	KINGFISHER	KF	KINGFISHER
		KT	RED KITE	KT	RED KITE
		LB	LESSER BLACK-BACKED GULL	LB	LESSER BLACK-BACKED GULL
		LT	LONG-TAILED TIT	LT	LONG-TAILED TIT
		M.	MISTLE THRUSH	M.	MISTLE THRUSH
		MA	MALLARD	MA	MALLARD
		MG	MAGPIE	MG	MAGPIE
		MP	MEADOW PIPIT	MP	MEADOW PIPIT
		PW	PIED WAGTAIL	PW	PIED WAGTAIL
		PH	PHEASANT	PH	PHEASANT
		RE	REDWING	RE	REDWING
		RN	RAVEN	RN	RAVEN
		RO	ROOK	RO	ROOK
		S.	SKYLARK	S.	SKYLARK
		SD	STOCK DOVE	SD	STOCK DOVE
		SG	STARLING	SG	STARLING
		SH	SPARROWHAWK	SH	SPARROWHAWK
		ST	SONG THRUSH	ST	SONG THRUSH
		WP	WOOD PIGEON	WP	WOOD PIGEON
		WR	WREN	WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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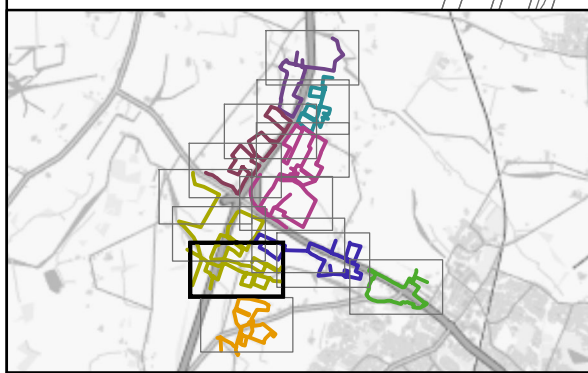
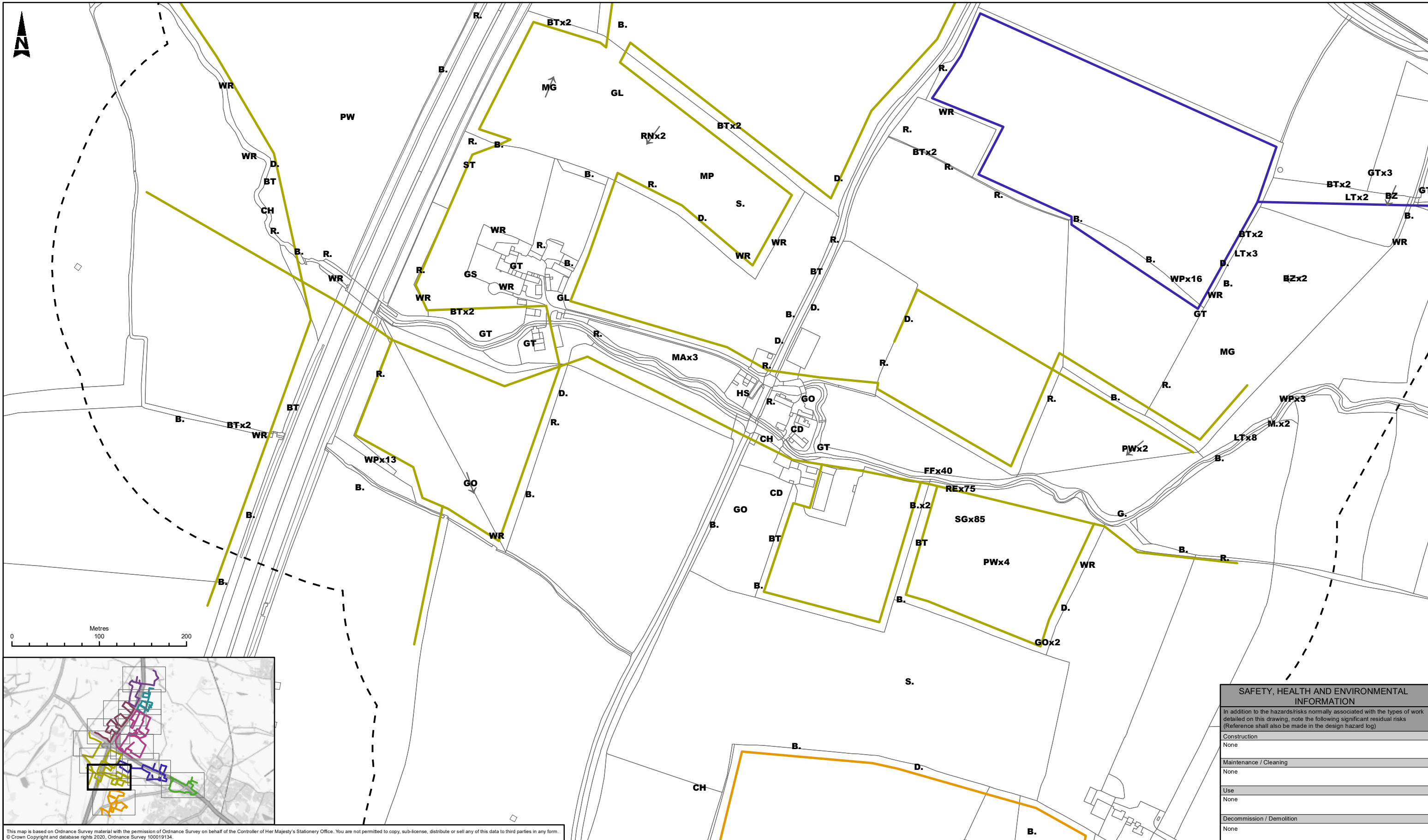
Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000027		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	Sheet: 5 of 13
Original Size:	Scale:	Project Ref:	Rev:
A3	1:3,000	5214106	P03



