

# Southampton to London Pipeline Project

## Deadline 2

Response to the Examining Authority's First Written  
Questions Landscape and Visual (LV) (1 of 2)

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Southampton to London  
Pipeline Project



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# 1 Response to the Examining Authority's Written Questions – Landscape and Visual (LV)

Table 1.1: Applicant response to Question

ExQ1	Question:	Applicant response to Question:
LV.1.1	<p>Requirement 12 of the draft DCO [AS-059] requires the submission and approval of a LEMP in accordance with the REAC, which is contained within Chapter 16 of the ES [APP-056]. The LEMP would contain, amongst other things, details of the reinstatement of hedgerows and trees. Although the Applicant relies heavily on the measures contained within the LEMP to mitigate landscape matters, no outline document is before the Examination.</p> <p>i) Justify the approach that no outline submission is before the ExA particularly as the final LEMP would need to be approved by numerous relevant planning authorities.</p> <p>ii) In the absence of outline contents, explain how the ExA</p>	<p>N.B. The responses to questions i, ii and iii are the same for both BIO.1.1 and LV.1.1.</p> <p>1.1 In answer to BIO.1.1 and LV.1.1 i), the mitigations and commitments relating to landscape and ecological matters and reflecting the conclusions of the Environmental Statement (ES) are set out in the Register of Environmental Actions and Commitments (REAC) (<b>Application Document APP-056</b>). These commitments provide the subjects that would be covered within the Landscape and Ecological Management Plan (LEMP).</p> <p>1.2 The Applicant considers that the relevant planning authority is the appropriate body to consider the local impacts and mitigation that will be set out in the LEMP. Given the subject matter, a LEMP is location specific and not capable of universal adoption along the pipeline route. In addition, at this stage in the project there is no meaningful detail that can be included in an outline LEMP as detailed design has not taken place and so the exact pipeline route, and therefore the necessary details for inclusion in the LEMP (or even an outline LEMP), are not known. It is accepted that a final LEMP would need to be approved by numerous relevant planning authorities, but the Applicant does not consider that provision of an outline document for examination would reduce that requirement or assist at the discharge stage. This is consistent with the approach adopted by other Development Consent Orders (DCOs).</p> <p>1.3 In answer to BIO.1.1 and LV.1.1 ii), commitments in respect of landscape matters are set out in the REAC (which also signposts which commitments would be included in the LEMP). As per Requirement 12(1) of the draft DCO (<b>Document Reference 3.1 (3)</b>), the LEMP for each stage must reflect the survey results and ecological mitigation and other measures included in the REAC, which, as part of the Environmental Statement, would be a certified document. These commitments are therefore secured. As set out in the relevant</p>



ExQ1	Question:	Applicant response to Question:
	<p>and the relevant planning authorities can be satisfied, that measures in the LEMP would deliver the mitigation that the conclusions of the submitted ES rely upon.</p> <p>iii) Provide an Outline LEMP, listing measures that would be secured; drawings to be prepared; detailing consultation that would be undertaken and with whom; and the inter-relationship landscape and ecology.</p> <p>iv) Provide a schedule detailing the areas or lengths of Potential Ancient Woodland, trees covered by area, and individual Tree Preservations Orders (TPOs), woodlands, hedgerows and important hedgerows that are proposed to be reinstated following completion of construction and the areas or lengths of off- site planting.</p> <p>N.B – There is overlap between this question and BIO.1.1. The Applicant (and any other</p>	<p>requirement, the relevant authority would need to approve the LEMP, and any concerns they have over the delivery of the mitigation can be resolved as part of approval process. Part 2 of Schedule 2 of the draft DCO (<b>Document Reference 3.1 (3)</b>) governs this process, and if necessary, the relevant authority can request further information as part of its deliberations. Ultimately, if the Applicant and the relevant authority disagree over whether the LEMP should be approved with or without amendments, an appeal process is provided for with an appeal to the Secretary of State. This is consistent with the approach adopted by other DCOs.</p> <p>1.4 In answer to BIO.1.1 iii and iv and LV.1.1 iii), as noted above, the Applicant does not consider it necessary or appropriate to provide an outline LEMP.</p> <p>1.5 In answer to LV.1.1 iv), as explained in the Applicant's response to Written Question LV.1.8, the total number of trees to be removed during the construction phase has not been determined at this stage. This will be confirmed during the detailed design stage for the project. As the Applicant does not currently know exactly which trees would be lost and therefore which ones would require replacing, these details would be set out within the Landscape and Ecological Management Plan, which would be submitted to and approved by the Relevant Planning Authority (Requirement 12 of the draft DCO (<b>Document Reference 3.1 (3)</b>). Commitment G94 in ES Chapter 16 (<b>Application Document APP-056</b>), states that '<i>Land used temporarily would be reinstated to an appropriate condition relevant to its previous use</i>'. Commitment G97 states '<i>where woodland vegetation is lost and trees cannot be replaced due to the restrictions of pipeline easements, native shrub planting approved by Esso would be used as a replacement</i>'.</p>



ExQ1	Question:	Applicant response to Question:
	Interested Parties) may wish to address the issue in a combined response to both questions.	
<b>LV.1.3</b>	<p>Appendix C of the CoCP [APP-128] covers the replacement planting of vegetation and states that replacement planting will be secured through the LEMP. However, vegetation does not appear to be defined anywhere within the CoCP or within the draft DCO [AS-059].</p> <p>Confirm that trees and hedgerows are included in the term “vegetation” as used in the CoCP.</p>	<p>1.1 It was not considered necessary to define the term ‘vegetation’ since this is not a technical term and is widely understood as a general description of a range of plant types. Oxford University Press defines vegetation as ‘<i>plants considered collectively</i>’ (<a href="https://www.lexico.com/en/definition/vegetation">https://www.lexico.com/en/definition/vegetation</a>).</p> <p>1.2 The Applicant can confirm that the use of the term ‘vegetation’ within the Environmental Statement and Development Consent Order would include plants collectively, including trees and hedgerows.</p>
<b>LV.1.4</b>	<p>Notable trees are recorded in the ES Appendix 10.2 [APP-115] as being defined as Category A and B trees in accordance with British Standard 5837:2012.</p> <p>Confirm that all category A and B trees within 15m of the Order Limits were recorded as notable trees or whether any other parameters were used in defining</p>	<p>1.1 The survey methodology for identifying notable trees was set out within Chapter 4 of Appendix 3 of the Scoping Report (<b>Additional Submission <a href="#">AS-019</a></b>). Paragraph 4.2.1 in the Scoping Report states ‘<i>The arboricultural surveys aim to capture tree data on woodlands, veteran/ancient trees and notable/mature trees that are likely to be lost or affected by the Project. The approach ensures an efficient and pragmatic approach to tree data collection, to provide category and definition criteria together with information to provide adequate tree protection during the construction phases.</i>’ In addition, notable trees are defined as ‘<i>prominent trees within the landscape and by nature will generally be the larger more mature specimens</i>’ (paragraph 10.2.10 in ES Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>)).</p>

ExQ1	Question:	Applicant response to Question:
	notable trees, such as species, diameter height or overall height.	<p>1.2 The Applicant can confirm that not all category A and B trees (as per British Standard 5837:2012) are recorded as notable. Table A3.4.1 of Appendix 3 of the Scoping Report (<b>Additional Submission <a href="#">AS-019</a></b>), sets out the parameters of the notable tree survey, which include:</p> <ul style="list-style-type: none"> <li>• stem size: Table A3.4.1 states 'The survey strategy aims to highlight the larger notable trees that may be impacted, for this reason the stem diameter size has been increased from the BS &gt;75mm guidance to &gt;300mm'; and</li> <li>• street/urban trees: Table A3.4.1 states 'Within the urban environment it is likely that the trees will have restricted rooting areas due to hard surfacing and installed infrastructure. Impacts to tree roots would be restricted to the excavation width only. It is anticipated that the guidance given within NJUG Volume 4 'guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees' will be followed'.</li> </ul> <p>1.3 The Applicant considers the approach to mapping notable trees as being consistent with the proportionate approach and targeted survey set out within paragraph 4.2.2 of Chapter 4 of Appendix 3 of the Scoping Report (<b>Additional Submission <a href="#">AS-019</a></b>).</p>
<b>LV.1.5</b>	Figure 10.4 of the ES [APP-064] show the existing views of the route. With few exceptions, the vegetation is in leaf. Paragraph 10.2.26 describes a winter survey being undertaken in early 2018, and states "The findings of the winter landscape survey were used to help influence the developing design and inform the	<p>1.1 In response to i), paragraph 10.2.26 of Environmental Statement Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>) further explains that '<i>An initial winter landscape survey was undertaken by landscape architects in early 2018 to gain familiarity with the landscape character, to gain an understanding of the general extent of visibility towards the project area from the surrounding landscape and to identify potential significant views towards the project area when visibility was most open prior to vegetation coming into leaf...</i>'.</p> <p>1.2 Photographs taken during this initial winter landscape survey provided an informal record of the site visits undertaken in early 2018 and were only one of many factors used to help influence the developing design and inform the final selection of Representative</p>

ExQ1	Question:	Applicant response to Question:
	<p>choice of Representative Viewpoints.”</p> <p>i) Explain why these winter photographs, which were used to help influence the design and confirm representative viewpoints, were not submitted into the Examination; or</p> <p>ii) Provide these photographs.</p>	<p>Viewpoints. It was not therefore considered necessary to submit these ‘working’ photographs with the Development Consent Order application.</p> <p>1.3 As requested in ii), the Applicant has provided these photographs in Appendix LV.1.5.1 of this document.</p>
<b>LV.1.6</b>	<p>Chapter 6 of the ES [APP-046] states the matrix approach used for determining the impact significance. However, there are no definitions of the significance criteria negligible, minor, moderate or major which are set out in Illustration 6.1, which is recommended by</p> <p>Guidelines for Landscape and Visual Impact Assessment 3 (GLVIA3). Paragraph 6.4.10 states “A significant effect in relation to the EIA Regulations is taken to mean a moderate or higher adverse or beneficial significance. Effects of minor or negligible significance are not</p>	<p>1.1 The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the ‘EIA Regulations’) require determination of whether an effect is significant or not. The EIA Regulations do not require determination of levels of significance.</p> <p>1.2 Guidelines for Landscape and Visual Impact Assessment, Third Edition (GLVIA3) (Landscape Institute and Institute of Environmental Management and Assessment, 2013) does not state that it is necessary to define significance criteria. The focus is instead on whether the effect is significant or not.</p> <p>1.3 In accordance with GLVIA3 paragraph 5.55 option 1, the level of significance of landscape and visual effects within Environmental Statement (ES) Chapter 10 (<b>Application Document APP-050</b>) has been determined in terms of the relationship between the sensitivity of receptors and the magnitude of landscape and visual change, guided by the matrix shown in Illustration 6.1 of ES Chapter 6 (<b>Application Document APP-046</b>). Paragraph 5.54 of GLVIA3 states ‘<i>There may also be a need to adopt a consistent approach across all EIA topic areas and the EIA co-ordinator will need to be involved in the decisions on suitable approaches</i>’. The approach across all EIA topics was to base the assessment of significance on the matrix shown in illustration 6.1 of ES Chapter 6 (<b>Application Document APP-046</b>).</p>

ExQ1	Question:	Applicant response to Question:
	<p>considered to be significant effects on the environment but are used to acknowledge that there would be some differences from the baseline conditions.”</p> <p>Provide definitions of the significance criteria presented in Illustration 6.1 applicable to the assessment of landscape and visual effects.</p>	<p>1.4 The assessment of landscape and visual significance is not formulaic and professional judgements have been made to determine the significance level of landscape and visual effects identified in ES Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>). This is in accordance with GLVIA3, which advises in paragraph 2.23 that, ‘<i>Professional judgement is a very important part of LVIA</i>’.</p> <p>1.5 It is not therefore considered necessary to provide definitions of the significance criteria presented in Illustration 6.1 of ES Chapter 6 (<b>Application Document <a href="#">APP-046</a></b>) for the assessment of landscape and visual effects.</p>
<b>LV.1.7</b>	<p>The locations of the important hedgerows identified in the ES Appendix 7.2 [APP-082] and TPOs are illustrated in the General Arrangement Plans [APP-022] to [APP-024]. However, these plans show no details of notable trees and the locations of Ancient Woodland Inventory sites and Potential Ancient Woodland sites. There is also no information provided on the referenced TPOs.</p> <p>i) Justify the omission; or</p> <p>ii) Provide these details.</p>	<p>1.1 In answer to i), the Applicant has produced the General Arrangement Plans (<b>Additional Submission <a href="#">AS-056</a>, <a href="#">AS-057</a> and <a href="#">AS-058</a></b>) to comply with Regulation 5(2)(o) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009: ‘<i>any other plans, drawings and sections necessary to describe the proposals for which development consent is sought, showing details of design, external appearance, and the preferred layout of buildings or structures, drainage, surface water management, means of vehicular and pedestrian access, any car parking to be provided, and means of landscaping.</i>’ The Applicant’s Navigation Document (<b>Document Reference 1.5 (3)</b>) states that ‘<i>These plans provide information on crossing points, narrow working areas, trenchless crossings, water bodies, Tree Preservation Orders, hedgerows, compounds, logistics hubs and above ground installations.</i>’ The plans only show those features within the Order Limits.</p> <p>1.2 In answer to ii), the Applicant has presented the locations of notable trees, Ancient Woodland Inventory sites and Potential Ancient Woodland sites on Figure 10.3 Environmental Statement (ES) Landscape Constraints and Representative Viewpoints within ES Figures Chapter 10 Landscape and Visual (<b>Application Document <a href="#">APP-064</a></b>).</p>



ExQ1	Question:	Applicant response to Question:
		<p>1.3 The Tree Preservation Orders located on the General Arrangement Plans (<b>Additional Submission <a href="#">AS-056</a>, <a href="#">AS-057</a> and <a href="#">AS-058</a></b>) are referenced in the draft Development Consent Order (<b>Document Reference 3.1 (3)</b>) Schedule 8 – Trees Subject to Tree Preservation Orders, where the Tree Preservation Orders are detailed.</p>
<p><b>LV.1.8</b></p>	<p>The ExA is not clear from the CoCP [APP-128], which is secured by Requirement 8, if the draft DCO [AS-059] or any other document identify the number of trees that would need to be removed for the Proposed Development to be constructed.</p> <p>i) Confirm whether all trees within the Order Limits would need to be removed.</p> <p>ii) Confirm the total number of trees to be removed during the construction of the Proposed Development, in particular at Fordingbridge Park.</p> <p>iii) Confirm whether the use of trenchless techniques would harm or result in the loss to any tree.</p> <p>iv) Confirm how and where tree replacement would occur, including details of number,</p>	<p>1.1 The Code of Construction Practice (CoCP) (<b>Document Reference 6.4 Appendix 16.1 (2)</b>) is secured by Requirement 5 (not Requirement 8) of the draft Development Consent Order (DCO) (<b>Document Reference 3.1 (3)</b>).</p> <p>1.2 In answer to i) and ii), the Applicant is not expecting to remove all trees within the Order Limits. The Applicant cannot yet confirm the number of trees that would need to be removed because the detailed construction design necessary to determine the precise location of the replacement pipeline is not required to support the application for development consent. This is normally undertaken prior to construction and as part of the detailed design work on the eventual alignment of the pipeline. If the Applicant is granted development consent, the pipeline could be installed anywhere within the Limits of Deviation. This flexibility is required in order to deal with unforeseen ground conditions and local features.</p> <p>1.3 Paragraph 10.5.1 of the Environmental Statement (ES) Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>) states that <i>'In order to consider a reasonable worst case, the assessment of potential impacts assumes loss of all trees and shrub vegetation within the Order Limits except where the good practice measures set out in Table 10.13 and reduced working widths identified within the REAC [Register of Environmental Actions and Commitments] dictate otherwise. There is a commitment that the contractor(s) would retain vegetation where practicable and in accordance with, as a minimum, the vegetation retention drawings (G91). Therefore, tree loss would be expected to be less than the worst case assumed for the purposes of assessment.'</i> As such, although a worst case has been assumed for the purposes of the assessment, it is not anticipated that it would be necessary to remove all trees within the Order Limits including Fordbridge Park.</p>

ExQ1	Question:	Applicant response to Question:
	species and age of replacement trees.	<p>1.4 In answer to iii), as stated in paragraph 3.2.4 of ES Chapter 3 (<b>Application Document APP-043</b>), the <i>'minimum depth from the top of the pipe to the ground surface would be 1.2m in open cut sections, and deeper for trenchless crossings.'</i> This is secured within the DCO (<b>Document Reference 3.1 (3)</b>) at Part II (6)(1)(B) which allows the undertaker to <i>'deviate the pipeline works vertically upwards to a limit of not less than 1.2 metres below the surface of the ground (except where ground conditions make compliance with this upwards limit impracticable in which case the upwards limit is 0.7 metres below the surface of the ground).'</i></p> <p>1.5 The Forestry Commission information note on The Influence of Soils and Species on Tree Root Depth (2005) states that 'Typically, trees have relatively shallow but widespread root systems (Dobson and Moffat, 1993; Dobson, 1995). It is uncommon for roots to penetrate to a depth greater than 2 m, with 80–90% found within the top 60 cm of the soil profile.' The note goes on to conclude that 'it should be emphasised that for all tree species, the vast majority of roots will occur in the uppermost metre of soil.' Therefore, except for where the drill pits are constructed, trenchless crossings would lie deeper than the majority of tree roots and overlying trees would not be affected.</p> <p>1.6 In answer to iv), as for the reasons outlined in paragraph 1.2 of this response, above, the Applicant does not currently know exactly which trees would be lost and therefore which ones would require replacing. These details, along with species and age, would be set out within the Landscape and Ecological Management Plan, which would be submitted to and approved by the Relevant Planning Authority (Requirement 12 of the draft DCO (<b>Document Reference 3.1 (3)</b>)).</p> <p>1.7 The project has made the following commitments in relation to reinstatement planting:</p> <ul style="list-style-type: none"> <li>• Commitment G87: <i>'Vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the construction phase. The contractor(s) would implement these plans including agreed mitigation where practicable.'</i></li> </ul>



ExQ1	Question:	Applicant response to Question:
		<ul style="list-style-type: none"> <li>Commitment G88: <i>'Where possible, reinstatement of vegetation would generally be using the same or similar species to that removed (subject to restrictions for planting over and around pipeline easements).'</i></li> <li>Commitment G97: <i>'Where woodland vegetation is lost and trees cannot be replaced due to the restrictions of pipeline easements, native shrub planting approved by Esso would be used as a replacement.'</i></li> </ul>
<b>LV.1.9</b>	<p>Appendix 10.2 of the ES [APP-115] sets out a schedule of notable tree and Figure 10.3: ES Landscape Constraints and Representative Viewpoints [APP-064] does include notable trees categories A and B. However, the ExA considers the schedule does not assist in knowing the exact location of the category A or B trees within the Order Limits. The ExA considers that plans illustrating the location of affected trees should be provided.</p> <p>i) Provide these plans.</p> <p>ii) Assess the quality of the identified trees within the schedule.</p>	<p>1.1 In response to i), the schedule entry for each notable tree in Table 1.2 of Environmental Statement (ES) Appendix 10.2 (<b>Document Reference 6.4 Appendix 10.2 (2)</b>) lists the coordinates. However, in response to the question, the Applicant has prepared a new set of figures showing the location of notable trees to accompany the Written Questions (see Figure LV.1.9.1).</p> <p>1.2 In response to ii), the quality category grading of the notable trees is listed in Table 1.2 of ES Appendix 10.2 (<b>Document Reference 6.4 Appendix 10.2 (2)</b>) under the heading of 'Quality Category Grading (based on BS5837)'.</p> <p>1.3 The assessment of the grading has been carried out in accordance with the category definitions in Table 1 of BS 5837:2012, Cascade chart for tree quality assessment. The quality category grading for the notable trees surveyed for the project are all grade A and B. The definitions for these grades in Table 1 of BS 5837:2012 are:</p> <ul style="list-style-type: none"> <li>Category A trees: <i>'Trees of high quality with an estimated remaining life expectancy of at least 40 years.'</i></li> <li>Category B trees: <i>'Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.'</i></li> </ul>



ExQ1	Question:	Applicant response to Question:
<b>LV.1.10</b>	<p>Chapter 10 of the ES [APP-050] identifies no compensatory planting or offsetting for the loss of trees covered by a TPO where a moderate effect at Year 15 is identified. Whilst it would not be possible to replace TPO trees lost on a 'like for like' basis, no additional planting of specimen trees off site, for example, is proposed. The tree planting and hedge infilling referred to in the ES and in Figure 7.5 [APP-061] is not stated as being mitigation for TPO trees that would be lost. The ExA is concerned with this approach.</p> <p>Justify the stance that no replacement or compensatory planting is required for TPO lost trees where a moderate effect is identified at Year 15.</p>	<p>1.1 Paragraph 10.5.1 of Environmental Statement (ES) Chapter 10 (<b>Application Document APP-050</b>) explains that the assessment of landscape and visual effects assumes the worst case in terms of vegetation loss, which would include trees with Tree Preservation Orders (TPOs): <i>'...the assessment of potential impacts assumes loss of all trees and shrub vegetation within the Order Limits except where the good practice measures set out in Table 10.13 and reduced working widths identified within the REAC [Register of Environmental Actions and Commitments] dictate otherwise'</i>.</p> <p>1.2 Paragraph 10.5.98 of ES Chapter 10 (<b>Application Document APP-050</b>) explains that 'Whilst reinstatement planting would establish to reinstate lost vegetation, it would not be possible to fully mitigate the permanent loss of TPO trees .... There would be restrictions to planting trees over and around pipeline easements. There may also be less scope to accommodate reinstatement of trees within the wider urban area because of restrictions caused by built development, proximity to highways and underground services for example.' However, the proposed tree planting and hedge infilling referred to in the ES and illustrated on Figure 7.5 of the ES (<b>Application Document APP-061</b>) forms '... a holistic approach to partly offset the envisaged loss of trees from the overall pipeline installation project' (paragraph 10.6.1 of ES Chapter 10 (<b>Application Document APP-050</b>)). Therefore, whilst this planting cannot be considered a direct mitigation for the loss of TPO trees, because it is not proposed close to the geographical locations where TPO trees would be affected but within the more rural landscape where there would be more room to accommodate planting, it would help offset the effect on TPO trees.</p>

ExQ1	Question:	Applicant response to Question:
<b>LV.1.11</b>	Confirm whether tree protection fencing, as set out in the REAC which is contained within Chapter 16 of the ES [APP-056] for notable trees, would also be provided for TPO trees and woodland, and other trees and woodland, hedgerows and important hedgerows and their root protection areas where they extend within the Order Limits which may be at risk of damage during the construction period.	<p>1.1 Commitment G95 in Table 16.1 of Environmental Statement (ES) Chapter 16 (<b>Application Document APP-056</b>) states that 'The contractor(s) would consider and apply, where practicable, the relevant protective principles set out in the National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)). This would be applied to trees within the Order Limits which would be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.' This is not limited to any particular designation of tree.</p> <p>1.2 National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)) recommends the use of protective free-standing barrier to prevent damage to trees.</p>
<b>LV.1.12</b>	<p>The REAC [APP-056] states that notable trees (Ref G86 in Table 16.2), where they are at risk of damage, would be supervised by the Environmental Clerk of Works, and that such a person would be supported by an appropriately qualified arboriculturalist.</p> <p>i) Confirm whether the provisions of the REAC would also apply to TPO trees and veteran and ancient trees; and</p>	<p>1.1 In answer to i), no Ancient Trees have been recorded within 15m of the Order Limits on the Woodland Trust Ancient Tree Inventory (checked 29 August 2019). In addition, no potential ancient trees have been identified during the project arboricultural site surveys. Therefore, this response is only in relation to Tree Preservation Orders (TPOs) and veteran trees.</p> <p>1.2 The Applicant has amended Commitment G86 to include TPO and veteran trees this commitment is included in the updated version of the Code of Construction Practice submitted at deadline 2 (<b>Document Reference 6.4 Appendix 16.1 (2)</b>). Commitment G86 now states, '<i>Works to notable, TPO and veteran trees, where at risk of damage, would be supervised by the ECoW and supported by an experienced arboriculturalist</i>'.</p> <p>1.3 In answer to ii), commitment G3 states, '<i>A suitably experienced Environmental Manager would be appointed for the duration of the construction phase. A qualified and experienced Environmental Clerk of Works (ECoW) would be available during the construction phase, to advise, supervise and report on the delivery of the mitigation methods and controls</i></p>



ExQ1	Question:	Applicant response to Question:
	ii) Confirm whether the Environmental Clerk of Works would be supported by an appropriately qualified arboriculturalist in respect to notable trees.	<i>outlined in the CEMP. The ECoW would be supported as necessary by appropriate specialists.</i> This could include an experienced arboriculturist for works adjacent to notable trees if specialist advice is required.
<b>LV.1.13</b>	The REAC (Ref: G95 Table 16.2) [APP-056] refers to the contractor considering and applying, where practicable, the relevant protective principles set out in the National Joint Utilities Group Guidelines (NJUG) for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)). The arboricultural assessment of notable trees was carried out with reference to British Standard 5837:2012. The NJUG Guidelines do not appear to contain any recommendations on tree protection fencing, whereas the British Standard has a comprehensive recommendation on this and other related issues,	<p>1.1 In answer to i), British Standard 5837:2012 <i>Trees in relation to design, development and construction</i> provides general guidance for development and is not specifically aimed at utilities works. The British Standard refers to the <i>National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees</i> ('NJUG Volume 4' (2007)), for further guidance on construction in proximity to existing trees related to underground utility apparatus (paragraph 7.1.3).</p> <p>1.2 As NJUG Volume 4 provides specific guidance for trees in relation to utilities works, such as pipeline development, it is considered to be the relevant guidance for the project.</p> <p>1.3 The tree survey has been carried out in accordance with BS 5837:2012, as this is recommended in paragraph vii on page 6 of NJUG Volume 4.</p> <p>1.4 In answer to ii), as explained above, the use of BS 5837:2012 is not considered to be the most relevant guidance for this project.</p>



ExQ1	Question:	Applicant response to Question:
	<p>although tree protection zones are similar in each document.</p> <p>i) Explain why British Standard 5837:2012 is not being used.</p> <p>ii) Explain whether use of British Standard 5837:2012 would result in a better environmental outcome for trees likely to be affected by the Proposed Development.</p>	
<b>LV.1.14</b>	<p>Chapter 10 of the ES [APP-050] describes generic mitigation measures for proposed planting that are also confirmed in the REAC, which is contained within Chapter 16 of the ES [APP-056]. ES Figure 7.5 [APP-061] shows proposed mitigation planting of hedgerow infilling and tree planting at a scale of 1:10,000. However, there is no clear definition of the extent of proposed mitigation planting, for example on the Works Plans [AS-046], [AS-047] and [AS-048].</p>	<p>1.1 The Applicant is not expecting to remove all trees within the Order Limits. The Applicant cannot yet confirm the number of trees that would need to be removed because the detailed construction design necessary to determine the precise location of the replacement pipeline is not required to support the application for development consent. This is normally undertaken prior to construction and as part of the detailed design work on the eventual alignment of the pipeline. If the Applicant is granted development consent the pipeline could be installed anywhere within the limits of deviation. This flexibility is required in order to deal with unforeseen ground conditions and local features. The Applicant has, however, committed to narrower working when crossing field boundaries that include hedgerows, trees or watercourses (commitment O1 in the REAC (<b>Application Document <a href="#">APP-056</a></b>)); several other commitments reduce the working width in specific areas.</p> <p>1.2 In answer to i), the Applicant has prepared a schedule setting out the approximate lengths of hedgerows and the approximate areas of woodlands to be potentially removed in Figure LV1.14.1. For the reasons outlined in 1.1 above, it is not possible to identify individual trees</p>



ExQ1	Question:	Applicant response to Question:
	<p>The ExA is concerned that the probability of temporary or long-term significant effects arising from the removal of existing vegetation is at present unclear. The loss of vegetation is not quantified by individual trees, lengths of hedgerow or areas of woodland,</p> <p>and the landscape and visual effects of vegetation removal is not shown by annotated photograph or photomontage.</p> <p>i) Provide a schedule detailing the 'worst case' areas of lengths, as appropriate, of individual trees, hedgerows or areas of woodland that are expected to be removed to accommodate the Proposed Development from each section of the pipeline corridor.</p> <p>ii) Annotate the extents or lengths to be removed on the Works Plans [AS-046], [AS-047] and [AS-048].</p>	<p>likely to be removed as a result of the project. Therefore, individual trees have not been included in the schedule of removal in Figure LV1.14.1 submitted with this response.</p> <p>1.3 In answer to ii), the Applicant does not consider it to be appropriate to update the Works Plans to illustrate the worst-case tree, hedgerow and woodland removal, as the exact extents of removal within the Order Limits are not known at this stage. However, a set of figures illustrating the locations of hedgerows and woodland within the Order Limits that are at risk of removal has been prepared and submitted along with this response, as Figure LV.1.14.1. Commitment G87 of the CoCP (<b>Document Reference 6.4 Appendix 16.1 (2)</b>), states that <i>'Vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the construction phase. The contractor(s) would implement these plans including agreed mitigation where practicable.'</i></p>



ExQ1	Question:	Applicant response to Question:
LV.1.15	<p>Potential impacts on landscape character are considered in Chapter 10 of the ES [APP- 050] during construction, at Year 1 and at Year 15 post construction, which assumes mitigation planting is established. However, in some paragraphs the assessment of effects at Year 15 seems to be at odds with the text which describes the effects, for example at paragraph 10.5.43: "Whilst reinstatement planting would have established to restore the landscape, it would not be possible to fully reinstate distinctive, mature vegetation and notable trees within 15 years. In year 15 post construction, the potential magnitude of impact would be small, and the significance of effect would be minor." There is no statement on the height that reinstatement planting is expected to have reached after 15 years, an important omission where the mitigation planting would be</p>	<p>1.1 In year 1 post construction, the height of reinstatement planting would depend on the plant stock size at the time of planting. The assessment within Environmental Statement (ES) Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>) assumed that native planting would typically comprise transplant planting at a height of approximately 0.6 to 0.9m.</p> <p>1.2 In year 15 post construction, the following heights for reinstatement planting have been assumed for the purposes of the assessment within ES Chapter 10 (<b>Application Document <a href="#">APP-050</a></b>):</p> <ul style="list-style-type: none"> <li>• Trees: 7m;</li> <li>• Shrubs: 3–4m; and</li> <li>• Hedgerows: 2m.</li> </ul>





ExQ1	Question:	Applicant response to Question:
	<p>relied upon in the assessment of residual effects at Year 15.</p> <p>Confirm what heights have been assumed for the proposed replacement planting in the assessment of the effects at Year 1 and Year 15 following completion of construction activities.</p>	
<b>LV.1.16</b>	<p>i) Explain whether there has been any assessment for the potential for die back to retained trees due to compaction from adjacent construction activities and windthrow to retained woodlands and plantations where these are crossed by the pipeline corridor.</p> <p>ii) Explain whether any mitigation measures would be implemented to address these issues.</p>	<p>1.1 In answer to i), the Applicant cannot yet confirm the trees that would be affected by compaction and windthrow because the detailed construction design necessary to determine the precise location of the replacement pipeline is not required to support the application for development consent. This is normally undertaken prior to construction and as part of the detailed design work on the eventual alignment of the pipeline. If the Applicant is granted development consent the pipeline could be installed anywhere within the limits of deviation. This flexibility is required in order to deal with unforeseen ground conditions and local features. For this reason, impacts from compaction or windthrow to specific trees has not and cannot be assessed and the precautionary approach was taken to assess the impact that all such trees within the Order Limits would be removed.</p> <p>1.2 In answer to ii), the Environmental Statement (ES) includes a number of commitments designed to avoid and reduce effects to trees, including potential for die back due to compaction or windthrow. These include:</p> <ul style="list-style-type: none"> <li>• Commitment G95 in Table 16.1 of Environmental Statement (ES) Chapter 16 (<b>Application Document APP-056</b>) states that 'The contractor(s) would consider and apply, where practicable, the relevant protective principles set out in the National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)). This would be</li> </ul>



ExQ1	Question:	Applicant response to Question:
		<p>applied to trees within the Order Limits which would be preserved through the construction phase, and to trees outside of the Order Limits where such measures do not hinder or prevent the use of the relevant working width for construction.'</p> <p>1.3 National Joint Utilities Group Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees ('NJUG Volume 4' (2007)) recommends the use of protective free-standing barrier to prevent damage to trees within the root protection Area (Precautionary Zone).</p> <ul style="list-style-type: none"> <li>• Commitment G65: <i>'Working widths would be reduced in specific locations where trees or hedges are present. Where notable, TPO, Ancient Woodland and veteran trees would be retained within or immediately adjacent to the Order Limits, the trees and their root protection areas would be protected where they extend within the Order Limits and are at risk. This would be by means of fencing or other measures'</i>.</li> <li>• Commitment G87: <i>'Vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the construction phase. The contractor(s) would implement these plans including agreed mitigation where practicable'</i>.</li> </ul> <p>1.4 Measures to reduce the risk of compaction and windthrow would be set out in the arboricultural management plan. This would be prepared as part of the Construction Environmental Management Plan, which would be 'submitted to and approved by the relevant planning authority' in accordance with DCO Requirement 6 (<b>Document Reference 3.1 (3)</b>).</p>
<b>LV.1.17</b>	The REAC (Ref G87 Table 16.2) [APP-056] states that "vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the construction phase.	<p>1.1 In answer to i), the exact details of vegetation retention, protection and replanting or reinstatement would be subject to detailed design. The detailed pipeline routing within the limits of deviation will need to optimise the alignment design, taking into account a number of environmental and technical constraints. The final pipeline route would therefore determine the extent to which existing vegetation can be retained, protected or reinstated,</p>

ExQ1	Question:	Applicant response to Question:
	<p>The contractor(s) would implement these plans including agreed mitigation where practicable". Chapter 10 of the ES [APP-050] states that "In order to consider a reasonable worst case, the assessment of potential impacts assumes loss of all trees and shrub vegetation within the Order Limits except where the good practice measures set out in Table 10.13 and reduced working widths identified within the REAC dictate otherwise". The REAC (Ref G91 Table 16.2) also states that "the contractor(s) would retain vegetation where practicable and in accordance with, as a minimum, the vegetation retention drawings."</p> <p>The ExA is concerned with the approach taken by the Applicant and the use of the words "where practicable". The wording would weaken the commitment to mitigation measures set out in the ES, REAC and draft DCO [AS-059] and could result in</p>	<p>the latter also taking into consideration restrictions on tree planting in the close proximity to the pipeline, valves or other infrastructure.</p> <p>1.2 Whilst vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the commencement of construction pursuant to Requirement 8 (Hedgerow and Trees) and Requirement 12 (Landscape and Ecological Management Plan), it is still possible that unforeseen circumstances could require variations to the alignment within the limits of deviation during the course of construction. Such variations would therefore have a consequential effect on the ability to implement the proposals set out in the pre-construction drawings. Examples of unforeseen circumstances could include archaeological finds, unexpected ground conditions, and discovery of protected species such as badgers or bats.</p> <p>1.3 The term 'where practicable' therefore recognises the numerous environmental and technical constraints that would need to be taken into consideration when implementing commitment G87 of the Register of Environmental Actions and Commitments (REAC) in Chapter 16 of the ES (<b>Application Reference APP-056</b>) and the potential need for adjustments to be made on site when implementing the detailed design in the event of any unforeseeable constraints.</p> <p>1.4 In answer to ii), the Applicant is of the view that they have fully committed to providing replacement planting save that it is not able to replace trees within the easement strip that extends either side of the pipeline once laid, and planting here would instead comprise native species of shrubs. Commitments set out within the REAC in ES Chapter 16 (<b>Application Document APP-056</b>) that relate to replacement replanting include:</p> <ul style="list-style-type: none"> <li>• Commitment G87: <i>'Vegetation clearance, retention, protection and replanting/reinstatement drawings would be produced prior to the construction phase. The contractor(s) would implement these plans including agreed mitigation where practicable'.</i></li> </ul>

ExQ1	Question:	Applicant response to Question:
	<p>significantly greater long-term landscape and visual effects than assessed in the ES, for example, if the Order Limits were kept free of trees.</p> <p>i) Confirm the circumstances in which it would not be practicable to implement the vegetation retention, protection and replanting or reinstatement;</p> <p>ii) Explain why the Applicant has not fully committed to provide replacement planting;</p> <p>iii) Explain whether there is uncertainty as to the extent of mitigation possible in practice; and</p> <p>iv) Confirm whether the ES [APP-050] has presented a worst-case assessment.</p>	<ul style="list-style-type: none"> <li>Commitment G88: <i>'Where possible, reinstatement of vegetation would generally be using the same or similar species to that removed (subject to restrictions for planting over and around pipeline easements).'</i></li> <li>Commitment G93: <i>'Hedgerows, fences and walls would be reinstated to a similar style and quality to those that were removed, with landowner agreement'.</i></li> <li>Commitment G98: <i>'Where woodland vegetation is lost and trees cannot be replaced due to the restrictions of pipeline easements, native shrub planting approved by the Applicant would be used as a replacement'.</i></li> </ul> <p>1.5 In answer to iii), as explained in the response to (i), the exact details of vegetation retention, protection and replanting or reinstatement would be subject to detailed design.</p> <p>1.6 In answer to iv), as explained in Chapter 10 of the ES (<b>Application Reference <a href="#">APP-050</a></b>) at paragraph 10.5.1, '...in order to consider a reasonable worst case, the assessment of potential impacts assumes loss of all trees and shrub vegetation within the Order Limits except where the good practice measures set out in Table 10.13 and reduced working widths identified within the REAC dictate otherwise. There is a commitment that the contractor(s) would retain vegetation where practicable and in accordance with, as a minimum, the vegetation retention drawings (G91). Therefore, tree loss would be expected to be less than the worst case assumed for the purposes of assessment.'</p> <p>1.7 The assessment in Chapter 10 of the ES (<b>Application Reference <a href="#">APP-050</a></b>) therefore adopts a reasonable worst-case scenario whereby, with certain exceptions, it is assumed that all trees within the Order Limits would be removed to facilitate installation of the project, unless otherwise stated in the REAC. This was because the project assumes limits of deviation within which the pipeline trench would be excavated, rather than a specific pipeline alignment, at this early stage in the design process. Since removal of all trees within the Order Limits is not the intention, the assessment has erred on the side of caution, and the overall environmental outcome following implementation of the pipeline</p>

ExQ1	Question:	Applicant response to Question:
		and associated mitigation measures is expected to be better than the worst case assessment.
<b>LV.1.18</b>	<p>The REAC (Ref: LV1 of Table 16.3) [APP-056] proposes native trees and hedgerow to be planted within areas identified as tree planting and hedge infilling in ES Figure 7.5 [APP- 061]. Chapter 10 of the ES [APP-050] states “this is a holistic approach to partly offset the envisaged loss of trees from the overall pipeline installation project.”</p> <p>i) Confirm whether the measures discussed here apply equally to REAC ref G87 in Table 16.2 in respect to vegetation clearance.</p> <p>ii) Explain the degree to which the extent of planting as illustrated in Figure 7.5 of the ES [APP-061] was determined and the agreements reached with</p>	<p>1.1 In response to i), commitment LV1 in the Register of Environmental Actions and Commitments (REAC) set out in Environmental Statement (ES) Chapter 16 (<b>Application Document APP-056</b>) relates to the planting of native trees and shrubs within defined areas shown on Figure 7.5 of the ES (<b>Application Document APP-061</b>). The reference to ‘vegetation clearance’ in commitment G87 in Chapter 16 of the ES (<b>Application Document APP-056</b>) is therefore a separate issue. Commitment G87 would cover where vegetation clearance is required to facilitate installation of the pipeline ‘<i>vegetation clearance... drawings [that] would be produced prior to the construction phase</i>’. Commitment G87 also covers replanting, therefore where appropriate the drawings would also include the proposed native tree and hedgerow planting indicated on Figure 7.5 of the ES.</p> <p>1.2 In response to ii), there has been no specific consultation to date on the extent of planting shown on Figure 7.5 of the ES (<b>Application Document APP-061</b>). However, DCO Requirement 12 (<b>Document Reference 3.1 (3)</b>) states that ‘<i>no stage of the authorised development must commence until... a written landscape and ecological management [(LEMP)] plan reflecting the... measures included in the REAC...has been submitted to and approved by the relevant planning authority</i>’. The relevant planning authorities would therefore be consulted on the design of proposed planting within the areas defined on Figure 7.5 of the ES (<b>Application Document APP-061</b>). In addition, the Applicant would also engage with the Interested Parties, for example the landowner, regarding reinstatement plans.</p>



ExQ1	Question:	Applicant response to Question:
	<p>relevant Interested Parties and Statutory Bodies.</p> <p>iii) Explain the detailed design process that will lead to the implementation of the proposed planting.</p> <p>iv) Explain who will be consulted on and approved the proposed extent of planting, species, densities and heights of planting.</p> <p>v) Provide details of monitoring and aftercare measures proposed to be applied to reinstated features, mitigation planting and tree and hedgerow infilling and how these will be secured in the draft DCO [AS-059].</p>	<p>1.3 In response to iii), during the detailed design stage, the pipeline routeing will become further refined and there will be a better understanding of the vegetation that would be a retained or lost as a result of the works. This information would inform the Arboricultural Management Plan, which would form part of the Construction Environmental Management Plan (CEMP). The detailed designs would also inform the production of the LEMP, which would set out the proposals for reinstatement. The CEMP and LEMP would both be submitted to the relevant planning authorities for approval (Requirement 6 and Requirement 12 respectively).</p> <p>1.4 In response to iv), As noted in the response to ii), these details would be contained within the CEMP and LEMP which would be submitted to the relevant planning authority for approval.</p> <p>1.5 In response to v), commitment G92, as secured by DCO Requirements 5, 8 and 12, states that '<i>A three-year aftercare period would be established for all mitigation planting and reinstatement</i>'. DCO Requirement 12 (<b>Document Reference 3.1 (3)</b>) requires preparation of an LEMP. DCO Requirement 8 (<b>Document Reference 3.1 (3)</b>) states that '<i>Any hedgerow or tree planting which is part of an approved reinstatement plan that, within a period of three years beginning with the date of planting, is removed, uprooted, destroyed, dies or (in the reasonable opinion of the relevant planning authority) becomes seriously damaged or defective, must be replaced with planting material of the same specification as that originally planted</i>'.</p>

ExQ1	Question:	Applicant response to Question:
<b>LV.1.19</b>	<p>The REAC (Ref: G97 of Table 16.2) [APP-056] proposes the use of native shrub planting where woodland vegetation is lost and trees cannot be replaced due to the restrictions of pipeline easements.</p> <p>i) Confirm whether Local Authorities, the National Park Authority, NE and local wildlife trusts will be invited to, or have made comments on the proposed species for replacement shrub, hedgerow, tree and woodland planting.</p> <p>ii) Confirm how grass seed mixes would be selected.</p>	<p>1.1 In answer to i), the landscape and ecological management plan (LEMP) would be submitted to the relevant planning authorities for their approval in accordance with Requirement 12 of the draft Development Consent Order (DCO) (<b>Document Reference 3.1 (3)</b>). The LEMP would include a written plan of reinstatement in accordance with draft DCO Requirement 8 (<b>Document Reference 3.1 (3)</b>), which states that <i>'the reinstatement of all hedgerows and trees must be undertaken in accordance with a written plan of reinstatement... [which] must form part of the landscape and ecological management plan approved in accordance with Requirement 12 (landscape and ecological management plan).'</i> Species selection would form part of this plan.</p> <p>1.2 The relevant planning authorities could consult Natural England and the local wildlife trusts on the LEMP at their discretion.</p> <p>1.3 In answer to ii), the proposals for grass seed mixes would be included in the LEMP. The seed mixes would be selected to suit existing ground conditions in line with commitment G94 which states that <i>'Land used temporarily would be reinstated to an appropriate condition relevant to its previous use'</i> and commitment G88 which states that <i>'Where possible, reinstatement of vegetation would generally be using the same or similar species to that removed (subject to restrictions for planting over and around pipeline easements).'</i></p>
<b>LV.1.21</b>	<p>The ExA acknowledges the working width is defined in Chapter 3 of the ES [APP-043]. The REAC [APP-056] records the sections of the route where there is a commitment to reduce the working width as mitigation. However, the General Arrangement Plans [APP-022], [APP-023] and [APP-024] are for</p>	<p>1.1 In response to (i), the areas where the Applicant is making a commitment to reduce the working width as part of the embedded design measures are depicted by the purple shaded areas on the General Arrangement Plans (<b>Additional Submission <a href="#">AS-056</a>, <a href="#">AS-057</a> and <a href="#">AS-058</a></b>). The ExA's attention is drawn to the legend on these plans which explains how the narrow working areas are shown on the General Arrangement Plans. In the case of the illustration that the ExA has made reference to, General Arrangement Plans sheet 28, the 15 meter wide working width committed to in the REAC as NW7 is labelled on the sheet as NW7 and shaded purple as the Order Limits go through Oak Park Golf Course. The Order Limit is kept at 26.1m because the Applicant would like to retain flexibility to choose where the 15m wide working width would go within the Order Limits</p>



ExQ1	Question:	Applicant response to Question:										
	<p>the most part unchanged. An illustration of this is reference to General Arrangement Plans drawing sheet 28, where the REAC makes a commitment to a 15m working width, but the Order Limit is annotated at 26.1m.</p> <p>i) Explain the anomalies.</p> <p>ii) Explain how the locations within the Order Limits will be determined.</p> <p>iii) Explain how the assumptions, if any, have been made in the assessment of effects as the locations of narrow working areas.</p>	<p>depending on where the pipeline could be located within the limits of deviation and local constraints that may be encountered within the Order Limits. The fine routing of the pipeline would be developed at the detailed design stage.</p> <p>1.2 In response to (ii), the locations where narrow working is committed to are determined by the purple shaded areas shown on the General Arrangement Plans (<b>Additional Submission</b> <a href="#">AS-056</a>, <a href="#">AS-057</a> and <a href="#">AS-058</a>).</p> <p>1.3 In response to (iii), the assessment of effects has taken into account the fact that the narrow working width could be anywhere within the Order Limits if their location is not specified. Where narrow working has been taking into account in the assessment, this is referenced in the text, for example at paragraph 10.5.91 in Environmental Statement Chapter 10 (<b>Application Document</b> <a href="#">APP-050</a>) in relation to west of Ewshot Wood, which states '<i>There would be negligible effects on Potential Ancient Woodland (undesigned) because narrow working would apply here (NW33), and the haul road and pipe installation would utilise an existing 5m gap between two areas of ancient woodland above a culvert</i>'.</p>										
LV.1.22	<p>i) Confirm the working widths for the proposed pipeline corridor sections: NW/11/13; NW15; NW20; NW23/24; NW30; and NW33.</p> <p>ii) Explain how the reduced working width areas would be secured in the draft DCO [AS-059].</p>	<p>1.1 In response to i), the proposed working widths for the referenced pipeline corridor sections are as follows:</p> <table><tr><th>Narrow Working ID</th><th>Working Width</th></tr><tr><td>NW11</td><td>15m</td></tr><tr><td>NW13</td><td>15m</td></tr><tr><td>NW15</td><td>5m</td></tr><tr><td>NW20</td><td>15m</td></tr></table>	Narrow Working ID	Working Width	NW11	15m	NW13	15m	NW15	5m	NW20	15m
Narrow Working ID	Working Width											
NW11	15m											
NW13	15m											
NW15	5m											
NW20	15m											



ExQ1	Question:	Applicant response to Question:										
			<table><tr><td>NW23</td><td>20m</td></tr><tr><td>NW24</td><td>20m</td></tr><tr><td>NW30</td><td>10m</td></tr><tr><td>NW33</td><td>5m</td></tr></table>	NW23	20m	NW24	20m	NW30	10m	NW33	5m	
NW23	20m											
NW24	20m											
NW30	10m											
NW33	5m											
		1.2	In response to ii), the reduced working width and narrow working Techniques are stipulated in Annex A of the Code of Construction Practice ( <b>Document Reference 6.4 Appendix 16.1 (2)</b> ). Grid references are provided in Annex A and references also shown in the General Arrangement Plans ( <b>Additional Submission <a href="#">AS-056</a>, <a href="#">AS-057</a> and <a href="#">AS-058</a></b> ). They are therefore secured by Requirement 5 of the draft DCO ( <b>Document Reference 3.1 (3)</b> ). It is not possible to give a firm boundary of the reduced working widths in the General Arrangement Plans as the lateral location of the working width within the Order Limits will be dependent upon where the pipeline is located within the limits of deviation.									
LV.1.23	<p>The Forestry Commission indicated [AS-028] that discussions are taking place with the Applicant in respect of a methodology for working within tree root zones of Ancient Woodland and the need for a 15m buffer zone to be established.</p> <p>Update this position and how discussions have progressed with the Forestry Commission, the Woodland Trust and NE.</p>	1.1	To reflect concerns raised by the Forestry Commission and Natural England, the Applicant has prepared a Technical Note on Ancient Woodland and Veteran Trees which sets out the approach to reduce the impacts of the project on ancient woodland and potential ancient woodland within 15m of the Order Limits. This follows a hierarchy, ranging from the use of buffers and ground protection around ancient trees and woodland, to the requirement for specialist construction techniques to be used for any unavoidable excavation within root protection areas. The project had regard to the standing advice from the Forestry Commission and Natural England ( <i>Ancient woodland, ancient trees and veteran trees: protecting them from development, 2018</i> ) when developing the hierarchy of mitigation principles, with avoidance of works within 15m of the edge of ancient woodland recommended where practicable.									
		1.2	The Technical Note has been submitted to the Forestry Commission and Natural England, as part of agreeing the Statement of Common Ground.									





