



Great Harmeston Solar Farm Environmental Statement

Technical Appendix 5.5

Arboricultural Impact Assessment



Development of National Significance
Pre-Application Consultation

March 2026

Great Harmeston Solar Farm Pembrokeshire

ARBORICULTURAL IMPACT ASSESSMENT

Instructing Client:

Arise Renewable Energy UK Ltd

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1. Summary

In line with the requirements of *BS5837: Trees in Relation to Design, Demolition and Construction (2012)*, Arise Renewable Energy UK Ltd commissioned Greenwood Surveys to provide arboricultural advice in relation to a proposed development on Land west of Milford Road A4076 in Harmeston Cross, Land northeast of Deemshill and Land east and west of A477 Fairlawns, Pembrokeshire. A full arboricultural survey of the site was conducted between 11th and 19th June 2025.

The current proposed development includes the installation and operation of a renewable energy generating station comprising ground-mounted photovoltaic solar arrays, together with substation, switchgear container, inverter/transformer units, site access, internal access tracks, security measures, access gates, other ancillary infrastructure and landscaping and biodiversity enhancements. For the purpose of this report, reference to ‘the site’ refers to land encompassed by the site boundary shown on the Site Location Plan contained in **Appendix A**.

The tree survey identified a total of 301 tree features including 129 individual trees, 85 groups of trees, 84 hedgerows and three woodlands which have the potential to be impacted by the development proposals. Each tree was awarded a quality rating from A – U in accordance with the recommendations contained within Table 1 of *BS5837: Trees in Relation to Design, Demolition and Construction (2012)*. Seven tree features were categorised as high A grade (T66, T84, T85, T115, T117, G54, W1), 166 were categorised as moderate B grade, and 100 were categorised as low C grade. Twenty-eight tree features were categorised as very low quality U grade. U grade trees have less than ten years safe useful life expectancy and should not be considered a constraint to development.

Three B grade trees, part of one B grade tree group, one B grade hedgerow, part of 16 B grade hedgerows, one C grade tree, part of one C grade tree group and two U grade trees will be removed as part of the development proposals.

The presence of TPOs and Conservation Areas has not been ascertained. No tree works outside of full planning consent should be carried out without first confirming the presence or absence of statutory tree protection and obtaining the necessary consents. There are no recorded ancient woodlands or veteran trees on site, however two trees were identified as veteran during the tree survey (T84, T85) and these should be retained and protected accordingly.

2. Introduction

This report has been prepared by Greenwood Surveys on instruction from Arise Renewable Energy UK Ltd to provide a tree survey, arboricultural impact assessment and tree protection plan in accordance with *BS5837: Trees in Relation to Design, Demolition and Construction (2012)* for development proposals on Land west of Milford Road A4076 in Harmeston Cross, Land northeast of Deemshill and Land east and west of A477 Fairlawns, Pembrokeshire.

The purpose of this report is to clearly identify the significant trees and hedges that may be impacted by the development, the quality and value of the trees, the effect that the stages of the development could have on existing trees, the significance of such impact in arboricultural terms, and to suggest appropriate methods to be adopted in order to mitigate any potentially negative impacts on existing trees and hedges.

The survey was carried out between 11th and 19th June 2025 and the results are shown in **Appendix B**.

2.1 Scope of the report

This report is only concerned with trees in relation to design, demolition and construction. It includes an assessment based on the site visit and documents provided, namely the topographical survey (drawing ref: Great Harmeston - Topographical Survey 2D (Rev A)), and the proposed site plan (drawing ref: HSF-RHL-V1-00-CM-Y-0001-S0-P04). This report is not a full hazard or risk assessment of trees and should not be used as such.

Aerial tree inspection, invasive procedures, sub-soil investigations and detailed soil analysis are outside the scope of this report.

All trees directly affected by the development have been considered, even where they are situated outside of the development boundary.

2.2 Limitations

No reliance shall be placed on any comment(s) the surveyor may have made in respect of the structural integrity of any main structure or drainage system located on the premises to which this survey and report relates. The client is advised that where manmade structures are involved structural engineering and/or geotechnical advice may need to be obtained.

The Tree Constraints Plan (TCP) contained in **Appendix C** and the Tree Protection Plan (TPP) contained in **Appendix D** have been developed from the tree survey information and the tree locations marked on the topographical survey. Greenwood Surveys have not verified the accuracy of this data.

Several tree features have potential to be impacted by the development proposals but were not shown on the topographical survey. These trees have been indicatively plotted on the TPP and marked with # for identification. Their positions cannot be guaranteed. The locations and RPA extents of these trees should be confirmed on site prior to commencement of works.

The recommendations made in this report are only relevant to the layout shown on the TPP. This layout was taken from the Great Harleston Proposed Site Plan provided by Arise Renewable Energy UK Ltd in .dwg format.

Trees are living organisms and as such their condition will vary over time. This report and recommendations are limited to observations made on the date of inspection. The report and survey information are valid for a maximum period of two years.

2.3 Legal Constraints

Local Planning Authorities (LPAs) have the power to preserve selected trees and woodlands through the making of Tree Preservation Orders (TPOs). Similarly, special provision is afforded to trees located within Conservation Areas (CAs) which are not the subject of a TPO. The LPAs powers to do this are provided by the following Act of Parliament and its associated regulations:

- Town and Country Planning Act 1990
- The Town and Country Planning (Trees) Regulations 1999 (as amended by The Town and Country Planning (Trees) (Amendment) (Wales) Regulations 2017)

The principal effect of a TPO is to prohibit the cutting down, uprooting, topping, lopping, willful damage or willful destruction of trees without first obtaining the consent of the relevant Local Authority.

Where works to trees within a CA are proposed, six weeks notification must first be given to the relevant Local Authority.

Unauthorized works to trees either protected by a TPO or those that are located within a CA, could result in a fine of up to £20,000 per tree in cases heard in a Magistrates Court, or unlimited fines in cases taken to Crown Court.

The presence of TPOs and Conservation Areas has not been ascertained. No tree works outside of full planning consent should be carried out without first confirming the presence or absence of statutory tree protection and obtaining the necessary consents.

2.4 Wildlife Constraints

Various habitats and species of plant, bird and animal in England and Wales are afforded legal protection by the following pieces of legislation:

- Wildlife and Countryside Act 1981 (as amended)
- Natural Environment and Rural Communities Act 2006 (NERC Act)
- Conservation of Habitats and Species Regulations 2017 (as amended)
- Protection of Badgers Act 1992
- The Hedgerows Regulations 2024

Protected animal species include, but are not limited to Great Crested Newt, reptiles (all species), wild birds (all species), bats (all species), Red Squirrel, Hazel Dormouse, Water Vole, Badger and Otter. For birds it is an offence to take or harm them, their nests (whilst in use or being built) or their eggs.

Protected species must be considered prior to any tree or development works being carried out. Tree work and the timing of tree work should be carefully considered.

2.5 Ancient and Veteran Trees

Natural England and the Forestry Commission provide ‘standing advice’ for ancient woodland, ancient trees and veteran trees affected by development in England. These requirements are not applicable to development in Wales, however the recommendations are provided here for information and Greenwood Surveys urge that sufficient buffer zones are provided to ensure that veteran trees are retained alongside development for as long as possible.

All ancient trees are veteran trees, but not all veteran trees are ancient. The age at which a tree becomes ancient or veteran will vary by species because each species ages at a different rate. For ancient woodlands, development should have a buffer zone of at least 15 metres from the boundary of the woodland to avoid root damage. Where assessment shows other impacts are likely to extend beyond this distance, the proposal is likely to need a larger buffer zone. For example, the effect of air pollution from development that results in a significant increase in traffic.

For ancient or veteran trees (including those on the woodland boundary), the buffer zone should be at least 15 times larger than the diameter of the tree, or 5 metres from the edge of the tree’s canopy, whichever is greater. Where assessment shows other impacts are likely to extend beyond this distance, a larger buffer zone may be needed. Development resulting in the loss of irreplaceable habitat such as Ancient and Veteran trees should be avoided.

A search of Natural Resources Wales interactive mapping system and the Woodland Trust's Ancient Tree Inventory revealed that no trees on site are recorded as ancient, however the tree survey identified two veteran ash trees on site (T84, T85).

3. Tree survey methodology

3.1 Tree ID Number

Tree identification number relevant to plans and drawings included in this report.

3.2 Species

Species of tree as identified on site. The English common name is used, accompanied by the scientific species name where this is deemed necessary for clarification. In some cases it can be difficult to identify the exact species. The abbreviation 'sp.' is used where only the genus is known.

3.3 Height

Total height of tree measured to the nearest metre (or half metre for trees below 10m height) using a laser measurer or estimated where necessary.

3.4 Stem Diameter

Diameter of tree at breast height (1.5m) for single-stemmed trees. For multi-stemmed trees with 2-5 stems, each stem is measured at 1.5m above ground level and recorded, whilst for trees with 6 or more stems, an average stem diameter is recorded. Measured in mm, this figure allows calculation of the root protection area (RPA) as described in section 3.12 of this report. Off-site or otherwise inaccessible trees where accurate measurements cannot be obtained have been given estimated diameters, and these are clearly labelled within the tree schedule.

3.5 Branch Spread

Measured at 4 points (N, E, S, W) to determine shape of canopy. Measurements are rounded up to the nearest metre or half metre as appropriate. Canopy dimensions may impact on site layout or recommended routes for site vehicles and are therefore accurately represented on the accompanying plans.

3.6 Existing Canopy Height Above Ground Level

- (1a). Height in metres of the first significant branch.
- (1b). Direction of growth of the first significant branch.
- (2). Height in metres of lowest part of crown.

3.7 Life Stage

Life stage is an estimation based on outward physical appearance. It has relevance to calculating safe useful life expectancy and current ecological or amenity value.

Young (Y)

Young trees typically within the first 10 years of growth that can be easily transplanted, but as yet of limited significance in the landscape.

Semi-mature (SM)

Well established trees with significant growth but not yet mature. Trees in this category will typically have reached less than 1/3 of their life expectancy.

Early-mature (EM)

Trees in the early stages of maturity with high growth potential. These trees will typically have reached 1/3 - 2/3 of their life expectancy.

Mature (M)

Trees likely to have reached, or almost reached the maximum height and spread for the species and growing conditions. Growth rates for mature trees are generally much lower than those of younger trees.

Over-mature (OM)

Trees that have passed maturity and are either in or liable to decline. Growth is slower or crown retrenchment may be occurring. Trees in this category may have high environmental or cultural value.

3.8 General Observations

Any relevant observations are recorded, with particular reference to structural and/or physiological condition.

3.9 Preliminary Management

Recommendations are made where management work is required for reasons of health and safety or sound arboricultural management.

3.10 Estimated Remaining Contribution

This is determined by expected lifespan of the species, current life stage, structural and physiological condition. The information is used for tree categorisation and quality assessment and is recorded in bands of either <10 years, 10+ years, 20+ years or 40+ years.

3.11 Tree Category Grading

The assessment conforms to *BS5837: Trees in Relation to Design, Demolition and Construction (2012)* guidance as outlined below. Trees are also subcategorised as having mainly arboricultural value (1), landscape value (2), or cultural or conservation value (3).

Tree categorisation is based on tree condition at the time of assessment and does not consider future management proposals.

Category A

Trees of high quality and value. In such condition as to be able to make a substantial contribution to the site for a minimum of 40 years, or those with high cultural or conservation value.

Site layout should be designed to incorporate trees in this category, ensuring sufficient space is given to provide minimal conflict during construction and final development use.

Category B

Trees of moderate quality and value. In such condition as to make a significant contribution to the site, normally for a minimum of 20 years. It is highly recommended that trees in this category are retained.

Category C

Trees of low quality and value but in adequate condition to provide contribution to the site for more than 10 years. Includes young trees with a stem diameter below 150mm.

It is preferable but not essential to retain trees in this category. Young trees should be transplanted to suit site layout where practical.

Category U

Trees with serious structural defects, dead, dying, seriously diseased or in very poor condition with a likely remaining life span of less than 10 years. Trees in this category should not be considered a constraint to any development proposals.

3.12 Root Protection Area (RPA)

The RPA is the minimum area in m² which must be left undisturbed around each tree in order to avoid significant damage to the root system and ensure its survival. For ease, the equivalent radius, which should be measured from the centre of the tree, is provided.

RPAs are capped at 707 m² which is equivalent to a circle with a radius of 15m in accordance with *BS5837: Trees in Relation to Design, Demolition and Construction (2012)*.

For single stem trees, the RPA is calculated as an area equivalent to a circle with a radius 12 times the stem diameter.

For trees with 2-5 stems the combined stem diameter is calculated as follows:

$$\sqrt{(\text{stem diameter 1})^2 + (\text{stem diameter 2})^2 \dots + (\text{stem diameter 5})^2}$$

For trees with 6 or more stems the combined stem diameter is calculated as follows:

$$\sqrt{(\text{mean stem diameter})^2 \times \text{number of stems}}$$

Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area is produced. Any modifications to the shape of RPAs are highlighted in accompanying reports and plans.

The full tree survey is included as **Appendix B**.

4. Site description

The site lies between two areas of Pembrokeshire Coast National Park, either side of the A4076 Milford Road with Johnston to the north and Steynton to the south. The site comprises agricultural fields bounded by hedgerows and narrow strips of woodland. A railway line separates the southeast corner of the site from fields to the north.

Ash dieback is prevalent across the site, with ash (*Fraxinus excelsior*) being the most frequent species present, resulting in a high number of low quality trees with low life expectancy. Two veteran ash trees along with high quality mature sycamore (*Acer pseudoplatanus*) and ash woodland were identified on the west side of the site. Ground levels are sloped in numerous locations towards watercourses.



Figure 1: Veteran trees T84 (centre) and T85 (right).

5. Arboricultural Impact Assessment

5.1 Tree Quality Assessment Summary

Five individual trees, one group of trees and one woodland were recorded as high A category. Their retention should be considered imperative to the design of the development.

Sixty-four individual trees, 32 groups of trees, 69 hedgerows and one woodland were recorded as moderate B category. Reasonable effort should be made to retain these trees where possible.

Forty-three individual trees, 42 groups of trees, 14 hedgerows and one woodland were recorded as low C category. Where retention of these trees would cause undue restraint to the development, it would be reasonable to remove them as part of the development proposals.

Seventeen individual trees, 10 groups of trees and one hedgerow were recorded as very low U category and should not be considered a constraint to any development proposals.

Tree feature reference numbers and their category gradings are shown in Table 1 below.

Table 1: Tree Quality Assessment Summary

	Tree Quality Assessment Category Grading				Totals
	A	B	C	U	
Individual trees	T66 T84 T85 T115 T117	T1, T2, T4, T5, T7, T8, T10, T15, T16, T17, T21, T23, T29, T30, T34, T36, T39, T42, T43, T44, T45, T46, T47, T48, T50, T51, T52, T53, T58, T60, T61, T64, T68, T69, T70, T72, T73, T75, T76, T77, T78, T81, T82, T83, T87, T88, T93, T97, T98, T99, T101, T102, T103, T105, T109,	T3, T6, T13, T14, T18, T19, T20, T24, T25, T26, T27, T28, T32, T35, T37, T38, T40, T49, T59, T62, T65, T67, T71, T79, T80, T86, T91, T94, T95, T96, T100, T106, T107, T108, T113, T119, T120, T122, T123, T125, T129, T130, T131	T9, T22, T31, T33, T54, T55, T56, T57, T63, T74, T89, T90, T92, T104, T116, T127, T128	129

		T110, T111, T112, T114, T118, T121, T124, T126, T132			
Groups	G54	G2, G5, G6, G8, G9, G13, G15, G16, G21, G29, G33, G34, G36, G38, G39, G40, G41, G45, G47, G50, G55, G57, G59, G61, G62, G65, G69, G72, G74, G75, G83, G86	G1, G3, G7, G10, G11, G12, G14, G17, G20, G22, G23, G26, G28, G30, G31, G32, G37, G42, G43, G46, G48, G49, G56, G60, G63, G64, G66, G67, G68, G70, G73, G76, G77, G78, G79, G80, G81, G82, G84, G85, G87, G88	G4, G19, G27, G35, G44, G51, G52, G53, G58, G71	85
Hedgerows	None	H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, H11, H13, H14, H15, H16, H17, H18, H20, H21, H22, H23, H24, H25, H26, H27, H28, H30, H31, H32, H33, H34, H36, H37, H38, H41, H43, H44, H45, H46, H47, H48, H50, H51, H53, H54, H55, H56, H60, H61, H62, H63,	H12, H35, H40, H42, H49, H57, H58, H59, H65, H66, H80, H83, H85, H87	H29	84

		H64, H67, H68, H69, H70, H71, H72, H73, H74, H75, H76, H77, H78, H79, H81, H82, H84, H86			
Woodlands	W1	W3	W2	None	3
Totals	7	166	100	28	301

5.2 Proposed Tree Works

All tree work and felling operations will be carried out in accordance with *BS3998: Recommendations for Tree Work (2010)*; current industry guidelines; best practice; and all relevant health and safety standards. Tree work is a specialist task that requires operatives to be appropriately skilled, qualified, and insured.

5.2.1 Existing Trees Proposed for Removal

Two B grade trees, part of one B grade tree group, one B grade hedgerow and part of 16 B grade hedgerows will be removed to facilitate new access tracks and site fencing. One C grade tree will be removed to as it is directly beneath the footprint of proposed solar panels and part of one C grade tree group will be removed to facilitate new access tracks and site fencing. Two U grade trees will be removed as they will be impacted by new access tracks and their poor condition makes them unsuitable for retention.

Table 2: Trees to be removed

	Tree Quality Assessment Category Grading				Totals
	A	B	C	U	
Individual trees	None	T17, T76	T122	T57, T63	5
Groups	None	G47 (in part)	G7 (in part)	None	2
Hedgerows	None	H7 (in part), H8 (in part), H15, H16 (in part), H17 (in part),	None	None	17

		H23 (in part), H30 (in part), H32 (in part), H34 (in part), H51 (in part), H54 (in part), H56 (in part), H57 (in part), H60 (in part), H61 (in part), H62 (in part), H84 (in part)			
Woodlands	None	None	None	None	0
Totals	0	20	2	2	24

5.2.2 Facilitation pruning

Facilitation pruning will be required to allow adequate working space around the development, and for installation of the site access tracks without causing damage to branches of retained trees. Table 3 below sets out which trees are impacted and the extent of pruning required. Pruning should take place only above the locations where access is required unless otherwise specified.

Table 3: Details of facilitation pruning required

Impact	Tree Quality Assessment Category Grading				Totals
	A	B	C	U	
Trees, groups, hedgerows and woodlands to be crown lifted to 5m height to facilitate construction of new access tracks	T66	T61, T64	T62, T65 G46	None	6

5.3 Mitigation planting

National Planning Policy in Wales (PPW) requires that every development delivers a net benefit for biodiversity. Paragraph 6.4. of PPW 12th Edition states that the planning system must ensure development results in a net benefit for biodiversity and ecosystem resilience to enhance well-being.

It defines a net benefit as development leaving “biodiversity and the resilience of ecosystems in a significantly better state than before, through securing immediate and long term, measurable and demonstrable benefit, primarily on or immediately adjacent to the site.”

Where adverse effects cannot be avoided, minimised, mitigated/restored, or compensated for as a last resort, planning permission will be refused (para. 6.4.4). The onus is on the developer to demonstrate how their proposals will deliver a net benefit, including evidence of long-term site management and resources (para. 6.4.8).

The policy at 6.4.16 states “there must be a proactive process to look for and secure enhancement through the design and implementation of the development.”

PPW does not necessarily require the replacement of onsite trees and further advice should be sought from an ecologist on how net benefit for biodiversity can be achieved.

Any proposals for replacement planting should consider the space available to allow trees to grow to their maximum mature height and spread without competing with existing trees or other new tree planting.

5.4 Retained Trees Requiring Protection Due to Their Proximity to Proposed Work Areas

A summary of those trees impacted by works taking place within their RPA is provided in Table 4 below. Further detail on recommended protection measures is provided in the following paragraphs. The only impacts to retained trees are towards the west side of the site where a new access track will be constructed around the perimeter of a farmyard.

Table 4: Trees affected by works taking place within RPA

Works taking place within RPA	Tree Quality Assessment Category Grading				Totals
	A	B	C	U	
Trees, groups, hedgerows and woodlands with new access track within RPA	T66	T58, T61, T64	T59, T62, T65 G46	None	8

5.4.1 Tree Protection Fencing

In order to adequately protect both the below and above ground parts of the tree, including stems and canopies, temporary tree protection fencing will be installed in the location shown on the TPP in **Appendix D**. Tree protection fencing will be installed before any materials or machinery are brought onto site and before site works commence. The fencing must remain intact until all works are complete or at a time agreed with the local planning authority (LPA).

It is proposed that permanent 2m high site security fencing will be installed instead of temporary tree protection fencing wherever possible. This is because the majority of work will take place outside RPAs and canopies of retained trees and the size of the site would require a vast amount of temporary fencing. Security fencing will be installed before any other works take place, and permanent security fencing will adequately separate trees from the work site. If security fencing cannot be installed before other works take place, additional temporary tree protection fencing will be required.

Where trees will not be separated from the work site by permanent fencing the following specification will apply. Fencing will consist of 2m tall welded mesh panels (Heras fencing or similar) fixed to the ground via vertical tubes driven into the ground until secure. These tubes will be spaced at a maximum interval of 3m. Each panel will be secured to its neighbour with a minimum of 2 anti-tamper couplers. Where space allows, the panels will be supported on the inner side by stabilizer struts which are attached to a base plate and secured with ground pins. An example of suitable tree protection fencing is shown in Figure 2 below.

Inside the protective fencing there will be no excavations; no storage of machinery, building materials, fuels, chemicals, or spoil; no fires; no vehicular or pedestrian access; no alteration to existing ground levels. The barriers will be accessed to allow hedgerow planting only and otherwise will not be moved or temporarily dismantled unless agreed with the appointed Arboricultural Consultant and the LPA.

To clearly identify the purpose of protective fencing on site, all-weather notices will be attached to the barriers similar to the example shown in Figure 3 below.

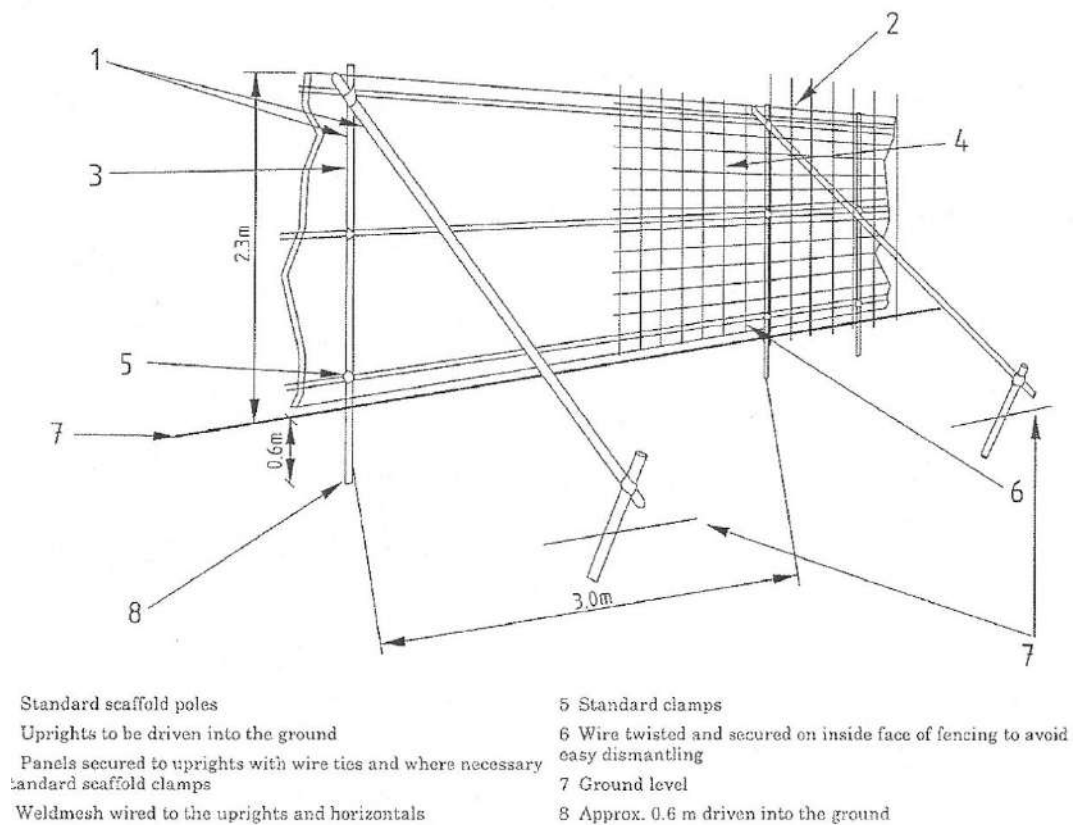


Figure 2: Tree protection fencing example



Figure 3: All-weather notice example

5.4.2 Construction of access tracks

A new access track will be constructed within the RPA of one A grade tree (T66), three B grade trees (T58, T61, T64), three C grade trees (T59, T62, T65) and one C grade tree group (G46). To prevent damage to the roots of these trees, where the access track is constructed on unsurfaced ground within RPAs, it will be constructed using no-dig surfacing. A permeable surface will be used, and it will be necessary to incorporate a load suspension system similar to the 3D cellular confinement system outlined in **Appendix E**.

To allow installation of the cellular confinement system, the prepared surface must be reasonably even. If ground levels must be raised within the RPA of retained trees to accommodate dips and changes in the existing ground levels, this should be achieved by the use of a granular material which does not inhibit vertical gaseous diffusion. Examples of suitable granular materials include, no-fines gravel, washed aggregate, or cobbles. Localised depressions may be filled with sharp sand. The area must not be rolled or consolidated.

A layer of geotextile fabric will be installed across the area. It may be necessary to lightly pin the geotextile in place until the overlying layers are installed.

The cellular confinement system should then be placed over the geotextile fabric layer and fixed in place using steel pins. During this process tree root damage and soil compaction must be avoided. In order to adequately support access for emergency vehicles and refuse collection up to a 30t gross weight, the cellular confinement system should be a minimum of 150mm height. For construction vehicles up to 60t gross weight, the cellular confinement system must be increased to 200mm height. The cellular confinement system may be layered in order to obtain the desired levels for the access road.

The cells must be filled with clean, open graded angular aggregate, normally in the particle size range of 5mm - 45mm. Single sized or rounded aggregate must not be used. The project engineer may determine alternative fill materials such as clean 4/20 or 4/40 stone or a reduced-fines DoT Type 1X sub-base. It is not acceptable to use a standard DoT Type 1 Sub-base within the cells for tree root protection due to small particle content (<5mm). The surface must not be rolled and the filled cells must not be contaminated with site debris, soil or mud.

New kerbing will be installed at an appropriate height for the total layer profile of the access road. Excavations necessary for the installation of kerbs and haunching will be carried out using hand tools or air spade in order to identify any impacted structural roots. A minimum 50mm distance will be maintained between any identified structural roots and any kerbs or haunching. Where necessary, a section of haunching will be left out to bridge over structural roots.

Once the cellular confinement system is installed as above, a surface layer of permeable asphalt will be installed.

5.4.3 Arboricultural Supervision

The requirement for and frequency of arboricultural supervision will be at the discretion of the LPA. Arboricultural supervision may be required for the duration of any excavation works taking place within the RPA of retained trees.

5.5 Other considerations

5.5.1 Storage of Materials

Materials will be stored either outside the RPA of retained trees, on existing hard surfacing.

5.5.2 Fuels and Chemicals

To reduce the risk of soil contamination and subsequent damage to tree roots, fuel and other harmful or toxic materials should be stored either off-site, in bunded units, or on drip trays.

5.5.3 Level changes

No level changes other than those outlined above will take place within the RPA of retained trees. Under no circumstances will mechanical topsoil stripping take place within the RPA of retained trees.

5.5.4 Construction vehicle access

Construction vehicles will not be driven onto unsurfaced areas of ground within the RPA of any retained trees.

5.5.5 Utilities

Greenwood Surveys have not been made aware of the locations of any proposed underground utility connections other than those outlines in section 5.4 above. The following services should not be positioned within the RPA of any retained trees:

- *Foul and surface water drains, Land drains, Soakaways, Gas, Oil, Electricity, Telephone, Lighting, Signage*

If additional services must unavoidably be installed within the RPA's of retained trees, the locations of these should be chosen in consultation with the appointed Arboricultural Consultant and agreed in writing with the Local Planning Authority. Underground services should be installed using trenchless techniques such as directional drilling, moling, or laser guided boring. Alternatively manual excavation through hand-digging, airspade, or vacuum excavation may be carried out under an arboricultural watching brief.

6. Conclusions

The tree survey undertaken on Land west of Milford Road A4076 in Harmeston Cross, Land northeast of Deemshill and Land east and west of A477 Fairlawns, Pembrokeshire between 11th and 19th June 2025 identified a total of 301 tree features including 129 individual trees, 85 groups of trees, 84 hedgerows and three woodlands which could be impacted by the development proposals. Seven tree features were categorised as high A grade (T66, T84, T85, T115, T117, G54, W1), 166 were categorised as moderate B grade, and 100 were categorised as low C grade. Twenty-eight tree features were categorised as very low quality U grade. U grade trees have less than ten years safe useful life expectancy and should not be considered a constraint to development.

The presence of TPOs and Conservation Areas has not been ascertained. No tree works outside of full planning consent should be carried out without first confirming the presence or absence of statutory tree protection and obtaining the necessary consents. Two trees were identified as veteran during the tree survey (T84, T85) and these will be retained and protected accordingly.

Two B grade trees, part of one B grade tree group, one B grade hedgerow, part of 16 B grade hedgerows, one C grade tree, part of one C grade tree group and two U grade trees will be removed as part of the development proposals.

The only impacts to retained trees are towards the west side of the site where a new access track will be constructed around the perimeter of a farmyard. Special measures are recommended in order to protect trees retained on site from the impact of access track construction. Recommended mitigation measures include facilitation pruning and use of no-dig surfacing.

Greenwood Surveys are satisfied that the proposals are sympathetic to the arboricultural value of the site, and if the recommendations in this report are followed, the proposed development can be achieved while allowing successful integration of those trees identified for retention.

Appendix A Site Location Plan

Operational
Solar Farm

Site
Boundary

Site
Boundary

Site
Boundary

Site
Boundary

Rosemark

JORDANSTON

Stevnton

Appendix B Tree Survey

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
T1	Sycamore	14	450					5	5	5	5	2	S	3	Mature	Growing in private garden at bottom of bank adjacent to grass track. Good vitality. Diameter estimated.	None	40+	B	1	91.6	5.4
T2	Sessile oak	15	450					5	5	5	5	2	S	2	Mature	Growing to corner of field. Good vitality.	None	40+	B	1	91.6	5.4
T3	Common ash	11	300					4	4	4	4	3	S	3	Semi-mature	In decline. Canopy has uniform shape. Growing south of surfaced access track.	None	10+	C	1	40.7	3.6
T4	Sycamore	14	685.86	(Calculated from average: 6+ stems)				4	7	3	2	1	E	3	Mature	Growing west side of mound adjacent to track. Multi-stemmed at ground level. Windswept with canopy bias to east. Pruned back over track.	None	40+	B	2	212.8	8.2
T5	Sessile oak	8	550					7	8	9	2	2	E	2	Mature	Growing in hedgerow and leaning east over track. Cavity at base of north limb.	None	40+	B	2	136.9	6.6
T6	Sycamore	8	244.95	(Calculated from average: 6+ stems)				1	2.5	2	0.5	3	S	5	Young	Growing in hedgerow in close proximity to power lines. Low value.	None	20+	C	1	27.1	2.9
T7	Sycamore	10	300					4	4	3	4	0.5	W	1	Early-mature	Growing against fence on railway land. Good vitality.	None	20+	B	1	40.7	3.6
T8	Common ash	9	293.94	(Calculated from average: 6+ stems)				5	5	5	5	0.5	E	0.5	Mature	Multi-stemmed at approximately 0.5m height. Ivy covered.	None	20+	B	2	39.1	3.5
T9	Common ash	10	300					2	2	2	2	1.5	W	4	Mature	Dying ash with less than 10% live growth remaining.	None	<10	U		40.7	3.6
T10	Sycamore	12	848.53	(Calculated from average: 6+ stems)				6	6	6	6	0.5	W	1	Mature	Growing north side of fence on railway land. Approximately 2m from fence line. Multi-stemmed at ground level.	None	20+	B	2	325.8	10.2
T13	Sycamore	8	300					4	4	4	3	2	E	2	Semi-mature	In decline with low life expectancy. Growing in hedgerow. Diameter estimated.	None	10+	C	1	40.7	3.6
T14	Sessile oak	10	200					2	4	3	2	3	E	4	Young	In decline. Growing in hedgerow. Diameter estimated.	None	10+	C	1	18.1	2.4
T15	Common ash	17	800					9	9	4	9	1.5	W	3	Over-mature	Large ash set back from fence line by 8.5m. Ivy covered. Some dieback. Stem leans to west.	None	20+	B	1	289.6	9.6
T16	Sycamore	12	300	300				5	5	5	5	1	S	1	Mature	Surveyed from afar. All measurements estimated. Growing along track below level of highway. Grey willow to north.	None	20+	B	2	81.4	5.1
T17	Sessile oak	7	400					5	7	5	6	1	N	3	Mature	Growing on raised mound. Slightly unbalanced canopy with bias to east. Good vitality.	None	20+	B	1	72.4	4.8
T18	Common hawthorn	4	200					2	2	2	2	1	S	1	Semi-mature	Single hawthorn tree growing at end of hawthorn hedgerow.	None	20+	C	1	18.1	2.4
T19	Sycamore	5	150					2	2	2	2	1	E	1	Young	Young tree growing in hedgerow. Low value due to small size.	None	20+	C	1	10.2	1.8
T20	Pedunculate oak	5	150					3	3	3	3	1	E	1	Young	Young tree growing in hedgerow. Low value due to small size.	None	20+	C	1	10.2	1.8
T21	Sycamore	8	300					3	3	3	3	1.5	N	1.5	Semi-mature	Slight lean to south. Good vitality. Part of linear row of trees.	None	40+	B	1	40.7	3.6
T22	Sycamore	15	550					9	9	9	9	2	S	3	Mature	Large dead tree.	None	<10	U		136.9	6.6
T23	Sycamore	12	320					5	2	2	7	2	N	2.5	Early-mature	Leans heavily to north but canopy has good vitality.	None	20+	B	1	46.3	3.8
T24	Common ash	17	600	600				4	6	5	3	4	S	5	Mature	Growing to end of tree group. Steep drop in ground levels to west. Diameters estimated. Stem bifurcates at approximately 1.8m height. Lichen and moss on stem. In decline.	None	10+	C	1	325.8	10.2

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m ²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
T25	Common ash	17	300	500	350	350		8	8	3	6	4	S	5	Mature	Growing to end of tree group. Steep drop in ground levels to west. Diameters estimated. Multi-stemmed at ground level. In decline.	None	10+	C	1	264.7	9.2
T26	Grey willow	4	150					2	2	2	2	1	E	1	Semi-mature	Low value tree growing near to gate.	None	20+	C	1	10.2	1.8
T27	Grey willow	4	150					2	2	2	2	1	N	1	Semi-mature	Low value tree growing near to gate.	None	20+	C	1	10.2	1.8
T28	Common ash	12	290	250	220			6	3	4	2	1	N	3	Early-mature	In decline. Multi-stemmed at ground level. Windswept with upper canopy bias towards north.	None	10+	C	1	88.2	5.3
T29	Elder	5	400					3	4	2	3	0	S	0.5	Over-mature	Large size for species. Some minor deadwood and ivy to south but good condition for age.	None	40+	B	1	72.4	4.8
T30	Sycamore	12	470					10	10	10	9	2	N	2.5	Mature	Large mature tree growing west of fence. Good vitality.	None	20+	B	1	99.9	5.6
T31	Common ash	8	300	300				3	5	4	4	1.5	E	4	Mature	Dying tree with only live epicormic growth remaining.	None	<10	U		81.4	5.1
T32	Common hawthorn	8	293.94	(Calculated from average: 6+ stems)				3	3	3	2	0.5	W	4	Mature	Growing beneath power lines. Base obscured by vegetation. All measurements estimated.	None	20+	C	1	39.1	3.5
T33	Common ash	11	300					1	5	5	3	0	E	5	Semi-mature	In decline with limited life expectancy. Does not overhang field. Growing on railway land.	None	<10	U		40.7	3.6
T34	Common ash	17	320					1	9	9	5	2	S	1.5	Mature	Set back from field edge by approximately 10m. Suppressed on north side by adjacent mature ash. Canopy weighted to east. Growing at bottom of bank. Canopy does not overhang field. Diameter estimated.	None	20+	B	1	46.3	3.8
T35	Common ash	17	550					6	10	10	7	3	N	0	Mature	Set back from field edge by approximately 10m. In decline with approximately 40% live growth remaining. Diameter estimated. Canopy does not overhang field. Growing at bottom of bank. Low life expectancy.	None	10+	C	1	136.9	6.6
T36	Sycamore	9	600	(Calculated from average: 6+ stems)				6	6	6	6	1	N	4	Mature	Multi-stemmed at ground level. Growing west side of hedgerow. Good vitality.	None	20+	B	1	162.9	7.2
T37	Common ash	12	250					3	5	3	3	2.5	N	4	Semi-mature	Dead tree to west. Windswept with canopy bias to east. Low arboricultural value.	None	20+	C	1	28.3	3.0
T38	Common ash	16	350					6	10	6	4	4	N	3	Mature	Third party tree. Diameter estimated. Canopy in decline with major deadwood to north.	None	10+	C	1	55.4	4.2
T39	Sycamore	9	300					3	4	4	4	1	E	3	Early-mature	Tree with good vitality growing in hedgerow. Diameter estimated.	None	20+	B	1	40.7	3.6
T40	Sycamore	6	200					1	1.5	1	1.5	1	E	5	Early-mature	Growing in hedgerow. Diameter estimated. Thinning canopy and low life expectancy. Dead tree to east.	None	10+	C	1	18.1	2.4
T42	Sycamore	15	450					3	6	3	3	2	E	5	Mature	Growing on property boundary. Suckers at base.	None	20+	B	2	91.6	5.4
T43	Common ash	19	450					3	6	3	3	5	W	7	Mature	Growing on raised bank. Ivy on stem.	None	20+	B	2	91.6	5.4
T44	Common ash	19	550					6	6	4	6	3	E	5	Mature	Growing on raised bank. Ivy on stem. In decline.	None	20+	B	2	136.9	6.6
T45	Sycamore	12	250					2	5	3	4	2	E	4	Mature	Growing on raised mound. Suckers at base.	None	20+	B	2	28.3	3.0
T46	Common ash	16	500					2	8	6	3	5	S	5	Mature	Growing on raised bank. In decline. Branch splits with exposed heartwood on south side.	None	20+	B	2	113.1	6.0