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LEGEND										ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com				PUBLISHED Status: A1		Project Title M5 Junction 10 Improvements Scheme																																																																																																																																																						
<table border="0"> <tr> <td> 250M STUDY AREA</td> <td>BEHAVIOURS</td> <td>CD COLLARED DOVE</td> <td>GL GREY WAGTAIL</td> <td>JD JACKDAW</td> <td>MG MAGPIE</td> <td>S. SKYLARK</td> <td> FORAGING IN FLIGHT</td> <td>CA CORMORANT</td> <td>GO GOLDFINCH</td> <td>K. KESTREL</td> <td>MP MEADOW PIPIT</td> <td>SD STOCK DOVE</td> </tr> <tr> <td> TRANSECT 2</td> <td> FLYING</td> <td>CH CHAFFINCH</td> <td>GR GREENFINCH</td> <td>KF KINGFISHER</td> <td>PW PIED WAGTAIL</td> <td>SG STARLING</td> <td></td> <td>CT COAL TIT</td> <td>GS GREAT SPOTTED WOODPECKER</td> <td>KT RED KITE</td> <td>PH PHEASANT</td> <td>SH SPARROWHAWK</td> </tr> <tr> <td> TRANSECT 3</td> <td>SPECIES (BTO CODES)</td> <td>D. DUNNOCK</td> <td>GT GREAT TIT</td> <td>LB LESSER BLACK-BACKED GULL</td> <td>R. ROBIN</td> <td>ST SONG THRUSH</td> <td></td> <td>D. DUNNOCK</td> <td>HS HERRING GULL</td> <td>LT LONG-TAILED TIT</td> <td>RB REED BUNTING</td> <td>WR WREN</td> </tr> <tr> <td> TRANSECT 4</td> <td>B. BLACKBIRD</td> <td>FF FIELDFARE</td> <td>HG HOUSE SPARROW</td> <td>M. MISTLE THRUSH</td> <td>RN RAVEN</td> <td></td> <td></td> <td>BT BLUE TIT</td> <td>J. JAY</td> <td>MA MALLARD</td> <td>RO ROOK</td> <td></td> </tr> <tr> <td> TRANSECT 5</td> <td>BZ BUZZARD</td> <td>G. GREEN WOODPECKER</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C. CARRION CROW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> TRANSECT 6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> TRANSECT 7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> TRANSECT 8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> TRANSECT 9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										250M STUDY AREA	BEHAVIOURS	CD COLLARED DOVE	GL GREY WAGTAIL	JD JACKDAW	MG MAGPIE	S. SKYLARK	FORAGING IN FLIGHT	CA CORMORANT	GO GOLDFINCH	K. KESTREL	MP MEADOW PIPIT	SD STOCK DOVE	TRANSECT 2	FLYING	CH CHAFFINCH	GR GREENFINCH	KF KINGFISHER	PW PIED WAGTAIL	SG STARLING		CT COAL TIT	GS GREAT SPOTTED WOODPECKER	KT RED KITE	PH PHEASANT	SH SPARROWHAWK	TRANSECT 3	SPECIES (BTO CODES)	D. DUNNOCK	GT GREAT TIT	LB LESSER BLACK-BACKED GULL	R. ROBIN	ST SONG THRUSH		D. DUNNOCK	HS HERRING GULL	LT LONG-TAILED TIT	RB REED BUNTING	WR WREN	TRANSECT 4	B. BLACKBIRD	FF FIELDFARE	HG HOUSE SPARROW	M. MISTLE THRUSH	RN RAVEN			BT BLUE TIT	J. JAY	MA MALLARD	RO ROOK		TRANSECT 5	BZ BUZZARD	G. GREEN WOODPECKER						C. CARRION CROW					TRANSECT 6													TRANSECT 7													TRANSECT 8													TRANSECT 9													<table border="1"> <tr> <th>Description</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td>PUBLISHED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>01/05/23</td> </tr> </table>				Description	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED						01/05/23	<table border="1"> <tr> <th>Location</th> <th>Type</th> <th>Project</th> <th>Role</th> <th>Number</th> <th>Rev.</th> </tr> <tr> <td>A3</td> <td>1:4,000</td> <td>5214106</td> <td></td> <td>6 of 13</td> <td>P03</td> </tr> </table>		Location	Type	Project	Role	Number	Rev.	A3	1:4,000	5214106		6 of 13	P03	<table border="1"> <tr> <td>Project</td> <td>Originator</td> <td>Volume</td> </tr> <tr> <td>GCCM5J10 - ATK - EBD</td> <td>ZZ - GS - GI - 000027</td> <td></td> </tr> </table>		Project	Originator	Volume	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000027	
250M STUDY AREA	BEHAVIOURS	CD COLLARED DOVE	GL GREY WAGTAIL	JD JACKDAW	MG MAGPIE	S. SKYLARK	FORAGING IN FLIGHT	CA CORMORANT	GO GOLDFINCH	K. KESTREL	MP MEADOW PIPIT	SD STOCK DOVE																																																																																																																																																										
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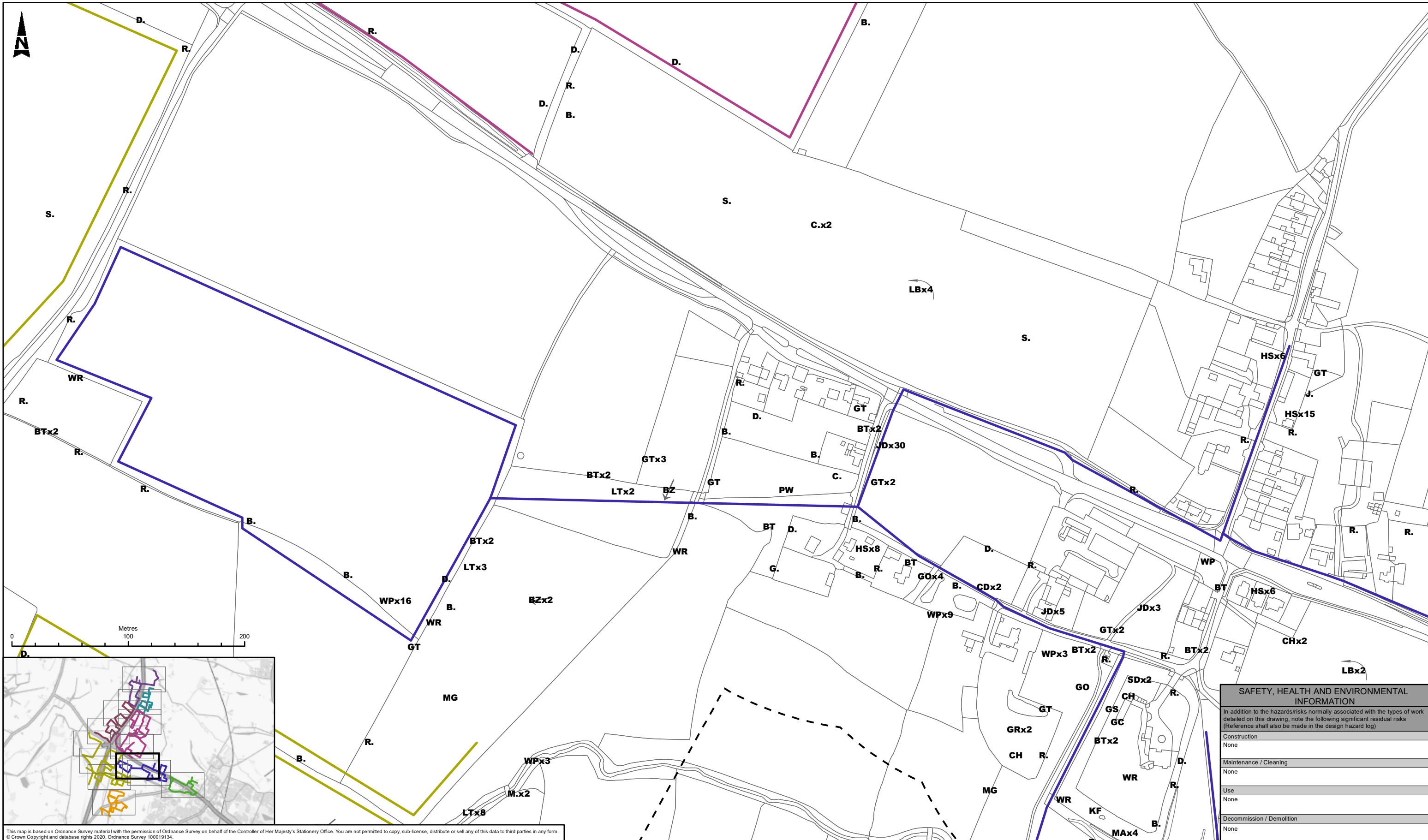
SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	CD	COLLARED DOVE
	TRANSECT 2		FLYING	CA	CORMORANT
	TRANSECT 3			CH	CHAFFINCH
	TRANSECT 4			CT	COAL TIT
	TRANSECT 5			D.	DUNNOCK
	TRANSECT 6	B.	BLACKBIRD	FF	FIELDFARE
	TRANSECT 7	BT	BLUE TIT	G.	GREEN WOODPECKER
	TRANSECT 8	BZ	BUZZARD	GC	GOLDCREST
	TRANSECT 9	C.	CARRION CROW	GL	GREY WAGTAIL
		GD	GOLDFINCH	J.D	JACKDAW
		GR	GREENFINCH	K.	KESTREL
		GS	GREAT SPOTTED WOODPECKER	KF	KINGFISHER
		GT	GREAT TIT	KT	RED KITE
		HG	HERRING GULL	LB	LESSER BLACK-BACKED GULL
		HS	HOUSE SPARROW	LT	LONG-TAILED TIT
		J.	JAY	M.	MISTLE THRUSH
		MA	MALLARD	MG	MAGPIE
		MP	MEADOW PIPIT	SD	STOCK DOVE
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		PH	PHEASANT	SH	SPARROWHAWK
		R.	ROBIN	ST	SONG THRUSH
		RE	REDWING	WP	WOOD PIGEON
		RB	REED BUNTING	WR	WREN
		RN	RAVEN		
		RO	ROOK		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvements Scheme
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Drawing Number
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Drawing Number
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Original Size: A3 Scale: 1:4,000 Project Ref: 5214106 Sheet: 7 of 13 Rev: P03

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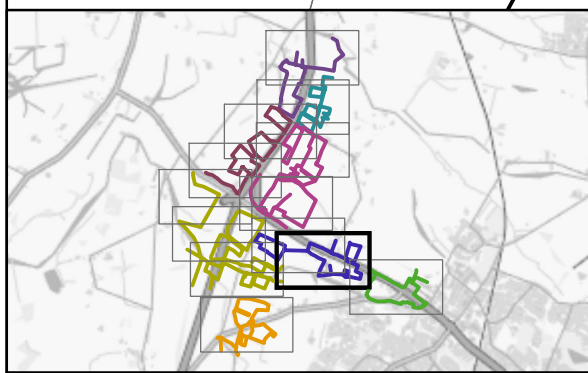
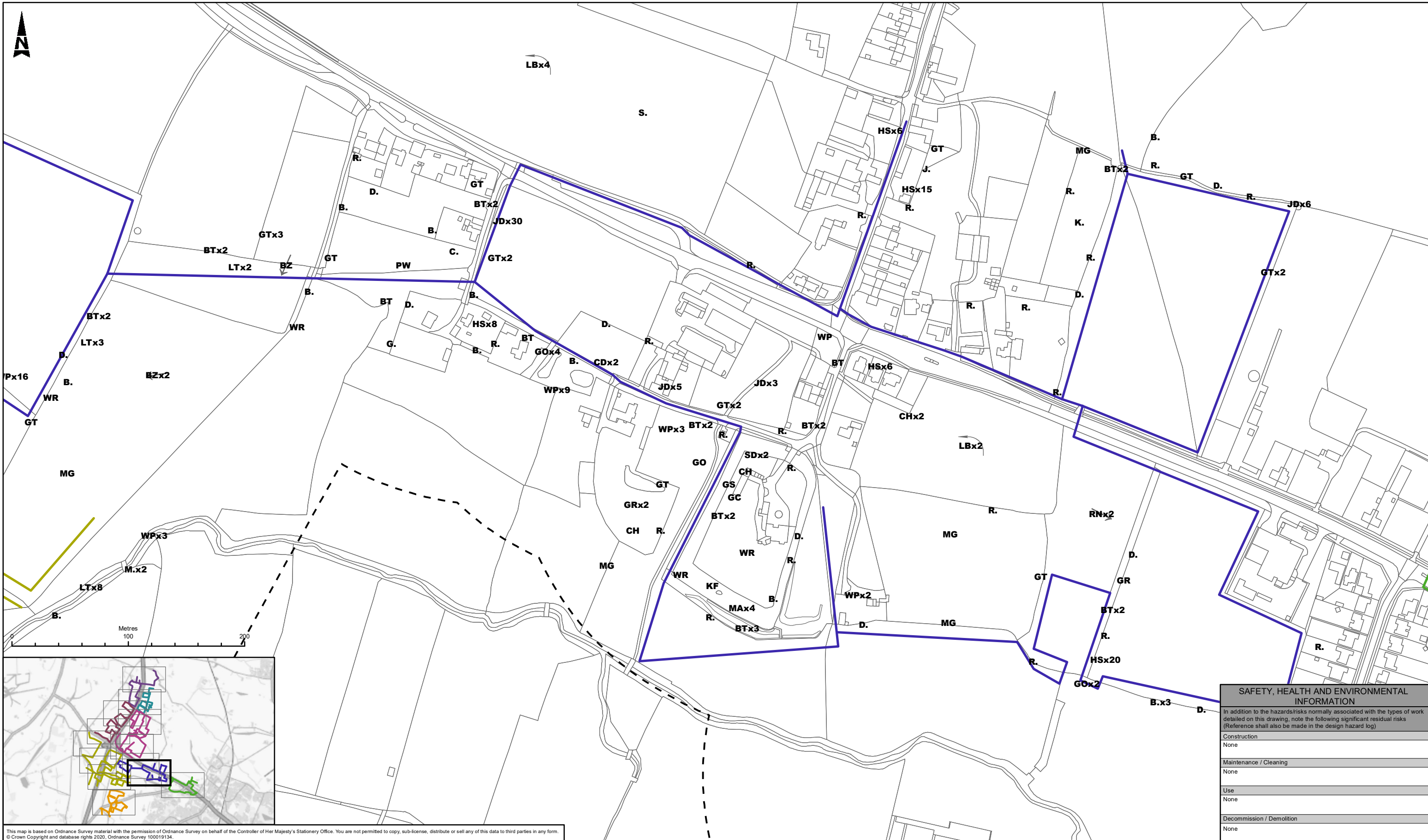