ExQ1	Question:	Applicant response to Question:
	<p>N.B – There is an overlap between this question and questions BIO.1.18 and BIO.1.20 you may therefore wish to provide a combined response to these questions.</p>	<p>1.3 Natural England has signed a SoCG with the Applicant (<a href="#">REP1-005</a>), section 3 of which sets out agreement on matters including:</p> <ul style="list-style-type: none"> <li>• avoiding classified ancient woodland and reducing impacts on potential ancient woodland;</li> <li>• the mitigation proposed in chapters 7 (<b>Application Document <a href="#">APP-047</a></b>) and 16 (<b>Application Document <a href="#">APP-056</a></b>) of the ES.</li> <li>• working methods in relation to ancient woodland and veteran trees.</li> </ul> <p>1.4 The Forestry Commission has signed an SOCG with the Applicant (<b>Document Reference 8.6.20</b>), section 3 of which sets out agreement on matters including:</p> <ul style="list-style-type: none"> <li>• that the proposed approach to mitigating effects on Ancient Woodland, potential ancient woodland and veteran trees, as described in the ES (<b>Application Document <a href="#">APP-056</a></b>) and the further information included in the Ancient Woodland and Veteran Trees Technical Note (<b>Document Reference 8.15</b>), are appropriate.</li> <li>• that appropriate measures have been taken to identify all areas of Ancient Woodland, and areas of Potential Ancient Woodland that do not appear on Natural England's Ancient Woodland Inventory;</li> <li>• that the Order Limits avoid all areas of existing classified Ancient Woodland;</li> <li>• that the route will avoid all recorded ancient trees identified by the Ancient Tree Forum/ Inventory. Technical Note: Ancient Woodland and Veteran Trees provides clarity.</li> </ul> <p>1.5 The Woodland Trust's concerns regarding a buffer zone for ancient woodland were taken into account when developing the Technical Note, described above.</p>



ExQ1	Question:	Applicant response to Question:
LV.1.24	Explain the criteria used to determine when a narrow working width would be used and why it is not proposed in public parks such as Queen Elizabeth Country Park and Fordingbridge Park, but it is proposed at Turf Hill.	<p>1.1 A narrow working width <u>is</u> proposed in both Queen Elizabeth Park and Fordingbridge Park. This is shown on the following General Arrangement drawings:</p> <ul style="list-style-type: none"> <li>• for Queen Elizabeth Park: NW17 shown on Sheets 34 and 35 (<b>Additional Submission <a href="#">AS-058</a></b>); and</li> <li>• for Fordingbridge Park: NW30 shown on Sheet 52 (<b>Additional Submission <a href="#">AS-058</a></b>).</li> </ul> <p>1.2 The position of the reduced working width corridor within the Order Limits has not yet been determined but would be a 15m width for NW17 and a 10m width for NW30. The determination of when a narrow working width would be used is based on a number of factors, such as:</p> <ul style="list-style-type: none"> <li>• whether there is sufficient width to undertake the works safely and effectively;</li> <li>• if narrow working allowed the wider area affected to be reinstated and back into use more quickly; and</li> <li>• if narrow working would reduce the effects on 'sensitive' features, but still retain the route outside of the immediate 'sensitive' feature (the required working width and pipeline alignment may be driven by other elements outwith the area of the sensitive feature).</li> </ul> <p>1.3 See response to ALT.1.5 (<b>Document Reference 8.6.01</b>) for further information.</p>



## **2 References**

British Standards Institution (2012). BS 5837:2012 Trees in relation to design, development and construction. London: British Standards Institution.

Landscape Institute and Institute of Environmental Management and Assessment (2013). Guidelines for Landscape and Visual Impact Assessment, Third Edition (GLVIA3). London: Routledge.

The National Joint Utilities Group (2007). NJUG Volume 4: NJUG guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees.

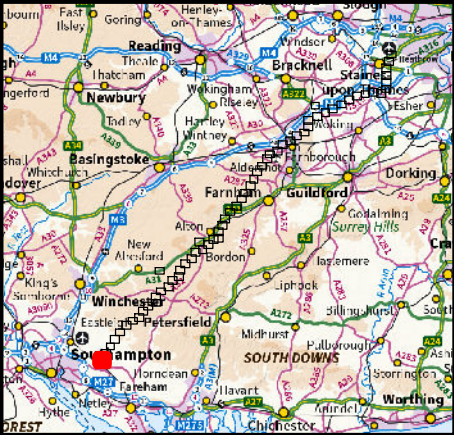
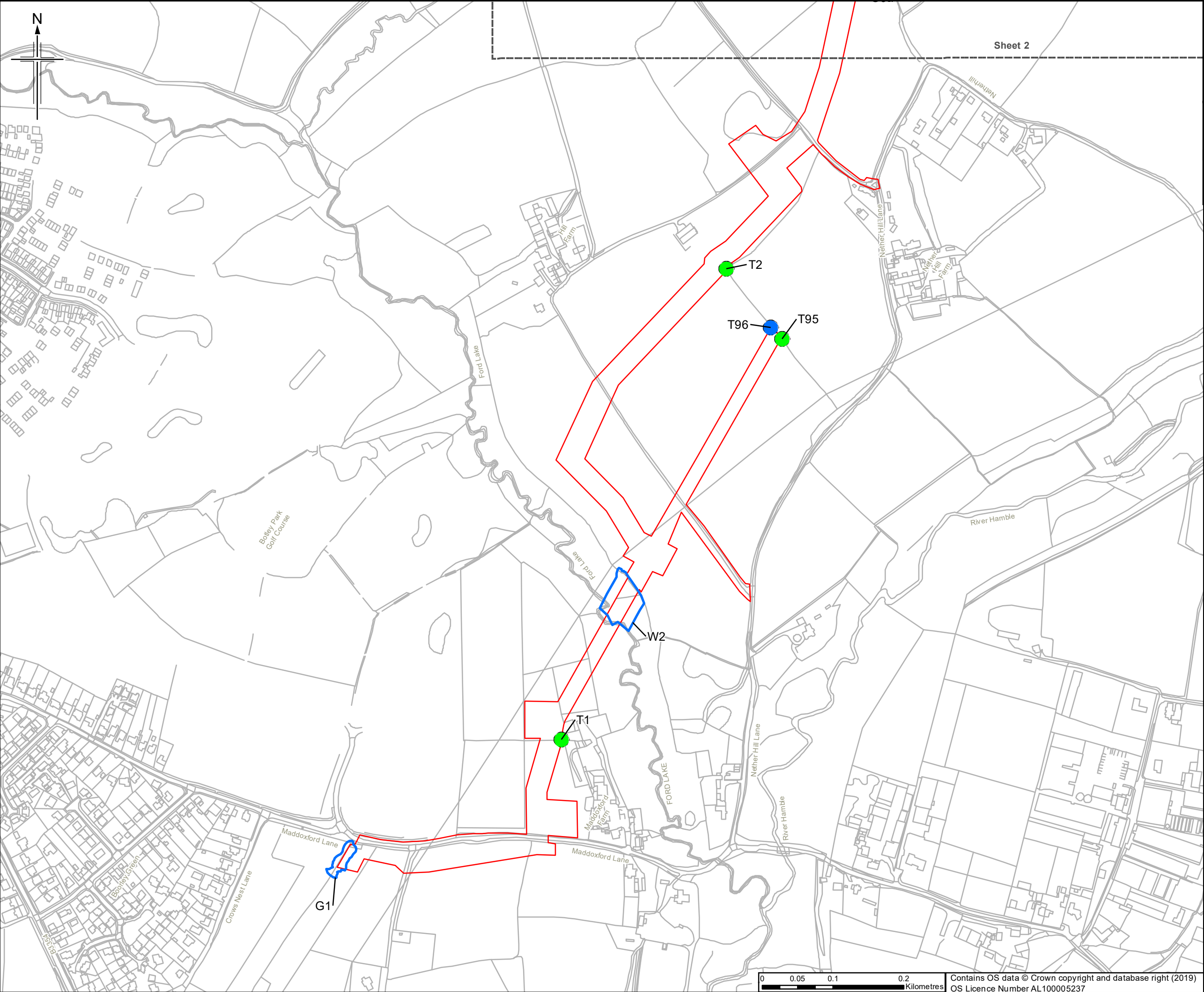
Forestry Commission (2005). The Forestry Commission information note on The Influence of Soils and Species on Tree Root Depth. Accessed 22 October 2019.

The National Joint Utilities Group (2007). NJUG Volume 4: NJUG guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees.



### **3 Figures**

#### **Figure LV.1.9.1: Notable Tree Plans**



- Legend**
- Order Limits
  - Notable category A  
individual trees (British Standard 5837: 2012)
  - Notable category B  
individual trees (British Standard 5837: 2012)
  - Notable category B tree  
groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwnl	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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Project  
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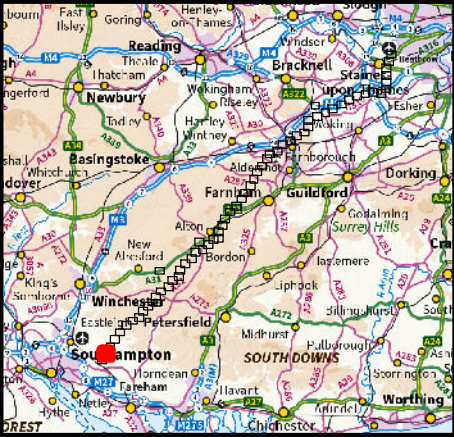
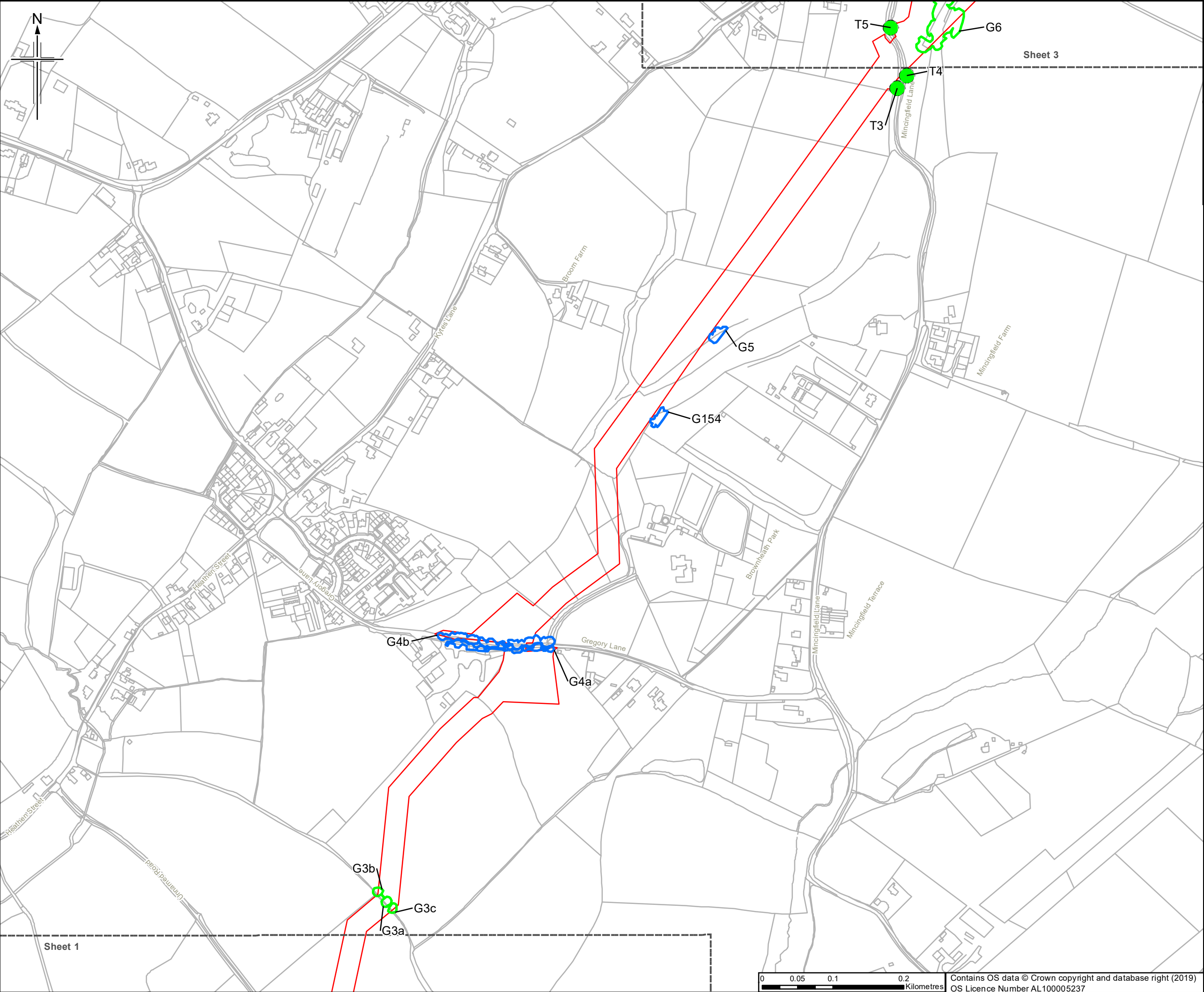
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**NOTABLE TREES PLAN**

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Jacobs No.	B2325300		
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 1 of 62		Rev 0

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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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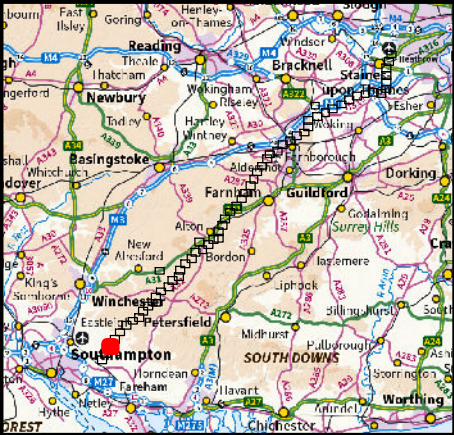
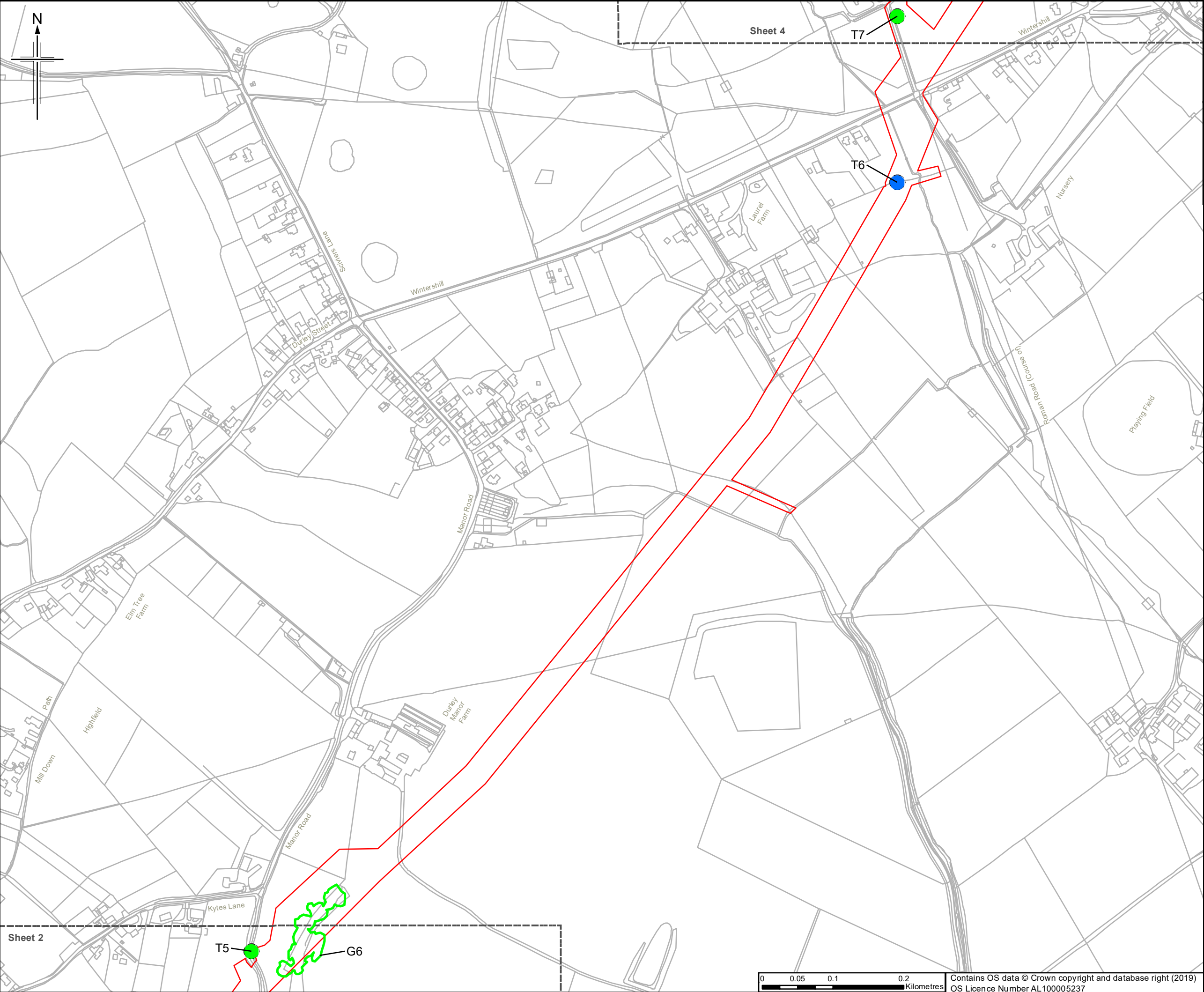
Client  
Esso Petroleum Company, Limited  
Ermy House,  
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Leatherhead,  
Surrey,  
KT22 8UX

Project  
 Southampton to London Pipeline Project

Drawing title  
NOTABLE TREES PLAN

Drawing Status	For issue		
Scale	1:5,000	@ A3	DO NOT SCALE
Jacobs No.	B2325300		
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 2 of 62	Rev	0

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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Appr'd
0	12/11/2019	For Issue	LM	DR/TC	LD	SN

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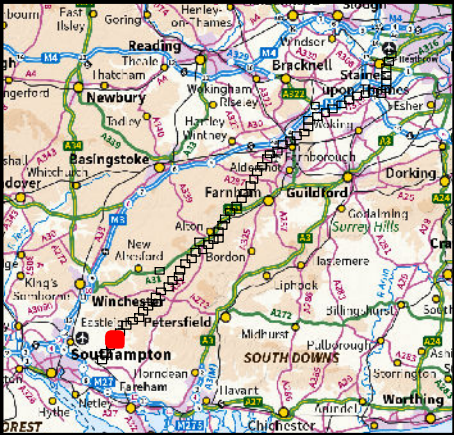
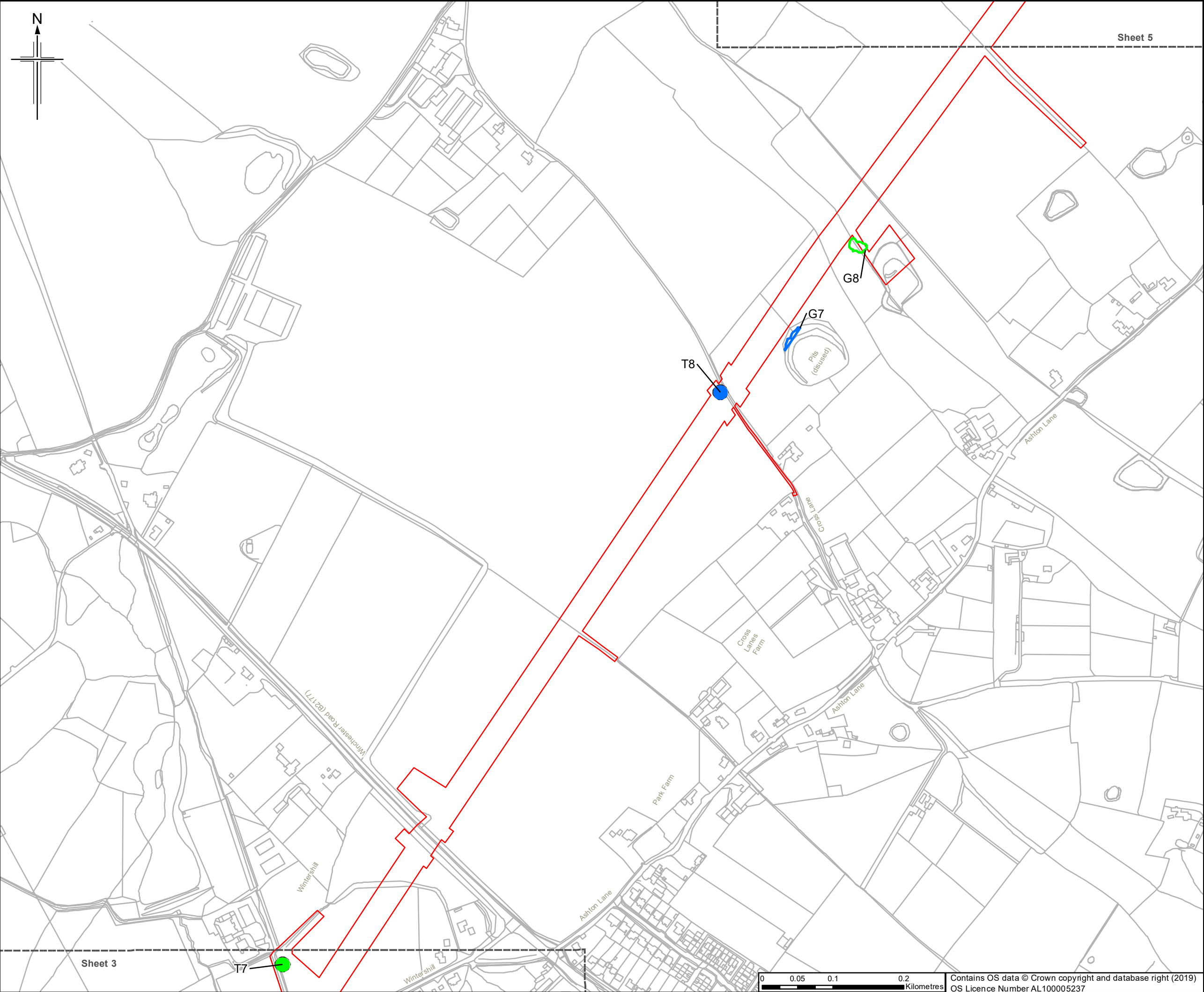
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 3 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwnl	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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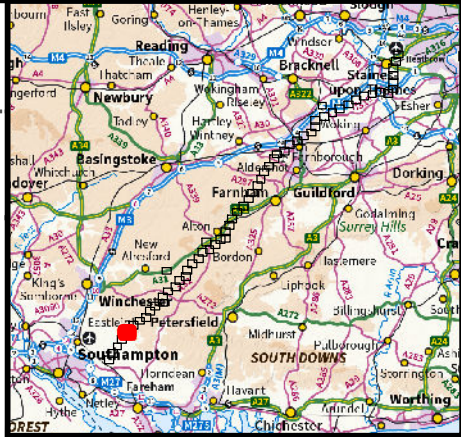
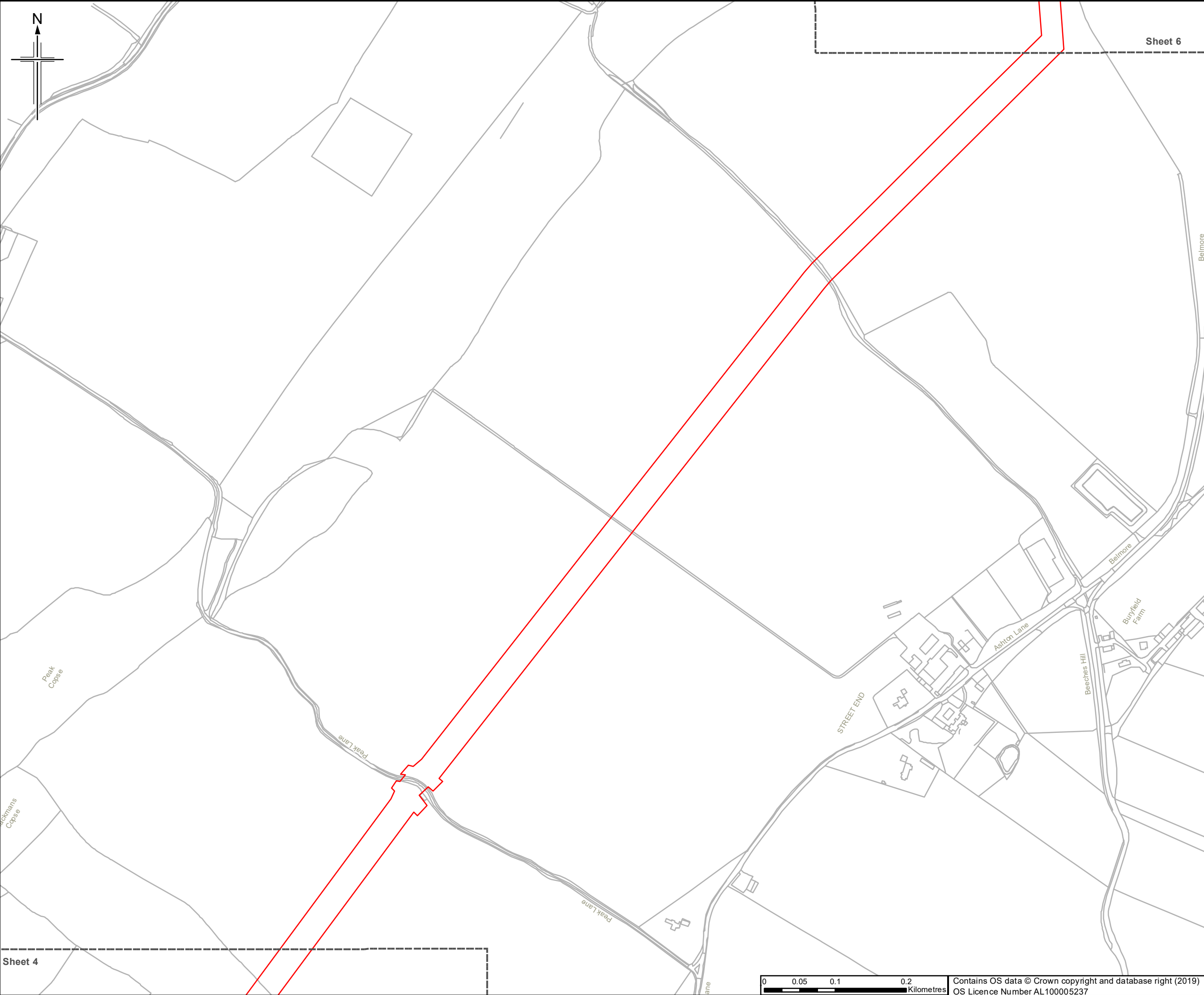
Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 4 of 62
Rev	0

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**Legend**

Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For Issue	LM	DR/TC	LD	SN

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Drawing title

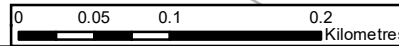
NOTABLE TREES PLAN

Drawing Status	For Issue		
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Jacobs No.	B2325300		
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 5 of 62	Rev	0

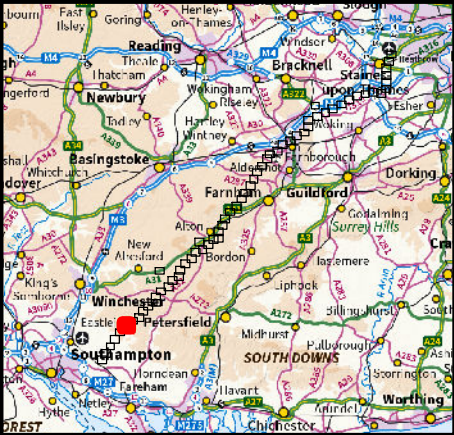
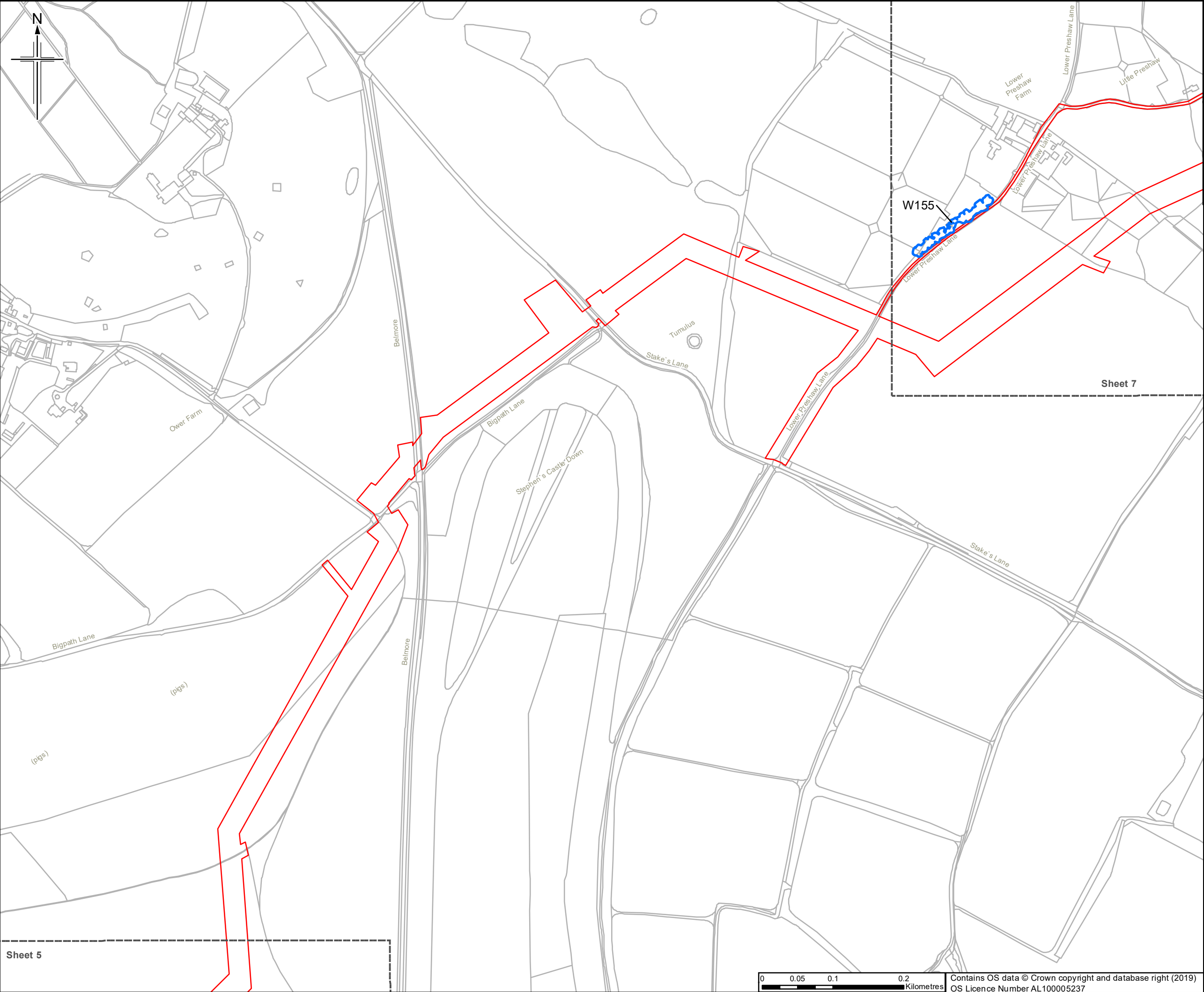
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Sheet 4

Sheet 6



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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Chkd	Rev'd	Appr'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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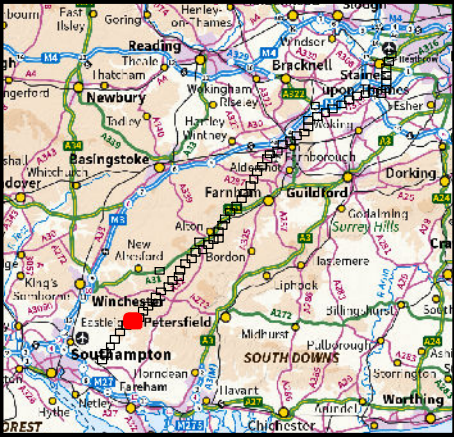
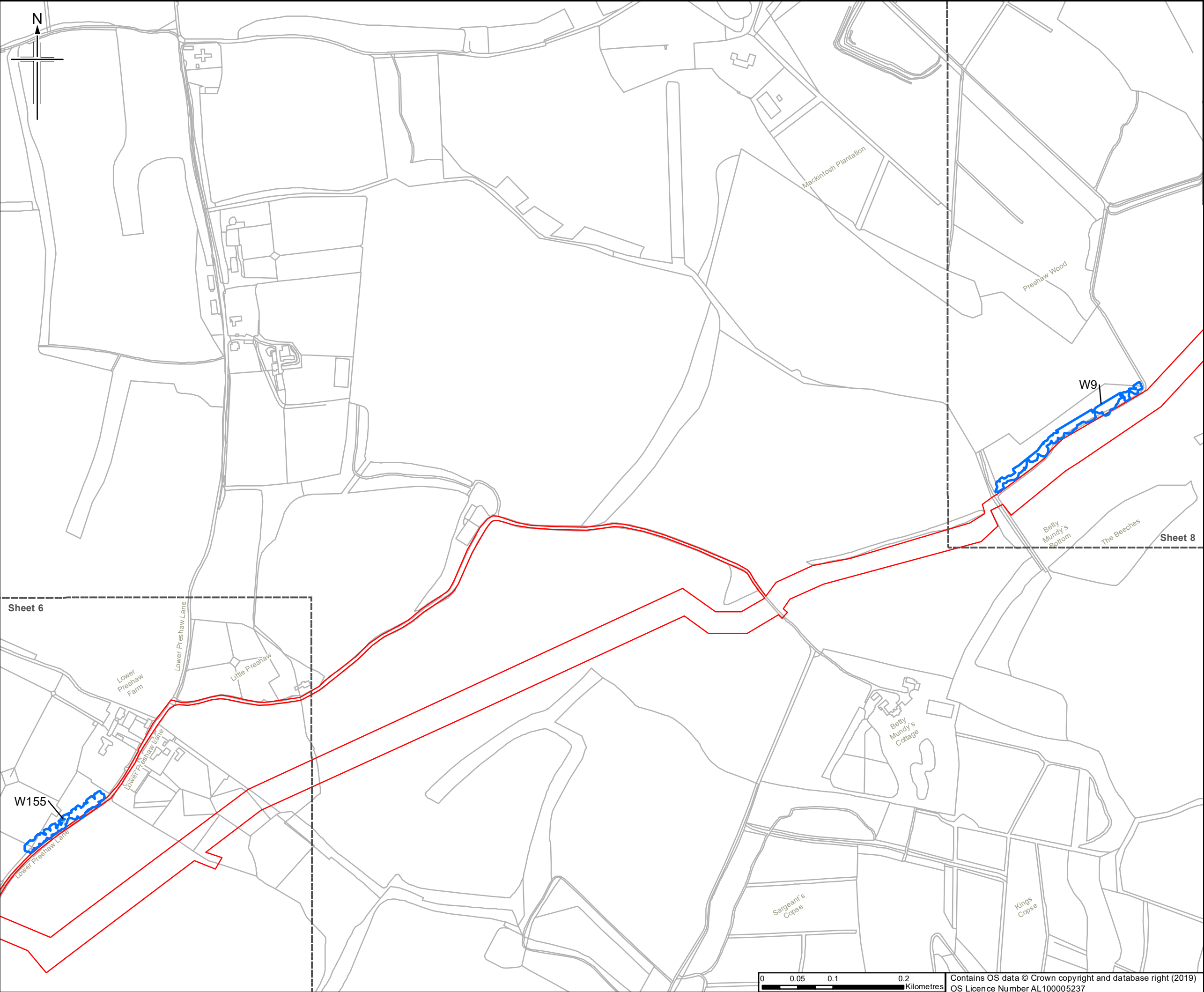
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 6 of 62
Rev	0


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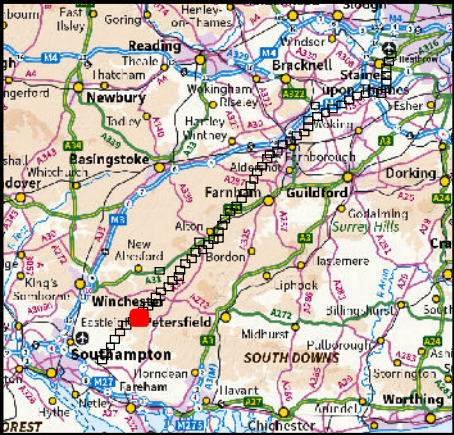
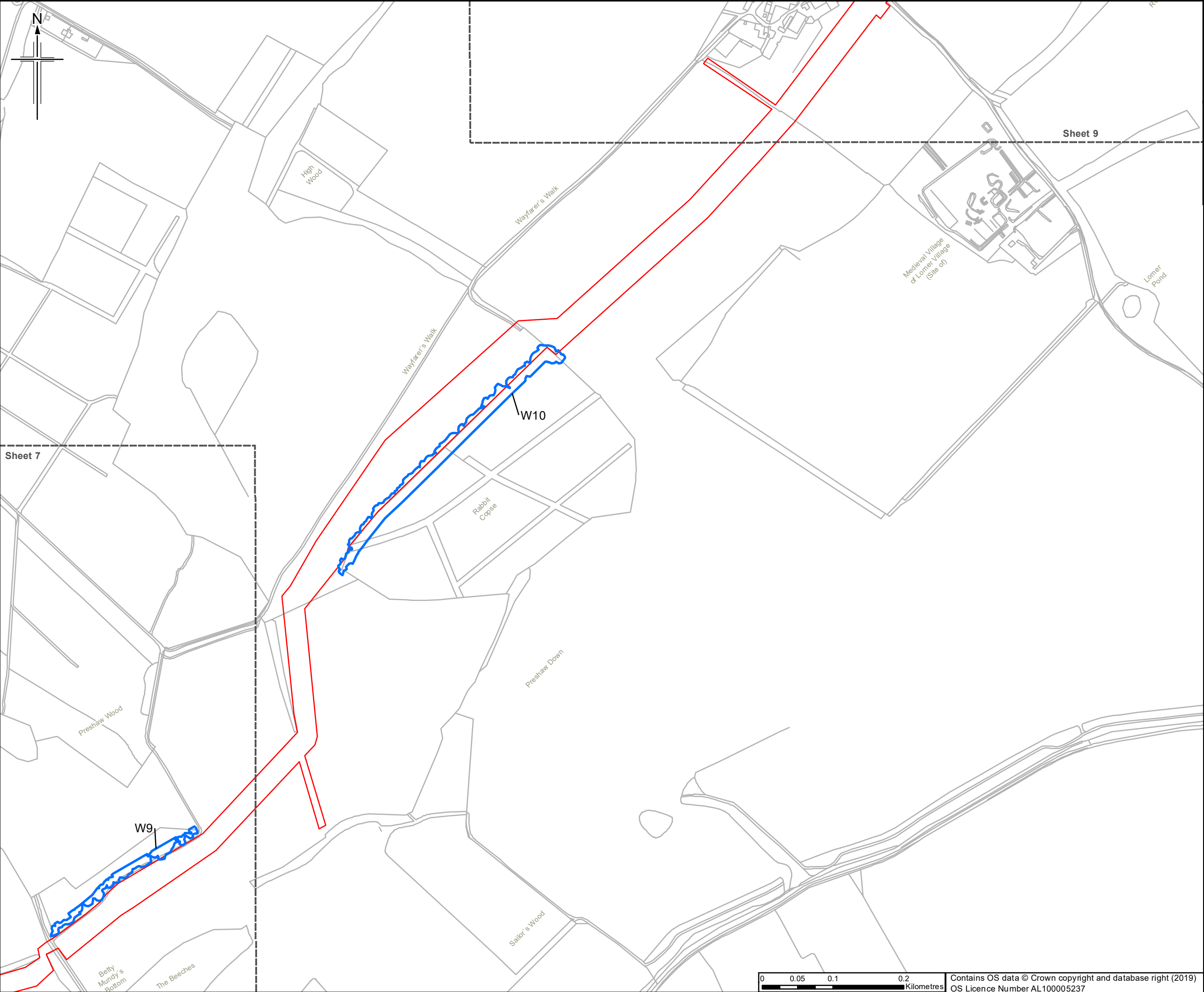
- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019		For Issue	LM	DR/TC	LD	SN		
Rev.	Rev. Date	Purpose of revision			Orig/Dwn	Checkd	Rev'd	Apprv'd	Author
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Project									
<div><div><div><div></div><div>Southampton to London Pipeline Project</div></div></div></div>									
Drawing title									
NOTABLE TREES PLAN									
Drawing Status									
For Issue									
Scale	1:5,000 @ A3			DO NOT SCALE					
Jacobs No.	B2325300								
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117								
Drawing number	Figure LV.1.9.1 Sheet 7 of 62							Rev	0
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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Project