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m ²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
T47	Common ash	15	500					3	8	6	6	4	S	4	Mature	Broken branch stubs. Ivy on stem.	None	20+	B	2	113.1	6.0
T48	Sycamore	13	320					2	5	6	4	4	S	5	Mature	Suckers at base. Growing in close proximity to utility pole.	None	20+	B	2	46.3	3.8
T49	Horse chestnut	10	250	250				2	2	2	2	1.5	S	2.5	Early-mature	Third party garden tree. Reduced.	None	20+	C	1	56.6	4.2
T50	Corsican pine	17	700					5	7	5	3	3	W	3	Mature	Large ornamental tree growing on third party land. High canopy clearance on east side.	None	20+	B	2	221.7	8.4
T51	Corsican pine	17	550					5	2	4	5	3	W	5	Mature	Large ornamental tree growing on third party land. Canopy suppressed on east side.	None	20+	B	2	136.9	6.6
T52	Monterey cypress	11	450					4	5	4	3	2	W	2.5	Early-mature	Third party ornamental garden tree. Moderate quality.	None	20+	B	2	91.6	5.4
T53	Monterey cypress	10	450					4	3	4	4	2	W	2.5	Early-mature	Third party ornamental garden tree. Moderate quality.	None	20+	B	2	91.6	5.4
T54	Common ash	15	350					2	6	4	4	4	S	6	Mature	Dying ash. Live epicormic growth only.	None	<10	U		55.4	4.2
T55	Common ash	12	300					5	6	5	2	3	E	6	Mature	Dying ash. Live epicormic growth only.	None	<10	U		40.7	3.6
T56	Common ash	14	350					4	6	4	3	3	E	6	Mature	Dying ash. Live epicormic growth only.	None	<10	U		55.4	4.2
T57	Common ash	15	480					6	6	5	5	3	W	5	Mature	Dying ash. Approximately 10% live growth remaining.	None	<10	U		104.2	5.8
T58	Sycamore	11	300					5	6	3	3	3	N	4	Semi-mature	Growing north side of hedge bank. Good condition.	None	20+	B	1	40.7	3.6
T59	Common ash	15	480					5	6	5	3	3	E	5	Mature	Dying ash. Approximately 50% live growth remaining. Set back from hedge by approximately 4 meters.	None	10+	C	1	104.2	5.8
T60	Common hawthorn	4	150					2	2.5	2	2	1.5	W	3	Semi-mature	Tree with good vitality growing south of hedgerow.	None	20+	B	1	10.2	1.8
T61	Sycamore	15	424.26	(Calculated from average: 6+ stems)				5	4	4	5	0.5	W	3	Mature	Tree with good vitality. Multi-stemmed at 0.5 meters height. Growing on top of hedge bank.	None	20+	B	1	81.4	5.1
T62	Common hawthorn	5	130	100	120			1	2.5	2.5	0.5	0	E	2	Semi-mature	Growing on hedgebank. Suppressed with thinning canopy.	None	10+	C	1	18.7	2.4
T63	Common ash	14	800					4	4	6	8	3	N	5	Mature	Dying ash. Approximately 10% live growth remaining. Large cavity at base. Limited life expectancy.	None	<10	U		289.6	9.6
T64	Sycamore	12	300	300				6	5	5	4	0	N	2	Mature	Growing on hedge bank. Multi-stemmed at ground level.	None	20+	B	1	81.4	5.1
T65	Common ash	13	580					2.5	9	5	0.5	3	N	2	Mature	Tree lens heavily to east. Good amenity value but low life expectancy.	None	10+	C	1	152.2	7.0
T66	Sycamore	15	300	450	250			7	7	5	5	2	S	2	Mature	Large imposing tree with good vitality.	None	40+	A	1	160.6	7.1
T67	Elder	5	120					1	0.5	1	1	2	N	2	Young	Young low value tree. Dead tree to east.	None	10+	C	1	6.5	1.4
T68	Common ash	15	320	450	250			5	7	4	3	2	W	2	Mature	Glowing on hedge bank. Some dieback to west. Overall good canopy vitality. Open cavity on north side of main stem. Limited reaction growth.	None	20+	B	1	166.2	7.3

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area		
			(mm)					(m)				(m)									(m²)	(radius in m)	
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)									
T69	Common ash	14	550					5	7	6	2	5	W	4	Mature	Ivy covered stem. Canopy bias to east. Some minor deadwood. Diameter estimated.	None	20+	B	2	136.9	6.6	
T70	Common ash	14	300	610				6	5	4	5	2	E	3	Mature	Large imposing tree. Many snapped branches. Canopy thinning.	None	20+	B	2	209.1	8.2	
T71	Common ash	9	330					4	4	2	2	2	N	3	Semi-mature	Canopy suppressed on south side. Ivy covered stem. Thinning canopy. Evidence of snapped branches.	None	20+	C	1	49.3	4.0	
T72	Sycamore	14	489.9	(Calculated from average: 6+ stems)					5	5	4	4	0	E	2.5	Mature	Lapsed coppice. Good vitality. Some canopy thinning to east side.	None	20+	B	1	108.6	5.9
T73	Sycamore	14	360	360				5	7	5	3	2	W	3	Mature	Windswept with canopy bias to east. Growing at bottom of bank north of ditch.	None	20+	B	1	117.3	6.1	
T74	Common ash	15	680					4	5	9	11	3	W	5	Mature	Large mature tree on edge of fence line. Small diameter ivy on stem. Approximately 10% live growth remaining.	None	<10	U		209.2	8.2	
T75	Sycamore	15	650					3	10	10	7	5	S	5	Mature	Large mature tree at edge of field crossing. Small diameter ivy on stem. Canopy has good vitality.	None	20+	B	1	191.2	7.8	
T76	Sycamore	15	420	420				5	7	6	3	4	E	3	Mature	Leaning east across water course. Some minor deadwood. Growing south side of field crossing.	None	20+	B	1	159.6	7.1	
T77	Sycamore	17	400	280	500	450		8	6	8	7	3	N	5	Mature	Large mature tree growing on field edge. Multi-stemmed at ground level.	None	20+	B	1	312.6	10.0	
T78	Sycamore	15	460					5	1	7	5	4	S	5	Mature	Tree with good vitality growing at end of hedgerow. Canopy bias to south. Snapped dead stem to east and west.	None	20+	B	1	95.7	5.5	
T79	European beech	7	200	200	200	200		2.5	4	2	2	1.5	W	4	Early-mature	Ivy covered tree. Possibly lapsed coppice. In decline. Low arboricultural value.	None	20+	C	1	72.4	4.8	
T80	Common hawthorn	4	200					2	2	2	2	0.5	N	3	Semi-mature	Low value tree growing in hedgerow.	None	10+	C	1	18.1	2.4	
T81	Common ash	18	910					9	11	5	5	3	W	2	Over-mature	Very large imposing tree growing in hedgerow. Small diameter ivy on stem. In decline with reduced life expectancy otherwise would be	None	20+	B	2	374.7	10.9	
T82	Sycamore	11	300					5	3	3	4	0	S	3	Early-mature	Good vitality. Suckers at base.	None	20+	B	1	40.7	3.6	
T83	Common ash	15	480					6	5	1	5	0	E	3	Mature	Stem cavity at base south side. Electric fence pinned to stem. In decline.	None	20+	B	1	104.2	5.8	
T84	Common ash	17	700	600	610			10	10	5	7	3	W	1.5	Veteran	Very large imposing tree. Moss covered. Likely historic overgrown coppice. Ancient tree that should be protected accordingly. Large above ground roots. Small cavity at base south side. In decline.	None	40+	A	3	552.9	16.6	
T85	Common ash	12	150	240				3	3	4	4	2	W	1.5	Veteran	Surviving on thin cambium layer. East side of stem completely decayed below stem division point. Aerial roots compensating for stem decay.	None	40+	A	3	36.2	4.2	
T86	Sycamore	12	510					3	6	5	3	4	S	2.5	Mature	Small split stem to west. Some canopy die back east side. Large cavity at base. Limited life expectancy.	None	10+	C	1	117.7	6.1	
T87	Common ash	12	470					1	2	6	4	5	E	3	Mature	Large dead limb to west. Epicormics on east side of stem. Remaining canopy in decline. Stem leans to west. Growing on incline.	None	20+	B	3	99.9	5.6	
T88	Common ash	16	600					5	0.5	5	9	5	W	5	Mature	Cavity at base west side. Upper stem leans to west. Mature ivy on stem. Growing on slight incline.	None	20+	B	3	162.9	7.2	
T89	Common ash	13	380					4	3	2	2	6	E	6	Mature	Dead tree with Daldinia concentrica along stem.	Fell if within falling distance of development.	<10	U		65.3	4.6	
T90	Common ash	15	350	350				6	2	0.5	4	3	W	1.5	Mature	Growing in nettles. Diameter estimated. Good form but very low life expectancy. Less than 20% live growth remaining.	None	<10	U		110.8	5.9	

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
T91	Sycamore	15	350	350				2	2	1	6	1	W	1	Mature	Growing in nettles. Diameter estimated. Good form but will be exposed when dying ash to north fails.	None	10+	C	1	110.8	5.9
T92	Common ash	17	940					8	4	7	9	4	N	5	Over- mature	Hollowing in stem. Aerial roots. Large cavity at approximately 2 meters height. In decline with less than 10% live growth remaining. Could be retained as standing deadwood with reduction.	Reduce height to 10m or lower and retain as standing deadwood.	<10	U		399.8	11.3
T93	Sycamore	18	310	530	530	300		7	5	5	7	4	W	2	Mature	Multi-stemmed at ground level. Good canopy vitality. Growing at woodland edge.	None	20+	B	2	338.4	10.4
T94	Common ash	14	350	350				3	5	4	3	0	W	3	Mature	In decline. Base obscured by ivy and vegetation. Diameter estimated.	None	10+	C	1	110.8	5.9
T95	Common ash	12	400					5	6	5	6	1.5	W	1	Mature	Good form but in decline. Watercourse to north.	None	10+	C	1	72.4	4.8
T96	Sycamore	12	290	420	300			3	6	3	3	2.5	E	2	Mature	Growing on raised area of ground adjacent to track. Canopy bias to south. Low amenity value.	None	20+	C	2	158.6	7.1
T97	Sycamore	12	300					4	4	2	4	3	N	2	Mature	Moderate quality tree with good form and vitality. Attached deadwood in the form of decaying stem at approximately 1m height west side. Growing alongside track. Wire to west.	None	20+	B	2	40.7	3.6
T98	Sycamore	12	290	420	300			3	4	5	5	3	S	2	Mature	Moderate quality tree with good form and vitality. Multi-stemmed at approximately 0.5m height. Growing alongside track. Wire to west.	None	20+	B	2	158.6	7.1
T99	Common ash	15	734.85	(Calculated from average: 6+ stems)				7	8	10	9	1	W	1	Mature	Lapsed hedgerow coppice. Some dieback but majority of canopy still in good condition. Growing on hedgebank.	None	20+	B	1	244.3	8.8
T100	Common ash	17	800					8	8	8	8	3	W	2.5	Over- mature	Large diameter snapped limb to east. Good landscape contribution but low life expectancy.	None	10+	C	1	289.6	9.6
T101	Sycamore	12	450					7	4	7	7	2.5	N	2.5	Mature	Moderate quality tree pruned back over track.	None	20+	B	1	91.6	5.4
T102	Sycamore	13	700					5	6	8	5	0	N	2.5	Mature	Moderate quality tree growing on hedgebank. Suckers at base obscuring stem. Diameter estimated.	None	20+	B	1	221.7	8.4
T103	Sycamore	9	280					3	4	3	3	1.5	E	1.5	Mature	Growing in hedgerow. Diameter estimated. Moderate amenity value.	None	20+	B	2	35.5	3.4
T104	Common ash	12	400					3	3	4	4	2	E	3	Mature	Dying ash growing in hedgerow. Low life expectancy.	None	<10	U		72.4	4.8
T105	Common ash	14	350	350				5	5	5	5	5	E	5	Mature	Ivy covered stems. Diameter estimated. Canopy has good vitality with minor dieback.	None	20+	B	1	110.8	5.9
T106	Common ash	14	450					4	5	5	6	2	N	4	Mature	Growing on hedgebank. In decline. Canopy does not overhang road.	None	10+	C	1	91.6	5.4
T107	Common ash	14	250	350				3	5	5	5	2	N	4	Mature	Growing on hedgebank. In decline. Canopy does not overhang road.	None	10+	C	1	83.7	5.2
T108	Common ash	5	580					0.5	2	0.5	0.5	1.5	E	4	Mature	Growing on hedgebank. Collapsed tree with live epicormic and sucker growth only.	None	20+	C	1	152.2	7.0
T109	Common ash	13	848.53	(Calculated from average: 6+ stems)				9	9	9	9	1	E	0.5	Mature	Collection of ash stems, multi-stemmed at ground level. Canopy generally in good condition with some dieback to north.	None	20+	B	2	325.8	10.2
T110	Monterey cypress	15	400					5	3	3	5	2	N	2	Mature	Tall tree with moderate landscape value.	None	20+	B	2	72.4	4.8
T111	Monterey cypress	15	480	400	450			4	5	6	5	2	S	2	Mature	Tall tree with moderate landscape value. Diameter estimated. Some decline in upper canopy.	None	20+	B	2	268.3	9.2

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
T112	Common ash	12	734.85	(Calculated from average: 6+ stems)				5	5	5	5	1.5	N	2	Mature	Multi-stemmed at ground level. Growing at corner of field entrance. Good vitality. Moderate amenity value.	None	20+	B	1	244.3	8.8
T113	Common ash	15	850					7	2	5	10	3	E	4	Mature	Very large mature tree growing in hedgerow. Diameter estimated. In decline with some dieback. Would be moderate or high quality but low life expectancy reduces categorisation to C grade.	None	10+	C	2	326.9	10.2
T114	Sycamore	12	550					4	7	4	6	2	S	4	Mature	Growing in highway verge behind hedgerow. Diameter estimated. Suckers at base.	None	20+	B	2	136.9	6.6
T115	Common ash	12	360	500	300	450	480	6	9	9	6	0	E	2.5	Mature	Mature lapsed coppice with very large limbs. Broken branches and branch stubs. Exposed heartwood in limbs. High ecological value.	None	40+	A	3	408.3	11.4
T116	Common ash	16	650					8	7	9	6	2	N	4	Mature	Large tree in decline with approximately 10% live growth remaining.	None	<10	U		191.2	7.8
T117	Common ash	16	990					6.5	7	4	7	1.5	S	0	Mature	Cavity in stem with exposed heartwood east side. Split limb to south.	None	40+	A	2	443.4	11.9
T118	Common ash	14	320	560				5	5	6	7	3	N	5	Mature	Mature moderate quality tree.	None	20+	B	2	188.2	7.7
T119	Common hawthorn	4	200	200				3	3	3	3	0.5	W	2	Early-mature	Growing at end of hedgerow. Low arboricultural value.	None	20+	C	1	36.2	3.4
T120	Common hawthorn	3	200					2	2	1	2	0.5	W	2	Early-mature	Growing at end of hedgerow. Low arboricultural value. Live growth to upper canopy only.	None	20+	C	1	18.1	2.4
T121	Common ash	14	810					10	7.5	10	9	2	N	2	Over-mature	Very large mature tree with balanced canopy. Some minor and major deadwood. Included bark and some splitting at branch division point on east	None	20+	B	2	296.9	9.7
T122	Common ash	12	710					7	7	7	6.5	1	S	1	Mature	Growing at bottom of slope. Significant decay at base resulting in wide above ground structural root plate. In decline. Low value due to limited life expectancy.	None	10+	C	1	228.1	8.5
T123	Common ash	10	400	400				5	5	6	5	2	N	3	Mature	Growing in hedgerow. Diameter estimated. In decline with limited life expectancy.	None	10+	C	1	144.8	6.8
T124	Sycamore	11	300	300				5	5	5	5	1.5	N	2	Early-mature	Good vitality and moderate amenity value. Diameter estimated.	None	20+	B	2	81.4	5.1
T125	Sessile oak	5	250					2	4	1.5	2	1.5	W	0	Early-mature	Growing in hedgerow. Diameter estimated. Low value as individual tree. Pruned back over field to south.	None	20+	C	1	28.3	3.0
T126	Common ash	15	450					5	8	6	0.5	1.5	E	3	Mature	Growing behind hedgerow. Diameter estimated. Ivy covered stem. Small amount of dieback but most of canopy in good condition.	None	20+	B	2	91.6	5.4
T127	Common ash	15	990					6	6	6	6	1	S	2.5	Mature	Large dead tree. Decay at base. Beginning to break apart. Could be retained as standing deadwood with reduction.	Reduce height to 10m or lower and retain as standing deadwood.	<10	U		443.4	11.9
T128	Common ash	17	1020					6	7	9	7	0.5	N	1	Mature	Large tree. Entire east side of canopy dead. Low life expectancy and potential to collapse.	None	<10	U		470.7	12.2
T129	Sycamore	10	350					3	2	3	3	0.5	W	2	Mature	Growing in walled garden on raised area of ground. Low amenity value.	None	20+	C	1	55.4	4.2
T130	Sessile oak	3	90					1	1.5	1	1.5	1	E	0	Early-mature	Growing in hedgerow. Diameter estimated. Low value as individual tree. Pruned back over field to south.	None	20+	C	1	3.7	1.1
T131	Common hawthorn	4	100					1	1.5	1	1.5	1	E	2	Young	Low value tree growing taller than adjacent managed hedgerow.	None	20+	C	1	4.5	1.2
T132	Common ash	15	260	300	300	280	250	5	3	6	6	1.5	E	3	Mature	Growing behind hedgerow. Diameter estimated. Lapsed coppice. Some dieback but could potentially survive for some time.	None	20+	B	2	175.8	7.5

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor Y Grading	Categor Y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
G1	Sycamore, Goat willow	10	250					3	3	3	3	1	N	0	Early- mature	Scrubby growth along field boundary south of ditch. Low value. Unlikely to be impacted by works within field.	None	20+	C	1	28.3	3.0
G2	Sycamore, Common ash	14	400					5	5	5	5	2	E	4	Mature	All ash suffering dieback but sycamore have good vitality.	None	20+	B	2	72.4	4.8
G3	Common hawthorn	4	100					2	2	2	2	1	E	0	Semi- mature	Scrubby trees growing near to power lines. Low arboricultural value.	None	20+	C	1	4.5	1.2
G4	Common ash	14	300					4	4	4	4		S	2	Mature	Group of three multi-stemmed dying ash.	None	<10	U		40.7	3.6
G5	Sycamore	11	250					3	3	3	3	1	W	3	Semi- mature	Group of three sycamore growing south of gate. Height clearance over field is approximately 5m. Height clearance over highway verge is approximately 3m.	None	20+	B	1	28.3	3.0
G6	Sycamore, Common hawthorn	8	250					3	3	3	3	2	S	0	Semi- mature	Linear row of trees. Moderate quality.	None	20+	B	2	28.3	3.0
G7	Field elm	12	300					4	4	4	4	1	S	5	Semi- mature	Row of ivy covered elm growing along roadside. Low life expectancy due to likelihood of being affected by Dutch elm disease, however currently canopies have good vitality.	None	10+	C	1	40.7	3.6
G8	Sycamore, Common ash	16	400					5	5	5	5	1	N	1	Mature	Row of sycamore and ash growing along property boundary. Ivy covered. Good vitality. Moderate amenity value.	None	20+	B	1	72.4	4.8
G9	Field elm	14	300					4	4	4	4	1	N	1.5	Mature	Group of tall elms. Approximately 100mm dbh where growing in hedgerow to north but 300mm dbh on woodland edge to south. Trees have good vitality and do not appear to be impacted by Dutch elm disease.	None	20+	B	1	40.7	3.6
G10	Common hawthorn	7	150					2	2	2	2	1	N	1	Mature	Dense tree group south of field. Low arboricultural value.	None	20+	C	1	10.2	1.8
G11	Blackthorn	6	85					1	1	1	1	1	N	1	Mature	Dense tree group south of field. Low arboricultural value.	None	20+	C	1	3.3	1.0
G12	Blackthorn	4	85					1	1	1	1	1	W	1	Mature	Dense tree group south of field. Low arboricultural value.	None	20+	C	1	3.3	1.0
G13	Common hazel, Common hawthorn, Blackthorn, Grey willow	5	90					1	1	1	1	2	E	1	Mature	Mixed species tree group south of field. Moderate arboricultural value.	None	20+	B	2	3.7	1.1
G14	Common hazel, Common ash	17	350					4	4	4	4	1	E	2	Mature	Tall dying ash with hazel understorey.	None	10+	C	1	55.4	4.2
G15	Common hazel, Common hawthorn, Common ash, Grey	12	300					4	4	4	4	2	W	0	Mature	Mixed species tree group ranging in height from 4-12m and 75-300mm dbh. Contains some dead mature ash.	None	20+	B	2	40.7	3.6
G16	Sycamore, Common ash	15	300					4	4	4	4	2	N	1	Mature	Group of sycamore and ash growing adjacent to road. Set back from field to west and unlikely to be impacted by works within field.	None	20+	B	2	40.7	3.6
G17	Sycamore, Common hawthorn, Blackthorn, Grey willow	4	90					2	2	2	2	1	E	0	Mature	Scrub-like growth. Low arboricultural value.	None	20+	C	1	3.7	1.1
G19	Common ash	13	400					5	5	5	5		W	3	Mature	Dying back. Limited life expectancy.	None	<10	U		72.4	4.8
G20	Sycamore, Common ash. Sessile oak.	21	500					6	6	6	6	1	W	1.5	Mature	Ash and oak dying back.	None	10+	C	1	113.1	6.0
G21	Sycamore, Common ash, Lime species	12	300					4	4	4	4	2	S	2	Mature	Moderate quality trees growing adjacent to highway.	None	20+	B	2	40.7	3.6

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
G22	Blackthorn	2	75					1	1	1	1	1	S	0	Mature	Dense blackthorn scrub growing along boundary. Low arboricultural value.	None	20+	C	1	2.5	0.9
G23	Common hawthorn, Blackthorn	4	75					1	1	1	1	1	S	0	Mature	Sparse scrub like trees growing along field boundary.	None	10+	C	1	2.5	0.9
G26	Grey willow, Sessile oak, Sycamore	12	100					2	2	2	2	1	S	1	Mature	Shrub-like trees to field edge with more substantial specimens to south. Heights range from 5 - 12m.	None	20+	C	2	4.5	1.2
G27	Common ash	14	500					6	6	6	6	2	E	3	Mature	Dying ash with live epicormic growth only.	None	<10	U		113.1	6.0
G28	Common ash	16	450					5	5	5	5	1	N	0.5	Mature	Dying ash with live lower branches only. Still provides some arboricultural contribution to site but low life expectancy.	None	10+	C	1	91.6	5.4
G29	Field elm	10	300					4	4	4	4	1	N	1.5	Semi-mature	Stems larger than typical for species. Small diameter ivy covering stems. Very small amount of minor deadwood. Do not appear to be affected by Dutch elm disease.	None	20+	B	1	40.7	3.6
G30	Common ash	11	300					4	4	4	4	1	W	1.5	Semi-mature	Two stunted ash trees. Multi-stemmed at 0.5 meters and 1 meter. Possibly reduced in past. Ivy covered. Diameters estimated. Low arboricultural	None	20+	C	1	40.7	3.6
G31	Blackthorn, Grey willow, Hawthorn	5	75					1	1	1	1	1	E	0	Semi-mature	Mainly blackthorn with some grey willow and hawthorn. Dense scrub. Low arboricultural value.	None	10+	C	1	2.5	0.9
G32	Common hawthorn, Blackthorn	3	75					1	1	1	1	1	W	0	Early-mature	Low scrub. Low arboricultural value. Includes gorse.	None	20+	C	1	2.5	0.9
G33	Sycamore	12	400					5	5	5	5	2	N	1.5	Mature	Line of approximately 10 sycamore trees 400mm dbh average. Most multi-stemmed. Some young stems but most mature.	None	40+	B	2	72.4	4.8
G34	Sycamore, Grey willow	12	300					4	4	4	4	2	E	2	Early-mature	Early-mature Sycamore growing west side of fence with mature grey willow understorey. Grey willow stems are approximately 200mm dbh and growing east side of fence.	None	20+	B	2	40.7	3.6
G35	Common hawthorn	6	250					3	3	3	3	1	E	1	Mature	One dying and one dead tree growing on railway land. Creates gap in hedgerow.	None	<10	U		28.3	3.0
G36	Common hazel, Common hawthorn, Common ash, Grey	8	200					3	3	3	3	2	N	0	Mature	Mixed species tree group separated from field by nettles and weeds. Contains scattered young and semi-mature ash which are dying back.	None	20+	B	2	18.1	2.4
G37	Common ash. Hazel	17	600					7	7	7	7	1	N	1	Mature	Group containing mature ash all in decline with low life expectancy. Hazel understorey.	None	20+	C	2	162.9	7.2
G38	Sycamore, Common hawthorn, Blackthorn, Grey willow	9	300					4	4	4	4	2	S	0	Mature	Mixed species roadside tree group. Very dense. Some early-mature sycamore to north end.	None	20+	B	2	40.7	3.6
G39	Sycamore, Hornbeam, Common hazel, Cherry laurel, Rowan	12	300					4	4	4	4	1	S	0	Early-mature	Third party ornamental garden trees. Mixed species. Good vitality.	None	20+	B	1	40.7	3.6
G40	Sycamore, Common hawthorn, Grey willow	11	300					4	4	4	4	2	E	3	Mature	Trees in good condition. Line of sycamore with hawthorn and willow understorey.	None	20+	B	2	40.7	3.6
G41	Common hazel, Common hawthorn, Blackthorn, Grey	6	150					2	2	2	2	2	W	0	Mature	Many trees roadside in decline with major and minor deadwood, however group appears in good condition on east side.	None	20+	B	2	10.2	1.8
G42	Goat willow, Grey willow	5	100					2	2	2	2	1	S	0	Mature	Dense willow scrub. Low arboricultural value.	None	20+	C	1	4.5	1.2
G43	Cypress, Cherry, Purple maple	7	150					2	2	2	2	1	N	2	Semi-mature	Group of mixed species ornamental trees growing on third party land. Low arboricultural value.	None	20+	C	1	10.2	1.8
G44	Common ash	14	300					4	4	4	4		W	2.5	Mature	Two trees growing on top of and out of stone wall. Tree to east only 20% live canopy remaining. Both trees in poor condition with limited life expectancy.	None	<10	U		40.7	3.6

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
G45	Sycamore, Common ash, Wild cherry, Field elm	15	300					4	4	4	4	1	E	4	Mature	Elms and ash in similar condition. Some dieback but majority of canopy appears healthy. Sycamore hedge to south end.	None	20+	B	1	40.7	3.6
G46	Sycamore	12	450					5	5	5	5	1	E	3	Mature	Two sycamore growing on hedgebank. Tree to south has large cavity at base. Tree to north relatively small. Low arboricultural value.	None	20+	C	1	91.6	5.4
G47	Sycamore, Common hawthorn, Common ash, Blackthorn, Grey willow	16	600					7	7	7	7	2	N	2	Mature	Trees to north relatively small with larger trees to south. Trees surround watercourse.	None	20+	B	2	162.9	7.2
G48	Blackthorn, Goat willow, Grey willow	4	90					1	1	1	1	2	S	0	Mature	Mainly blackthorn and willow scrub growing around pond. In dip so appears very low from west field. Low arboricultural value.	None	20+	C	2	3.7	1.1
G49	Sycamore, Common hawthorn	6	110					2	2	2	2	2	S	0	Young	Group of young trees. Some in decline. Low value.	None	10+	C	2	5.5	1.3
G50	Common ash	15	400					5	5	5	5	2	N		Mature	Moderate quality line of mature ash growing in hedgerow. Good vitality.	None	20+	B	2	72.4	4.8
G51	Common ash	15	400					5	5	5	5	1.5	E		Mature	Growing in hedgerow. In decline with leaning stems. Some stems snapped out. Ivy covered. Low quality.	None	<10	U		72.4	4.8
G52	Common ash	15	400					5	5	5	5	2	E		Mature	Growing in hedgerow. In decline with leaning stems. Some stems snapped out. Ivy covered. Low quality.	None	<10	U		72.4	4.8
G53	Common ash	15	400					5	5	5	5	1.5	N		Mature	Two dying ash partially collapsed.	None	<10	U		72.4	4.8
G54	Sycamore	10	260					4	4	4	4	2	N	1.5	Semi-mature	Group of sycamore with leaning stems. High amenity value.	None	40+	A	2	30.6	3.1
G55	Sycamore, Common ash	16	600					7	7	7	7	2	S	1	Mature	Line of mature sycamore and ash growing at top of bank. All ash in decline. Some split stems. Sycamore in good condition.	None	20+	B	2	162.9	7.2
G56	Sycamore, Common ash, Grey willow	12	300					4	4	4	4	1	E	1	Semi-mature	All ash in decline. Semi-mature trees growing south of watercourse.	None	20+	C	1	40.7	3.6
G57	Sycamore, Common ash, Grey willow	12	400					5	5	5	5		S	1	Mature	Dense mixed species tree group containing some dying and collapsed trees but most in good condition.	None	20+	B	2	72.4	4.8
G58	Common ash	14	400					5	5	5	5		S	2.5	Mature	Two trees growing on hedgebank. Tree to west only 30% live canopy remaining. Both trees in poor condition with limited life expectancy.	None	<10	U		72.4	4.8
G59	Sycamore	14	350					4	4	4	4	2	W	3	Semi-mature	Semi-mature trees growing in highway verge. Moderate amenity value.	None	20+	B	2	55.4	4.2
G60	Common hazel, Blackthorn	3	75					1	1	1	1	1	S	0	Mature	Blackthorn, gorse and hazel scrub growing in highway verge.	None	20+	C	1	2.5	0.9
G61	Sycamore, Common beech, Common ash	14	300					4	4	4	4	2	N	4	Mature	Roadside trees. Many ivy covered. Ash in decline. Several leaning stems. Some snapped stems.	None	20+	B	2	40.7	3.6
G62	Sycamore, Common hazel, Common hawthorn, Common ash, Blackthorn, Grey willow	14	350					4	4	4	4	2	N	4	Mature	Ivy covered sycamore and ash with other species forming small area of scrub to north.	None	20+	B	2	55.4	4.2
G63	Common hawthorn	7	200					3	3	3	3	1	E	1	Mature	Dense tree group south of field. Low arboricultural value.	None	20+	C	1	18.1	2.4
G64	Common ash	15	400					5	5	5	5	1	S	2	Mature	Group of ash in decline. Low value due to limited life expectancy.	None	10+	C	1	72.4	4.8
G65	Common ash	15	500					6	6	6	6	2	N	3	Mature	Group of mature ash in decline but still have approximately 60% of live canopy remaining. Tree to south end of group is dead. Also contains one young sycamore and grey willow to south.	None	20+	B	2	113.1	6.0

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
G66	Grey willow, Elder	5	75					1	1	1	1	1	E	0	Mature	Scrub like trees with limited arboricultural value.	None	20+	C	1	2.5	0.9
G67	Common ash	15	450					5	5	5	5	2	W	2	Mature	Ash trees in decline growing to side of track and south of field. Low life expectancy.	None	10+	C	2	91.6	5.4
G68	Common ash	15	450					5	5	5	5	2	S	2	Mature	Ash trees in decline growing to side of track. Low life expectancy.	None	10+	C	2	91.6	5.4
G69	Common ash	12	300					4	4	4	4	2	S	2	Mature	Group of ash growing in hedgerow. Canopies currently have good vitality. Tree to west has canopy weighted to south. Moderate quality.	None	20+	B	2	40.7	3.6
G70	Common hawthorn	4	150					2	2	2	2	1	E	0	Mature	Low value hawthorn growing between mature ash.	None	20+	C	1	10.2	1.8
G71	Common ash	12	300					4	4	4	4		N	1	Mature	Line of dying trees. Very low life expectancy.	None	<10	U		40.7	3.6
G72	Sycamore	12	400					5	5	5	5	2	N	2	Mature	Group of sycamore with few ash. Ash in decline but sycamore in good condition with good vitality.	None	20+	B	2	72.4	4.8
G73	Blackthorn, Grey willow, Elder	5	75					1	1	1	1	2	E	0	Mature	Growing in dip. Scrub like growth. Low value.	None	20+	C	2	2.5	0.9
G74	Field elm	14	300					4	4	4	4	2	W	2.5	Semi-mature	Row of semi-mature elm, as yet unaffected by Dutch elm disease and canopies in good condition.	None	20+	B	2	40.7	3.6
G75	Field elm	14	300					4	4	4	4	2	W	2.5	Semi-mature	Row of semi-mature elm, as yet unaffected by Dutch elm disease and canopies in good condition.	None	20+	B	2	40.7	3.6
G76	Sycamore, Common ash	10	450					5	5	5	5	1	E	3	Mature	Ash and sycamore growing in hedgerow. Ash in decline. Low amenity value. Windswept with canopy bias to east.	None	10+	C	1	91.6	5.4
G77	Sycamore, Common ash	10	450					5	5	5	5	1	S	3	Mature	Ash and sycamore growing in hedgerow. Ash in decline. Low amenity value. Windswept with canopy bias to east.	None	10+	C	1	91.6	5.4
G78	Common ash	10	450					5	5	5	5	1	E	3	Mature	Ash growing in hedgerow. In decline. Low amenity value. Windswept with canopy bias to east.	None	10+	C	1	91.6	5.4
G79	Common hawthorn, Blackthorn	7	200					3	3	3	3	1	N	0	Mature	Low quality thorn bushes growing sporadically around field boundary. Unmanaged.	None	10+	C	1	18.1	2.4
G80	Common hawthorn, Blackthorn	7	200					3	3	3	3	1	S	0	Mature	Low quality thorn bushes growing sporadically around field boundary. Unmanaged.	None	10+	C	1	18.1	2.4
G81	Common hawthorn, Blackthorn	7	200					3	3	3	3	1	S	0	Mature	Low quality thorn bushes growing sporadically around field boundary. Unmanaged.	None	10+	C	1	18.1	2.4
G82	Common hawthorn, Blackthorn	7	200					3	3	3	3	1	N	0	Mature	Low quality thorn bushes growing sporadically around field boundary. Unmanaged.	None	10+	C	1	18.1	2.4
G83	Field elm	12	250					3	3	3	3	2	S	1	Semi-mature	Providing effective screen between house and road. Canopies have good vitality.	None	20+	B	2	28.3	3.0
G84	Sycamore, Horse chestnut	10	300					4	4	4	4	2	W	3	Semi-mature	Ornamental trees growing on third party land. Low value.	None	20+	C	2	40.7	3.6
G85	Common hawthorn	6	200					3	3	3	3	2	E	1	Early-mature	Some leaning stems. Low arboricultural value.	None	20+	C	2	18.1	2.4
G86	Sycamore, Common ash, Grey willow	16	500					6	6	6	6	2	N	2	Mature	Mixed species woodland with scattered dead trees, particularly to east end.	None	20+	B	2	113.1	6.0
G87	Common ash	10	300					4	4	4	4	2	E	2	Mature	Ash in decline, overhanging track with approximately 2m height clearance above ground level. Low quality.	None	20+	C	2	40.7	3.6

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
G88	Common hawthorn, Blackthorn	4	75					1	1	1	1	2	W	0	Mature	Thorn bushes taller than main hedgerow becoming area of scrub to east. Low arboricultural value.	None	20+	C	2	2.5	0.9
H1	Common hawthorn	2	75					0.5	0.5	0.5	0.5	0	S	0	Mature	Managed hedgerow adjacent to track.	None	20+	B	2	2.5	0.9
H2	Sycamore, Common hawthorn, Blackthorn	2	75					0.5	0.5	0.5	0.5	0	S	0	Mature	Managed boundary hedgerow. Also contains gorse.	None	20+	B	2	2.5	0.9
H3	Sycamore, Blackthorn	3	75					0.5	0.5	0.5	0.5	0	S	0	Mature	Boundary hedgerow of varying height (2-3m). Also contains gorse.	None	20+	B	2	2.5	0.9
H4	Blackthorn, Grey willow	4	90					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow. Also contains gorse.	None	20+	B	2	3.7	1.1
H5	Sycamore, Blackthorn, Grey willow	3	75					0.5	0.5	0.5	0.5	0	S	0	Mature	Boundary hedgerow of varying height (2-3m). Also contains gorse.	None	20+	B	2	2.5	0.9
H6	Common hawthorn, Blackthorn	4	75					1	1	1	1	0	S	0	Mature	Dense boundary hedgerow. Also contains gorse.	None	20+	B	2	2.5	0.9
H7	Common hawthorn, Blackthorn, Bramble	4	85					1	1	1	1	0	S	0	Mature	Dense boundary hedgerow. Also contains gorse.	None	20+	B	2	3.3	1.0
H8	Common hawthorn, Blackthorn, Bramble, Elder	4	85					2	2	2	2	0	S	0	Mature	Boundary hedgerow. Gappy towards north end.	None	20+	B	2	3.3	1.0
H9	Blackthorn	6	100					2	2	2	2	0	S	2	Young	Taller hedgerow trees near to power lines.	None	20+	B	2	4.5	1.2
H10	Common hawthorn	4	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow. Effective screen.	None	20+	B	2	2.5	0.9
H11	Common hazel, Common hawthorn, Blackthorn	4	75					1.5	1.5	1.5	1.5	0	S	0	Mature	Managed hedgerow. Includes gorse.	None	20+	B	2	2.5	0.9
H12	Common hawthorn, Blackthorn	4	75					1	1	1	1	0	S	0	Mature	Gappy hedgerow. Thinning to east end near railway bridge.	None	10+	C	2	2.5	0.9
H13	Blackthorn	4	75					2	2	2	2	0	S	0	Mature	Dense hedgerow 4m height to north reducing to 2m height to south. Contains Japanese knotweed.	None	20+	B	2	2.5	0.9
H14	Common hawthorn	3	75					0.75	0.75	0.75	0.75	0	S	0	Mature	Well managed towards vehicle entrance to south. More sprawling to north. Also contains ivy.	None	20+	B	2	2.5	0.9
H15	Common hawthorn, Blackthorn	4	90					2	2	2	2	0	S	0	Mature	Also contains gorse. Unmanaged. Effective screen.	None	20+	B	2	3.7	1.1
H16	Common hawthorn, Blackthorn	4	90					2	2	2	2	0	S	0	Mature	Also contains gorse. Unmanaged. Effective screen.	None	20+	B	2	3.7	1.1
H17	Common hawthorn	4	75					2	2	2	2	0	S	0	Mature	Dense field boundary hedgerow.	None	20+	B	2	2.5	0.9
H18	Common hawthorn, Bramble	6	150					2	2	2	2	0	S	0.5	Mature	Tall hawthorn hedgerow with bracken and bramble understory. Some leaning and dead stems. Unmanaged.	None	20+	B	2	10.2	1.8
H20	Common hawthorn	2	75					1.5	1.5	1.5	1.5	0	S	0	Mature	Managed field boundary hedgerow. Effective screen between field and road.	None	20+	B	2	2.5	0.9
H21	Common hazel, Common hawthorn, Blackthorn	4	75					2	2	2	2	0	S	0	Mature	Dense field boundary hedgerow. Unmanaged.	None	20+	B	2	2.5	0.9
H22	Common hazel, Common hawthorn, Grey willow	6	75					2	2	2	2	0	S	0	Mature	Dense hedgerow. Hazel has some dieback but generally good condition. Moderate arboricultural value.	None	20+	B	2	2.5	0.9