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Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Symbol]	250M STUDY AREA	[Symbol]	FORAGING IN FLIGHT	[Symbol]	B. BLACKBIRD
[Symbol]	TRANSECT 2	[Symbol]	FLYING	[Symbol]	BT BLUE TIT
[Symbol]	TRANSECT 3	[Symbol]		[Symbol]	BZ BUZZARD
[Symbol]	TRANSECT 4	[Symbol]		[Symbol]	C. CARRION CROW
[Symbol]	TRANSECT 5	[Symbol]		[Symbol]	CD COLLARED DOVE
[Symbol]	TRANSECT 6	[Symbol]		[Symbol]	CA CORMORANT
[Symbol]	TRANSECT 7	[Symbol]		[Symbol]	CH CHAFFINCH
[Symbol]	TRANSECT 8	[Symbol]		[Symbol]	CT COAL TIT
[Symbol]	TRANSECT 9	[Symbol]		[Symbol]	D. DUNNOCK
[Symbol]		[Symbol]		[Symbol]	FF FIELDFARE
[Symbol]		[Symbol]		[Symbol]	G. GREEN WOODPECKER
[Symbol]		[Symbol]		[Symbol]	GL GREY WAGTAIL
[Symbol]		[Symbol]		[Symbol]	GO GOLDFINCH
[Symbol]		[Symbol]		[Symbol]	GR GREENFINCH
[Symbol]		[Symbol]		[Symbol]	GS GREAT SPOTTED WOODPECKER
[Symbol]		[Symbol]		[Symbol]	GT GREAT TIT
[Symbol]		[Symbol]		[Symbol]	HG HERRING GULL
[Symbol]		[Symbol]		[Symbol]	HS HOUSE SPARROW
[Symbol]		[Symbol]		[Symbol]	J. JAY
[Symbol]		[Symbol]		[Symbol]	JD JACKDAW
[Symbol]		[Symbol]		[Symbol]	K. KESTREL
[Symbol]		[Symbol]		[Symbol]	KF KINGFISHER
[Symbol]		[Symbol]		[Symbol]	LB LESSER BLACK-BACKED GULL
[Symbol]		[Symbol]		[Symbol]	LT LONG-TAILED TIT
[Symbol]		[Symbol]		[Symbol]	M. MISTLE THRUSH
[Symbol]		[Symbol]		[Symbol]	MA MALLARD
[Symbol]		[Symbol]		[Symbol]	MG MAGPIE
[Symbol]		[Symbol]		[Symbol]	MP MEADOW PIPIT
[Symbol]		[Symbol]		[Symbol]	PW PIED WAGTAIL
[Symbol]		[Symbol]		[Symbol]	PH PHEASANT
[Symbol]		[Symbol]		[Symbol]	RE REDWING
[Symbol]		[Symbol]		[Symbol]	RO ROOK
[Symbol]		[Symbol]		[Symbol]	S. SKYLARK
[Symbol]		[Symbol]		[Symbol]	SD STOCK DOVE
[Symbol]		[Symbol]		[Symbol]	SG STARLING
[Symbol]		[Symbol]		[Symbol]	SH SPARROWHAWK
[Symbol]		[Symbol]		[Symbol]	ST SONG THRUSH
[Symbol]		[Symbol]		[Symbol]	WP WOOD PIGEON
[Symbol]		[Symbol]		[Symbol]	WR WREN

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Title		Drawing Number		Project Originator Volume	
ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027		GCM5J10 - ATK - EBD ZZ - GS - GI - 000027	
Member of the SNC-Lavalin Group		Tel: 08000 514 514 www.atkinsglobal.com		Client		Location Type Role Number	
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Project Ref: 5214106		Sheet: 8 of 13		Rev: P03		Issue Date: 01/05/23	



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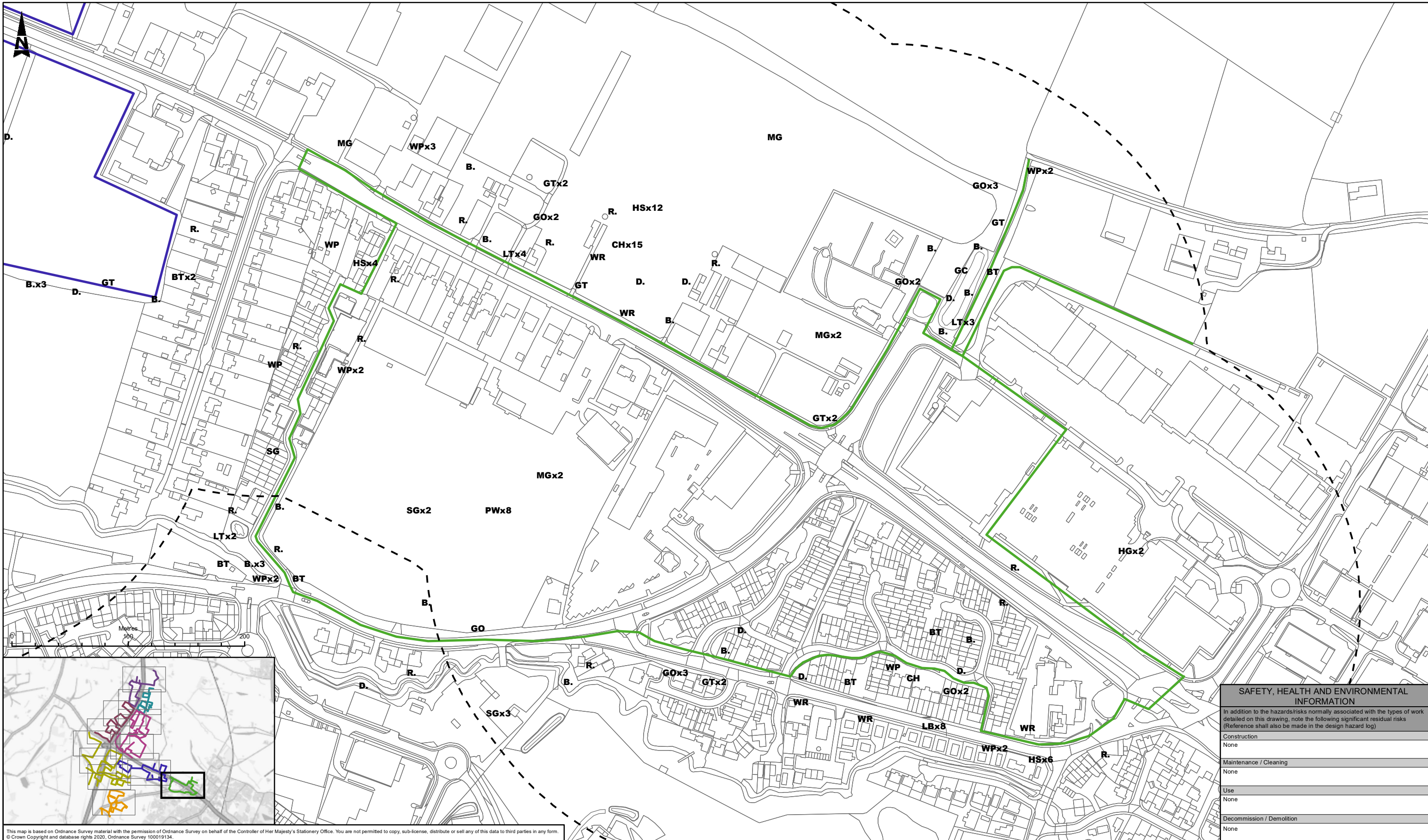
LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Dashed Box]	250M STUDY AREA	[Arrow]	FORAGING IN FLIGHT	CD	COLLARED DOVE
[Blue Line]	TRANSECT 2	[Arrow]	FLYING	CA	CORMORANT
[Green Line]	TRANSECT 3	[Arrow]		CH	CHAFFINCH
[Pink Line]	TRANSECT 4	[Arrow]		CT	COAL TIT
[Yellow Line]	TRANSECT 5	[Arrow]		D.	DUNNOCK
[Purple Line]	TRANSECT 6	[Arrow]		FF	FIELDFARE
[Light Green Line]	TRANSECT 7	[Arrow]		G.	GREEN WOODPECKER
[Orange Line]	TRANSECT 8	[Arrow]		GC	GOLDCREST
[Red Line]	TRANSECT 9	[Arrow]		GL	GREY WAGTAIL
		[Arrow]		GO	GOLDFINCH
		[Arrow]		GR	GREENFINCH
		[Arrow]		GS	GREAT SPOTTED WOODPECKER
		[Arrow]		GT	GREAT TIT
		[Arrow]		HG	HERRING GULL
		[Arrow]		HS	HOUSE SPARROW
		[Arrow]		J.	JAY
		[Arrow]		JD	JACKDAW
		[Arrow]		K.	KESTREL
		[Arrow]		KF	KINGFISHER
		[Arrow]		KT	RED KITE
		[Arrow]		LB	LESSER BLACK-BACKED GULL
		[Arrow]		LT	LONG-TAILED TIT
		[Arrow]		M.	MISTLE THRUSH
		[Arrow]		MA	MALLARD
		[Arrow]		MG	MAGPIE
		[Arrow]		MP	MEADOW PIPIT
		[Arrow]		PW	PIED WAGTAIL
		[Arrow]		PH	PHEASANT
		[Arrow]		R.	ROBIN
		[Arrow]		RE	REDWING
		[Arrow]		RN	RAVEN
		[Arrow]		RO	ROOK
		[Arrow]		S.	SKYLARK
		[Arrow]		SD	STOCK DOVE
		[Arrow]		SG	STARLING
		[Arrow]		SH	SPARROWHAWK
		[Arrow]		ST	SONG THRUSH
		[Arrow]		WP	WOOD PIGEON
		[Arrow]		WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED		A1	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000027 Volume: 9 of 13
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	9 of 13
Rev	P03