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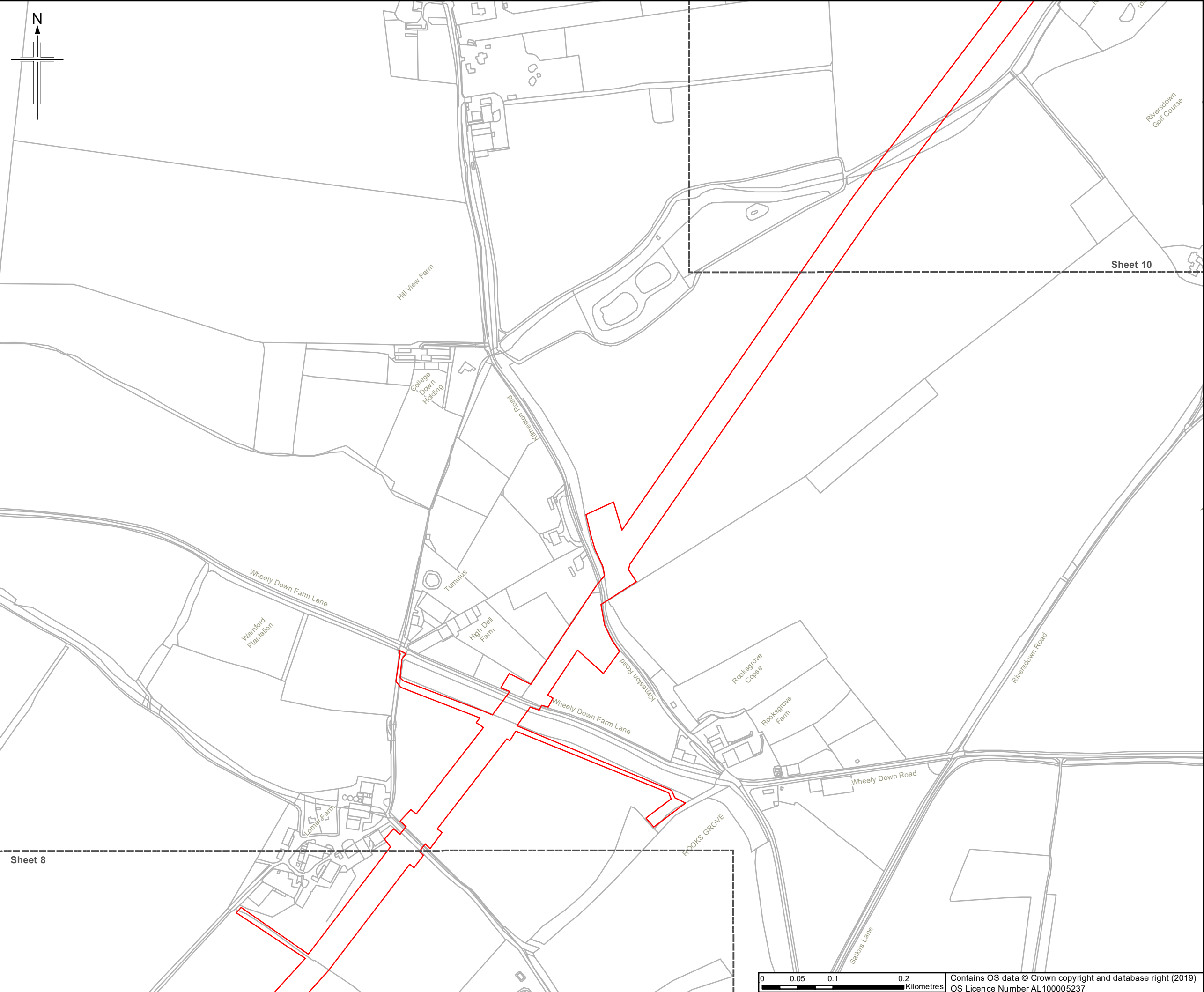
Drawing title

NOTABLE TREES PLAN

Drawing Status	For issue		
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Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 8 of 62	Rev	0

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**Legend**

Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For Issue	LM	DR/TC	LD	SN

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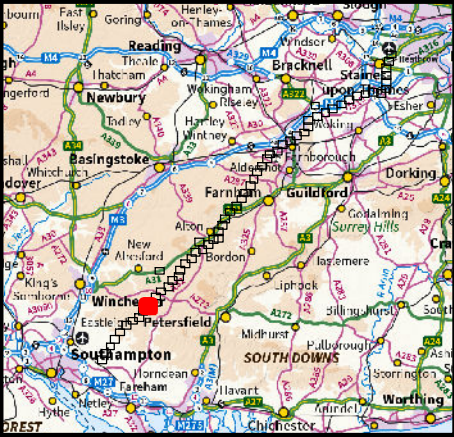
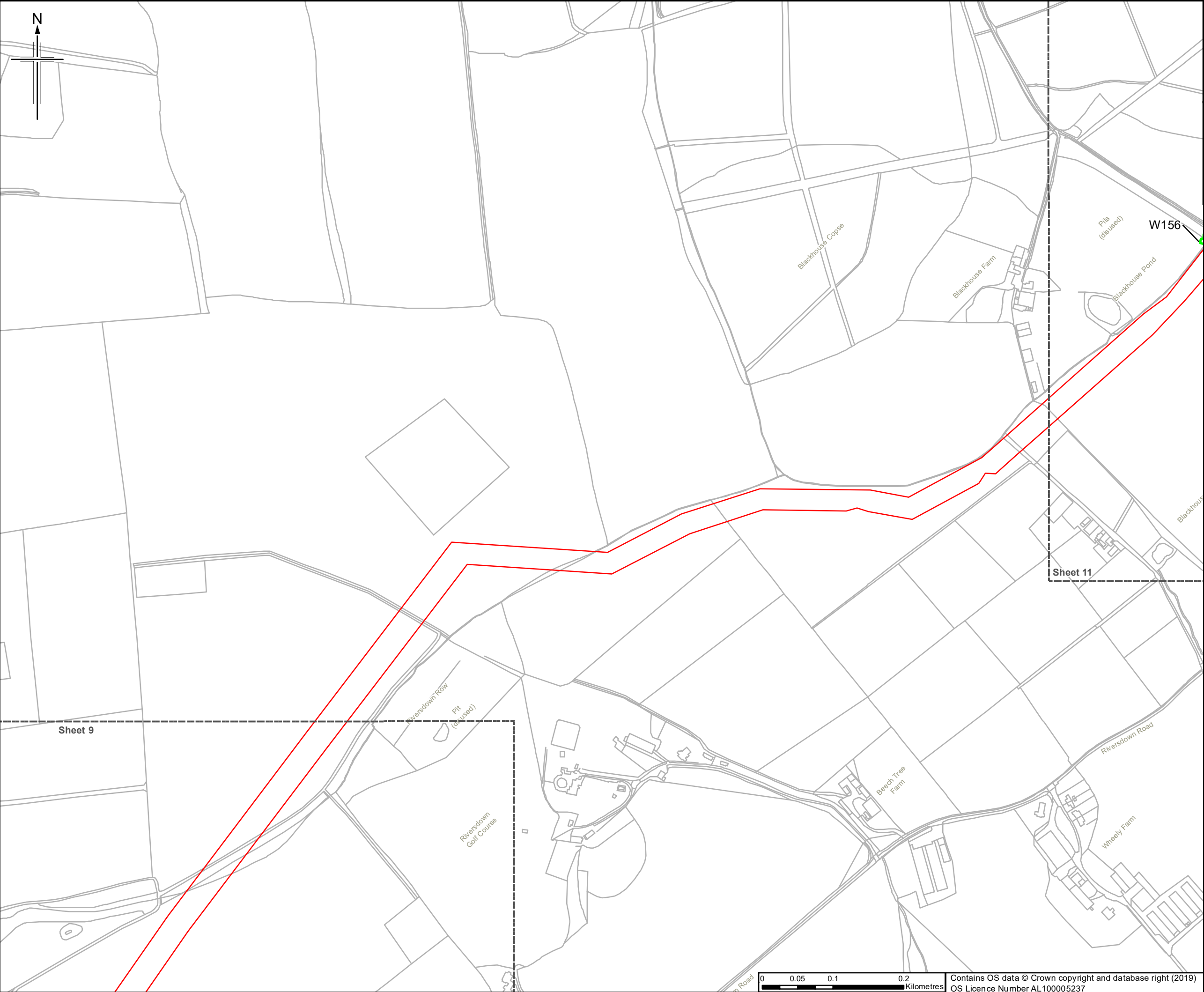
 Southampton to London Pipeline Project

Drawing title

NOTABLE TREES PLAN

Drawing Status	For Issue
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Jacobs No.	B2325300
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 9 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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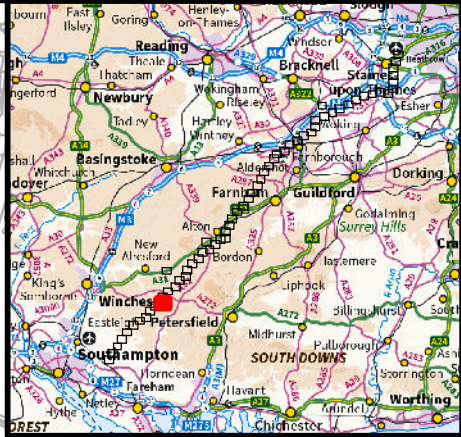
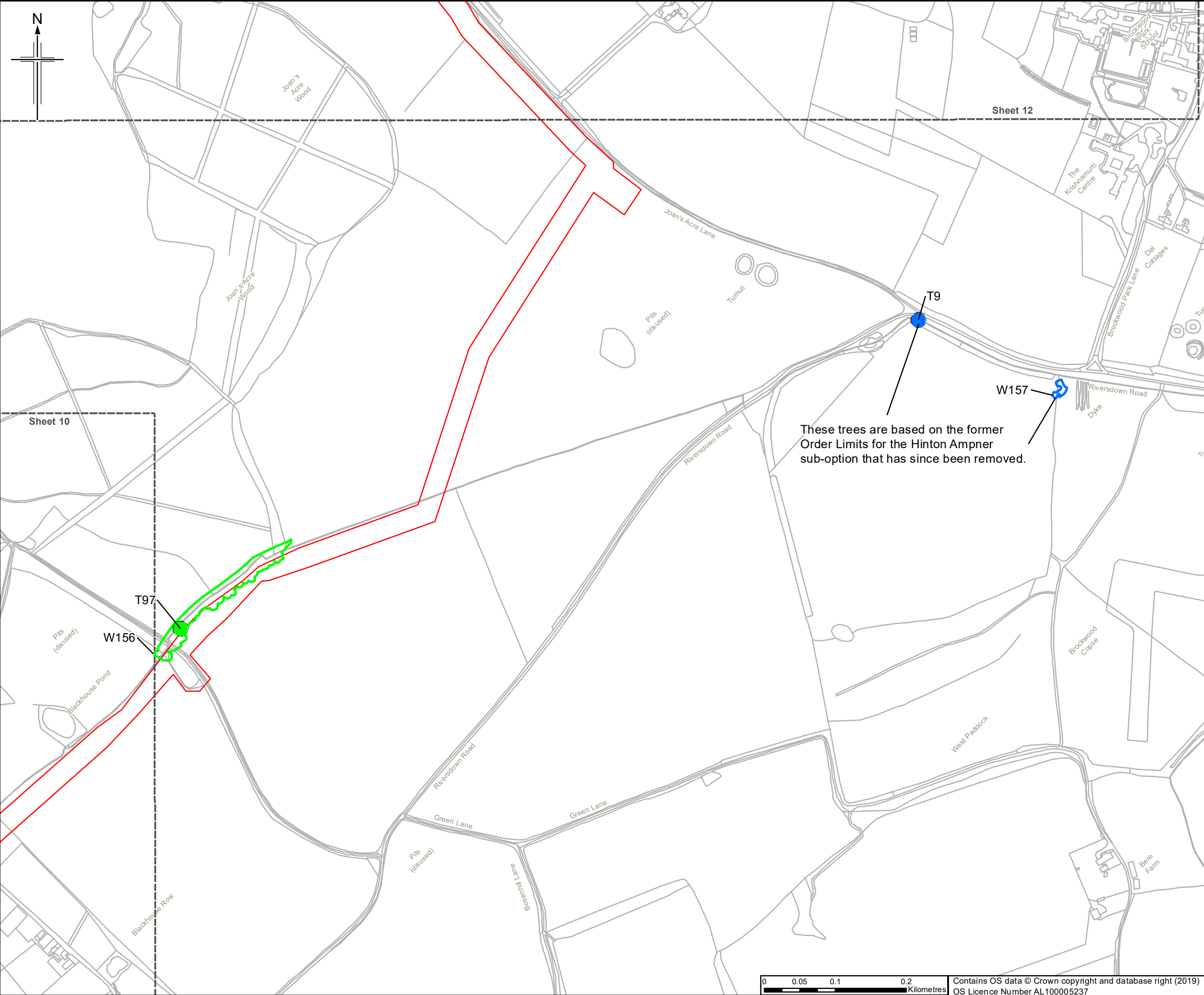
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
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Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 10 of 62
Rev	0

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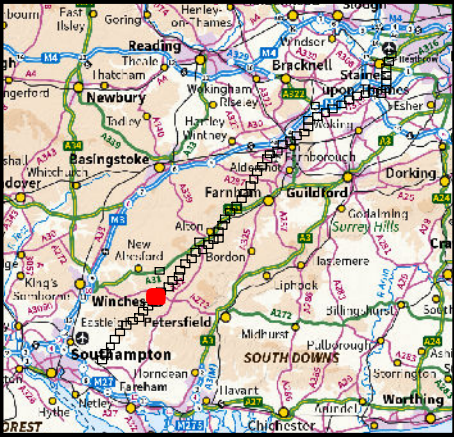
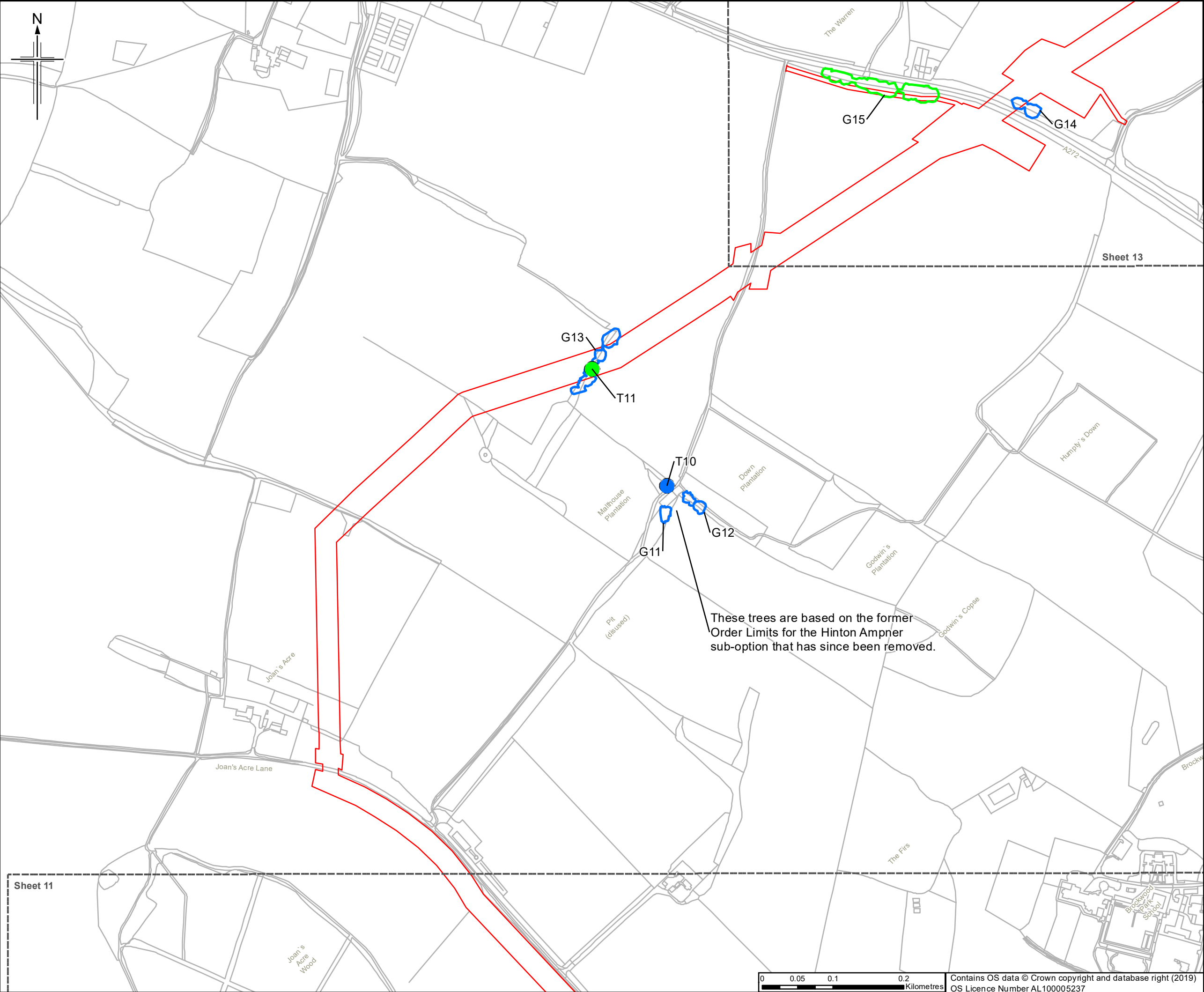
- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
  - Notable category A tree
    - groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree
    - groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client						
Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div><div></div><div>Southampton to London Pipeline Project</div></div>						
Drawing title						
NOTABLE TREES PLAN						
Drawing Status						
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Scale	1:5,000		@ A3		DO NOT SCALE	
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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 11 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
  - Notable category A tree
    - groups/woodlands (British Standard 5837: 2012)
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    - groups/woodlands (British Standard 5837: 2012)

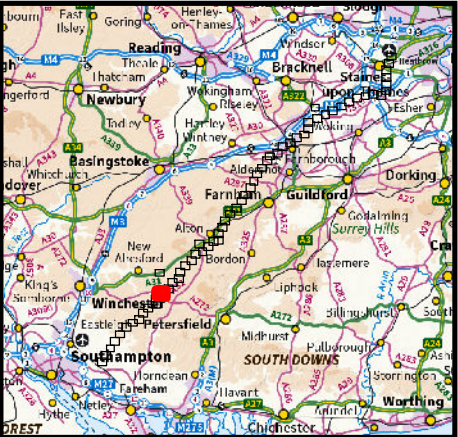
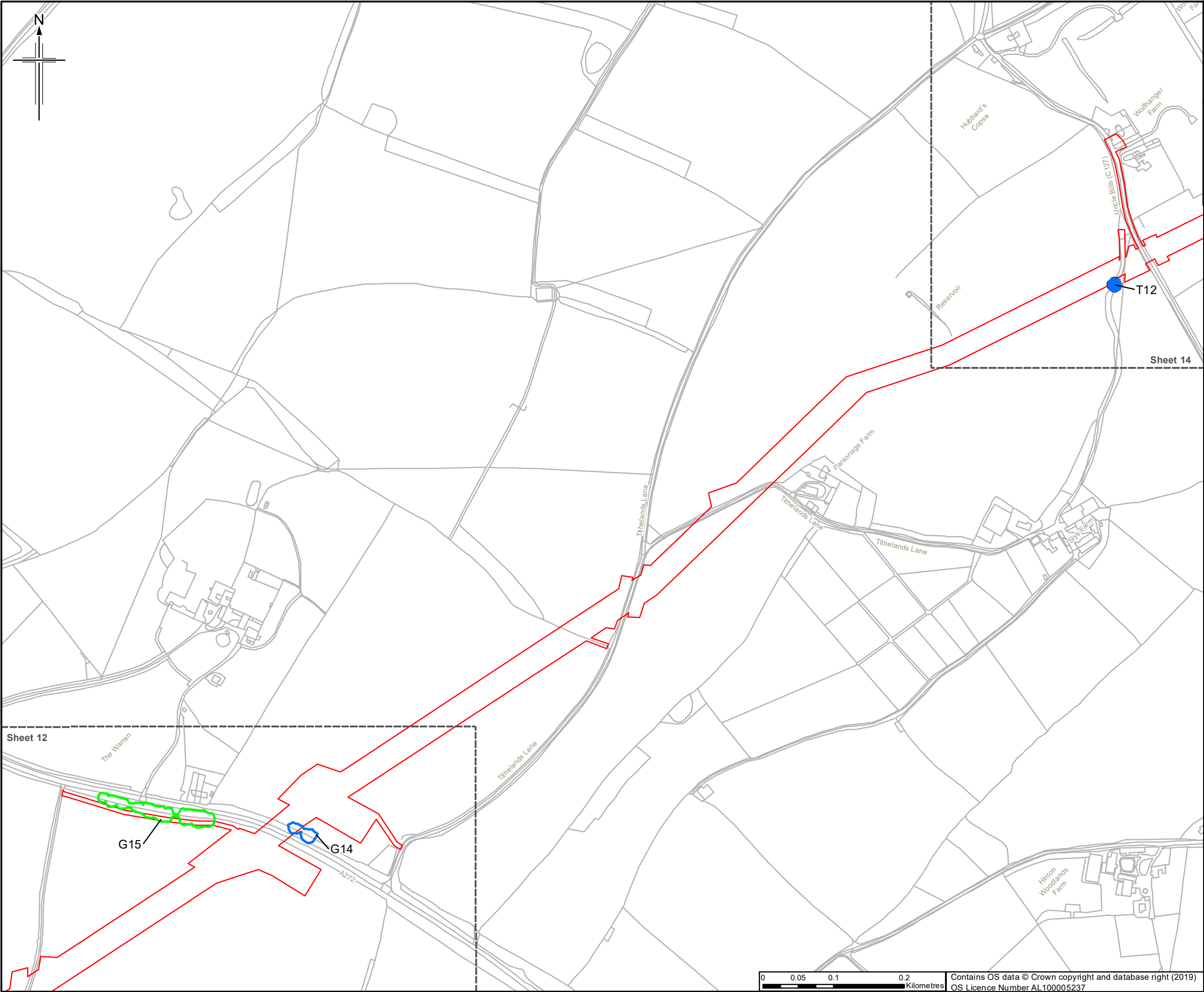
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
Author						
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Client						
Esso Petroleum Company, Limited Ermyon House, Ermyon Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div> Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
Drawing Status						
For Issue						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 12 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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Project  
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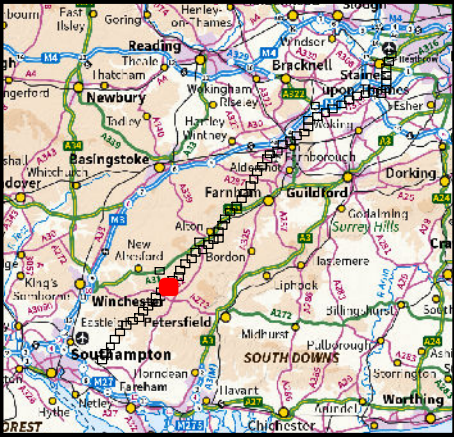
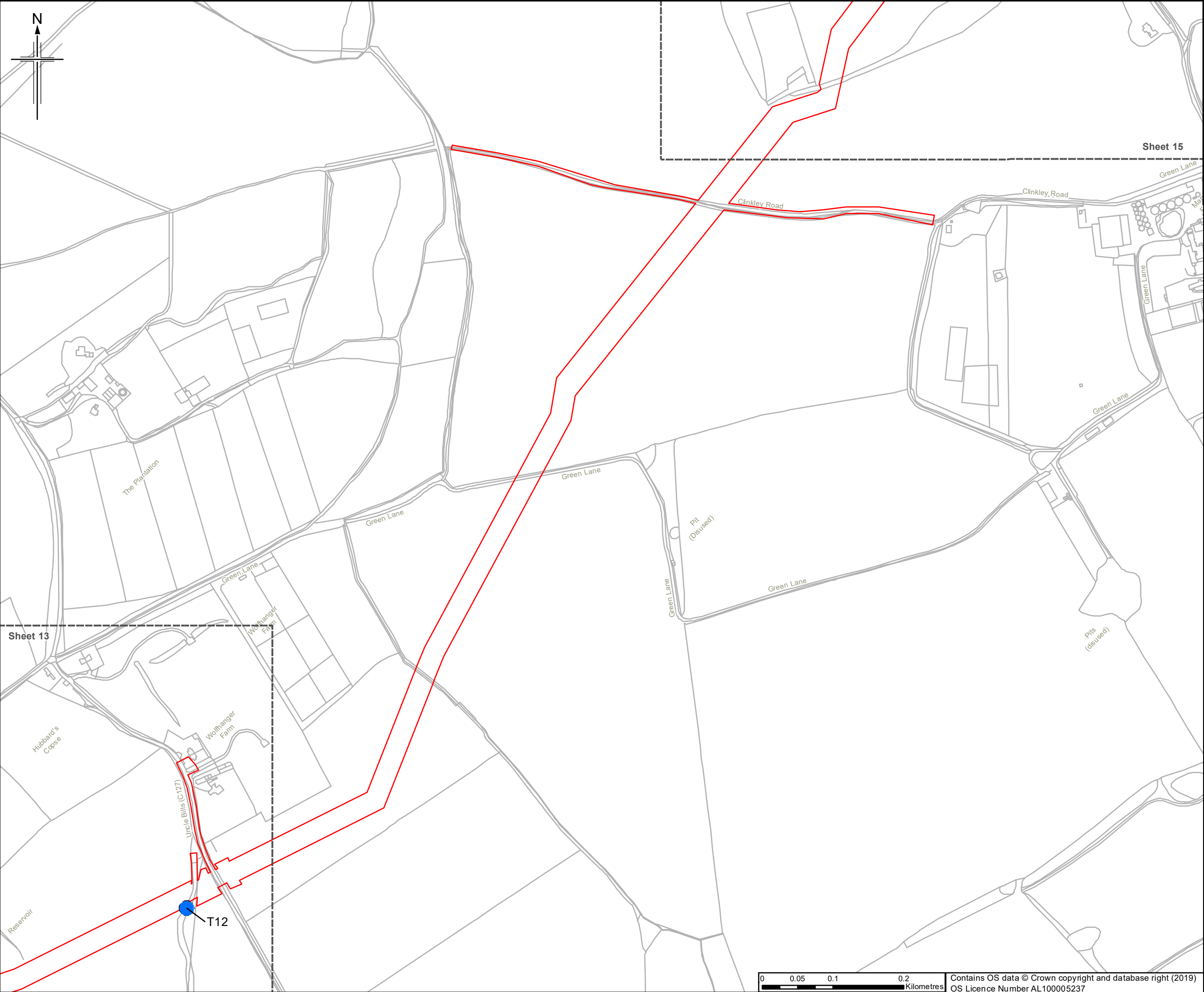
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ProjectWise No. **B2325300-JAC-000-ENV-DRG-111117**  
Drawing number **Figure LV.1.9.1 Sheet 13 of 62** Rev **0**

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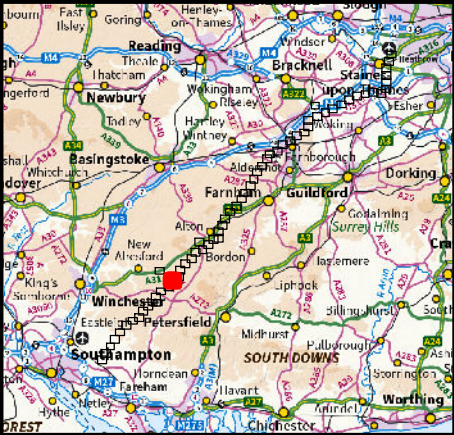
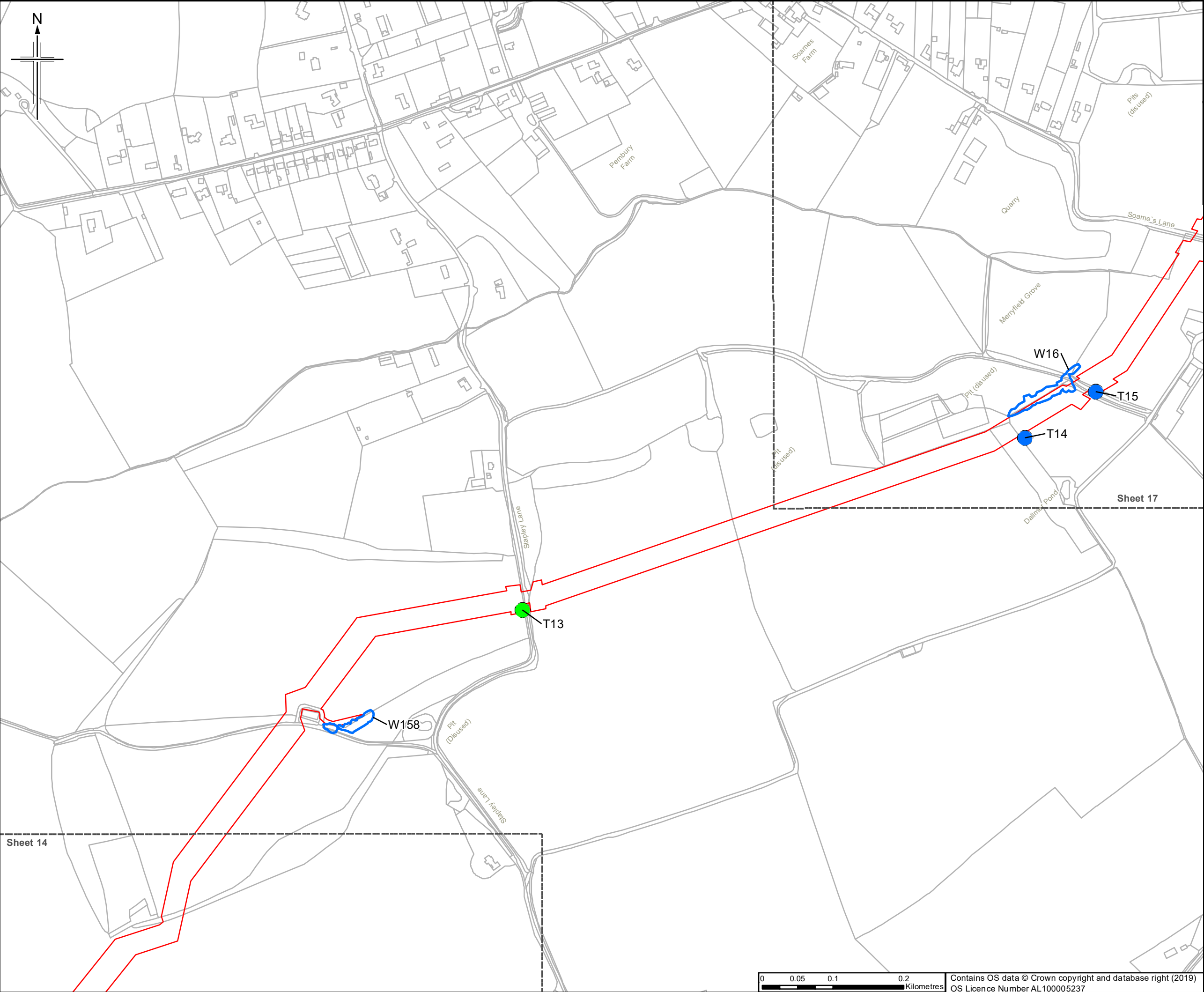
**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0		12/11/2019		For Issue		LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision				Orig/Dwn	Checkd	Rev'd	Apprv'd
Author									
<div> 1180 Epsom Road, Weybridge, Middlesex, TW20 2EX, UK Tel: +44(0)181 846 7000 Fax: +44(0)181 846 7001 www.jacobs.com</div>									
Client Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX									
Project <div> Southampton to London Pipeline Project</div>									
Drawing title  NOTABLE TREES PLAN									
Drawing Status For Issue									
Scale	1:5,000		@ A3		DO NOT SCALE				
Jacobs No.	B2325300								
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117								
Drawing number	Figure LV.1.9.1 Sheet 14 of 62								Rev 0
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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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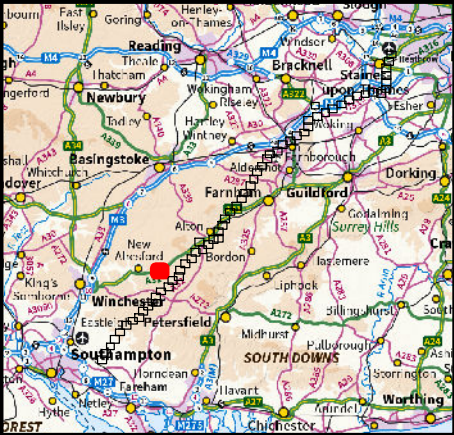
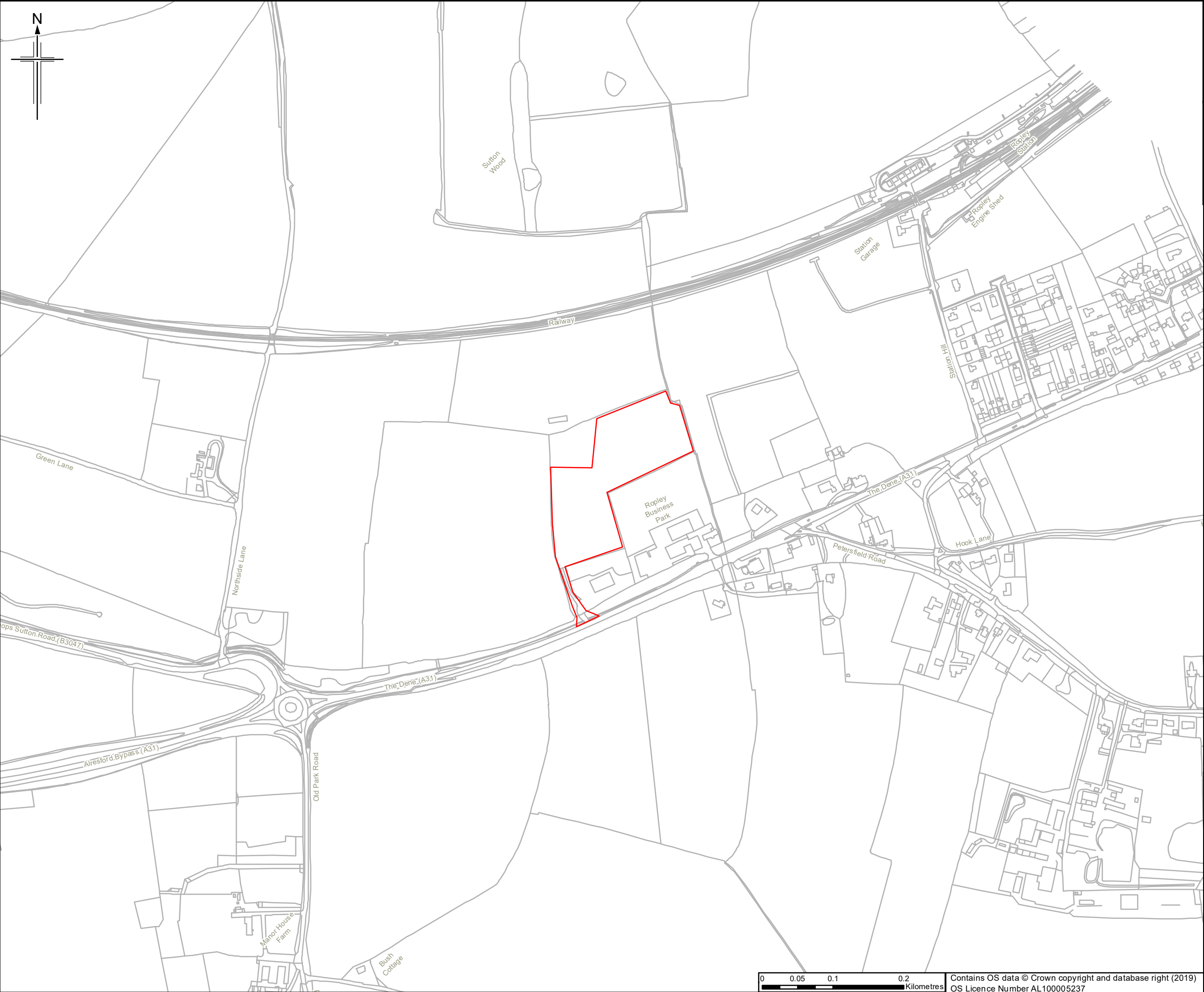
Client  
Esso Petroleum Company, Limited  
Ermy House,  
Ermy Way,  
Leatherhead,  
Surrey,  
KT22 8UX

Project  
 Southampton to London Pipeline Project

Drawing title  
NOTABLE TREES PLAN

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
Project/Revision No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 15 of 62
Rev	0

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**Legend**

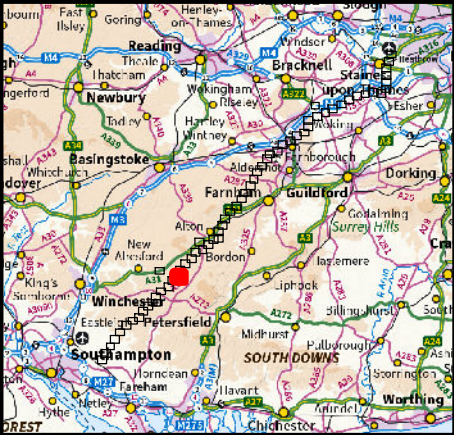
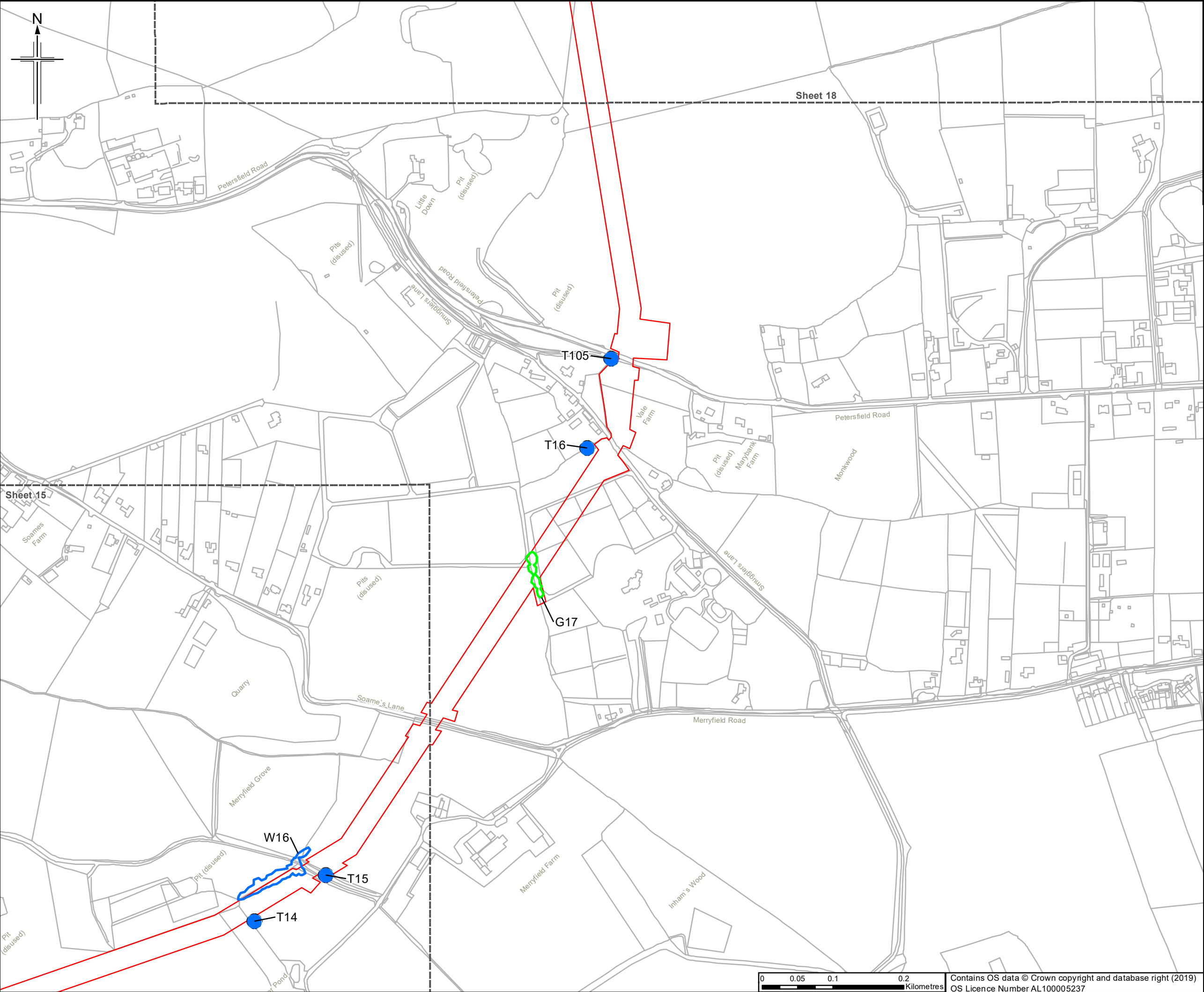
Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client Esso Petroleum Company, Limited Ermy House, Ermy Way, Leatherhead, Surrey, KT22 8UX						
Project  Southampton to London Pipeline Project						
Drawing title  NOTABLE TREES PLAN						
Drawing Status For Issue						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 16 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

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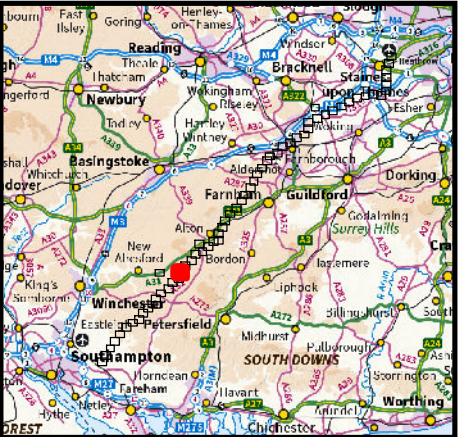
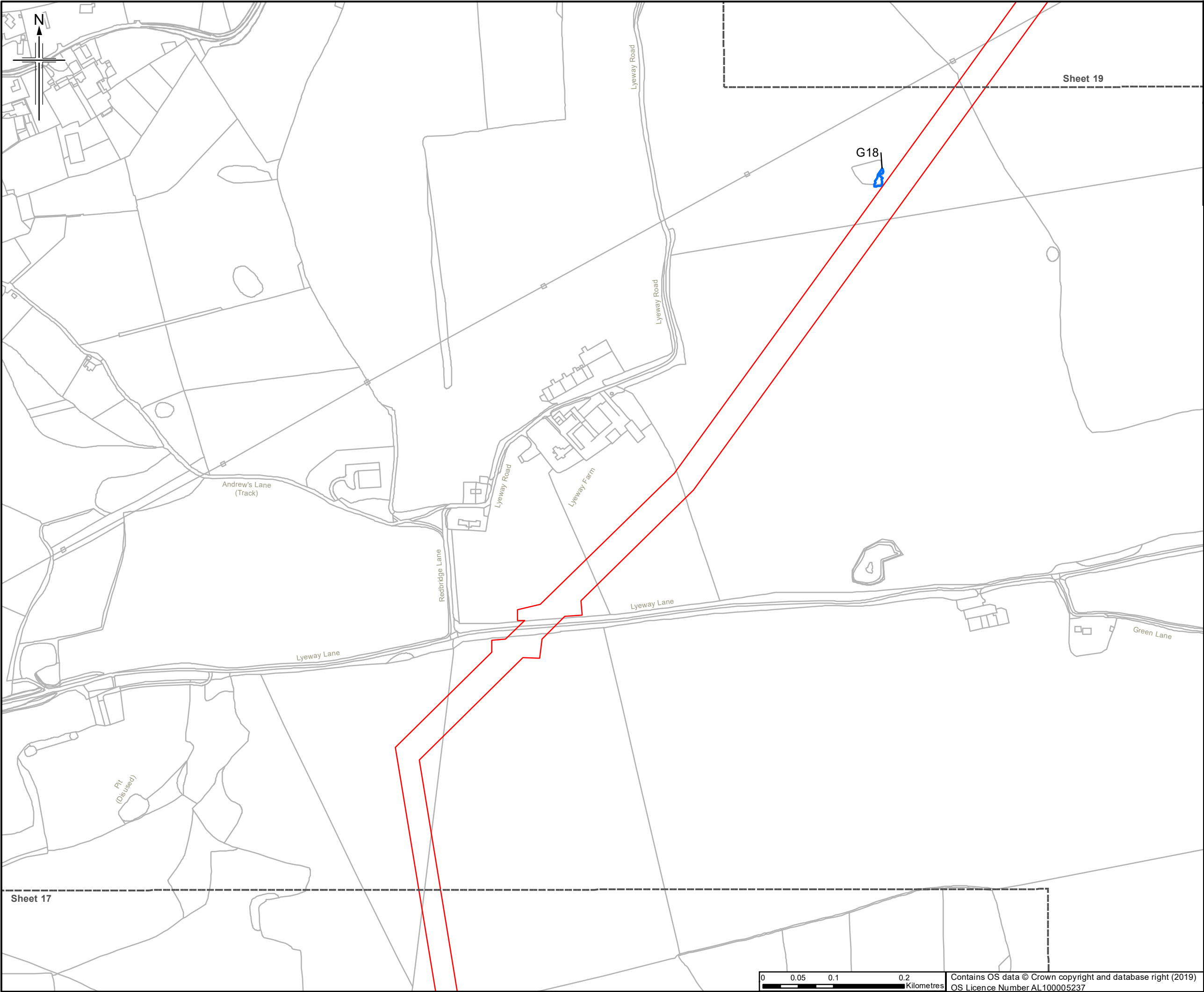
Client  
Esso Petroleum Company, Limited  
Ermy House,  
Ermy Way,  
Leatherhead,  
Surrey,  
KT22 8UX

Project  
 Southampton to London Pipeline Project

Drawing title  
NOTABLE TREES PLAN


Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 17 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