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Category Grading	Category Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
H23	Blackthorn, Bramble, Elder	4	75					2	2	2	2	0	S	0	Mature	Dense field boundary hedgerow. Includes gorse.	None	40+	B	2	2.5	0.9
H24	Common hazel, Common hawthorn, Blackthorn	4	75					2	2	2	2	0	S	0	Mature	Mainly blackthorn. Sparse to east end near railway bridge. Almost all stems growing railway side of fence. Some young sycamore to west end.	None	20+	B	2	2.5	0.9
H25	Common hawthorn	4	75					1.5	1.5	1.5	1.5	0	S	0	Mature	Dense hedgerow with most stems east side of fence. Occasional gorse. Unmanaged.	None	20+	B	2	2.5	0.9
H26	Blackthorn	4	75					2	2	2	2	0	S	0	Mature	Dense field boundary hedgerow. Bramble dominates roadside.	None	20+	B	2	2.5	0.9
H27	Common hawthorn	4	100					2	2	2	2	0	S	0	Mature	Dense field boundary hedgerow. Small gap near south end adjacent to Fairlawns driveway.	None	20+	B	2	4.5	1.2
H28	Sycamore, Common hawthorn, Blackthorn	3	75					0.5	0.5	0.5	0.5	0	S	0	Young	Young small diameter hedgerow growing railway side of fence. Low value.	None	20+	B	2	2.5	0.9
H29	Leyland cypress	3	200					0.25	0.25	0.25	0.25	0	S	3	Semi-mature	Row of dead cypress stems once forming hedgerow.	None	<10	U		18.1	2.4
H30	Sycamore, Common ash, Blackthorn, Grey willow	2	75					1	1	1	1	0	S	0	Mature	Dense mixed species hedgerow in good condition.	None	20+	B	2	2.5	0.9
H31	Sycamore, Common hawthorn, Common ash, Wild cherry, Blackthorn	2	100					1	1	1	1	0	S	0	Mature	Dense mixed species hedgerow in good condition.	None	20+	B	2	4.5	1.2
H32	Common hawthorn, Common ash, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Field boundary hedgerow. Mixed species. In good condition.	None	20+	B	2	2.5	0.9
H33	Sycamore, Common hawthorn, Common ash, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Field boundary hedgerow. Mixed species. In good condition.	None	20+	B	2	2.5	0.9
H34	Sycamore, Common hawthorn, Common ash, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Field boundary hedgerow. Mixed species. In good condition.	None	20+	B	2	2.5	0.9
H35	Blackthorn, Bramble	2.5	75					1	1	1	1	0	S	0	Mature	Short section of hedgerow merging into trees and woodland to north.	None	10+	C	2	2.5	0.9
H36	Blackthorn, Bramble	2.5	75					1	1	1	1	0	S	0	Mature	Managed hedgerow alongside track forming field boundaries.	None	20+	B	2	2.5	0.9
H37	Common hawthorn, Blackthorn	3	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow growing along track.	None	20+	B	2	2.5	0.9
H38	Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow.	None	20+	B	2	2.5	0.9
H40	Common ash, Blackthorn, Field elm	10	300					2	2	2	2	0	S	0	Mature	Blackthorne hedge 2 m height with dying ash 10 meters height. Elm To East in better condition.	None	10+	C	2	40.7	3.6
H41	Common hawthorn, Blackthorn	3	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow growing along track.	None	20+	B	2	2.5	0.9
H42	Common hawthorn	2	75					1	1	1	1	0	S	0	Mature	Ditch to south.	None	10+	C	2	2.5	0.9
H43	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Effective screen.	None	20+	B	2	2.5	0.9
H44	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Effective screen.	None	20+	B	2	2.5	0.9
H45	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed hedgerow growing on bank.	None	20+	B	2	2.5	0.9

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m ²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
H46	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed hedgerow growing on bank.	None	20+	B	2	2.5	0.9
H47	Common ash, Blackthorn	9	300					2	2	2	2	0	S	0	Mature	Blackthorn hedgerow approximately 2m height and 75mm dbh with individual semi-mature ash approximately 9m height and 300mm dbh. Ash in decline.	None	20+	B	2	40.7	3.6
H48	Common hawthorn, Blackthorn, Elder	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow in good condition.	None	20+	B	2	2.5	0.9
H49	Common hawthorn	4	75					2	2	2	2	0	S	0	Mature	Unmanaged scrub-like growth. Low value.	None	10+	C	2	2.5	0.9
H50	Sycamore, Honeysuckle, Blackthorn	4	75					1.5	1.5	1.5	1.5	0	S	0	Mature	Field boundary hedgerow in good condition.	None	20+	B	2	2.5	0.9
H51	Common hawthorn, Blackthorn, Field elm	3	75					1	1	1	1	0	S	0	Mature	Field boundary hedgerow in good condition.	None	20+	B	2	2.5	0.9
H53	Common hawthorn, Blackthorn, Elder	3	75					1	1	1	1	0	S	0	Mature	Field boundary hedgerow in good condition.	None	20+	B	2	2.5	0.9
H54	Sycamore, Common hazel, Common hawthorn, Wild cherry, Blackthorn, Bramble	4	75					2	2	2	2	0	S	0	Mature	Dense mixed species hedgerow forming effective screen between field and road.	None	20+	B	2	2.5	0.9
H55	Common hawthorn, Common ash, Blackthorn	4	90					1.5	1.5	1.5	1.5	0	S	0	Mature	Dense field boundary hedgerow. Moderate quality.	None	20+	B	2	3.7	1.1
H56	Common hawthorn, Common ash, Blackthorn	3	90					1.5	1.5	1.5	1.5	0	S	0	Mature	Dense field boundary hedgerow. Moderate quality.	None	20+	B	2	3.7	1.1
H57	Common hawthorn	1.5	90					0.5	0.5	0.5	0.5	0	S	0	Mature	Low managed hedgerow. Very gappy with limited contribution. Only substantial section is to west end.	None	10+	C	2	3.7	1.1
H58	Blackthorn	3	75					1	1	1	1	0	S	0	Mature	Short section of hedgerow growing east of willow group. Low value.	None	10+	C	2	2.5	0.9
H59	Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Thin hedgerow compared to most others recorded. Slightly gappy. Low value.	None	10+	C	2	2.5	0.9
H60	Blackthorn	3	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow. Moderate quality.	None	20+	B	2	2.5	0.9
H61	Blackthorn	3	75					1	1	1	1	0	S	0	Mature	Dense field boundary hedgerow. Moderate quality.	None	20+	B	2	2.5	0.9
H62	Common hawthorn, Blackthorn, Elder	2	75					1	1	1	1	0	S	0	Mature	Hedge bank forming field boundary. Effective screen.	None	20+	B	2	2.5	0.9
H63	Common hawthorn, Blackthorn, Elder	2	75					1	1	1	1	0	S	0	Mature	Dense hedgerow forming field boundary. Effective screen.	None	20+	B	2	2.5	0.9
H64	Common hawthorn, Blackthorn, Elder	2	75					2	2	2	2	0	S	0	Mature	Wide dense hedgerow. Dead tree to west end not included in survey.	None	20+	B	2	2.5	0.9
H65	Common hawthorn, Blackthorn	2	90					1	1	1	1	0	S	0	Mature	Sparse hedgerow with multiple gaps. Low quality.	None	10+	C	2	3.7	1.1
H66	Common hawthorn	1.5	90					0.5	0.5	0.5	0.5	0	S	0	Mature	Low managed hedgerow. Gappy and sporadic growth. Low value.	None	10+	C	2	3.7	1.1
H67	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m ²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
H68	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H69	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H70	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H71	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H72	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H73	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H74	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed field boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H75	Common hazel, Common hawthorn, Common ash,	6	85					1	1	1	1	0	S	0	Mature	Tall hedgerow lining track.	None	20+	B	2	3.3	1.0
H76	Common hazel, Common hawthorn, Common ash,	4	150					1	1	1	1	0	S	0	Mature	Tall hedgerow lining track.	None	20+	B	2	10.2	1.8
H77	Common hazel, Common hawthorn, Common ash,	4	150					1	1	1	1	0	S	0	Mature	Tall hedgerow lining track.	None	20+	B	2	10.2	1.8
H78	Common hawthorn, Blackthorn, Elder	2	75					1	1	1	1	0	S	0	Mature	Dense hedgerow forming field boundary. Effective screen.	None	20+	B	2	2.5	0.9
H79	Common hawthorn, Blackthorn, Elder	2	75					1	1	1	1	0	S	0	Mature	Dense hedgerow forming field boundary. Effective screen.	None	20+	B	2	2.5	0.9
H80	Common hawthorn, Blackthorn	4	75					1	1	1	1	0	S	0	Mature	Unmanaged section of hedgerow, very sparse stems in front of house. Low amenity value. Scrubby appearance.	None	10+	C	2	2.5	0.9
H81	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Managed boundary hedgerow. Dense growth. Good condition.	None	20+	B	2	2.5	0.9
H82	Common hawthorn, Blackthorn	2	75					1	1	1	1	0	S	0	Mature	Neat managed hedgerow, fairly thin to front of houses.	None	20+	B	2	2.5	0.9
H83	Blackthorn, Field elm	2	75					0.5	0.5	0.5	0.5	0	S	0	Mature	Hedgerow in grass verge. Good condition but low arboricultural value.	None	10+	C	2	2.5	0.9
H84	Sycamore, Common hawthorn, Blackthorn, Grey willow, Elder	3	150					1.5	1.5	1.5	1.5	0	S	0	Mature	Includes some large diameter elder approximately 150mm dbh. Dense hedgerow of moderate quality. Main hedgerow approximately 3m height with individual hawthorn approximately 5m height.	None	20+	B	2	10.2	1.8
H85	Sycamore, Common hawthorn, Blackthorn, Elder	3	100					1.5	1.5	1.5	1.5	0	S	0	Mature	Growing railway side of fence on embankment. Sparse in sections. Low arboricultural value.	None	10+	C	2	4.5	1.2
H86	Sycamore, Common hawthorn, Common ash, Blackthorn	3	100					1.5	1.5	1.5	1.5	0	S	0	Mature	Field boundary hedgerow. Mixed species. In good condition.	None	20+	B	2	4.5	1.2
H87	Sycamore, Hawthorn	2	90					1.5	1.5	1.5	1.5	0	S	0	Mature	Short section of sycamore hedgerow with some hawthorn to east end growing on hedgebank forming perimeter of house.	None	20+	C	2	3.7	1.1
W1	Sycamore, Common ash, Willow species	15	600					7	7	7	7	0	S	0	Mature	High quality woodland with some paths between trees allowing field access.	None	40+	A	1	162.9	7.2
W2	Sycamore, Common ash, Blackthorn, Grey willow	14	400					5	5	5	5	0	S	0	Mature	Mostly low willow scrub with some dying ash. Low arboricultural value but has some ecological value.	None	20+	C	3	72.4	4.8

#	Species	Height (m)	Stem Diameter					Branch Spread				Existing Height AGL			Life Stage	General Observations (structural / physiological condition)	Preliminary Management Recommendations	Estimated Remaining Contribution (years)	Categor y Grading	Categor y Grading	Root Protection Area	
			(mm)					(m)				(m)									(m²)	(radius in m)
			S1	S2	S3	S4	S5	N	E	S	W	(1a)	(1b)	(2)								
W3	Sycamore, Common hazel, Common ash	16	400					5	5	5	5	0	S	1	Mature	Woodland includes dying ash. More low level scrub like growth south of field.	None	20+	B	2	72.4	4.8

Appendix C

Tree Constraints Plan



LEGEND

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Client:
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Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE CONSTRAINTS PLAN