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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

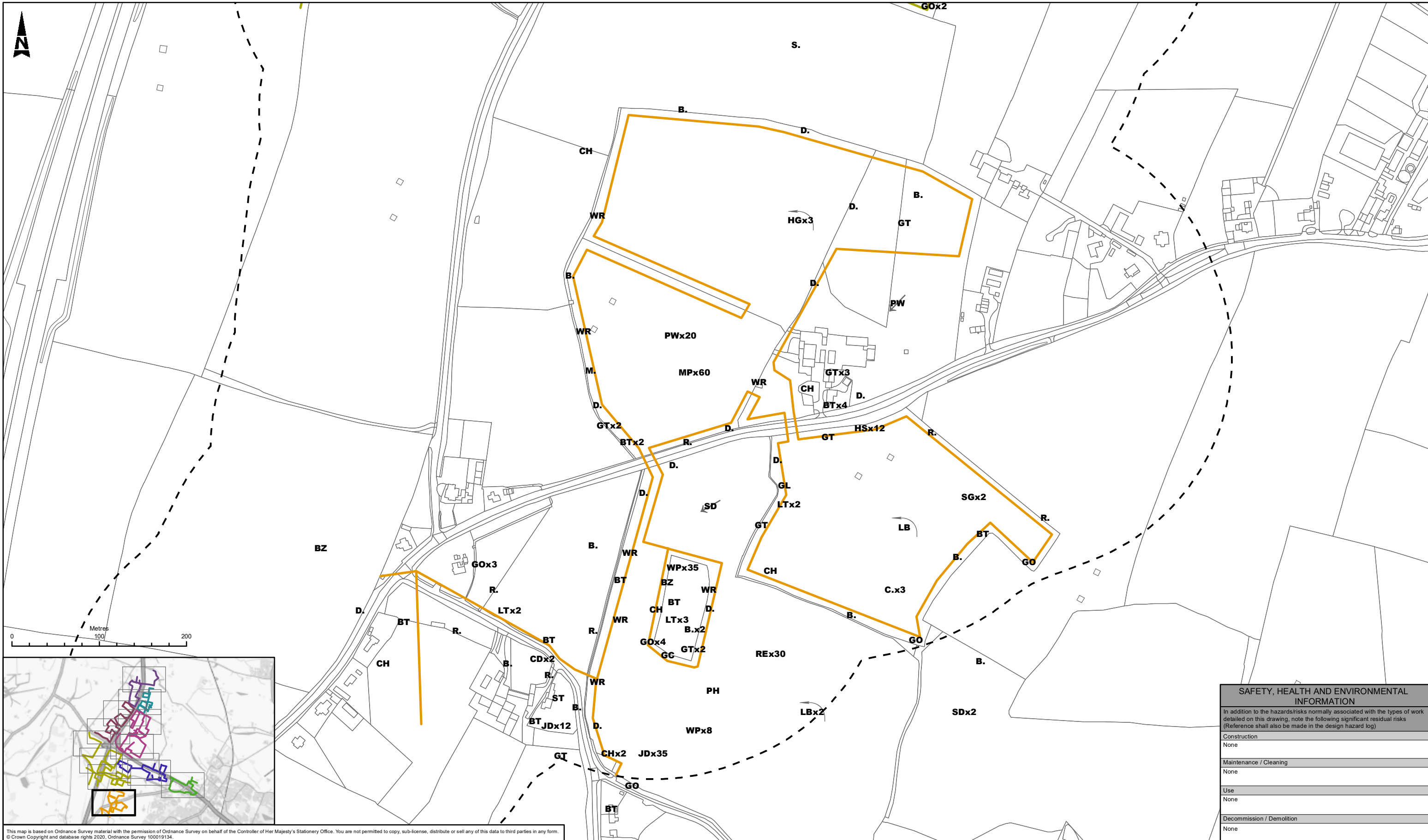
LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
[Dashed Box]	250M STUDY AREA	[Arrow]	FORAGING IN FLIGHT	B.	BLACKBIRD
[Green Line]	TRANSECT 2	[Arrow]	FLYING	BT	BLUE TIT
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[Blue Line]	TRANSECT 9			D.	DUNNOCK
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				ST	SONG THRUSH
				WP	WOOD PIGEON
				WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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 COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 00027	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 10 of 13 Rev: P03

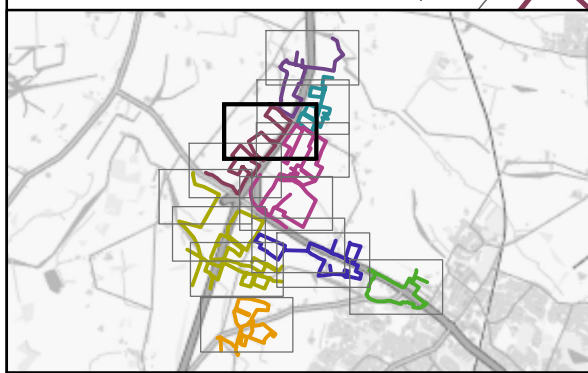
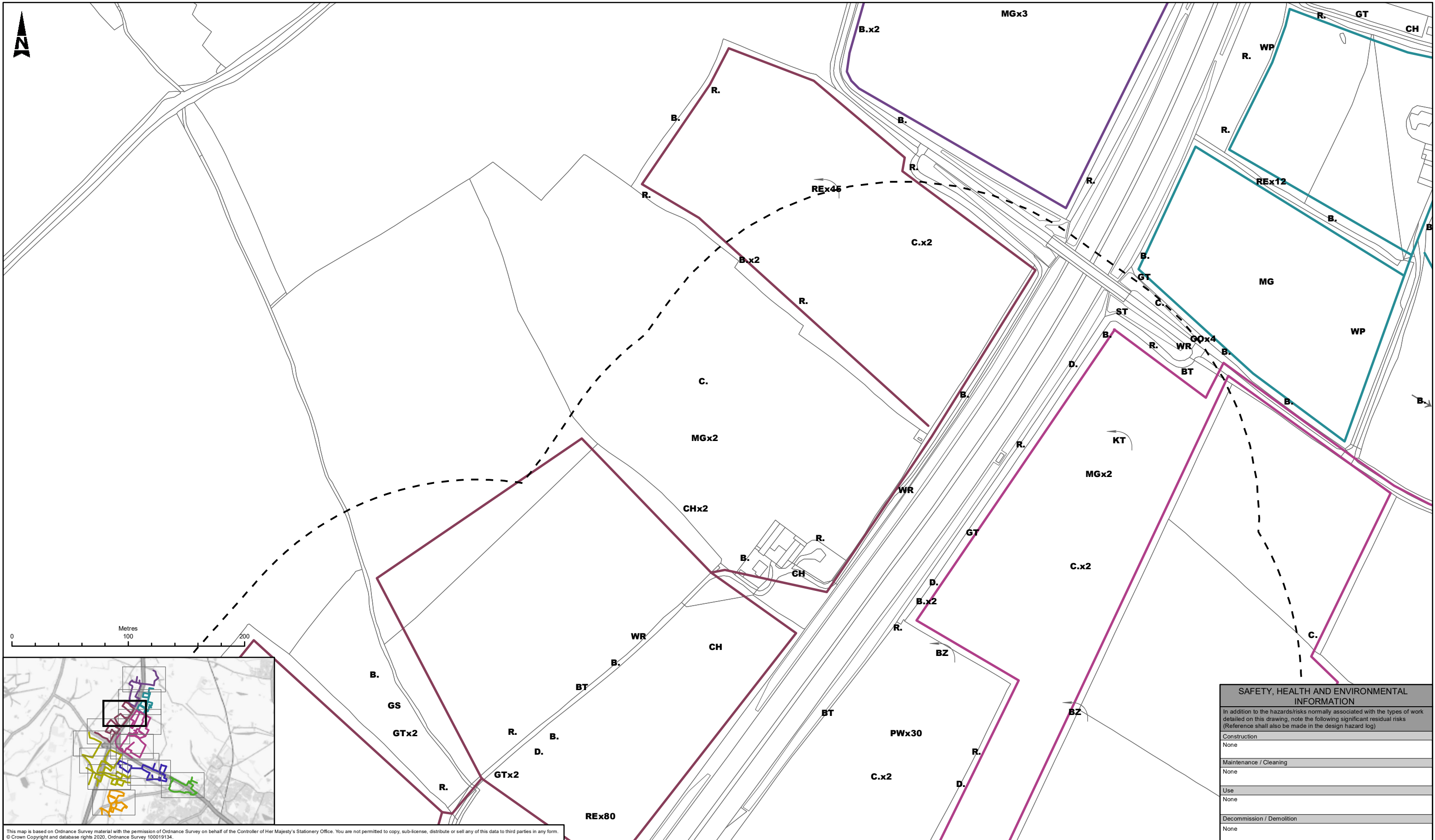


