

# Southampton to London Pipeline Project

## Deadline 4

Applicant's Comments on Responses submitted for  
Deadline 3

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## 1 Applicant's Comments on Responses submitted for Deadline 3

Table 1.1: Applicant's Comments on Responses submitted for Deadline 3

REP3-061 - South Downs National Park Authority Deadline 3 Submission		
Para Ref	Point Raised	Applicant Response to Point Raised:
2.2.10	The SDNPA raised at the Hearing a clarification in respect of British Standard 5837. The applicant stated in the Hearing that they are surveying trees greater than 200mm diameter at breast height whereas British Standard 5837 expects surveys for individual trees of 75mm diameter at breast height and, for woodland, at 150mm diameter at breast height.	<p>1.1 The Applicant has based the tree survey methodology on that laid out in Section 4.4 Tree Survey and Section 4.5 Tree Categorization Method in BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations (British Standards Institution, 2012).</p> <p>1.2 The Applicant's tree survey strategy was laid out in Chapter 4 of Appendix 3: Environmental Proposed Survey Methodology Report of the Scoping Report (<a href="#">AS-019</a>), which stated that trees with a diameter greater than 300mm at breast height would be surveyed. No concerns over the use of this parameter were raised by SDNPA, the Planning Inspectorate or any other local planning authority.</p>



REP3-061 - South Downs National Park Authority Deadline 3 Submission		
Para Ref	Point Raised	Applicant Response to Point Raised:
2.2.10	The SDNPA noted the conflicting, contradictory and confusing principles of tree protection and the fact that the proposals rely on a combination of NJUG Regulations, British Standard 5837 and the applicant's Ancient Woodland Method Statement recently supplied to stakeholders.	<p>1.1 The Applicant has used the tree survey methodology as laid out in in Section 4.4 Tree Survey and Section 4.5 Tree Categorization Method in BS 5837:2012 (British Standards Institution, 2012). This is the recognised standard for tree surveys.</p> <p>1.2 The Applicant has a commitment (G95) to implement NJUG, which is the recognised tree protection guidance for utility projects in the UK. This guidance recommends greater areas of Root Protection when working near to trees than is recommended in BS 5827:2012, and the Applicant considers this would reduce the risk of impacts on trees. This will be secured through DCO Requirement 12 (LEMP). This has been amended at Deadline 4 following the discussions at the Issue Specific Hearings.</p> <p>1.3 There is no specific provision for working adjacent to Ancient Woodland and Veteran Trees in BS 5837:2012, and therefore the Applicant has agreed an appropriate approach with Natural England and the Forestry Commission.</p> <p>1.4 The Applicant believes this provides an appropriate and consistent approach to the protection of trees.</p>
2.2.11	At the Hearing it was indicated that only the Woodland Trust can certify a tree as a veteran tree. However, as a post hearing clarification, the SDNPA wishes to correct the record as this is not the case; the methodology for determining if a tree is veteran is freely	<p>1.1 The Applicant accepts that any individual can have an opinion as to whether a tree is a veteran, and there are several definitions that can be used for this purpose.</p> <p>1.2 The point made at the hearing by the Applicant was a reference to the registering of a tree as veteran on the Ancient Tree Inventory, the single national database for veteran trees. For trees to be listed and included on this database, they must be checked and verified by the Woodland Trust. There is no statutory designation for veteran trees. Therefore, the Ancient Tree Inventory is the only resource available to highlight their presence.</p>



REP3-061 - South Downs National Park Authority Deadline 3 Submission		
Para Ref	Point Raised	Applicant Response to Point Raised:
	available to any competent arboriculturist.	
2.2.11	In SDNPA's view Esso should record and notify the Woodland Trust of any trees that meet the criteria for a veteran tree, and apply the guidance to protect them as set out in Natural England's and the Forestry Commission's joint standing advice entitled: Ancient woodland, ancient trees and veteran trees: protecting them from development. This standing advice should be applied in terms of setting a buffer for identified veteran trees that would be affected by the development, not just those veteran trees within the Order limits.	1.1 The Applicant has agreed the appropriate interpretation of the standing advice entitled 'Ancient woodland, ancient trees and veteran trees; protecting them from development' with Natural England and the Forestry Commission (2018), and this is contained in the Ancient Woodland and Veteran Tree Technical Note ( <a href="#">REP2-061</a> ). This methodology applies a buffer for identified veteran trees both inside and outside the Order Limits.



REP3-039 – Rushmoor Borough Council A site specific outline of a Construction Environmental Management Plan		
Para Ref	Point raised	Applicant response to point raised:
N/A	Suggestions on the items to include in the Applicant's outline CEMP and outline LEMP	1.1 The Applicant has considered Rushmoor Borough Council's suggestions regarding the Outline LEMP and Outline CEMP in the drafting of these documents for submission at Deadline 4 ( <b>Document References 8.50 and 8.51</b> ).



REP3-067 – Michael Francis Accepted at the discretion of the Examining Authority		
Para Ref	Point raised	Applicant response to point raised:
N/A	<p>A. Width of corridor for construction The proposed 30m wide corridor for the pipeline construction (or even the 15m wide corridor also mentioned in the documents) is completely out of proportion for installation of the 300mm diameter pipe.</p> <p>B. Duration for occupation of the park The proposed duration of occupation of the park for the construction of the pipeline in Esso's proposals is one year. This seems completely out of proportion to the work to be done.</p> <p>C. Consideration of trenchless methods</p> <p>Esso in their recent response to queries about use of trenchless methods have apparently dismissed the possibility of trenchless methods after somewhat</p>	<p>1.1 In response to A., the Applicant has in the main responded to the majority of the comments made by Mr Francis in its response at Deadline 3 (<a href="#">REP3-013</a>) to the Issue Specific Hearings on Environmental Matters on 3 December 2019 (ISH2) actions. The Applicant has clarified that there has never been the intention to remove trees or vegetation for the full width, as noted in action point 7, 10 &amp; 11.</p> <p>1.2 The Applicant has committed to supply a Site Specific Plan for the area of Queen Elizabeth Park (QEP) – submitted at Deadline 4 (<b>Document Reference 8.57</b>) – which details how the Applicant intends to work and install the pipe within the park and adjacent areas.</p> <p>1.3 In response to B., this is a heavily vegetated and wooded area, and the Applicant will need to apply measures which are most suited to the specific working area. For this reason, the duration of works is less predictable. It is not appropriate to refer to 'standard' methodologies and timing when referring to installation through this area. Working in and around live trees and vegetation requires sensitivity to limit tree loss and damage to the root structures. This may involve hand digging or similar techniques. The welding of the pipe is less relevant as a time constraint, as in this case the most time-consuming element would be the excavation of the Open Cut. In addition, this statement has assumed that the estimated duration of 12 months stated by the Applicant relates solely to the Open Cut phase of the project in QEP. However, the Applicant was referring to all works proposed in QEP, including the horizontal directional drill (HDD) from Stake Lane and the auger bore under the A325 Farnborough Road.</p> <p>1.4 In response to C., as regards trenchless construction methods, the Applicant would clarify that:</p> <ul style="list-style-type: none"> <li>No account has been made by Mr Francis for those trees within Farnborough Hill School which would need to be removed, along with those in the area of the drill pit</li> </ul>



REP3-067 – Michael Francis Accepted at the discretion of the Examining Authority		
Para Ref	Point raised	Applicant response to point raised:
	<p>cursory analysis. D. Environmental Risk Management Esso states that 'New developments are typically subject to an Environmental, Socioeconomic and Health Impact Assessment process.</p>	<p>in QEP which would also need to be removed. The Applicant's methodology avoids these needing to be removed.</p> <ul style="list-style-type: none"> <li>• Agreed – the Applicant does not intend to move large plant through the park.</li> <li>• Agreed – although spoil would need to be removed for the larger working area required for the drive pit to support the proposal from Mr. Francis.</li> <li>• The programme duration presented as six weeks takes no account of the other activities required to support the HDD proposal such as set up, vegetation clearance, demobilisation and reinstatement in the drill and reception area. It also does not consider the work to complete the HDD from Stake Lane.</li> <li>• The auger bore is not a larger sleeve as the fuel pipe will be used.</li> <li>• A reduction in the small number of bends has little bearing on the pipeline's performance.</li> <li>• HDD mobilisation costs are not a factor to be considered as the equipment required for the Applicant's proposal is already in use locally.</li> <li>• The Applicant cannot identify any information from Mr Francis to support how this method would minimise carbon costs.</li> <li>• Capital cost is not the Applicant's main consideration in this location.</li> </ul> <p>1.5 It should be noted that the Applicant has in excess of 40 trenchless crossings along the 97km route, so is aware of the methodologies that need to be used for this technique and has utilised trenchless methods leading up to and away from QEP. The Applicant has however already provided comments on the use of a trenchless technique under QEP (<a href="#">REP3-013</a>).</p>





<b>REP3-067 – Michael Francis Accepted at the discretion of the Examining Authority</b>		
<b>Para Ref</b>	<b>Point raised</b>	<b>Applicant response to point raised:</b>
		1.6 In response to D, the Applicant considers that the comprehensive, rigorous and transparent approach taken at every step of the process is consistent with the spirit of the corporate policies on environmental matters.



REP3-056 - Heronscourt and Colville Gardens Residents Associations' Summary of Oral Submissions put at Issue Specific Hearings 2 and 3 held on 3 and 4 December 2019		
WR Para Ref	Point raised	Applicant response to point raised:
N/A	The Heronscourt and Colville Gardens Residents Association have raised a number of points about the alternative route and some additional points about their concerns about the installation of the pipeline.	1.1 The Applicant has addressed the routing queries in response to the Hearing Actions 26-32 ( <a href="#">REP3-013</a> ). A Site Specific Plan ( <b>Document Reference 8.58</b> ) is being prepared for this area which the Applicant expects will address the points raised regarding how construction would be carried out through the area.



**REP3-055 - Gateley Hamer on behalf of MHA Fleet Limited (MHA) Written summary of oral submission at the Compulsory Acquisition Hearing 1 held on 27th November 2019**

WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>Severance of site entrance</b> Concerns over site severance and access issues</p>	<p>1.1 The Applicant is in detailed discussion with MHA and its advisors regarding the development of both schemes. The Applicant understands the importance of maintaining access to the MHA development site during construction of the pipeline, in particular during the installation across the MHA site entrance. The site would not be severed, and the Applicant would maintain vehicular access at all times. The Applicant will continue its dialogue with MHA as the respective schemes develop on matters such as timings and traffic management, regardless of the final route being either on its land or on the adjacent Beacon Hill Road.</p>
	<p><b>Permanent sterilisation of site frontage</b></p>	<p>1.1 The Applicant does not consider that the construction of the project would prevent or delay the build out of the MHA scheme or prejudice the use or the development of the MHA scheme when built. MHA's current proposal can be built out without any detrimental impact from the pipeline route.</p> <p>1.2 Subject to the final alignment of the pipeline at this location, the terms of any voluntary agreement would restrict the construction of permanent structures within the pipeline easement (3m either side of the pipeline) for safety and to maintain access for future pipeline maintenance requirements. However, all other MHA development proposals identified at the current time, including hard and soft landscaping, security fencing, site signage and utility crossings, could be implemented as planned.</p>



REP3-055 - Gateley Hamer on behalf of MHA Fleet Limited (MHA) Written summary of oral submission at the Compulsory Acquisition Hearing 1 held on 27th November 2019		
WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>Confirm what information the Applicant possesses regarding apparatus in the Highway and provide a commitment regarding the possible pipeline alignment</b></p>	<p>1.1 The Applicant has limited buried service data available for this locality but has programmed intrusive utility trial trenching in the highway and adjacent to the MHA site to obtain specific buried services data and physical locations in the first quarter 2020. Once obtained, the Applicant will continue its dialogue with Hampshire County Council Highway Authority to determine a suitable alignment for the pipeline which it is hoped can be identified and a commitment provided before the close of the examination.</p>



**REP3-051 - Addleshaw Goddard LLP on behalf of Independent Educational Association Limited (IEAL) Written summary of the Oral Representations made by the IEAL at the Issue Specific Hearing 4 held on 4 December 2019**

WR Para Ref	Point raised	Applicant response to point raised:
12	<p><b>Listed status of the 1930's bungalow on the St James School campus</b></p> <p>The IEAL notes that during the hearing Mr Hodkin, on behalf of the Applicant, stated that he believed that the Alternative Route would require a listed building to be demolished. The IEAL infers this reference was to a bungalow at the south west corner of the School site. As a post-meeting note, the IEAL submits that the bungalow itself is not itself listed and has no historic value. In fact, it is in a state of significant dilapidation and is not in any way an impediment to the Alternative Route being brought forward.</p>	<p>1.1 The entry on the Spelthorne BC listed Building Register has three entries that relate to St James School (previously known as St David's Girls School or the Welsh School).</p> <p><b>St David's Girls School (now St James Senior Boys School) Church Road, Ashford. Added to the list on 02.02.1982 Grade II Group Value (GV)</b></p> <p>1.2 1857. Architect Henry Clutton. Gothic, partly Ruskin inspired. Main block two and a half storeys ragstone with Bath stone dressings and quoins. Plinth, first floor cill band, cornice over first floor, steep gabled coping to dormers. Slate roof. Two front chimneys with shaped stone stacks. Central cross gabled clock and belfry. Ten bays to centre with gabled 2-light dormers; triple cusped lancets below, 3 central bays with variant Gothic glazing and a parapeted square oriel bay on first floor. Flanking lower gabled breaks with stepped windows to gable ends and 4 dormers to returns; the west return has a pointed relieving arch on first floor to 3 windows with shaped upper corners. Main block has central moulded arch doorway with nook shafts and tympanum with Prince of Wales' Feathers. Doorway flanked by smaller windows with crocketed pinnacle shafts. Lower service ranges and 2 courtyards to rear. Later gym-block to west not of special interest.</p> <p><b>Chapel at St David's Girls School (now St James Senior Boys School) Church Road, Ashford. Added to the list on 02.02.1982 Grade II Group Value (GV)</b></p> <p>1.3 C1857 or later. Architect Henry Clutton. To east of main block. Linked by covered passage with cusped windows. Ragstone with tiled roof. Slight set backs on either side of centre part. Three bays with square headed perpendicular-style tracery. Traceried oculus to south.</p>



		<p><b>Railings and Gates Lodge to St David's Girls School Church Road, Ashford. Added to the list on 02.02.1982 Grade II Group Value (GV)</b></p> <p>1.4 C1857 or later. Architect Henry Clutton. To east of main block. Linked by covered passage with cusped windows. Ragstone with tiled roof. Slight set backs on either side of centre part. Three bays with square headed perpendicular-style tracery. Traceried oculus to south.</p> <p>1.5 The Applicant understands that the bungalow itself is not a building of specific heritage value. However, the bungalow was present at the time that the listing was confirmed in 1982, and therefore is afforded protection as a curtilage listed building.</p> <p>1.6 The Applicant has provided written feedback to the school detailing the reasons why the alternative route did not perform well, these are:</p> <ul style="list-style-type: none"><li>a. Unlike the holiday working commitment that we can offer with our proposed route, this alternative route has increased engineering complexity that makes it likely our work would extend into term time and we cannot give any assurance that we could complete construction within the school's summer holiday.</li><li>b. The route conflicts with existing planning permission for the sports hall and boarding house.</li><li>c. It would require the demolition of a residential property, which lies within the curtilage of a listed building and which is in direct conflict with an existing project commitment.</li><li>d. The route and installation would be closer to the core operating area of the school.</li><li>e. The route is closer to the listed building and buildings in its curtilage.</li><li>f. The route poses significantly higher construction risks because of the ground conditions and existing utilities in this corridor.</li></ul>
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REP3-033 – Gateley Hamer on behalf of Surrey Heath Borough Council Deadline 3 Submission - Comments on Compulsory Acquisition Objector Schedule submitted at Deadline 2		
WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>Terms of Voluntary Agreement</b></p> <p>The Applicant has not responded on the terms of the draft option and easement proposed by Gateley Hamer</p>	<p>1.1 The Applicant and Gateley Hamer, following discussions on the 14 and 15 January 2020, have agreed the drafting of the voluntary agreements.</p>
	<p><b>Rejection of Councils mitigation proposal</b></p> <p>The applicant has without justification rejected the mitigation proposals of the council</p>	<p>1.1 The Applicant has carefully considered the financial mitigation requests put forward by the council on the basis of its concerns regarding perceived long-term impacts to the SANG. The Applicant responded to the council on the 13 November 2019 setting out in detail why it was unable to accept the council's calculation of financial mitigation requested. The Applicant's justification for the rejection of the council's financial mitigation proposals, including a payment of £144,743, is set out below:</p> <p><i>'DCOs are determined in accordance with National Policy Statements rather than the local plan. With regards to the protection of the SPA, the legislative requirements for assessment are set out in the Conservation of Habitats and Species Regulations 2017 and the appropriate nature conservation body that the Examining Authority is required to consult is Natural England, which has not raised an objection to our proposals.'</i></p> <p><i>'We would like to reiterate that we are confident in our HRA and its conclusions and there is no justification for requiring additional mitigation or compensation payments relating to</i></p>