Drawing No: GWS-2331-TCP

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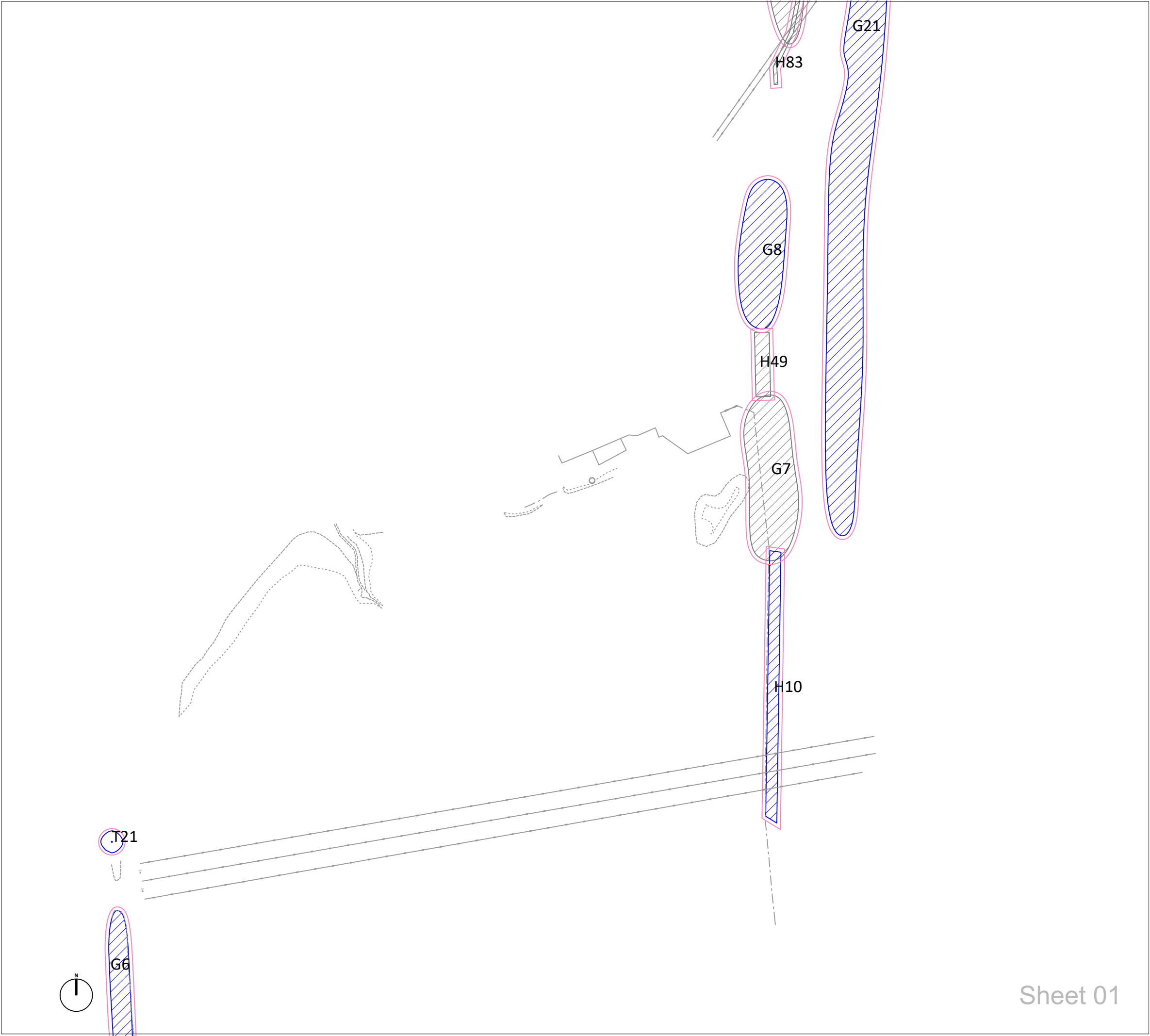
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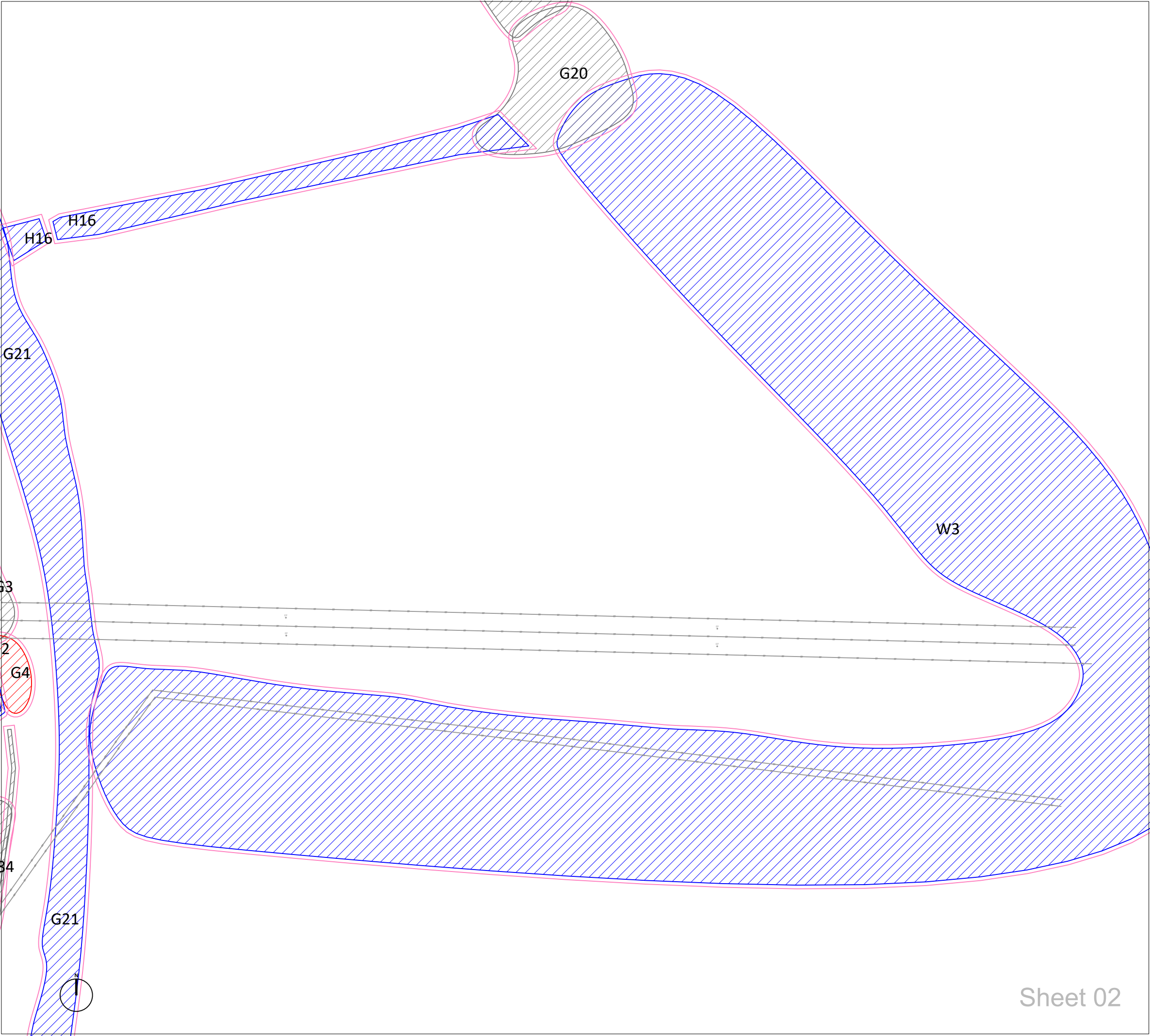
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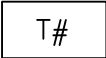
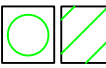
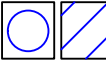
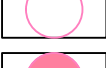
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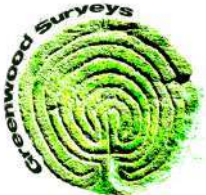
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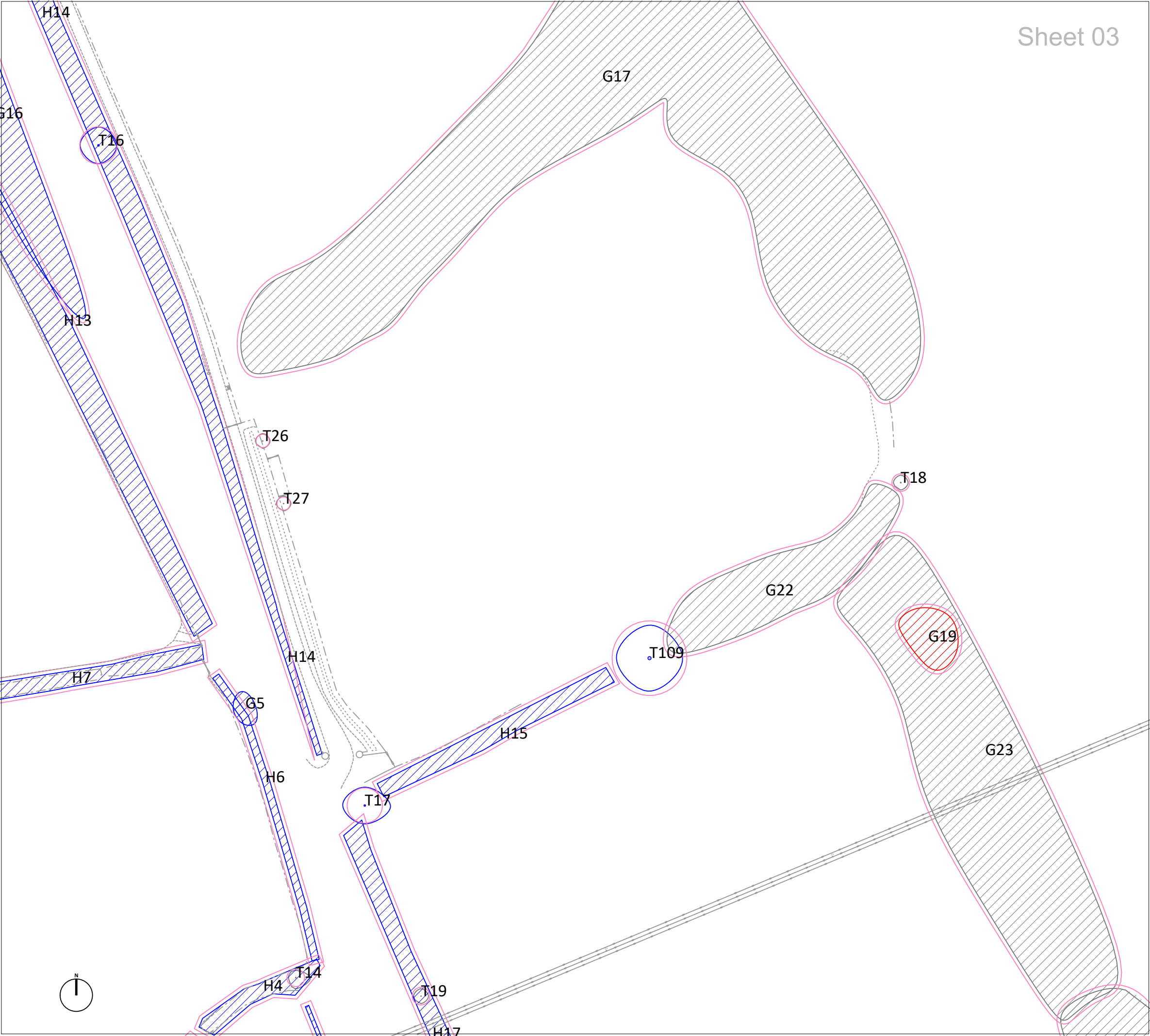
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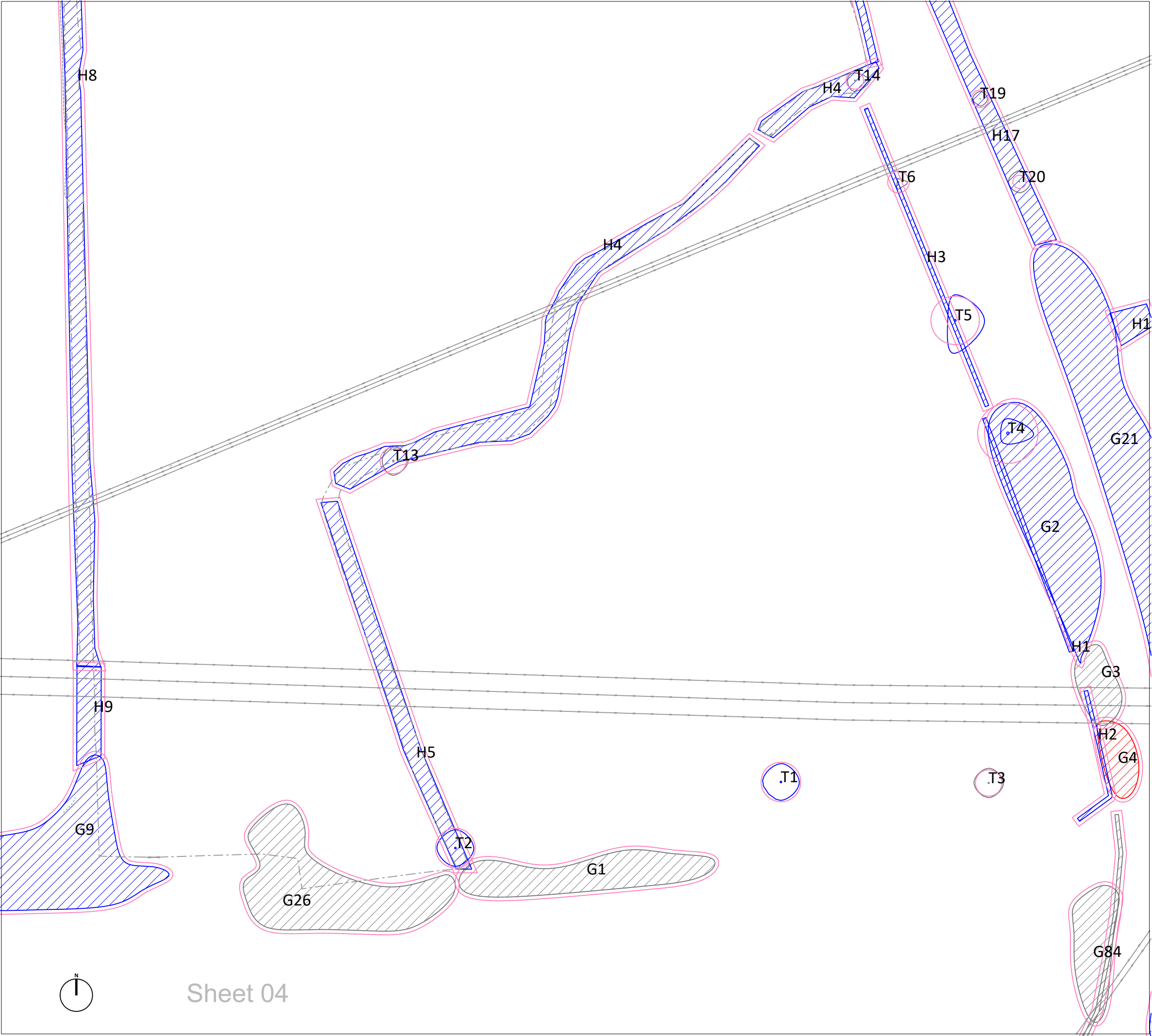
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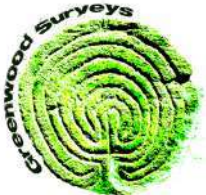
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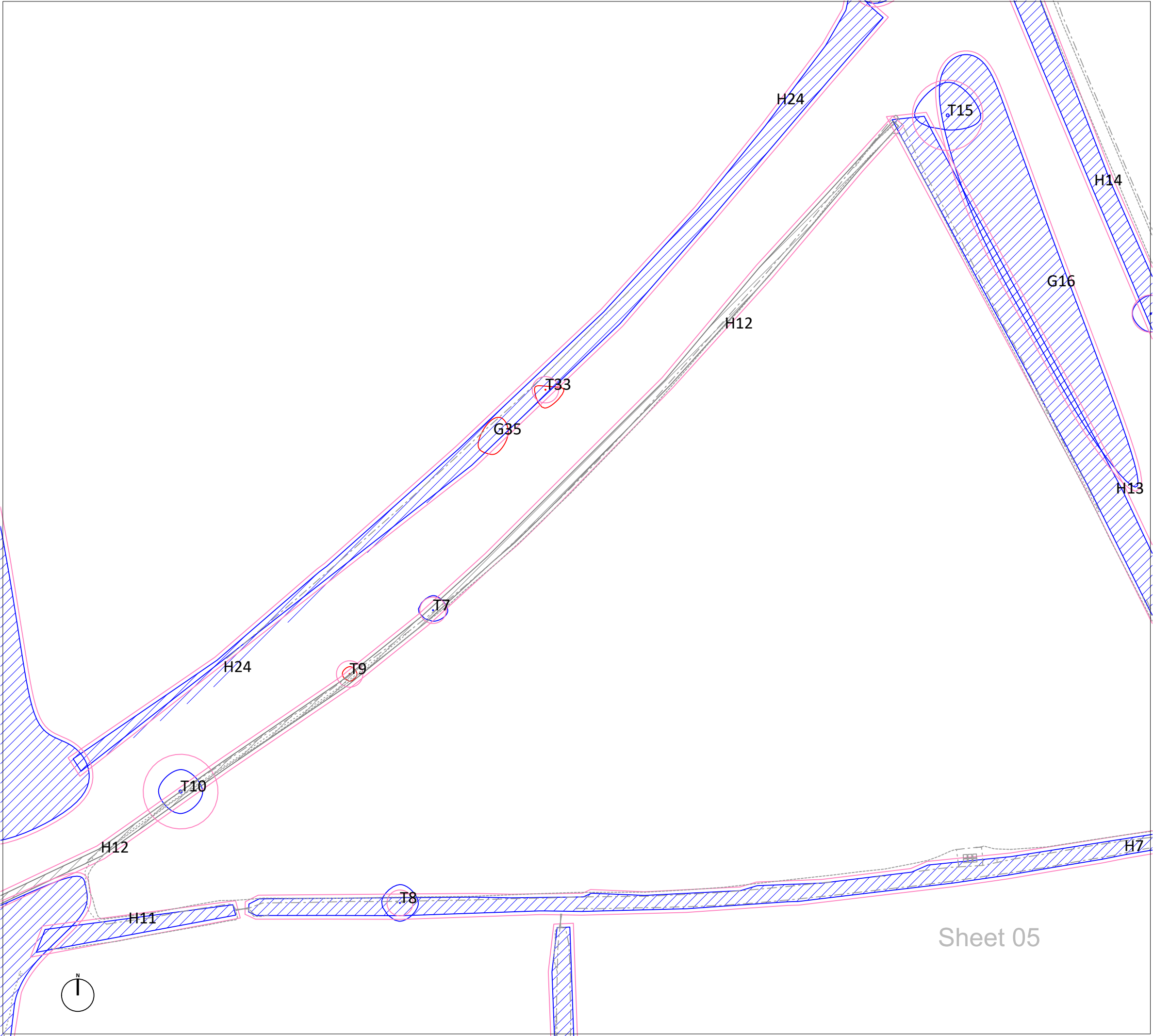
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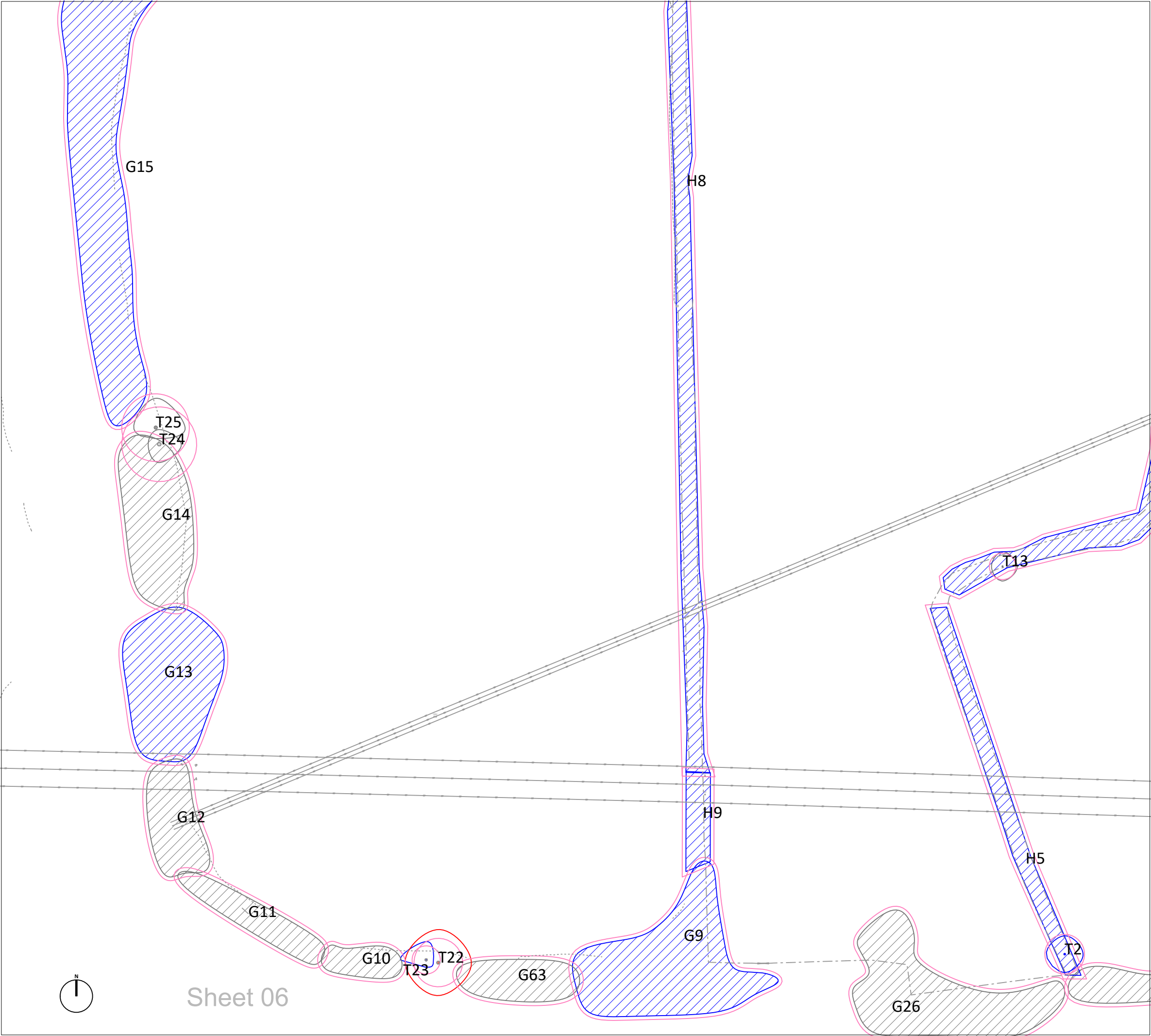
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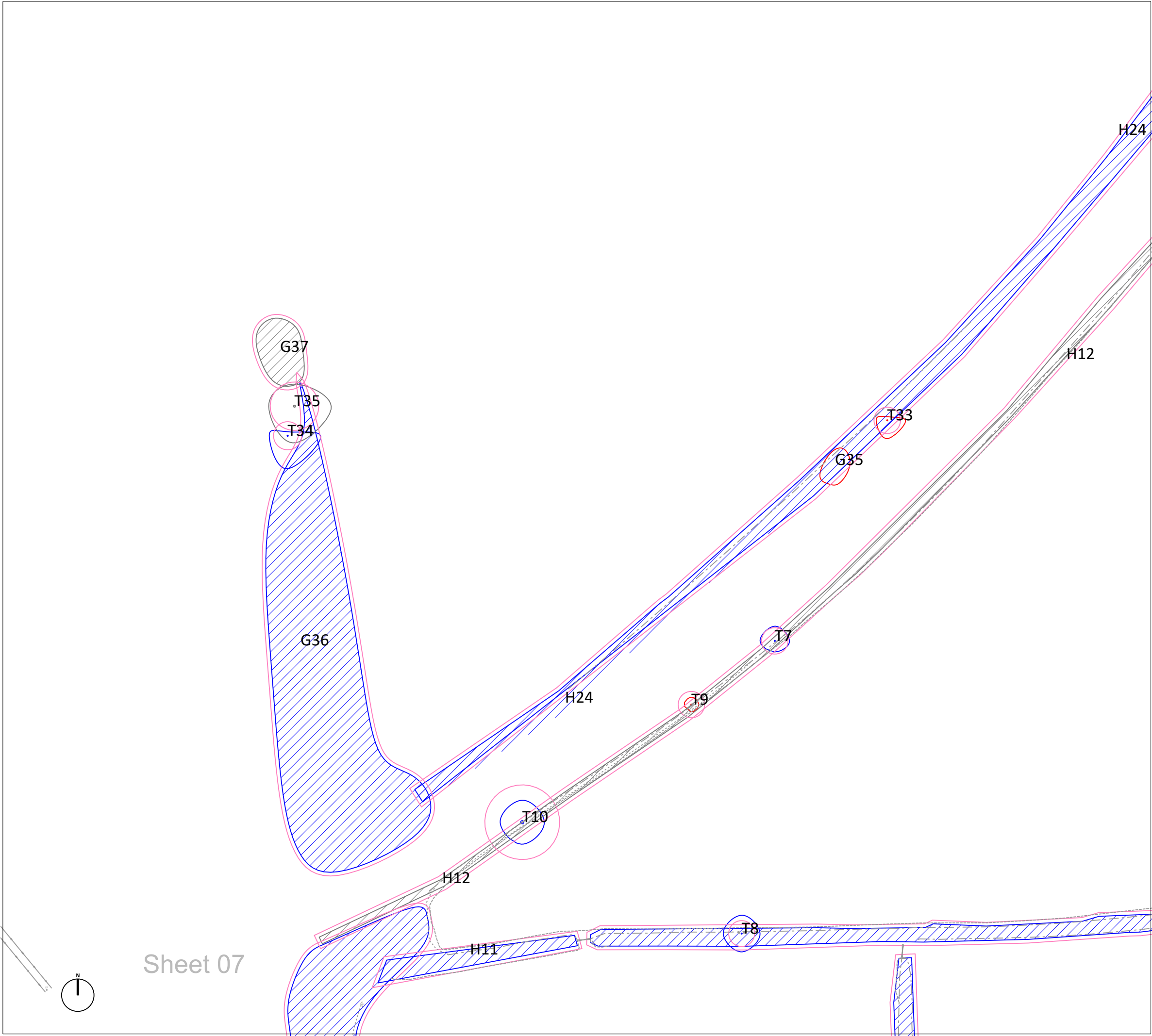
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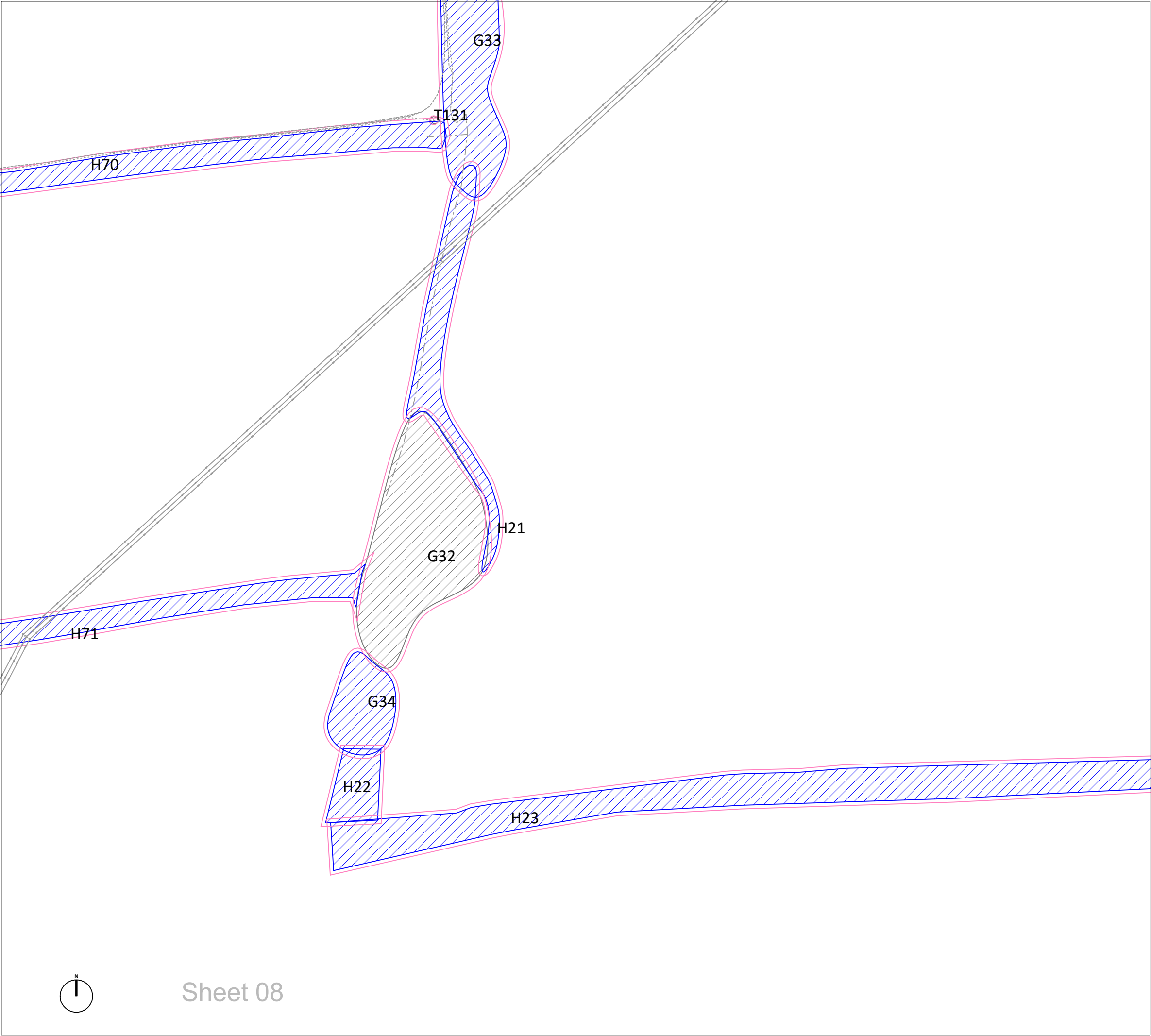
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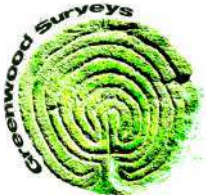
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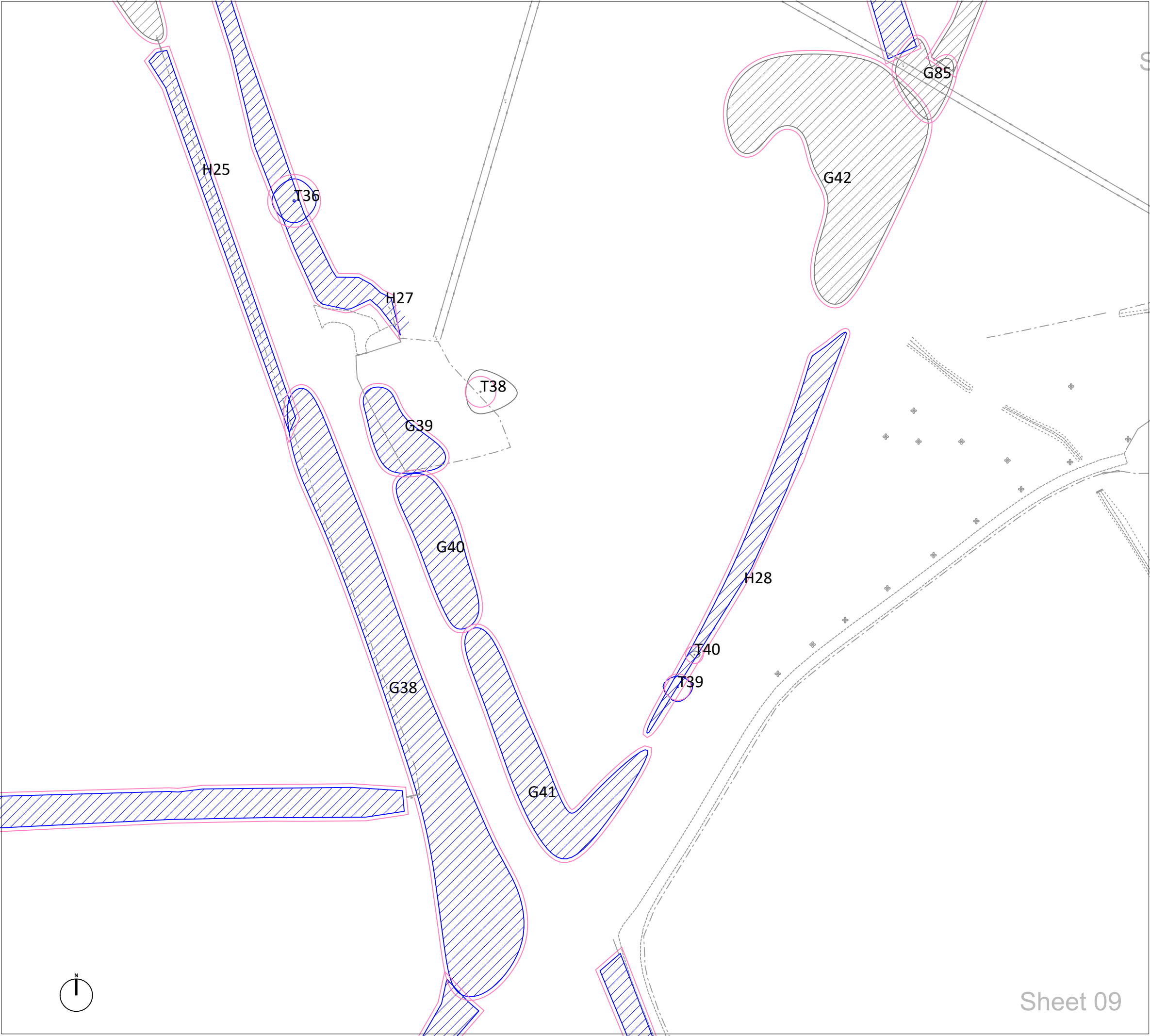
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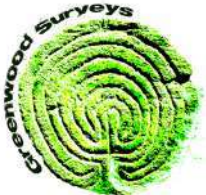
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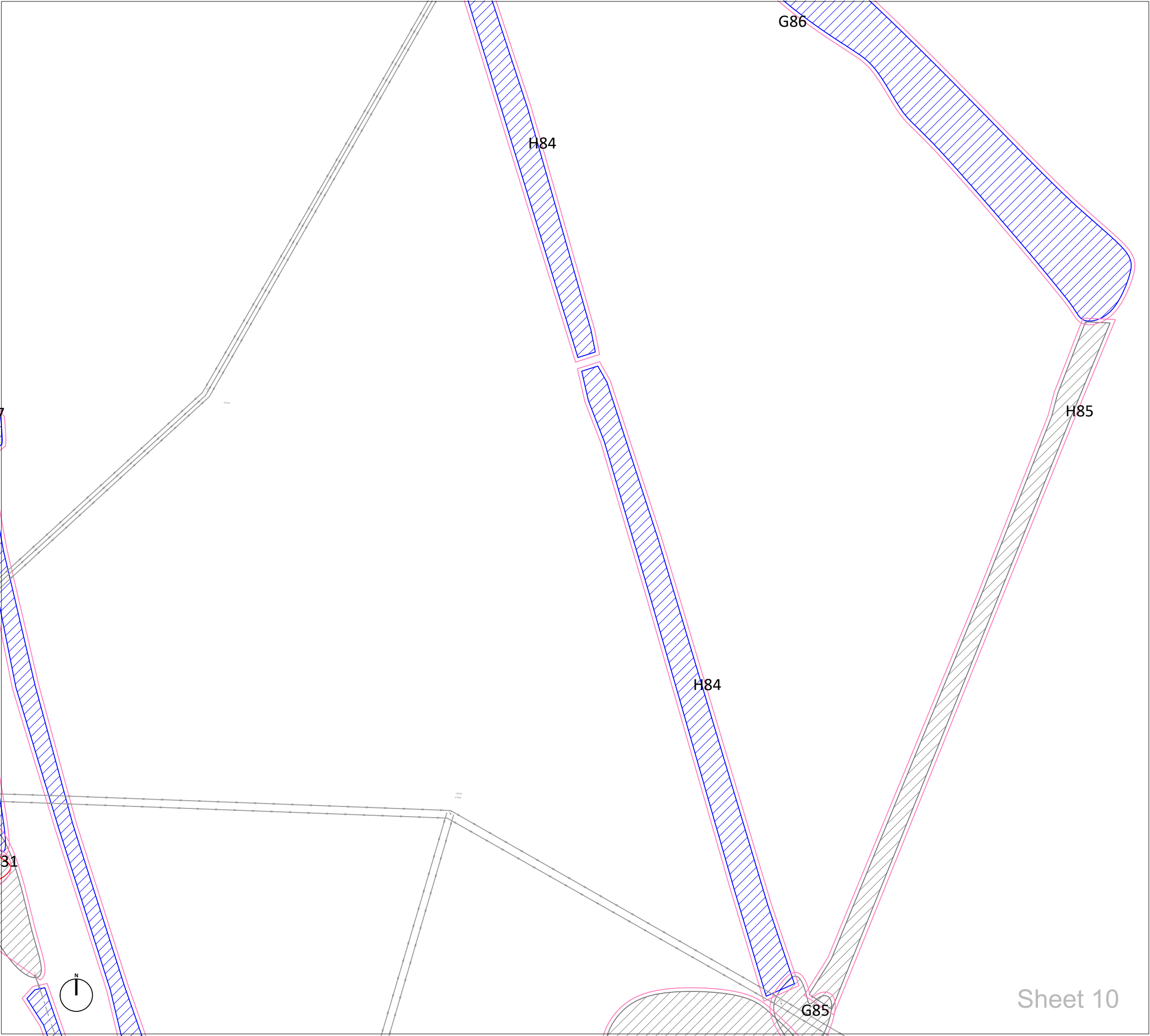
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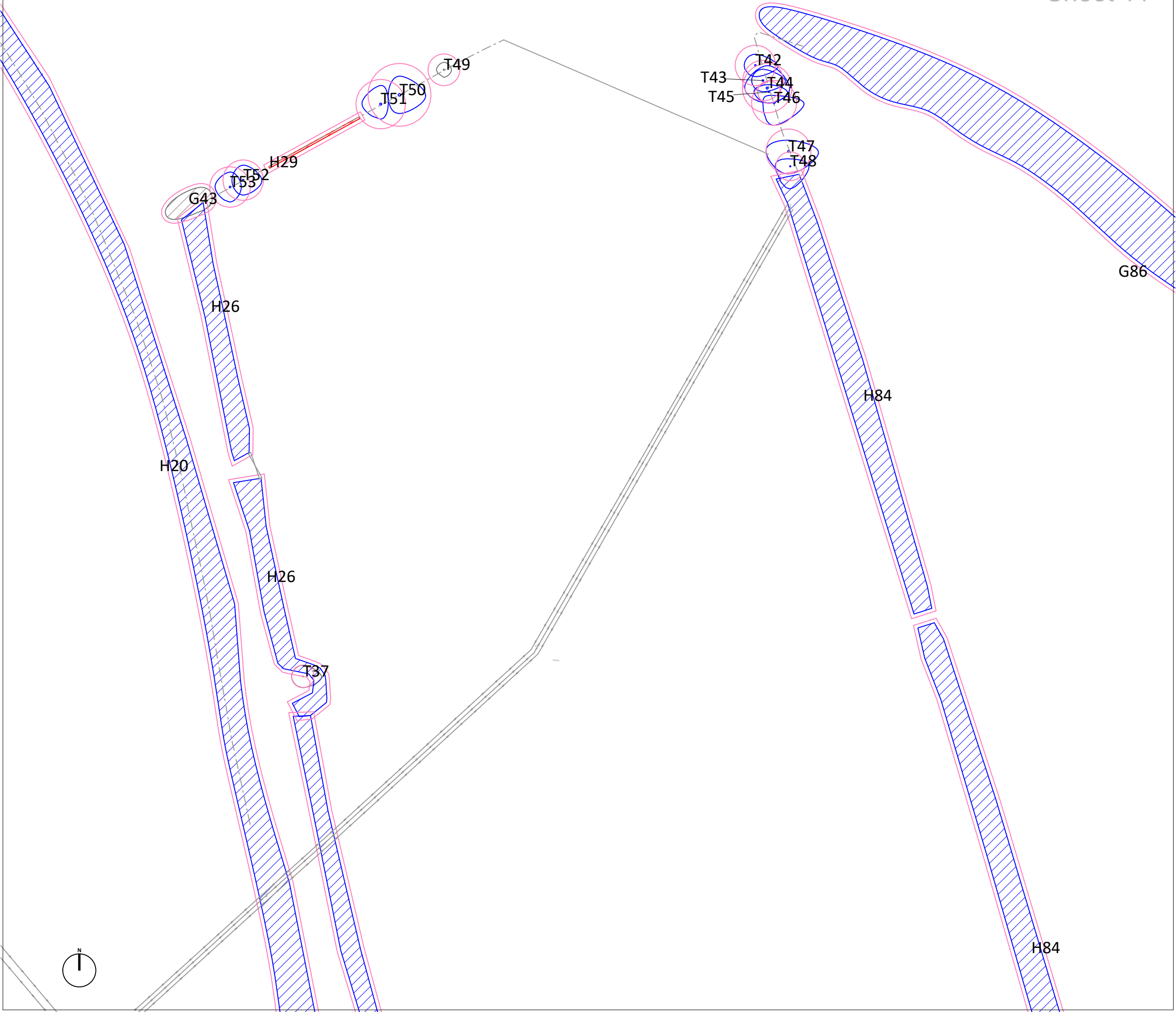
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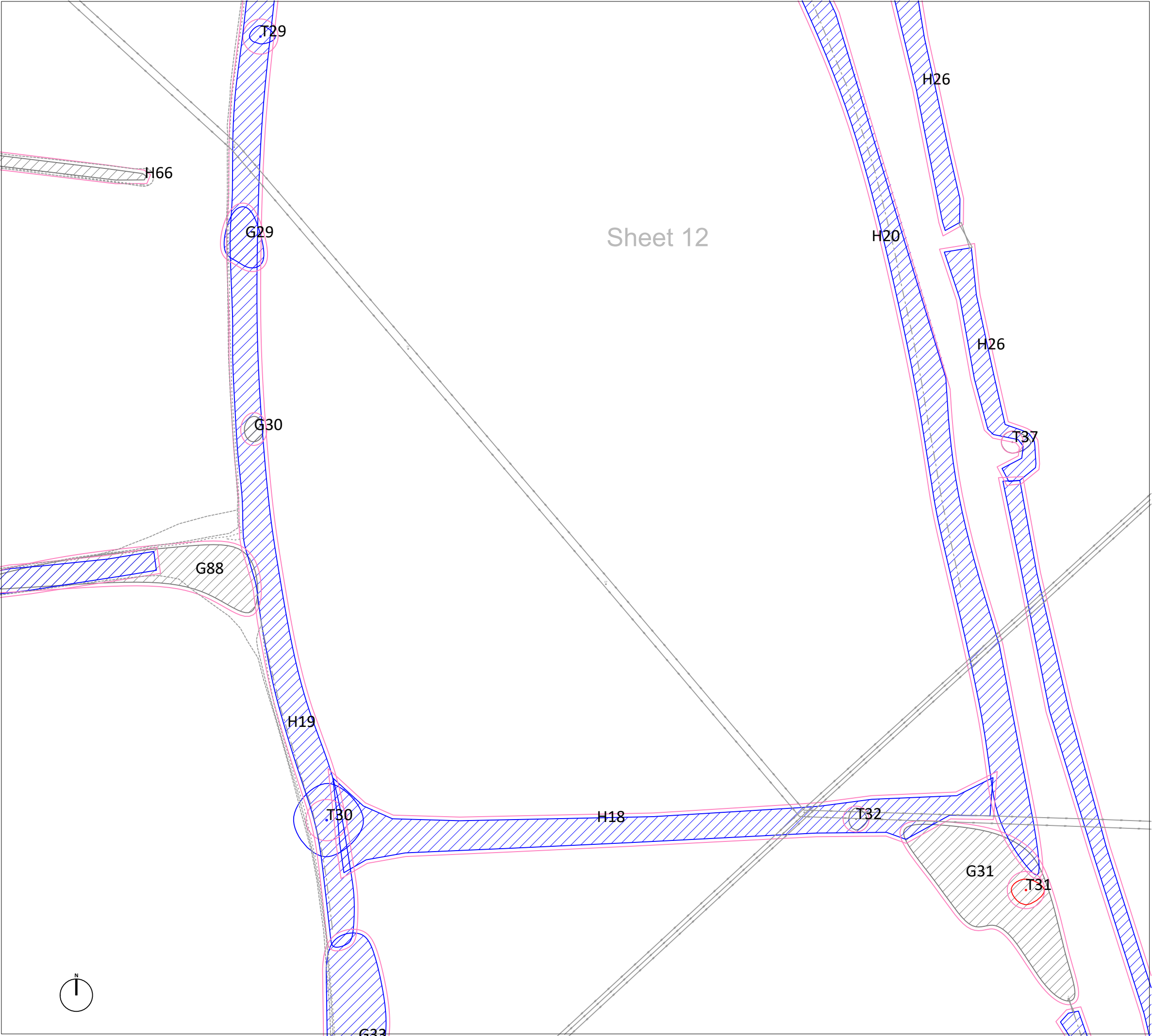
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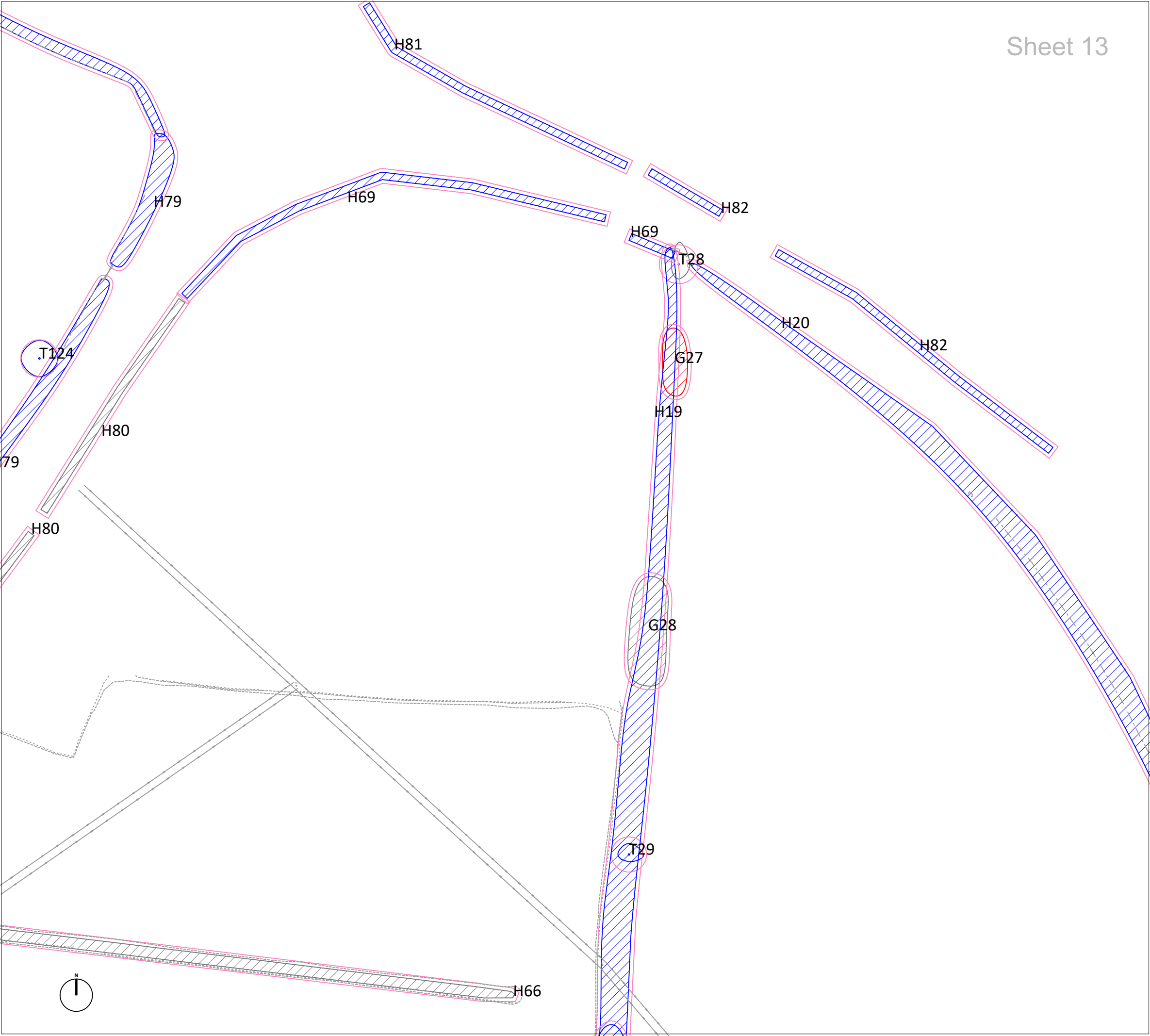
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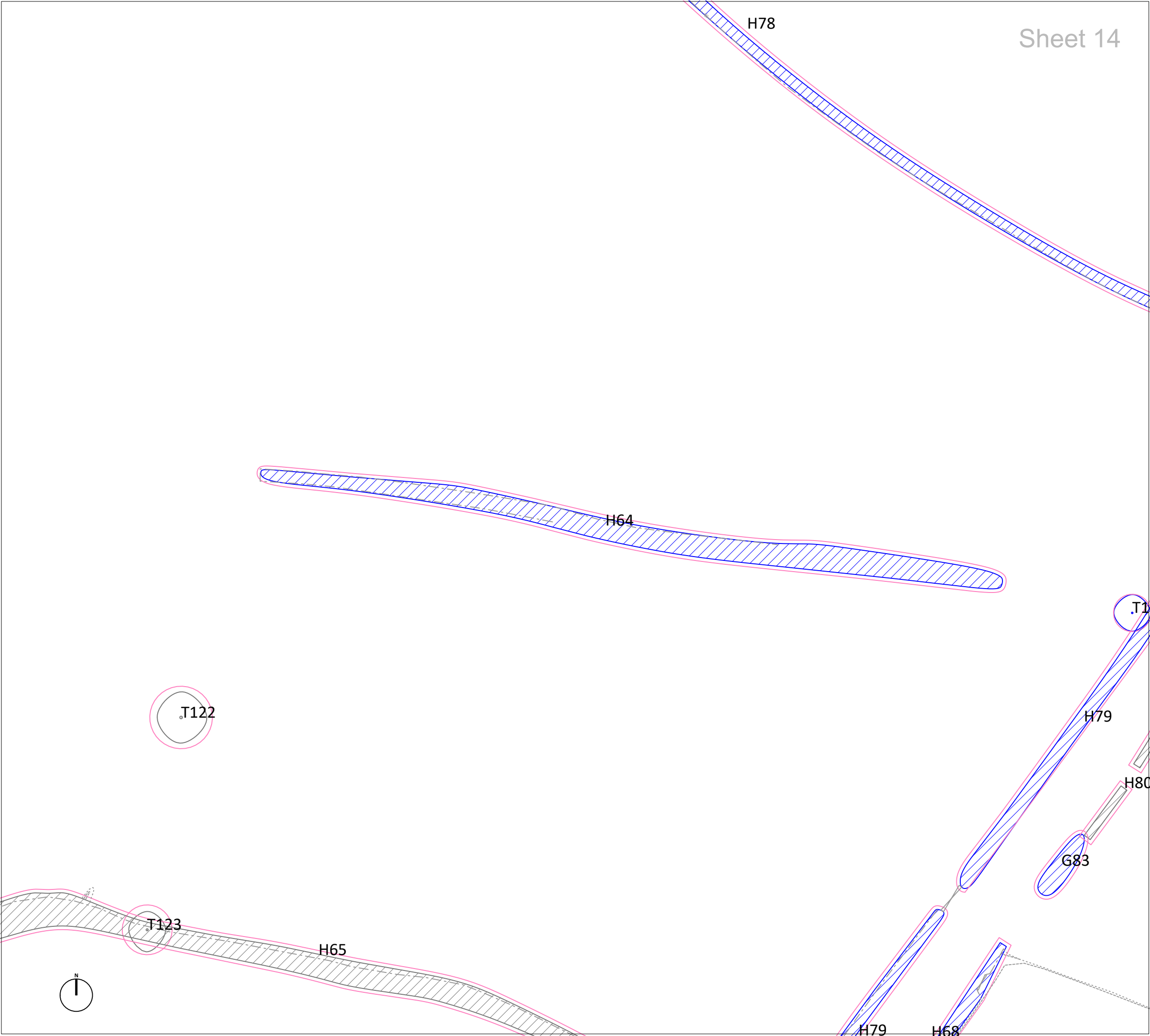
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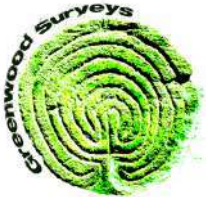
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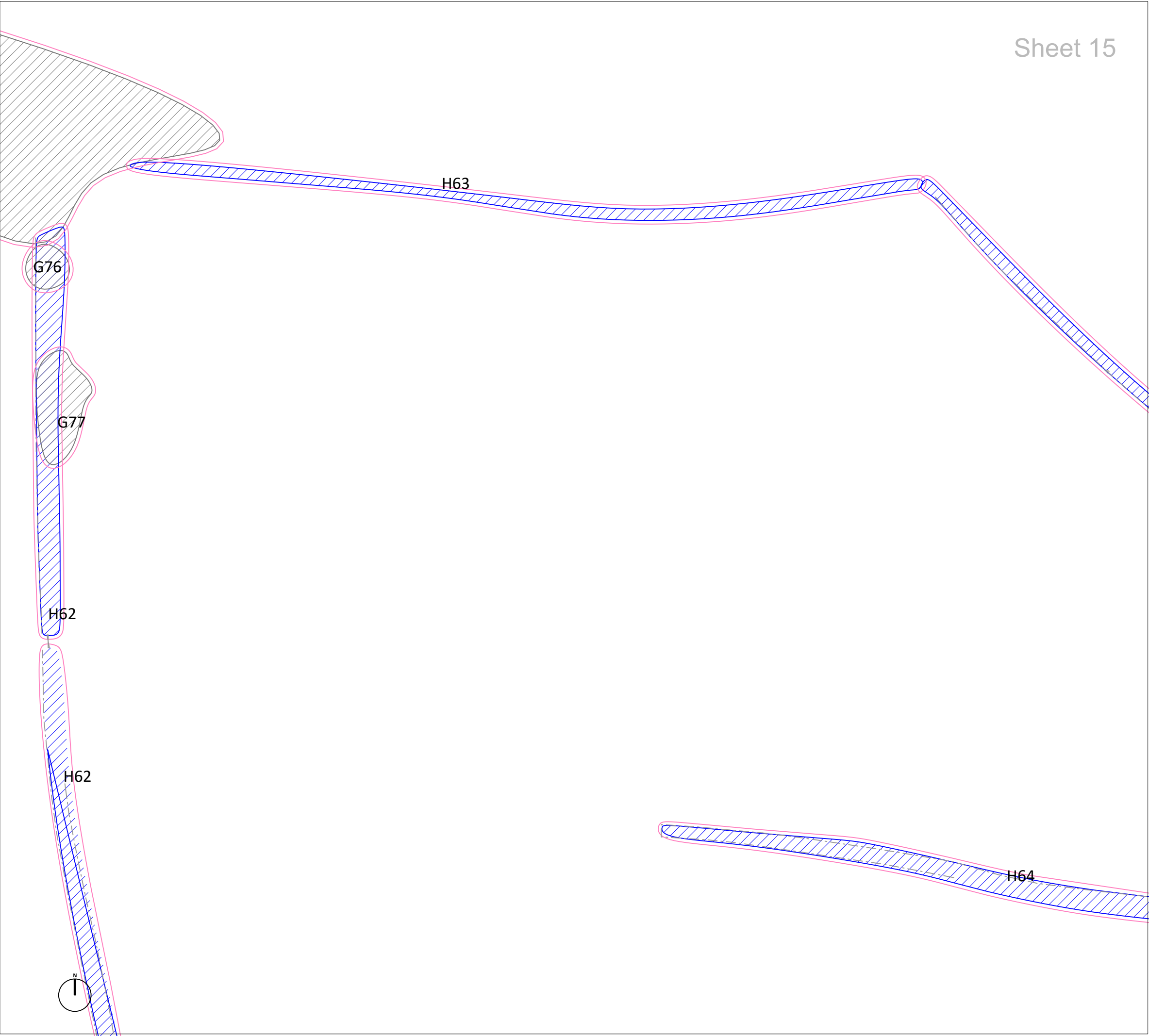
Date: 20/06/2025