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		GR	GREENFINCH	KF	KINGFISHER
		GS	GREAT SPOTTED WOODPECKER	KT	RED KITE
		GT	GREAT TIT	LB	LESSER BLACK-BACKED GULL
		HG	HERRING GULL	LT	LONG-TAILED TIT
		HS	HOUSE SPARROW	M.	MISTLE THRUSH
		J.	JAY	MA	MALLARD
		MG	MAGPIE	S.	SKYLARK
		MP	MEADOW PIPIT	SD	STOCK DOVE
		PW	PIED WAGTAIL	SG	STARLING
		PH	PHEASANT	SH	SPARROWHAWK
		R.	ROBIN	ST	SONG THRUSH
		RE	REDWING	WP	WOOD PIGEON
		RN	RAVEN	WR	WREN
		RO	ROOK		

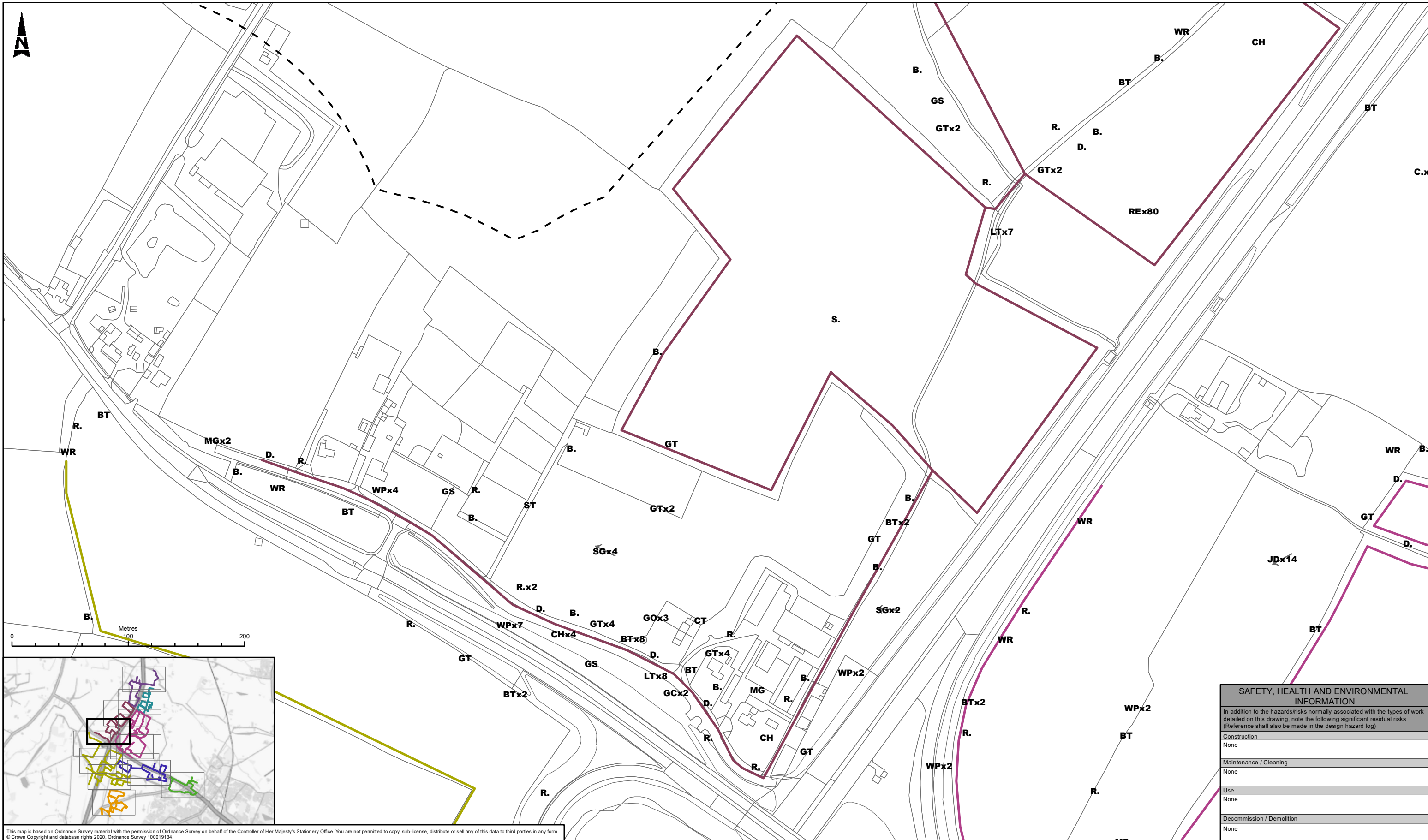
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514			
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com			
Description		Client		Gloucestershire COUNTY COUNCIL		Drawing Number	
Description		PUBLISHED		A1		Project Originator Volume	
Description		A1		P03		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027	
Description		A1		P03		Location Type Role Number	
Description		A1		P03		Scale Project Ref Sheet Rev	
Description		A1		P03		1:4,000 5214106 11 of 13 P03	



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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		BEHAVIOURS		SPECIES (BTO CODES)	
	250M STUDY AREA		FORAGING IN FLIGHT	B.	BLACKBIRD
	TRANSECT 2		FLYING	BT	BLUE TIT
	TRANSECT 3			BZ	BUZZARD
	TRANSECT 4			C.	CARRION CROW
	TRANSECT 5			CD	COLLARED DOVE
	TRANSECT 6			CA	CORMORANT
	TRANSECT 7			CH	CHAFFINCH
	TRANSECT 8			CH	CHAFFINCH
	TRANSECT 9			CT	COAL TIT
				D.	DUNNOCK
				FF	FIELDFARE
				G.	GREEN WOODPECKER
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GR	GREENFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				HG	HERRING GULL
				HS	HOUSE SPARROW
				J.	JAY
				GC	GOLDCREST
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GR	GREENFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
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				J.	JAY
				GC	GOLDCREST
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GR	



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

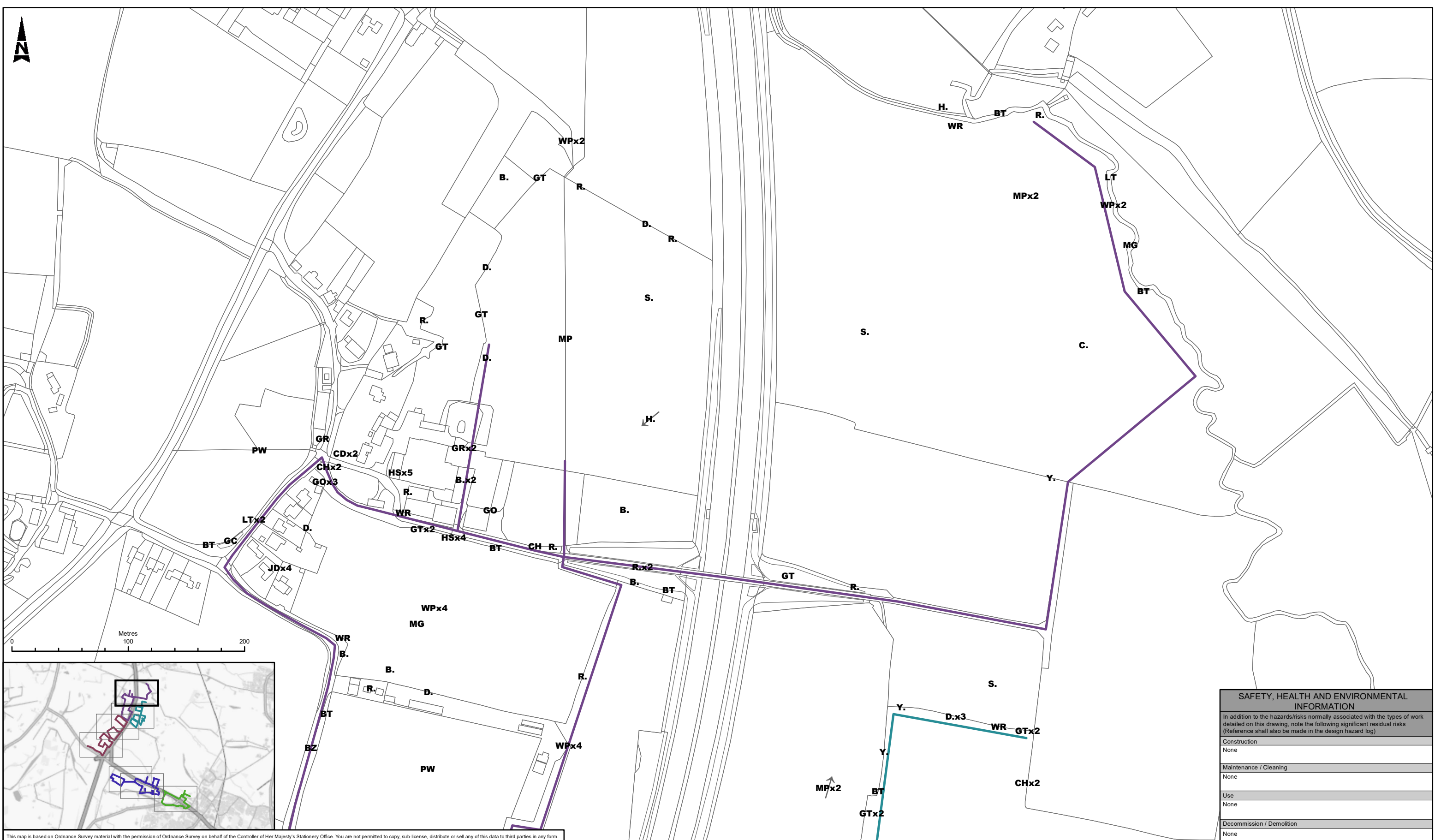
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	250M STUDY AREA		FORAGING IN FLIGHT	B.	BLACKBIRD
	TRANSECT 2		FLYING	BT	BLUE TIT
	TRANSECT 3			BZ	BUZZARD
	TRANSECT 4			C.	CARRION CROW
	TRANSECT 5			CD	COLLARED DOVE
	TRANSECT 6			CA	CORMORANT
	TRANSECT 7			CH	CHAFFINCH
	TRANSECT 8			CT	COAL TIT
	TRANSECT 9			D.	DUNNOCK
				FF	FIELDFARE
				G.	GREEN WOODPECKER
				GL	GREY WAGTAIL
				GO	GOLDFINCH
				GR	GREENFINCH
				GS	GREAT SPOTTED WOODPECKER
				GT	GREAT TIT
				HG	HERRING GULL
				HS	HOUSE SPARROW
				J.	JAY
				JD	JACKDAW
				K.	KESTREL
				KF	KINGFISHER
				KT	RED KITE
				LB	LESSER BLACK-BACKED GULL
				LT	LONG-TAILED TIT
				M.	MISTLE THRUSH
				MA	MALLARD
				MG	MAGPIE
				MP	MEADOW PIPIT
				PW	PIED WAGTAIL
				PH	PHEASANT
				R.	ROBIN
				RE	REDWING
				RN	RAVEN
				RO	ROOK
				S.	SKYLARK
				SD	STOCK DOVE
				SG	STARLING
				SH	SPARROWHAWK
				ST	SONG THRUSH
				WP	WOOD PIGEON
				WR	WREN