REP3-033 – Gateley Hamer on behalf of Surrey Heath Borough Council Deadline 3 Submission - Comments on Compulsory Acquisition Objector Schedule submitted at Deadline 2		
WR Para Ref	Point raised	Applicant response to point raised:
		<p><i>the SANG/SPA. Further explanation is given in our response to relevant representations (Representations Document REP1-003).'</i></p> <p><i>'Policy NMR6 of the South East Plan 2009 (abolished apart from policy NMR6) clearly sets out the roles of Natural England, which is the deciding authority on the required mitigation, while the local authority makes sites available and provides a planning framework.'</i></p> <p><i>'It has been accepted by SHBC that the pipeline itself will have no long-term impact on the SANG or the SPA. We maintain that the impacts from the compound's location on the SANG will be limited to the time (approximately one year of intermittent use) that it is required to enable the works and complete full reinstatement.'</i></p> <p>1.2 It is clear, therefore, that the decision to reject the council's request for a large payment was not taken without justification, as alleged, but was supported by appropriate reference to relevant policy.</p>
	<p><b>Alternatives to Compulsory acquisition</b></p> <p>The Applicant has failed to demonstrate that it has considered alternatives</p>	<p>1.1 The Applicant has liaised with the council throughout the development of the scheme and since December 2017. At no time during the statutory or non-statutory consultation periods did the council reject any of the Applicant's routeing or construction proposals, offer alternatives or object to the routeing and construction proposals in the locality at St Catherines Road. The Applicant first issued an offer of terms for a voluntary agreement in January 2019, but despite reasonable efforts by the Applicant to progress matters and negotiate terms, the council declined to enter into discussions and did not appoint an agent to negotiate on its behalf until October 2019. The Applicant remains willing to discuss and negotiate appropriate terms with the council's agent Gately Hamer.</p>





**REP3-059 – Nick Jarman on behalf of Neighbours and Users of Queen Elizabeth Park Written summaries of oral submissions at the Open Floor and Issue Specific Hearings, Comments on responses to the ExA's Written Questions and Comments on responses submitted for Deadline 2**

WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>2.2, 2.2.1</b> Suggestion to use trenchless installation to bore under both QEP and the A325 Farnborough Road in a single crossing, with the reception pit hosted within the grounds of Farnborough Hill School.</p>	<p>1.1 In the main, the Applicant has answered the majority of issues raised by the written response in its submission at Deadline 3 (<a href="#">REP3-017</a>). However, the following points do require clarification by the Applicant:</p> <p>1.2 In response to 2.2, '<i>...understand that the school is willing to host...</i> [During Issue Specific Hearing 2, it was put to the Applicant that Farnborough Hill School is a 'willing host' of the construction works]'. The Applicant wishes to clarify that, whilst Farnborough Hill School has agreed to the pipeline being installed within its grounds, and to that extent it is a 'willing host', it should not be taken from this that the school is a 'willing host' to any and all construction activities within its grounds. The school has sought to minimise the extent of the works within its boundary, resulting in a number of measures being agreed by the Applicant to date. Firstly, the removal of a proposed storage compound (the removal of which is requested in the school response to the Design Refinement Consultation). Secondly the School has sought restrictions on the timing and extent of works within its grounds, with works focused outside of term time, and works to be located to the boundary to prevent fragmentation of its grounds. Finally, the route thorough the grounds is subject to narrow working for the entire length.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>2.2.2.</b> Suggestion to shorten or remove the trenchless crossing from Stake Lane into QEP to reduce the stringing area in the Park.</p>	<p>1.1 In response to 2.2.2, reducing the length of the trenchless installation (Stake Lane to the allotments), and then replaced with Open Cut from Prospect Road and into Queen Elizabeth Park (QEP). This would require use of the allotments for both Open Cut installation and the stringing area (for the shortened trenchless section) to occupy the allotments. Setting up a string within the allotment and the southern end of the park would be likely to result in considerable disruption to the allotment and would still impact on the park, with tree removal required in the southern corner of the park (where there is a prominent willow tree). The location of the working area could impact on a willow tree which is likely to need to be removed. Deliveries would still need to arrive via Cabrol Road and into the car park of QEP, resulting in the loss of the car park during construction.</p> <p>1.2 The Applicant has considered the proposal to remove the HDD from Stake Lane to QEP and replace it with an Open Cut. The following is how this could feasibly be completed:</p> <ul style="list-style-type: none"> <li>• This would require streetworks along the length of Stake Lane. Although there is some scope to utilise some of the verge on the southern side of the road, it does have a limited width and contains a number of existing services including the existing fuel line and the existing gas line.</li> <li>• The Applicant would have to undertake the works across Prospect Road using a closure of the road, due to the road being a single lane as it passes beneath the railway. There is insufficient room to install a traffic management system which would ordinarily allow through traffic.</li> <li>• The Open Cut would then pass close to the existing residential property (bungalow). Due to the limited width available and the proximity of the exiting fuel lines, there is</li> </ul>



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WR Para Ref	Point raised	Applicant response to point raised:
		<p>the risk that potentially significant temporary works would be required to protect the property.</p> <ul style="list-style-type: none"> <li>• Open Cut would then continue into the allotment area. Access would be via the allotments but would result in the majority of the allotment area becoming unusable for the duration of the works.</li> <li>• Exiting the allotments, the Open Cut would emerge into the southern corner of QEP. This is a heavily vegetated area, so would require significant vegetation clearance along the profile of the Open Cut, circa 10m.</li> <li>• The Order Limits along this section are approximately 15m wide. The Open Cut would then follow the profile through the play area and continue along the profile that Applicant has proposed adjacent to the existing fuel lines in the 10m width as committed.</li> </ul> <p>1.3 It should be noted that there would still be tree loss. The impact on the residents of Stake Lane would be greater (due to the streetworks in Stake Lane). The works to cross Prospect Road would result in an impact on the wider community and sever the access beneath the railway while the works are undertaken. Users of the allotments, any sheds and mature planting would be impacted, and the allotment reinstatement could take several seasons to re-establish. It should be noted that the Prospect Road allotments has 39 plots, which is approximately 10% of allotment space in Rushmoor Borough.</p>



**REP3-059 – Nick Jarman on behalf of Neighbours and Users of Queen Elizabeth Park Written summaries of oral submissions at the Open Floor and Issue Specific Hearings, Comments on responses to the ExA's Written Questions and Comments on responses submitted for Deadline 2**

WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>3.1. Open Floor Hearing (Monday 25th November)</b></p> <p><b>Veteran Trees</b></p> <p><b>Request for the Applicant to commit to avoiding installation within 5 metres of the two veteran trees which have now been formally recognised by the Woodland Trust in QEP.</b></p> <p><b>Haul Route for Auger Boring Pit</b></p> <p><b>Assertion that QEP is not a suitable place for a haul route and that there should be an alternative route found.</b></p>	<p>1.1 Veteran Trees – The Applicant's methodology for working near veteran trees as explained in the Technical Note: Ancient Woodland and Veteran Trees (<a href="#">REP2-061</a>), has been written with consideration for the Standing Advice entitled: Ancient woodland, ancient trees and veteran trees; protecting them from development and agreed with Natural England and the Forestry Commission and would be applicable to the veteran trees in QEP (<a href="https://www.gov.uk/guidance/ancient-woodland-and-veteran-trees-protection-surveys-licences">https://www.gov.uk/guidance/ancient-woodland-and-veteran-trees-protection-surveys-licences</a>).</p> <p>1.2 Haul route – The Applicant would like to reiterate that the 15m width is divided as 5m for the HDD string and 10m for the Open Cut. All plant and materials would be kept within the 10m for the Open Cut works and would not be utilised as a haul route to supply the auger area. The auger area would be serviced off the A325 by a dedicated access point. This has been agreed in principle with Surrey.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>3.2. Issue Specific Hearings (3rd and 4th December)</b></p> <p><b>Trees</b></p> <p>Assertion that there were errors in the Schedule of Notable Trees submitted as part of the Application.</p>	<p>1.1 In response to 3.2 Trees, the Applicant explained that an arboricultural walkover survey was undertaken of the entire 97km and has been followed by a programme of detailed BS 5387 compliant surveys. This programme is ongoing and the survey for Queen Elizabeth Park will be submitted at Deadline 4 (<b>Appendix 1 and Figure 1</b>).</p>
	<p><b>4.1.1.</b></p> <p>Assertion that the route for the replacement pipeline is impractical due to the location the 'Fairy Tree' (197341/T42) and other notable trees within the order limits.</p>	<p>1.1 In response to 4.1.1, the Applicant's methodology for working near veteran trees has been agreed with Natural England and the Forestry Commission (<a href="#">REP-061</a>). This document explains the methodology which would enable the pipeline to be installed near to veteran trees. This would include the 'Fairy Tree' (T42).</p>
	<p><b>4.1.2</b></p>	<p>1.1 In response to 4.1.2 Technical Note, the Technical Note: Ancient Woodland and Veteran Trees (<a href="#">REP-061</a>) Table 5.2 provides a list of veteran and potential veteran trees that the</p>



**REP3-059 – Nick Jarman on behalf of Neighbours and Users of Queen Elizabeth Park Written summaries of oral submissions at the Open Floor and Issue Specific Hearings, Comments on responses to the ExA's Written Questions and Comments on responses submitted for Deadline 2**

WR Para Ref	Point raised	Applicant response to point raised:
	<p>Request for the 'Fairy Tree', following its classification as a veteran tree, to be treated with maximum care.</p>	<p>mitigation hierarchy would be applied to based on the current project assumptions. The Fairy Tree (T42) was not designated on the Woodland Trust Ancient Tree Inventory as a veteran tree until November 2019, which was after the Technical Note had been produced. The methodology outlined in the Technical Note would apply to all veteran trees at the time of construction.</p> <p>1.2 In response to 4.1.2 transcript, for clarification, the ISH transcript states: <i>'MR NEWMAN: The strategy or methodology we have set out in our technical note, which was submitted, will come into play in exactly that circumstance. Where we have veteran trees, the strategy quite clearly lays out how we approach to them, so that we do not have an impact on that tree. We will follow that strategy and not have an impact on that tree.'</i></p> <p>1.3 The Technical Note: Ancient Woodland and Veteran Trees (<a href="#">REP-061</a>), Table 5.1, states that for Veteran Trees that cannot be avoided, B3 methodology would be utilised, which is: <i>'Where not practicable to exclude the pipeline trench from within the RPA of Veteran or potential veteran trees, site-specific measures that would be employed to mitigate the effects on the RPA, for example, hand digging/ vacuum excavation under arboricultural supervision. These would be recorded in a method statement.'</i></p> <p>1.4 This methodology has been produced by experienced pipeline engineers and arboriculturalists. It has been approved by Natural England and the Forestry Commission, and therefore the Applicant does not believe there is evidence to support the claim that the risk of damage to the tree would be too great.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>4.1.3.</b> Assertion that the updated Schedule of Notable Trees has an inadequate level of detail.</p>	<p>1.1 In response to 4.1.3 Appendix 10.2, a full BS 5837 compliant survey of the trees that may be impacted by the project in QEP has been submitted at Deadline 4 and used to inform the design (see <b>Figure 1</b>).</p>
	<p><b>4.1.4</b> Suggestion that the approach for navigating trees in Turf Hill contradicts what the Applicant has said with regards to QEP.</p>	<p>1.1 In response to the Turf Hill reference in 4.1.4, this reference appears to be quoting a previous response from the Applicant in relation to Turf Hill and not QEP. The woodland at Turf Hill has been surveyed and is of a very different nature to that of QEP. Therefore, the Applicant does not believe this is a true statement. The Applicant has confirmed that the stringing out would be possible between the trees, and therefore would not entail removal of a complete 5m strip of trees in QEP (<a href="#">REP3-013</a>)</p>
	<p><b>4.1.5</b> Concerns about comments from the Applicant regarding Rushmoor Borough Council's</p>	<p>1.1 In response to 4.1.5, the Applicant has met with Officers and Members from Rushmoor Borough Council on a number of occasions to discuss the project's impacts on QEP, including several site visits. Mr Jarman has not been in attendance at these meetings. These included the following:</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	support for 'opening up the park'.	<ul style="list-style-type: none"> <li>• Notes from site meeting on 18 October 2018 record that the Borough Biodiversity Officer '<i>considers that the woodland is in poor ecological condition and would benefit from the removal of rhododendron and secondary woodland thinning</i>'.</li> <li>• In a letter sent to the Applicant on 16 April 2019, the Borough Biodiversity Officer stated that she would expect contributions to ensuring the woodland in the park would be better over time than its current condition. This included a request for: '<i>Restoration of any tree removed or establishment of alternative habitat</i>'.</li> <li>• At a meeting on 9 May 2019, the Borough Biodiversity Officer stated she saw '<i>green infrastructure and biodiversity opportunities at this site. For example, rhododendron removal or tree thinning could lead to a better woodland structure and species diversity. And reiterated that the woodland needs significant management work and ideally a 10 year management plan to bring it to a better condition</i>'.</li> <li>• In addition, the Biodiversity Officer stated that '<i>appropriate reinstatement planting would need to be agreed with her. And suggested that she might favour reinstatement of footpath verges as species-rich grassland as opposed to scrub or woodland.</i>'</li> <li>• At a site meeting on 10 October 2019, Cllr Mike Smith informed the Applicant that he had received a number of complaints from his constituents about the overgrown nature of the vegetation either side of the cycle path making it intimidating to use. The vegetation either side of the path is largely a mix of dense rhododendron, unmanaged self-seeded trees and bramble.</li> </ul> <p>1.2 At the same meeting, Cllr Marina Munro advised that there had been a significant amount of 'antisocial youth behaviour' in the dense vegetation adjacent to the cycle path including</p>





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WR Para Ref	Point raised	Applicant response to point raised:
		<p>the regular vandalism of the lights to create a dark area. This has generated concerns about safety for path users.</p> <p>1.3 In response to these discussions, the Applicant has offered that as part of the reinstatement it would reinstate the cycle path as a more attractive user-friendly woodland trail which would consist of a range of planting to create a greater habitat mix, encouraging more biodiversity. The Applicant has also committed to undertake a programme of rhododendron clearance in the wider park to help the council in its plans to open up the park. The Applicant believes these actions are in keeping with the discussions with Rushmoor Borough Council.</p> <p>1.4 In response to the ExA's First Written Questions Landscape and Visual (LV) (2 of 2) (<a href="#">REP2-046</a>), the Applicant does not believe this is a misrepresentation. The Applicant does not state that it is committed to narrow working for the entire extent of the park. The nature of the auger bore work prevents using narrow working, and this is also the case in the east of the park for the HDD working area and the compound area.</p> <p>1.5 In response to WQ QE.1.5 Narrow Working, the extent of the narrow working commitment NW17 is clearly shown on the General Arrangement Plans 34 &amp; 35 (<b>Document Reference 2.6 (4)</b>).</p> <p>1.6 In relation to the marked area on the accompanied site inspection, due to the dense vegetation at the location of the auger bore site it was not practical to place markers that could be clearly seen. However, the wider extent was marked out by two of the Applicant's personnel who stood at the full extent of the Order Limits in this location to demonstrate the full width being greater than 30m.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>4.2.2.</b> Concern that the Applicant will have to create a new access route into the park from the A325, leading to the need for street works and removal of trees within the park.</p>	<p>1.1 In response to 4.2.2, the Applicant has included the required access from the A325 Farnborough Road at Deadline 3 following discussions with Hampshire County Council as the relevant Highway Authority (Work No. 8CZ). This is a new access point which has been added to Schedule 1 of the draft DCO (<b>Document Reference 3.1 (5)</b>).</p>
	<p><b>4.3.1</b> OP05 describes the commitment to reinstate the Cabrol Road play area. concern that all occurrences of 'will' in this paragraph have been changed to 'would'</p>	<p>1.1 In response to 4.3.1, the change of 'will' to 'would' is for grammatical correctness. Stating the Applicant will do something, implies that development consent has already been granted. The use of 'would' is correct to indicate that this is an action the Applicant will take, should development consent be granted; and is consistent with the Environmental Statement and other application documents. The Applicant does not accept that the action is weakened as it is secured as a commitment.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p><b>4.4.3</b></p> <p>Assertion that neither Cabrol Road, nor any house or garden on it, are within the Order Limits.</p> <p>Concern that the Applicant is claiming that the car park will be available for visitors during the works, even though it will be closed.</p>	<p>1.1 In response to 4.4.3 Cabrol Road, the Applicant accepts that this is a wording error and that Cabrol Road is adjacent to, but not within, the Order Limits.</p> <p>1.2 In response to 4.4.3 QEP Car Park, the reference to the Queen Elizabeth Park car park is a description of the current situation regarding parking provision.</p>
	<p><b>4.5.3</b></p> <p>Concern that the flexibility offered within the definition of 'maintain' within item 6.21 of the Explanatory Memorandum means that the Applicant may return to the park and remove more trees within the order limits at any time in the lifetime of the</p>	<p>1.1 In response to 4.5.3 Order Limits, it is correct that the Applicant requires a level of flexibility to maintain the authorised development, so that it can respond in an appropriate and agile way to the range of maintenance activities that may need to be undertaken during the operational lifetime of the replacement pipeline.</p> <p>1.2 However, the Applicant does not agree that this flexibility is without limits, as alleged, or that trees within the Order Limits would never be safe.</p> <p>1.3 In the context of any works to trees, the Applicant's power to maintain the authorised development must necessarily be read alongside article 41 (felling or lopping) of the draft DCO (<b>Document Reference 3.1 (5)</b>), which confers a power to undertake works to trees and shrubs (and their roots), but also defines the limits of that power.</p>