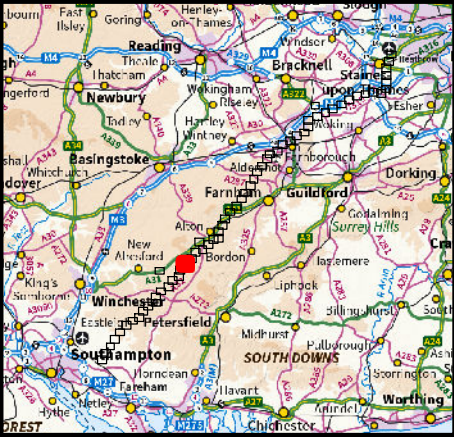
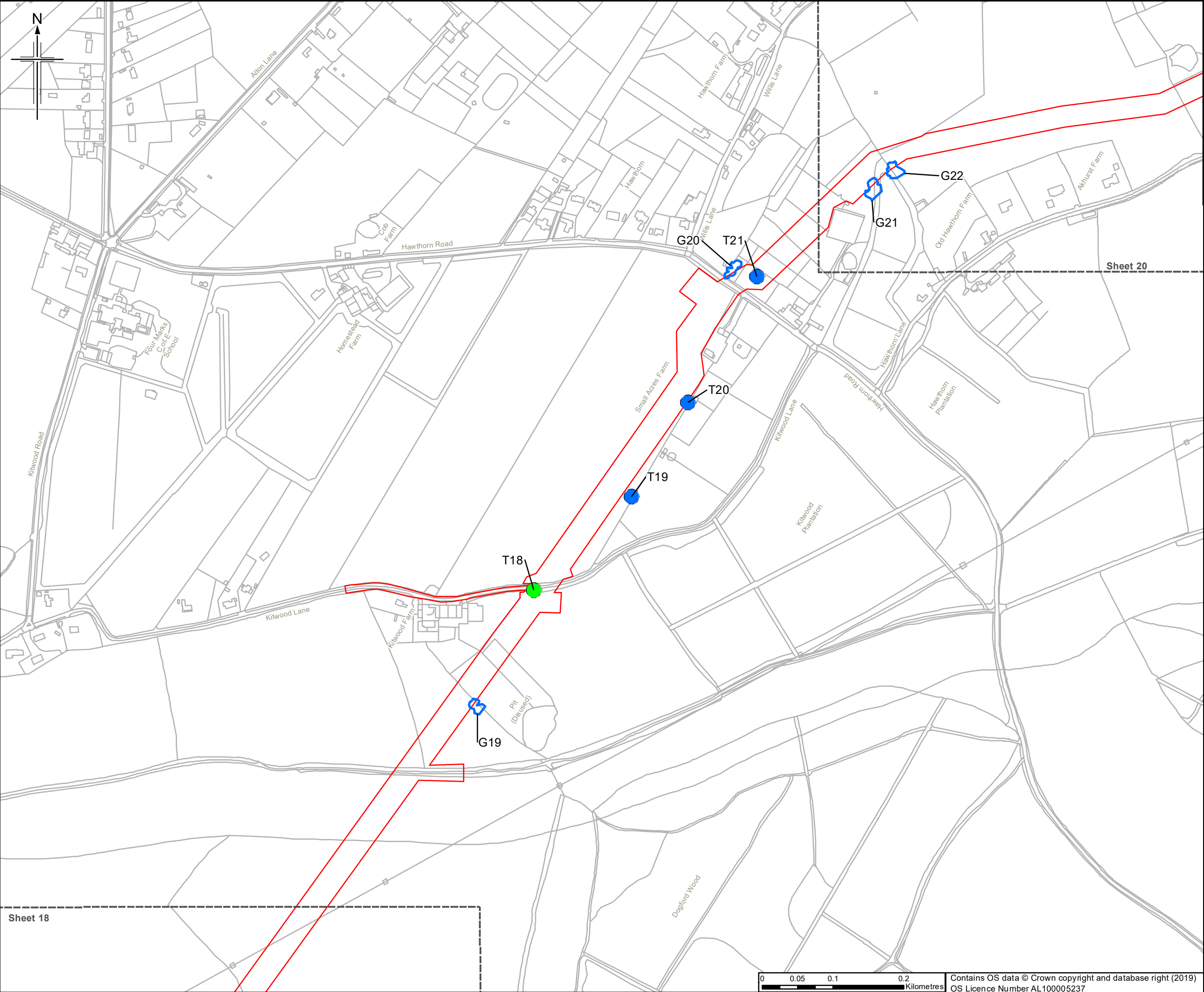
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Client Esso Petroleum Company, Limited Ermy House, Ermy Way, Leatherhead, Surrey, KT22 8UX						
Project  Southampton to London Pipeline Project						
Drawing title  NOTABLE TREES PLAN						
Drawing Status For Issue						
Scale	1:5,000	@ A3	DO NOT SCALE			
Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 18 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
    - groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Project

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Drawing title

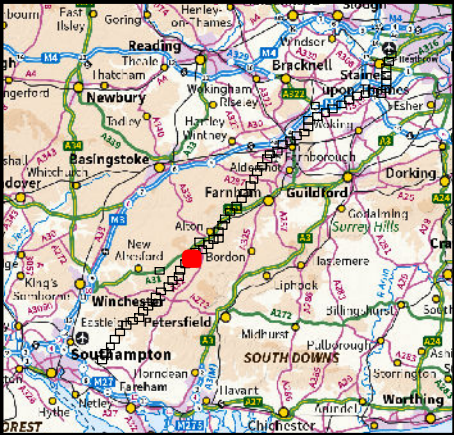
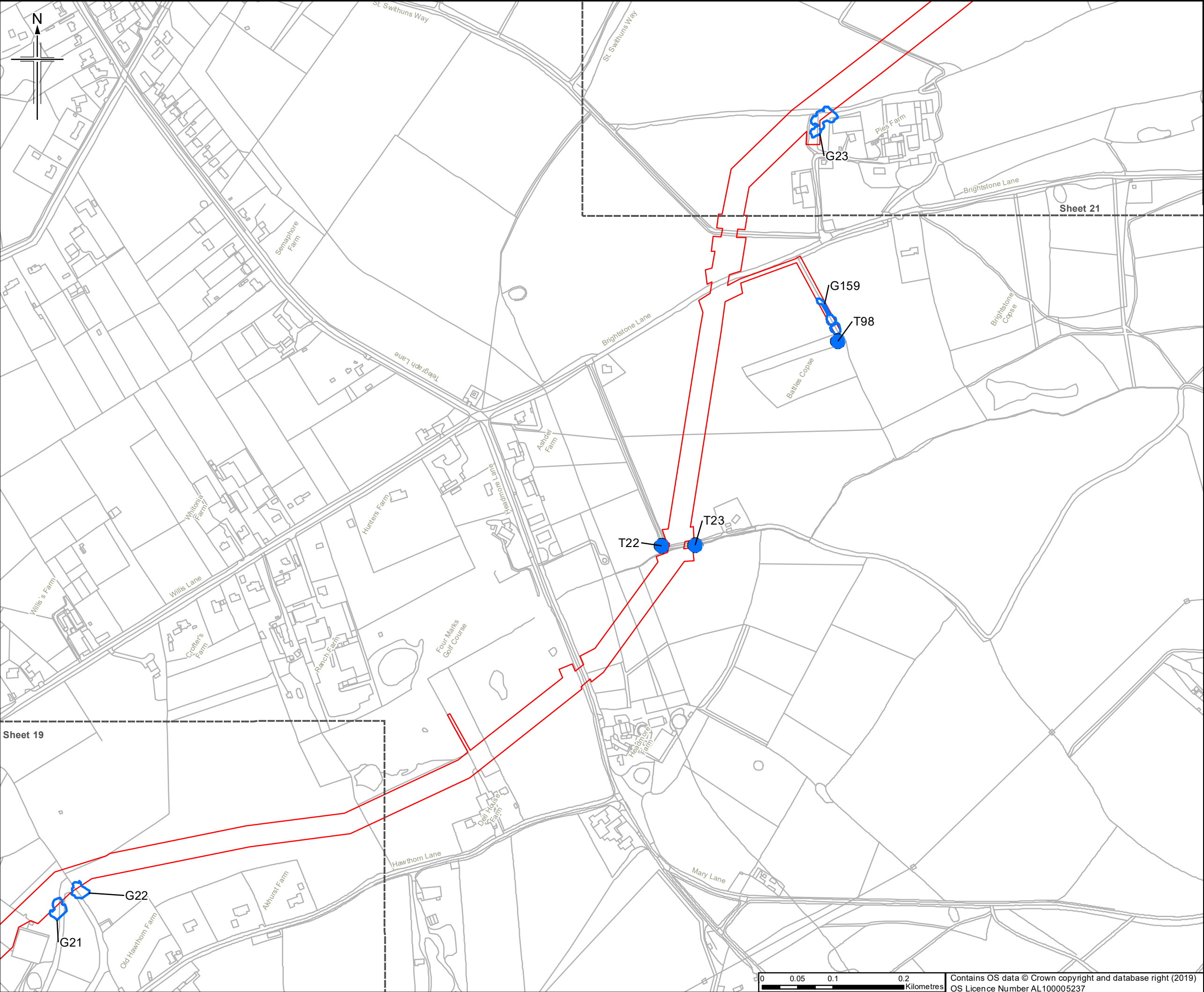
NOTABLE TREES PLAN

Drawing Status		For Issue	
Scale	1:5,000	@ A3	DO NOT SCALE
Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 19 of 62		Rev 0

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Sheet 18

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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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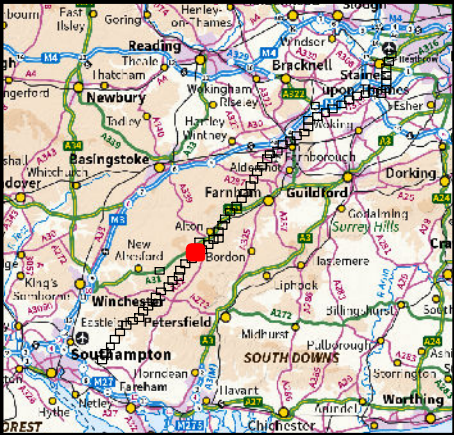
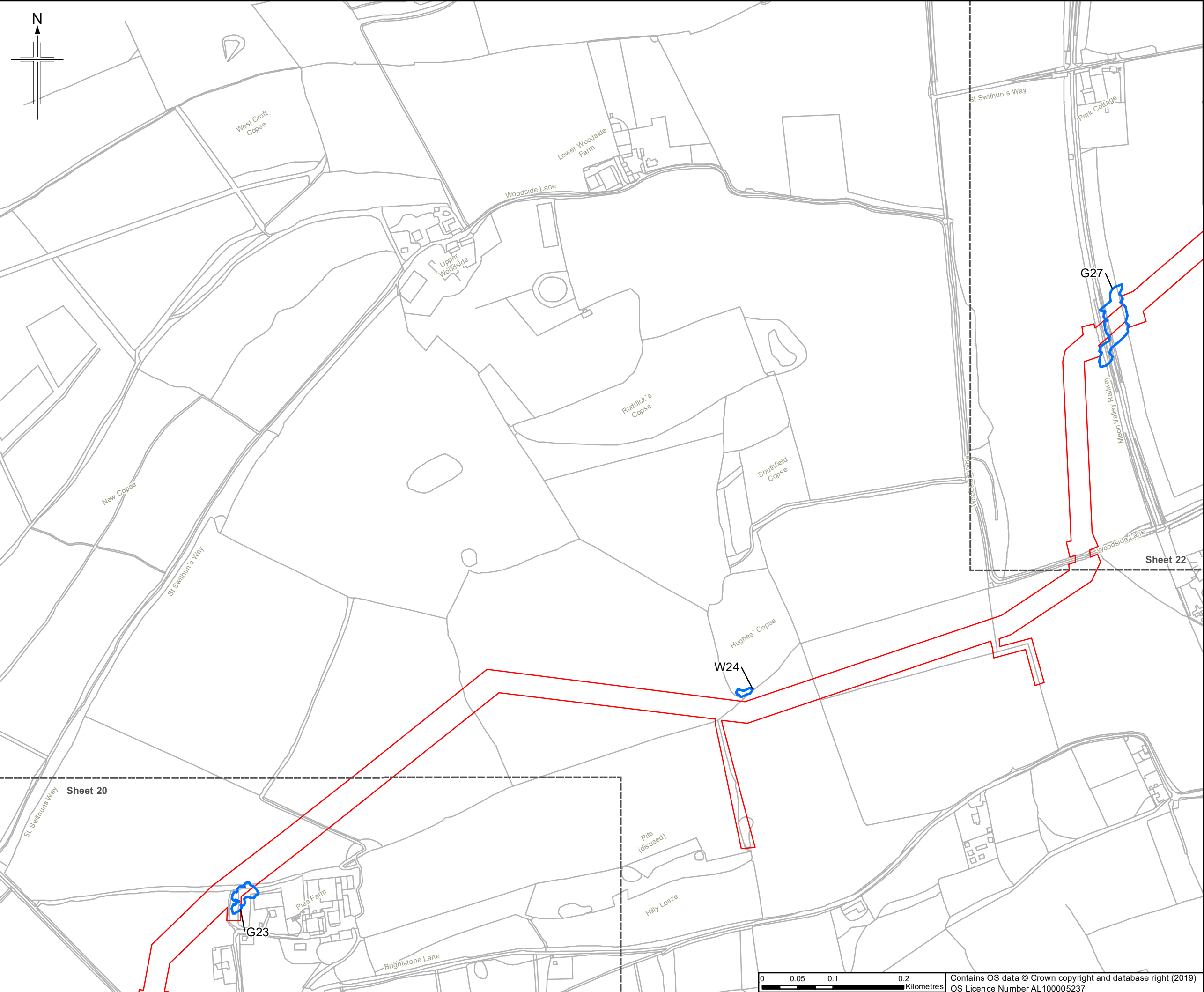
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
Scale	1:5,000 @ A3 DO NOT SCALE
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Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 20 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwnl	Checkd	Rev'd	Apprv'd
0	12/11/2019	For Issue	LM	DR/TC	LD	SN

Author  
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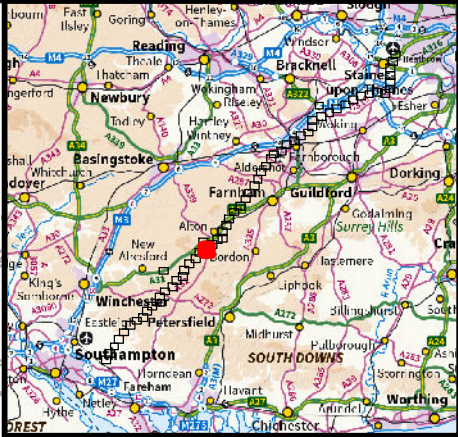
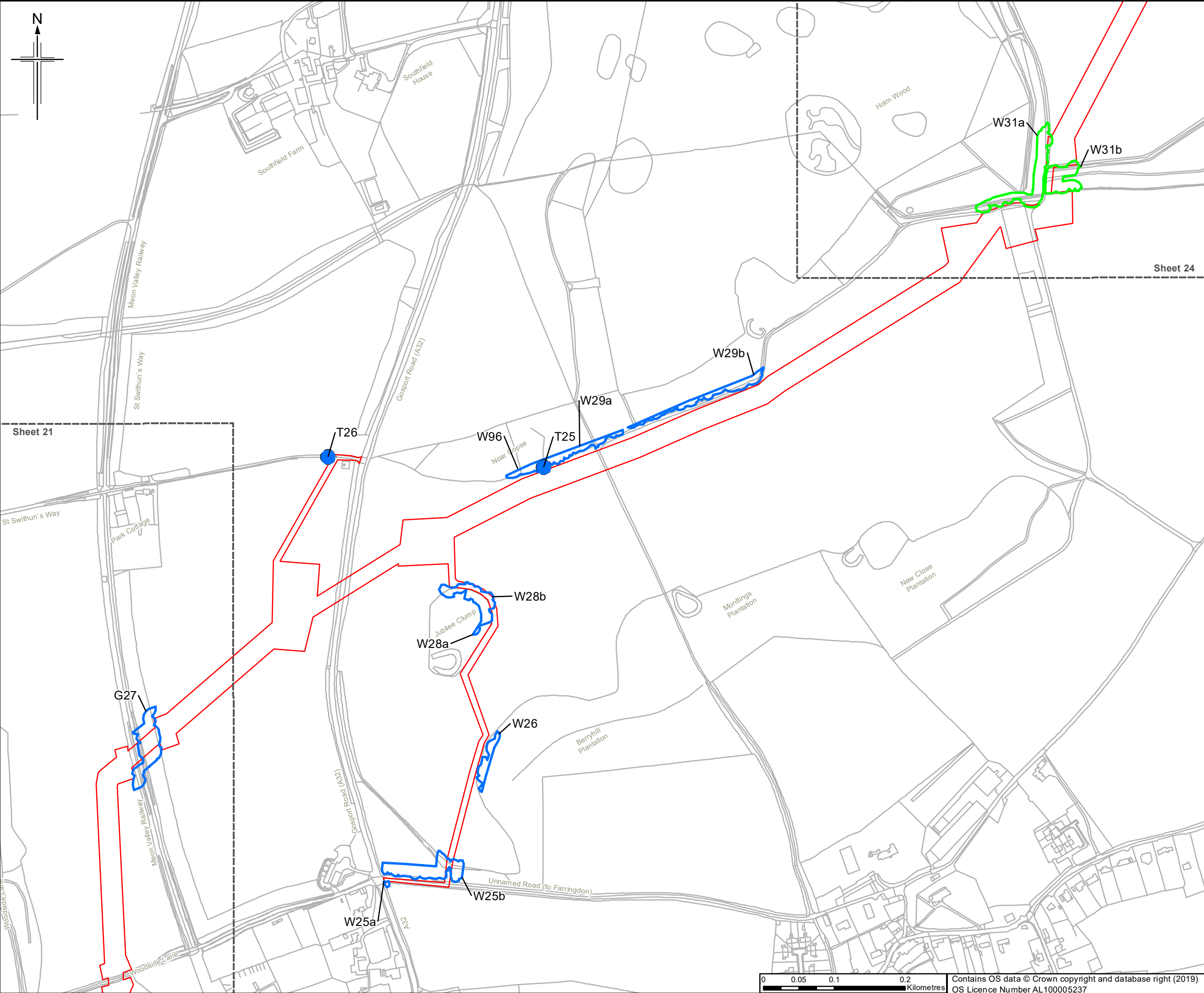
Client  
Esso Petroleum Company, Limited  
Ermy House,  
Ermy Way,  
Leatherhead,  
Surrey,  
KT22 8UX

Project  
**Esso** | Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

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Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 21 of 62		Rev 0

This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Appr'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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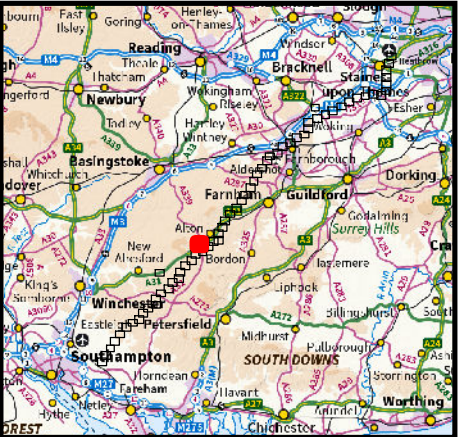
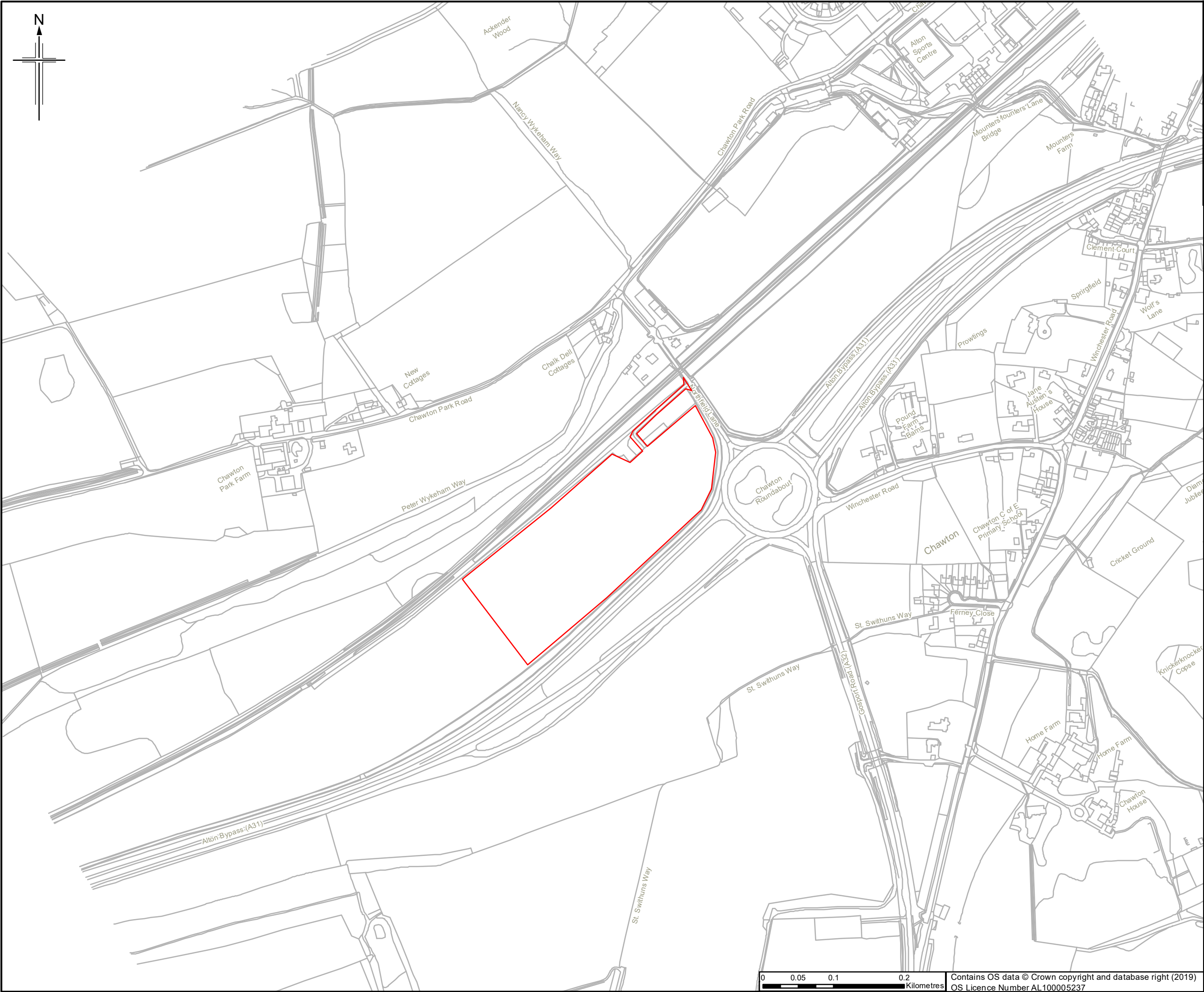
Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 22 of 62
Rev	0

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**Legend**

Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Client

Esso Petroleum Company, Limited  
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Ermy Way,  
Leatherhead,  
Surrey,  
KT22 8UX

Project

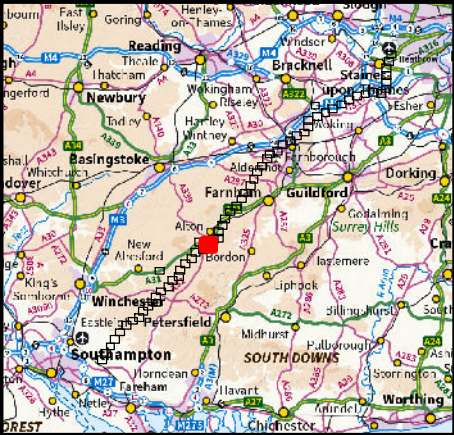
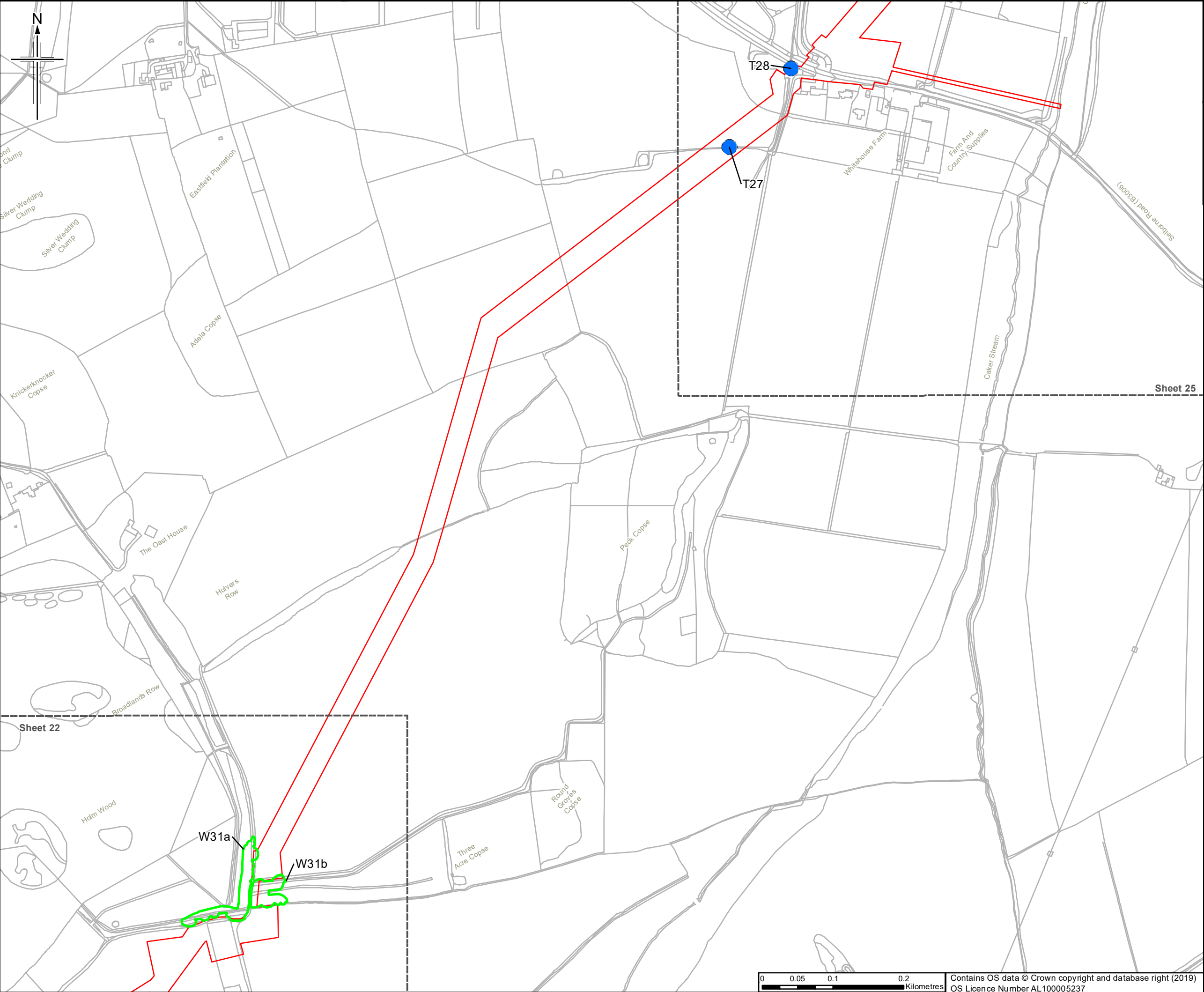
Southampton to London  
Pipeline Project

Drawing title

NOTABLE TREES PLAN

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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 23 of 62	Rev	0

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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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Project

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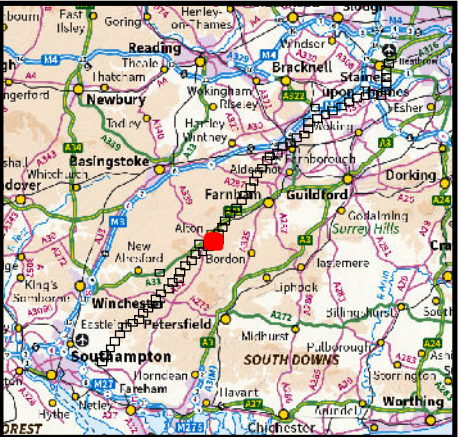
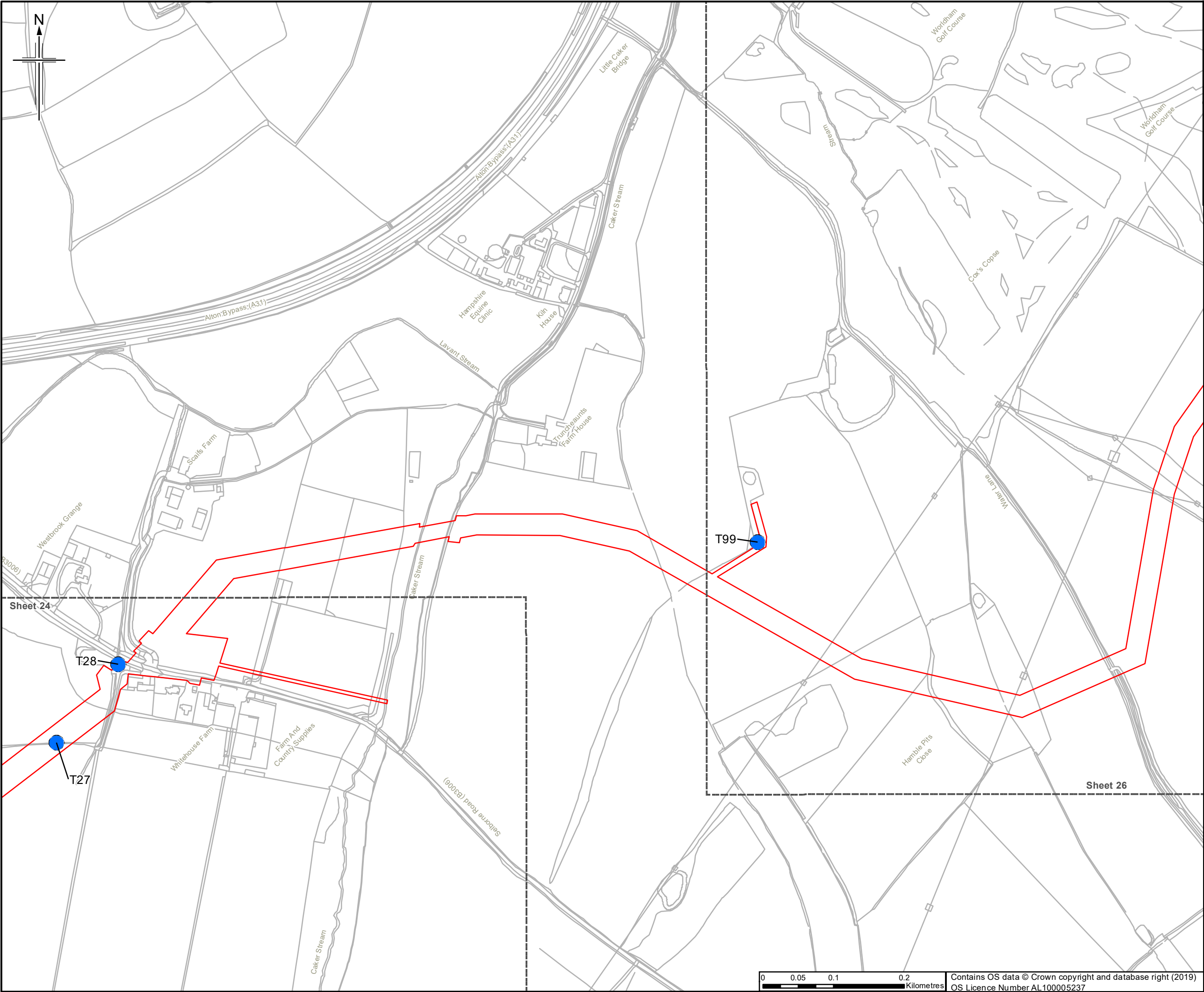
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NOTABLE TREES PLAN

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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 24 of 62
Rev	0

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**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Project

**Esso** Southampton to London Pipeline Project

Drawing title

NOTABLE TREES PLAN

Drawing Status

For issue

Scale

1:5,000 @ A3 DO NOT SCALE

Jacobs No.

B2325300

Project/Wise No.

B2325300-JAC-000-ENV-DRG-111117

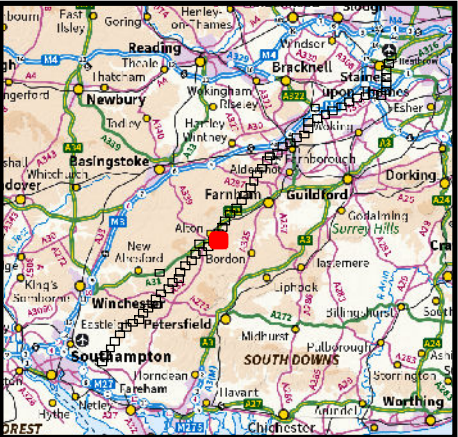
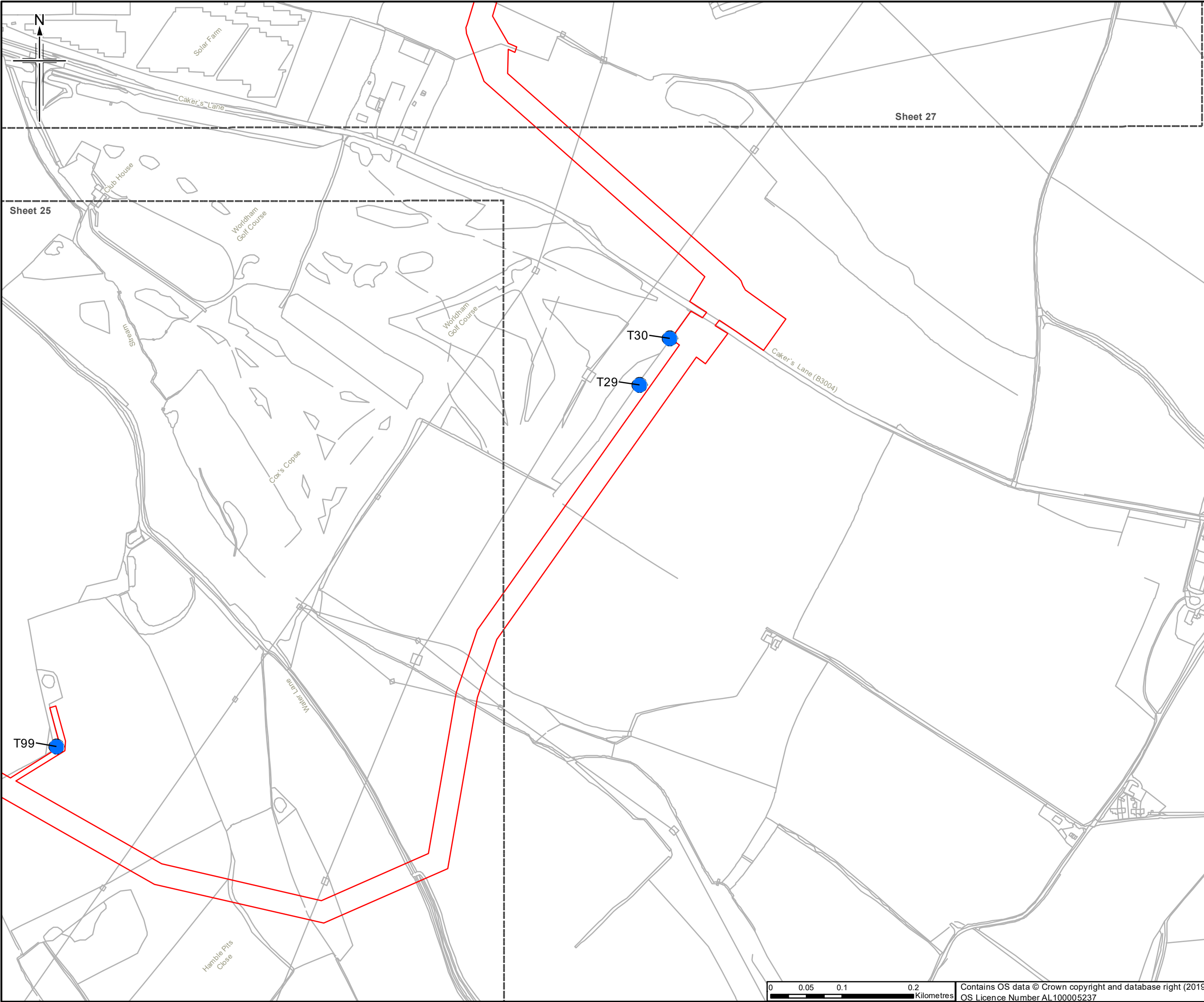
Drawing number

Figure LV.1.9.1 Sheet 25 of 62

Rev


0

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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)

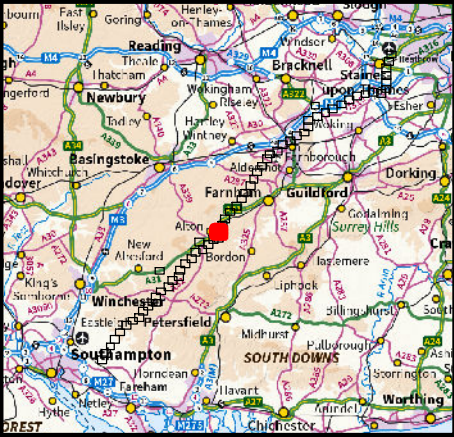
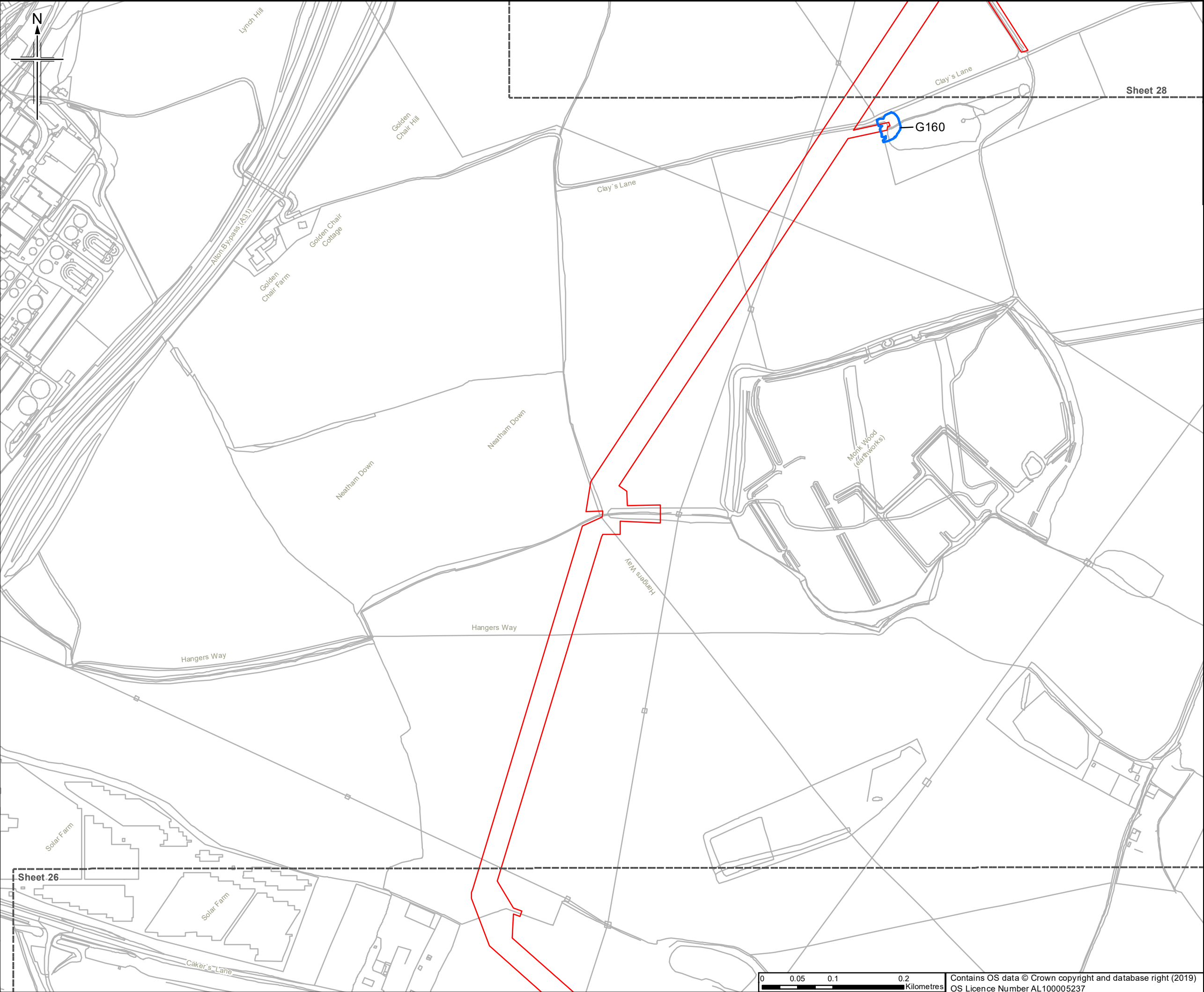
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
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Client						
Esso Petroleum Company, Limited Ermyon House, Ermyon Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div> Southampton to London Pipeline Project</div>						
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For Issue						
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Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 26 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

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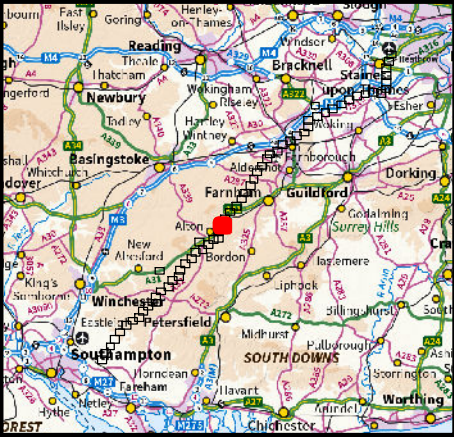
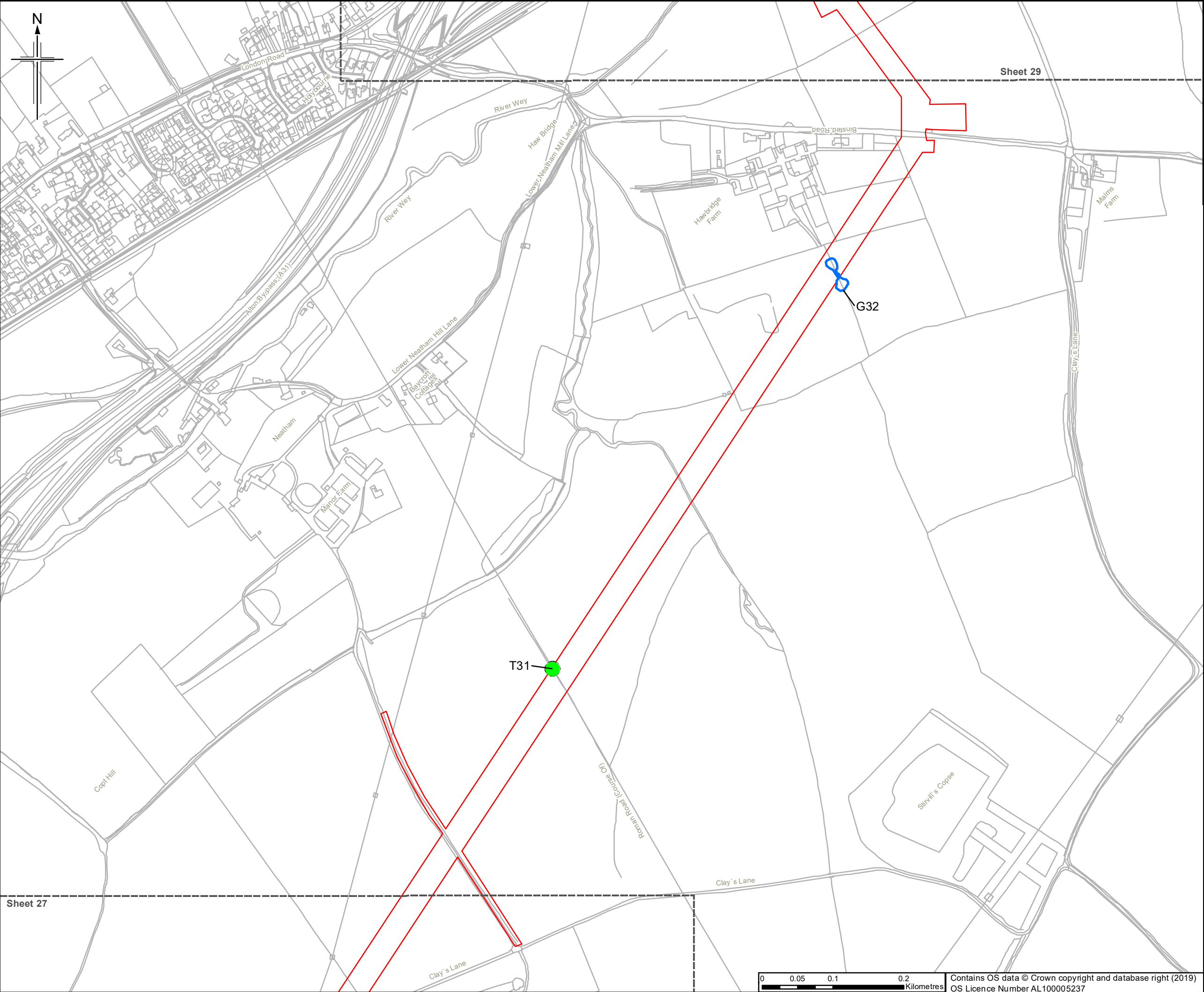
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

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Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 27 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd