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED							

ATKINS
Member of the SNC-Lavalin Group
5th Floor, Block 5
Shire Hall
Bearland
Gloucester
GL1 2TH
Tel: 08000 514 514
www.atkinsglobal.com

Gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9F WINTERING BIRD SURVEY RESULTS FEBRUARY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000027	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 13 of 13 Rev: P03

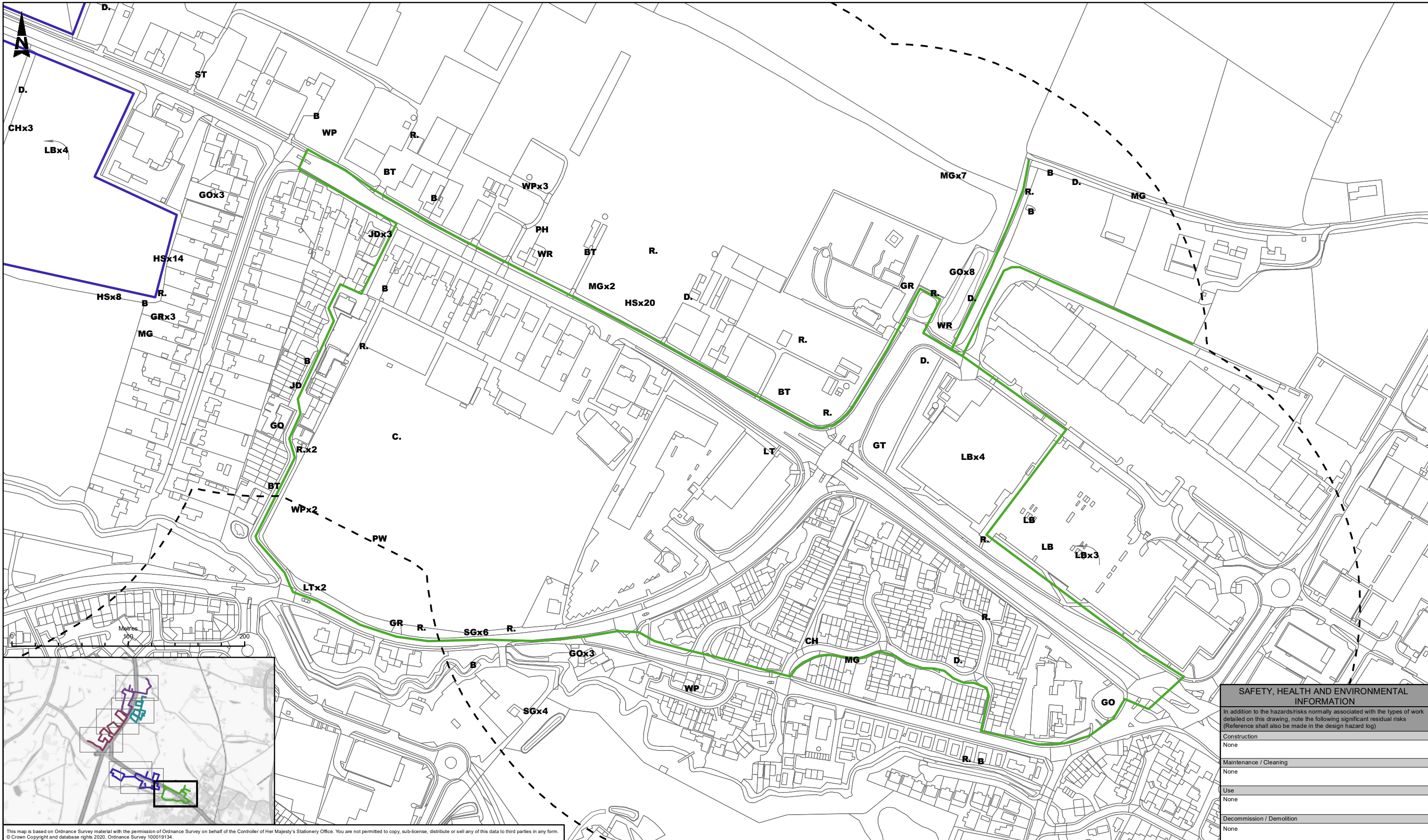


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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 2
	TRANSECT 3
	TRANSECT 6
	TRANSECT 7
	TRANSECT 9
BEHAVIOURS	
	FORAGING IN FLIGHT
	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
D.	DUNNOCK
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G.	GREEN WOODPECKER
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R.	ROBIN
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SD	STOCK DOVE
SG	STARLING
ST	SONG THRUSH
WP	WOOD PIGEON
WR	WREN
Y.	YELLOWHAMMER

Description		Drawing Suitability	Status	Project Title																
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date														
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
<table border="1"> <tr><td>Description</td><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date									Client	Gloucestershire COUNTY COUNCIL	Drawing Number
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
<table border="1"> <tr><td>Description</td><td>Status</td><td>Revision</td><td>Drawn</td><td>Checked</td><td>Reviewed</td><td>Authorised</td><td>Issue Date</td></tr> <tr><td>PUBLISHED</td><td>A1</td><td>P03</td><td>SD</td><td>RD</td><td>CC</td><td>LJ</td><td>01/05/23</td></tr> </table>		Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23			Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000028
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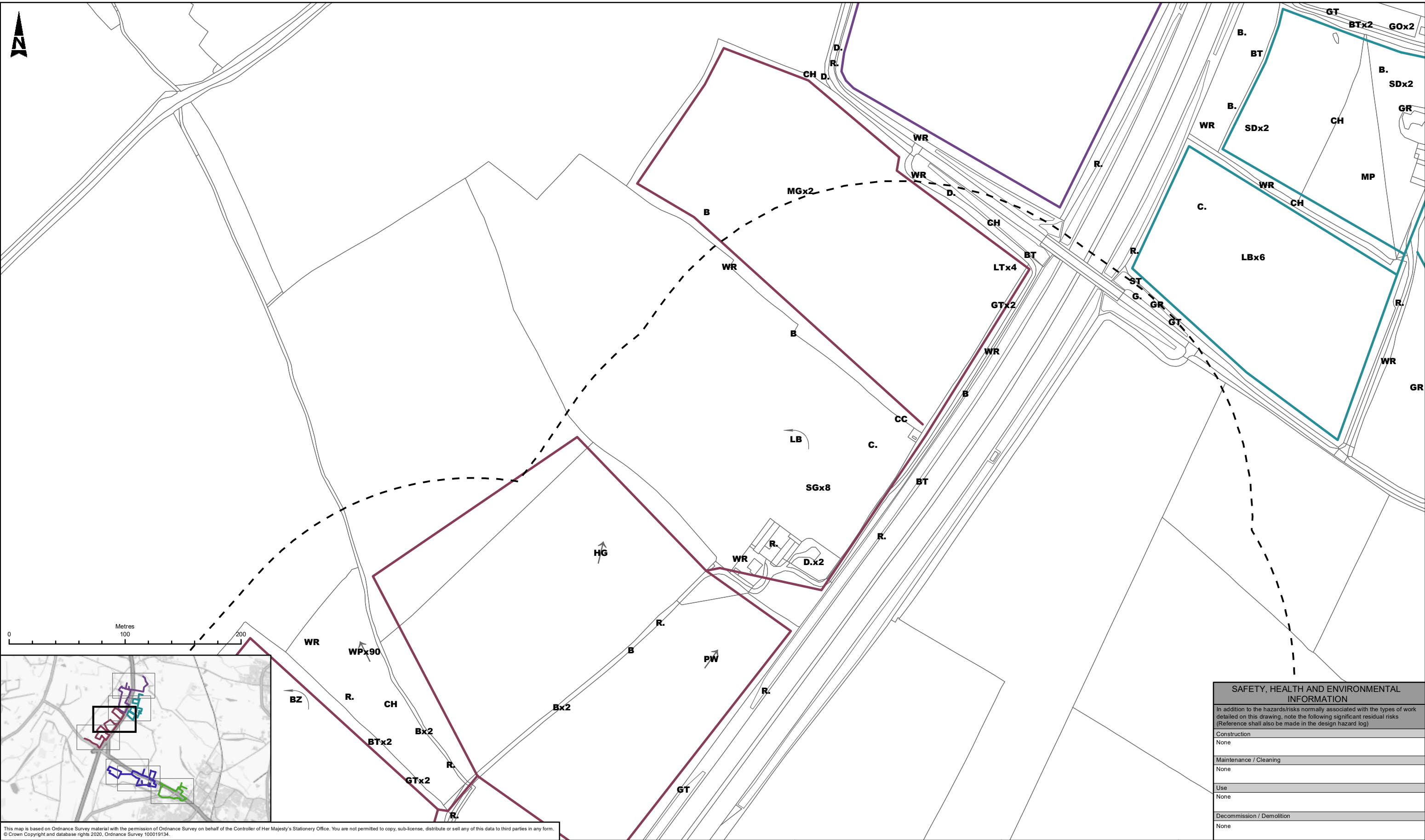