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WR Para Ref	Point raised	Applicant response to point raised:
	<p>pipeline, with no notice, consultation or approval.</p>	<p>1.4 Specifically, that power may only be exercised if the Applicant <i>'reasonably believes it to be necessary to do so to prevent the tree, shrub or roots from (a) obstructing or interfering with the construction, maintenance or operation of the authorised development or any apparatus used in connection with the authorised development; or (b) constituting a danger to persons using the authorised development.'</i> The Applicant is, therefore, only entitled to exercise the power for a specific purpose. The inclusion of the words <i>'reasonably believes'</i> adds objectivity to the exercise of the power. It is not enough for the Applicant to believe that the exercise of the powers is necessary; that belief must be reasonable and must be based on objective factors capable of clear justification.</p> <p>1.5 Further, the exercise of the power would be constrained in different ways, depending upon engineering, ecological and other factors, as between construction of the authorised development, on the one hand, and maintenance of the authorised development, on the other. For example, it may be reasonably necessary to remove or carry out other works to a tree during construction, where the Applicant would need to ensure that the land is capable of accommodating the installation of the pipe, but not in order to maintain the pipe, where engineering requirements at ground level are likely to be very different.</p> <p>1.6 Article 41(2) also imposes further limitations on the exercise of the Applicant's powers in relation to trees. It provides that, <i>'in carrying out any activity [under article 41], the undertaker must not cause unnecessary damage to any tree ... and must pay compensation to any person who sustains any loss or damage arising from such activity for that loss or damage.'</i></p> <p>1.7 The Applicant would not therefore be entitled to return to the park and carry out works to trees within the Order Limits in an uncontrolled manner. The controls built into the</p>



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WR Para Ref	Point raised	Applicant response to point raised:
		<p>provision, which are well precedented, place appropriate checks and balances on the exercise of the power.</p> <p>1.8 It is also posited that the Applicant may return to the park with no notice. However, the Applicant has previously confirmed that, where it requires access to land to maintain the authorised development, it would only do so upon giving reasonable notice – which means at least 2 weeks' prior notice – of its intention therein (except in the event of an emergency). This is a condition of the land agreements which the Applicant is seeking to secure across the route of the project.</p> <p>1.9 The exercise of the power in article 41 is not, however, subject to prior consultation or approval, and this is based on long-standing precedent. This is for a good reason. It would be entirely inappropriate for the Applicant's ability to carry out works to trees, so that it can effectively and safely maintain the replacement pipeline, to be made subject to consultation and approval. If it were, the Applicant apprehends that the power would be unworkable and that its ability to respond effectively to the various maintenance requirements which may arise in practice would be comprised. The Applicant considers that the 'built-in' limitations on the power in article 41 are sufficient and appropriate.</p>



## References

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

Natural England and Forestry Commission (2018). Ancient woodland, ancient trees and veteran trees: protecting them from development. Accessed January 2020. <https://www.gov.uk/guidance/ancient-woodland-and-veteran-trees-protection-surveys-licences>.



## **2 Appendices**

### **Appendix 1: Queen Elizabeth Park Survey - Schedule**



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# 1 Tree Survey Schedule

## 1.1 Tree Survey Schedule Key

Life Stage	Description
NP	Newly planted
Y (Young)	An establishing tree that could easily be transplanted.
SM (Semi Mature)	An established tree still to reach its ultimate height and spread and with considerable growth.
EM (Early Mature)	A tree reaching its ultimate height and whose growth is slowing however it will still increase considerably in stem diameter and crown spread.
M (Mature)	A tree with limited potential for further increase in size although likely to have a considerable safe useful life expectancy.
OM (Over Mature)	A senescent or moribund tree with a limited useful expectancy.
V (Veteran)	A tree older than typical for the species and of great ecological, cultural or aesthetic value

Abbreviations	Description
Stem Ø (mm) at 1.5m	Diameter of stem in millimetres at 1.5m above ground level for single-stemmed trees or in accordance with Annex C of BS 5837 for multi-stemmed trees or trees with low forks or irregular stems.
Stems	Numbers of stems or M/S = Multi-Stemmed
Height of (FSB)	Height of First Significant Branch above ground level.
Crown Spread NSEW	Crown spread at the four points, North, South, East and West.
Condition	Condition of the tree observed at the time of surveying
Est Remaining Contribution (Years)	Estimated Remaining Contribution in Years (<10, 10+, 20+, 40+). G = Good; F = Fair; P = Poor; D = Dead.

BS Category	Description
A	High quality and value (non-fiscal) with at least 40 years remaining life expectancy.
B	Moderate quality and value with at least 20 years remaining life expectancy.
C	Low quality and value with at least 10 years remaining life expectancy, or young trees with a stem diameter below 150mm.
U	Unsuitable for retention. The existing condition is such that the tree/trees cannot be realistically retained as in the context of the current land use for longer than 10 years. Note, category U trees can have existing or potential conservation value which it might be desirable to preserve.
RPA Radius (m)	Root Protection Radius in metres based on stem diameter.
RPA Area (m <sup>2</sup> )	Root protection Area. A layout design tool indicating the minimum area surrounding the tree that contains sufficient rooting volume to maintain the trees viability, and where the protection of the roots and soil structure is treated as a priority. Assessed according to the recommendations set out in clause 4.6 of BS 5837. It is calculated by multiplying the radius squared by 3.142. Clause 4.6 of BS 5837 states that the RPA may be changed in shape, taking into account local site factors, species tolerance, condition and root morphology.

## 1.2 Queen Elizabeth Park Tree Survey Schedule

Table 1.1: Queen Elizabeth Park Tree Schedule

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T1	Oak	M	1100	22		10.5	11.8	9.5	8.3	G	Dense ivy		20+	B2	13.2	547
T2	Willow	OM	1240	14		7	6.7	7.2	5.4	F	Pollard		<10	C2	14.9	696
T3	Oak	M	870	20(10)		7	4	9.3	11	G			20+	B2	10.4	342
T4	Sweet chestnut	M	500, 410, 490	18(5)		6	4	7	5	G			20+	B2	9.7	298
T5	Beech	V	1270	13(6)		3	3	3	3	P	Heavily crown reduced. Historic storm damage and cavities. Limited live growth.		20+	U	15	707
T6	Beech	M	820	22(5)		8.3	7.5	8	7	G			20+	B2	9.8	304
T7	Sweet chestnut	M	850	20(3)		9	7	6	10	G			20+	B2	10.2	327
T8 (Identified as T42 in Appendix 10.2: Schedule of Notable Trees Revision 2.0)	Beech	V	800, 860	18(1.6)		7.8	11.8	10.1	10.2	G			20+	A3	14.1	624
T9	Sweet chestnut	M	490, 660, 630	18(2.5)		8	8	8	8	G			20+	B2	12.4	485
T13	Beech	M	1070	20		10	10	10	10	F	Deadwood. Branch Spurs.		20+	B2	12.8	518
T14	Beech	M	770	23(3)		8	8	8	8	G			20+	B2	9.2	268
T15	Beech	M	1000	23(4)		9	11.7	8.3	10	G			20+	B2	12	452
T16	Beech	M	770	24(4)		6	8	7	8	G			20+	B2	9.2	268
T17	Lime	M	660	16(0)		5	7	4	3	F			20+	B2	7.9	197
T18	London plane	EM	310	16(2)		3	9	6	3	F			20+	B2	3.7	43

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T19	Weeping willow	M	640, 450	14(0.5)		6	9	12	7	P	Heavily decayed base. Recorded as a veteran in the ATI.		20+	C2	9.4	277
T20	Oak	M	800	20(7)		6	11	8	6	F			20+	B2	9.6	290
T21	Ash	SM	245	12(1.5)		5	4	4	4	F			20+	C2	2.9	27
T22 (Identified as T41-A3 in Technical Note: Ancient Woodland and Veteran Trees)	Willow	V	840	4		0	0	0	0	P	Heavily decayed pollard. Ganoderma fruiting bodies		<10	U	10.1	319
G23	Ash, elder	Y	100	6(2)						F	Low quality sapplings		20+	C2	1.2	38
T24	Oak	EM	440, 360	18(2)		9	9	3	4	F			20+	C2	6.8	146
T25	Oak	M	400, 450, 415	22		0	0	0	0	G			20+	B2	8.8	242
T26	Oak	M	640	17(1)		7	4	10	11	F	Deadwood. Bat boxes on trunk. Compacted root area		20+	B2	7.7	185
T27	Oak	M	465, 490	18(2)		8	4	4	10	G			20+	B2	8.1	206
T28	Oak	M	640	18(2)		6	7	10	11	G	Low limbs 2.5m to south		20+	B2	7.7	185
T29	Oak	SM	210	12(2)		2	4	2	4	F			20+	C2	2.5	20
G30	Willow, hazel, ash, sycamore, beech, rhododendron	Y	200	6						P			<10	U	2.4	203
T31	Oak	M	410	20		6	6	6	6	G			20+	B2	4.9	76

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T32	Oak	M	440	16		6	6	6	6	F	Stem bleed		20+	C2	5.3	88
T33	Oak	SM	160	12		2	5	5	5	F			20+	C2	1.9	12
T34	Oak	M	590	20		6	6	6	6	G			20+	B2	7.1	157
T35	Oak	M	800	21(2)		6.7	8	10.6	7.5	G			20+	B2	9.6	290
T36	Oak	SM	120, 150	6		1	6	1	0	P	Dead third stem		<10	U	2.3	17
T37	Hazel	Y	80, 75	8		2	2	2	0	F			20+	C2	1.3	5
T38	Hazel	Y	80, 70	8		2	2	2	2	F			20+	C2	1.7	9
T39	Willow	EM	180, 150	3		3	3	3	3	P	Partially uprooted		<10	U	2.8	25
T40	Willow	M	380	16(10)		3.6	5	3.4	4.8	F			<10	C2	4.6	65
T41	Oak	Y	100	8		4	4	4	4	F			20+	C2	1.2	5
T42	Oak	SM	230	8		6	6	6	6	G			20+	B2	2.8	24
T43	Willow	OM	830	2		0	0	0	0	P	Pollard. Severe decay. Habitat value.		<10	U	10	312
T44	Oak	EM	260	18		4	4	4	4	G			20+	B2	3.1	31
T45	Oak	EM	340	18		4	5	4	4	G			20+	B2	4.1	52
T46	Oak	EM	280	15		5	5	5	5	G			20+	B2	3.4	35
T47	Oak	EM	370	20		6	6	6	6	G			20+	B2	4.4	62
T48	Oak	SM	260	21		4	4	4	4	G			20+	B2	3.1	31
T49	Oak	M	450	20		7	7	7	7	G			20+	B2	5.4	92
T50	Oak	EM	350	18		6	6	6	6	G			20+	B2	4.2	55
T51	Oak	SM	180, 160, 120	18		3	4	4	4	G			20+	B2	4.8	73
T52	Beech	Y	80	12		2	2	2	2	F			20+	C2	1	3
T53	Silver birch	SM	230, 190	4		3	3	3	3	F			20+	C2	3.6	40
T54	Silver birch	Y	75	14		2	2	2	2	F			20+	C2	0.9	3
T55	Sweet chestnut	SM	210, 160, 240	20		3	3	3	3	F			20+	B2	4.3	58
T57	Willow	EM	360, 210	18		4	5	4	4	F			20+	C2	5	79



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T58	Oak	Y	110	8		3	3	3	3	F			20+	C1	1.3	5
T59	Goat willow	OM	310, 360	18		5	4	4	5	P			<10	U	5.7	102
T60	Oak	SM	170	8		3	3	4	3	P			<10	U	2	13
T61	Oak	EM	260	18		3	3	3	3	F			20+	C2	3.1	31
T62	Oak	Y	150	8		2	2	2	2	G			20+	C1	1.8	10
T63	Alder	EM	260	20		3	3	3	3	F			20+	C1	3.1	31
T64	Hazel	Y	80	3		2	2	2	2	F			20+	C1	1	3
T65	Hazel	Y	40, 100, 40, 40	3		2	1	1	2	F			20+	C1	1.5	7
T66	Oak	M	640	22(3)		7	4	4	6.9	G			20+	B2	7.7	185
T67	Oak	M	620	23(4)		8	6	7	4.8	G			20+	B2	7.4	174
T68	Oak	EM	280	10		5	5	5	3	F			20+	C2	3.4	35
T69	Silver birch	EM	280	18		4	4	4	4	F			20+	C1	3.4	35
T70	Oak	EM	360	18		5	4	4	4	G			20+	B2	4.3	59
T71	Willow	EM	400	8		4	3	1	3	G	Pruning wound with new main stem.		20+	C2	4.8	72
T72	Silver birch	Y	100, 150	10		2	2	2	2	F			20+	C2	2.2	15
T73	Beech	M	740	14		3	2	2	2	P	Heavily reduced. Some decay and cavities.		20+	C2	8.9	248
T74	Beech	SM	180	14		2	2	2	2	F			20+	C2	2.2	15
T75	Silver birch	Y	130	10		2	2	2	2	F			20+	C1	1.6	8
T76	Willow	SM	180	12		2	2	2	2	F			20+	C2	2.2	15
T77	Oak	SM	220	14		4	4	4	4	F			20+	C2	2.6	22
T78	Silver birch	EM	270	20		3	3	3	3	F			20+	C2	3.2	33
T79	Oak	EM	280	20		4	4	4	4	F			20+	C2	3.4	35
T80	Oak	EM	190	8		3	3	3	3	F			20+	C1	2.3	16
T81	Silver birch	EM	220, 290	16		5	5	5	5	F			20+	B2	4.4	60



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T82	Silver birch	M	410, 190, 240	18		5	5	5	4	F		20+	C2	6.1	118	
T83	Beech	M	770	22		7	7	7	7	G		20+	B2	9.2	268	
T84	Silver birch	EM	350	21		5	5	5	5	F		20+	B2	4.2	55	
T85	Silver birch	EM	290	18		4	4	4	4	G		20+	B2	3.5	38	
T86	Silver birch	EM	320	14		2	3	4	3	F		20+	C2	3.8	46	
T87	Silver birch	M	340, 240	18		4	4	5	4	F		20+	C2	5	78	
T88	Silver birch	SM	200	12		2	3	4	3	F		20+	C2	2.4	18	
T89	Silver birch	Y	140	8		3	3	4	3	F		20+	C2	1.7	9	
T90	Silver birch	Y	110	10		2	2	2	2	F		20+	C2	1.3	5	
T91	Silver birch	SM	190	12		2	2	3	2	F		20+	C2	2.3	16	
T92	Silver birch	SM	210	16		2	2	2	2	F		20+	C2	2.5	20	
T93	Silver birch	EM	310	18		3	4	4	4	F		20+	C2	3.7	43	
T94	Silver birch	Y	110	12		2	2	3	2	F		20+	C2	1.3	5	
T95	Silver birch	SM	160	14		2	2	2	2	P		20+	C1	1.9	12	
T96	Silver birch	EM	290	18		3	3	4	3	F		20+	C2	3.5	38	
T97	Silver birch	SM	160	6		3	3	3	3	F		20+	C2	1.9	12	
T98	Oak	M	320	15		3	3	5	3	F		20+	C2	3.8	46	
T99	Oak	SM	180	15		3	3	3	3	F		20+	C2	2.2	15	
T100	Oak	SM	240	14		3	3	4	3	F		20+	C2	2.9	26	
T101	Silver birch	SM	150	12		2	2	2	2	F		20+	C2	1.8	10	

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T102	Silver birch	SM	260	18		3	3	3	3	F		20+	C2	3.1	31	
T103	Birch	Y	130	12		2	2	2	2	F		20+	C2	1.6	8	
T104	Birch	Y	140	15		2	2	2	2	F		20+	C2	1.7	9	
T105	Sweet chestnut	Y	120	12		2	2	2	2	F		20+	C2	1.4	7	
T106	Sweet chestnut	EM	370	16		4	4	4	4	G		20+	B2	4.4	62	
T107	Silver birch	SM	220	18		3	1	3	3	F		20+	C2	2.6	22	
T108	Silver birch	SM	180	18		2	2	2	2	F		20+	C2	2.2	15	
T109	Silver birch	EM	250	18		4	4	4	4	F		20+	C2	3	28	
T110	Silver birch	EM	250, 150	18		3	3	3	3	F		20+	C2	3.5	38	
T111	Silver birch	SM	230, 100	18		3	3	3	3	F		20+	C2	3	28	
T112	Silver birch	SM	110	14		1	1	1	1	F		20+	C2	1.3	5	
T113	Silver birch	SM	150, 100, 100, 100	16		2	2	2	2	F	Engulfed by large rhododendron	20+	C2	2.7	24	
T114	Silver birch	SM	210	16		3	3	3	3	F		20+	C2	2.5	20	
T115	Sweet chestnut	SM	150	12		3	3	3	3	F		20+	C2	1.8	10	
T116	Silver birch	SM	180	18		2	2	2	2	F		20+	C2	2.2	15	
T117	Silver birch	Y	140	14		2	2	2	2	F		20+	C2	1.7	9	
T118	Sweet chestnut	SM	240	18		4	4	4	4	F		20+	C2	2.9	26	