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Surrey,  
KT22 8UX

Project

 Southampton to London Pipeline Project

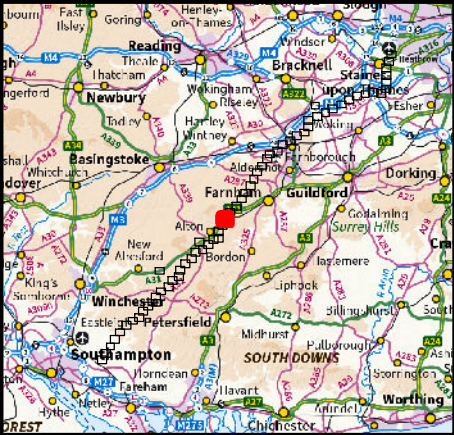
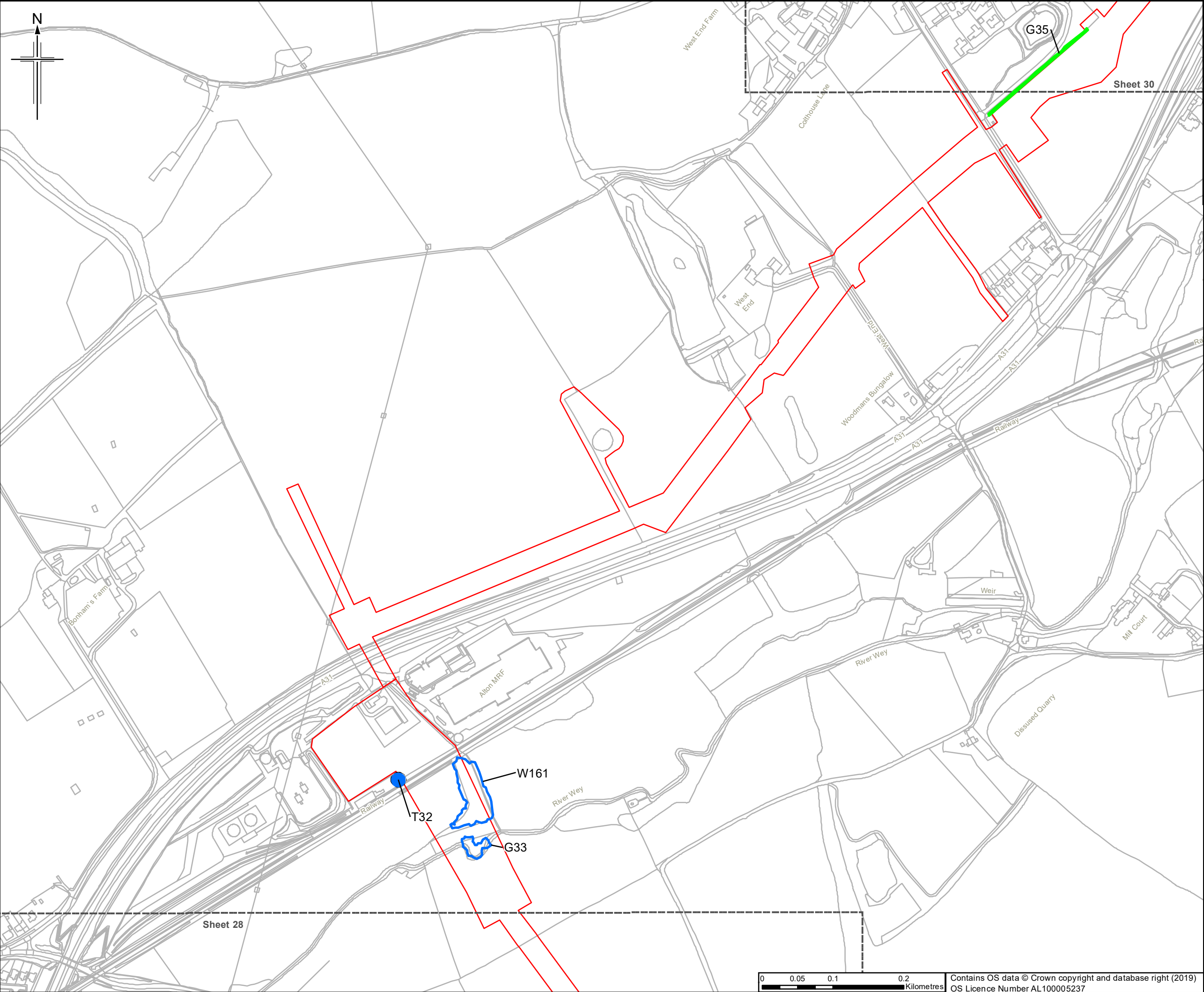
Drawing title

NOTABLE TREES PLAN

Drawing Status	For Issue		
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Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 28 of 62		Rev 0


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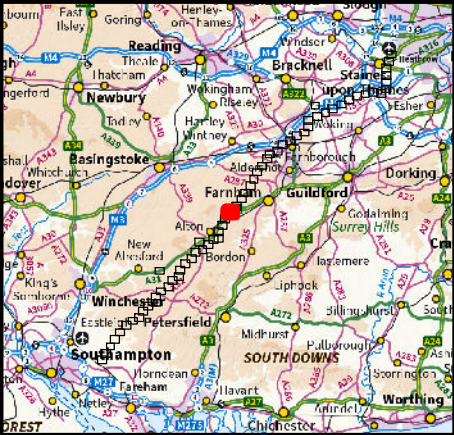
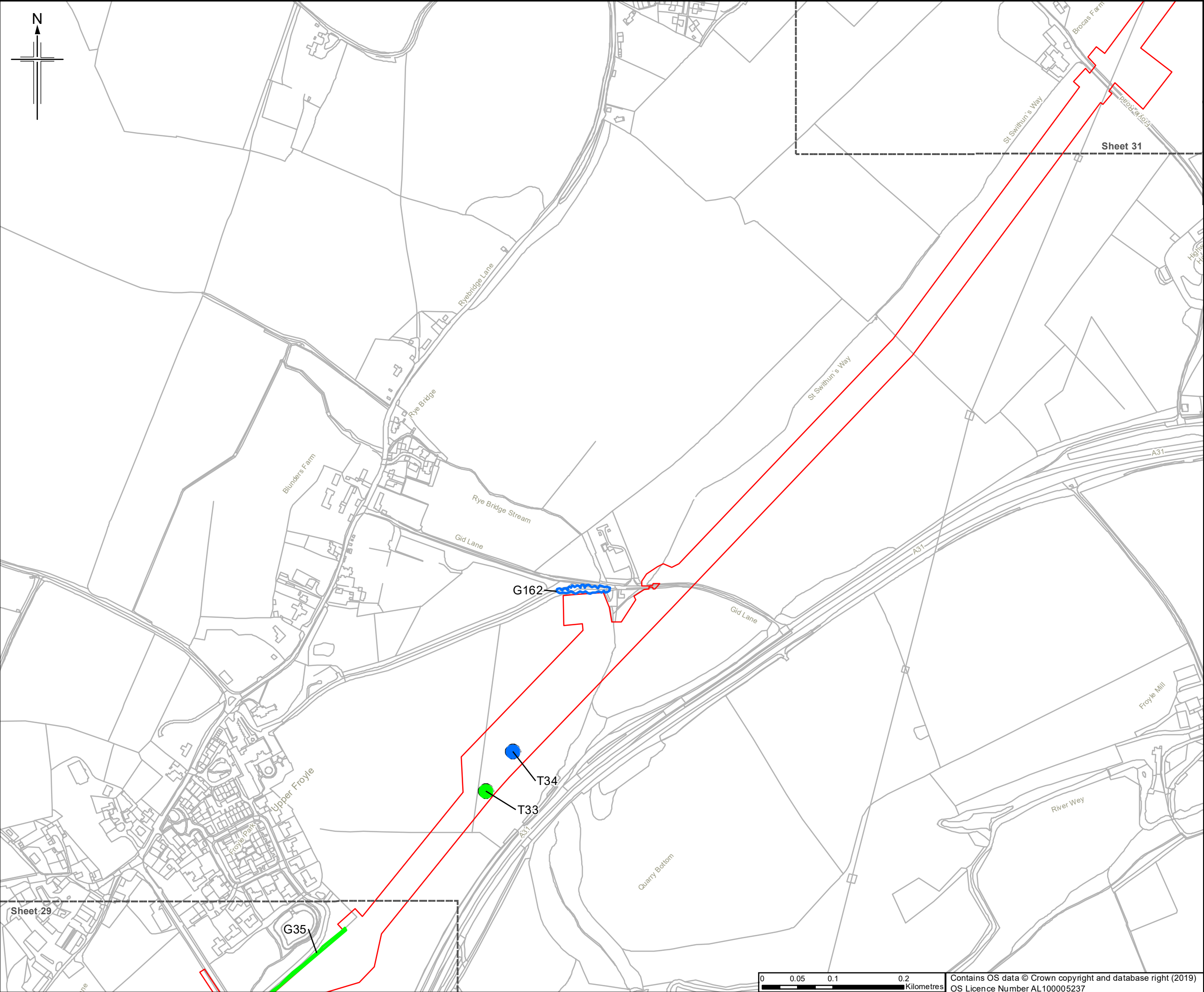
- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Esso Petroleum Company, Limited Ermyon House, Ermyon Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div><div></div><div>Southampton to London Pipeline Project</div></div>						
Drawing title						
NOTABLE TREES PLAN						
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Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 29 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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0	12/11/2019	For issue	LM	DR/TC	LD	SN

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Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status  
Scale  
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Drawing number

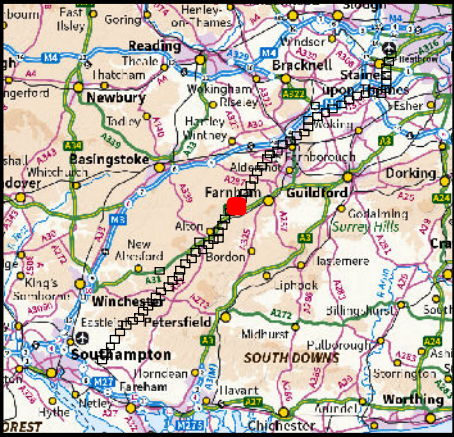
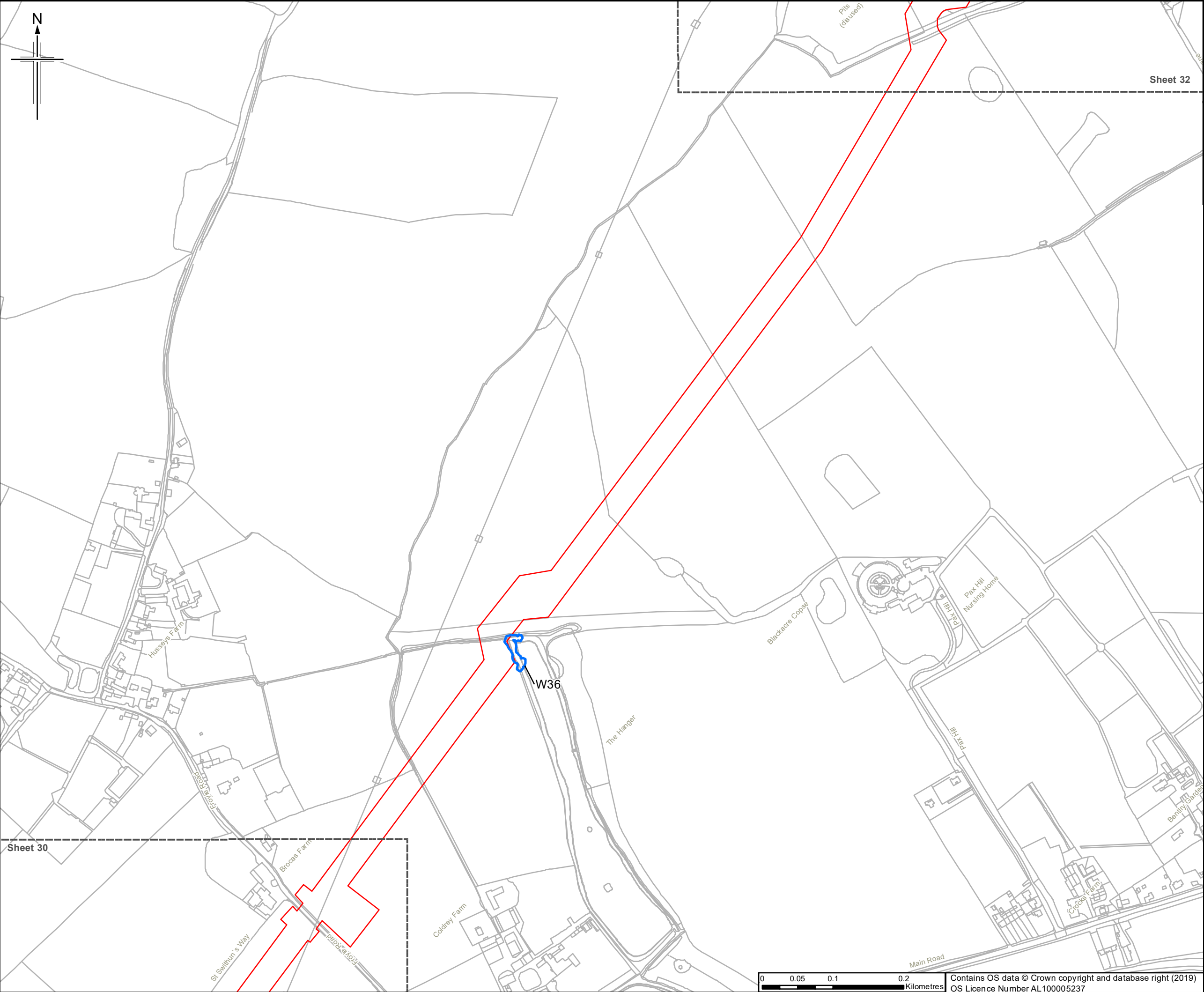
For issue  
1:5,000 @ A3 DO NOT SCALE  
B2325300  
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Figure LV.1.9.1 Sheet 30 of 62

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**Legend**

- Order Limits
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Client  
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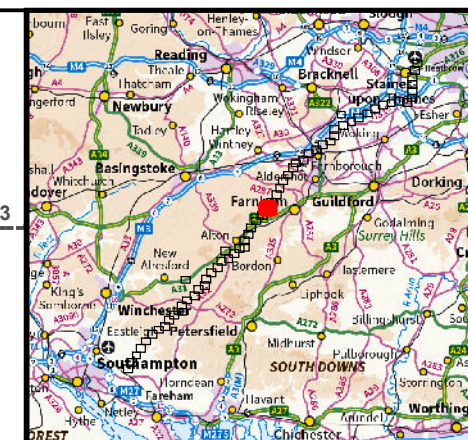
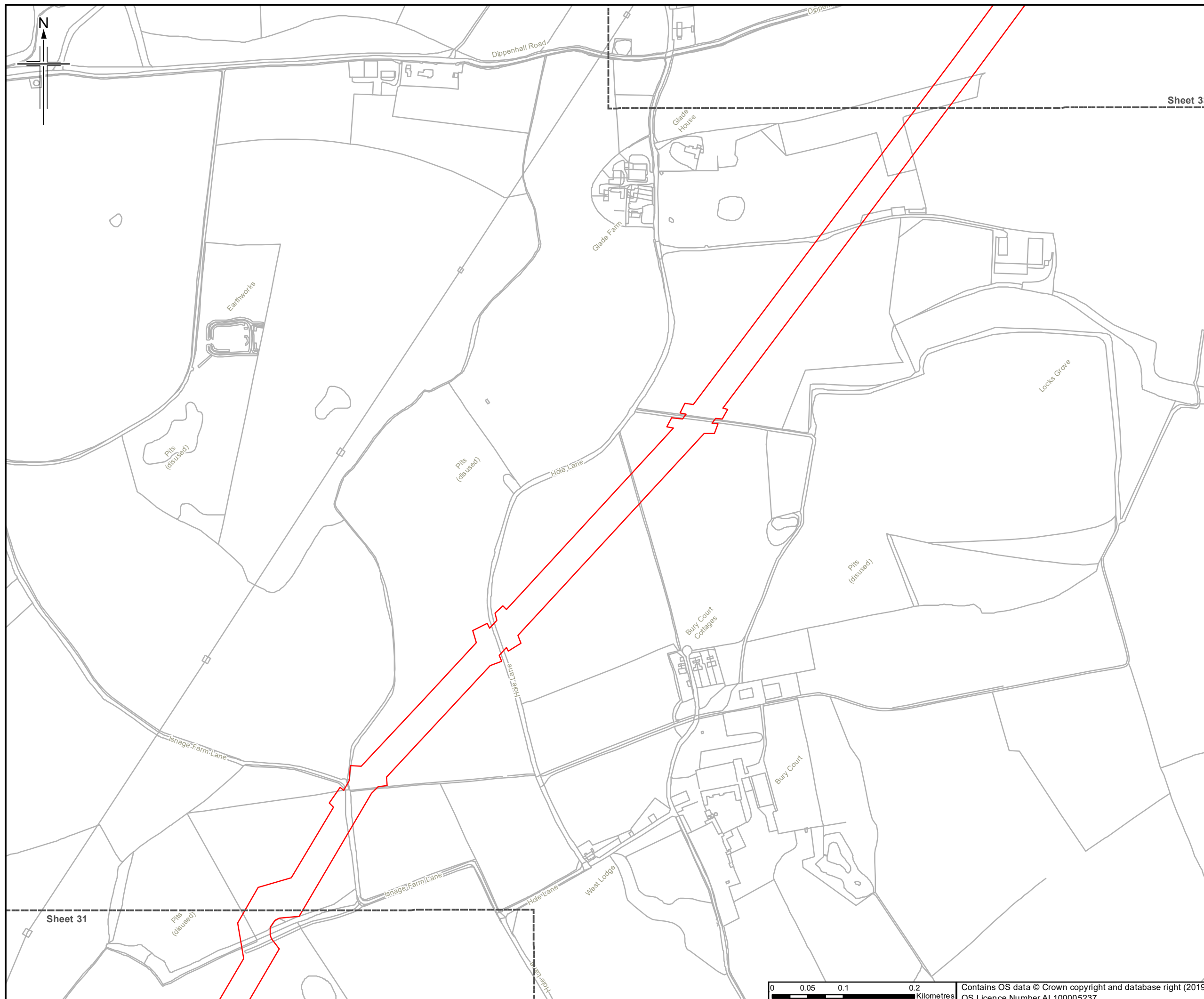
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Drawing title  
**NOTABLE TREES PLAN**

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Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 31 of 62	Rev	0

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### Legend

☐ Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv

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Project  Southampton to London Pipeline Project

Drawing title

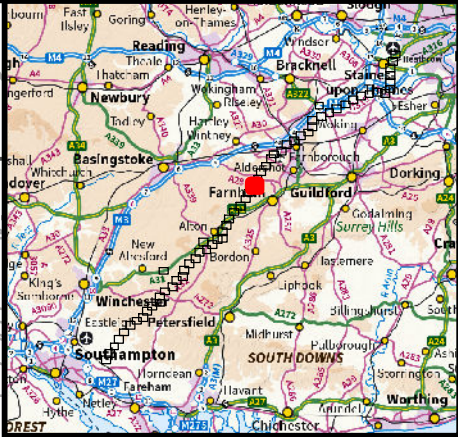
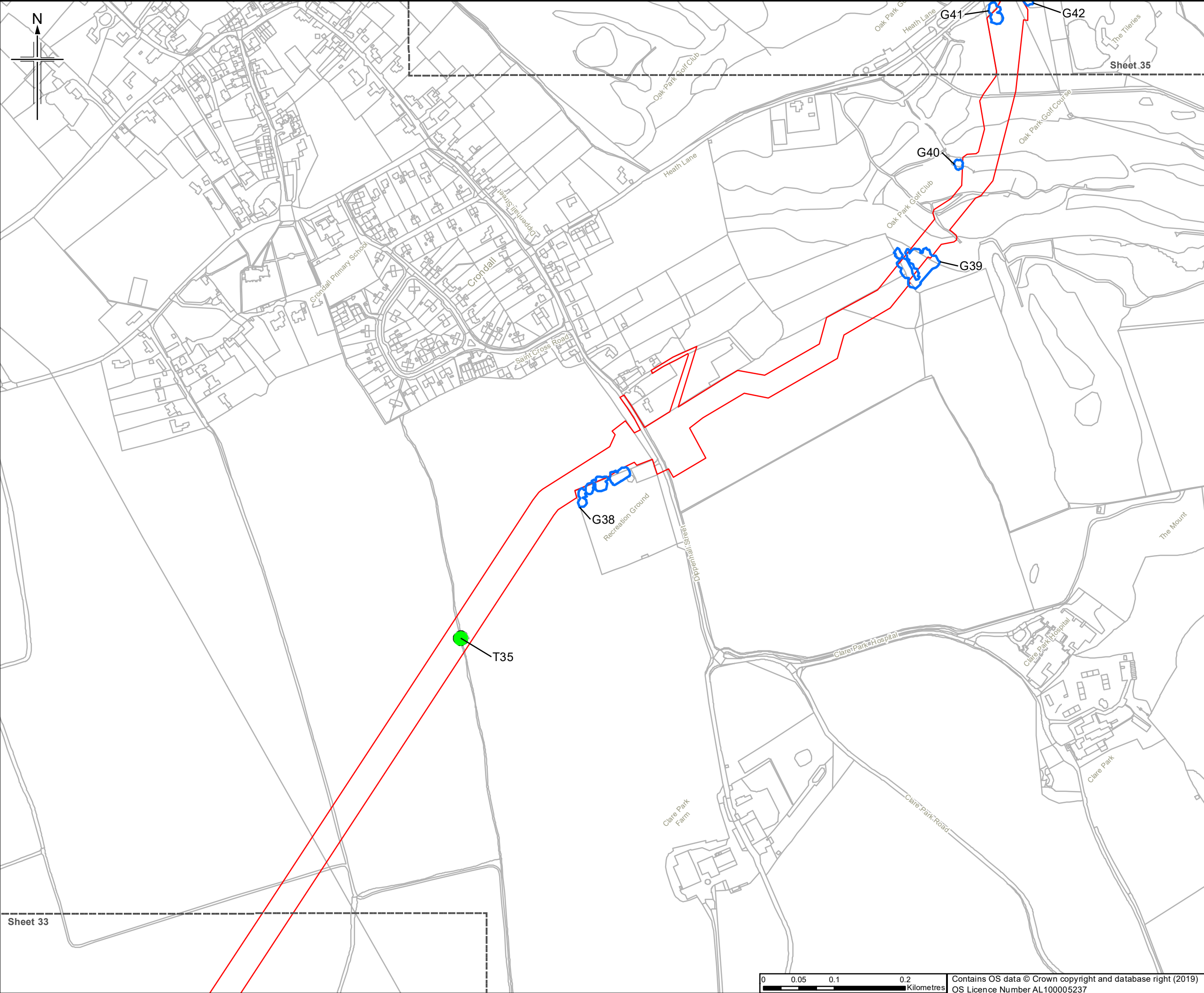
NOTABLE TREES PLAN

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Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 32 of 62		Rev 0

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**Legend**

- Order Limits
- Notable category A individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Project  
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Drawing title  
**NOTABLE TREES PLAN**

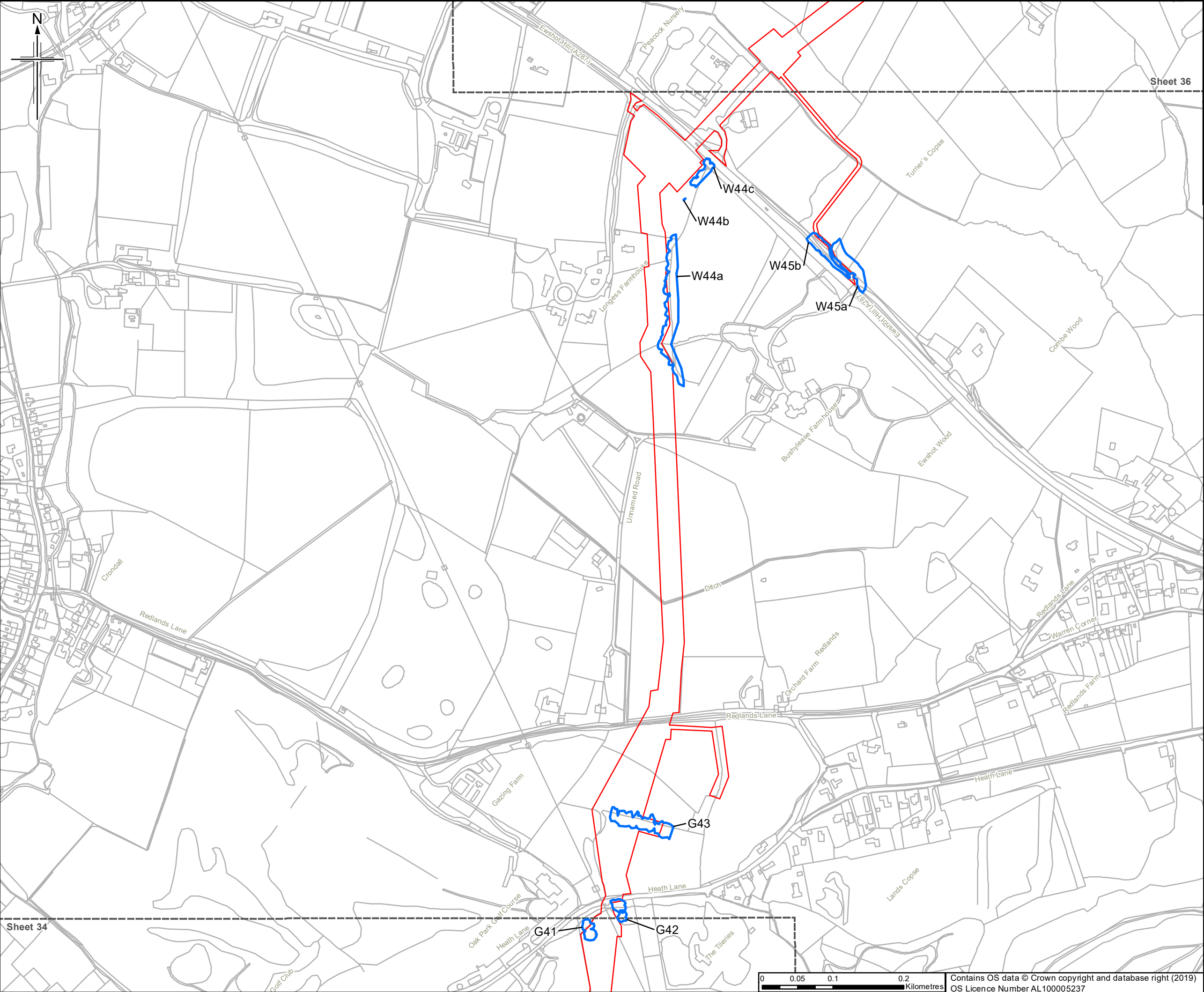
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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 34 of 62
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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Surrey,  
KT22 8UX

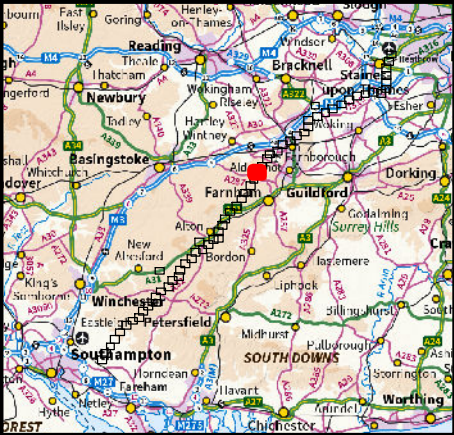
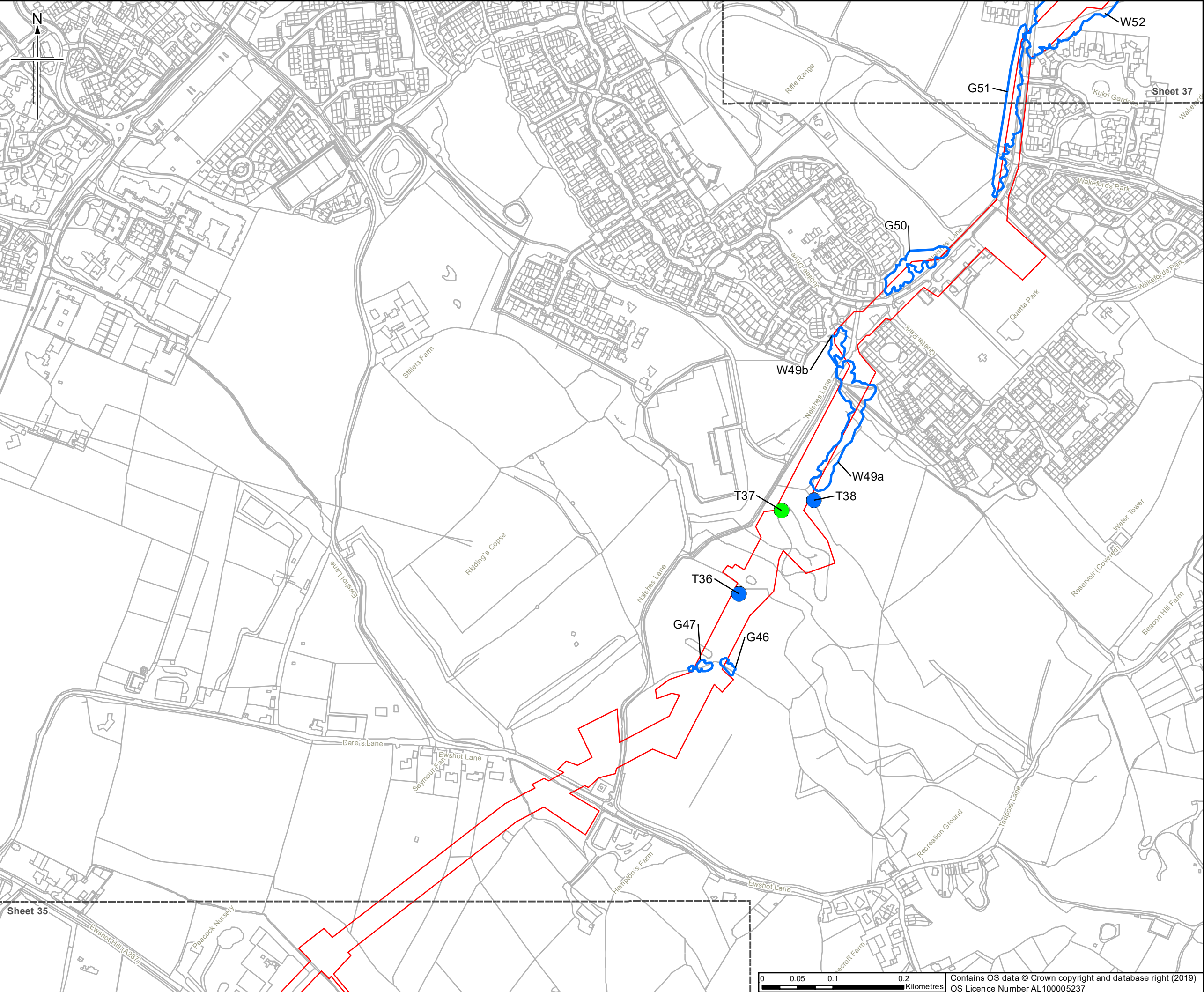
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 35 of 62
Rev	0


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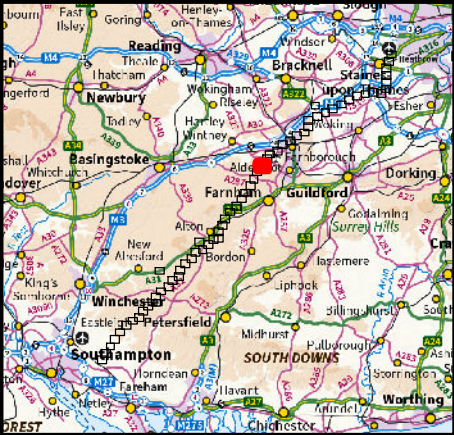
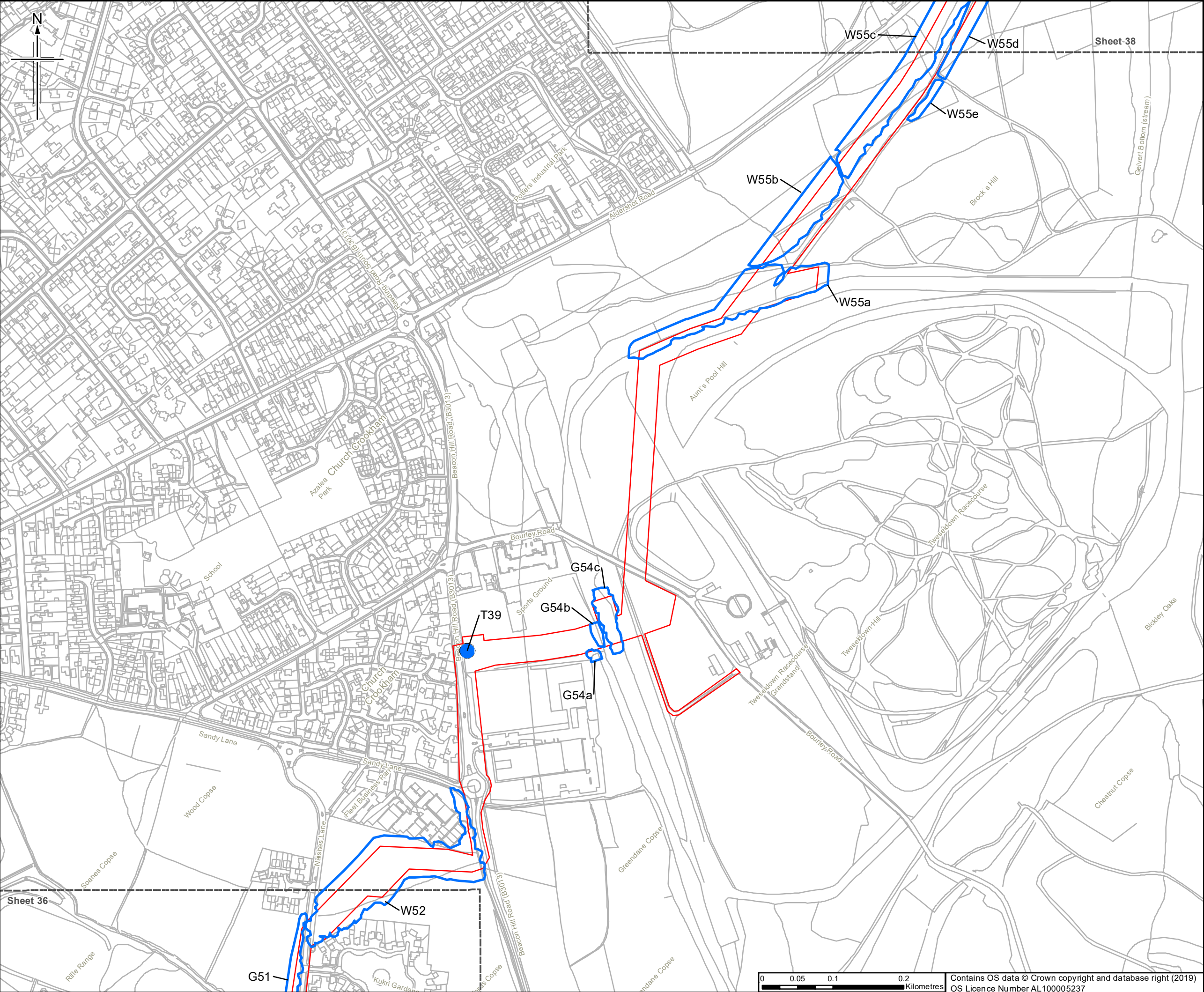


- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
    - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client						
Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div> Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
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Scale	1:5,000		@ A3		DO NOT SCALE	
Jacobs No.	B2325300					
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Drawing number	Figure LV.1.9.1 Sheet 36 of 62					Rev 0
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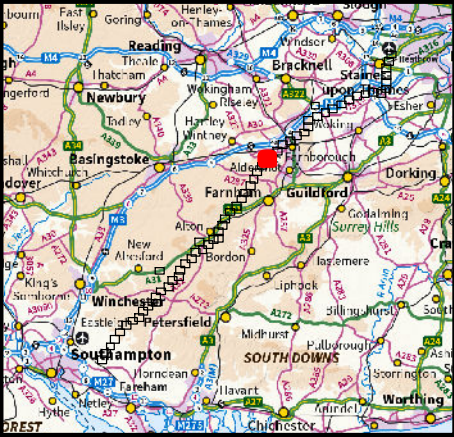
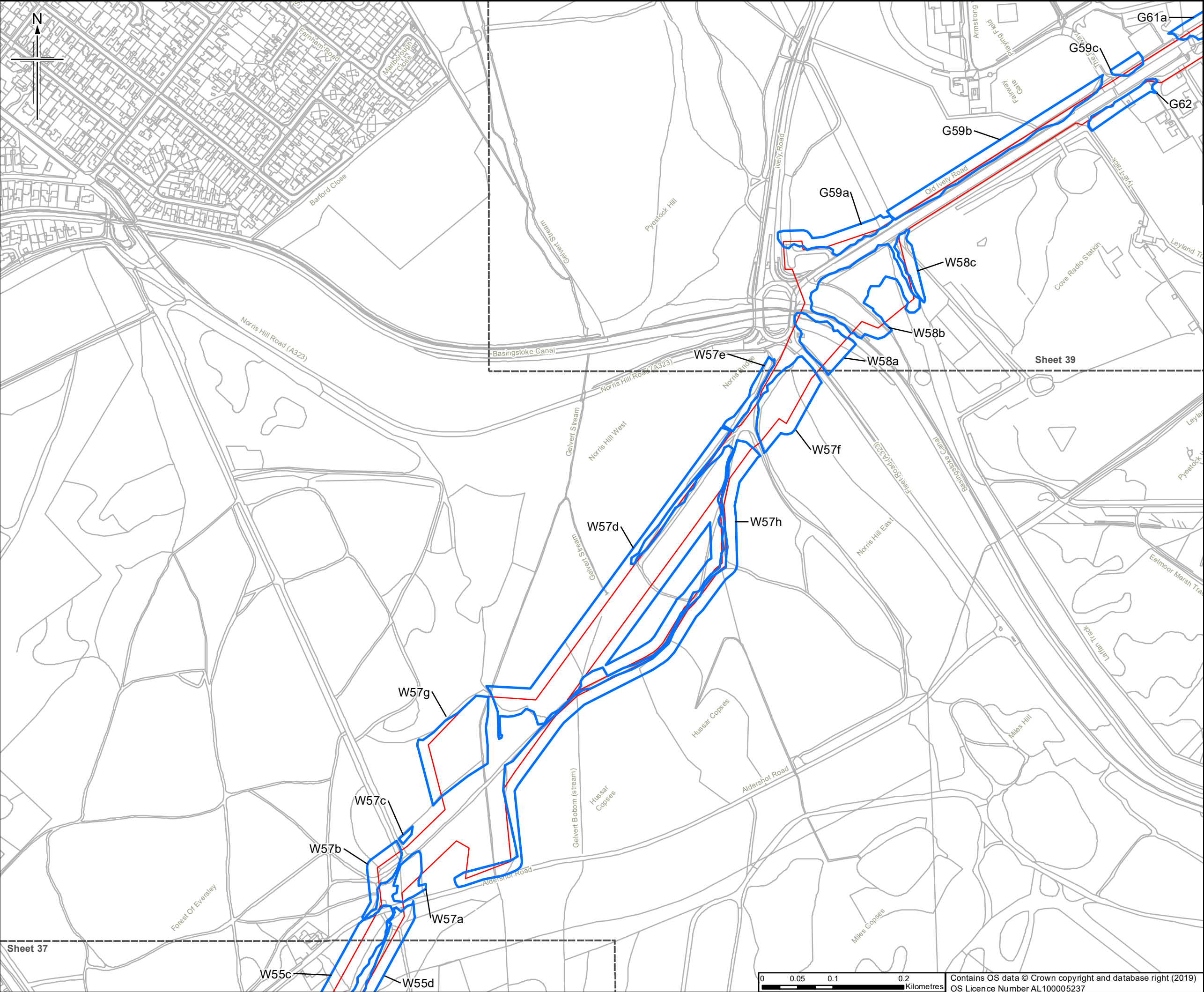
**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.