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Sheet 15

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- T# Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
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Client:
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Project:
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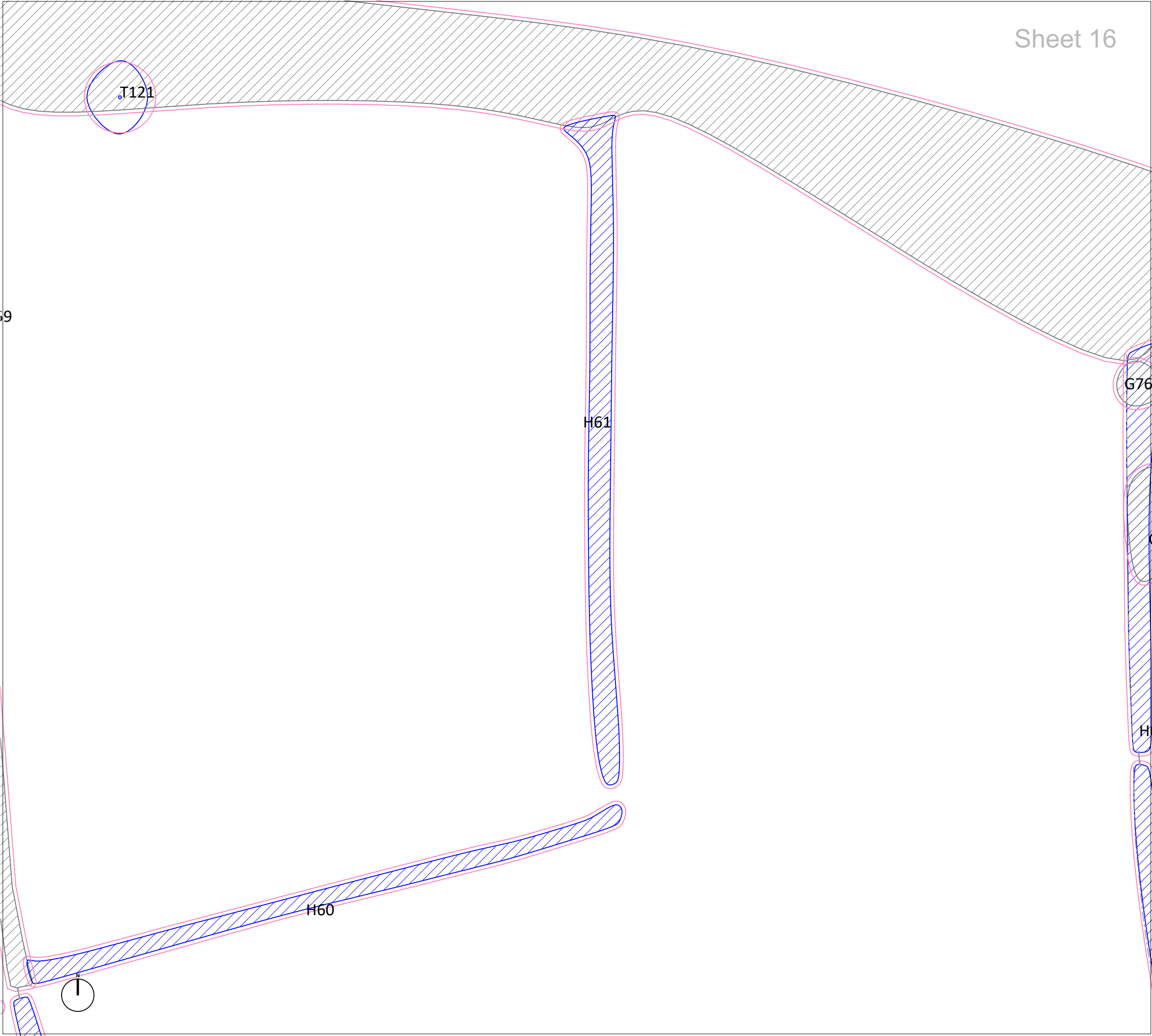
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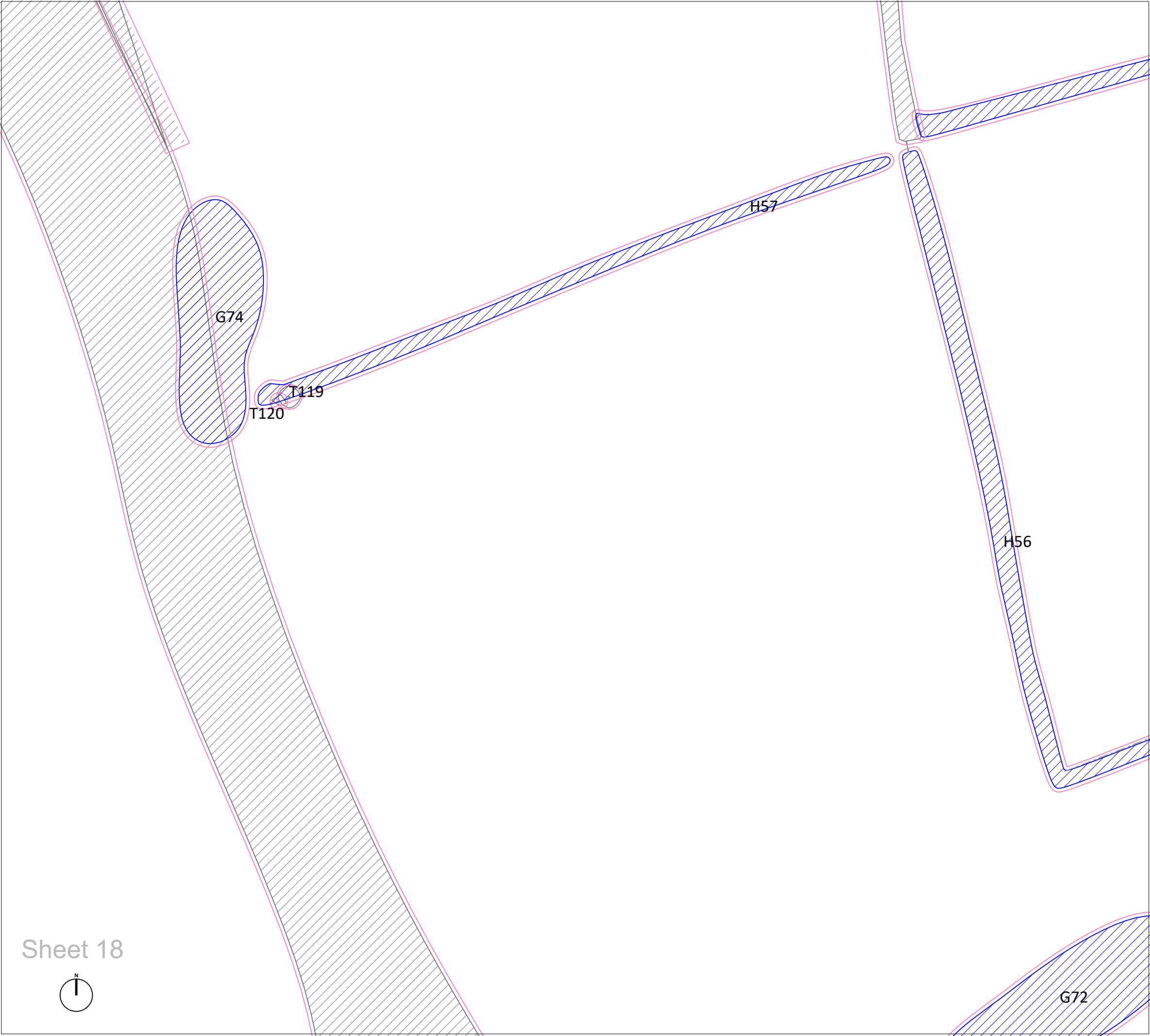
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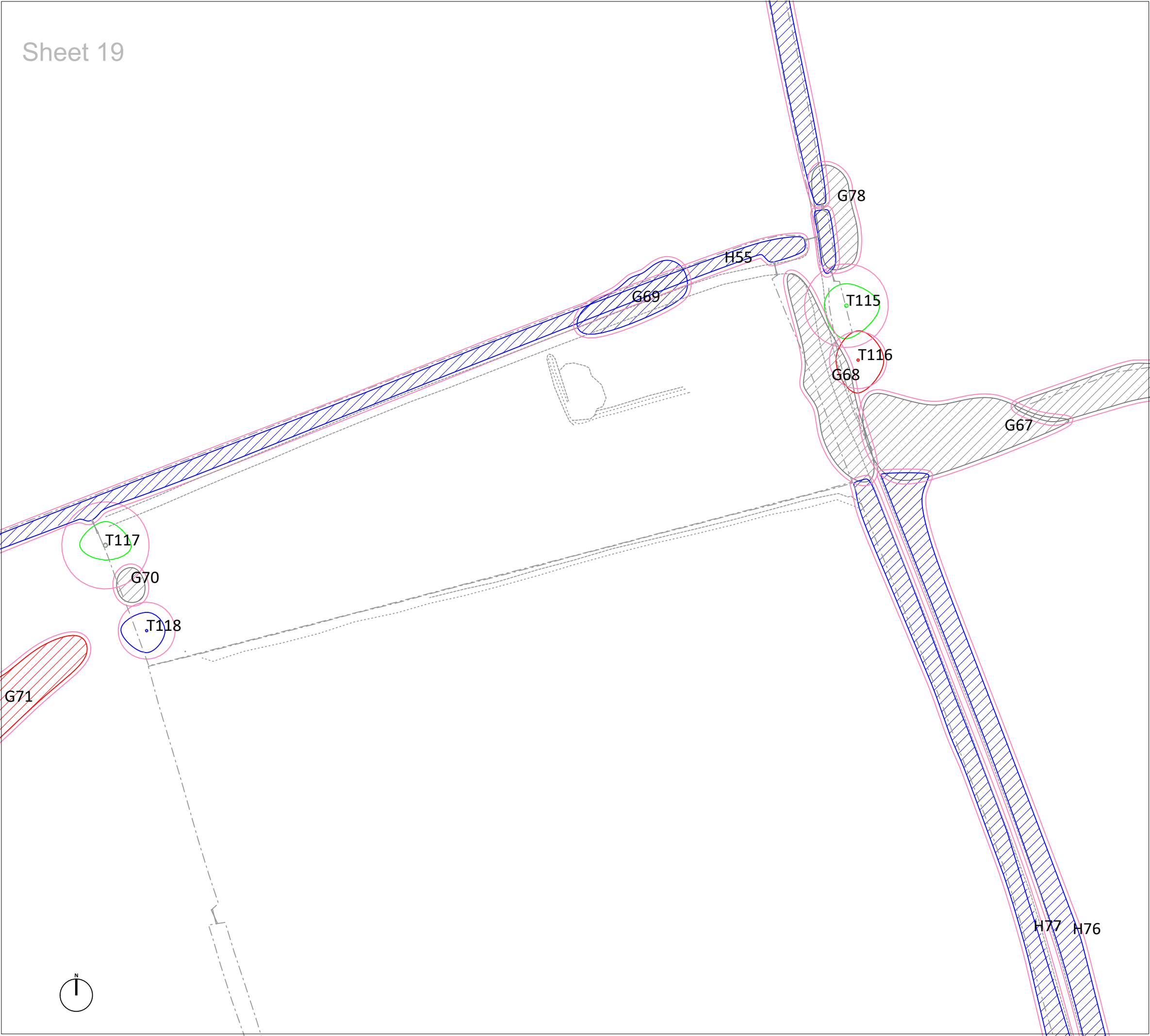
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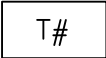
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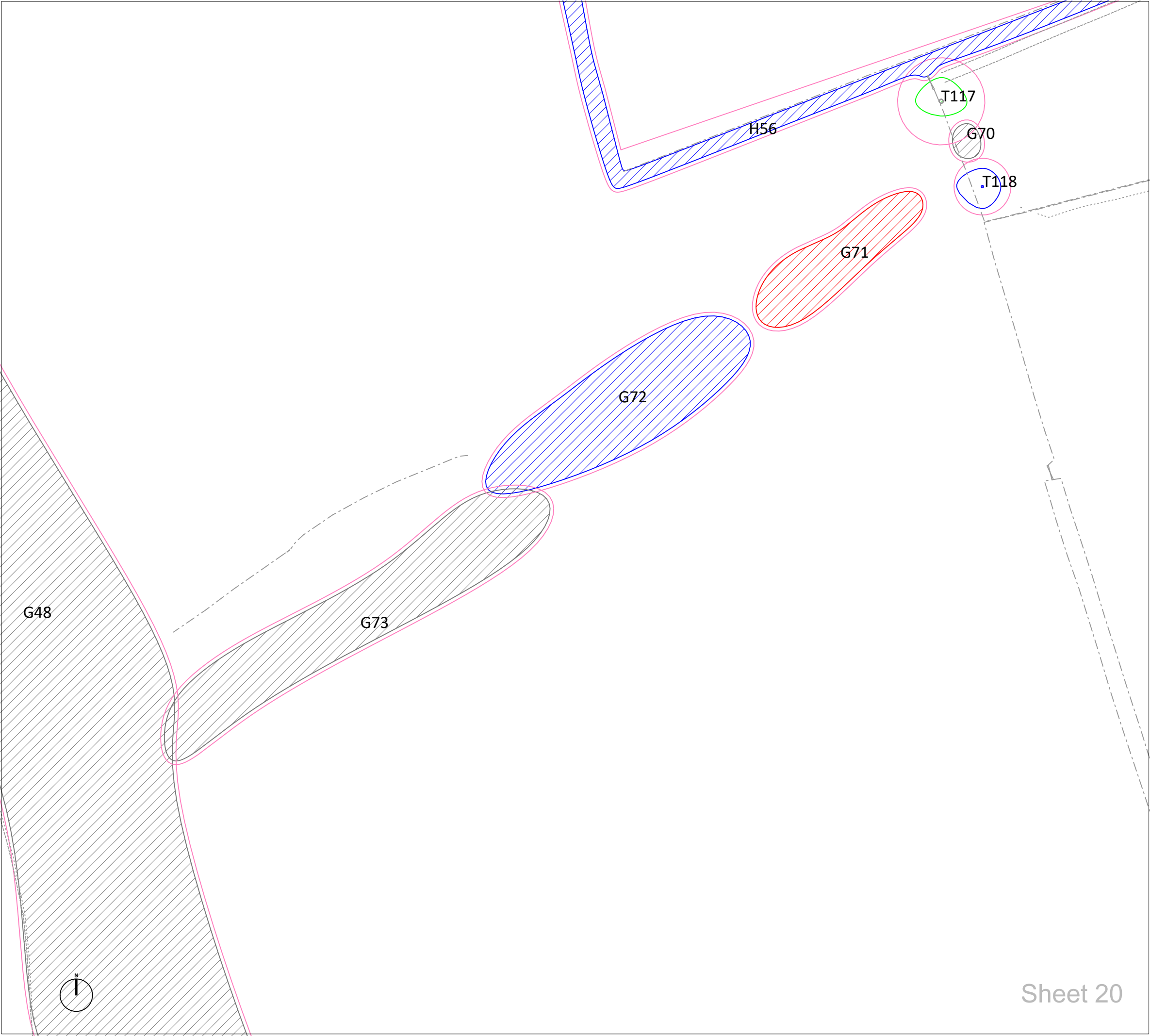
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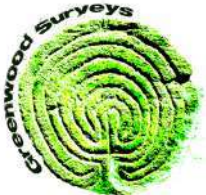
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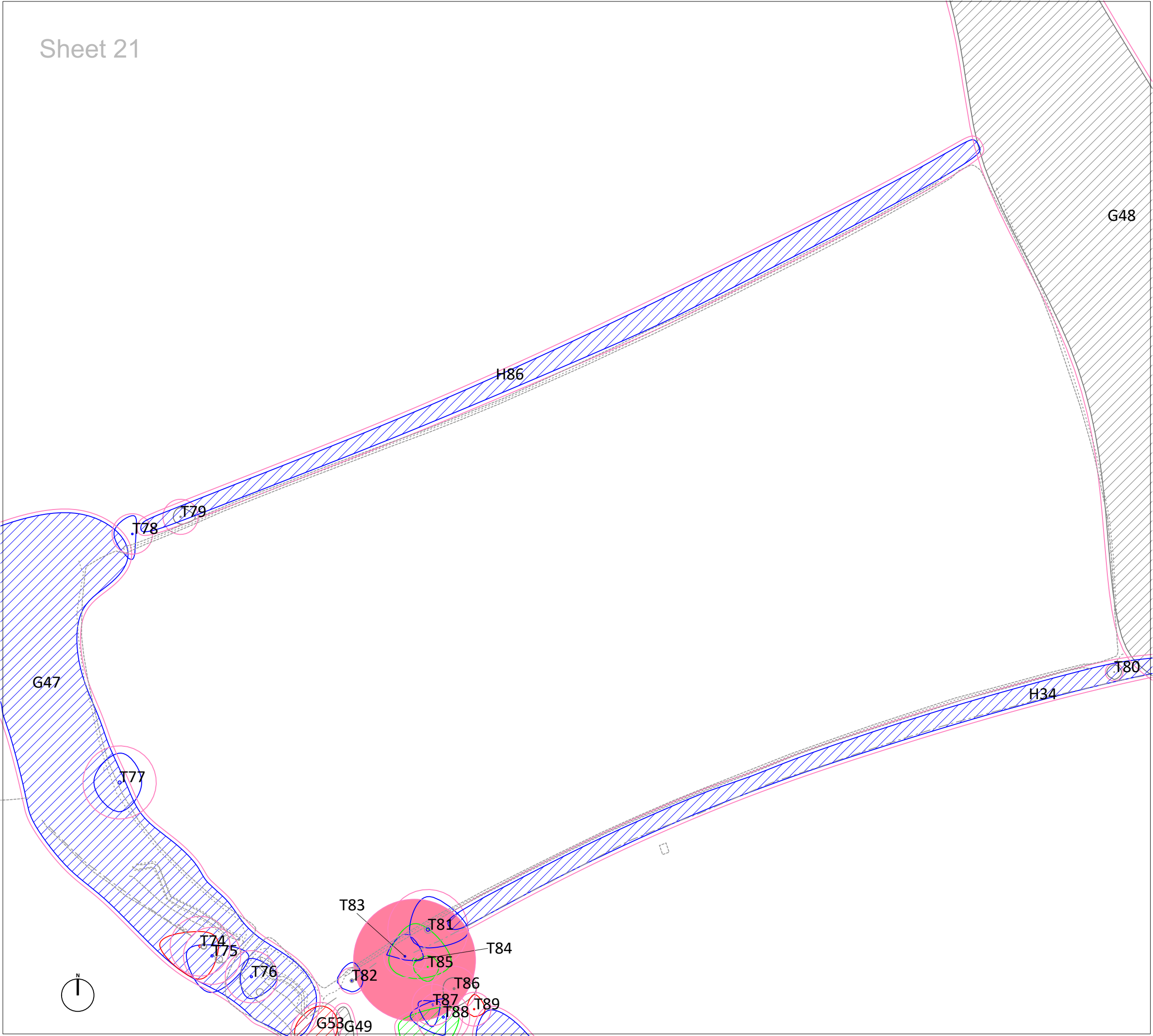
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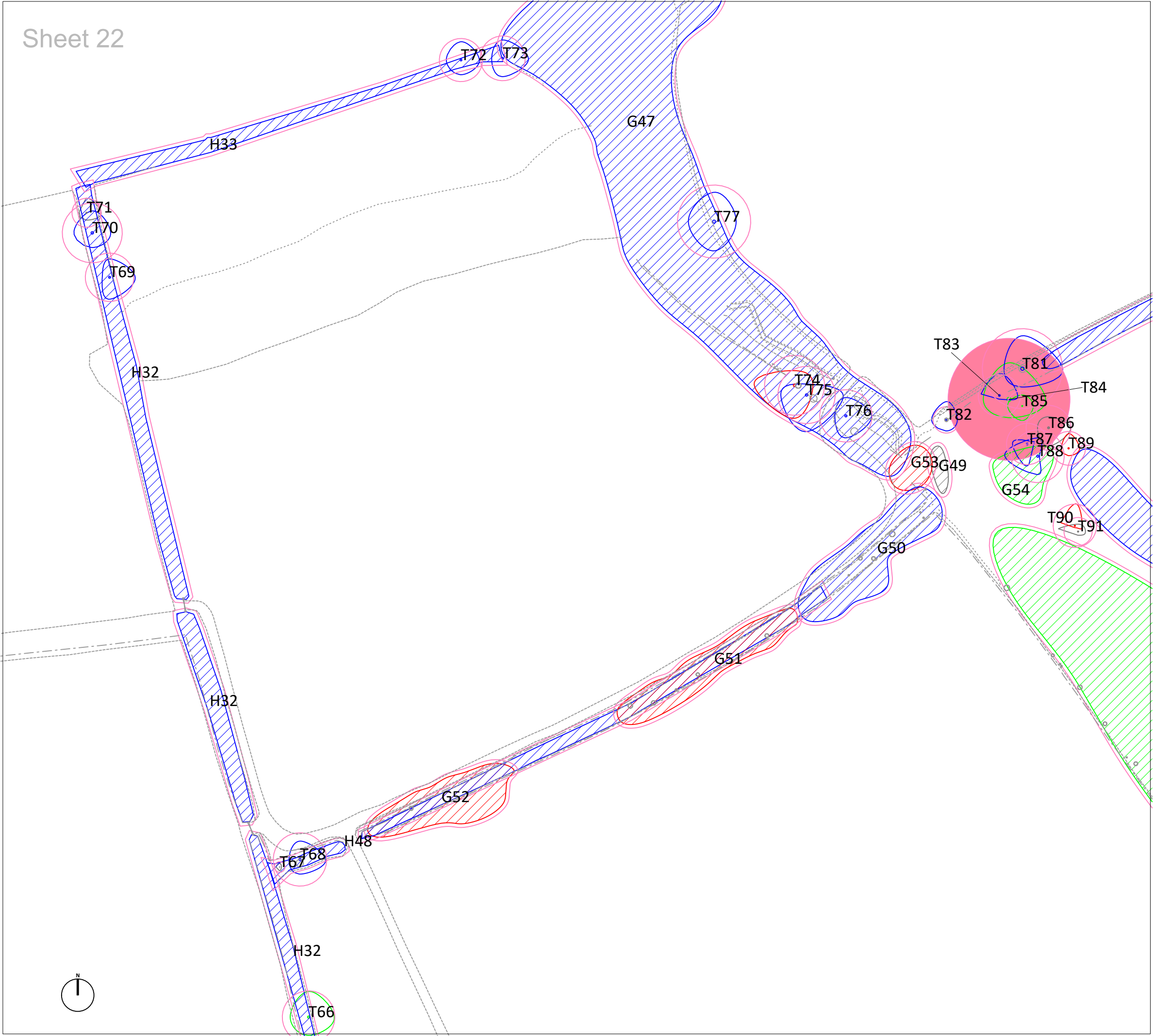
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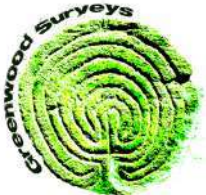
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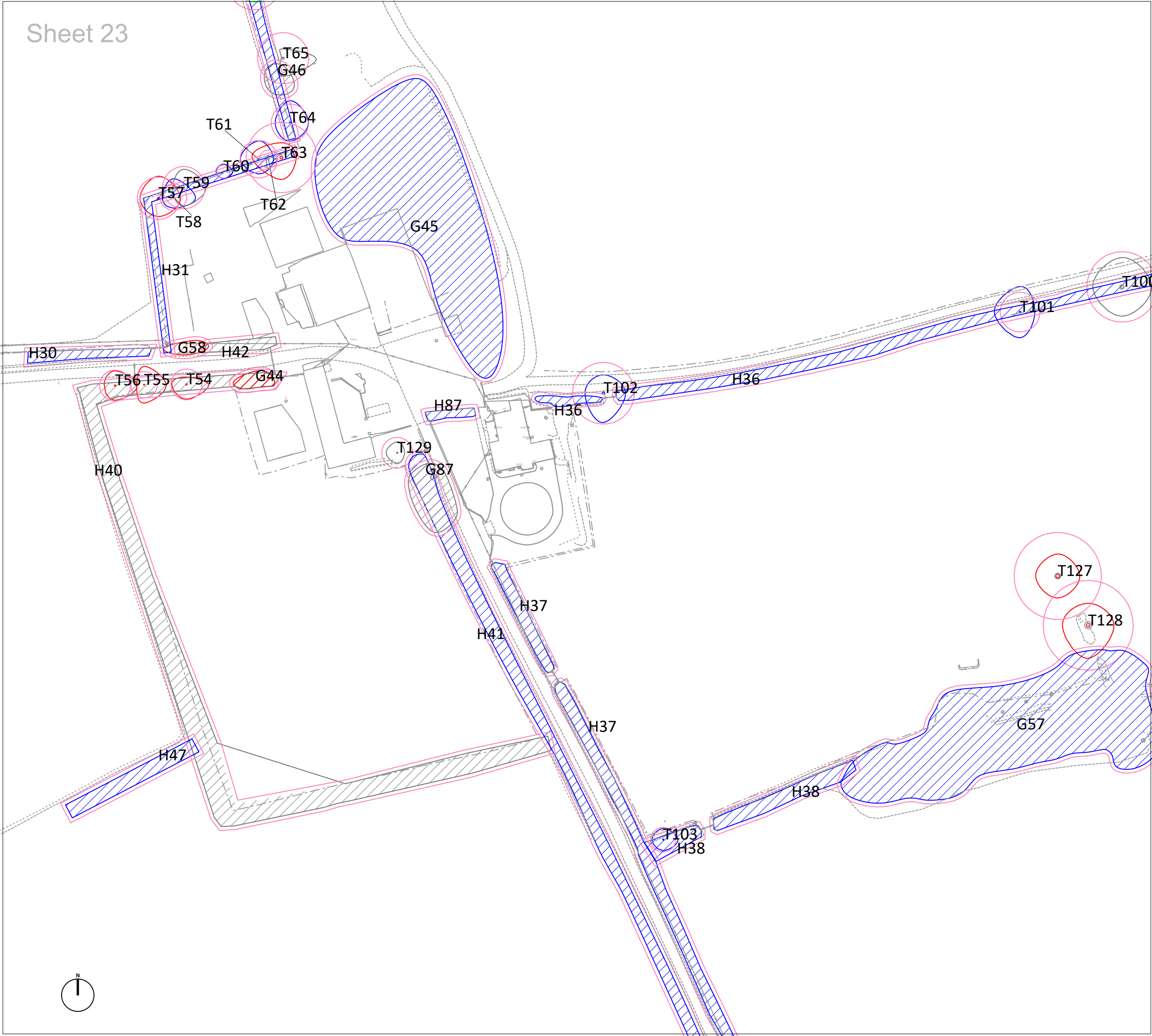
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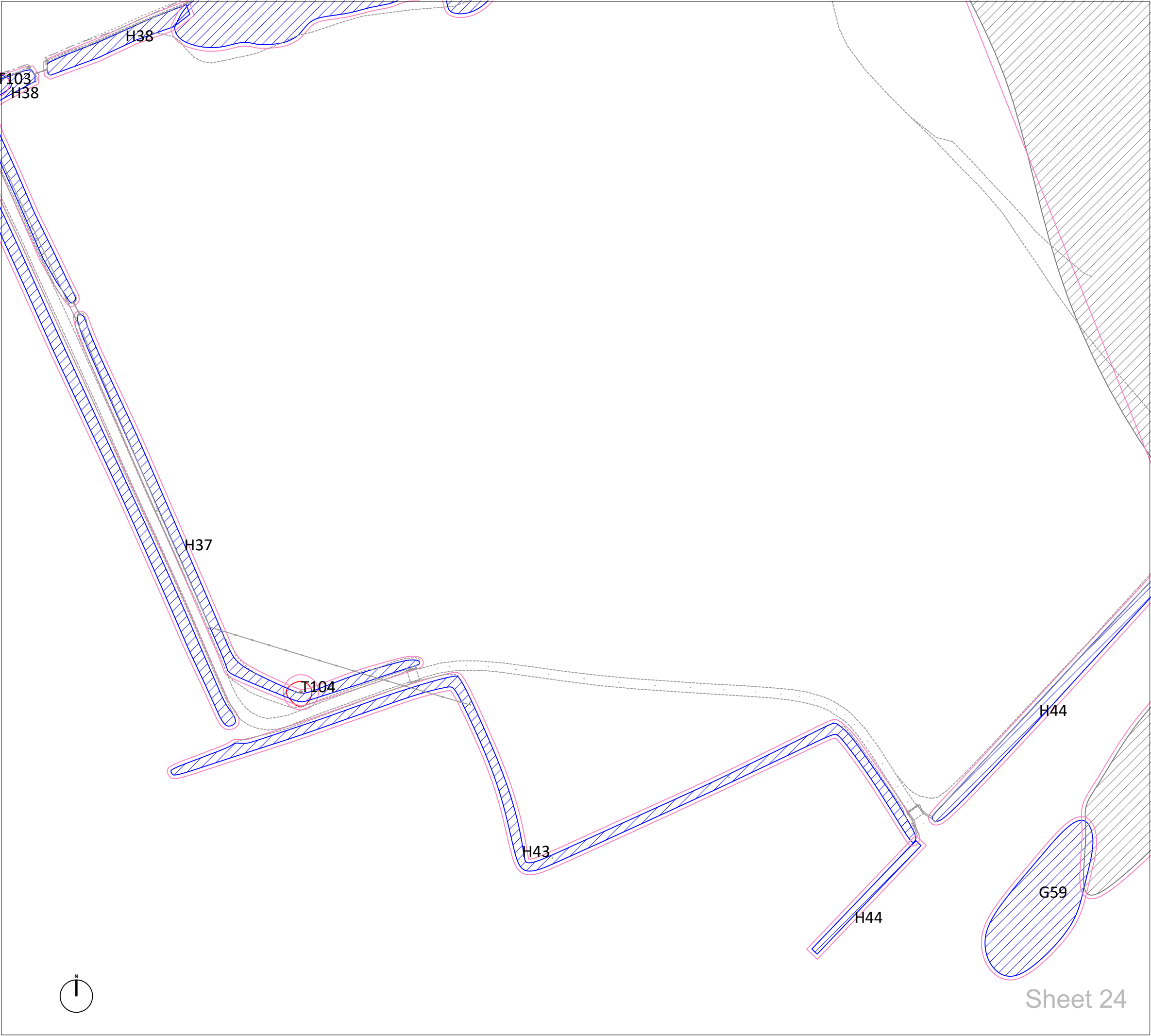
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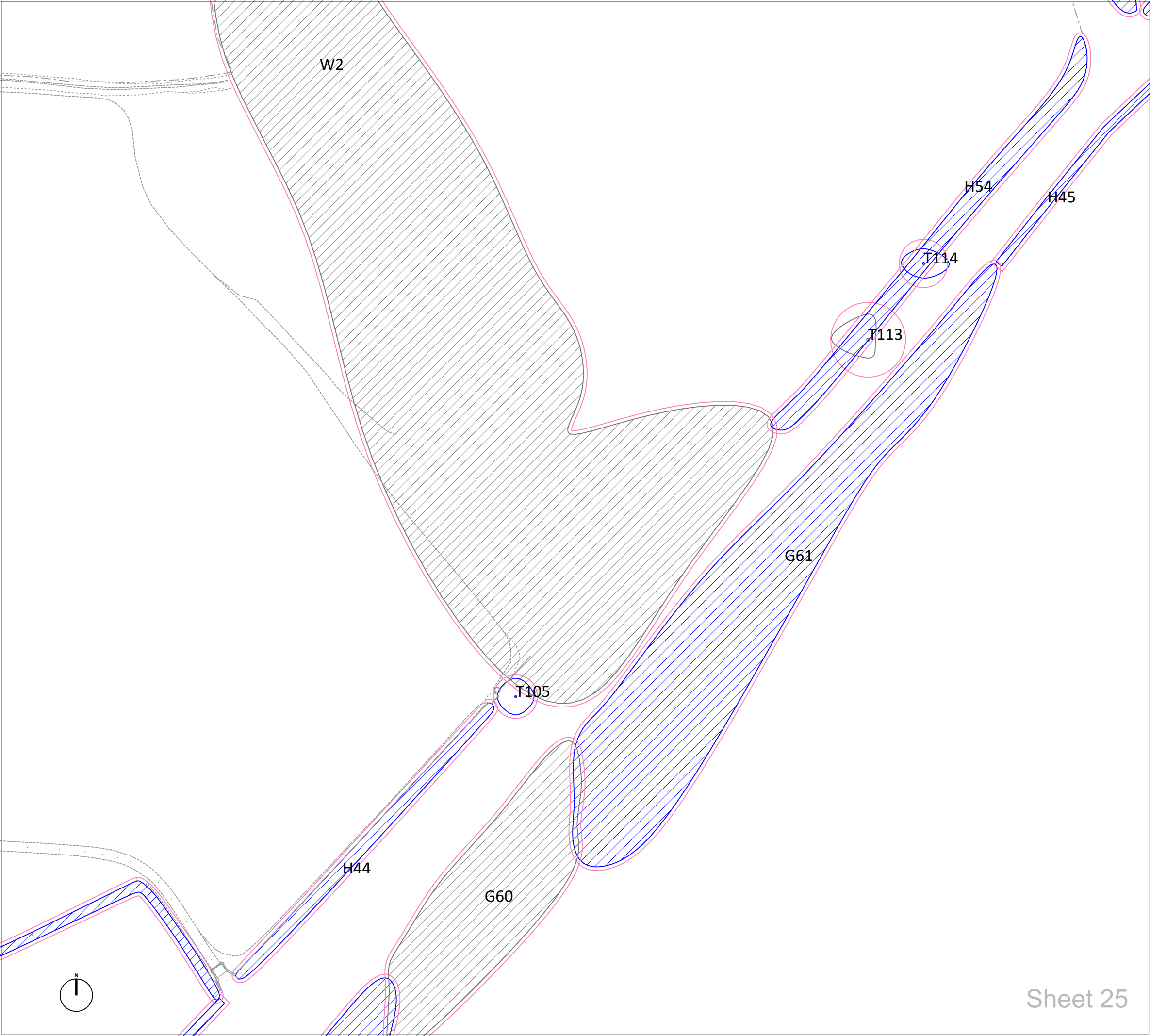
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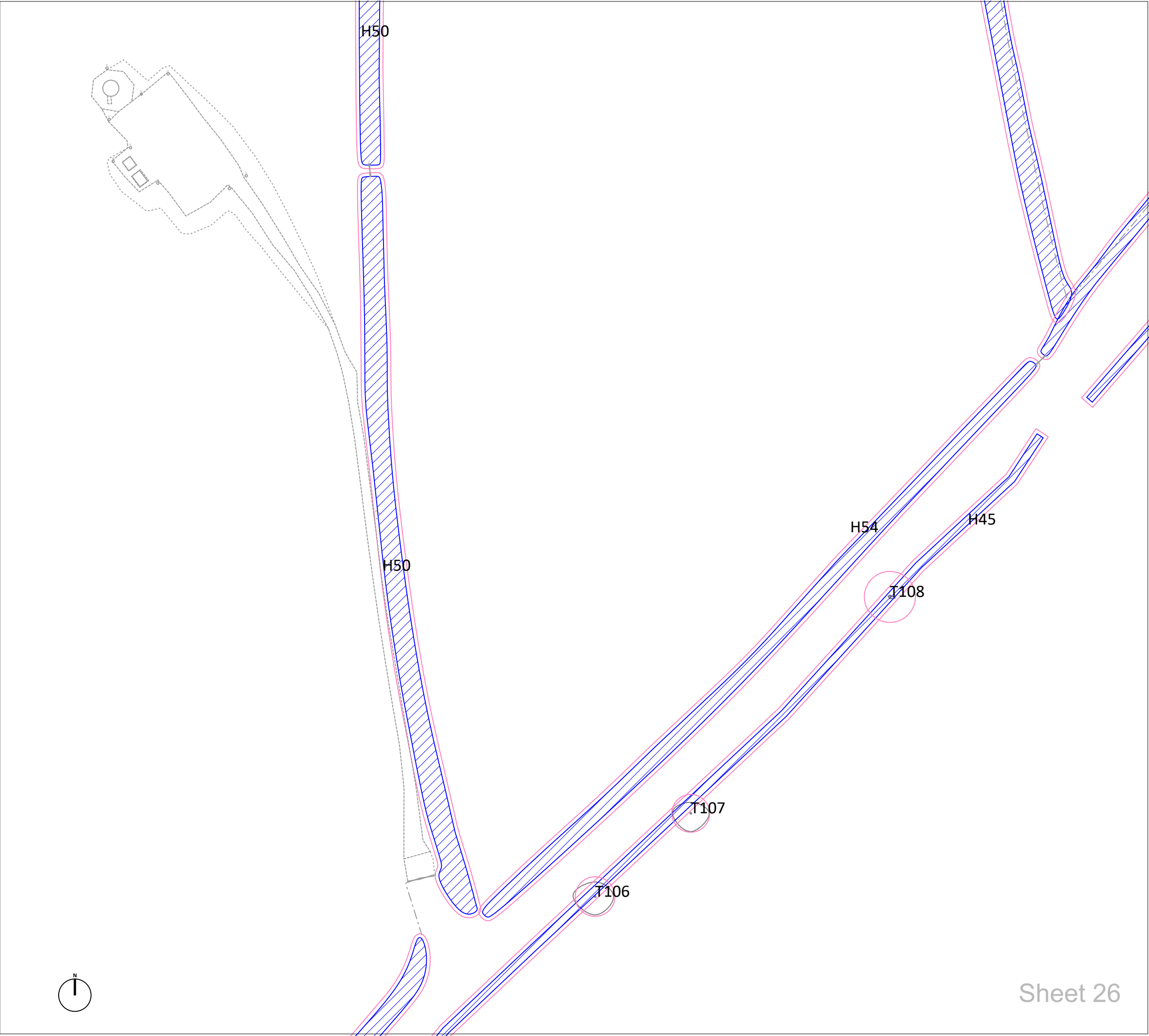
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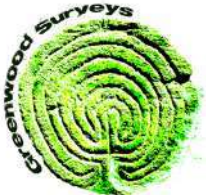
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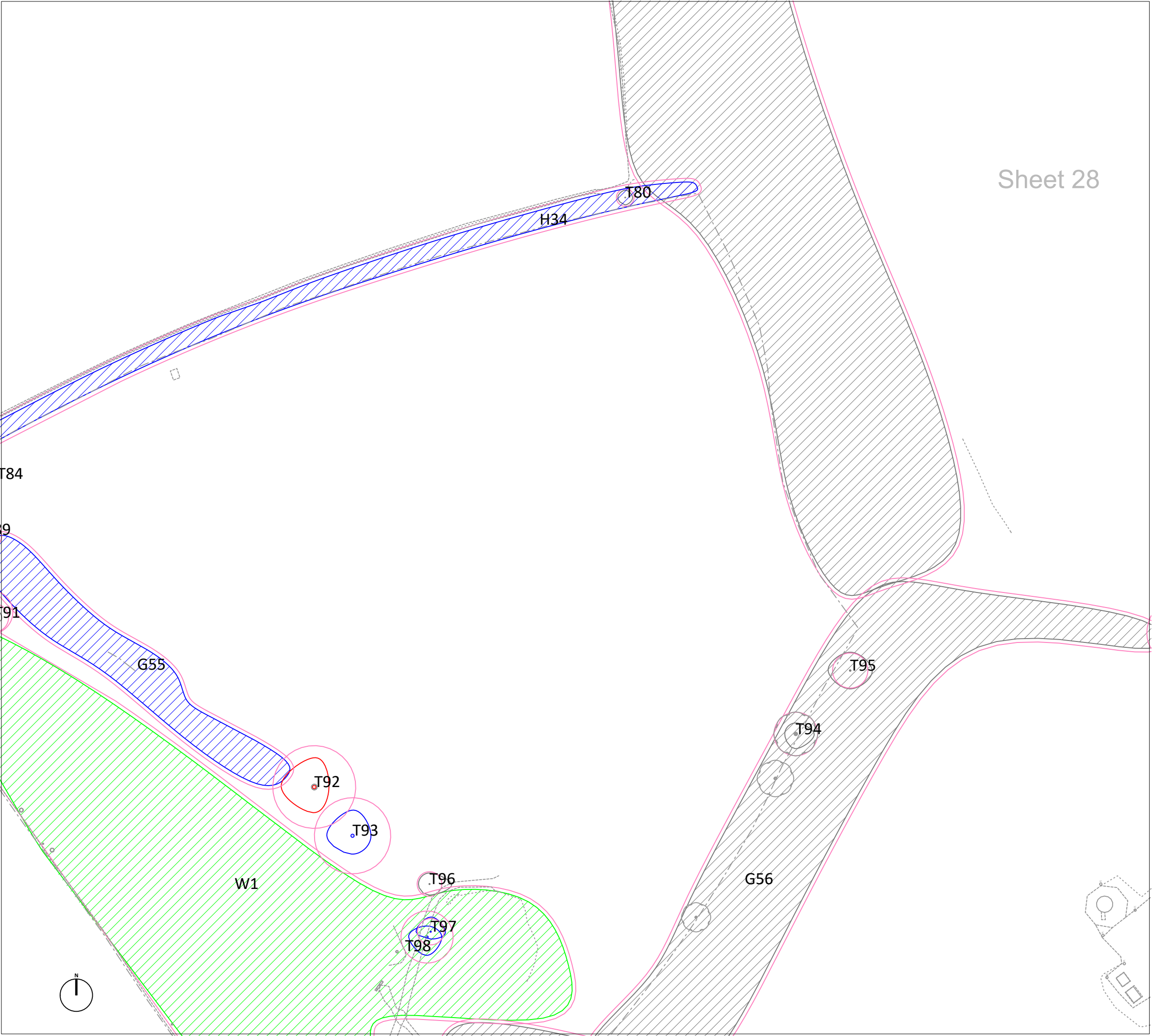
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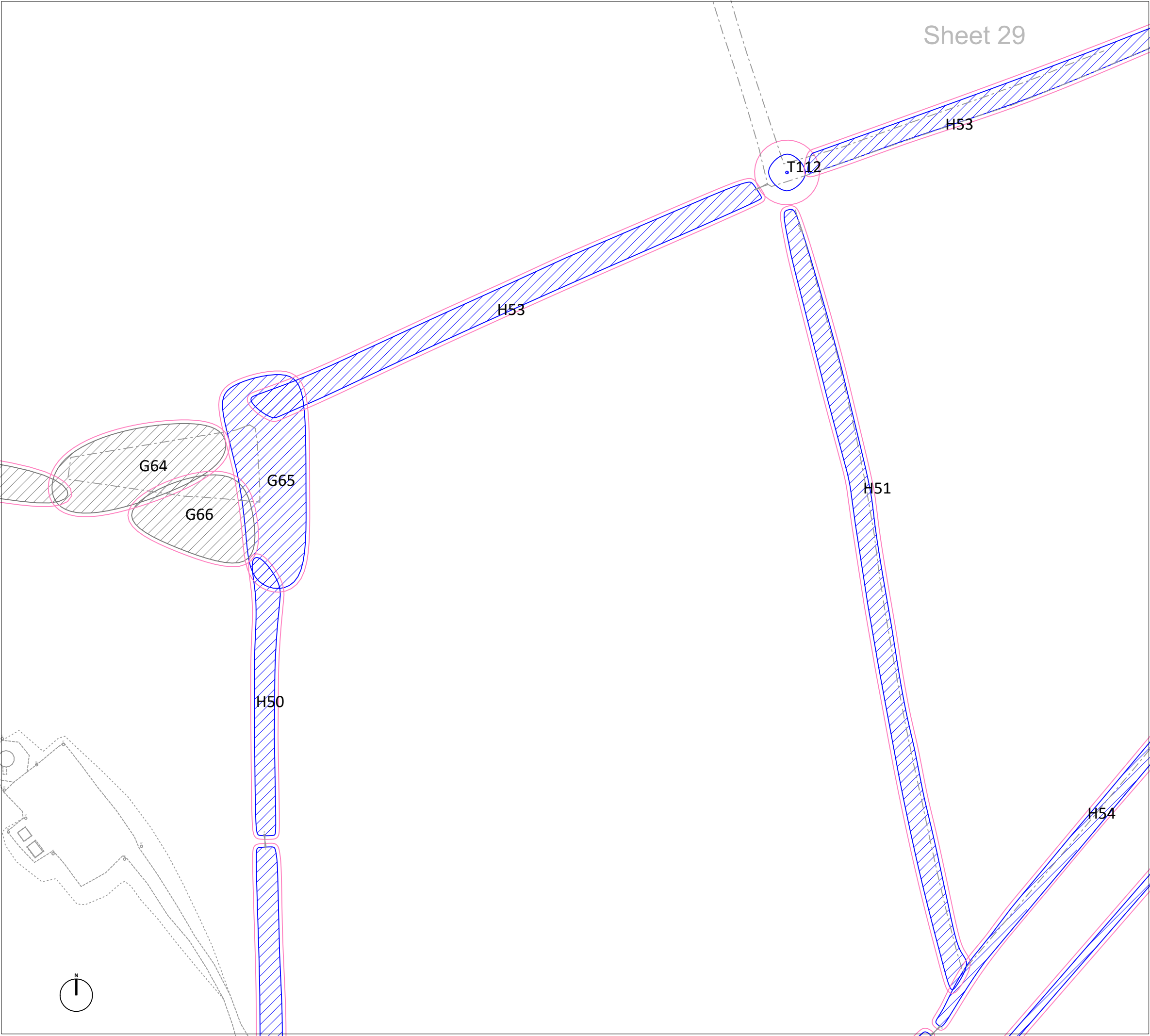
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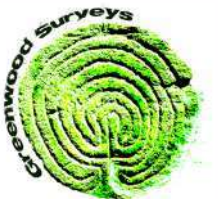
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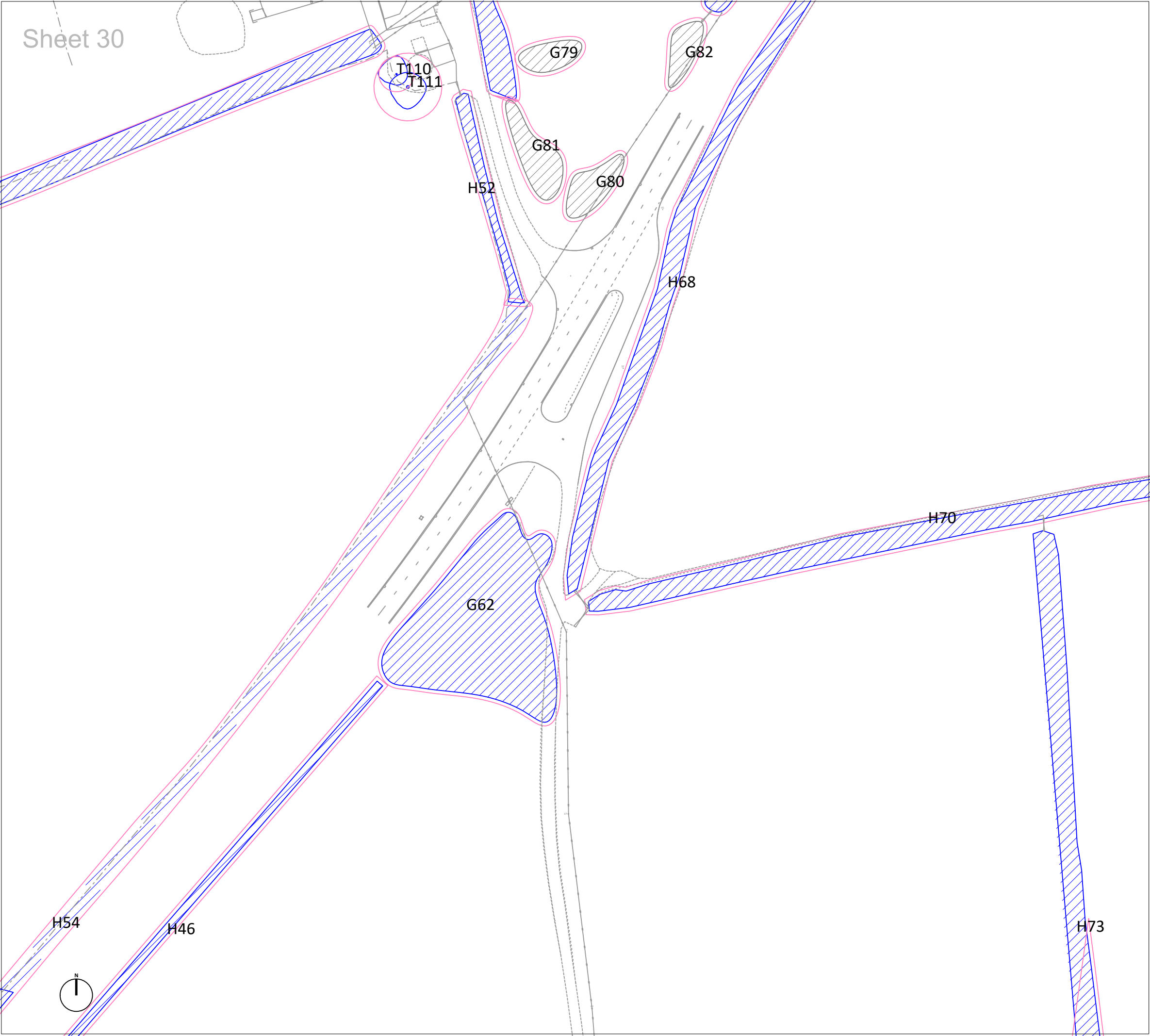
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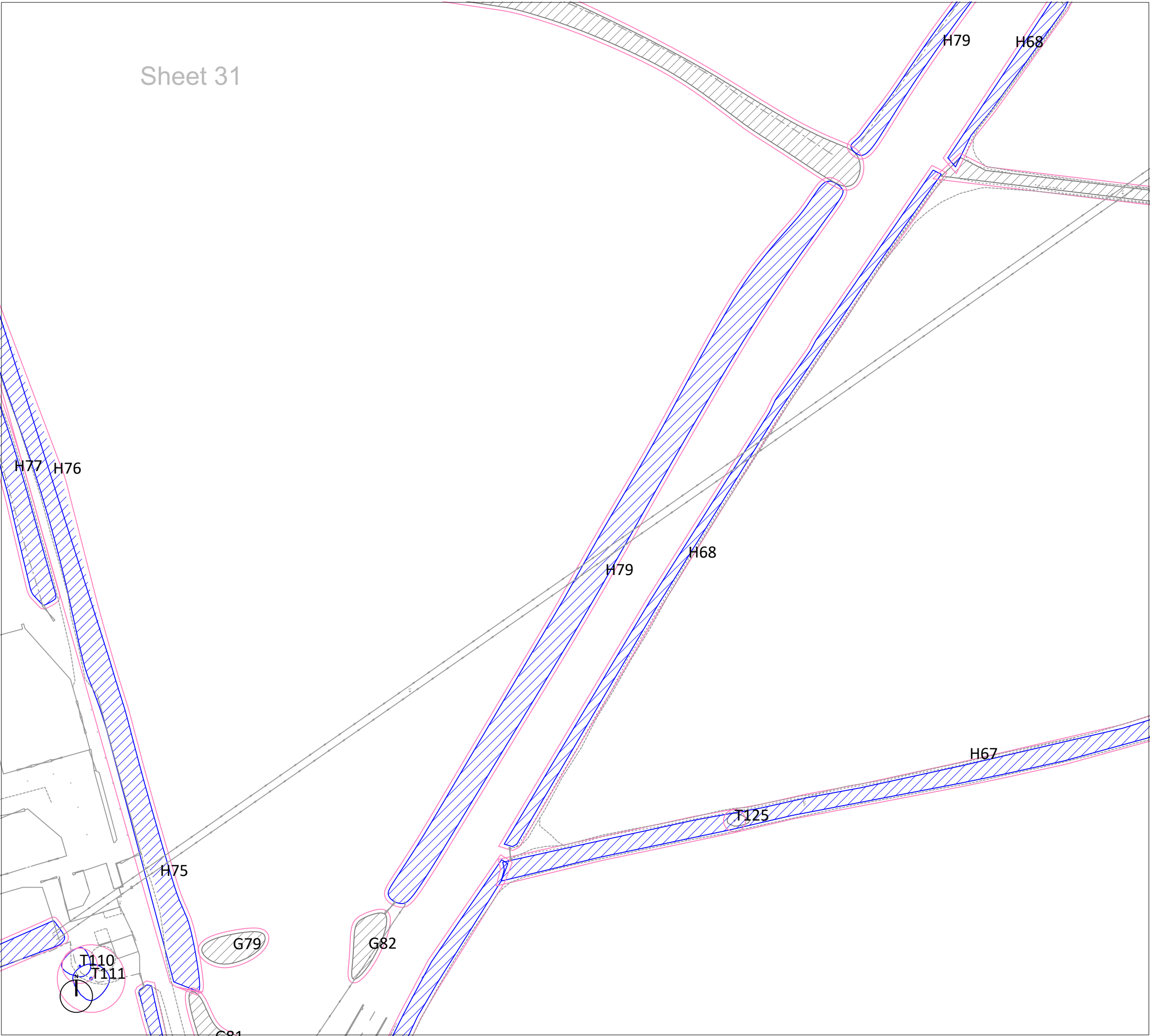
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- Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012