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T119	Silver birch	SM	180	16		2	2	2	2	F			20+	C2	2.2	15
T120	Silver birch	Y	110	16		2	2	2	2	F			20+	C2	1.3	5
T121	Silver birch	Y	120	16		2	2	2	2	F			20+	C2	1.4	7
T122	Silver birch	SM	180	12		2	2	2	2	F			20+	C2	2.2	15
T123	Silver birch	Y	110	16		2	2	2	2	F			20+	C2	1.3	5
T124	Holly	SM	70	8		2	2	2	2	F			20+	C2	0.8	2
T125	Holly	EM	120	14		3	3	3	3	F			20+	C2	1.4	7
T126	Silver birch	SM	230	16		4	4	5	4	F			20+	C2	2.8	24
T127	Silver birch	Y	100	14		2	2	3	2	F			20+	C2	1.2	5
T128	Sweet chestnut	EM	270, 250, 120, 200, 120	16		5	6	5	4	P	Strangled by rhododendron		20+	C2	5.4	92
T129	Silver birch	EM	260	22		3	4	3	3	F			20+	C2	3.1	31
T130	Silver birch	SM	150	16		2	2	2	2	F			20+	C2	1.8	10
T131	Silver birch	EM	100	14		2	3	2	2	F			20+	C2	1.2	5
T132	Silver birch	EM	380	20		6	6	6	6	F			20+	C1	4.6	65
T133	Silver birch	EM	370	22		5	6	5	5	F			20+	C2	4.4	62
T134	Beech	SM	220	16		6	8	6	6	F			20+	C2	2.6	22
T135	Silver birch	SM	230, 100	17		5	5	5	5	F			20+	C2	3	28
T136	Beech	SM	210	17		4	4	4	4	F			20+	C2	2.5	20
T137	Beech	SM	210	18(4)		1.5	5	7.8	4	F			20+	C2	2.5	20
T138	Beech	EM	350	17(4)		4.5	4.5	4.5	4.5	F			20+	C2	4.2	55





Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T139	Beech	EM	360	16		7	7	7	7	F			20+	C2	4.3	59
T140	Beech	SM	180	16		4	4	4	4	F			20+	C2	2.2	15
T141	Beech	SM	260	16		6	6	6	6	F			20+	C2	3.1	31
T142	Silver Birch	EM	350	18		6	6	6	6	F			20+	C1	4.2	55
T143	Sweet chestnut	M	400	18		5	5	5	5	F			20+	C2	4.8	72
T144	Beech	SM	200	6		0	4.3	7.5	2.8	F			20+	C2	2.4	18
T145	Silver birch	M	500	16		7	7	7	7	F			20+	C2	6	113
T146	Silver birch	EM	320	15		6	6	6	6	F			20+	C2	3.8	46
T147	Beech	EM	280	20		5	5	5	5	F			20+	C2	3.4	35
T148	Silver birch	SM	160	14		4	4	4	4	F			20+	C2	1.9	12
T149	Sweet chestnut	M	400, 130	20(0.5)		3	4	7	4.5	F			20+	C2	5	80
T150	Beech	EM	300	8		6	6	6	7	P	Strangled by rhododendrons		20+	C2	3.6	41
T151	Silver birch	EM	310	15		5	5	5	5	F			20+	C2	3.7	43
T152	Sweet chestnut	M	290, 360, 370	15(1.5)		5.4	5.5	5.6	5.7	F			20+	C2	7.1	159
T153	Silver birch	SM	180	16		3	3	3	3	F			20+	C2	2.2	15
T154	Silver birch	EM	260, 140	16		3	3	3	3	F			20+	C2	3.5	39
T155	Silver birch	Y	140	14		3	3	3	3	F			20+	C2	1.7	9
T156	Oak	Y	130	14		3	3	3	3	F			20+	C2	1.6	8
T157	Oak	Y	150	14		3	3	3	3	F			20+	C2	1.8	10
T158	Oak	EM	220, 230	16		4	4	4	4	F			20+	C2	3.8	46



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T159	Sweet chestnut	SM	150	6		4	3	3	3	F			20+	C2	1.8	10
T160	Sweet chestnut	SM	160	5		4	3	3	3	F			20+	C2	1.9	12
T161	Oak	EM	270	16		5	4	4	4	F			20+	C2	3.2	33
T162	Silver birch	SM	190	14		3	3	3	3	F			20+	C2	2.3	16
T163	Silver birch	SM	250	16		4	4	3	4	F			20+	C2	3	28
T164	Silver birch	SM	230	15		4	4	3	4	F			20+	C2	2.8	24
T165	Silver birch	M	360	16		3	6	6	4	F			20+	C2	4.3	59
G166	1 oak, 14 birch	EM	250	17						F			20+	C2	3	191
T167	Scots pine	M	660	22(7)		5	5	4.5	5	G			20+	B2	7.9	197
T168	Oak	M	560	17(4)		6	3	6	7	G			20+	B2	6.7	142
T169	Sweet chestnut	M	400, 440	15(4)		5	3	3	5	P	Decay seam. Bat potential		20+	C2	7.1	160
T170	Silver birch	EM	290	17		5	4	3	4	F			20+	C2	3.5	38
T171	Silver birch	Y	140	10		2	2	2	2	F			20+	C1	1.7	9
T172	Oak	EM	400	16(4)		4	3	5	5	F			20+	C2	4.8	72
T173	Oak	EM	310	16		5	5	5	5	F			20+	C1	3.7	43
T174	Silver birch	SM	160	10		2	2	2	2	F			20+	C1	1.9	12
T175	Oak	M	630	19(5)		6	6	7	6	G			20+	B2	7.6	180
T176	Sweet chestnut	SM	190, 210	15		4	4	4	4	F			20+	C1	3.4	36
T177	Beech	M	800	21(5)		8	8	9	7	G			20+	B2	9.6	290
T178	Oak	EM	350	13		6	6	6	6	F			20+	C2	4.2	55

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T179	Sweet chestnut	EM	9X80	8		2	2	2	2	F	Coppiced regen		20+	C1	2.1	14
T180	Beech	Y	100, 80, 60, 50	5		3	3	3	3	F			20+	C1	1.8	10
T181	Sweet chestnut	EM	230	15		4	1	4	4	F			20+	C1	2.8	24
T182	Oak	EM	300	15		5	3	5	3	F			20+	C1	3.6	41
T183	Sweet chestnut	EM	280	15		3	3	3	3	F			20+	C1	3.4	35
T184	Silver birch	M	480, 350	16		7	6	5	6	F			20+	C2	7.1	160
T185	Silver birch	M	450, 250, 280, 160, 100	18		7	6	5	6	F			20+	C2	7.4	171
T186	Silver birch	EM	390	17		4	4	4	4	F			20+	C2	4.7	69
G187	9 silver birch, 1 rowan	EM	300	19						F			20+	C2	3.6	484
T188	Beech	M	1120	24(3)		10	11	9	10	G			20+	B2	13.4	567
T189	Silver birch	EM	310	17(6)		0	3	5	0	F			20+	C1	3.6	41
T190	Silver birch	SM	210	13(10)		1	2	2	2	F			20+	C1	2.5	20
T191	Silver birch	M	470	20(7)		6	6	6	6	F			20+	C2	5.6	100
T192	Silver birch	EM	340	10		3	3	3	3	P			<10	U	4.1	52
T193	Silver birch	Y	120, 140	7		2	2	2	2	P			<10	U	2.2	15
T194	Silver birch	SM	240	12		3	3	5	3	F			20+	C1	2.9	26
T195	Oak	EM	380	17		3	8	8	8	F			20+	C2	4.6	65

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T196	Beech	M	780	22(5)		6.5	7	7.5	8	G		20+	B2	9.4	275	
T197	Sweet chestnut	M	450	18		6	6	6	6	P	Decay seam	20+	C2	5.4	92	
T198	Sweet chestnut	M	340, 420	17		8	8	8	8	F		20+	C2	6.5	132	
T199	Sweet chestnut	M	660	21		7	7	7	7	F		20+	C2	7.9	197	
T200	Sweet chestnut	M	460, 250	24		7	7	7	7	F		20+	C2	6.3	124	
T201	Oak	EM	340	23		6	6	6	6	F		20+	C2	4.1	52	
T202	Beech	M	440	22		8	8	8	8	P	Decay seam 2m from base upwards	20+	C2	5.3	88	
T203	Sweet chestnut	M	440, 400	20		7	7	7	7	F		20+	C2	7.1	160	
T204	Silver birch	SM	250	18		4	4	4	4	F		20+	C1	3	28	
T205	Sweet chestnut	M	490	19		5	5	5	5	F		20+	C2	5.9	109	
T206	Sweet chestnut	M	500	19		7	7	7	7	F		20+	C2	6	113	
T207	Sweet chestnut	SM	240, 210	19		4	4	4	4	F		20+	C1	3.8	46	
T208	Silver birch	SM	220, 110, 140	10		3	3	3	3	F		20+	C2	3.4	36	
T209	Silver birch	SM	200	14		4	4	4	4	F		20+	C2	2.4	18	
T210	Sweet chestnut	EM	300, 260, 300	22(5)		4	4	7	3	F		20+	C2	6	112	



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T211	Sweet chestnut	EM	390, 330	15(3)		5	4	3	5	P	Decay seam		20+	C2	6.1	118
T212	Sweet chestnut	EM	370	15(2)		4	4	4	4	F			20+	C2	4.4	62
T213	Silver birch stump	EM	340	0		0	0	0	0	P	Stem split at base	Tree has been removed.	20+	U	4.1	52
T214	Silver birch	EM	250	14		4	3	3	3	F			20+	C2	3	28
T215	Silver birch	SM	230	14		3	3	3	3	F			20+	C2	2.8	24
T216	Silver birch	Y	150	10		3	3	2	2	F			20+	C1	1.8	10
T217	Beech	OM	980	8(3)		5	5	5	5	P	Monolith beech		20+	U	11.8	434
T218	Sweet chestnut	EM	370, 350, 320	16(7)		9	6	0	7	F			20+	C2	7.2	164
T219	Sweet chestnut	M	460, 440, 420	20		7	7	7	7	G			20+	B2	9.2	263
T220	Silver birch	SM	210	14		3	3	3	3	F			20+	C1	2.5	20
T221	Goat willow	SM	150, 120, 40	6		2	1	1	1	P			<10	U	2.4	17
T222	Sycamore	Y	85	8		2	1	1	1	F			20+	C1	1	3
T223	Sweet chestnut	Y	110	6		2	0	0	3	F			20+	C1	1.3	5
T224	Oak	SM	240	12		3	3	3	3	F			20+	C2	2.9	26
T225	Sweet chestnut	M	400, 330	16		7	6	6	7	F	Third stem cut off to 1.2m. Subsequent coppiced regen		20+	C2	6.2	122
T226	Sweet chestnut	EM	360	17		5	5	5	5	F			20+	C2	4.3	59

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T227	Sweet chestnut	M	680	22		3	3	5	5	G			20+	B2	8.2	209
T228	Silver birch	Y	120	14		2	2	2	2	F			20+	C1	1.4	7
T229	Silver birch	EM	270	18		3	3	3	3	F			20+	C1	3.2	33
T230	Silver birch	Y	120	14		2	2	2	2	P			<10	U	1.4	7
T231	Silver birch	Y	95, 80	8		1	1	1	1	P			<10	U	1.5	7
T232	Silver birch	EM	330	18		4	4	4	4	F			20+	C2	4	49
T233	Sweet chestnut	M	540	22		6	6	6	6	G			20+	B2	6.5	132
T234	Oak	M	250, 440, 310	22(8)		5	6	7	8	G			20+	B2	7.1	159
T235	Silver birch	SM	200	16		4	4	4	4	F			20+	C1	2.4	18
T236	Sweet chestnut	EM	320, 430	18(5)		5	5	5	5	F			20+	C2	6.4	130
T237	Silver birch	EM	360	10		4	4	4	4	P			<10	U	4.3	59
T238	Sweet chestnut	M	550	21(4)		5	5	5	5	F			20+	C2	6.6	137
T239	Oak	M	520	23		7	5	6	6	F			20+	C2	6.2	122
T240	Sweet chestnut	M	400	19		6	6	6	6	F			20+	C1	4.8	72
T241	Sweet chestnut	EM	255, 250	16		4	4	4	4	F			20+	C1	4.3	58
T242	Oak	M	570	18(3)		5.8	8.8	6.6	4	F			20+	C2	6.8	147

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T243	Silver birch	Y	110	10		2	2	2	2	F			20+	C1	1.3	5
T244	Beech	SM	190	14		3	3	3	3	F			20+	C1	2.3	16
T245	Sweet chestnut	M	400	16		4	4	4	4	F			20+	C2	4.8	72
T246	Sweet chestnut	M	560	14		5	5	5	5	F	Fallen, wind blown, stabilised. Multiple stems. Growing upwards		20+	C2	6.7	142
T247	Silver birch	SM	240	16		3	3	3	3	F			20+	C2	2.9	26
T248	Sweet chestnut	M	410	16		5	5	5	5	F			20+	B2	4.9	76
T249	Sweet chestnut	EM	280	12		3	3	3	3	F			20+	C1	3.4	35
T250	Sweet chestnut	EM	340	10		4	4	4	4	F			20+	C1	4.1	52
T251	Sweet chestnut	M	410	17		5	5	5	5	F			20+	C2	4.9	76
T252	Silver birch	Y	120	12		1	1	1	1	P			<10	U	1.4	7
T253	Silver birch	M	300	16		3	3	3	3	F			20+	C1	3.6	41
T254	Sweet chestnut	EM	490	18(6)		5	5	5	5	F			20+	C2	5.9	109
T255	Oak	Y	145	12		3	3	3	3	P			20+	U	1.7	10
T256	Oak	Y	80	8		1	1	1	1	P			<10	U	1	3
T257	Silver birch	SM	240	16		3	3	3	3	F			20+	C2	2.9	26
T258	Oak	M	430	21(3)		5	5	5	5	F			20+	C2	5.2	84
T259	Beech	M	480	18(6)		6	6	7	7	G			20+	B2	5.8	104

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T260	Sweet chestnut	M	400	15(6)		0	6	9	8	F			20+	C2	4.8	72
T261	Sweet chestnut	SM	190	16(6)		2	2	2	2	F			20+	C1	2.3	16
T262	Sweet chestnut	M	400	18(5)		5	5	5	5	F			20+	C2	4.8	72
T263	Sweet chestnut	EM	240, 150	18(6)		3.5	3.5	3.5	3.5	F			20+	C1	3.4	36
T264	Beech	EM	510	22(3)		4	4	4	4	G			20+	B2	6.1	118
T265	Sweet chestnut	EM	330	16		1	3	7	1	F			20+	C1	4	49
T266	Beech	M	720, 340, 380	22(6)		6	6	6	6	G			20+	B2	10.6	352
T267	Beech	M	1220	24(6)		7.8	7	6.6	7.3	G			20+	B2	14.6	673
T268	Sweet chestnut	EM	360	18		5	5	5	5	F			20+	C1	4.3	59
T269	Sweet chestnut	SM	240	16		5	5	5	5	F			20+	C1	2.9	26
T270	Beech	M	750	22(8)		6	6	6	7	G			20+	B2	9	254
T271	Sweet chestnut	EM	390	18		6	6	6	6	F			20+	C2	4.7	69
T272	Beech	EM	590	20		7	7	7	7	G			20+	B2	7.1	157
T273	Sweet chestnut	EM	370	18		5	5	5	5	F			20+	C2	4.4	62
T274	Beech	M	730	20(8)		8	8	10	8	G			20+	B2	8.8	241
T276	Lime	SM	215	10(2.5)		4	4	5	4	F			20+	C1	2.6	21
T277	Beech	M	810	22(6)		10	8.7	9.5	4.5	P	Cavity on north side of stem		20+	C2	9.7	297





Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T278	Sweet chestnut	EM	370, 80	18		5	5	5	5	F			20+	C2	4.5	65
T279	Sweet chestnut	EM	360, 270	16		4	4	4	4	F			20+	C2	5.4	92
T280	Sweet chestnut	SM	180	16		4	4	4	4	F			20+	C1	2.2	15
T281	Silver birch	M	630, 140	17(6)		7	7	7	7	F	Two trees fused together. Joint measurement taken.		20+	C2	7.7	188
T282	Silver birch	SM	180	15		2	2	2	2	F			20+	C1	2.2	15
T283	Beech	Y	60	6		1	1	1	1	F			20+	C1	0.7	2
T284	Sweet chestnut	SM	280	14(3)		4	4	4	4	F			20+	C2	3.4	35
T285	Oak	SM	280	10(2)		4	6	5.5	5	F			20+	C2	3.4	35
T286	Silver birch	SM	150, 245, 40, 65	16(2)		3	3	3	3	F			20+	C1	3.6	40
T287	Sweet chestnut	EM	260	15(2)		3	5	5	4	F			20+	C2	3.1	31
T288	Sweet chestnut	Y	85	6(3)		1	1	1	1	F			20+	C1	0	0
T289	Sweet chestnut	EM	320	16(4)		3	2.5	4	3	F			20+	C1	3.8	46
T290	Silver birch	SM	165	16		2	2	2	2	F			20+	C1	2	12
T291	Sycamore	Y	110	10(4)		1	1	1	1	F			20+	C2	1.3	5
T292	Beech	M	420, 800, 245	20(8)		8.5	8.5	7	9	G			20+	B2	11.2	396