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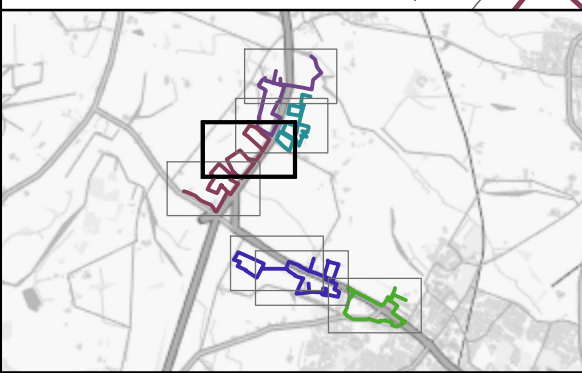
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LEGEND	
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Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvements Scheme
PUBLISHED						01/05/23	
Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	FIGURE 7-9G WINTERING BIRD SURVEY RESULTS MARCH 2020
PUBLISHED						01/05/23	
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	GCCM5J10 - ATK - EBD ZZ - GS - GI - 000028
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Description							



Metres
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
<ul style="list-style-type: none"> 250M STUDY AREA — TRANSECT 2 — TRANSECT 3 — TRANSECT 6 — TRANSECT 7 — TRANSECT 9 	BEHAVIOURS <ul style="list-style-type: none"> FORAGING IN FLIGHT FLYING SPECIES (BTO CODES) B. BLACKBIRD B T BLUE TIT B Z BUZZARD C. CARRION CROW C C CHIFFCHAFF C D COLLARED DOVE C H CHAFFINCH D. DUNNOCK F F FIELDFARE G. GREEN WOODPECKER G C GOLDCREST G O GOLDFINCH G R GREENFINCH G T GREAT TIT H. GREY HERON H G HERRING GULL H S HOUSE SPARROW J. JAY J D JACKDAW L B LESSER BLACK-BACKED GULL L T LONG-TAILED TIT M. MISTLE THRUSH M G MAGPIE M A MALLARD M P MEADOW PIPIT P W PIED WAGTAIL P H PHEASANT R. ROBIN R E REDWING R N RAVEN S. SKYLARK S D STOCK DOVE S G STARLING S T SONG THRUSH W P WOOD PIGEON W R WREN Y. YELLOWHAMMER

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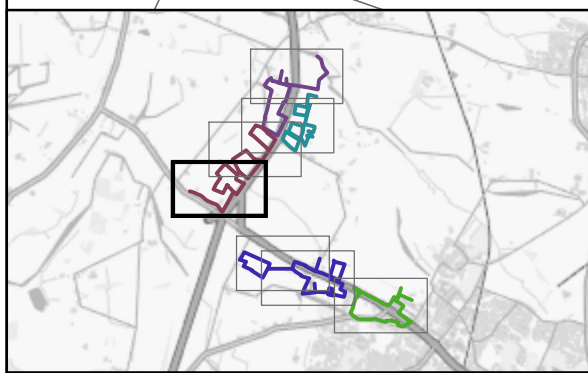
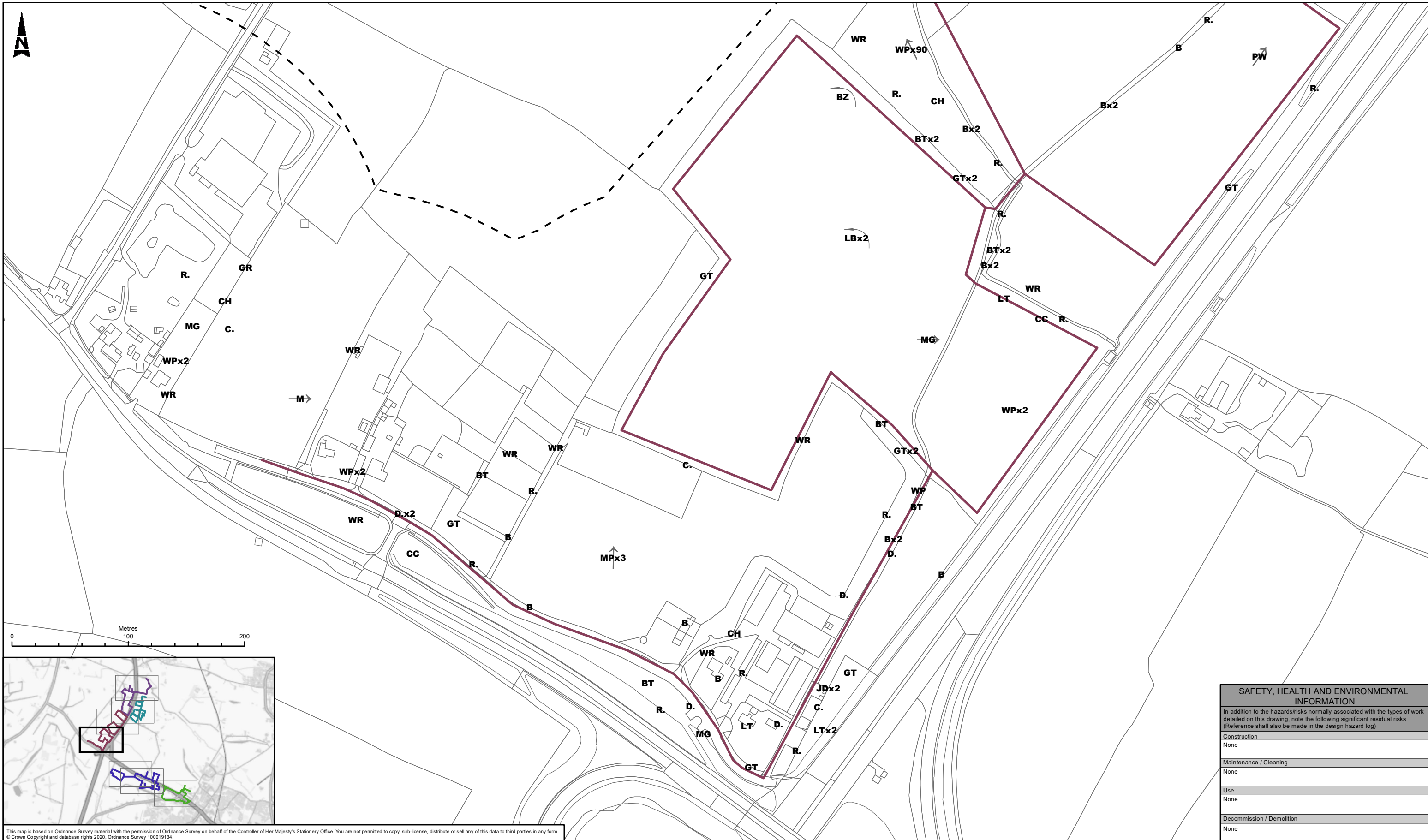
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Client

Gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9G WINTERING BIRD SURVEY RESULTS MARCH 2020	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000028	
Location	Type	Role	Number
A3	1:3,000	5214106	6 of 7
Original Size:	Scale:	Project Ref:	Sheet:
A3	1:3,000	5214106	6 of 7
			Rev: P03



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
250M STUDY AREA	BEHAVIOURS
TRANSECT 2	FORAGING IN FLIGHT
TRANSECT 3	FLYING
TRANSECT 6	SPECIES (BTO CODES)
TRANSECT 7	B. BLACKBIRD
TRANSECT 9	BT BLUE TIT
	BZ BUZZARD
	C. CARRION CROW
CC CHIFFCHAFF	GR GREENFINCH
CD COLLARED DOVE	GT GREAT TIT
CH CHAFFINCH	H. GREY HERON
D. DUNNOCK	HG HERRING GULL
FF FIELDFARE	HS HOUSE SPARROW
G. GREEN WOODPECKER	J. JAY
GC GOLDCREST	JD JACKDAW
GO GOLDFINCH	LB LESSER BLACK-BACKED GULL
LT LONG-TAILED TIT	RE REDWING
M. MISTLE THRUSH	RN RAVEN
MG MAGPIE	S. SKYLARK
MA MALLARD	SD STOCK DOVE
MP MEADOW PIPIT	SG STARLING
PW PIED WAGTAIL	ST SONG THRUSH
PH PHEASANT	WP WOOD PIGEON
R. ROBIN	WR WREN
Y. YELLOWHAMMER	

Description						
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Gloucestershire
 COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-9G WINTERING BIRD SURVEY RESULTS MARCH 2020	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000028	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 7 of 7 Rev: P03

Appendix B. Dates, times, and weather conditions of each survey

Date	Start/end time	Temperature (°C)	Wind (Beaufort) ²⁶	Rain ²⁷	Cloud (Octas) ²⁸
September 2019					
04/09/2019	09:45/13:45	15-17	2-4	0	1-3
05/09/2019	09:30/16:30	15-16	3	0	6-8
06/09/2019	09:50/14:45	15	2	0	8
12/09/2019	09:40/14:30	16	2	0	8
13/09/2019	09:45/13:30	14	2	0	1
October 2019					
08/10/2019	09:10/15:00	13	2-3	0	1-3
09/10/2019	08:55/15:15	10-14	2	0	3-6
10/10/2019	09:00/14:00	14-15	2-4	0-1	8
16/10/2019	09:00/15:45	12-15	2-3	0	3-7
November 2019					
19/11/2019	09:30/15:10	4-5	2	0	5-8
20/11/2019	08:30/13:45	8	3	0	6
21/11/2019	08:30/13:00	5-6	3	0	8
27/11/2019	08:30/13:00	9	2	0	2
December 2019					
11/12/2019	08:45-14:45	5-6	2	0-1	3

²⁶ Wind speed score of 0-12 against Beaufort scale: 0 = calm, 2 = light breeze, 4 = Moderate breeze, 6 = strong breeze, 7 = High wind, 9 = Strong gale, 12 = Hurricane

²⁷ Precipitation intensity on scale of 0-5: 0 = Dry, 1 = Light drizzle, 2 = Light rain, 3 = Moderate rain, 4 = Heavy rain, 5 = Torrential rain.