Buffer zone for ancient and veteran trees as described in Natural England standing advice.

P01	FIRST ISSUE	20/06/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE CONSTRAINTS PLAN

Drawing No: GWS-2331-TCP

Scale: 1:1000 @ A3

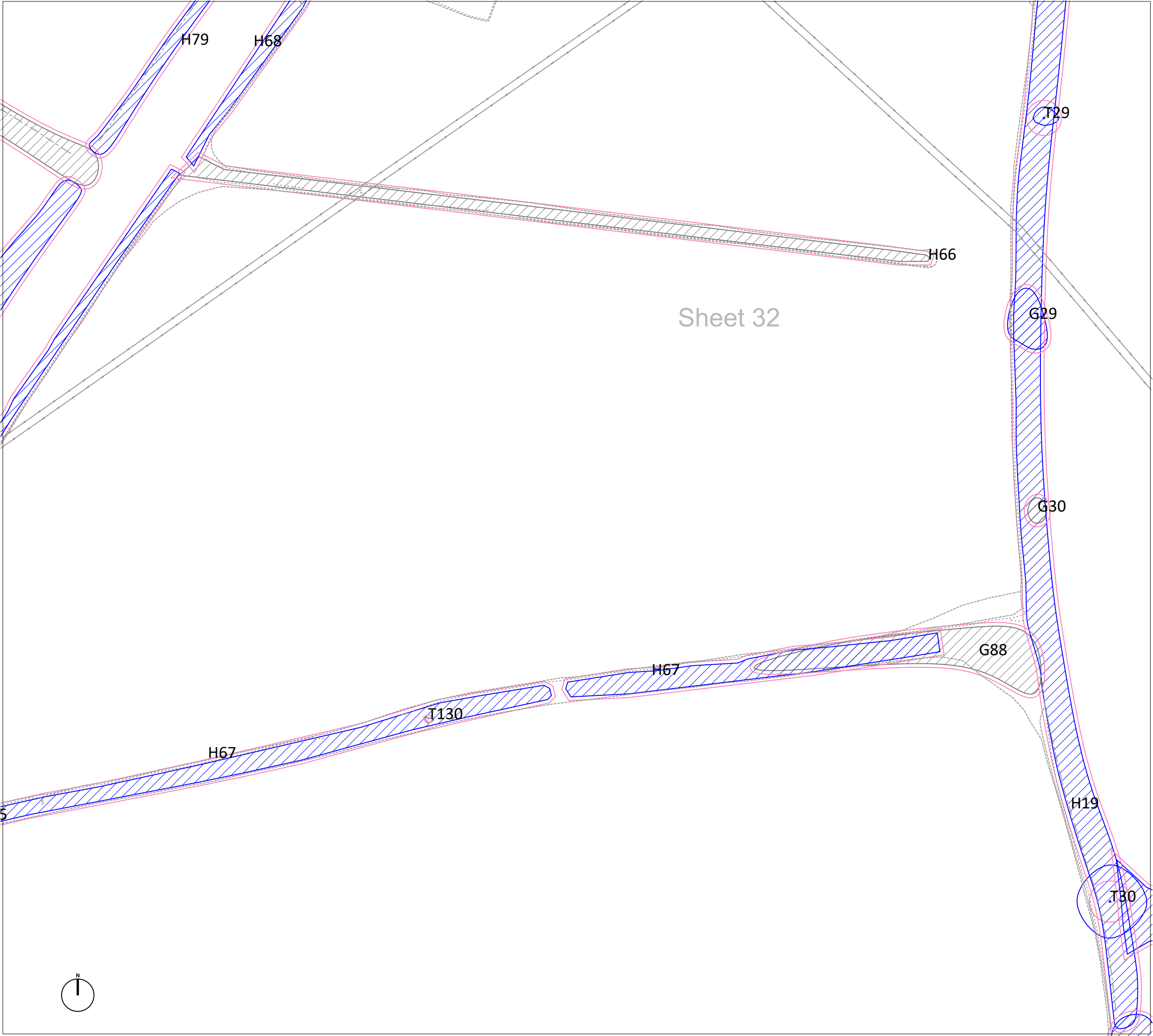
Date: 20/06/2025

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LEGEND

- T# Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
- Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years. Groups/hedges/woodland are denoted with hatching
- Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Groups/hedges/woodland are denoted with hatching
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P01
Rev.

FIRST ISSUE
Issue Details.

20/06/2025
Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE CONSTRAINTS PLAN

Drawing No: GWS-2331-TCP

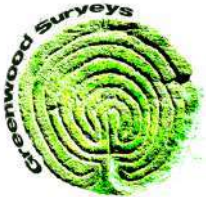
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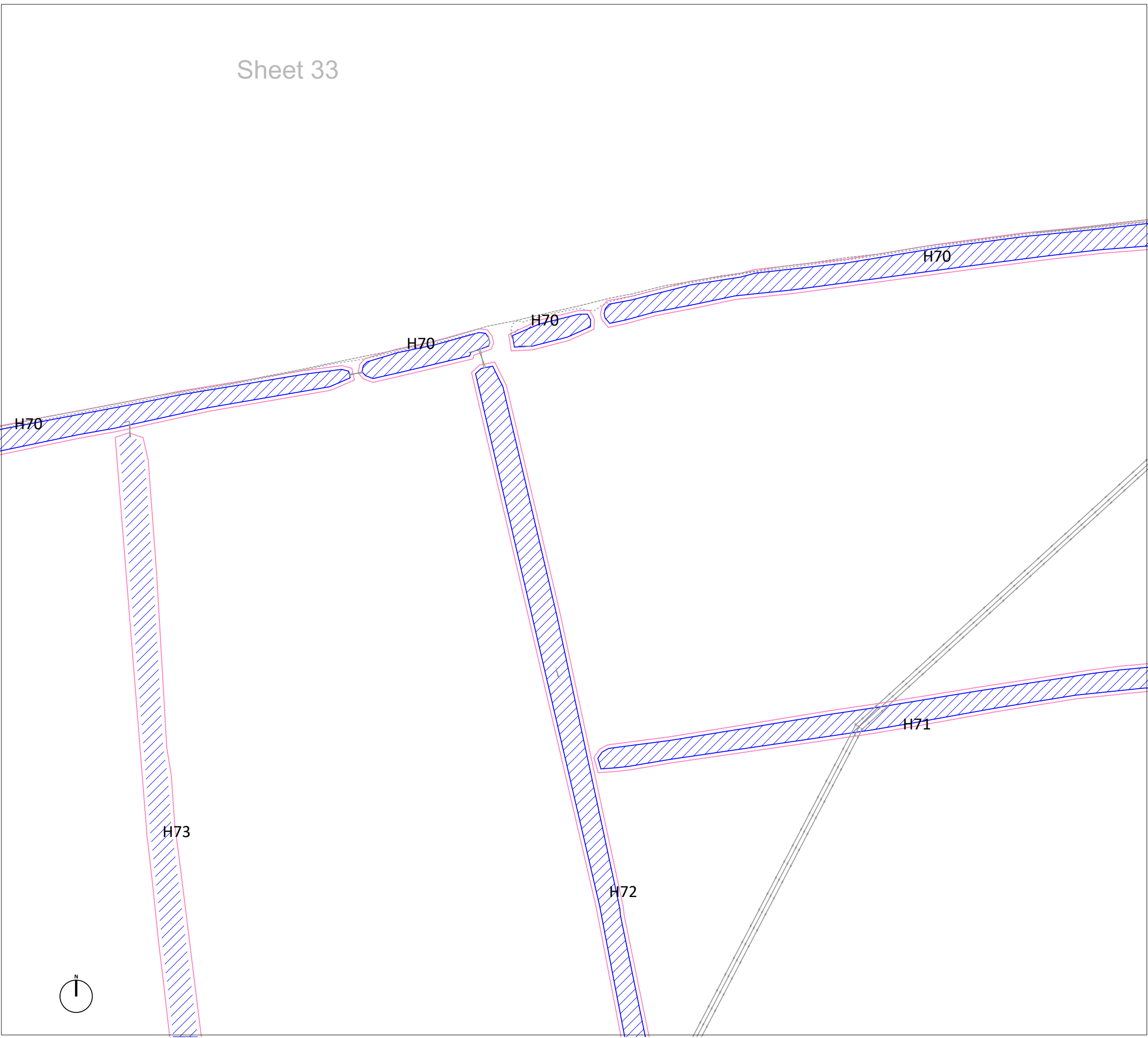
Date: 20/06/2025

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P01	FIRST ISSUE	20/06/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE CONSTRAINTS PLAN

Drawing No: GWS-2331-TCP

Scale: 1:1000 @ A3

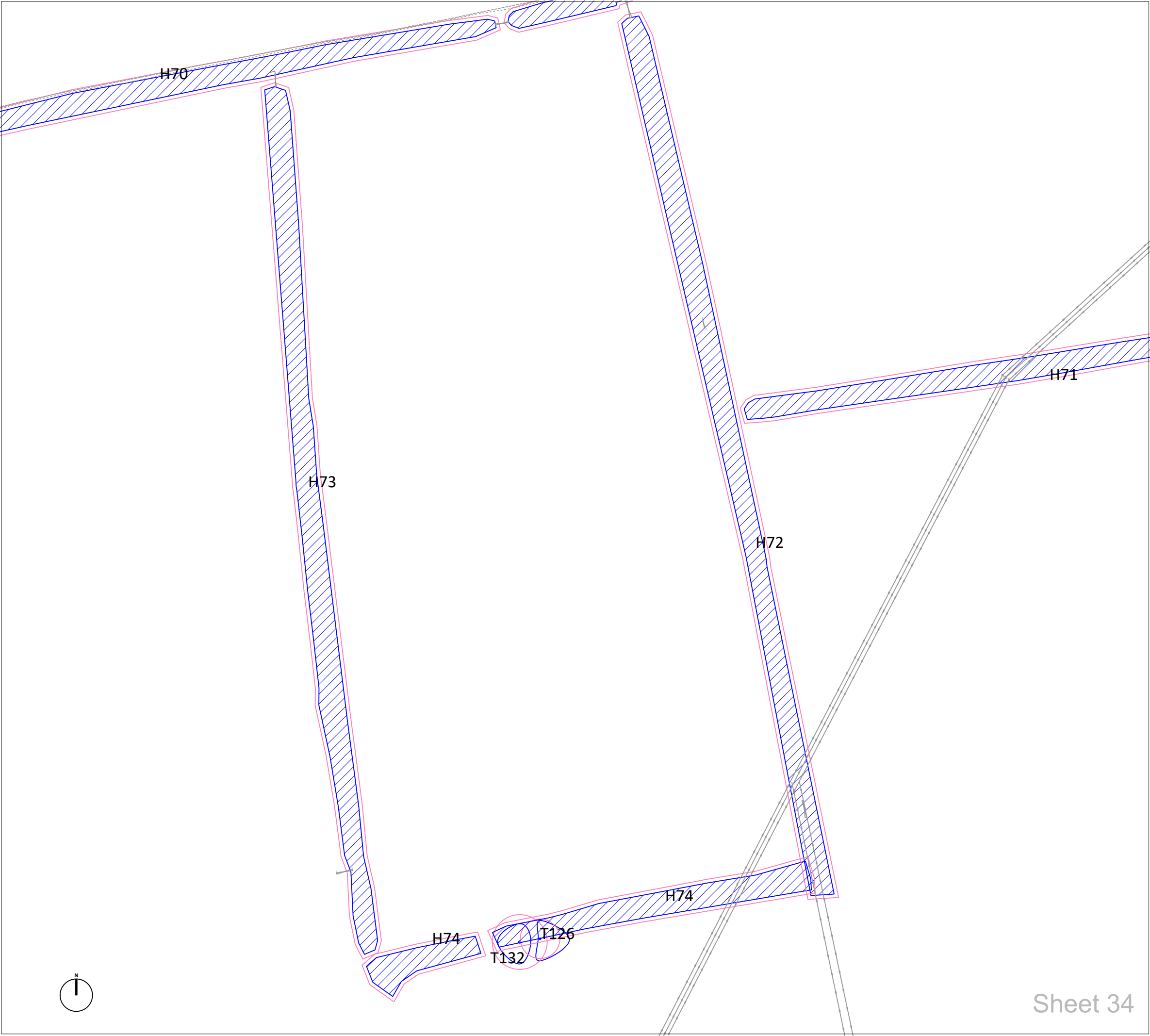
Date: 20/06/2025

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P01	FIRST ISSUE	20/06/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE CONSTRAINTS PLAN

Drawing No: GWS-2331-TCP

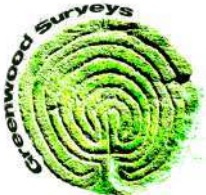
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Date: 20/06/2025

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Cheltenham, Gloucestershire GL50 2HX

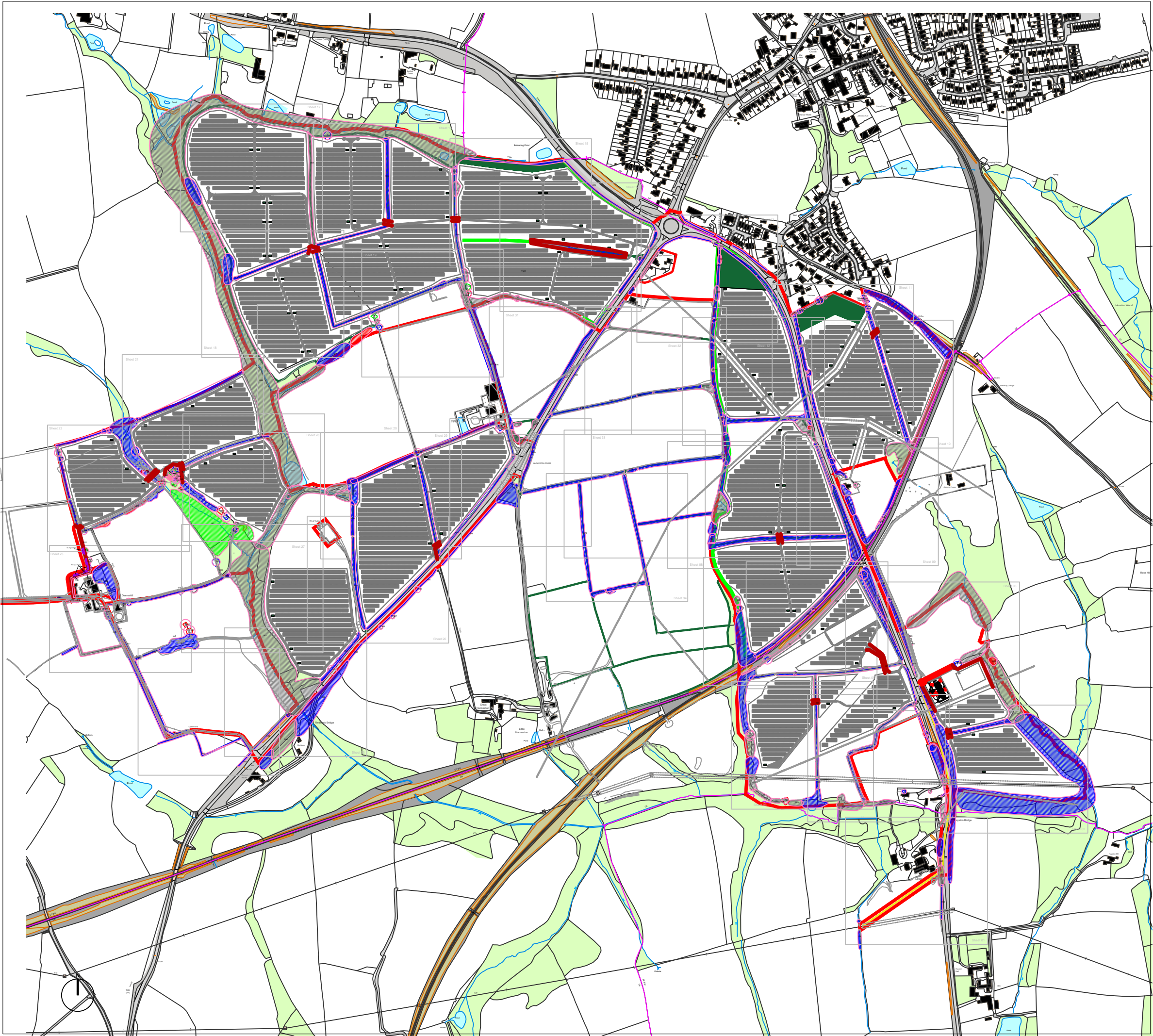
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Appendix D

Tree Protection Plan



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- T#

Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
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- Buffer zone for ancient and veteran trees as described in Natural England standing advice.
- Trees to be removed
- Tree Protection Fencing
- No-dig surfacing

Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.

Inside the barriers it is also essential that the following prohibitions are complied with:

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- No storage or handling of building materials, fuel, chemicals or spoil;
- No fires;
- No vehicular access;
- No pedestrian access; unless approved by the Local Planning Authority;
- No alteration, increase or decrease, to existing ground levels; unless approved by the Local Planning Authority;
- No excavation or installation of services; unless approved by the Local Planning Authority.

P03	LAYOUT REVISED	23/02/2026
P02	LAYOUT REVISED	06/02/2026
P01	FIRST ISSUE	26/09/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

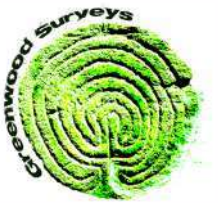
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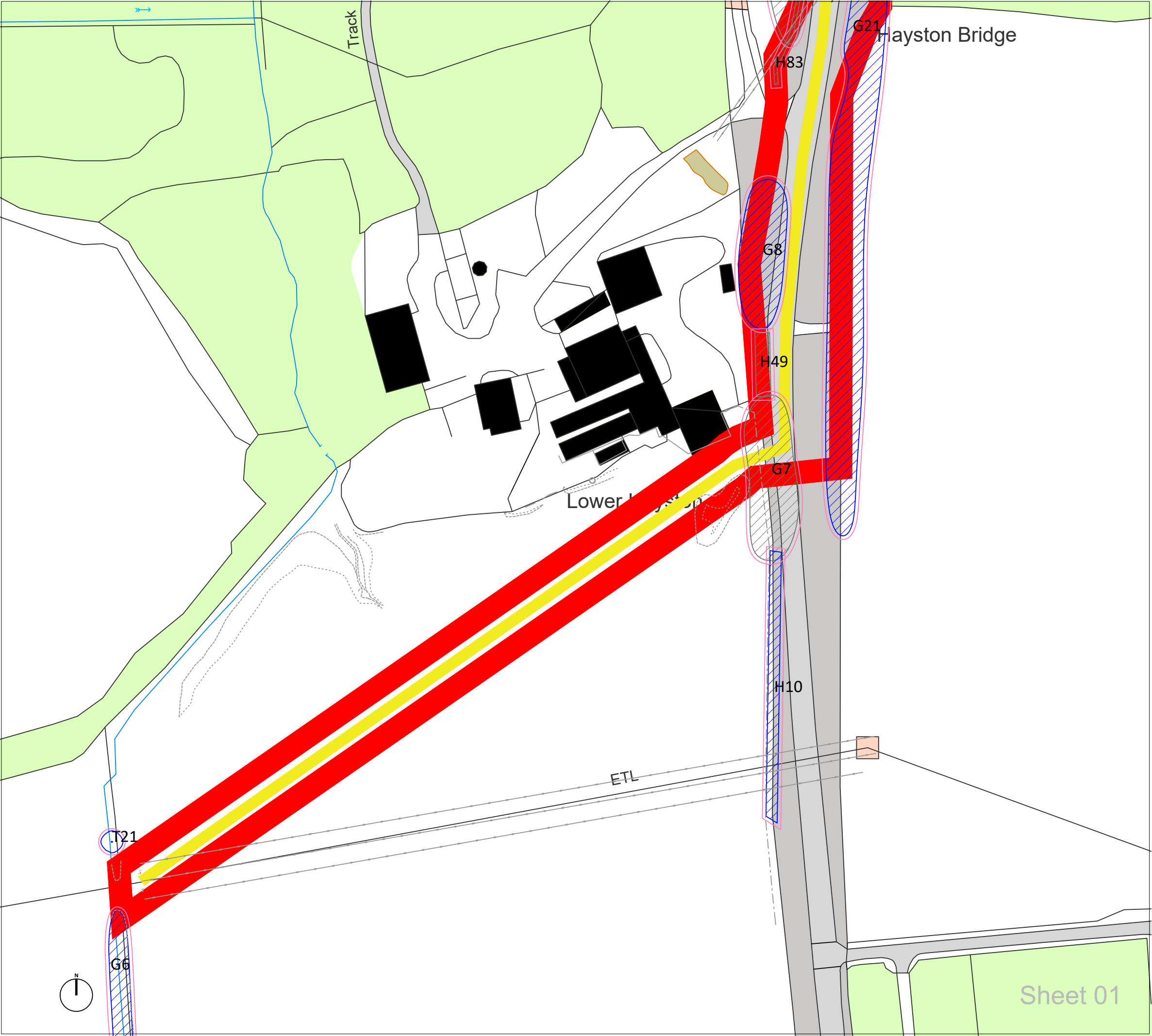
Date: 26/09/2025

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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing

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P03	LAYOUT REVISED	23/02/2026
P02	LAYOUT REVISED	06/02/2026
P01	FIRST ISSUE	26/09/2025
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Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

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Scale: 1:1000 @ A3

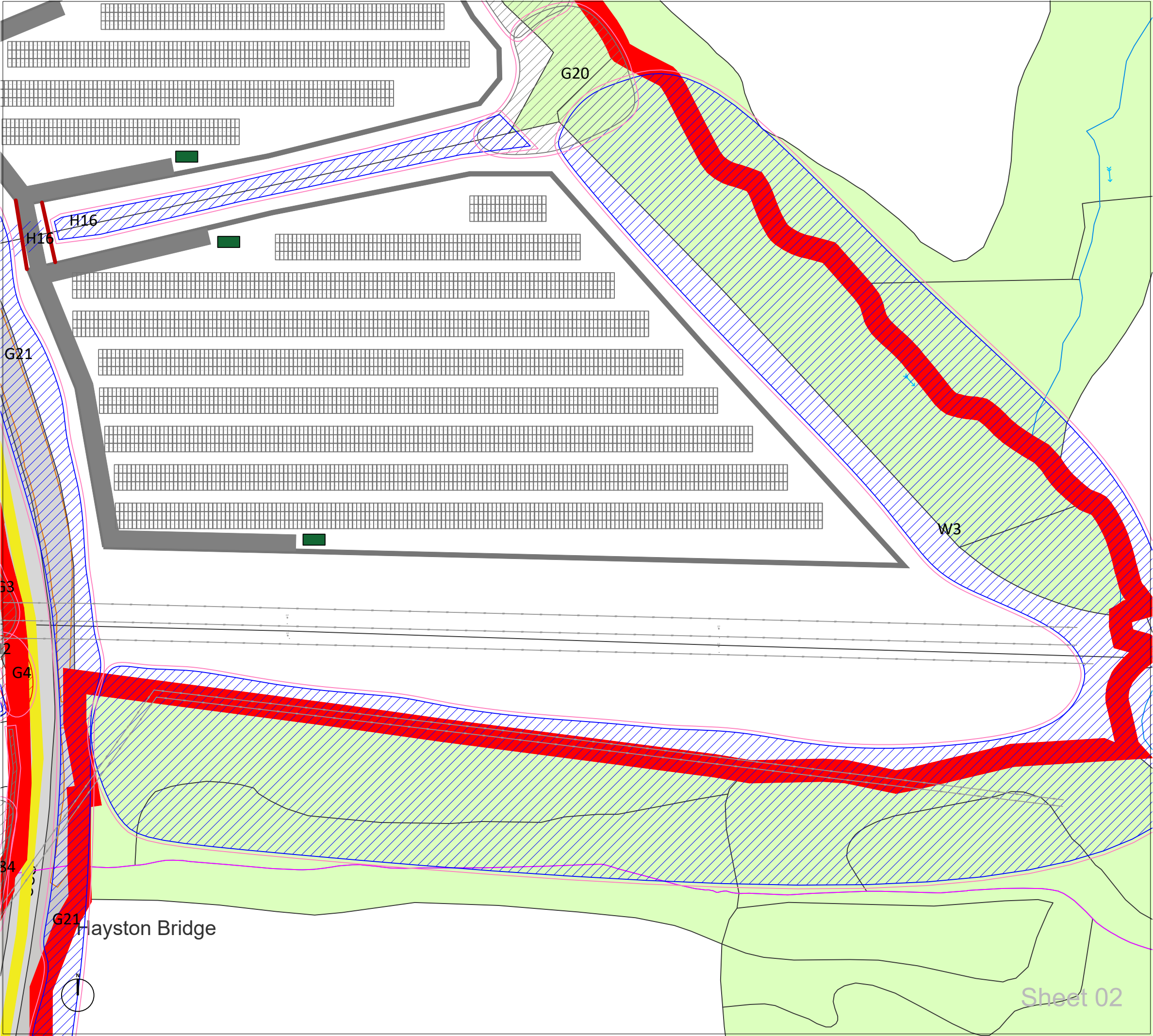
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P03	LAYOUT REVISED	23/02/2026
P02	LAYOUT REVISED	06/02/2026
P01	FIRST ISSUE	26/09/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

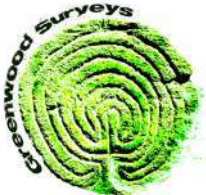
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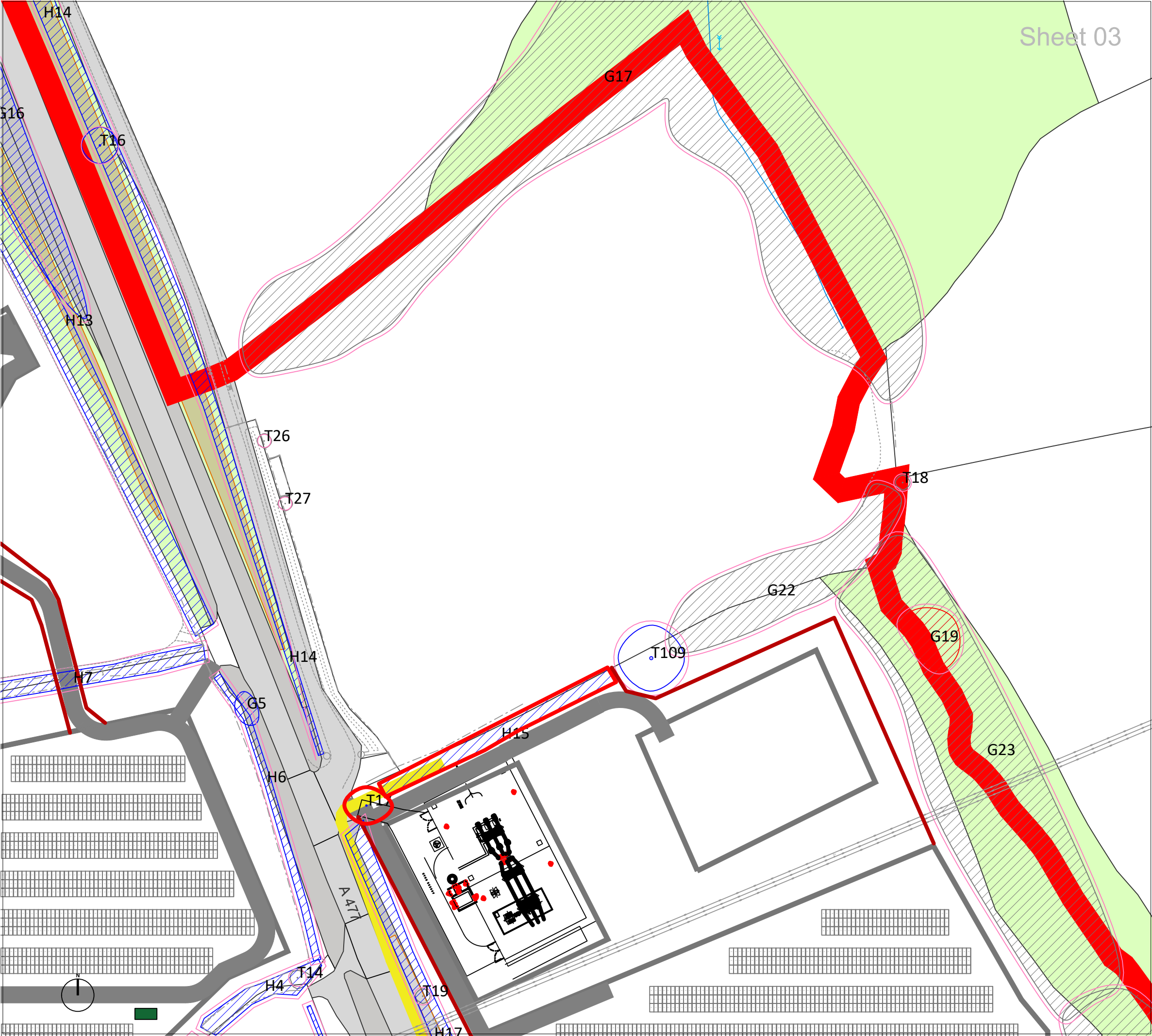
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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

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P03	LAYOUT REVISED	23/02/2026
P02	LAYOUT REVISED	06/02/2026
P01	FIRST ISSUE	26/09/2025
Rev.	Issue Details.	Date.