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T293	Beech	M	660, 370	20(3)		6.4	10	8.7	7	G			20+	B2	9.1	259
T294	Sweet chestnut	M	535	17(4)		1	5	7.5	2	F			20+	C2	6.4	129
G295	6 birch, 1 beech	SM	270	14						F			20+	C2	3.2	90
T296	Silver birch	EM	270	16(3)		2	2	3	2	F			20+	C1	3.2	33
T297	Beech	M	450, 330	16(8)		7	6	6.5	7	G			20+	B2	6.7	141
T298	Beech	M	600	22		9	6.6	8.5	8	G			20+	B2	7.2	163
T299	Beech	M	610	22		5	8	7	6	G			20+	B2	7.3	168
T300	Silver birch	Y	145, 65	14		2	2	2	2	F			20+	C1	1.9	11
T301	Sweet chestnut	M	675	22(8)		8	6	4	5	G			20+	B2	8.1	206
T302	Sweet chestnut	M	430	16(9)		7.5	6.5	8	4	F			20+	C2	5.2	84
T303	Sweet chestnut	EM	290	14		4	4	4	4	F			20+	C1	3.5	38
T304	Silver birch	SM	160	15		2	2	2	2	F			20+	C1	1.9	12
T305	Silver birch	SM	235	17		3	3	3	3	F			20+	C1	2.8	25
T306	Silver birch	EM	370	18		4	4	4	4	F			20+	C1	4.4	62
T307	Beech	M	750	22(4)		8	8	9.5	8	G			20+	B2	9	254
T308	Sweet chestnut	EM	275, 290	15(2)		4	1	5	8	F			20+	B2	4.8	72
T309	Sweet chestnut	M	680	20		7	7	7	7	G			20+	B2	8.2	209

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T310	Silver birch	SM	85, 200	13		2	2	2	2	F			20+	C1	2.6	21
T311	Silver birch	SM	175	8		2	2	2	2	F			20+	C1	2.1	14
T312	Silver birch	SM	205	8		2	2	2	2	F			20+	C1	2.5	19
T313	Silver birch	M	515, 430, 180	18		5	5	5	5	F			20+	C2	8.3	218
T314	Silver birch	SM	165	6		2	2	2	2	F			20+	C1	2	12
T315	Silver birch	EM	330, 420	16		5	5	5	5	F			20+	C2	6.4	129
T316	Beech	Y	125	14		2	2	2	2	F			20+	C1	1.5	7
T317	Holly	EM	105, 60	8		1	1	1	1	F			20+	C2	1.5	7
T318	Silver birch	SM	195	15		2	2	2	2	F			20+	C1	2.3	17
T319	Silver birch	EM	365	16		4	4	4	4	F			20+	C2	4.4	60
T320	Silver birch	EM	300	16		3	3	3	3	F			20+	C2	3.6	41
T321	Oak	SM	170	15		2	2	2	2	F			20+	C1	2	13
T322	Silver birch	SM	220	18		2	2	2	2	F			20+	C1	2.6	22
T323	Silver birch	EM	210, 290	20		3	3	3	3	F			20+	C2	4.3	58
T324	Silver birch	SM	130	10		1	1	1	1	F			20+	C1	1.6	8
T325	Oak	Y	195	12		2	2	2	2	F			20+	C1	2.3	17
T326	Silver birch	SM	200	16		2	2	2	2	F			20+	C1	2.4	18
T327	Silver birch	SM	250	18		2	2	2	2	F			20+	C2	3	28
T328	Silver birch	SM	90	16		1	1	1	1	F			20+	C1	1.1	4
T329	Silver birch	SM	150	7		1	1	1	1	P			<10	U	1.8	10

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T330	Silver birch	SM	200	10		2	2	2	2	F			20+	C1	2.4	18
T331	Silver birch	EM	310	20		3	3	3	3	F			20+	C2	3.7	43
T332	Silver birch	SM	220	16		2	2	2	2	F			20+	C1	2.6	22
T333	Silver birch	SM	145	15		2	2	2	2	F			20+	C1	1.7	10
T334	Silver birch	SM	150	3		2	2	2	2	P			<10	U	1.8	10
T335	Silver birch	SM	190, 170	16		3	3	3	3	F			20+	C1	3.1	29
T336	Sweet chestnut	EM	295, 355, 390	22		5	5	5	5	G			20+	B2	7.3	165
T337	Silver birch	SM	150	15		2	2	2	2	F			20+	C1	1.8	10
T338	Sweet chestnut	EM	390	16		4	4	4	4	F			20+	C2	4.7	69
T339	Sweet chestnut	SM	200, 95	17		3	3	3	3	F			20+	C1	2.7	22
T340	Sweet chestnut	M	450	18		7	7	7	7	F			20+	C2	5.4	92
T341	Oak	EM	210	17		3	3	3	3	F			20+	C1	2.5	20
T342	Silver birch	EM	290	20		4	4	4	4	F			20+	C1	3.5	38
T343	Sweet chestnut	M	590	20		5	7	7	7	F			20+	C2	7.1	157
T344	Silver birch	M	290	20		5	5	4	5	F			20+	C1	3.5	38
T345	Silver birch	EM	210	16		3	3	3	3	F			20+	C1	2.5	20

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T346	Sweet chestnut	Y	120	16		3	3	3	3	F		20+	C1	1.4	7	
T347	Silver birch	SM	140, 120, 140	16		3	3	3	3	F		20+	C1	2.8	24	
T348	Sweet chestnut	M	890	16(2)		6	6	6	6	G		20+	B2	10.7	358	
T349	Sweet chestnut	EM	160, 270	11(2.5)		3	4	4	3	F		20+	C1	3.8	45	
T350	Scots pine	M	670	22(10)		4.5	4	6	5.3	G		20+	B2	8	203	
T351	Scots pine	M	590	22(11)		5	4	5	4	G		20+	B2	7.1	157	
T352	Sweet chestnut	EM	230, 210, 330	14(3)		3	5	4	5	F		20+	C1	5.4	93	
G353	51 Birch, 2 sweet chestnut	SM	280	16						F	Dense rhododendron	20+	C2	3.4	960	
T354	Beech	M	660	18		6	7	8	8	G		20+	B2	7.9	197	
T355	Sweet chestnut	SM	230	8		6	3	0	4	F	Leaning over footpath	20+	C1	2.8	24	
T356	Oak	SM	250	12		6	1	0	4	F		20+	C1	3	28	
T357	Sweet chestnut	EM	270, 250, 290	16		5	5	5	5	F		20+	B2	5.6	99	
T358	Beech	M	630	20		7	7	6.5	7	G		20+	B2	7.6	180	
T359	Sweet chestnut	EM	330	15		5	5	5	5	F		20+	C1	4	49	
T360	Beech	EM	320	12		7	6	6	6	F		20+	C2	3.8	46	
T361	Oak	SM	220	11(4)		4	4	2	3			20+	C1	2.6	22	



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T362	Silver birch	EM	160	12		2	2	2	2	F		20+	C1	1.9	12	
T363	Sweet chestnut	Y	120	8		2	2	2	2	F		20+	C1	1.4	7	
T364	Sweet chestnut	EM	310	15		4	4	4	4	F		20+	C1	3.7	43	
T365	Sweet chestnut	M	365, 270	16		5	5	5	5	F		20+	B2	5.4	93	
T366	Silver birch	M	310	17		4	2	3	4	F		20+	C2	3.7	43	
T367	Willow	M	230, 160	11		1	2	3	2	P		20+	U	3.4	36	
T368	Silver birch	M	300	17		3	3	3	3	F		20+	B2	3.6	41	
T369	Oak	SM	140	9		2	2	2	2	F		20+	C1	1.7	9	
T370	Norway maple	EM	290	10		7	4.9	4.2	3.1	F		20+	C2	3.5	38	
T371	Beech	EM	320, 140	18		6	3	4	4	F		20+	C1	4.2	55	
T372	Silver birch	Y	95	6		1	1	2	1	F		20+	C1	1.1	4	
T373	Sweet chestnut	M	350, 680, 300	21		9	11	8	8	G		20+	B2	9.9	305	
T374	Sweet chestnut	EM	320	16		3	3	3	3	F		20+	C2	3.8	46	
T375	Sweet chestnut	M	550	19		6	6	6	6	F		20+	B2	6.6	137	
T376	Sweet chestnut	M	540	20		3	3	6	4	F		20+	B2	6.5	132	
T377	Holly	OM	450, 490	16		4	4	4	4	P	Large wound up north side	20+	B2	8	200	

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T378	Sweet chestnut	M	610	17		6	6	6	6	P	Failure of large lateral		20+	C2	7.3	168
T379	Silver birch	Y	130	14		1	2	2	2	F			20+	C1	1.6	8
T380	Silver birch	EM	210	14		1	2	3	2	F			20+	C1	2.5	20
T381	Silver birch	Y	55	10		1	1	1	1	P			<10	U	0.7	1
T382	Silver birch	M	390	20		5	5	5	5	F			20+	C2	4.7	69
T383	Oak	EM	300	17(3)		4	4	4	4	F			20+	C2	3.6	41
T384	Silver birch	SM	110	12(2)		1	2	2	2	F			20+	C1	1.3	5
T385	Silver birch	M	320	16(8)		3	3	3	3	F			20+	C2	3.8	46
T386	Silver birch	SM	160	16		2	2	2	2	F			20+	C1	1.9	12
T387	Silver birch	M	290, 70, 200	17(4)		4	4	4	4	F			20+	C2	4.3	58
T388	Silver birch	EM	220, 130	17		2	2	2	2	P			<10	U	3.1	30
T389	Silver birch	M	390	21(1)		3	4	5	4	F			20+	C2	4.7	69
T390	Silver birch	EM	220, 180	19		3	3	3	3	F			20+	C2	3.4	37
T391	Silver birch	EM	310, 190	17		3	3	4	3	F			20+	C2	4.4	60
T392	Silver birch	SM	145	12		2	2	2	2	F			20+	C1	1.7	10
T393	Silver birch	SM	130	17		2	2	2	2	F			20+	C1	1.6	8
T394	Silver birch	EM	290	22(4)		3	3	3	2	F			20+	C2	3.5	38
T395	Silver birch	M	390	17		3	3	3	3	F			20+	C2	4.7	69



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T396	Silver birch	SM	140	15		1	1	1	1	F			20+	C1	1.7	9
T397	Silver birch	SM	140	13(2)		2	2	2	2	F			20+	C1	1.7	9
T398	Silver birch	M	280	15(2.5)		3	3	3	3	F			20+	C2	3.4	35
T399	Silver birch	SM	200	14(3)		0	0	0	0	P			<10	U	2.4	18
T400	Silver birch	M	370	17		3	4	3	3	F			20+	C2	4.4	62
T401	Silver birch	EM	240	15(3)		3	3	3	3	F			20+	C1	2.9	26
T402	Silver birch	M	310	17		3	3	3	3	F			20+	C2	3.7	43
T403	Hormbeam	EM	385	16		2	3	3	3	P	Snap out. Weak forks. Fungal brackets		<10	U	4.6	67
T404	Silver birch	EM	330	21(2.5)		3	3	3	3	F			20+	C1	4	49
T405	Silver birch	EM	285	20(5)		3	4	4	3	F			20+	C1	3.4	37
T406	Silver birch	EM	310	18		3	3	3	3	F			20+	C1	3.7	43
T407	Silver birch	Y	130	15		2	2	2	2	F			20+	C1	1.6	8
T408	Silver birch	Y	120	15		2	2	2	2	F			20+	C1	1.4	7
T409	Silver birch	EM	290	18		3	3	3	3	F			20+	C1	3.5	38
T410	Silver birch	SM	155	15(4)		2	2	2	2	F			20+	C1	1.9	11
T411	Silver birch	Y	80	4		1	1	1	1	P			<10	U	1	3
T412	Silver birch	SM	195	15		3	3	3	3	F			20+	C1	2.3	17
T413	Silver birch	Y	110, 100, 110	9		2	2	2	2	F			20+	C1	2.2	15



Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T415	Silver birch	Y	125	1		0	0	0	0	P		<10	U	1.5	7	
T416	Silver birch	EM	310	22		3	3	3	3	F		20+	C2	3.7	43	
T417	Silver birch	SM	125, 80	18		2	2	2	2	F		20+	C1	1.8	10	
T418	Silver birch	Y	130	16		2	2	2	2	F		20+	C1	1.6	8	
T419	Oak	SM	195	14		2	2	2	2	F		20+	C1	2.3	17	
T420	Silver birch	EM	220	16		3	3	3	3	F		20+	C2	2.6	22	
T421	Silver birch	EM	300	16		4	3	3	3	F		20+	C2	3.6	41	
T422	Silver birch	M	530	16		4	4	4	4	F		20+	C2	6.4	127	
G423	4 Silver birch	M	450	17						F		20+	C2	5.4	213	
T424	Silver birch	SM	160	10		2	2	2	2	F		20+	C1	1.9	12	
T426	Lime	M	500	19(3)		5	5	5	5	F		20+	B2	6	113	
T427	Silver birch	SM	80, 120	14		2	2	2	2	F		20+	C1	1.7	9	
T428	Silver birch	EM	240	15		2	2	2	2	F		20+	C2	2.9	26	
T429	Silver birch	Y	100, 80	16		2	2	2	2	F		20+	C1	1.5	7	
T430	Silver birch	EM	310	16		3	3	3	3	F		20+	C2	3.7	43	
T431	Oak	SM	150	10		3	3	3	3	F		20+	C1	1.8	10	
T432	Silver Birch	EM	340	22(6)		3	4	5	4	F		40+	B2	4.1	52	
T433	Sweet chestnut	M	420, 460	23(4)		7	7	7	7	F	Old coppice stool	40+	B2	7.5	176	
T434	Birch	EM	280, 210	21		3	3	3	3	F	Dual stem at base	40+	B2	4.2	55	
T435	Beech	SM	320	22		4	4	4	4	F	Attenuated form	40+	B2	3.8	46	

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T436	Beech	SM	220	21		3	3	3	3	F	Attenuated form		40+	C2	2.6	22
T437	Sweet chestnut	SM	210, 120	11		3	3	3	3	P	Unidentifiable decomposing fungi at base		20+	C2	2.9	26
T438	Oak	SM	220	17		2	2	2	2	F	Ivy on stem		40+	B2	2.6	22
T439	Hawthorn	M	350	13(2)		3	3	3	3	F	Prolific ivy		40+	C2	4.2	55
T440	Oak	M	890	22		8	9	8	8	F	Minor deadwood in lower mid canopy and dual stems and 2m		40+	A2	10.7	358
T441	Holly	Y	85	7		1	1	1	1	F			40+	C2	1	3
T442	Ash	SM	310	14(2.5)		4.5	4.5	4.5	4.5	F	Prolific ivy and deadwood		40+	B2	3.7	43
T443	Lime	EM	320	21(2)		4	4	4	4	F			40+	B2	3.8	46
T444	Lawson cypress	SM	280	11(1.5)		3	3	3	3	F			40+	C2	3.4	35
T445	Oak	EM	580	18		5	5	5	5	F	Tree on boundary line with ivy and minor deadwood		40+	B2	7	152
T446	Oak	SM	200	14		3	3	3	3	F	Garden tree		40+	B2	2.4	18
T447	Lawson cypress	EM	240	13		3	3	3	3	F			40+	B2	2.9	26
T448	Oak	Y	130	7		2	2	2	2	F			40+	C2	1.6	8
T449	Beech	Y	110	11		2	2	2	2	F			40+	C2	1.3	5
T450	Holly	SM	110	6		2	2	2	2	F			40+	C2	1.3	5
T451	Beech	EM	540, 370	23		5	5	5	5	F	Garden tree		40+	B2	7.9	194
T452	Beech	SM	180	10		2	2	2	2	F			40+	C2	2.2	15
T453	Birch	EM	490	23(9)		9	8	7	7	F			40+	B2	5.9	109
T454	Lawson cypress	SM	190	11(1.5)		4	4	4	4	F			40+	C2	2.3	16
T455	Beech	M	580	20(2.5)		8	6	2	6				20+	B2	7	152
T456	London plane	EM	510	22(3)		4.5	4.5	6.8	5.9	F			40+	B2	6.1	118
T457	Oak	EM	440, 430	21		5	5	5	5	F	Lower canopy deadwood		40+	B2	7.4	171
T458	Holly	EM	210	11		2	2	2	2	F			40+	C2	2.5	20

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T459	Beech	EM	550	25		6	6	6	6	F	Prolific ivy		40+	B2	6.6	137
T460	Oak	EM	510	24		5	5	5	5	F			40+	B2	6.1	118
T461	Sweet chestnut	SM	360	18		4	4	4	4	F			40+	B2	4.3	59
T462	Holly	EM	220, 170	10		2	2	2	2	F	Limited access		40+	C2	3.3	35
T463	Horse chestnut	SM	230	14		2	2	2	2	F	Bark damage wounds		40+	C2	2.8	24
T464	Beech	EM	460	16		5	6	6	6	F	Some ivy to mid canopy		40+	C2	5.5	96
T465	Beech	M	830	25(4)		7	7	7	7	F	Old bark damage wound at base with dysfunctional wood and callus wood formation		40+	C2	10	312
T466	Holly	SM	160	14		1	1	1	1	F			40+	C2	2.1	14
T467	Holly	EM	140, 90, 90	8(0.5)		3	3	3	3	F	Decay cavity at base		40+	C2	2.3	16
T468	Oak	M	750	23(2)		8.5	7	7	9	F	Prolific ivy and deadwood		40+	B2	9	254
T469	Holly	M	340	11		2	2	2	2	F			40+	B2	4.1	52
T470	Oak	Y	170	11		1	1	1	1	F	Contains deadwood		40+	C2	2	13
T471	Silver birch	SM	160	12(6)		0	2	2	3.5				20+	C1	1.9	12
T472	Sycamore	Y	120, 100	9		2	2	2	2	F			40+	C2	1.9	11
T473	Oak	M	910	24		5.5	7.5	8	7.5	F	Contains moderate size deadwood		40+	A2	10.9	375
T474	Holly	EM	220	9(0.5)		3	3	3	3	F			40+	C2	2.6	22
T475	Beech	M	950	27(6)		8	4	7	9	F	Bark damage wounds, old rope swing and past limb failures		20+	C2	11.4	408
T476	Holly	SM	140, 110	8		2	2	2	2	F			40+	C2	2.1	14
T477	Holly	SM	160	8		2	2	2	2	F			40+	C2	1.9	12
T478	Sycamore	Y	120	9		1	1	1	1	F			40+	C2	1.4	7