²⁸ Cloud cover on a scale of 0-8: 0 = Sky completely clear, 4 = Sky half cloudy, 8 = Sky completely cloudy

Date	Start/end time	Temperature (°C)	Wind (Beaufort) ²⁶	Rain ²⁷	Cloud (Octas) ²⁸
12/12/2019	08:30-11:45	7	3	0-2	8
13/12/2019	08:45-14:45	6	2-4	0	4-7
19/12/2019	10:45-13:30	11	4	0-2	4-8
January 2020					
14/01/2020	08:40-13:30	7	2-3	0-1	6-7
15/01/2020	08:45-13:15	7	2	0	8
16/01/2020	08:10-13:30	7-9	2-4	2	1-8
24/01/2020	08:05-11:00	6	0-1	0	8
February 2020					
11/02/2020	08:00-12:30	4-6	4	0-1	2
14/02/2020	08:15-13:00	3-6	2	0	3
17/02/2020	08:00-13:15	4-5	4	0-1	5-6
21/02/20	07:50-10:15	6	3		8
March 2020					
13/03/2020	08:00–11:00	7-8	2	0	3-8
20/03/2020	07:50-12:45	6-8	2-3	0	6

Appendix C. Survey Results

Species	Priority Species (Conservation/legal status)	Number per visit							Peak Count
		September	October	November	December	January	February	March	
Barn owl (<i>Tyto alba</i>)	Schedule 1	1							1
Blackbird (<i>Turdus merula</i>)		22	58	131	146	147	128	46	147
Blackcap (<i>Sylvia atricapilla</i>)		4		2					4
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	Amber List BoCC5	40	2		211	60			211
Blue tit (<i>Cyanistes caeruleus</i>)		93	71	93	48	105	111	42	111
Buzzard (<i>Buteo buteo</i>)		21	20	11	12	10	11	5	21
Carrion crow (<i>Corvus corone</i>)		30	37	132	75	124	139	62	139
Chaffinch (<i>Fringilla coelebs</i>)		8	15	136	108	151	172	68	172
Chiffchaff (<i>Phylloscopus collybita</i>)		17	4	1				5	17
Coal tit (<i>Periparus ater</i>)		1	1	3		2	1		3
Collared dove (<i>Streptopelia decaocto</i>)		20	24	11	14	5	8	2	24
Cormorant (<i>Phalacrocorax carbo</i>)						1	2		2

Species	Priority Species (Conservation/legal status)	Number per visit							Peak Count
		September	October	November	December	January	February	March	
Dunnock (<i>Prunella modularis</i>)	Amber List BoCC5, SPI	20	50	76	58	36	70	43	76
Feral pigeon (<i>Columba livia</i>)		55							55
Fieldfare (<i>Turdus pilaris</i>)	Schedule 1, Red List BoCC5			177	342	410	45	115	410
Goldcrest (<i>Regulus regulus</i>)		1	1	10	6	3	8	1	10
Goldfinch (<i>Carduelis carduelis</i>)		36	92	73	24	82	51	37	92
Great spotted woodpecker (<i>Dendrocopos major</i>)		9	4	7	8	6	8		9
Great tit (<i>Parus major</i>)		33	72	52	47	76	88	42	88
Green woodpecker (<i>Picus viridis</i>)		3		2	2	5	4	1	5
Greenfinch (<i>Chloris chloris</i>)	Red List BoCC5	1	3	2		1	10	24	24
Grey heron (<i>Ardea cinerea</i>)		4		1		1		2	4
Grey wagtail (<i>Motacilla cinerea</i>)	Amber List BoCC5	4	6	2	2	1	4		6
Herring gull (<i>Larus argentatus</i>)	Red List BoCC5, SPI, Ram nf	306		21	133	22	45	1	306
House martin (<i>Delichon urbicum</i>)	Red List BoCC5	14	1						14

Species	Priority Species (Conservation/legal status)	Number per visit							Peak Count
		September	October	November	December	January	February	March	
House sparrow (<i>Passer domesticus</i>)	Red List BoCC5, SPI	94	88	166	85	145	138	165	166
Jackdaw (<i>Coloeus monedula</i>)		203	206	106	81	177	133	69	206
Jay (<i>Garrulus glandarius</i>)		2	2	3	2	3	2	1	3
Kestrel (<i>Falco tinnunculus</i>)	Amber List BoCC5	4	4	7	3	1	1		7
Kingfisher (<i>Alcedo atthis</i>)	Schedule 1, Annex 1		1			1	1		1
Lapwing (<i>Vanellus vanellus</i>)	Red List BoCC5, SPI, SPA					2			2
Lesser black-backed gull (<i>Larus fuscus</i>)	Amber List BoCC5, Ram fc	148	2		7	3	42	23	148
Lesser whitethroat (<i>Curruca curruca</i>)		1							1
Linnet (<i>Linaria cannabina</i>)	Red List BoCC5, SPI, GBAP		34	2					34
Little grebe (<i>Tachybaptus ruficollis</i>)				3					3
Long-tailed tit (<i>Aegithalos caudatus</i>)		63	79	101	65	122	58	23	122
Magpie (<i>Pica pica</i>)		41	43	54	44	42	38	32	54
Mallard (<i>Anas platyrhynchos</i>)	Amber List BoCC5, SPA		6		2	6	9	8	9
Meadow pipit (<i>Anthus pratensis</i>)	Amber List BoCC5	2	41	86	22	119	83	12	119

Species	Priority Species (Conservation/legal status)	Number per visit							Peak Count
		September	October	November	December	January	February	March	
Mistle thrush (<i>Turdus viscivorus</i>)	Red List BoCC5	7	1	7	7	5	4	1	7
Moorhen (<i>Gallinula chloropus</i>)	Amber List BoCC5			4		3			4
Pheasant (<i>Phasianus colchicus</i>)		1		8	9	3	2	1	9
Pied wagtail (<i>Motacilla alba</i>)		2	13	26	50	35	70	4	70
Raven (<i>Corvus corax</i>)		1	1	3		2	5	2	5
Red kite (<i>Milvus milvus</i>)	Schedule 1, Annex 1						1		1
Red-legged partridge (<i>Alectoris rufa</i>)				1					1
Redstart (<i>Phoenicurus phoenicurus</i>)	Amber List BoCC5	1							1
Redwing (<i>Turdus iliacus</i>)	Schedule 1, Amber List BoCC5	4	12	117	300	340	416	31	416
Reed bunting (<i>Emberiza schoeniclus</i>)	Amber List BoCC5, SPI, GBAP			1		1	1		1
Robin (<i>Erithacus rubecula</i>)		109	124	126	80	157	127	64	157
Rook (<i>Corvus frugilegus</i>)	Amber List BoCC5	138	231	110	100	98	40		231
Skylark (<i>Alauda arvensis</i>)	Red List BoCC5, SPI, GBAP		37	12	2	6	13	5	37
Song thrush (<i>Turdus philomelos</i>)	Amber List BoCC5, SPI, GBAP		2	3	3	4	6	3	6

Species	Priority Species (Conservation/legal status)	Number per visit							Peak Count
		September	October	November	December	January	February	March	
Sparrowhawk (<i>Accipiter nisus</i>)	Amber List BoCC5	3	1	2	1	1	1		3
Spotted flycatcher (<i>Muscicapa striata</i>)	Red List BoCC5, SPI, GBAP	1							1
Starling (<i>Sturnus vulgaris</i>)	Red List BoCC5, SPI	163	250	95	962	604	439	138	962
Stock dove (<i>Columba oenas</i>)	Amber List BoCC5	47	1		17	24	5	7	47
Stonechat (<i>Saxicola rubicola</i>)			1	1		1			1
Swallow (<i>Hirundo rustica</i>)		70	22						70
Wheatear (<i>Oenanthe oenanthe</i>)	Amber List BoCC	11							11
Willow warbler (<i>Phylloscopus trochilus</i>)	Amber List BoCC	3							3
Wood pigeon (<i>Columba palumbus</i>)	Amber List BoCC	445	259	195	234	175	144	136	445
Wren (<i>Troglodytes troglodytes</i>)	Amber List BoCC	6	29	40	31	34	46	35	46
Yellowhammer (<i>Emberiza citrinella</i>)	Red List BoCC, SPI	4	5	1	1			3	5

Key:

Annex I: species listed on Annex I of the Directive 2009/147/EC (the Birds Directive)
 Red List BoCC: species on the Red List of Birds of Conservation Concern 5
 Amber List BoCC: species on the Amber List of Birds of Conservation Concern 5
 SPI: species of principal importance for the conservation of biodiversity in England

GBAP: Species listed on the Gloucestershire Biodiversity Action Plan

SPA: Severn Estuary SPA qualifying feature (wintering assemblage species)

Ram: Severn Estuary Ramsar site feature of interest

- fc: species/populations identified subsequent to designation for possible future consideration under criterion 6
- nf: noteworthy fauna

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