0	12/11/2019	For issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Appr'd
Author						
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Client Esso Petroleum Company, Limited Ermy House, Ermy Way, Leatherhead, Surrey, KT22 8UX						
Project <b>Esso</b>   Southampton to London Pipeline Project						
Drawing title <b>NOTABLE TREES PLAN</b>						
Drawing Status For issue						
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Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 37 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B tree
  - groups/woodlands (British Standard 5837: 2012)

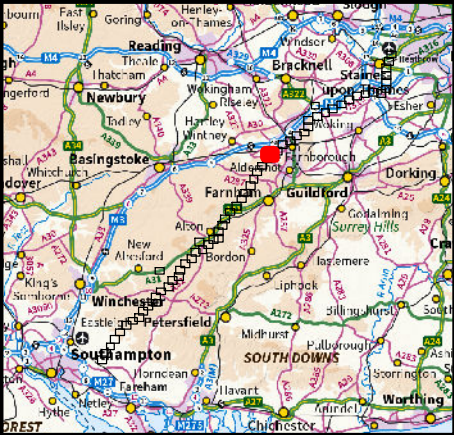
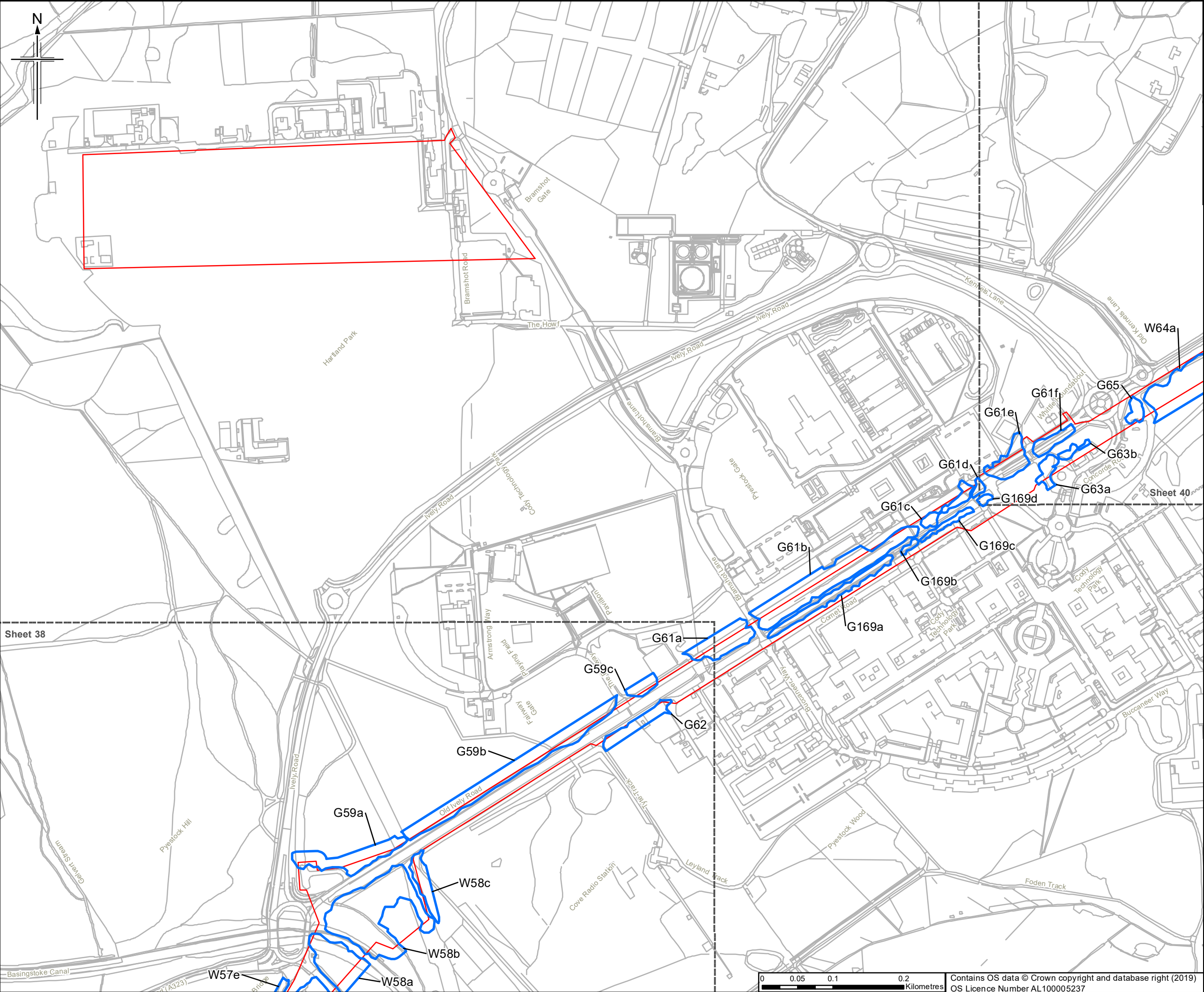
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Client						
Esso Petroleum Company, Limited Ermyon House, Ermyon Way, Leatherhead, Surrey, KT22 8UX						
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NOTABLE TREES PLAN						
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Jacobs No.	B2325300					
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 38 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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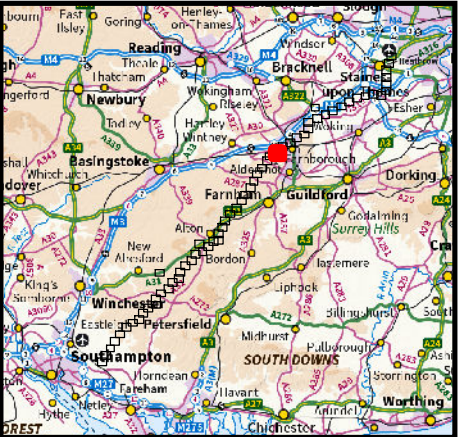
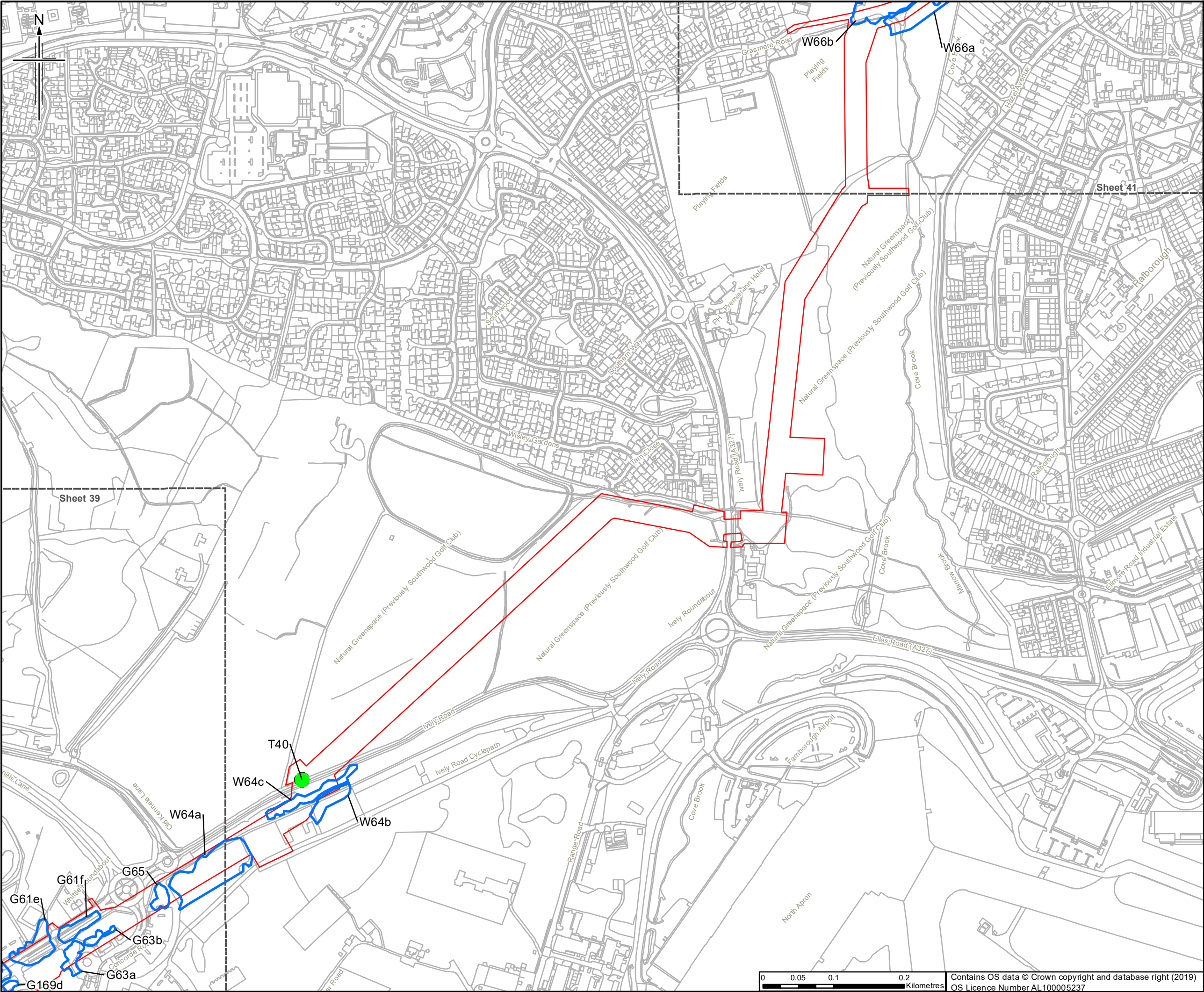
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 39 of 62
Rev	0

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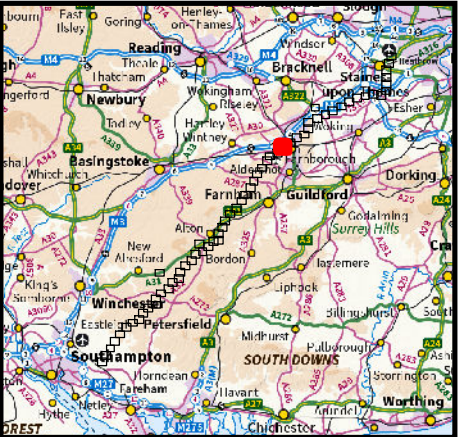
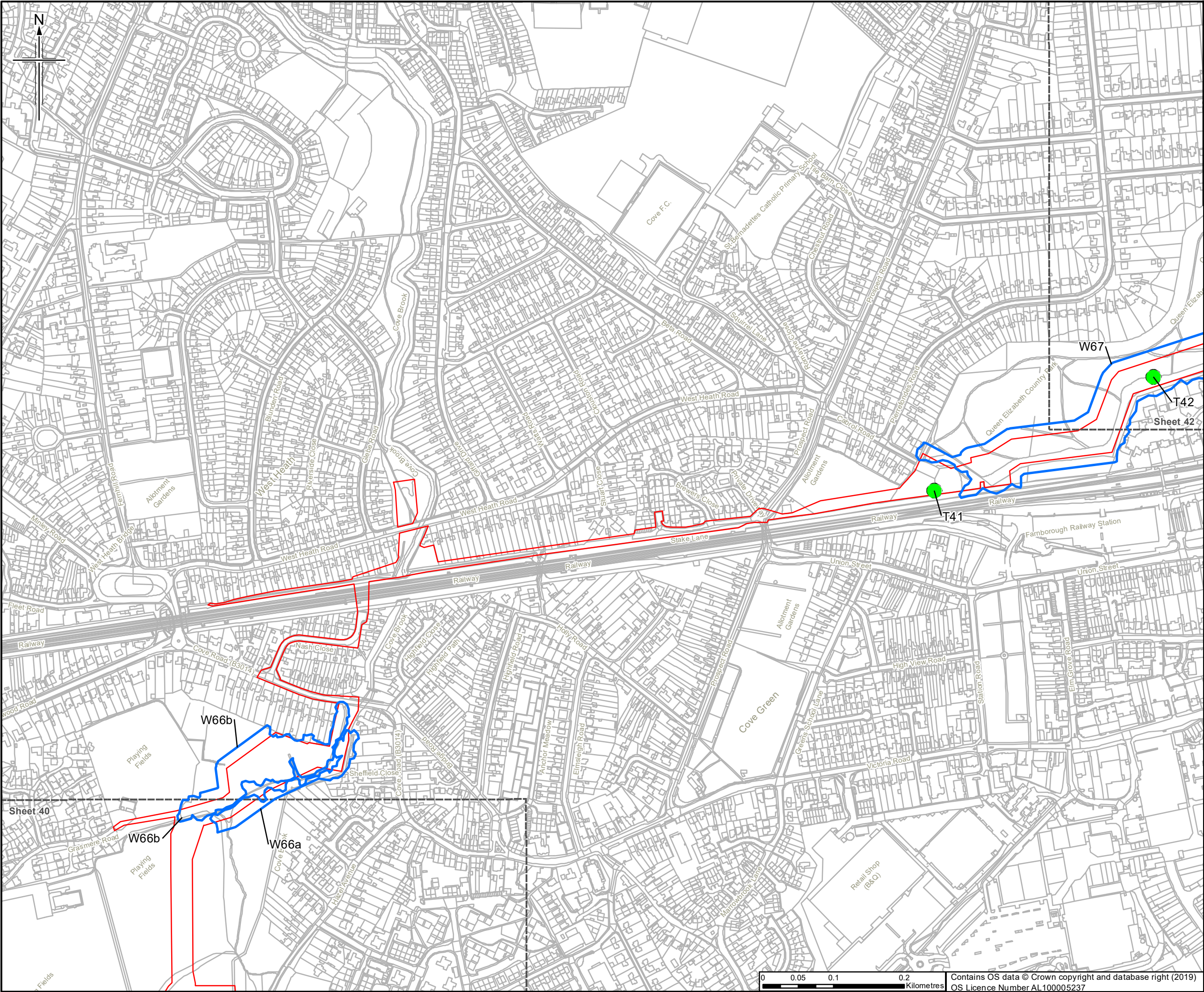
**Legend**

- Order Limits
- Notable category A individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.


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Project <b>Esso</b>   Southampton to London Pipeline Project						
Drawing title <b>NOTABLE TREES PLAN</b>						
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Rev 0						
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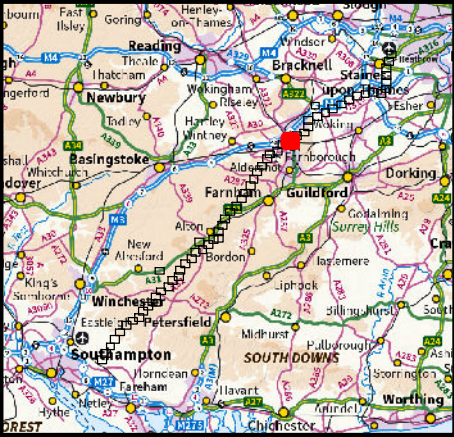
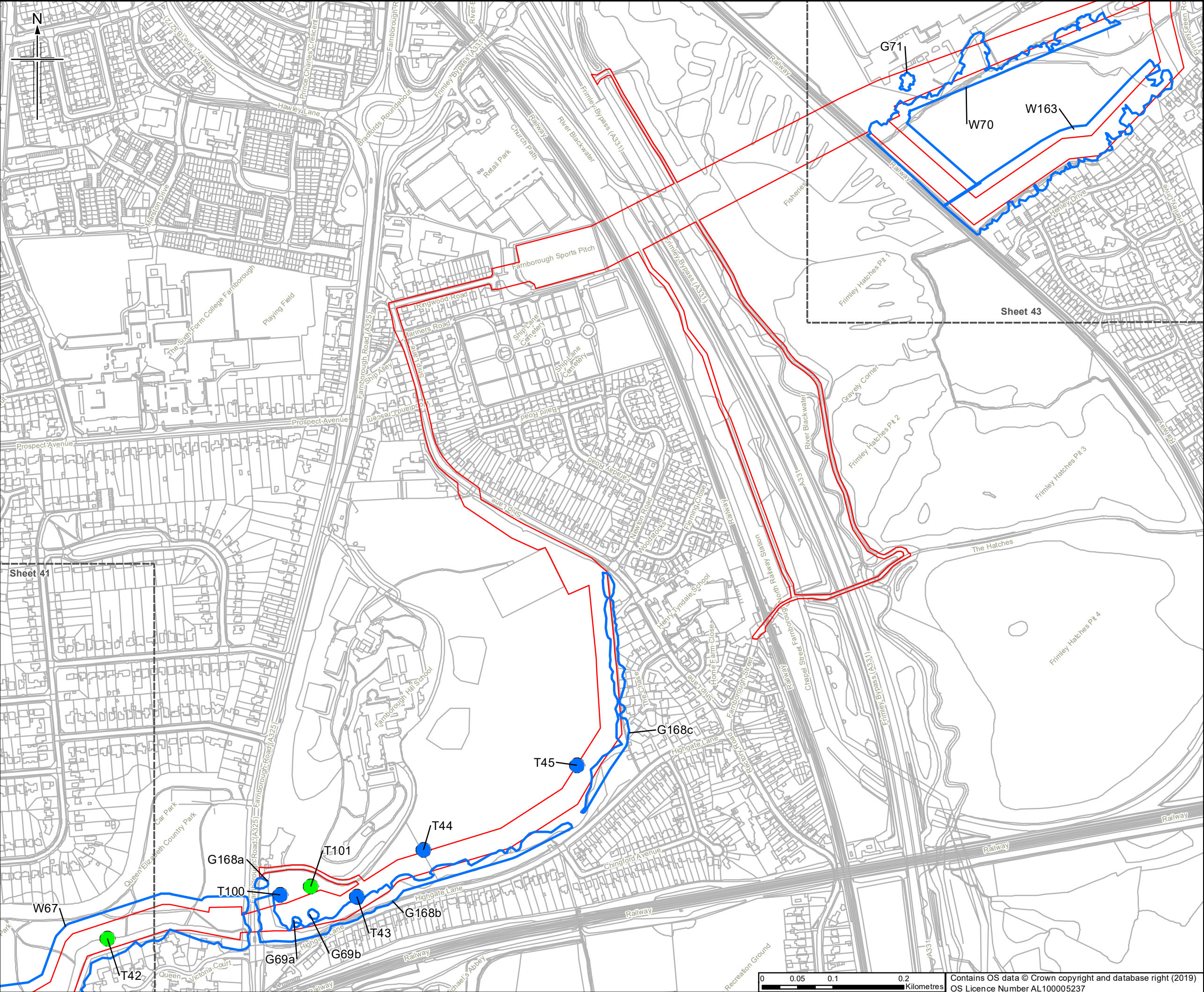


- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

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Client						
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Jacobs No.	B2325300					
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 41 of 62					Rev 0
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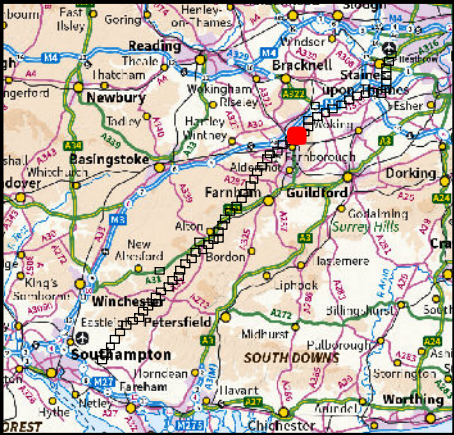
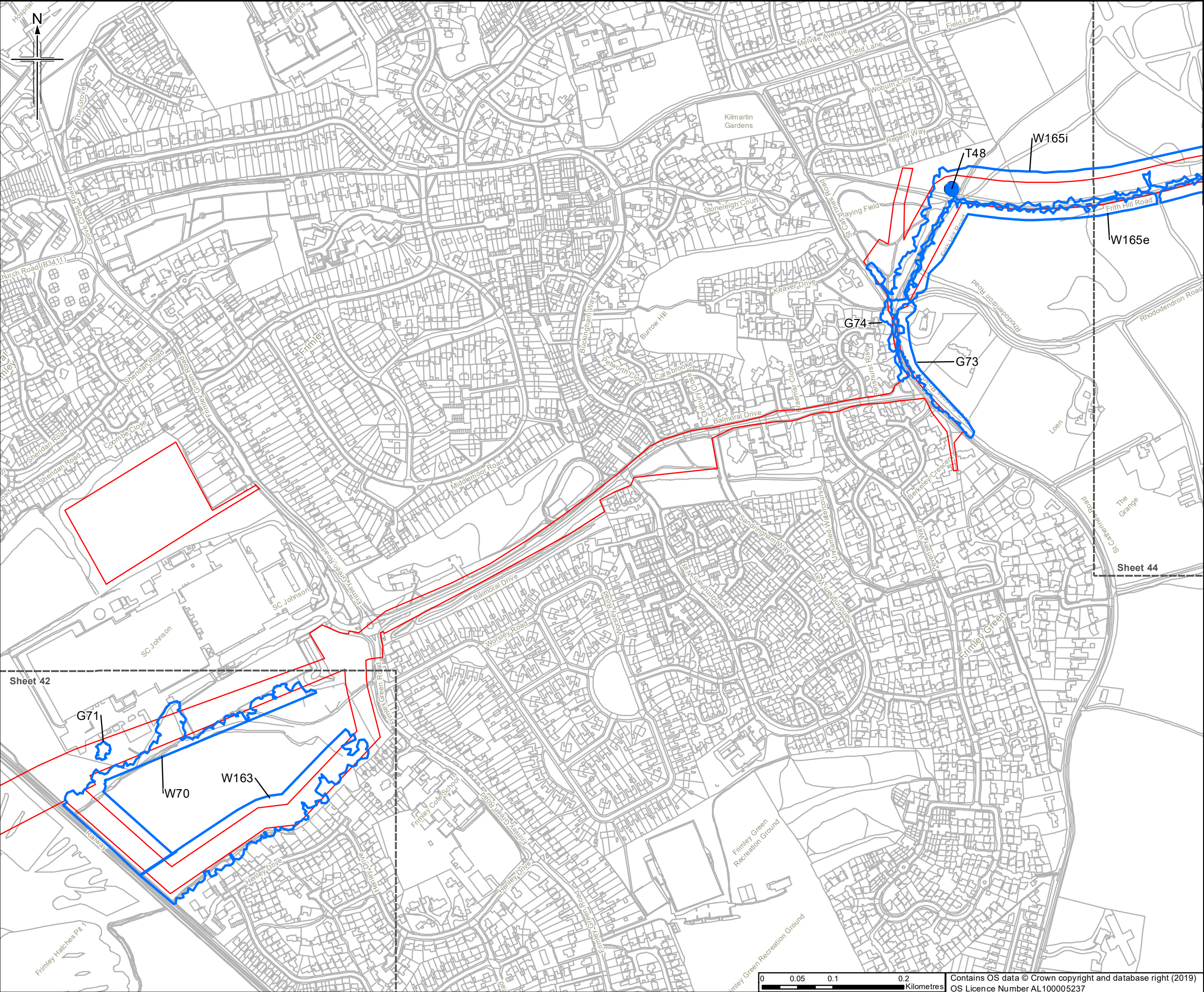
- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client						
Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project						
<div>Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
Drawing Status						
For Issue						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number						Rev 0
Figure LV.1.9.1 Sheet 42 of 62						
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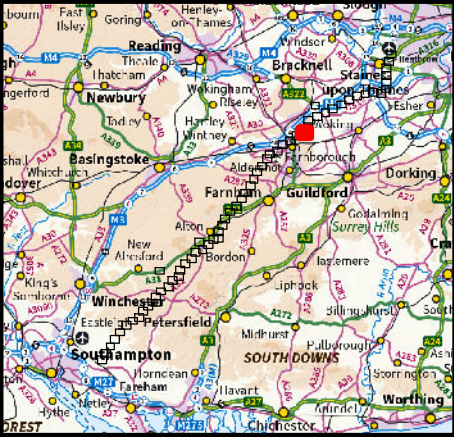
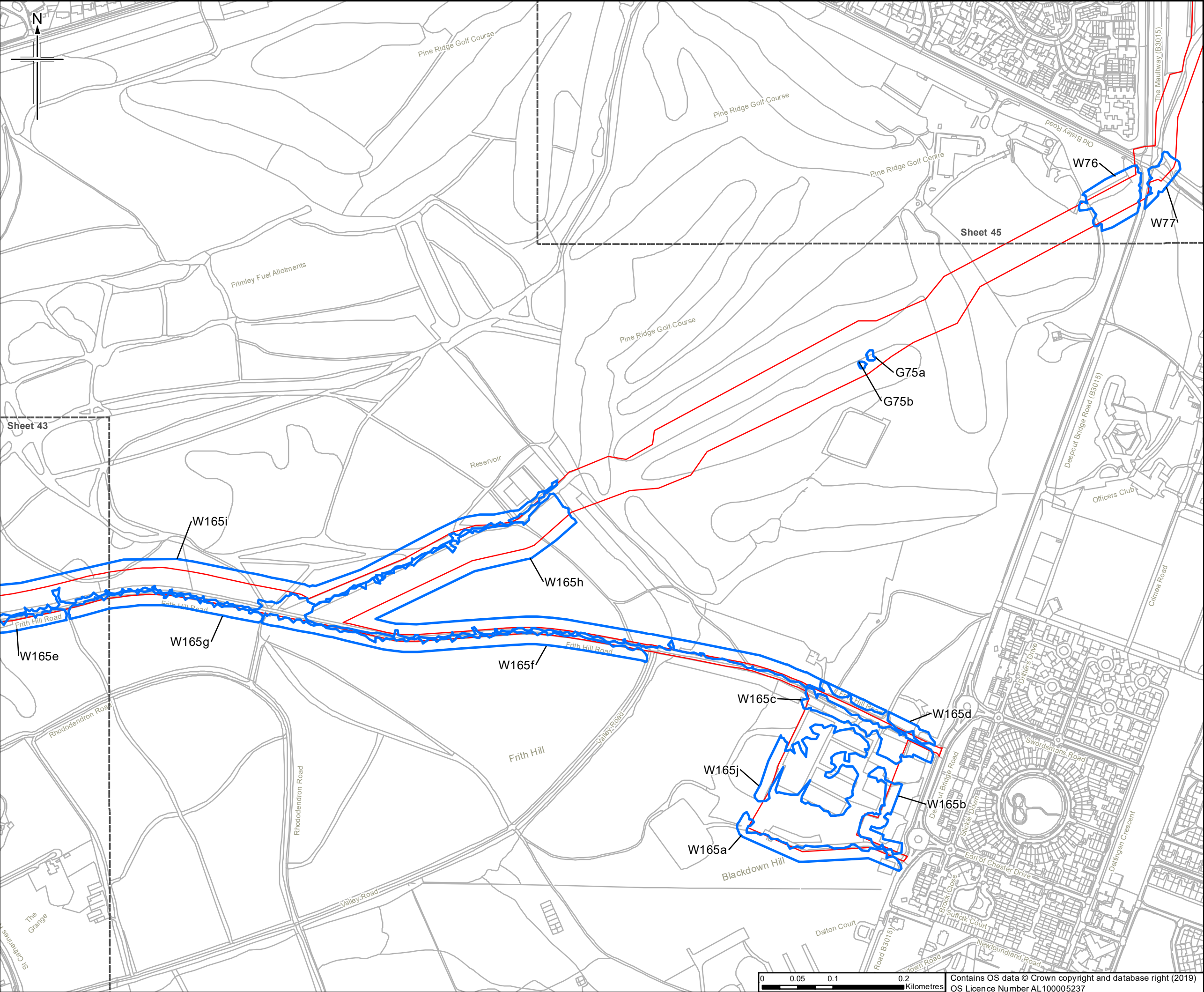
**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project  Southampton to London Pipeline Project						
Drawing title <b>NOTABLE TREES PLAN</b>						
Drawing Status For issue						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 43 of 62					Rev 0
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**Legend**

- Order Limits
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Check'd	Rev'd	Appr'd
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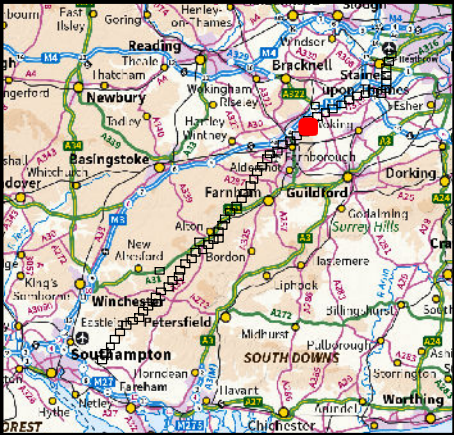
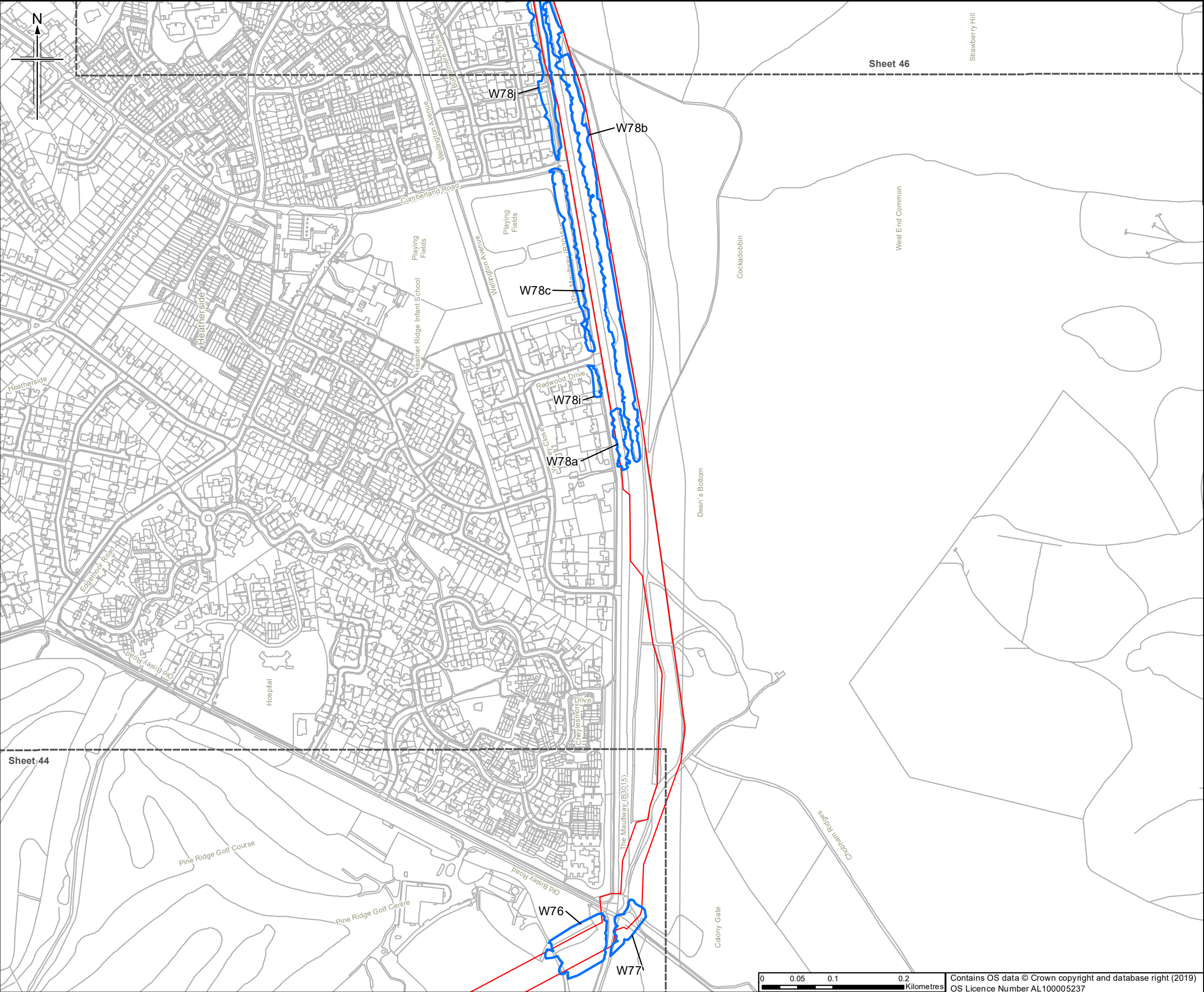
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 44 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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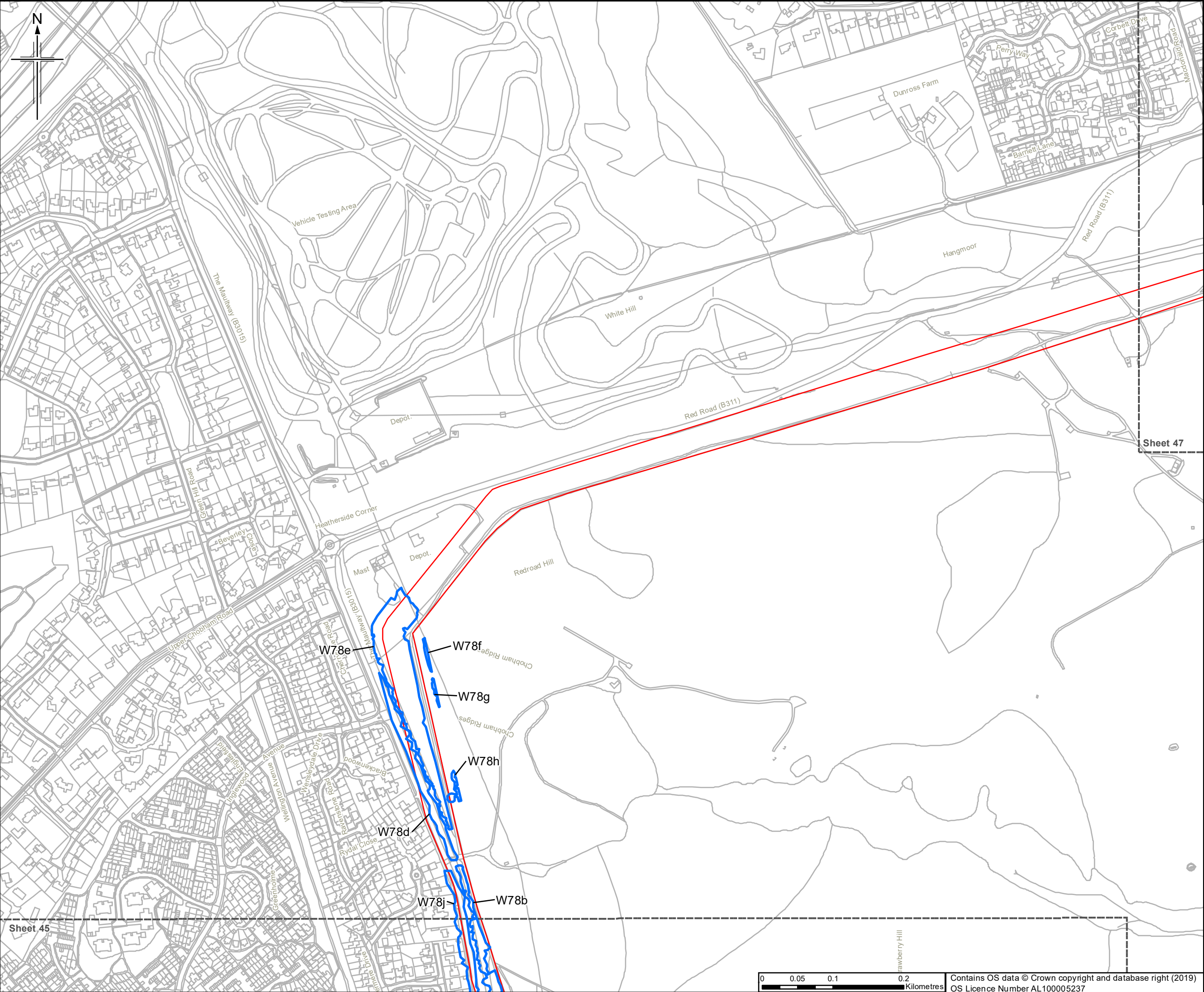
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue		
Scale	1:5,000	@ A3	DO NOT SCALE
Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 45 of 62	Rev	0

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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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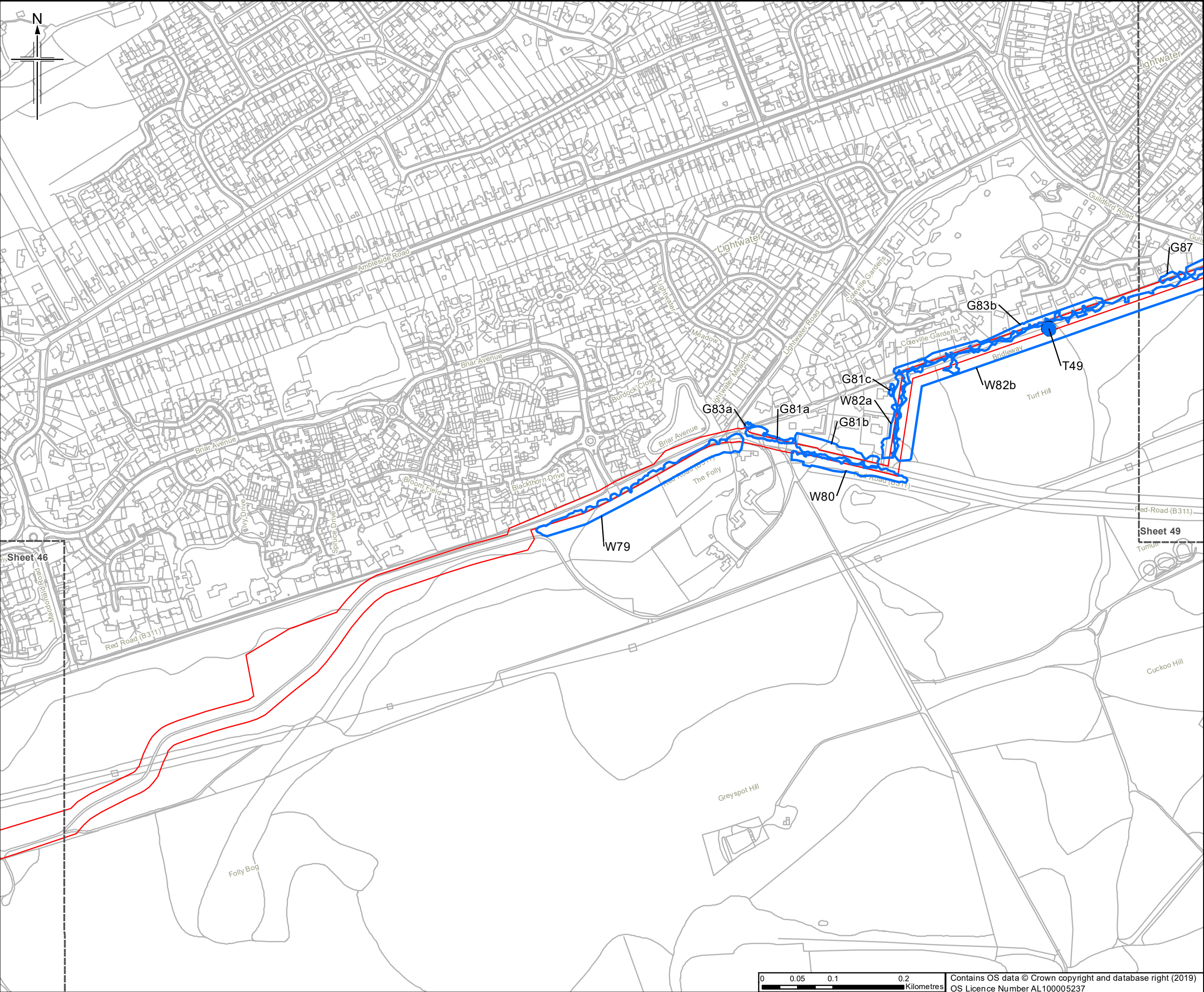
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 46 of 62
Rev	0

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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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KT22 8UX

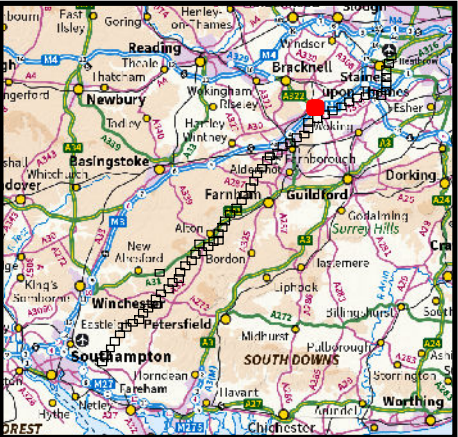
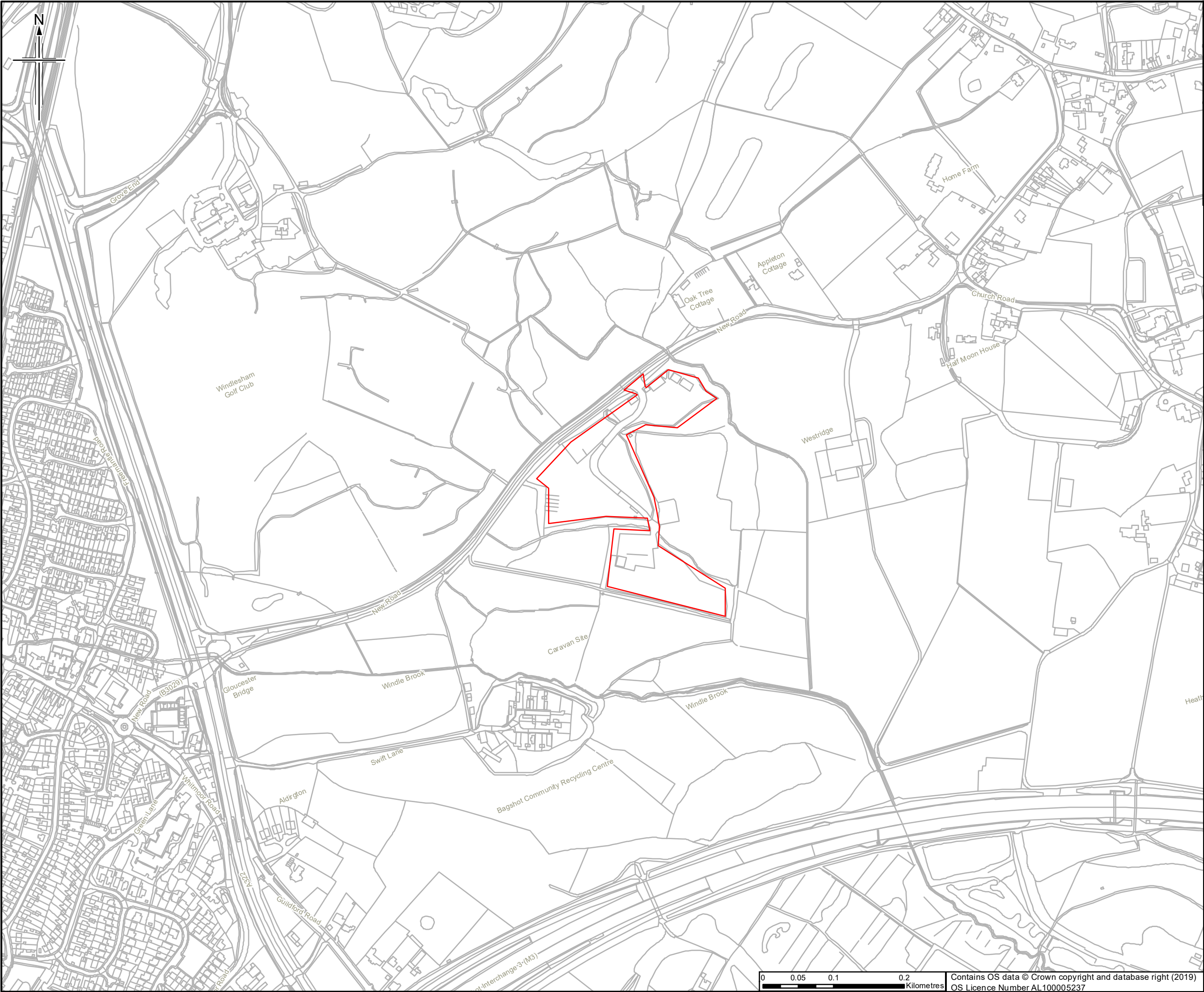
Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 47 of 62
Rev	0

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**Legend**

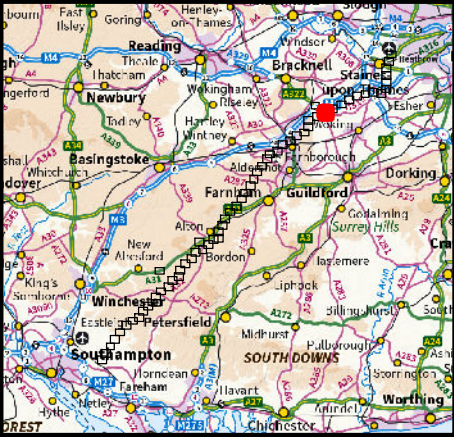
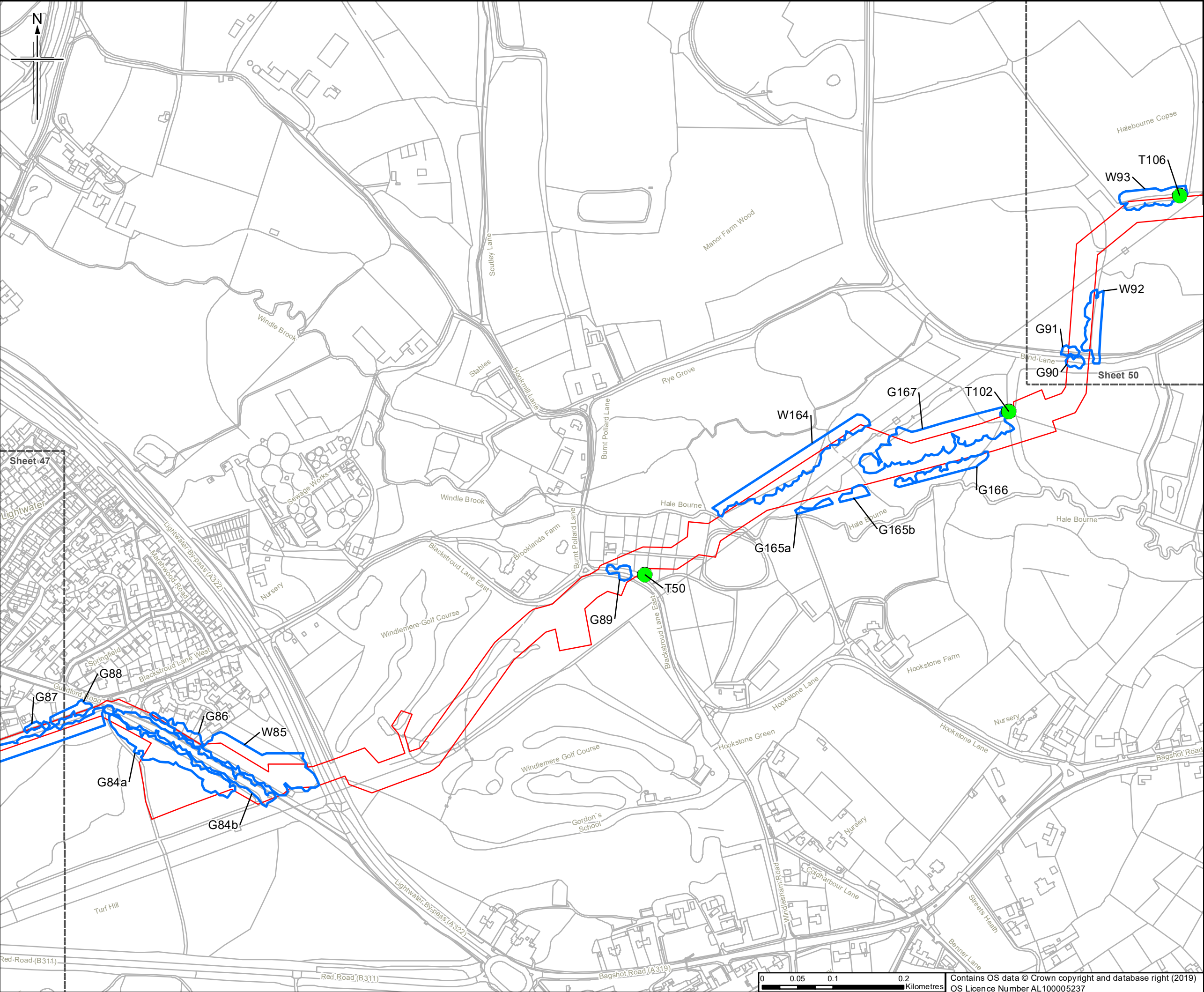
Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.