Client:

Arise Renewable Energy UK Limited

Project:

Great Harmeston Solar and BESS

Drawing Title:

TREE PROTECTION PLAN

Drawing No:

GWS-2529-TPP

Scale:

1:1000 @ A3

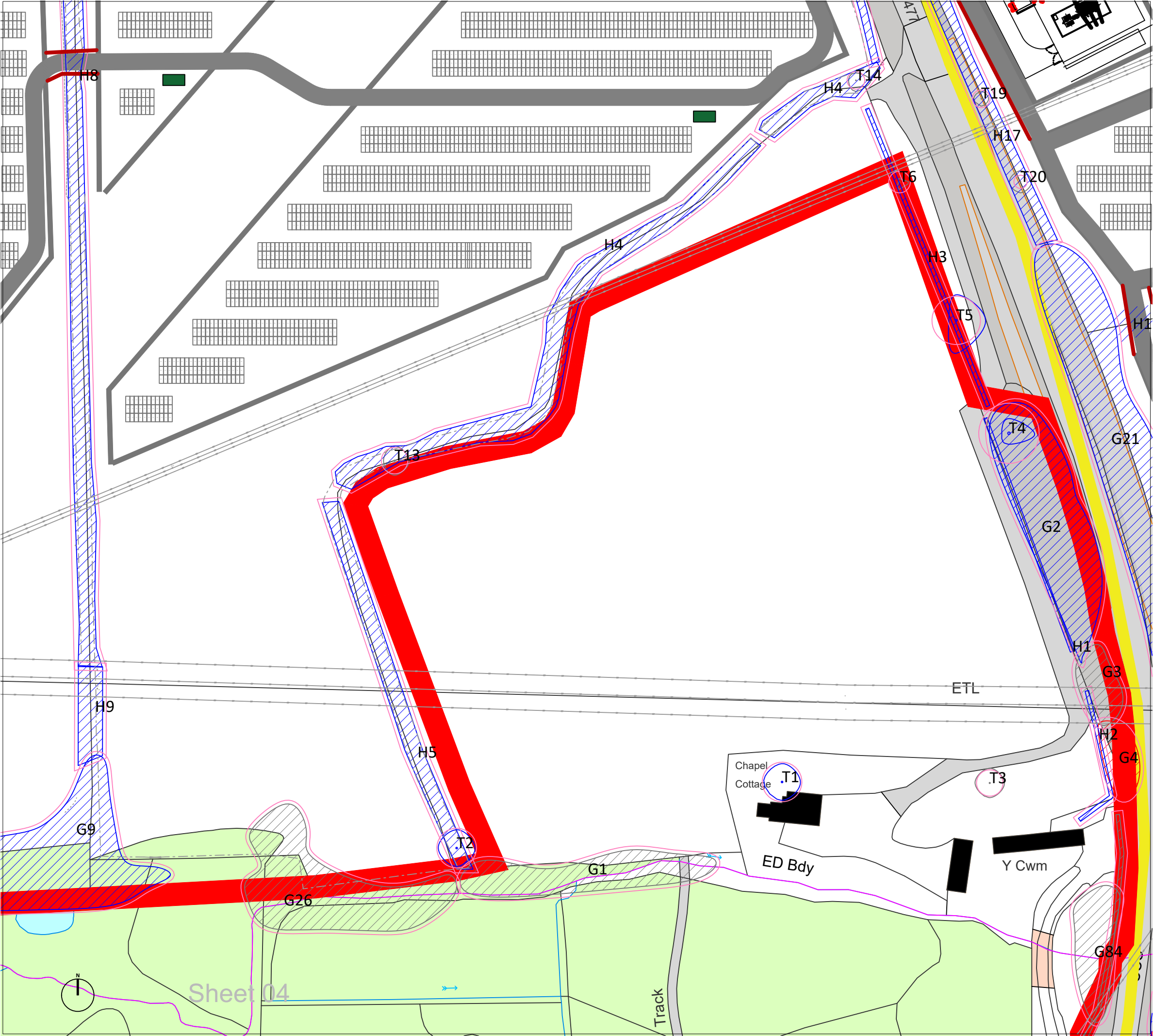
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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

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P03	LAYOUT REVISED	23/02/2026
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P01	FIRST ISSUE	26/09/2025
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Client:
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TREE PROTECTION PLAN

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Scale: 1:1000 @ A3

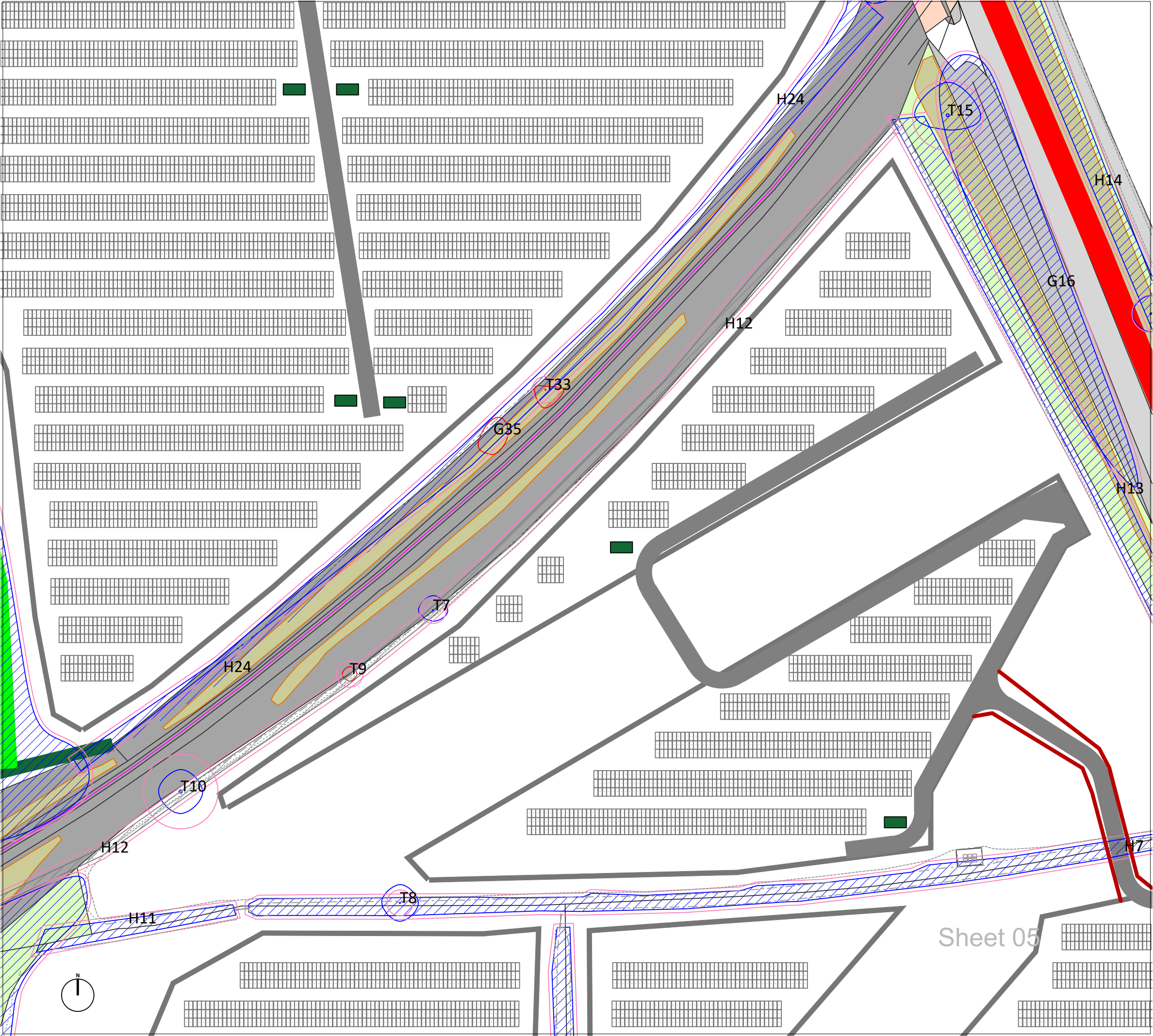
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Sheet 04



LEGEND

- T#

Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
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P03	LAYOUT REVISED	23/02/2026
P02	LAYOUT REVISED	06/02/2026
P01	FIRST ISSUE	26/09/2025
Rev.	Issue Details.	Date.

Client:
Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

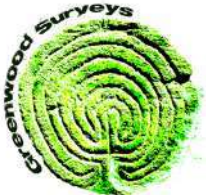
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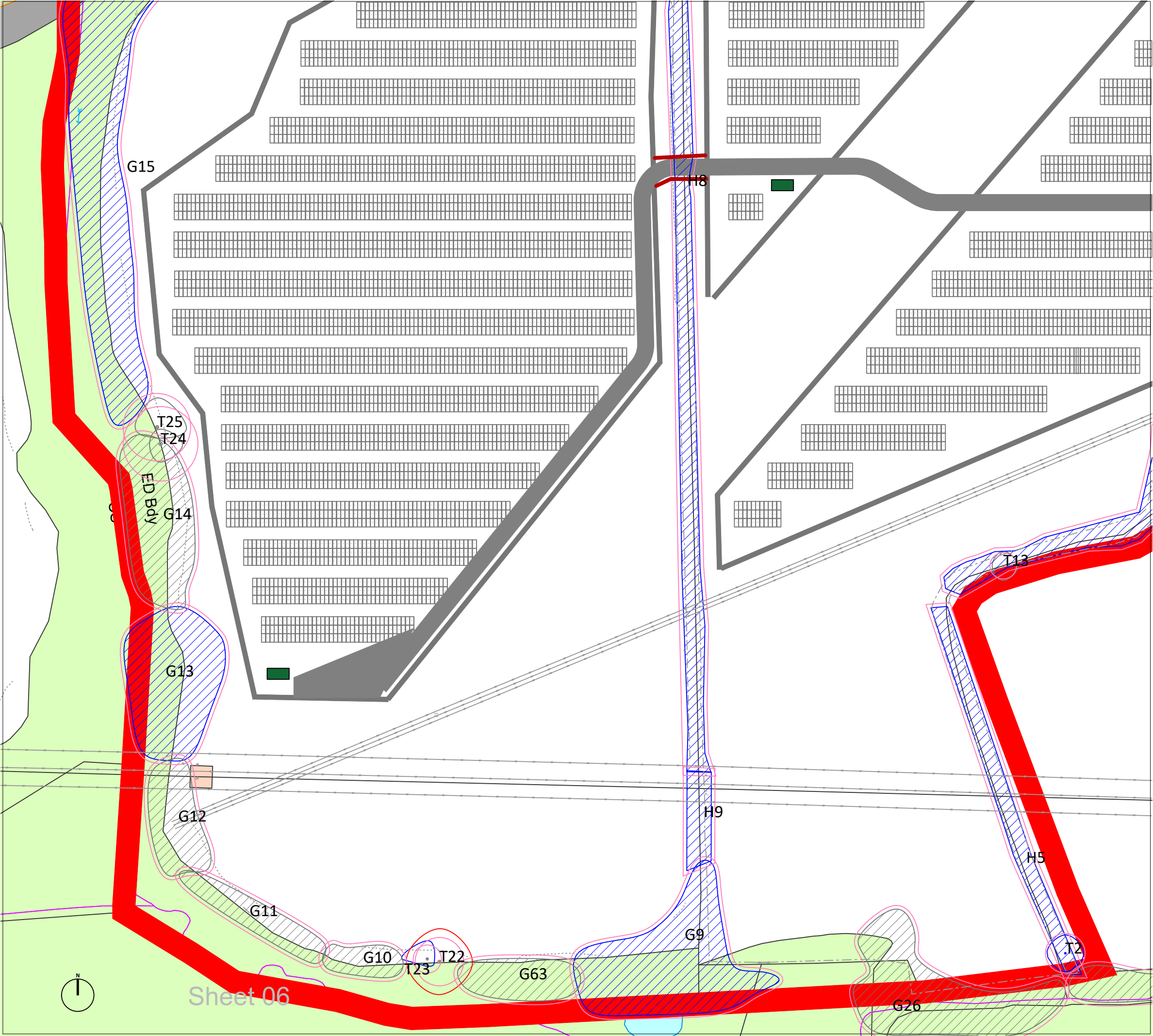
Date: 26/09/2025

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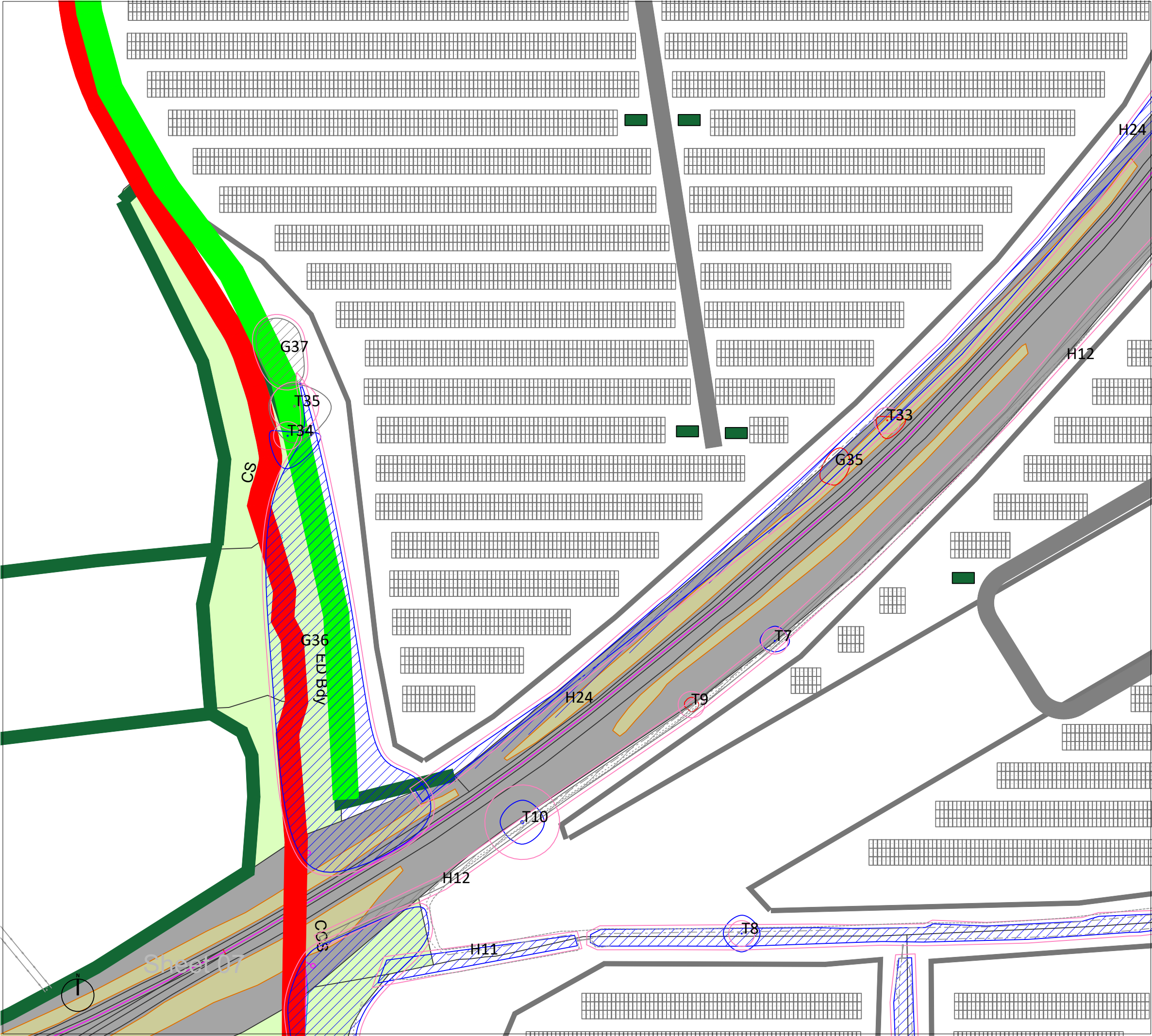
Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing
- Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.
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|------|----------------|------------|
| P03 | LAYOUT REVISED | 23/02/2026 |
| P02 | LAYOUT REVISED | 06/02/2026 |
| P01 | FIRST ISSUE | 26/09/2025 |
| Rev. | Issue Details. | Date. |
- Client:
Arise Renewable Energy UK Limited
- Project:
Great Harmeston Solar and BESS
- Drawing Title:
TREE PROTECTION PLAN
- Drawing No: GWS-2529-TPP
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LEGEND

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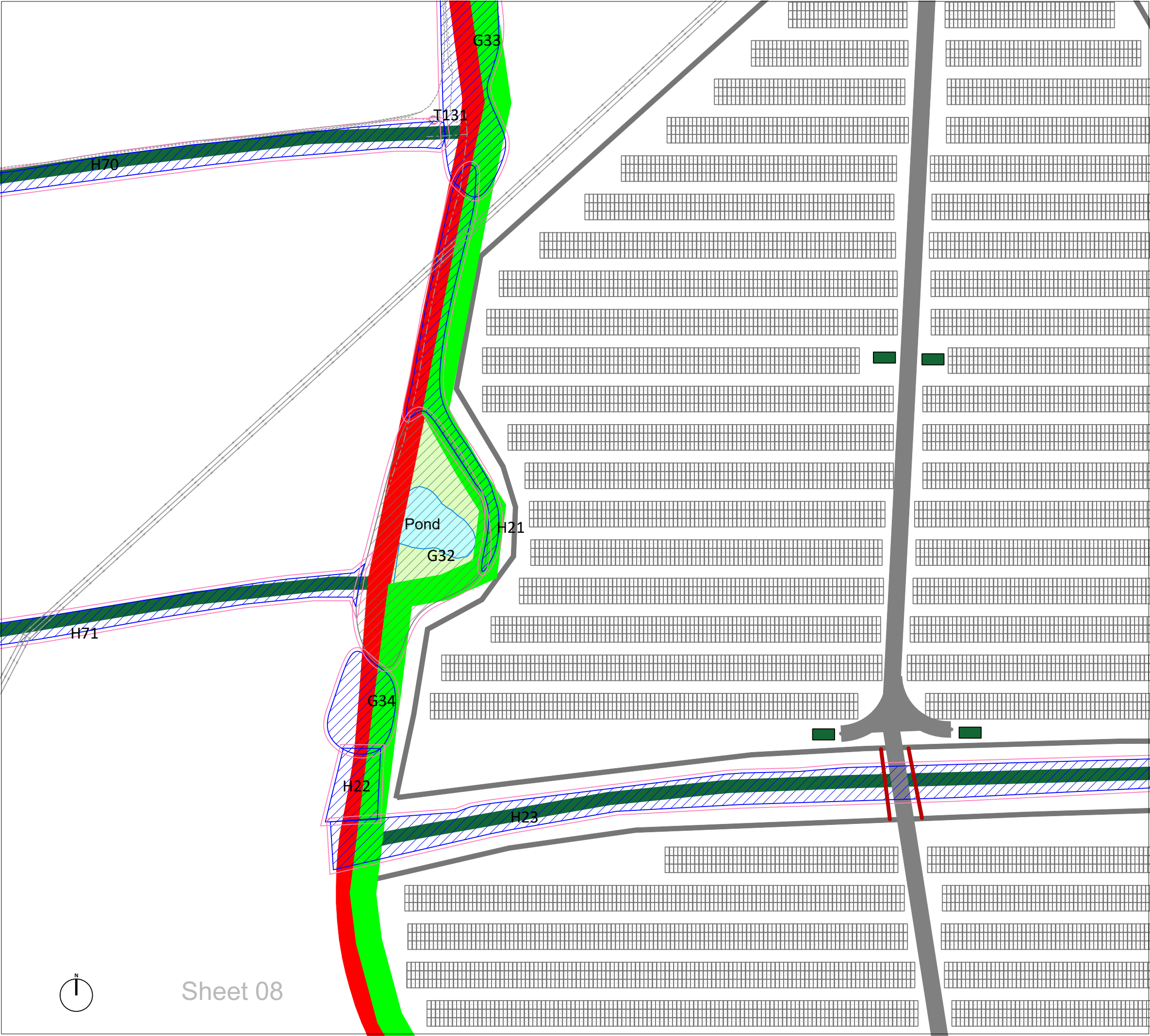
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 - No excavation or installation of services; unless approved by the Local Planning Authority.
- | | | |
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| P03 | LAYOUT REVISED | 23/02/2026 |
| P02 | LAYOUT REVISED | 06/02/2026 |
| P01 | FIRST ISSUE | 26/09/2025 |
| Rev. | Issue Details. | Date. |
- Client:
Arise Renewable Energy UK Limited
- Project:
Great Harmeston Solar and BESS
- Drawing Title:
TREE PROTECTION PLAN
- Drawing No: GWS-2529-TPP
- Scale: 1:1000 @ A3
- Date: 26/09/2025
- Greenwood Surveys, 26 Lansdown Place,
Cheltenham, Gloucestershire GL50 2HX
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- T#

Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
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- Category C
Trees of low quality with an estimated remaining life expectancy of at least 10 years. Groups/hedges/woodland are denoted with hatching
- Category U
Trees of very low quality with an estimated remaining life expectancy of less than 10 years. Groups/hedges/woodland are denoted with hatching
- Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012
- Buffer zone for ancient and veteran trees as described in Natural England standing advice.
- Trees to be removed
- Tree Protection Fencing
- No-dig surfacing

Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.

- Inside the barriers it is also essential that the following prohibitions are complied with:
- No excavations, including by hand; unless approved by the Local Planning Authority;
 - No storage of machinery;
 - No storage or handling of building materials, fuel, chemicals or spoil;
 - No fires;
 - No vehicular access;
 - No pedestrian access; unless approved by the Local Planning Authority;
 - No alteration, increase or decrease, to existing ground levels; unless approved by the Local Planning Authority;
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Client:
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Project:
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Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

Scale: 1:1000 @ A3

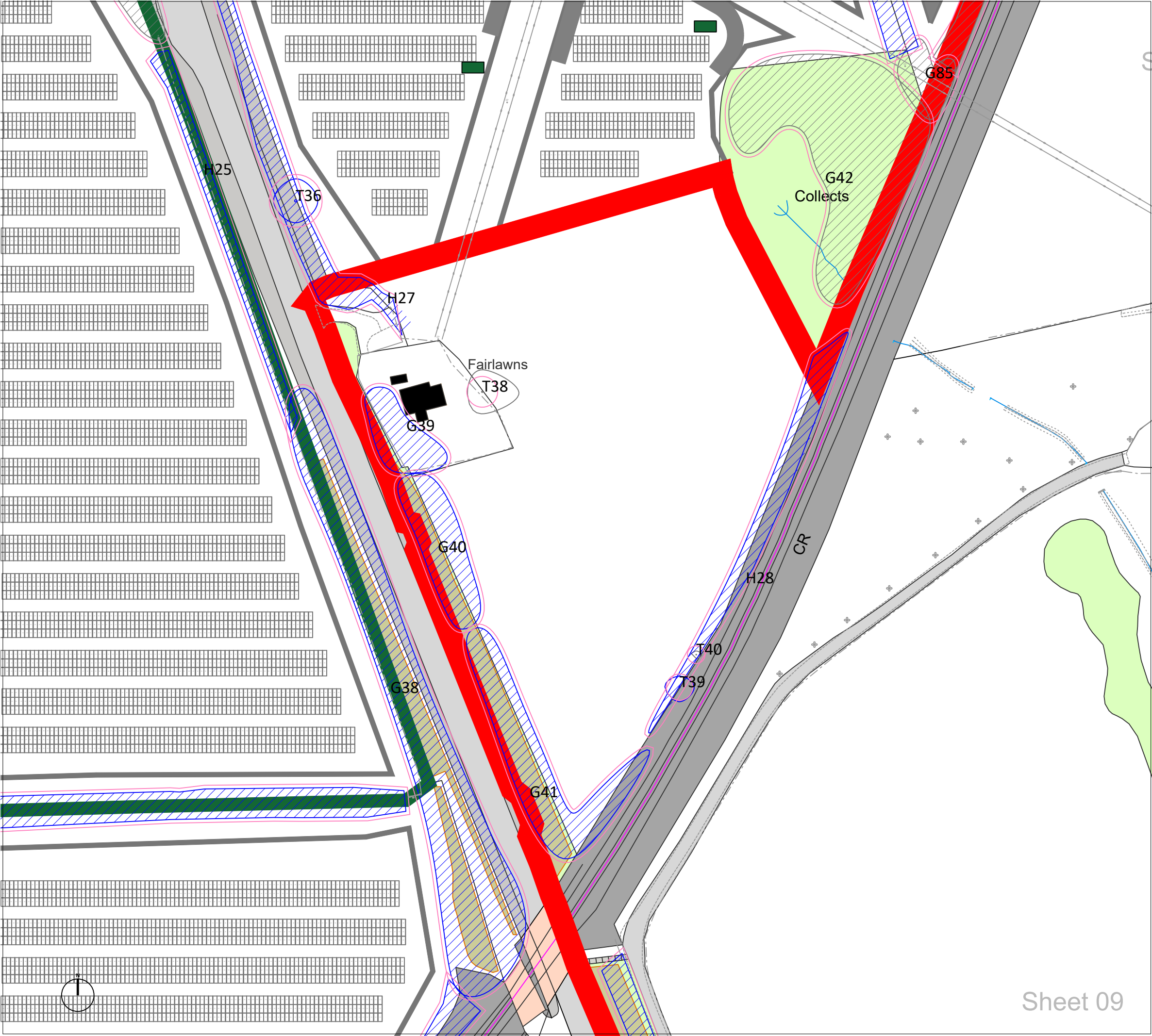
Date: 26/09/2025

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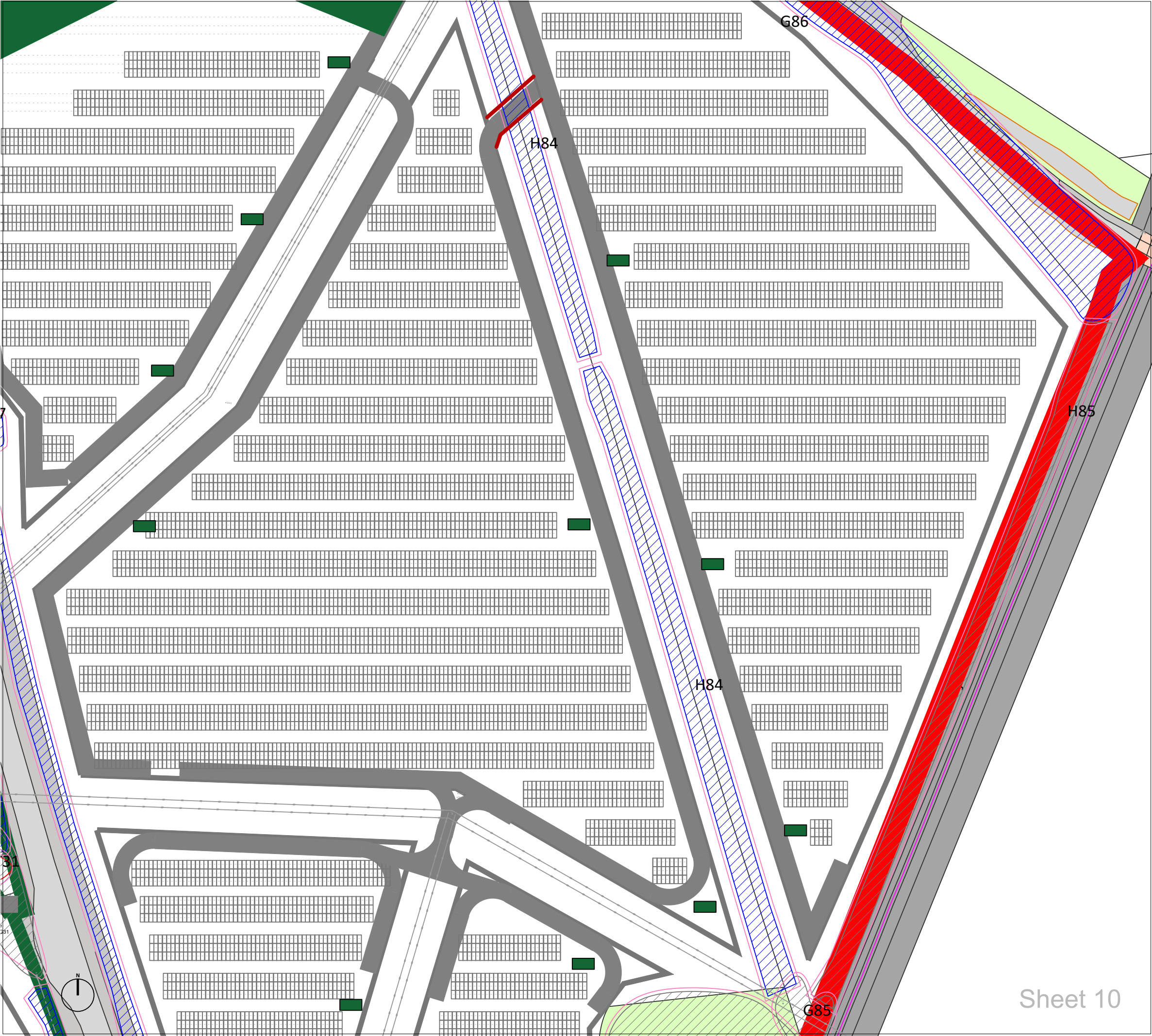
Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing
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Trees of very low quality with an estimated remaining life expectancy of less than 10 years. Groups/hedges/woodland are denoted with hatching

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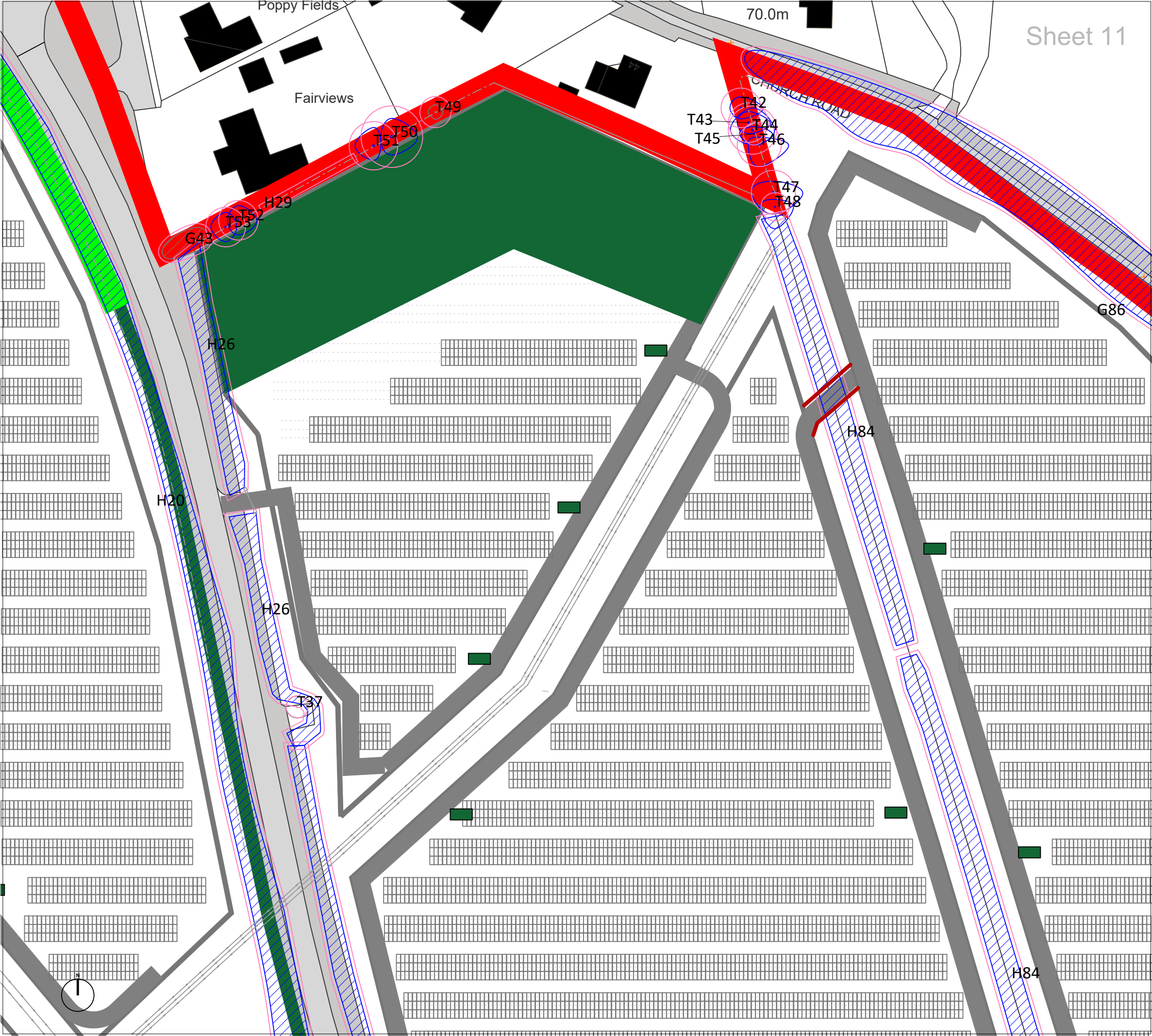
Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

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LEGEND

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Trees of very low quality with an estimated remaining life expectancy of less than 10 years. Groups/hedges/woodland are denoted with hatching

Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012

Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing

Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.

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P02

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Arise Renewable Energy UK Limited

Project:

Great Harmeston Solar and BESS

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Drawing No:

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Date:

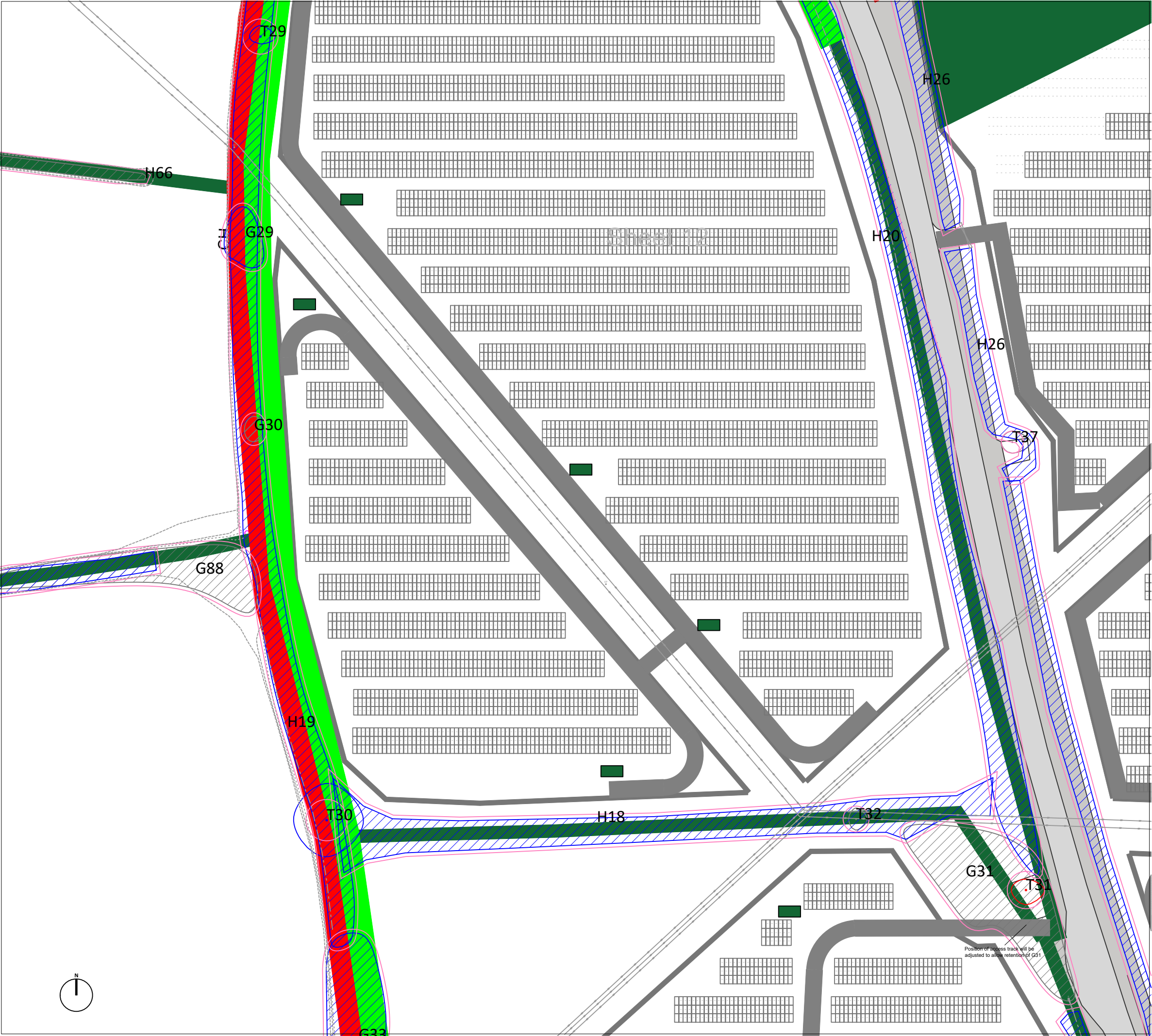
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Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012

Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

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Arise Renewable Energy UK Limited

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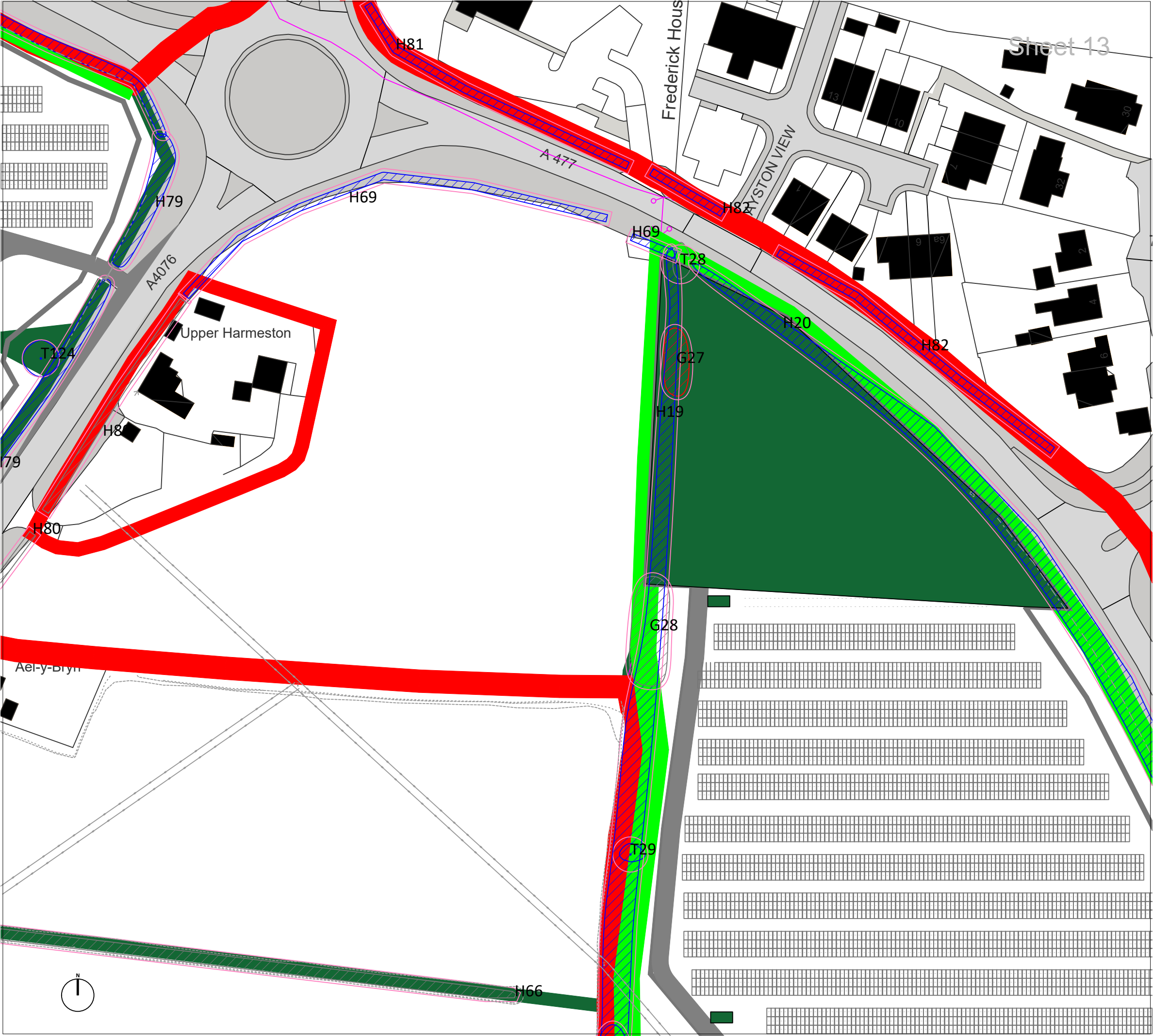
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- T# Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
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- Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012
- Buffer zone for ancient and veteran trees as described in Natural England standing advice.
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Drawing Title:
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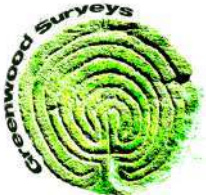
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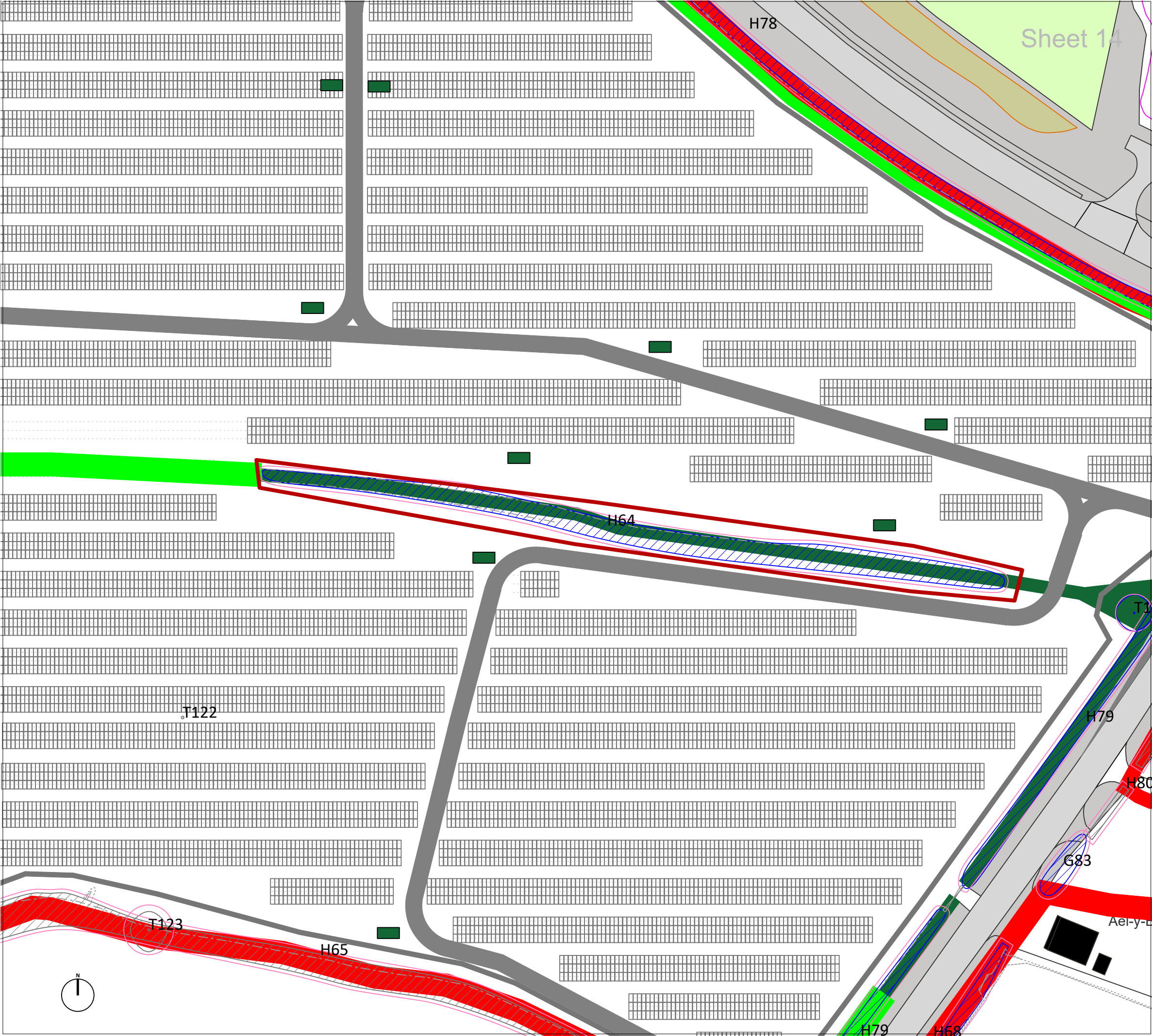
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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