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T479	Holly	SM	120	8		1	1	1	1	F			40+	C2	1.4	7
T480	Beech	M	920	27(10)		5	10	8	9	F	Some past branch fractures		40+	B2	11	383
T481	Beech	EM	410	19		5	5	5	5	F			40+	B2	4.9	76
T482	Beech	OM	1050	28(8)		5	10	8	10	F	Large tree with full canopy		20+	C2	13.8	598
T483	Beech	EM	550	25(3)		5	7	4	3.5	F			40+	C2	6.6	137
T484	Corsican pine	M	560	23(19)		2	2	2	2	F	Limited access to survey with prolific ivy to mid canopy		40+	B2	6.6	137
T485	Beech	Y	100	9		2	2	2	2	F			40+	C2	1.2	5
T486	Beech	EM	600	20(9)		5	7	5	2	F	Lower limbs removed with more recent selective limb reductions		40+	B2	0	0
T487	Beech	M	720	28(13)		8	8	8	8	F	Historical bark damage wound at base		20+	C2	8.6	235
T488	Sweet chestnut	SM	330	12(2)		0	0.5	5	6				20+	C1	4	49
T489	Beech	M	620	24(3)		6	6	4	6	F	Attenuated form with small canopy		40+	C2	7.4	174
T490	Sycamore	Y	170	14		3	3	3	3	F	Limited access		40+	C2	2	13
T491	Beech	M	950	28		8	5	5	6	F	Limited access to survey		40+	B2	11.4	408
T492	Beech	Y	120, 120	8		3	3	3	3	F			40+	C2	2	13
T493	Oak	Y	260	7(3)		2	4	4	2	F	Previously crown reduced		40+	C2	3.1	31
T494	Oak	EM	640	27		6	6	6	6	F	Ivy on lower stem and limited access		40+	B2	7.7	185
T495	Oak	M	1090	27(2)		5	7	7	5	F	Ivy over lower stem, past limb reductions		40+	A2	11.4	408
T496	Holly	M	480, 450	16		4	4	4	4	F	Limited access		40+	B2	7.9	196
T497	Willow	EM	560, 460	14(2)		3	5	5	5	P	Decayed third stem		20+	C2	8.7	238
T498	Beech	M	630	21		5	8.2	7.7	5	G			20+	B2	7.6	180

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T499	Beech	EM	265, 180, 320	18(5)		4	4	4	4	F			20+	C2	5.4	93
T500	Silver birch	M	330	14		5	5	5	5	F			20+	C2	4	49
T501	Silver birch	Y	120	10		2	2	3	2	F			20+	C1	1.4	7
T502	Sweet chestnut	SM	150, 175	14		3	3	3	3	F			20+	C1	2.8	24
T503	Silver birch	SM	140	17		1	1	1	1	F			20+	C1	1.7	9
T504	Silver birch	EM	290	16		2	2	2	2	F			20+	C1	3.5	38
T505	Oak	SM	175	8		2	2	2	2	F			20+	C1	2.1	14
T506	Silver birch	Y	130	14		2	2	2	2	F			<10	C1	1.6	8
T507	Beech	M	820	23(12)		10	10	6	7	G			20+	B2	9.8	304
T508	Beech	M	570	18(3)		6	7.5	5	5	F			20+	B2	6.8	147
T509	Sweet chestnut	EM	295	16(4)		4	4	3	4	F			20+	C2	3.5	39
G510	4 willow	SM	270	16						P	4 willows on edge of pond. Dead snapped stems.		<10	U	3.2	80
T511	Alder	EM	220, 250	17(12)		3	3	3	3				20+	C2	4	50
T512	Silver birch	M	280	18(7)		2	3	4	3				20+	C1	3.4	35
G513	24 willow, oak, sweet chestnut, silver birch	EM	300	16						F			20+	C2	3.6	475
T514	Beech	M	740	20(5)		6	6	6	6				20+	B2	8.9	248
T515	Beech	M	755	22(2)		8	8	8	8				20+	B2	9.1	258

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T517	Beech	Y	160	18(3)		1	1	2	3			20+	C1	1.9	12	
T518	Silver birch	M	385	17(8)		8	4	3	7			20+	C2	4.6	67	
T519	Silver birch	M	380	18		4	4	4	4			20+	C2	4.6	65	
T520	Silver birch	M	0	12		0	0	0	0			<10	U	0	0	
T521	Silver birch	M	470	21(12)		4	4	4	4			<10	U	5.6	100	
T522	Sweet chestnut	M	430, 400	18(5)		6	6	3	6			<10	C2	7	156	
T523	Silver birch	M	460	17(10)		5	4	4	4			20+	C2	5.5	96	
T524	Sweet chestnut	EM	380	16(3)		5	7	4	5			20+	C2	4.6	65	
T525	Oak	EM	480	16		5	6	6	4			20+	C2	5.8	104	
T526	Sweet chestnut	EM	300	15(5)		4	6	3	3			20+	C2	3.6	41	
T527	Sweet chestnut	EM	300, 90	16(6)		4	4	4	4			20+	C2	4.3	57	
T528	Silver birch	M	330	18(12)		5	7	7	4			20+	C2	4	49	
T529	Oak	EM	270	16(9)		8	6	4	3			20+	C2	3.2	33	
T530	Silver birch	EM	245	17		4	4	4	4			20+	C2	2.9	27	
T531	Sweet chestnut	M	490	16(6)		6	6	6	5			20+	C2	5.9	109	
T532	Beech	EM	230	15(7)		4	4	3	1			20+	C2	2.8	24	
T533	Beech	SM	120	12(4)		2	2	2	2			20+	C1	1.4	7	
T534	Beech	Y	190	10(4)		2	2	2	2			20+	C1	2.3	16	

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T535	Sweet chestnut	EM	210, 250, 260, 150	13(5)		4	4	4	4				20+	C2	5.3	89
T536	Sweet chestnut	M	440, 350	16(3)		6	6	6	6				20+	C2	6.7	143
T537	Silver birch	M	280	15(7)		2	5	5	6				20+	C1	3.4	35
T538	Silver birch	M	210	17(11)		4	4	4	4				20+	C2	2.5	20
T539	Silver birch	SM	200	16(6)		2	3	4	3				20+	C1	2.4	18
T540	Silver birch	SM	200	16(7)		2	2	2	2				20+	C1	2.4	18
T541	Silver birch	OM	220	16(5)		3	3	3	3				20+	C1	2.6	22
T542	Silver birch	M	460	17(4)		5	5	5	5				20+	B2	5.5	96
T543	Silver birch	M	470, 140	18(5)		4	3	3	5				20+	B2	5.9	109
T544	Silver birch	SM	170, 130	16(5)		2	2	4	2				20+	C1	2.6	21
T545	Sweet chestnut	SM	210, 90	12(2)		3	3	3	3				20+	C2	2.7	24
T546	Sweet chestnut	SM	140	8(3)		1	2	5	0				20+	C1	1.7	9
T547	Sweet chestnut	EM	210, 220	13(2)		3	3	3	3				20+	C2	3.6	42
T548	Silver birch	EM	200	15(5)		2	2	2	4				20+	C1	2.4	18
T549	Beech	M	630	21(3)		6	7	6	7				20+	B2	7.6	180
T550	Oak	M	550	23(3)		8	3	3	8				20+	C2	6.6	137
G551	Silver birch,	EM	350	16						F	Stem diameter taken for largest in group. 10 trees		20+	C2	4.2	372

Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
	sweet chestnut															
T552	Beech	Y	125	14(0)		2	2	2	2			20+	C1	1.5	7	
T553	Oak	EM	480	17(8)		6	6	6	6			20+	C2	5.8	104	
T554	Sweet chestnut	EM	330	15(2)		4	4	4	4			20+	C2	4	49	
T555	Oak	M	460	18(4)		5	5	5	5			20+	B2	5.5	96	
T556	Beech	M	650	22(4)		6.7	6.3	7.5	6.4			20+	B2	7.8	191	
T557	Silver birch	M	400	14(9)		5	5	3	5			20+	B2	4.8	72	
T558	Ash	EM	325	16(6)		4.5	4.5	4.5	4.5			20+	C1	3.9	48	
T559	Silver birch	M	330	20(6)		5	5	5	5			20+	C2	4	49	
T560	Oak	SM	150	14		1	1	1	1			20+	C2	1.8	10	
T561	Sweet chestnut	EM	440	21(6)		4	3	4	4			20+	C2	5.3	88	
T562	Sycamore	SM	200, 180	12(1)		2	2	2	2			<10	C1	3.2	33	
T563	Beech	M	710	23(7)		9.3	6.5	8.3	7.8			20+	B2	8.5	228	
T564	Ash	EM	300	18(7)		5	3.4	4	5			20+	C2	3.6	41	
T565	Sweet chestnut	M	810	22(3)		5.8	7.4	5.3	8.6			20+	B2	9.7	297	
T566	Sweet chestnut	M	550	19(3)		3.3	4.2	9.6	10.6			20+	B2	6.6	137	
T567	Scots pine	M	590	24(5)		4.6	4.8	4.8	4.4			20+	C2	7.1	157	
T568	Norway maple	EM	360	17(2.5)		3	2.8	6	5.5			20+	C2	4.3	59	
T569	Norway maple	M	450	20(2)		4.7	7.8	5.8	4.2			20+	B1	5.4	92	
G570	8 silver birch	EM	250	15						F	8 silver birch in expanse of rhododendron	20+	C1	3	366	

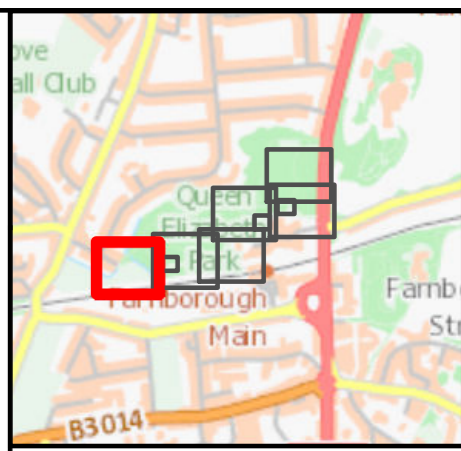
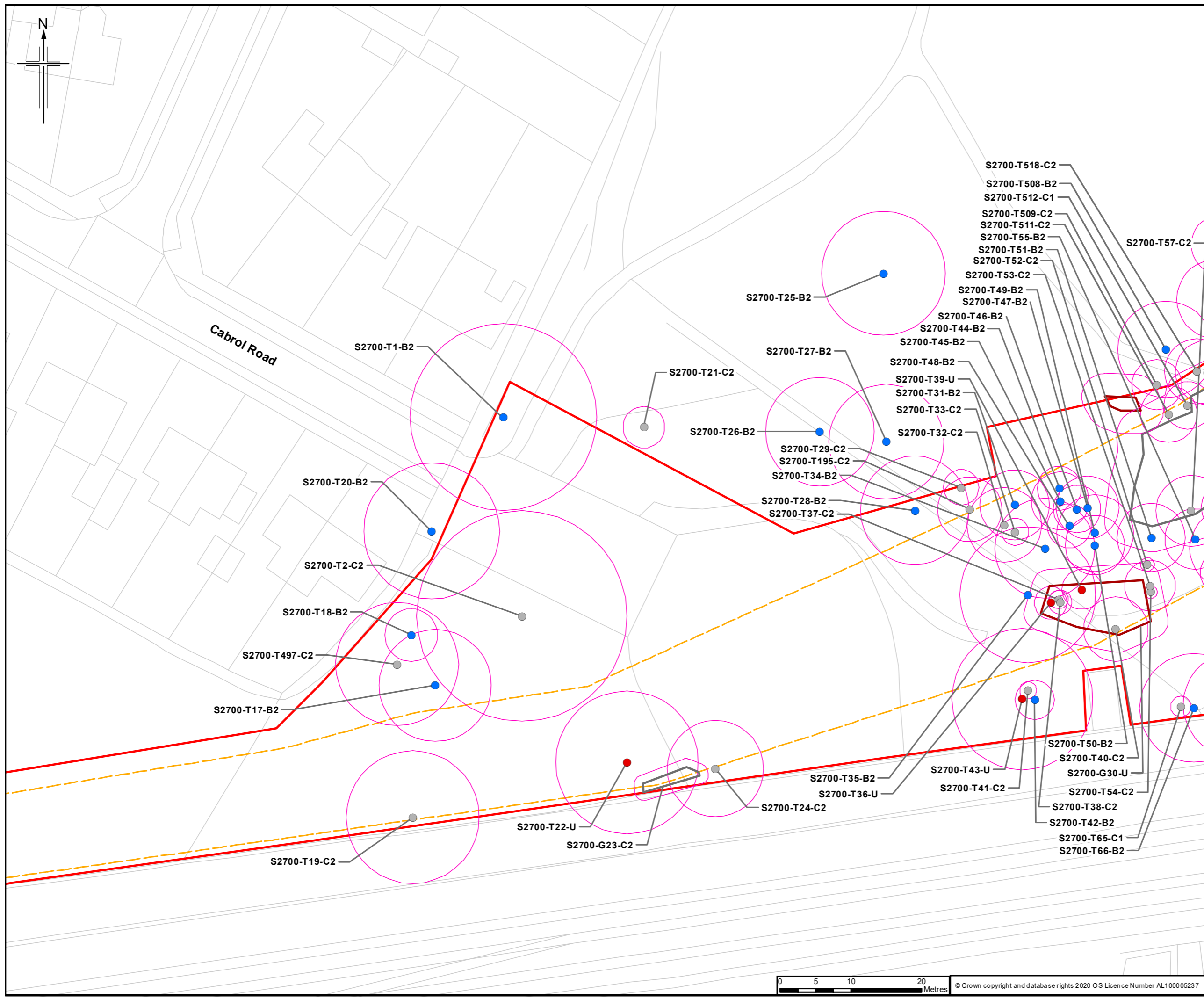


Tree. No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Estimated Crown spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T571	Sweet chestnut	M	460	18(3)		5	6.9	4.8	2				20+	C2	5.5	96
T572	Sweet chestnut	EM	350	17(2)		3.5	3.6	5.2	6				20+	C1	4.2	55
T573	Sweet chestnut	EM	265, 365	19(3)		5	3	3	4				<10	U	5.4	92
T574	Silver birch	M	430	16(2.5)		5.3	5	2.5	4.5				20+	B2	5.2	84
T575	Sweet chestnut	EM	320	8(1.5)		3	3	3	3				20+	C1	3.8	46
T576	Norway maple	EM	210	12(2)		3	3	3	3				20+	C1	2.5	20
T577	Beech	M	1010	22(6)		8.8	8.8	9	8.5				20+	B2	12.1	461
T578	Beech	EM	510	20(2.5)		6.5	6	6.5	5				20+	B2	6.1	118
T579	Norway maple	EM	230	7(2)		4	4	2	4				20+	C1	2.8	24
T580	Oak	Y	85	6(4)		2	2	2	2				20+	C1	1	3



## **3 Figures**

### **Figure 1: Queen Elizabeth Park Survey**



- Legend**
- Order Limits
  - Limits of Deviation
  - Tree Stem - Category A
  - Tree Stem - Category B
  - Tree Stem - Category C
  - Tree Stem - Category U
  - Group Tree - Category C
  - Group Tree - Category U
  - Root Protection Area (RPA)
- S2700-T284-C2 – Tree number and category

Rev.	Date	Purpose of revision	Orig/Down	Check'd	Rev'd	Apprv'd
8	29/01/2020	For Issue	RG	TC	KS	SN

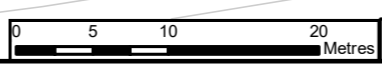
Author  
**JACOBS**  
 110 Exkdale Road, Wokingham, Berkshire, RG41 5TU, UK  
 Tel: +44(0)118 940 7000 Fax: +44(0)118 940 7001  
 www.jacobs.com