0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project Southampton to London Pipeline Project						
Drawing title  NOTABLE TREES PLAN						
Drawing Status For Issue						
Scale		1:5,000 @ A3		DO NOT SCALE		
Jacobs No.		B2325300				
Project/Wise No.		B2325300-JAC-000-ENV-DRG-111117				
Drawing number		Figure LV.1.9.1 Sheet 48 of 62				Rev 0
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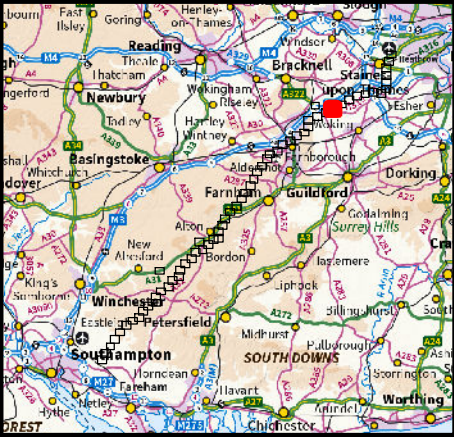
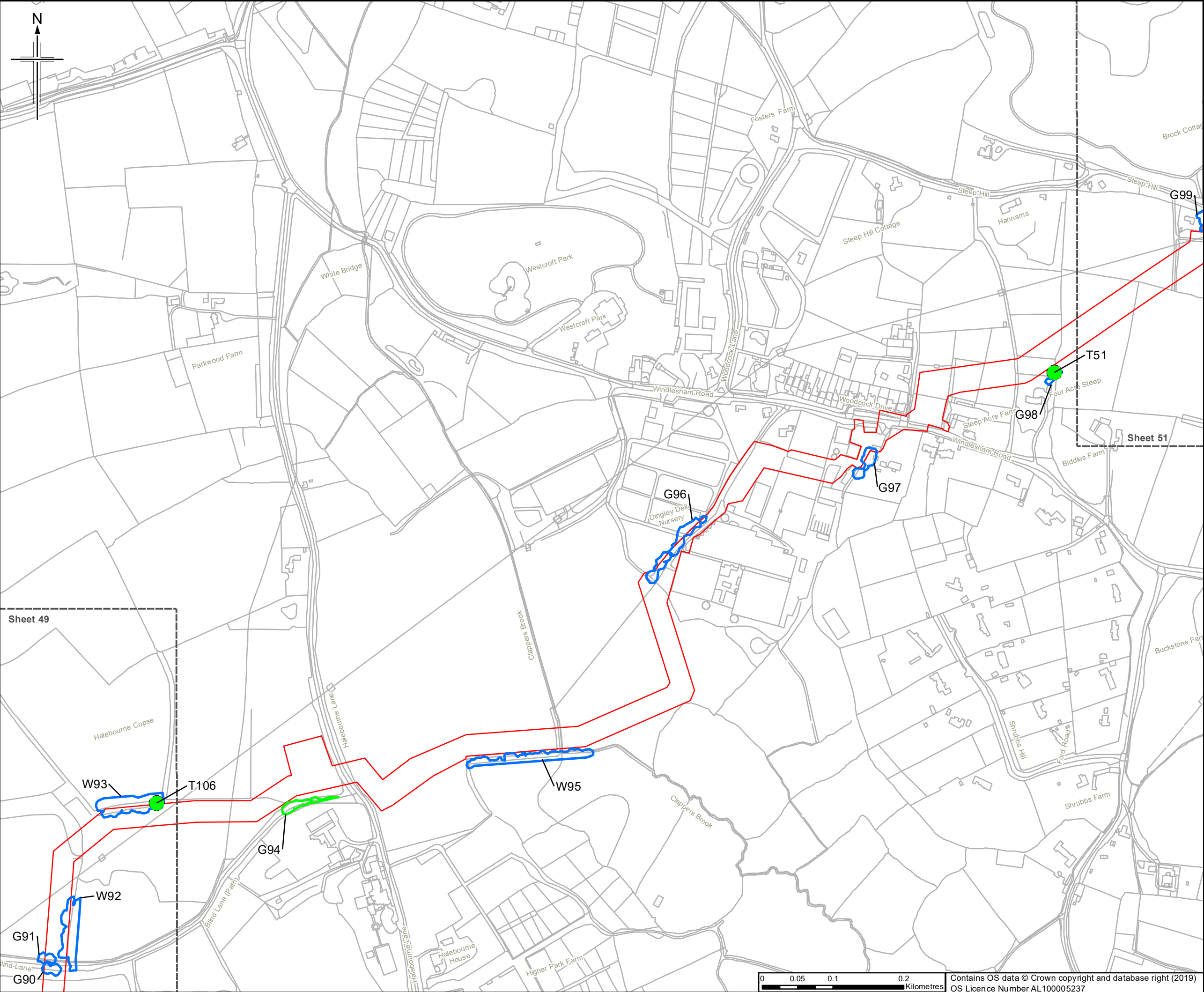


- Legend**
- Order Limits
  - Notable category A individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

0	12/11/2019	For Issue	LM	DR/TC	LD	SN
Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
Author						
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Client						
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Project						
<div> Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
Drawing Status						
For Issue						
Scale	1:5,000		@ A3	DO NOT SCALE		
Jacobs No.	B2325300					
Project/Wise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 49 of 62				Rev	0
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- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
    - groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree
    - groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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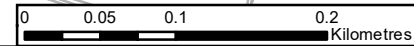
Client  
Esso Petroleum Company, Limited  
Ermy House,  
Ermy Way,  
Leatherhead,  
Surrey,  
KT22 8UX

Project  
**Esso** | Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

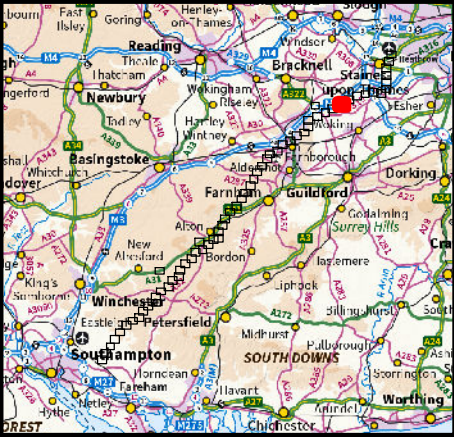
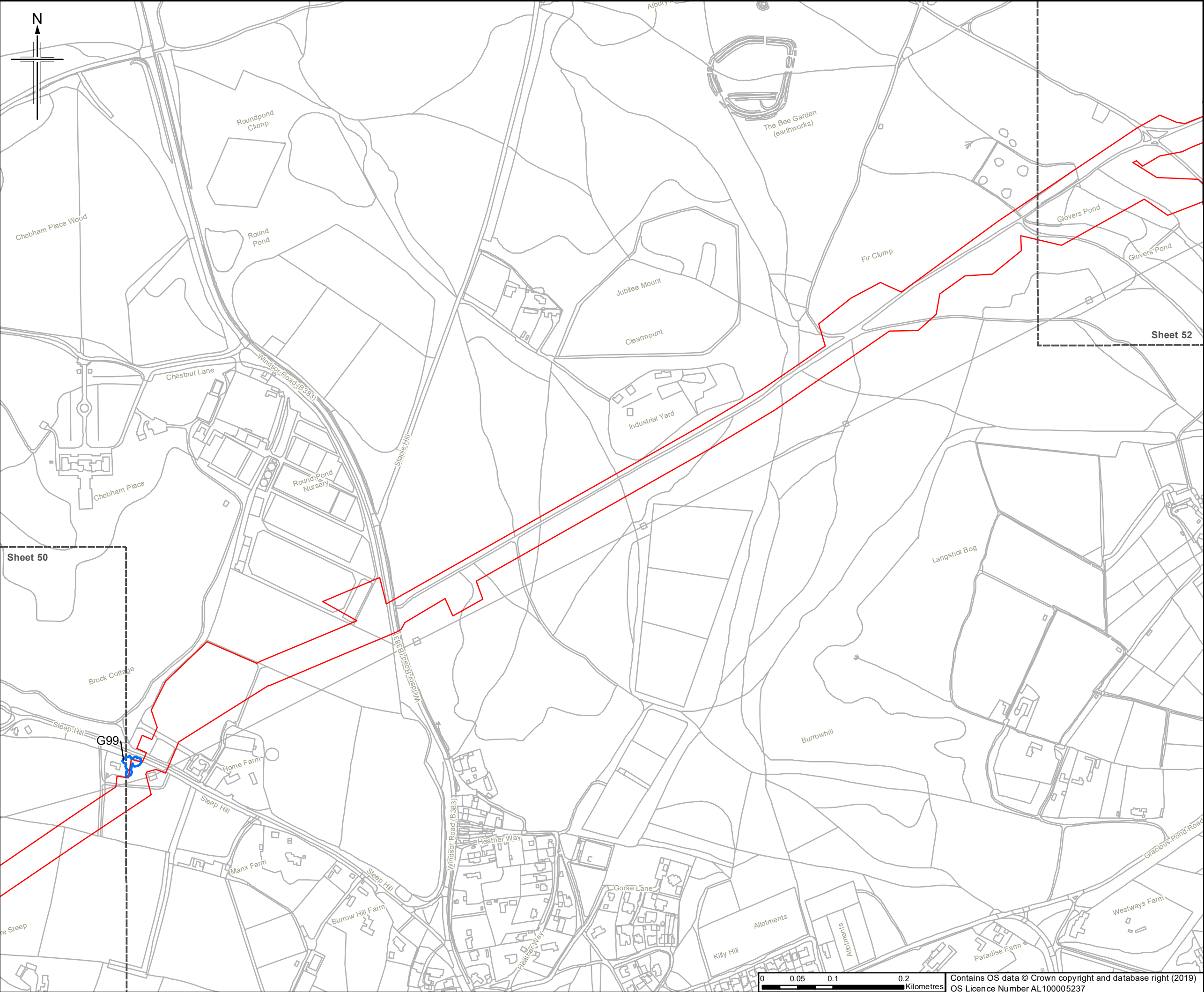
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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 50 of 62
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
0	12/11/2019	For issue	LM	DR/TC	LD	SN

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Surrey,  
KT22 8UX

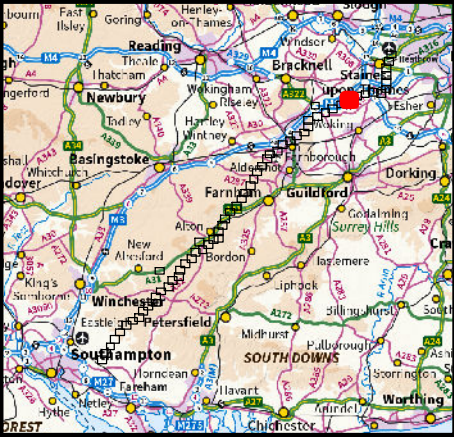
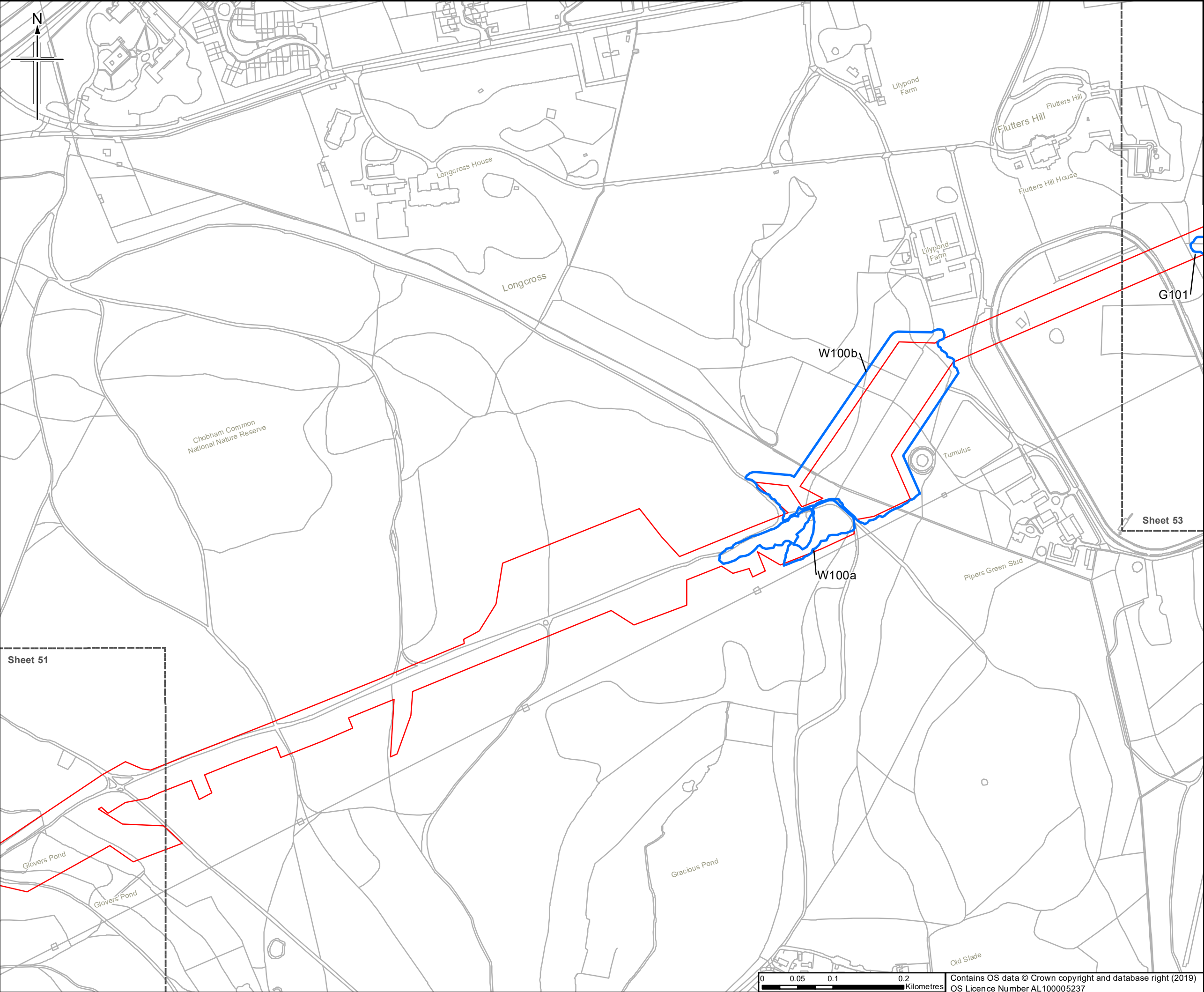
Project  
 Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue		
Scale	1:5,000	@ A3	DO NOT SCALE
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Drawing number	Figure LV.1.9.1 Sheet 51 of 62	Rev	0

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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

Rev.	Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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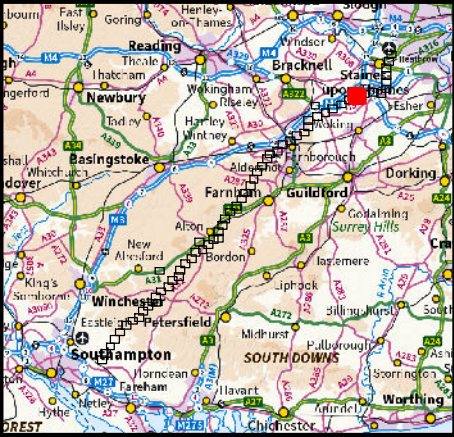
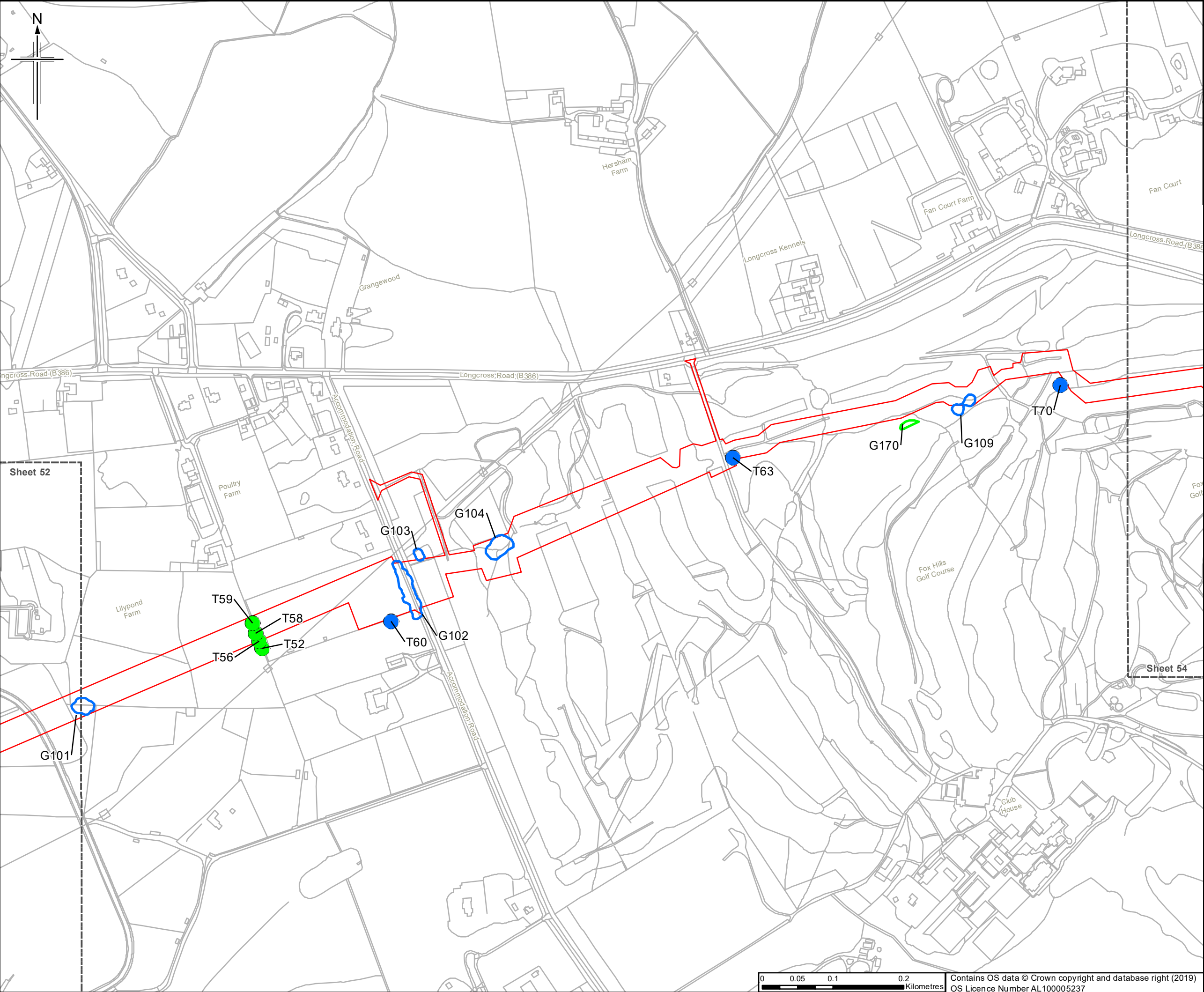
Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For Issue
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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 52 of 62
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- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
  - Notable category A tree
    - groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree
    - groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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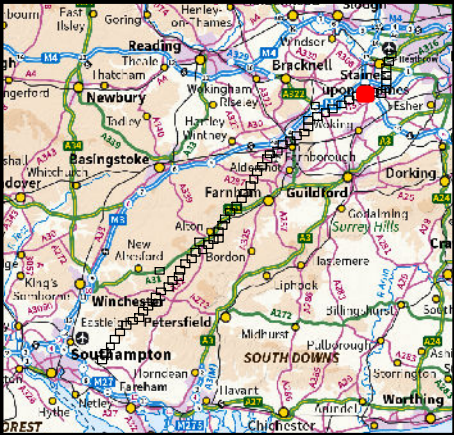
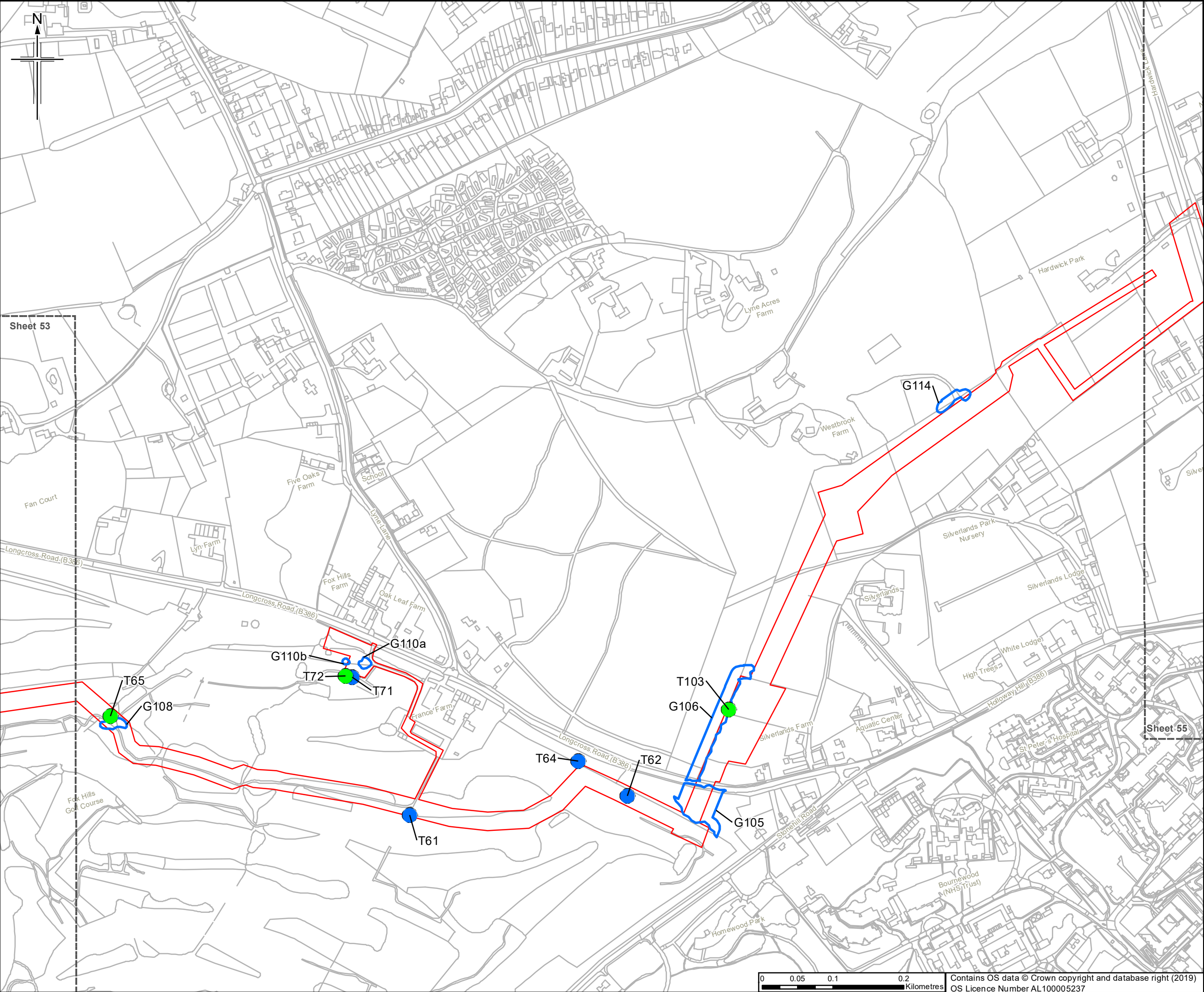
Project  
**Esso** Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status	For issue
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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 53 of 62
Rev	0


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- Legend**
- Order Limits
  - Notable category A  
individual trees (British Standard 5837: 2012)
  - Notable category B  
individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

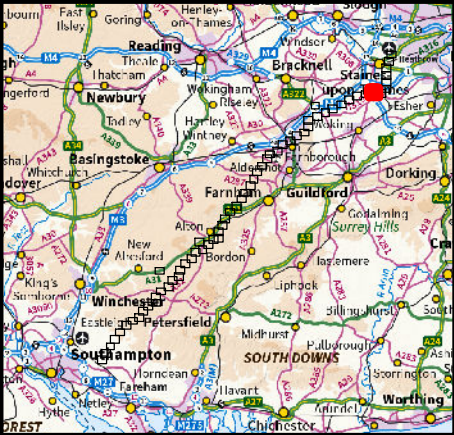
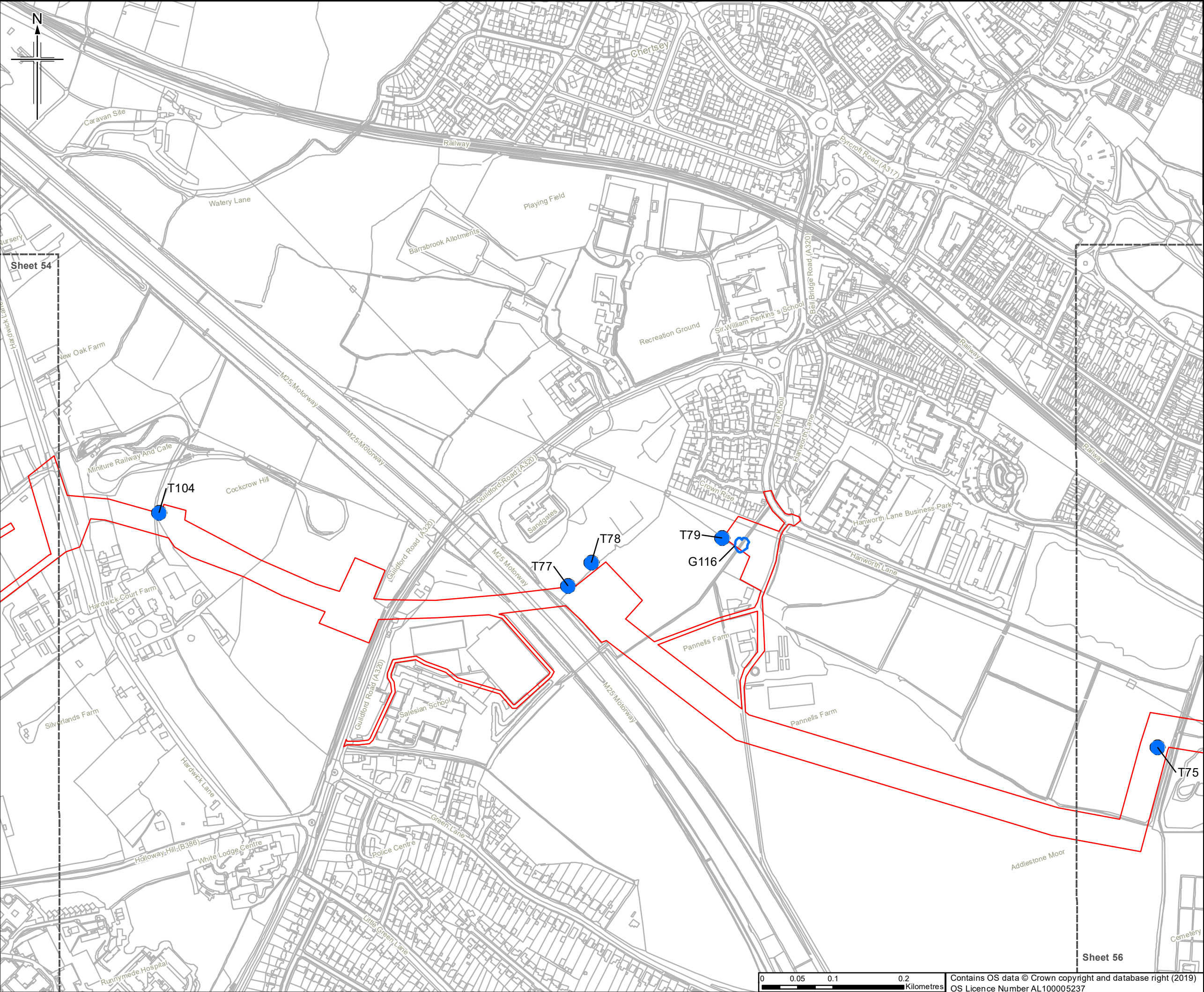
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

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NOTABLE TREES PLAN						
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**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Project  
**Esso** | Southampton to London Pipeline Project

Drawing title  
**NOTABLE TREES PLAN**

Drawing Status  
For issue

Scale  
1:5,000 @ A3 DO NOT SCALE

Jacobs No.  
B2325300

ProjectWise No.  
B2325300-JAC-000-ENV-DRG-111117

Drawing number  
Figure LV.1.9.1 Sheet 55 of 62

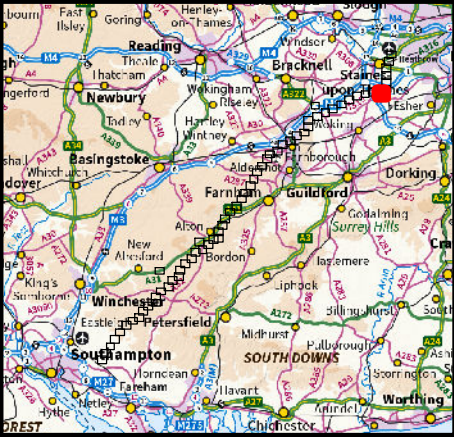
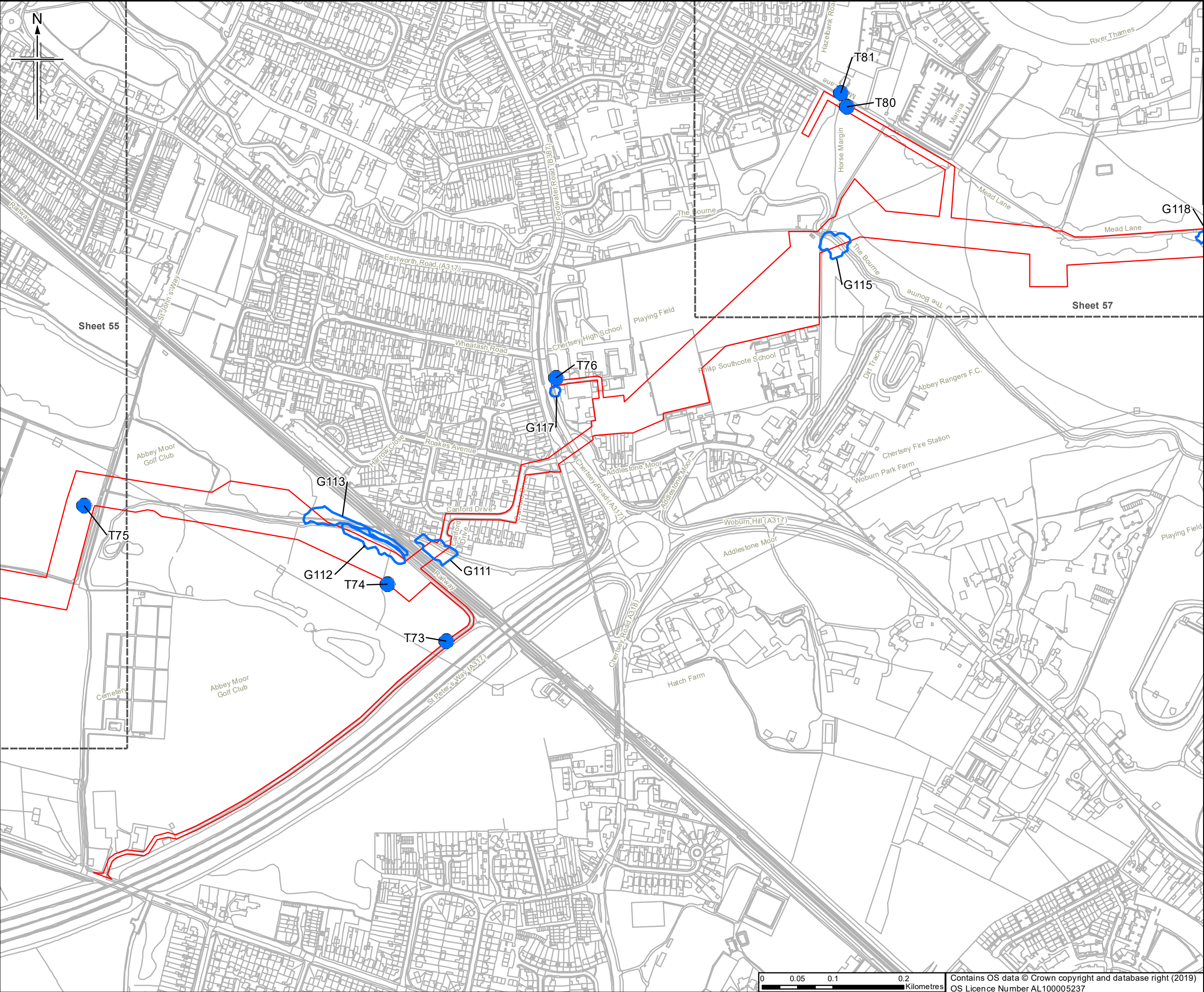
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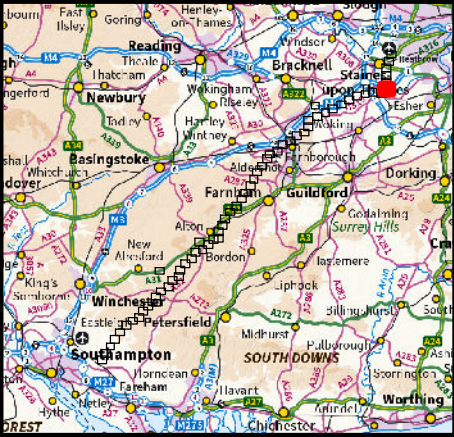
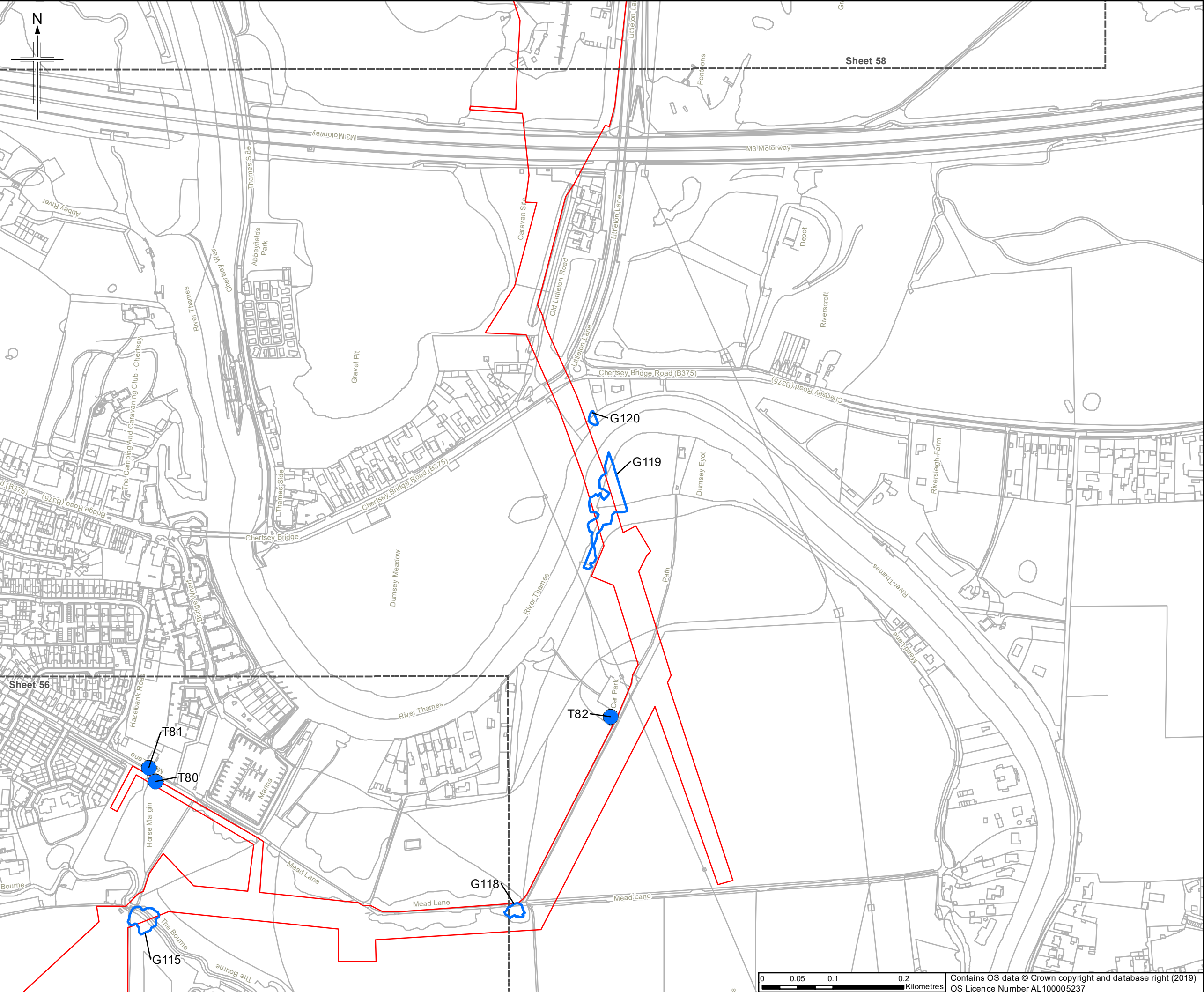
**Legend**

- Order Limits
- Notable category B individual trees (British Standard 5837: 2012)
- Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checkd	Rev'd	Apprv'd
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Project  Southampton to London Pipeline Project						
Drawing title <b>NOTABLE TREES PLAN</b>						
Drawing Status For issue						
Scale		1:5,000		@ A3		DO NOT SCALE
Jacobs No.		B2325300				
ProjectWise No.		B2325300-JAC-000-ENV-DRG-111117				
Drawing number		Figure LV.1.9.1 Sheet 56 of 62				Rev 0
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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

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Drawing title  
**NOTABLE TREES PLAN**

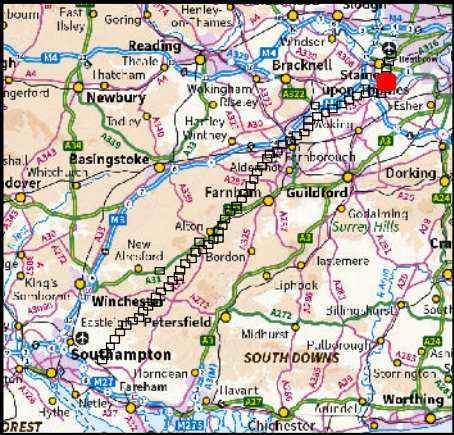
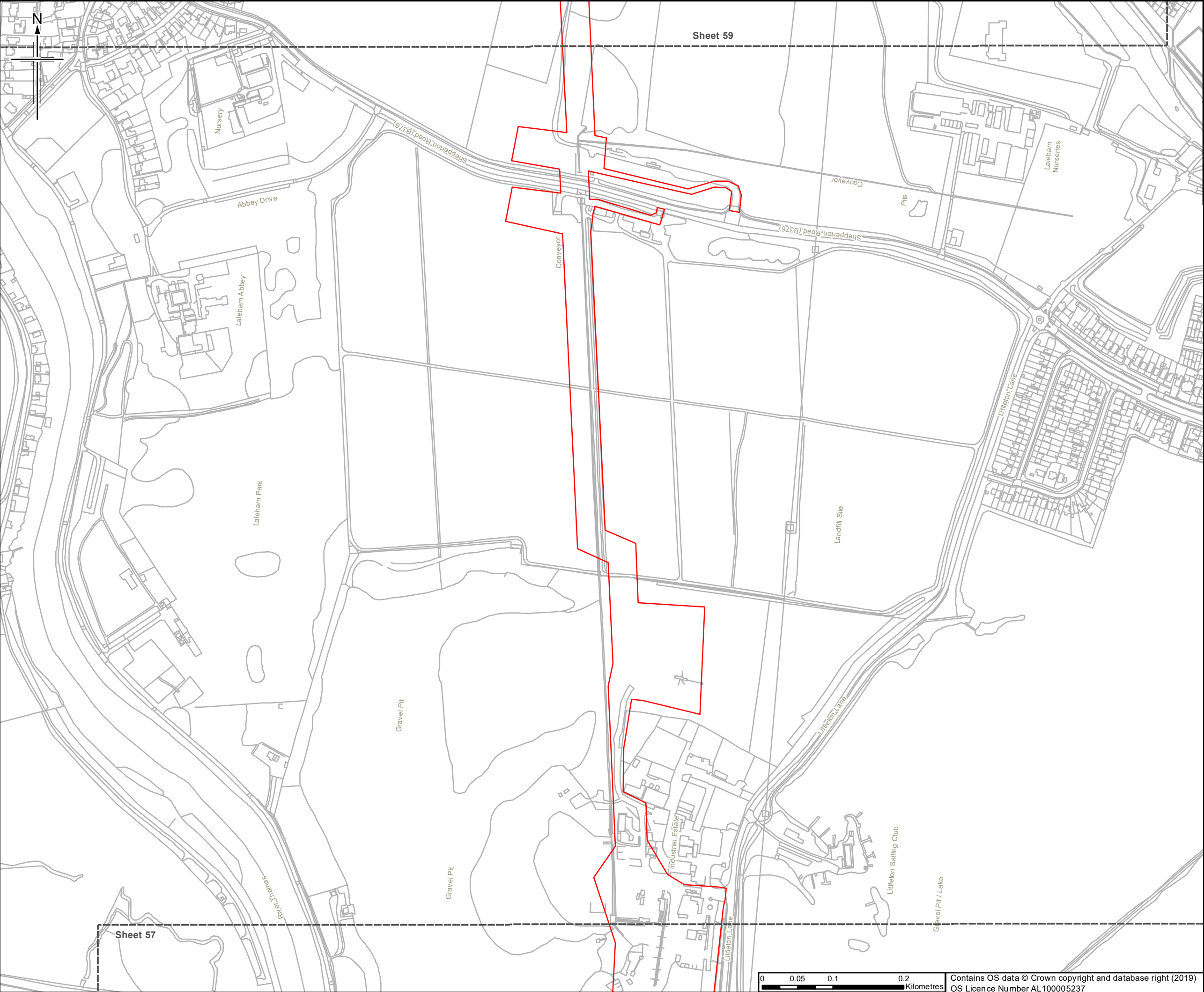
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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 57 of 62
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**Legend**

Order Limits

Within the part of the Order Limits illustrated on this sheet, no notable trees have been recorded in the arboricultural survey

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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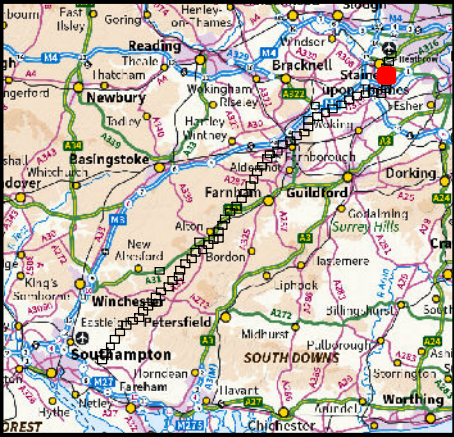
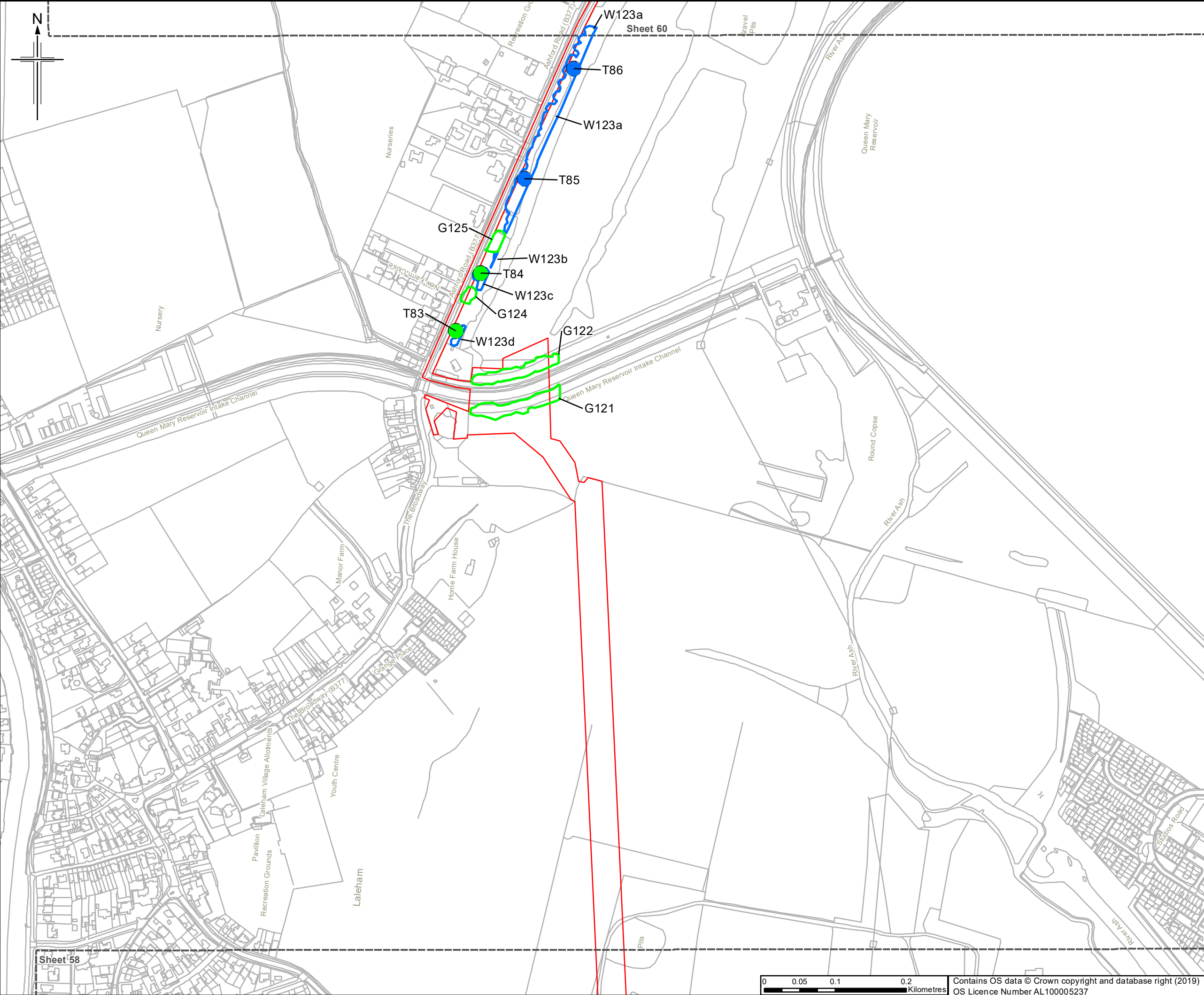
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**NOTABLE TREES PLAN**

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ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117		
Drawing number	Figure LV.1.9.1 Sheet 58 of 62		Rev 0


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- Legend**
- Order Limits
  - Notable category A
    - individual trees (British Standard 5837: 2012)
  - Notable category B
    - individual trees (British Standard 5837: 2012)
  - Notable category A tree
    - groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree
    - groups/woodlands (British Standard 5837: 2012)