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

Project  
 Southampton to London Pipeline Project

Drawing title  
 QUEEN ELIZABETH PARK  
 ARBORICULTURAL SURVEY

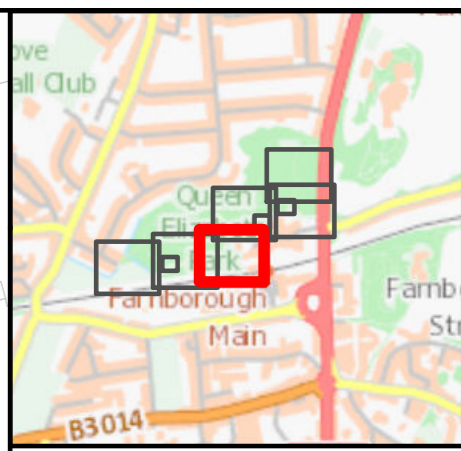
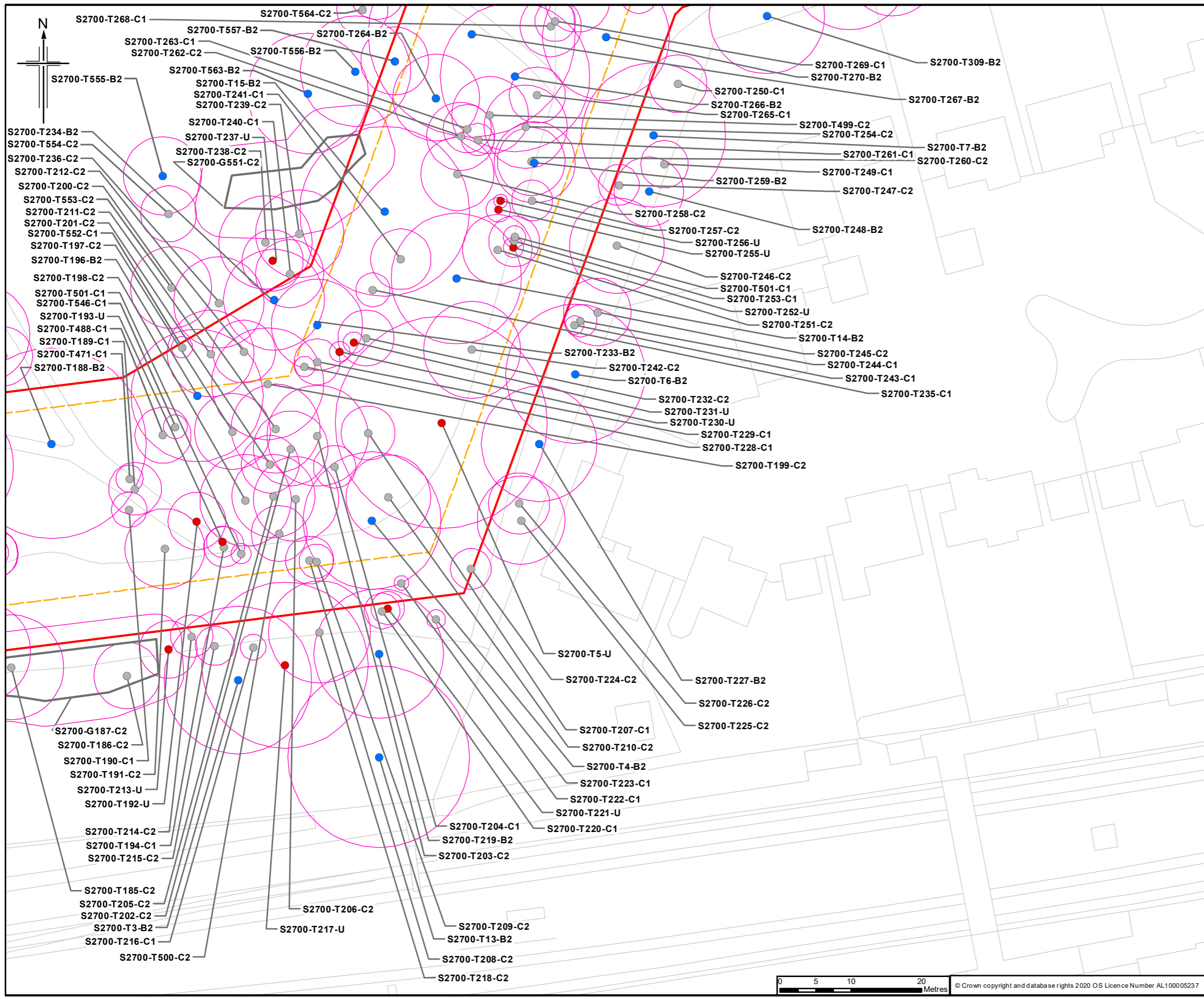
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ProjectWise No.	
Drawing number	Sheet 1 of 8
Rev	0



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- Legend**
- Order Limits
  - Limits of Deviation
  - Tree Stem - Category A
  - Tree Stem - Category B
  - Tree Stem - Category C
  - Tree Stem - Category U
  - Group Tree - Category C
  - Group Tree - Category U
  - Root Protection Area (RPA)
- S2700-T284-C2 – Tree number and category

Rev.	Rev. Date	Purpose of revision	Orig/Down	Checked	Rev'd	Apprv'd
1	29/01/2020	For Issue	RG	TC	KS	SN

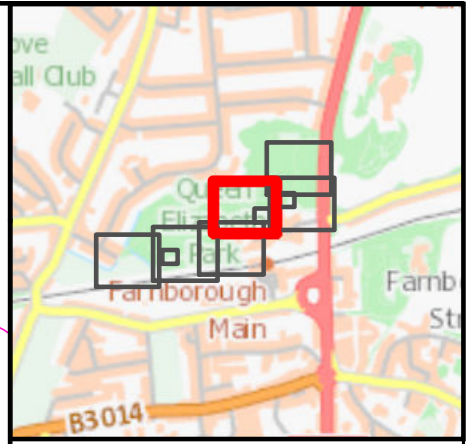
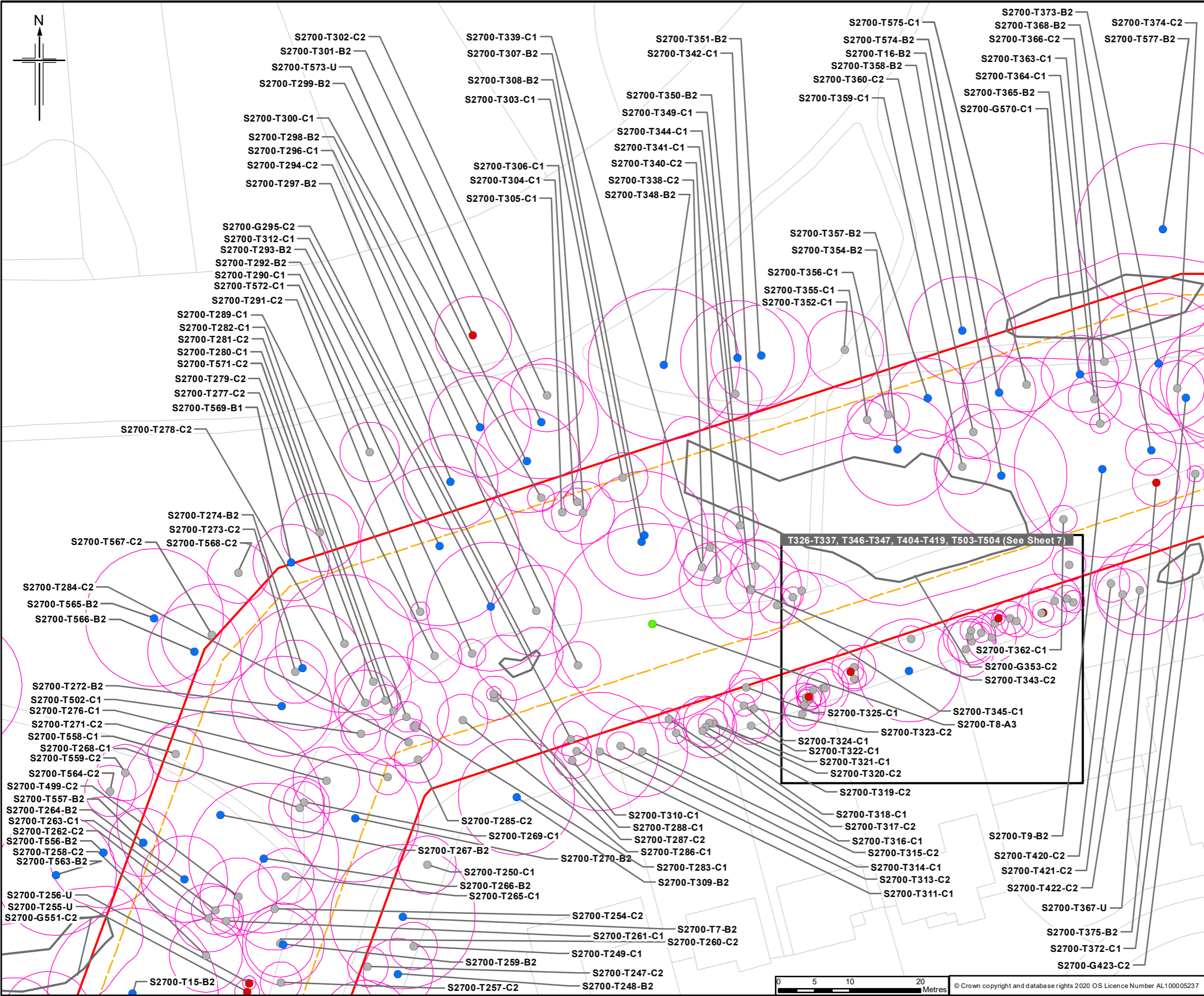


**Client**  
 Esso Petroleum Company, Limited  
 Ermyn House,  
 Ermyn Way,  
 Leatherhead,  
 Surrey,  
 KT22 8UX



**Drawing title**  
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 ARBORICULTURAL SURVEY

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<b>Jacobs No.</b>	B2325300	
<b>ProjectWise No.</b>		
<b>Drawing number</b>	Sheet 3 of 8	Rev 0



**Legend**

- Order Limits
- Limits of Deviation
- Tree Stem - Category A
- Tree Stem - Category B
- Tree Stem - Category C
- Tree Stem - Category U
- Group Tree - Category C
- Group Tree - Category U
- Root Protection Area (RPA)

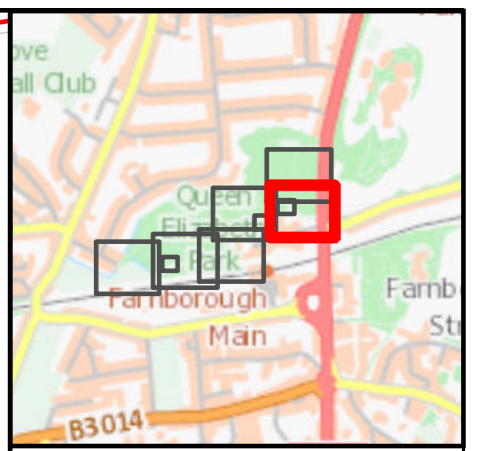
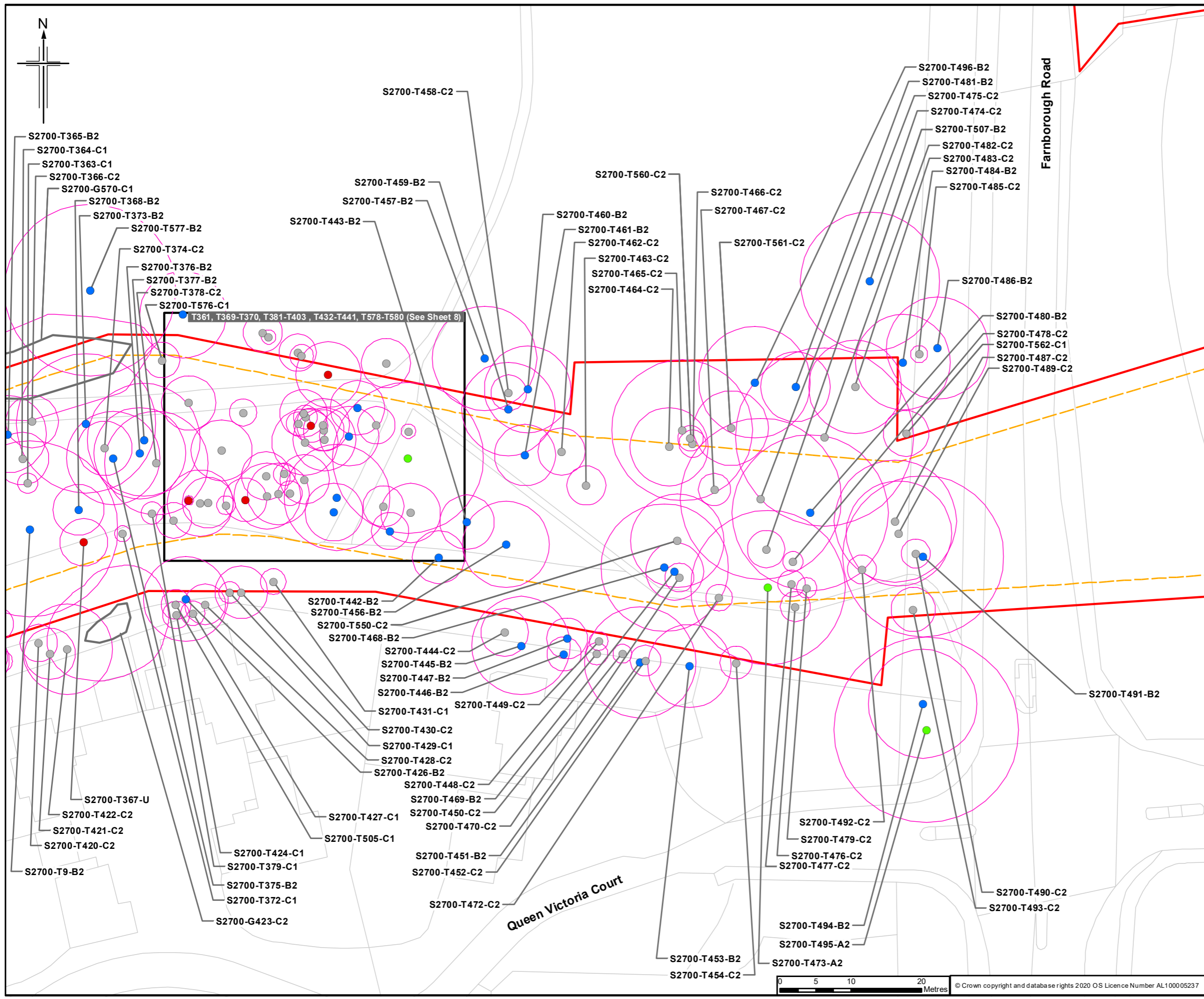
S2700-T284-C2 – Tree number and category

T326-T337, T346-T347, T404-T419, T503-T504 (See Sheet 7)

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<small>110 Exkdale Road, Wokingham, Berkshire, RG41 5TU, UK. Tel: +44(0)118 940 7000 Fax: +44(0)118 940 7051 www.jacobs.com</small>						
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Project						
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Drawing Status						
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Jacobs No.	B2325300					
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Drawing number	Sheet 4 of 8					Rev
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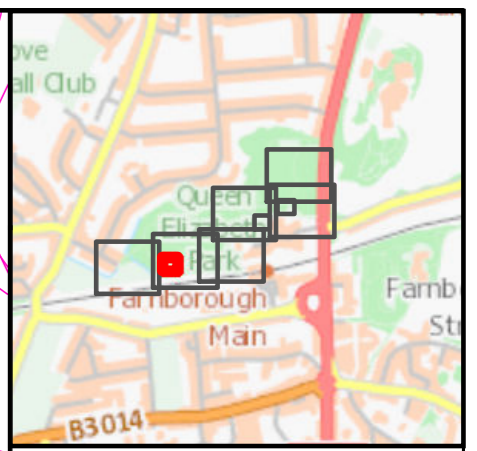
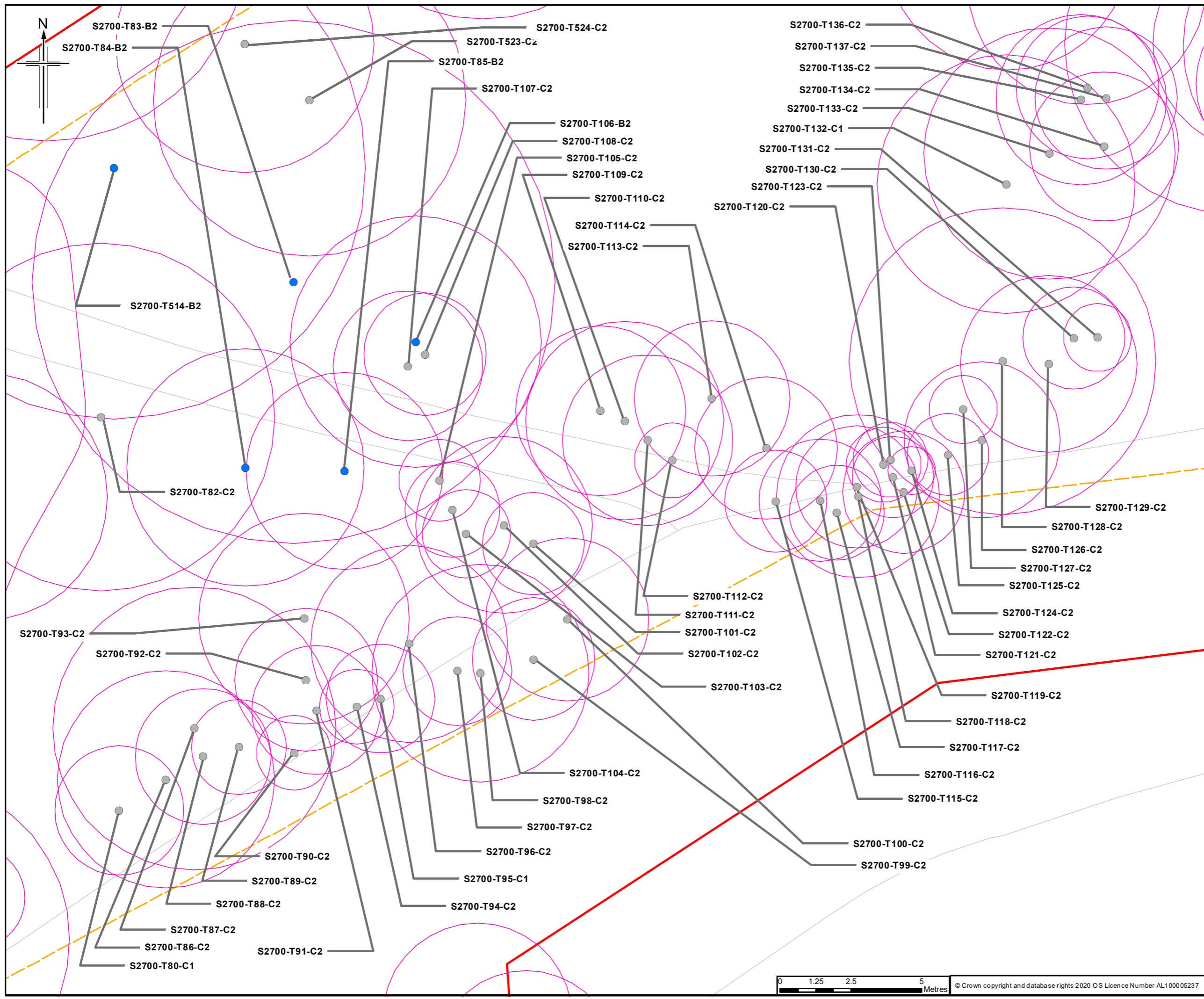
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- Legend**
- Order Limits
  - Limits of Deviation
  - Tree Stem - Category A
  - Tree Stem - Category B
  - Tree Stem - Category C
  - Tree Stem - Category U
  - Group Tree - Category C
  - Group Tree - Category U
  - Root Protection Area (RPA)
- S2700-T284-C2 – Tree number and category

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Author	<small>110 Exekdale Road, Wokingham, Berkshire, RG41 5TU, UK Tel: +44(0)118 940 7000 Fax: +44(0)118 940 7001 www.jacobs.com</small>			
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- Legend**
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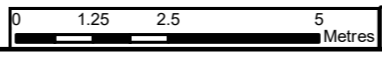
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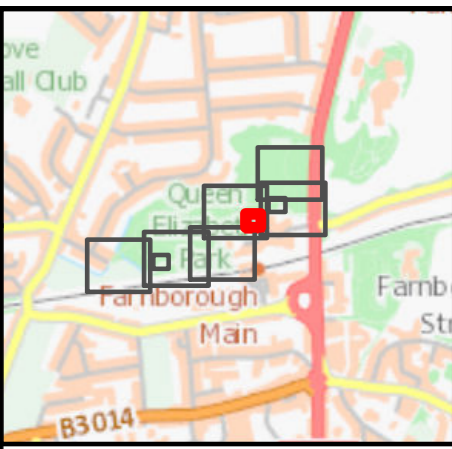
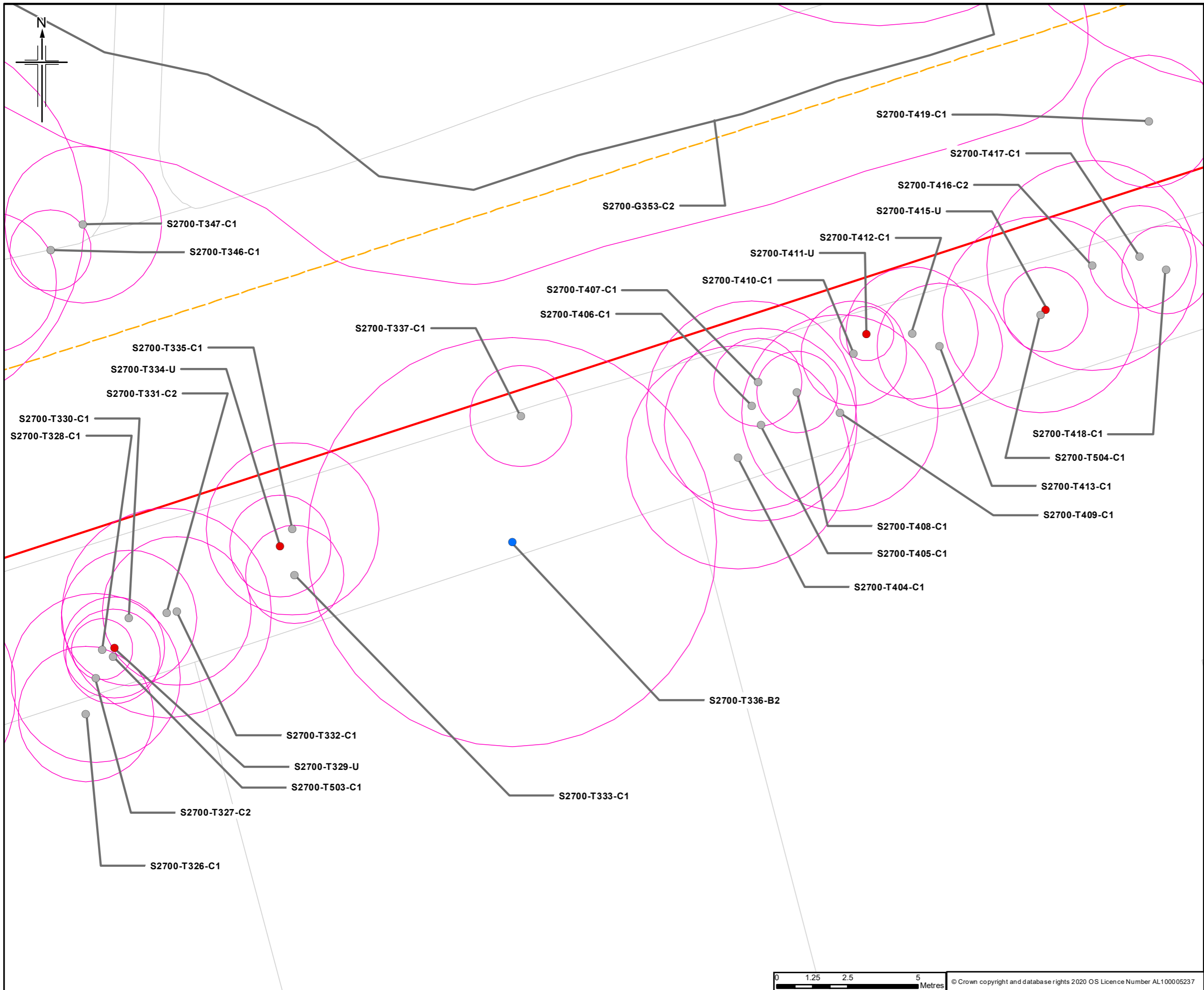
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- Legend**
- Order Limits
  - Limits of Deviation
  - Tree Stem - Category A
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  - Tree Stem - Category U
  - Group Tree - Category C
  - Group Tree - Category U
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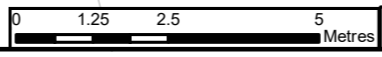
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**JACOBS**  
 110 Exekdale Road, Wokingham, Wokingham, RG41 5TU, UK.  
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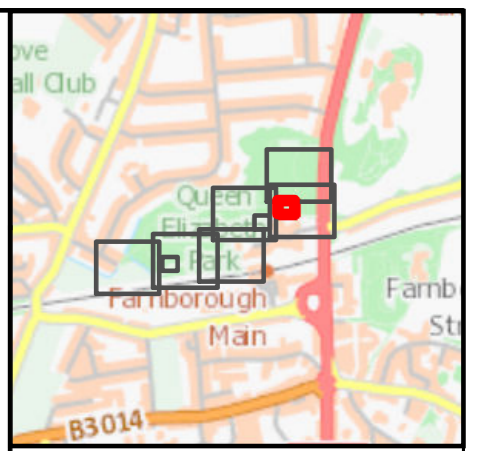
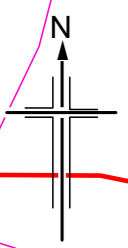
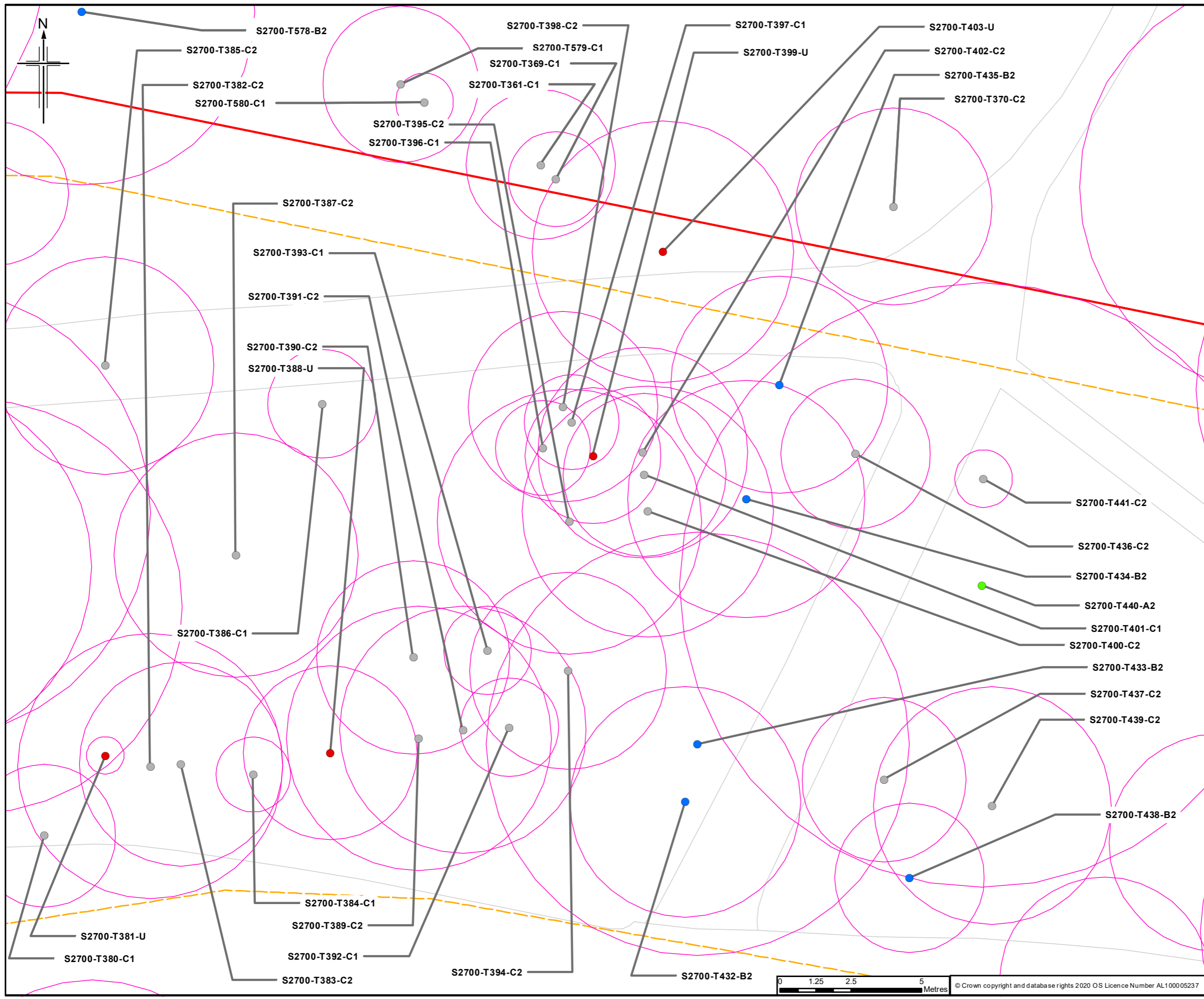
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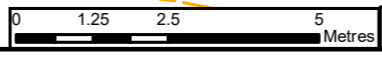
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- Legend**
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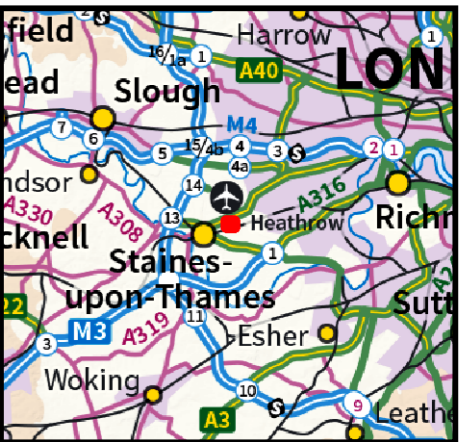
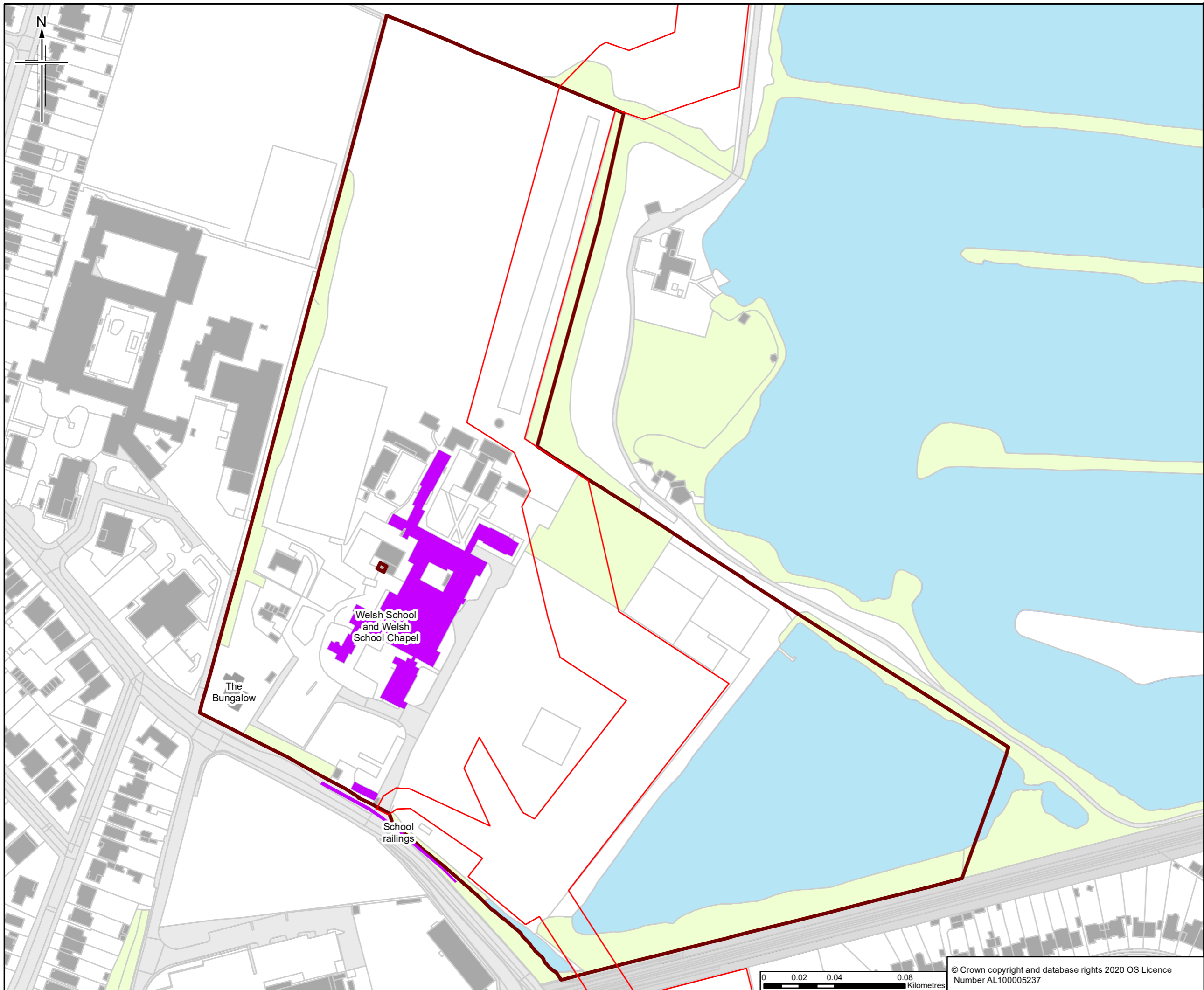
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**Figure 2: Plan Showing Listed Buildings and Curtilage Listed Buildings at St James School**



- Legend**
- Order Limits
  - Listed building
  - Other buildings
  - St James School boundary

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0	17/01/2020	For Issue	VW	SC	SC	PG

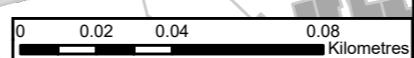
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 Ermyn House,  
 Ermyn Way,  
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**Project**  
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**Drawing title**  
 PLAN SHOWING LISTED BUILDINGS AND CURTILAGE LISTED BUILDINGS AT ST JAMES SCHOOL

Drawing Status	For Issue	
Scale	1:2,000 @ A3	DO NOT SCALE
Jacobs No.	B2325300	
ProjectWise No.	B2325300-JAC-000-GIS-DRG-001580	
Drawing number	Figure 1	Rev 0



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