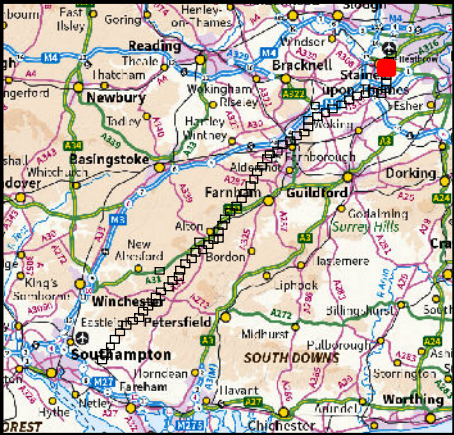
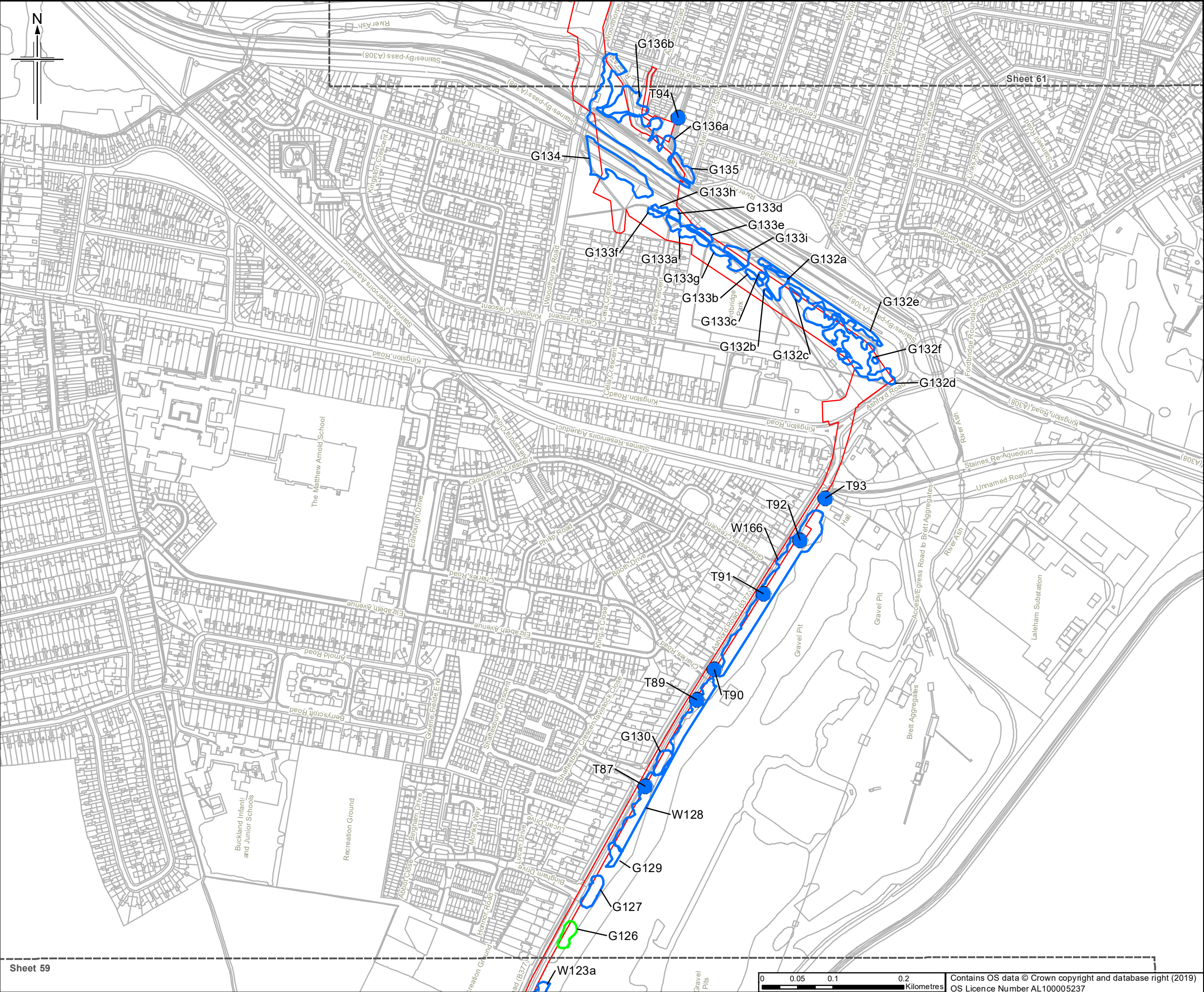
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Rev.	Rev. Date	Purpose of revision	Orig/Dwn	Checked	Rev'd	Apprv'd
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Project						
<div> Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
Drawing Status						
For Issue						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
Project/Work No.	B2325300-JAC-000-ENV-DRG-111117					
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- Legend**
- Order Limits
  - Notable category B individual trees (British Standard 5837: 2012)
  - Notable category A tree groups/woodlands (British Standard 5837: 2012)
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

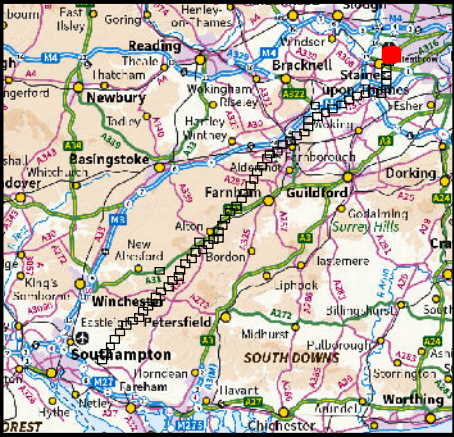
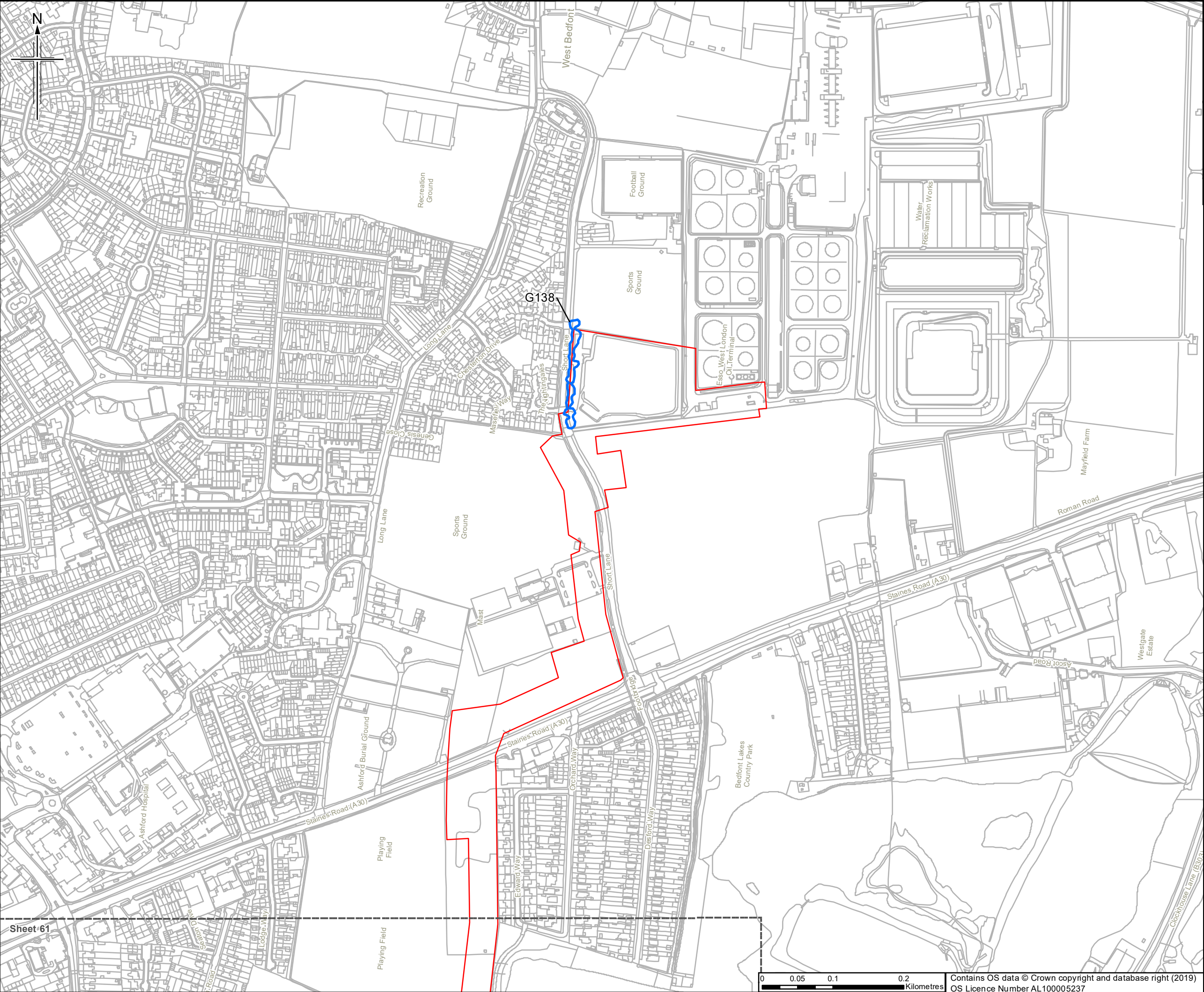
Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (Application Document 6.4). For further details regarding the notable trees, please refer to this appendix.

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Project						
<div> Southampton to London Pipeline Project</div>						
Drawing title						
NOTABLE TREES PLAN						
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Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117					
Drawing number	Figure LV.1.9.1 Sheet 60 of 62					Rev 0
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- Legend**
- Order Limits
  - Notable category B tree groups/woodlands (British Standard 5837: 2012)

Note: The tree reference numbers for the notable trees illustrated on this plan correspond with the reference numbers for trees within 15m of the Order Limits in revision 2 of Appendix 10.2 of the Environmental Statement, Schedule of Notable Trees (**Application Document 6.4**). For further details regarding the notable trees, please refer to this appendix.

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Drawing title  
**NOTABLE TREES PLAN**

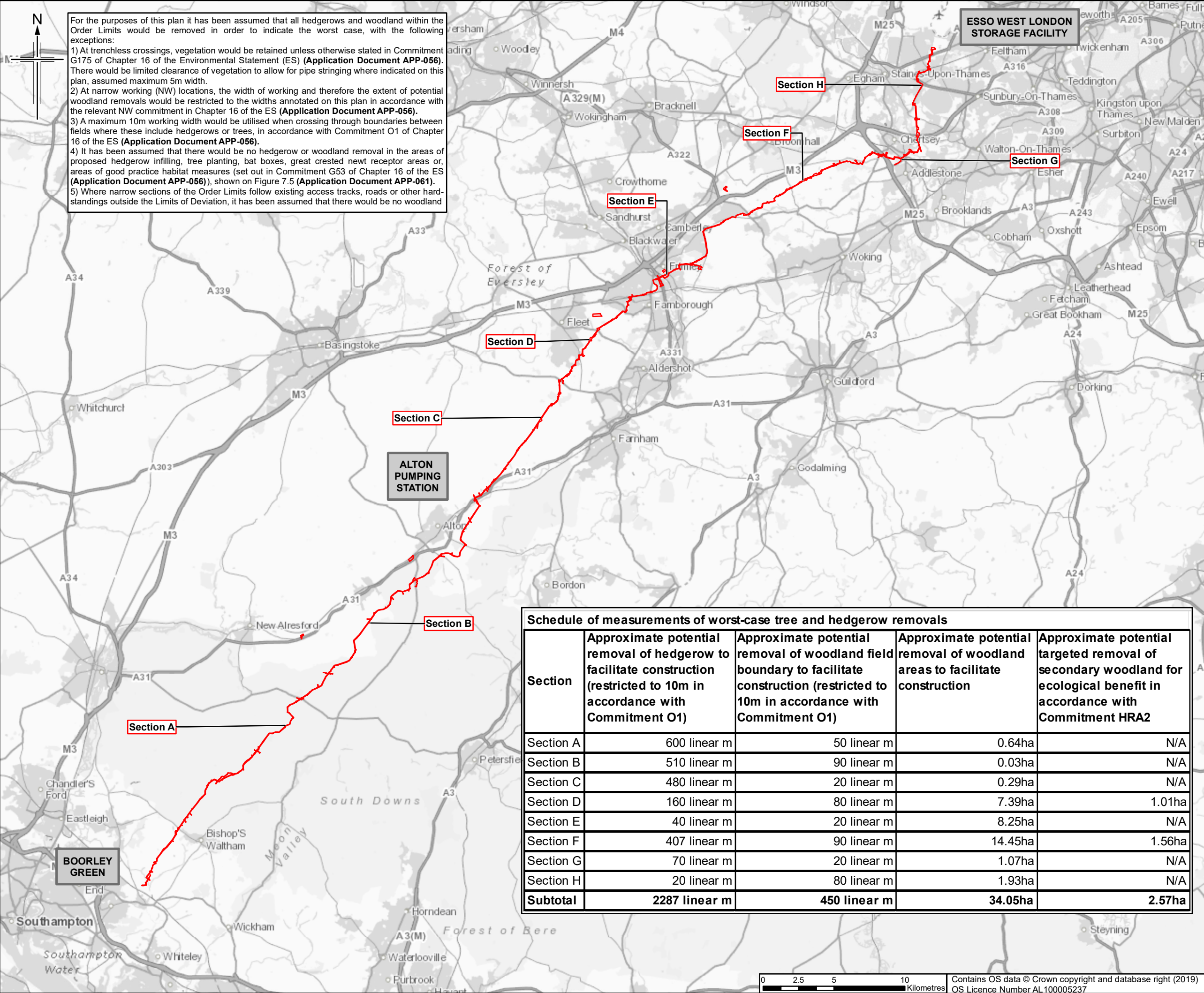
Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111117
Drawing number	Figure LV.1.9.1 Sheet 62 of 62
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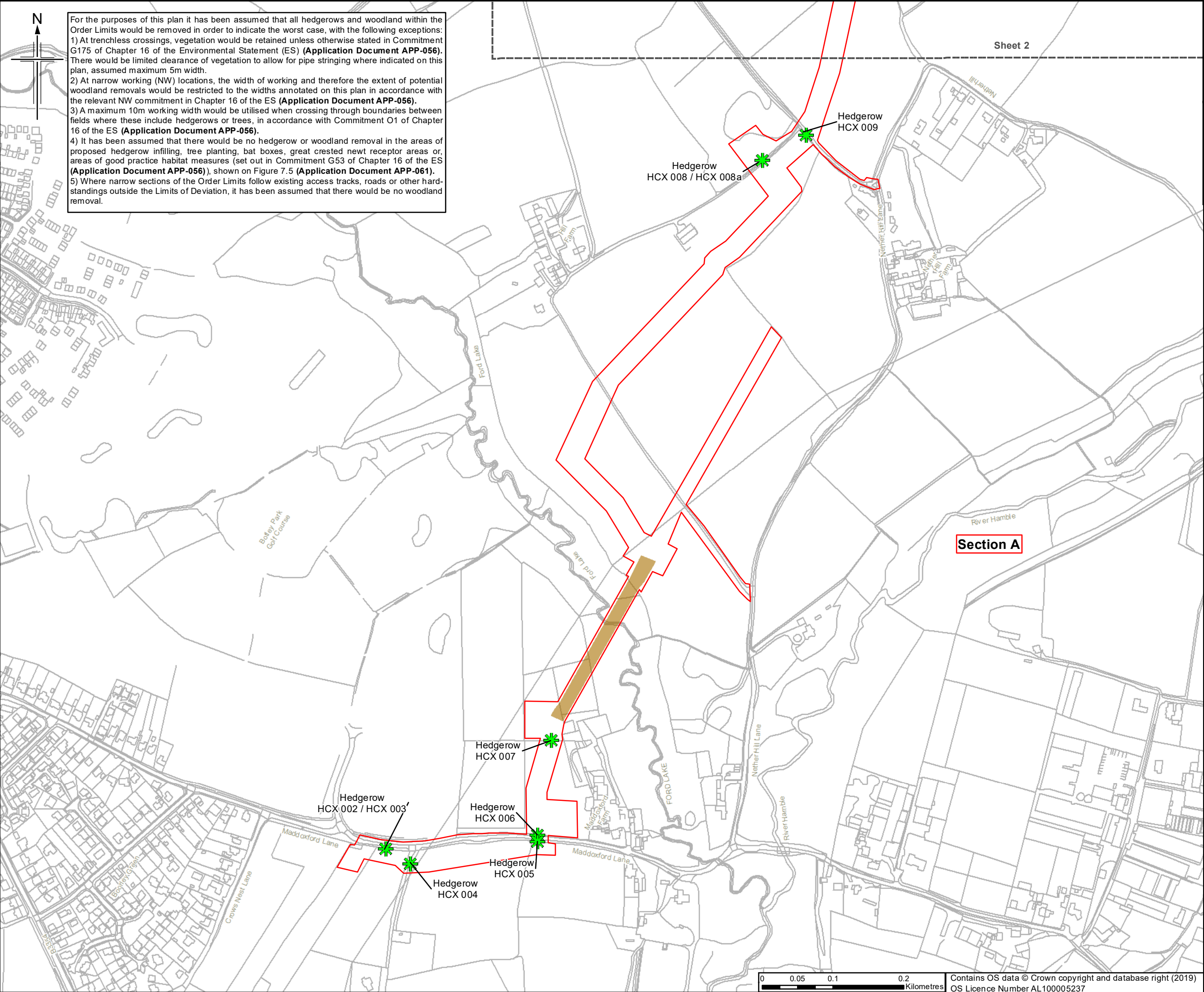


**Figure LV.1.14.1: Tree and Hedgerow Worst Case Removal**









For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would be removed in order to indicate the worst case, with the following exceptions:

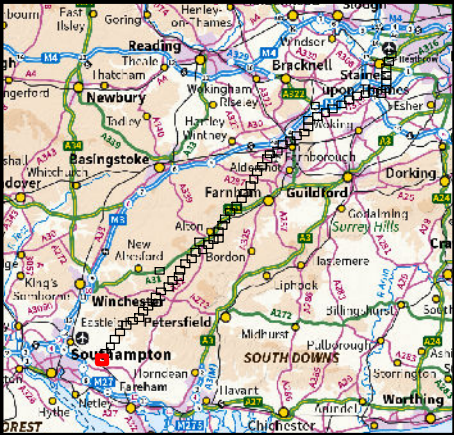
1) At trenchless crossings, vegetation would be retained unless otherwise stated in Commitment G175 of Chapter 16 of the Environmental Statement (ES) (**Application Document APP-056**). There would be limited clearance of vegetation to allow for pipe stringing where indicated on this plan, assumed maximum 5m width.

2) At narrow working (NW) locations, the width of working and therefore the extent of potential woodland removals would be restricted to the widths annotated on this plan in accordance with the relevant NW commitment in Chapter 16 of the ES (**Application Document APP-056**).

3) A maximum 10m working width would be utilised when crossing through boundaries between fields where these include hedgerows or trees, in accordance with Commitment O1 of Chapter 16 of the ES (**Application Document APP-056**).

4) It has been assumed that there would be no hedgerow or woodland removal in the areas of proposed hedgerow infilling, tree planting, bat boxes, great crested newt receptor areas or, areas of good practice habitat measures (set out in Commitment G53 of Chapter 16 of the ES (**Application Document APP-056**)), shown on Figure 7.5 (**Application Document APP-061**).

5) Where narrow sections of the Order Limits follow existing access tracks, roads or other hard-standings outside the Limits of Deviation, it has been assumed that there would be no woodland removal.



- Legend**
- Order Limits
  - Trenchless crossing
  - Hedge crossing points

**Notes:**

1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.

2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.

3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.

4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).

5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.

6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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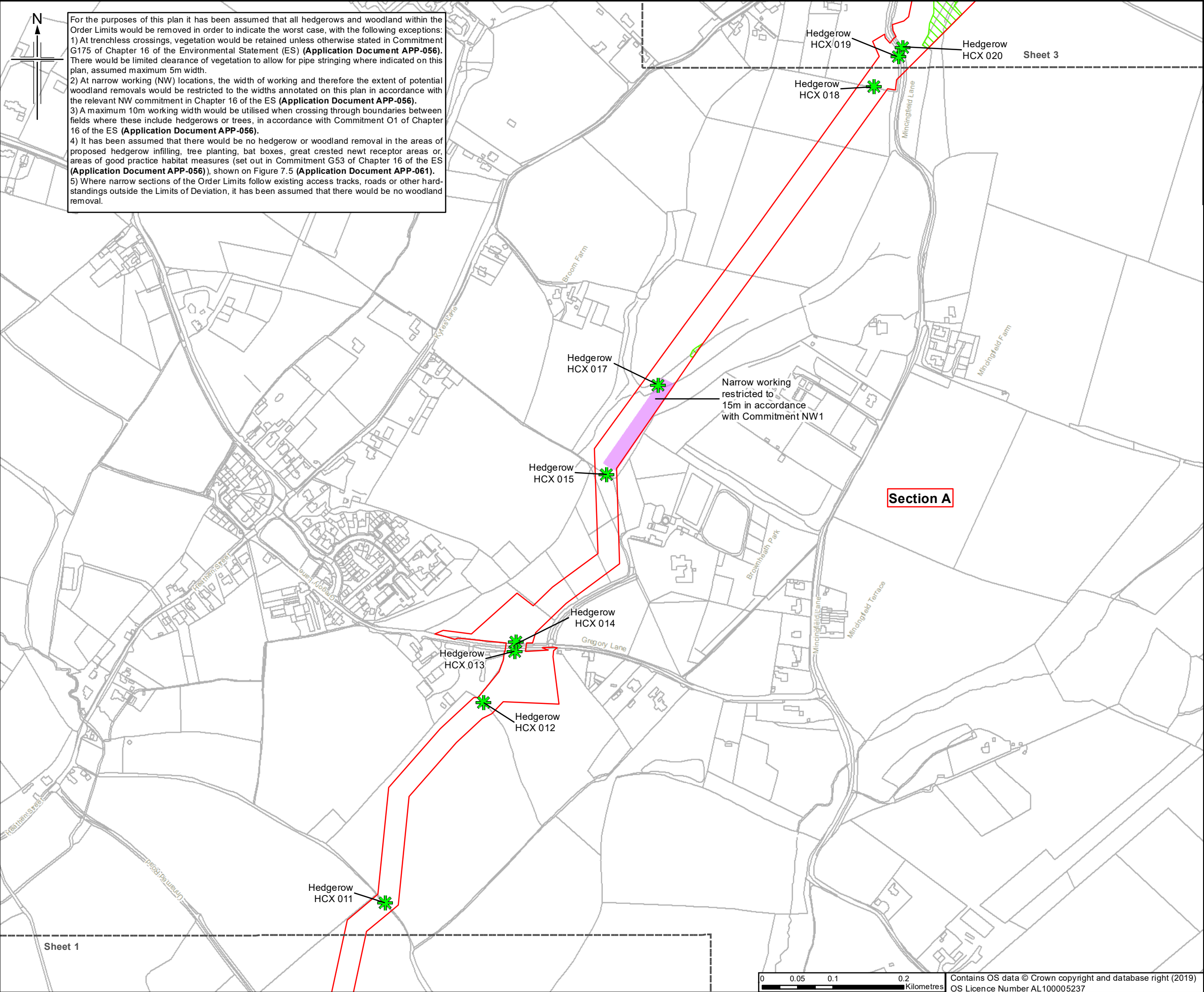
Drawing title

**TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN**

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111118
Drawing number	Figure LV.1.14.1 Sheet 1 of 62
Rev	0

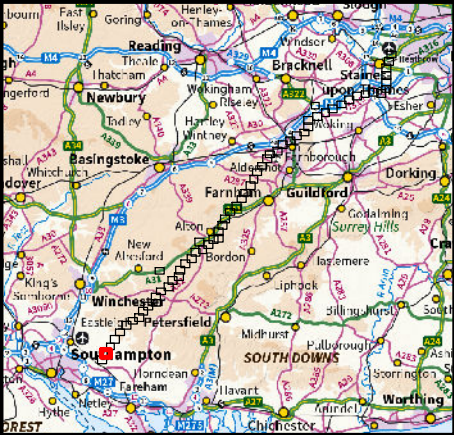
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For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would be removed in order to indicate the worst case, with the following exceptions:

- 1) At trenchless crossings, vegetation would be retained unless otherwise stated in Commitment G175 of Chapter 16 of the Environmental Statement (ES) (**Application Document APP-056**). There would be limited clearance of vegetation to allow for pipe stringing where indicated on this plan, assumed maximum 5m width.
- 2) At narrow working (NW) locations, the width of working and therefore the extent of potential woodland removals would be restricted to the widths annotated on this plan in accordance with the relevant NW commitment in Chapter 16 of the ES (**Application Document APP-056**).
- 3) A maximum 10m working width would be utilised when crossing through boundaries between fields where these include hedgerows or trees, in accordance with Commitment O1 of Chapter 16 of the ES (**Application Document APP-056**).
- 4) It has been assumed that there would be no hedgerow or woodland removal in the areas of proposed hedgerow infilling, tree planting, bat boxes, great crested newt receptor areas or, areas of good practice habitat measures (set out in Commitment G53 of Chapter 16 of the ES (**Application Document APP-056**)), shown on Figure 7.5 (**Application Document APP-061**).
- 5) Where narrow sections of the Order Limits follow existing access tracks, roads or other hard-standings outside the Limits of Deviation, it has been assumed that there would be no woodland removal.



**Legend**

- Order Limits
- Narrow working
- Hedge crossing points
- Potential removal of woodland to facilitate construction

**Notes:**

1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.

2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.

3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.

4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).

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6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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**Project**

Southampton to London Pipeline Project

**Drawing title**

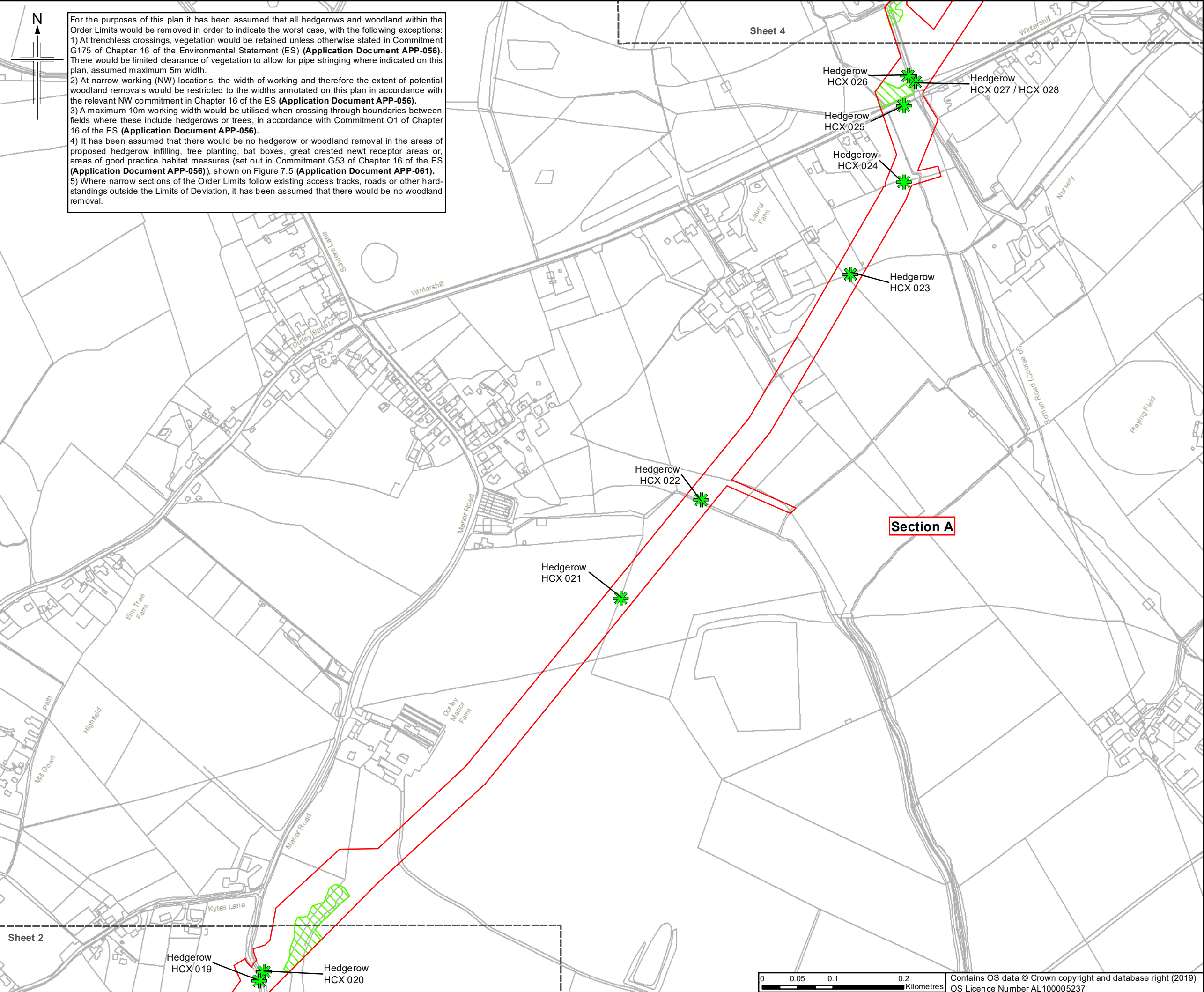
TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN

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Jacobs No.	B2325300				
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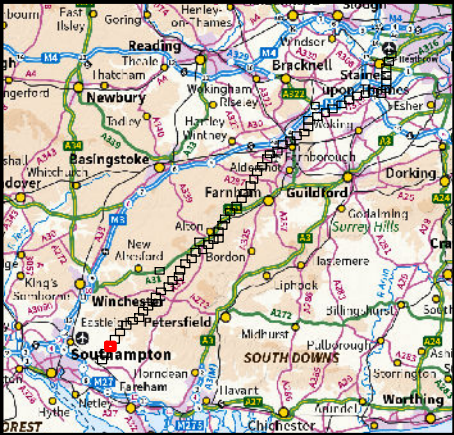
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- 2) At narrow working (NW) locations, the width of working and therefore the extent of potential woodland removals would be restricted to the widths annotated on this plan in accordance with the relevant NW commitment in Chapter 16 of the ES (**Application Document APP-056**).
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- 5) Where narrow sections of the Order Limits follow existing access tracks, roads or other hard-standings outside the Limits of Deviation, it has been assumed that there would be no woodland removal.



**Legend**

- Order Limits
- Hedge crossing points
- Potential removal of woodland to facilitate construction

**Notes:**

- 1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.
- 2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.
- 3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.
- 4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).
- 5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.
- 6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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**Project**  
 Southampton to London Pipeline Project

**Drawing title**  
TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN

Drawing Status	For issue
Scale	1:5,000 @ A3 DO NOT SCALE
Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111118
Drawing number	Figure LV.1.14.1 Sheet 3 of 62
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For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would be removed in order to indicate the worst case, with the following exceptions:

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- 2) At narrow working (NW) locations, the width of working and therefore the extent of potential woodland removals would be restricted to the widths annotated on this plan in accordance with the relevant NW commitment in Chapter 16 of the ES (**Application Document APP-056**).
- 3) A maximum 10m working width would be utilised when crossing through boundaries between fields where these include hedgerows or trees, in accordance with Commitment O1 of Chapter 16 of the ES (**Application Document APP-056**).
- 4) It has been assumed that there would be no hedgerow or woodland removal in the areas of proposed hedgerow infilling, tree planting, bat boxes, great crested newt receptor areas or, areas of good practice habitat measures (set out in Commitment G53 of Chapter 16 of the ES (**Application Document APP-056**)), shown on Figure 7.5 (**Application Document APP-061**).
- 5) Where narrow sections of the Order Limits follow existing access tracks, roads or other hard-standings outside the Limits of Deviation, it has been assumed that there would be no woodland removal.

Section A

Hedgerow HCX 037

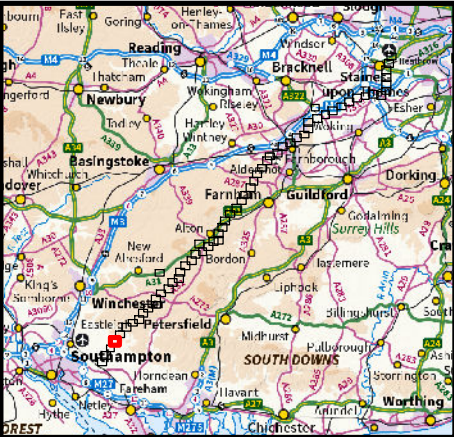
Hedgerow HCX 035

Hedgerow HCX 036

Hedgerow HCX 034

Hedgerow HCX 033

Hedgerow HCX 032



- Legend**
- Order Limits
  - Hedge crossing points
  - Potential removal of woodland to facilitate construction

**Notes:**

- 1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.
- 2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.
- 3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.
- 4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).
- 5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.
- 6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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**Project**  
 Southampton to London Pipeline Project

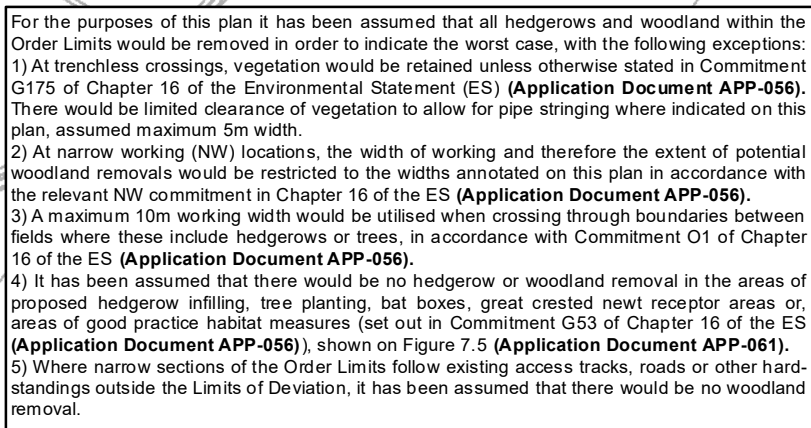
**Drawing title**  
TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN

Drawing Status	For issue
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Jacobs No.	B2325300
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111118
Drawing number	Figure LV.1.14.1 Sheet 4 of 62
Rev	0

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0 0.05 0.1 0.2 Kilometres

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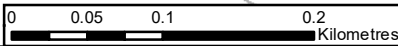
Hedgerow  
HCX 041

Hedgerow  
HCX 040

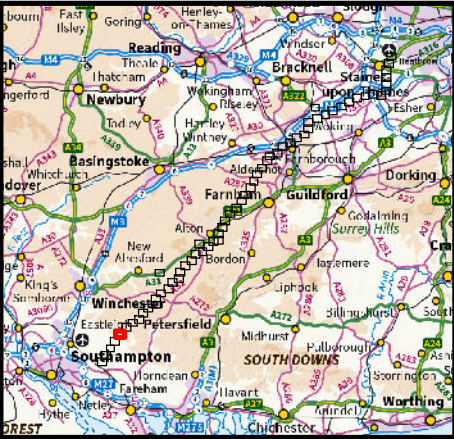
## Section A

Hedgerow  
HCX 039Hedgerow  
HCX 038

Hedgerow  
HCX 037



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### Legend

### ☐ Order Limits

- \* Hedge crossing points

Notes:

- 1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.
- 2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.
- 3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.
- 4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).
- 5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.
- 6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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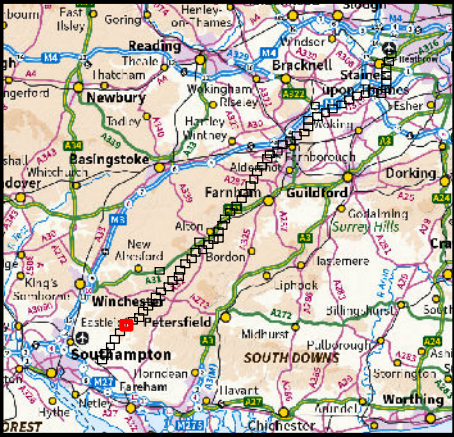
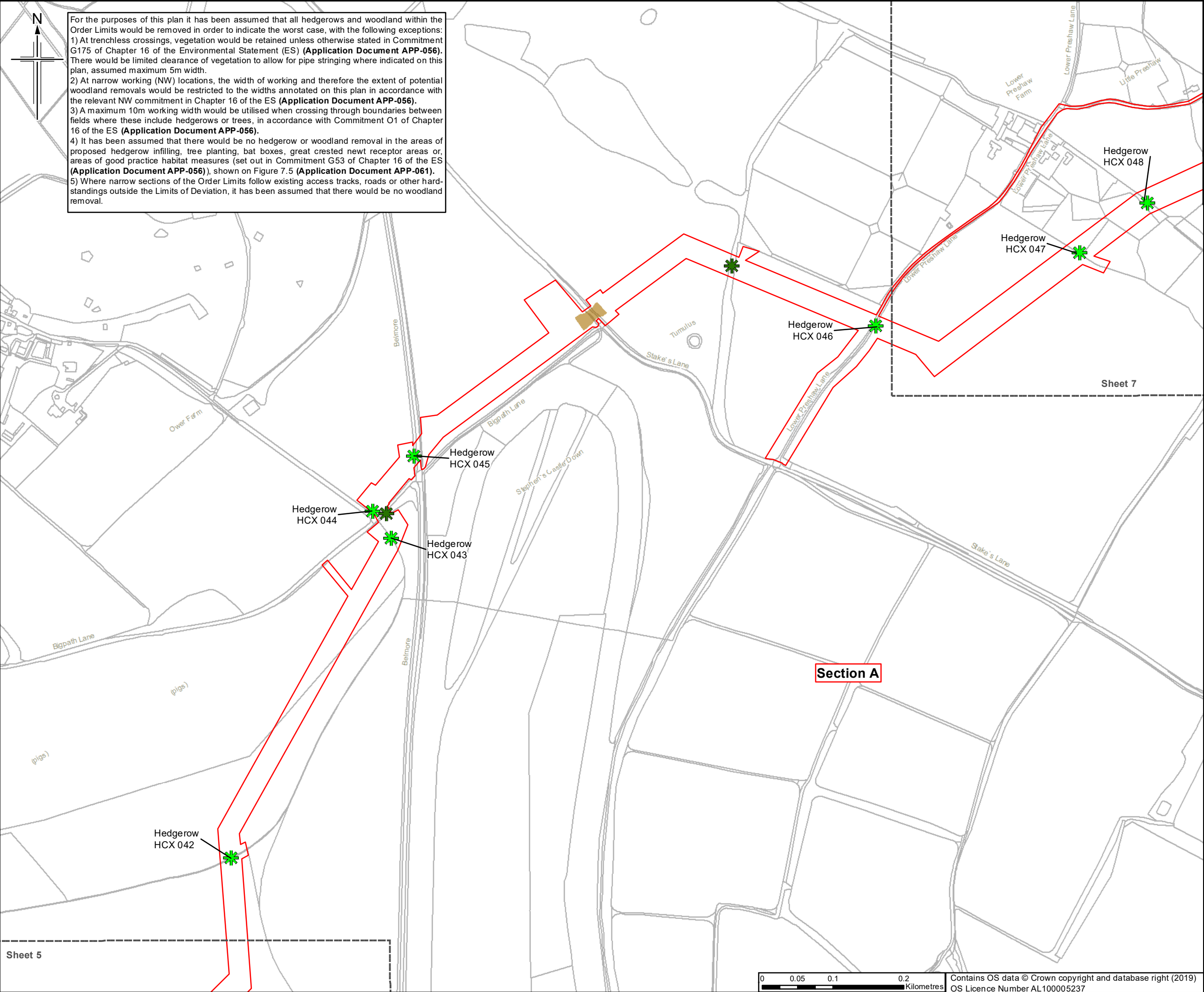
Drawing title

TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN

Drawing Status		For Issue	
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Jacobs No.	B2325300		
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111118		
Drawing number	Figure LV.1.14.1 Sheet 5 of 62		Rev 0

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**Legend**

- Order Limits
- Trenchless crossing
- Hedge crossing points
- Potential removal of woodland field boundary to facilitate construction (restricted to 10m in accordance with Commitment O1)

**Notes:**

1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.

2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.

3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.

4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).

5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.

6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.


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Project  
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Drawing title  
**TREE AND HEDGEROW  
WORST CASE REMOVAL PLAN**

Drawing Status  
**For issue**

Scale  
**1:5,000 @ A3 DO NOT SCALE**

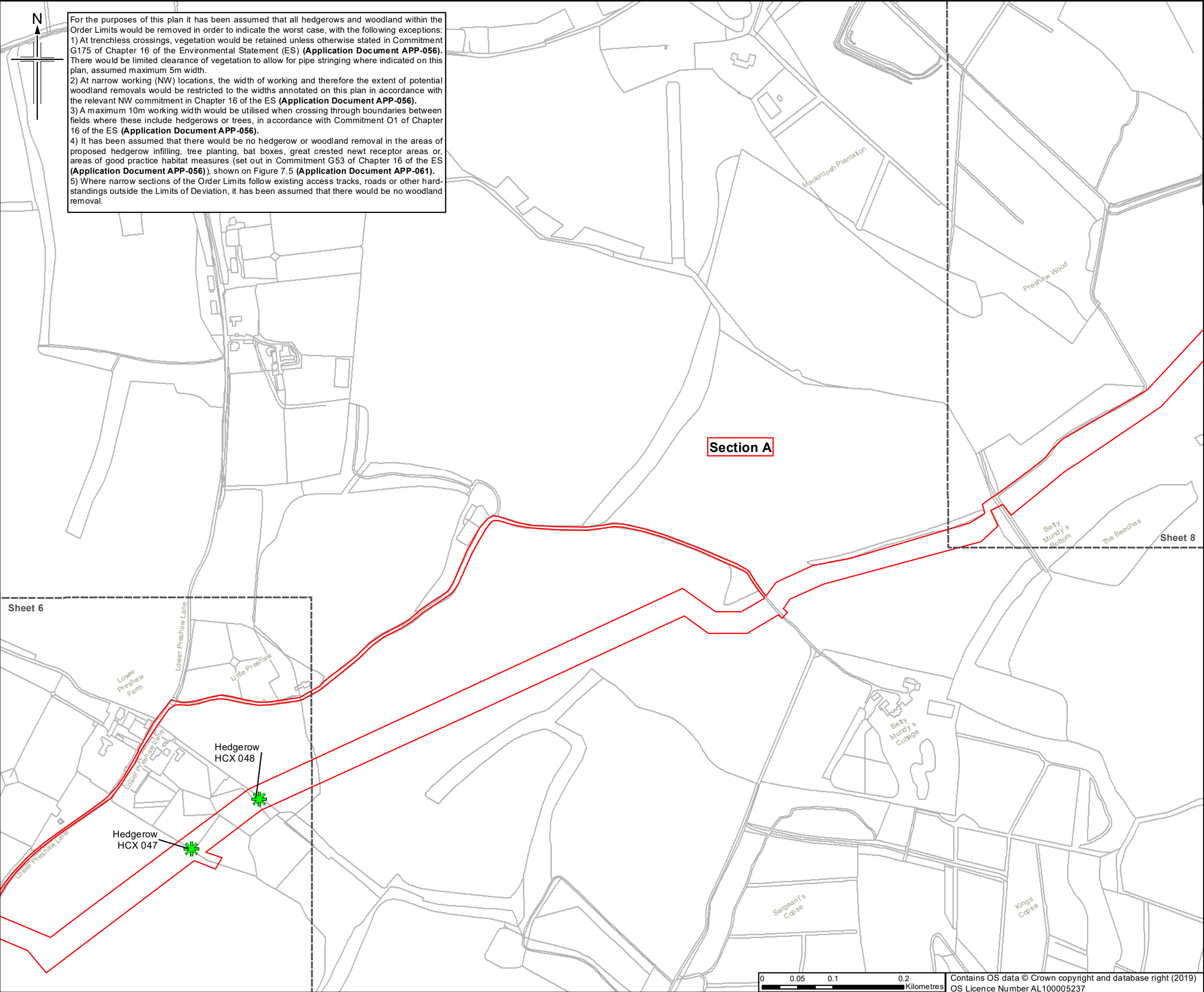
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Drawing number  
**Figure LV.1.14.1 Sheet 6 of 62**

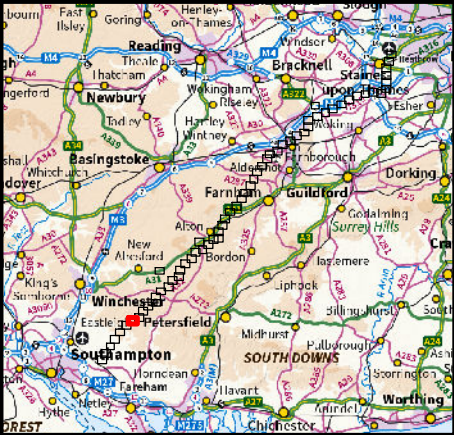
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For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would be removed in order to indicate the worst case, with the following exceptions:

- 1) At trenchless crossings, vegetation would be retained unless otherwise stated in Commitment G175 of Chapter 16 of the Environmental Statement (ES) (**Application Document APP-056**). There would be limited clearance of vegetation to allow for pipe stringing where indicated on this plan, assumed maximum 5m width.
- 2) At narrow working (NW) locations, the width of working and therefore the extent of potential woodland removals would be restricted to the widths annotated on this plan in accordance with the relevant NW commitment in Chapter 16 of the ES (**Application Document APP-056**).
- 3) A maximum 10m working width would be utilised when crossing through boundaries between fields where these include hedgerows or trees, in accordance with Commitment O1 of Chapter 16 of the ES (**Application Document APP-056**).
- 4) It has been assumed that there would be no hedgerow or woodland removal in the areas of proposed hedgerow infilling, tree planting, bat boxes, great crested newt receptor areas or, areas of good practice habitat measures (set out in Commitment G53 of Chapter 16 of the ES (**Application Document APP-056**)), shown on Figure 7.5 (**Application Document APP-061**).
- 5) Where narrow sections of the Order Limits follow existing access tracks, roads or other hard-standings outside the Limits of Deviation, it has been assumed that there would be no woodland removal.




- Legend**
- Order Limits
  - ★ Hedge crossing points

**Notes:**

- 1) Hedgerows would be reinstated to a similar style and quality to those that were removed. Woodlands would be reinstated to their previous use and where this can't be done due to the restrictions of pipeline easements, native shrub planting would be used as a replacement.
- 2) Please note Article 41 of the draft DCO means that tree felling is only permitted where reasonably considered necessary.
- 3) For the purposes of this plan it has been assumed that all hedgerows and woodland within the Order Limits would potentially be removed, unless stated otherwise in the exceptions listed in the box on this sheet, in order to indicate the worst case.
- 4) The actual extent of hedgerow and woodland removals may be less than the worst case extent indicated on this plan, in accordance with the assumptions set out in Chapter 10 of the Environmental Statement (ES) at paragraph 10.5.1 (**Application Document APP-050**).
- 5) Hedgerows for potential removal are based on those listed in Annex A of Appendix 7.2 of the ES, Hedgerow Factual Report (**Application Document APP-082**), except where confirmed not to be a hedgerow.
- 6) Woodland for potential removal is based upon woodland identified in the Phase 1 Habitat Survey (**Application Document APP-061**) and project aerial survey photography (Cyient, 2018). Individual trees to be potentially removed are not illustrated on this plan.

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Client Esso Petroleum Company, Limited Ermyn House, Ermyn Way, Leatherhead, Surrey, KT22 8UX						
Project  Southampton to London Pipeline Project						
Drawing title <b>TREE AND HEDGEROW WORST CASE REMOVAL PLAN</b>						
Drawing Status <b>For Issue</b>						
Scale	1:5,000 @ A3		DO NOT SCALE			
Jacobs No.	B2325300					
ProjectWise No.	B2325300-JAC-000-ENV-DRG-111118					
Drawing number	Figure LV.1.14.1 Sheet 7 of 62					Rev 0
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