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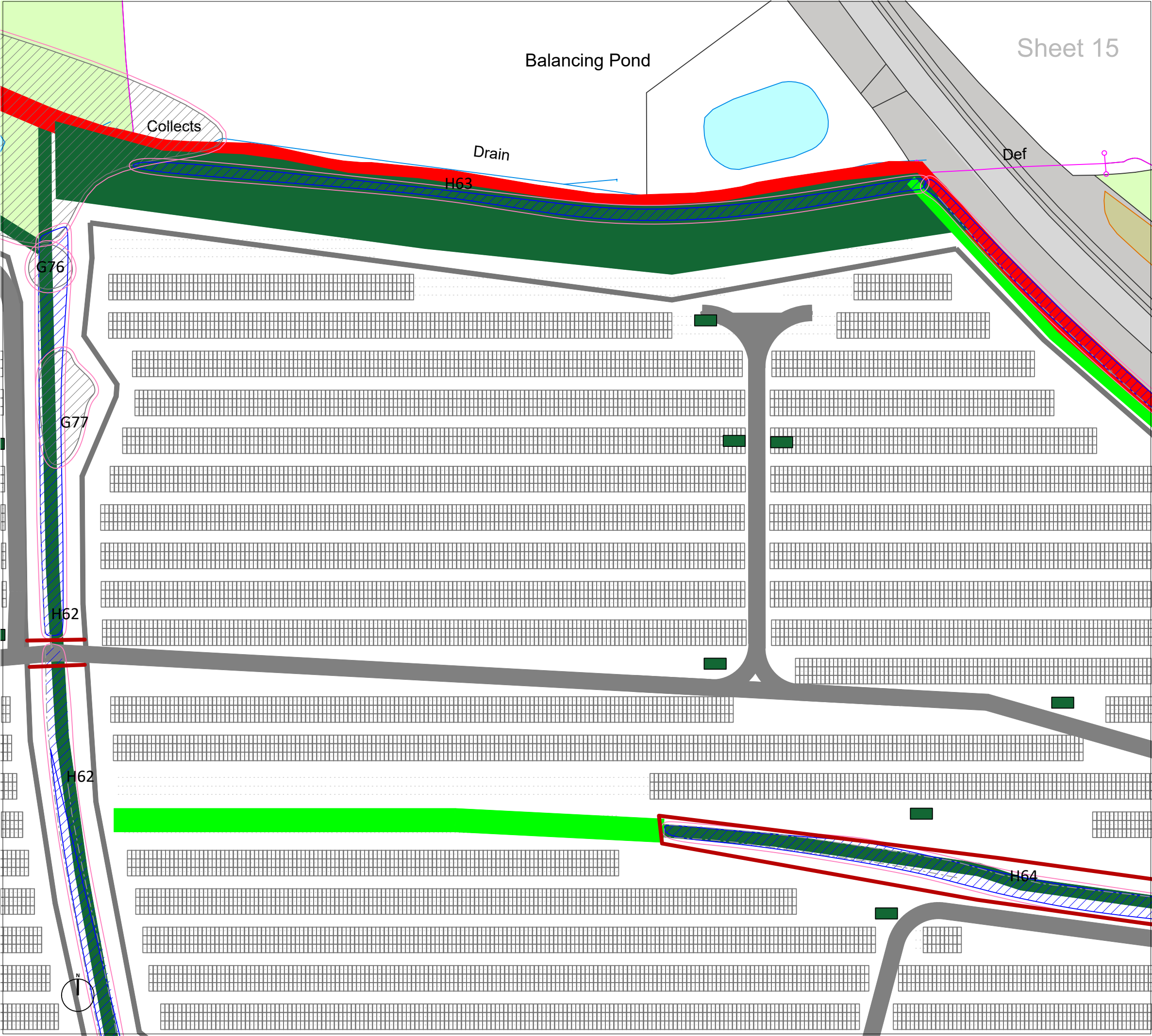
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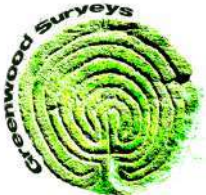
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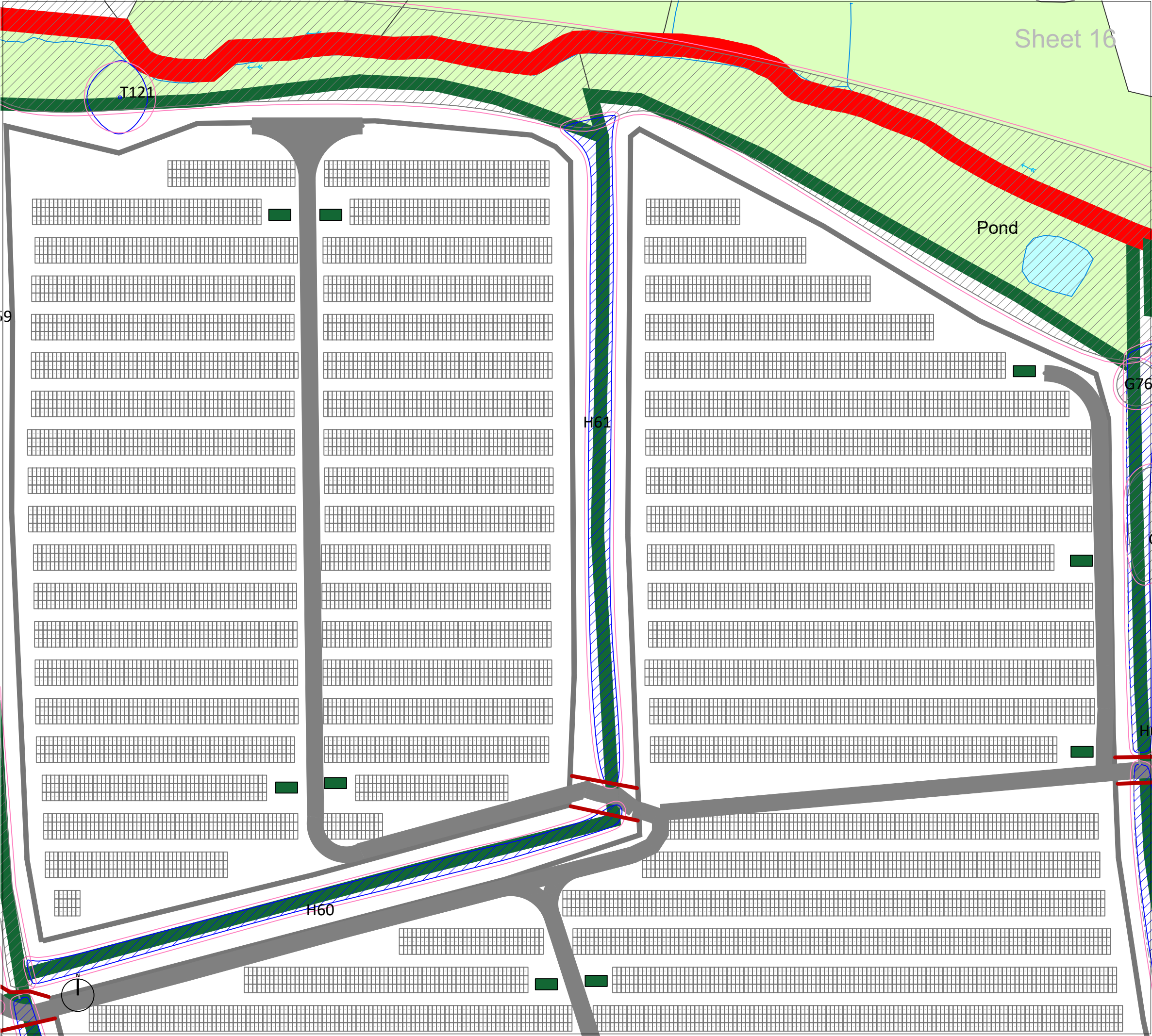
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Sheet 16

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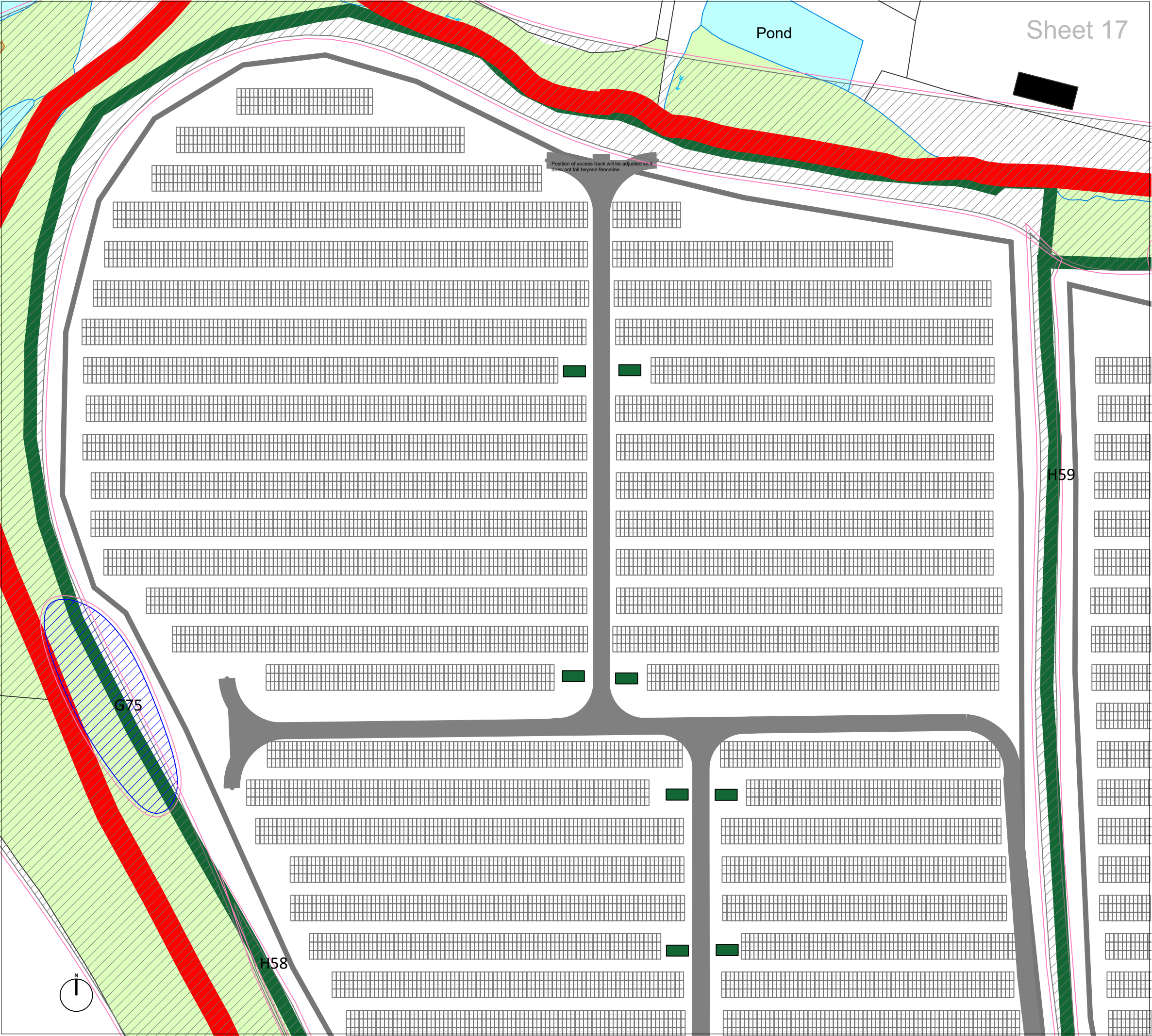
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LEGEND

- T#

Trees with estimated locations, not based on topographical survey. Their positions and extent of RPAs must be confirmed on site before works commence
- Category A

Trees of high quality with an estimated remaining life expectancy of at least 40 years. Groups/hedges/woodland are denoted with hatching

Category B

Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Groups/hedges/woodland are denoted with hatching

Category C

Trees of low quality with an estimated remaining life expectancy of at least 10 years. Groups/hedges/woodland are denoted with hatching

Category U

Trees of very low quality with an estimated remaining life expectancy of less than 10 years. Groups/hedges/woodland are denoted with hatching

Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012

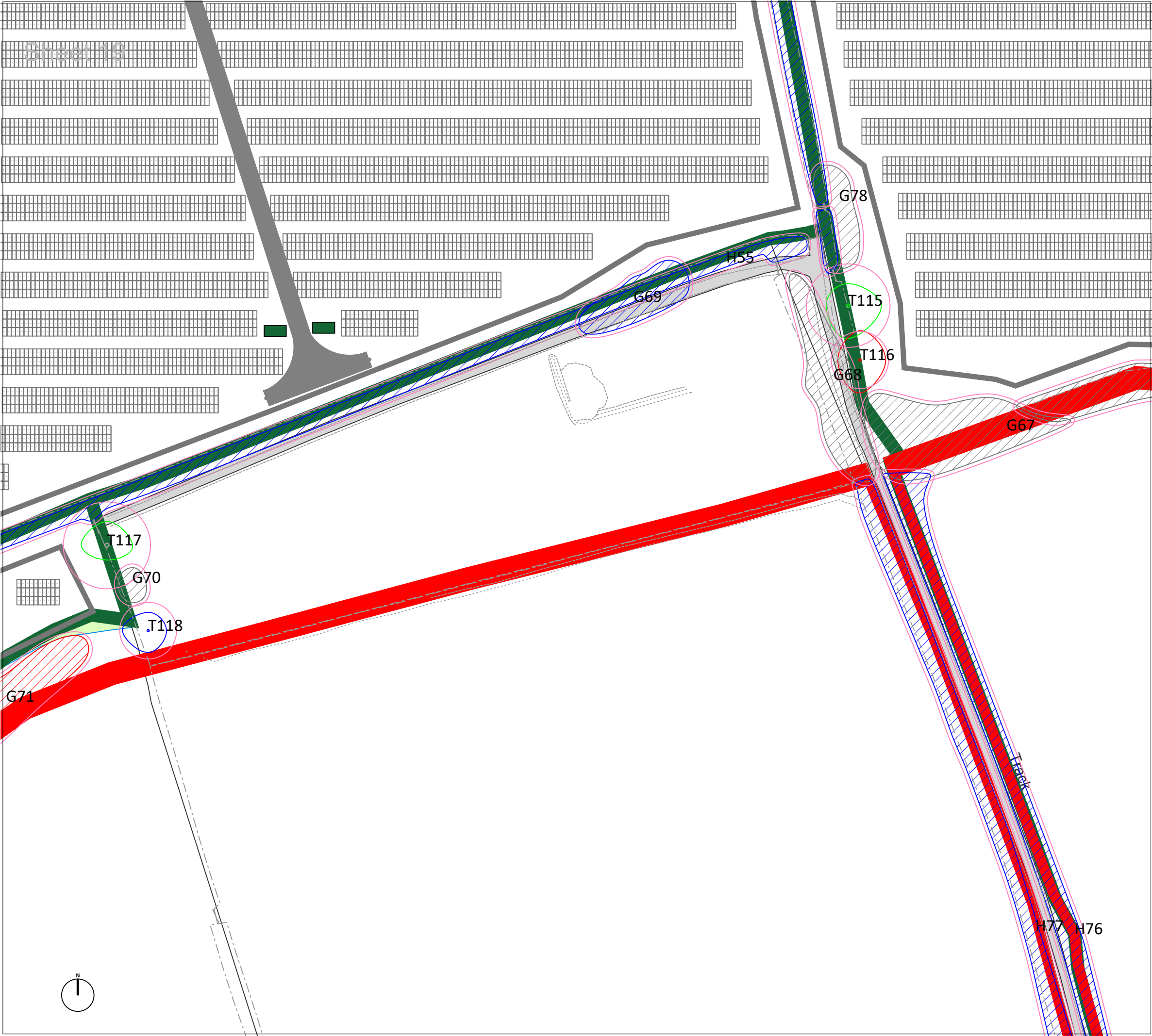
Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing
- Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.
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 - No pedestrian access; unless approved by the Local Planning Authority;
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| P03 | LAYOUT REVISED | 23/02/2026 |
| P02 | LAYOUT REVISED | 06/02/2026 |
| P01 | FIRST ISSUE | 26/09/2025 |
| Rev. | Issue Details. | Date. |
- Client:
Arise Renewable Energy UK Limited
- Project:
Great Harmeston Solar and BESS
- Drawing Title:
TREE PROTECTION PLAN
- Drawing No: GWS-2529-TPP
- Scale: 1:1000 @ A3
- Date: 26/09/2025
- Greenwood Surveys, 26 Lansdown Place,
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- Sheet 18
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Sheet 19

LEGEND

- T#

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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

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- Project:
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Recommended 'Root Protection Area' (RPA) of trees/hedges considered desirable for retention calculated using the method set out in section 4.6 of BS5837:2012

Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing

Tree protection barriers should be positioned in accordance with the adjacent tree protection plan, and be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees. It is essential that the barriers are installed prior to any construction taking place, be maintained during construction, and only removed once all construction has been completed and associated equipment and materials have been removed from site.

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Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

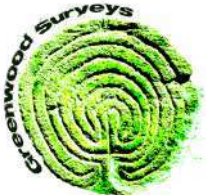
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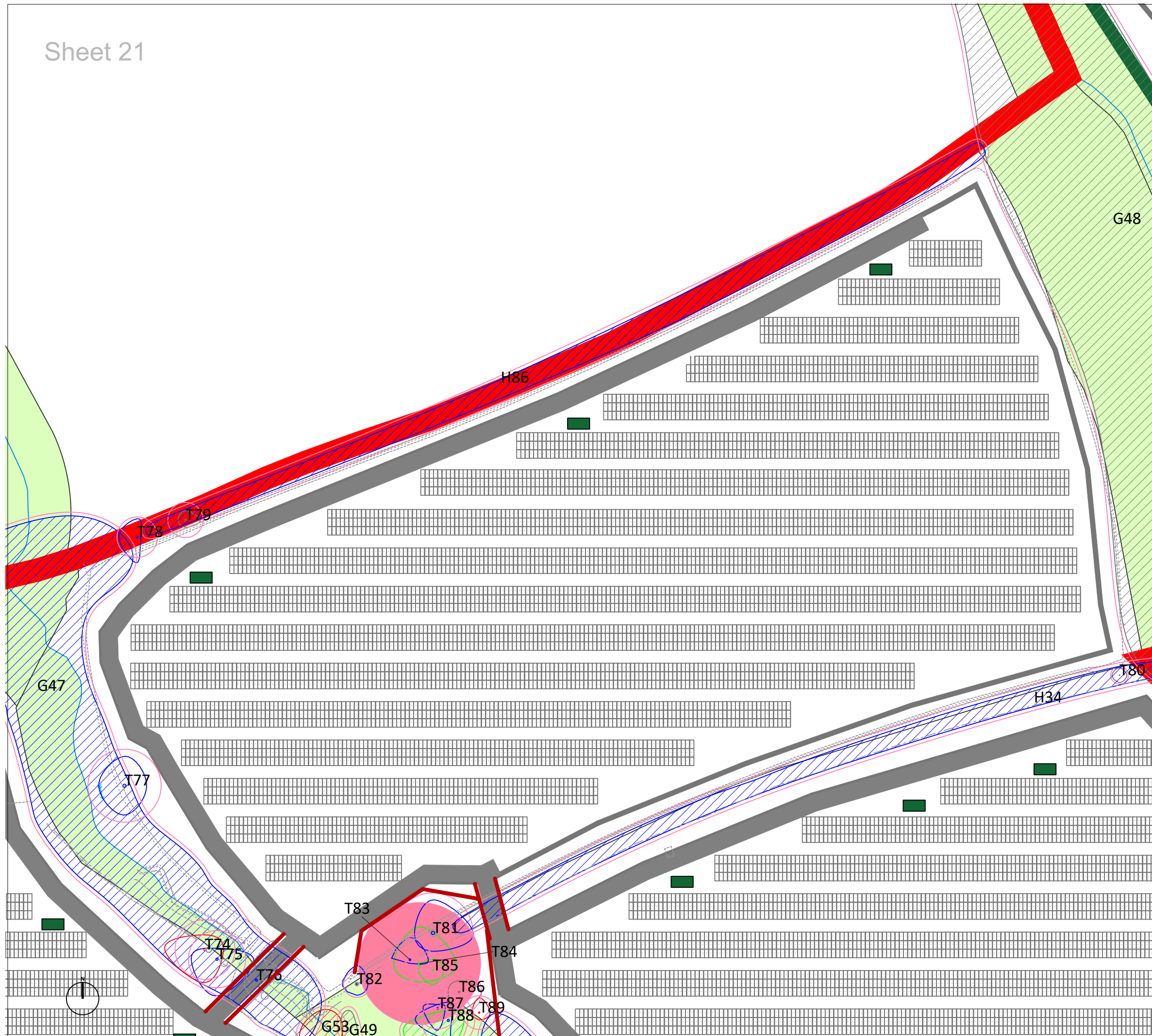
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|  | Trees to be removed |
|  | Tree Protection Fencing |
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Client: **Arise Renewable Energy UK Limited**

Project:
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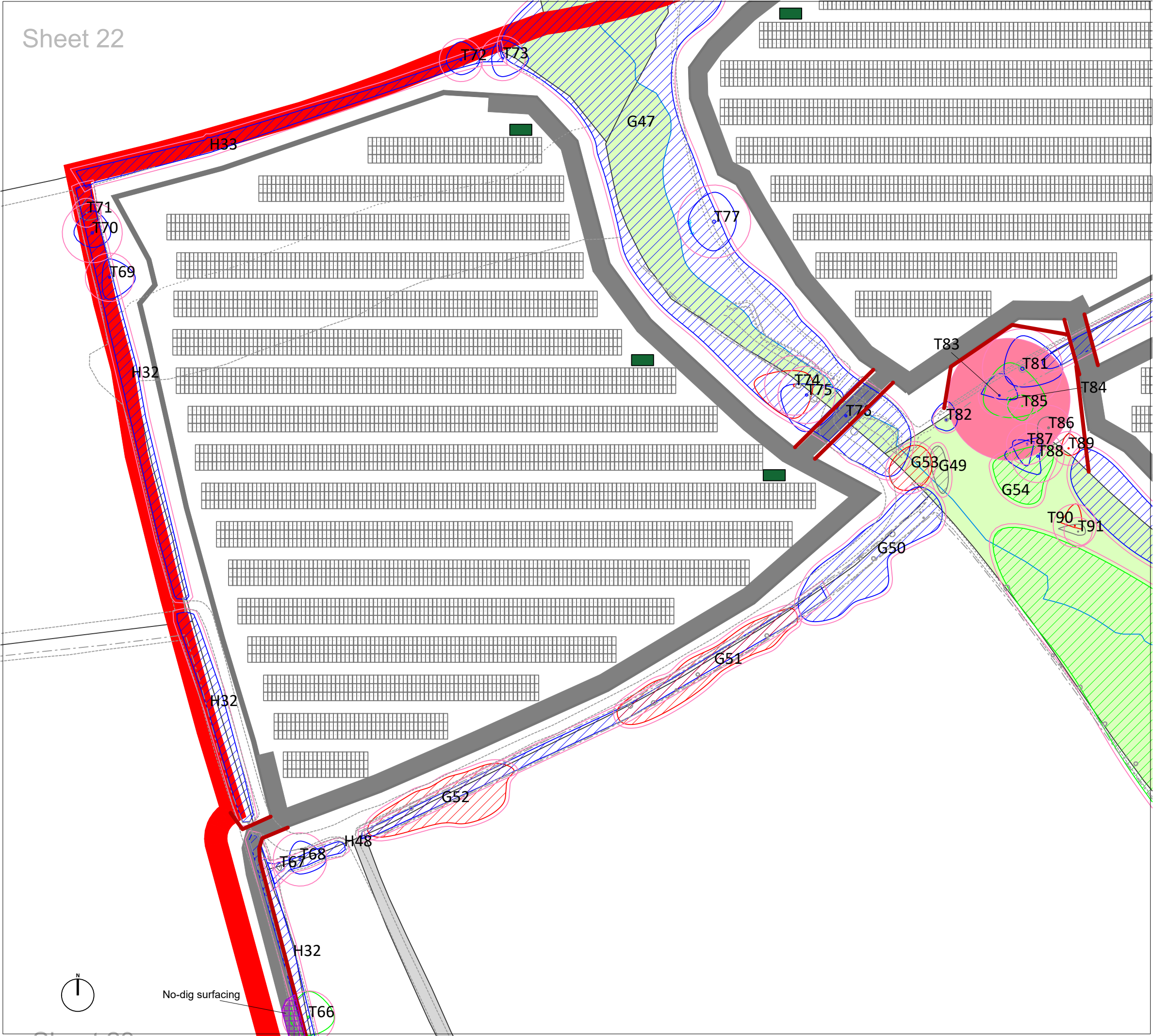
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- Trees to be removed
- Tree Protection Fencing
- No-dig surfacing

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No-dig surfacing

No-dig surfacing

Track

Deemshill

Track

Spring



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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing

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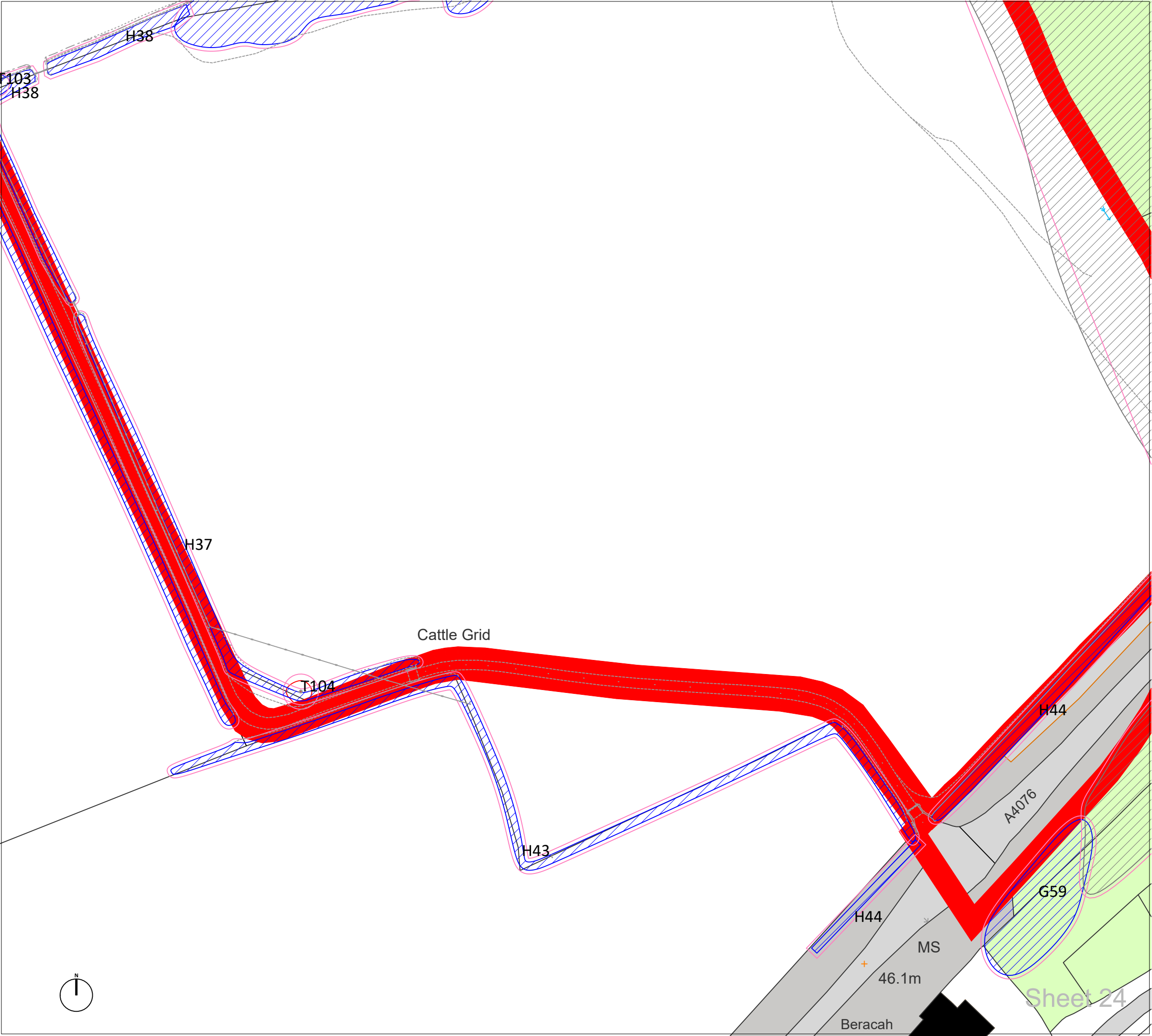
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Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

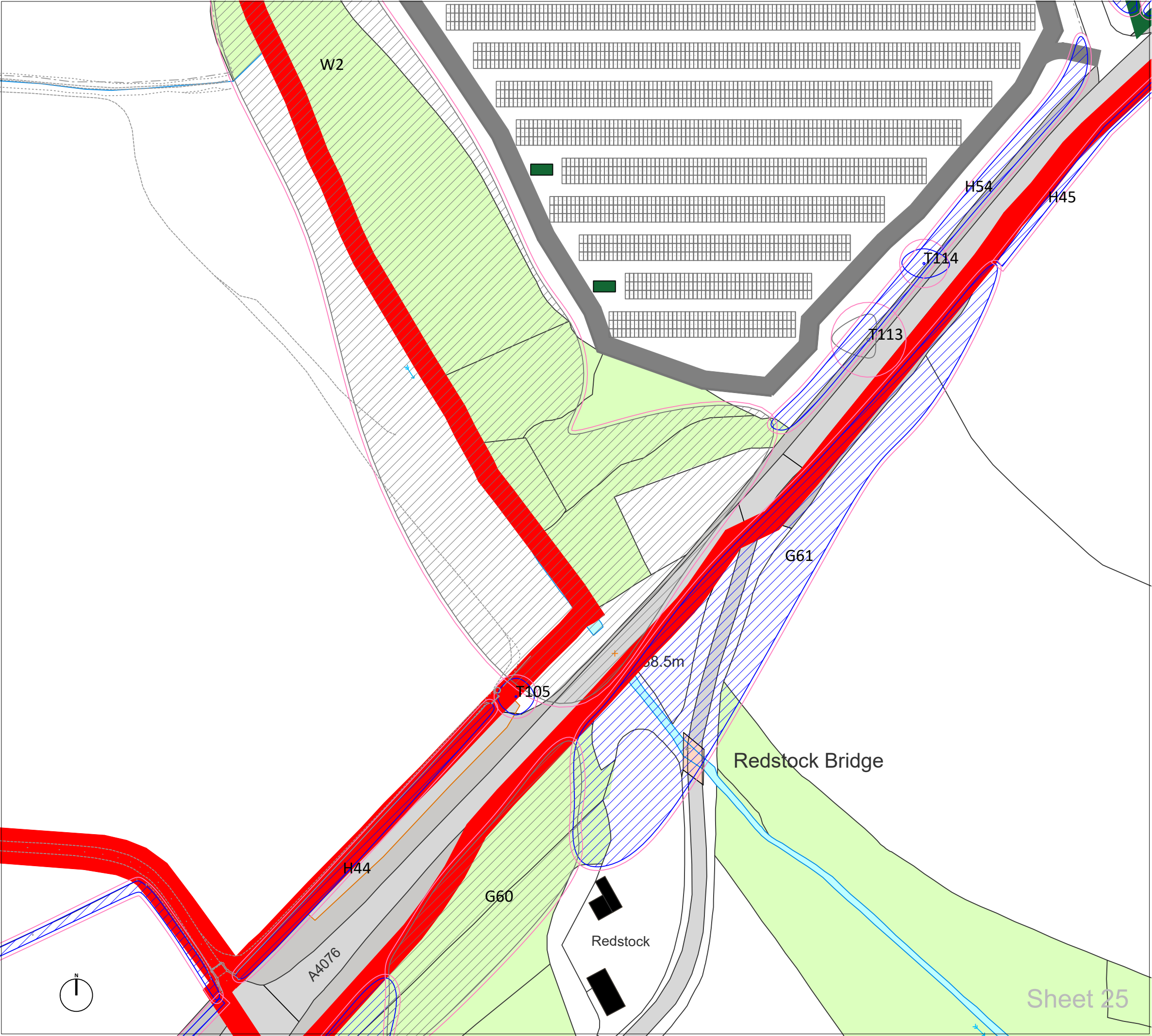
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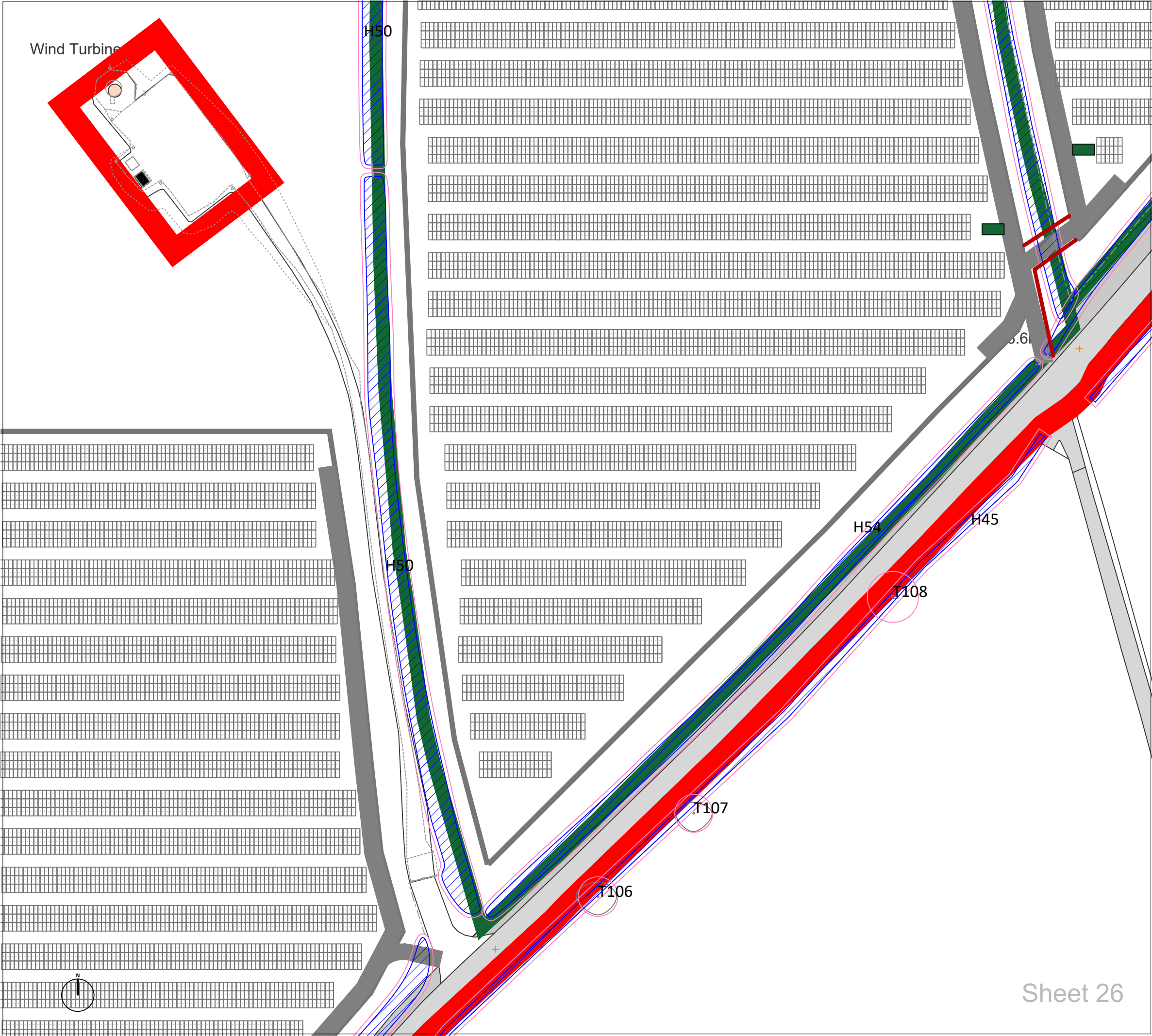
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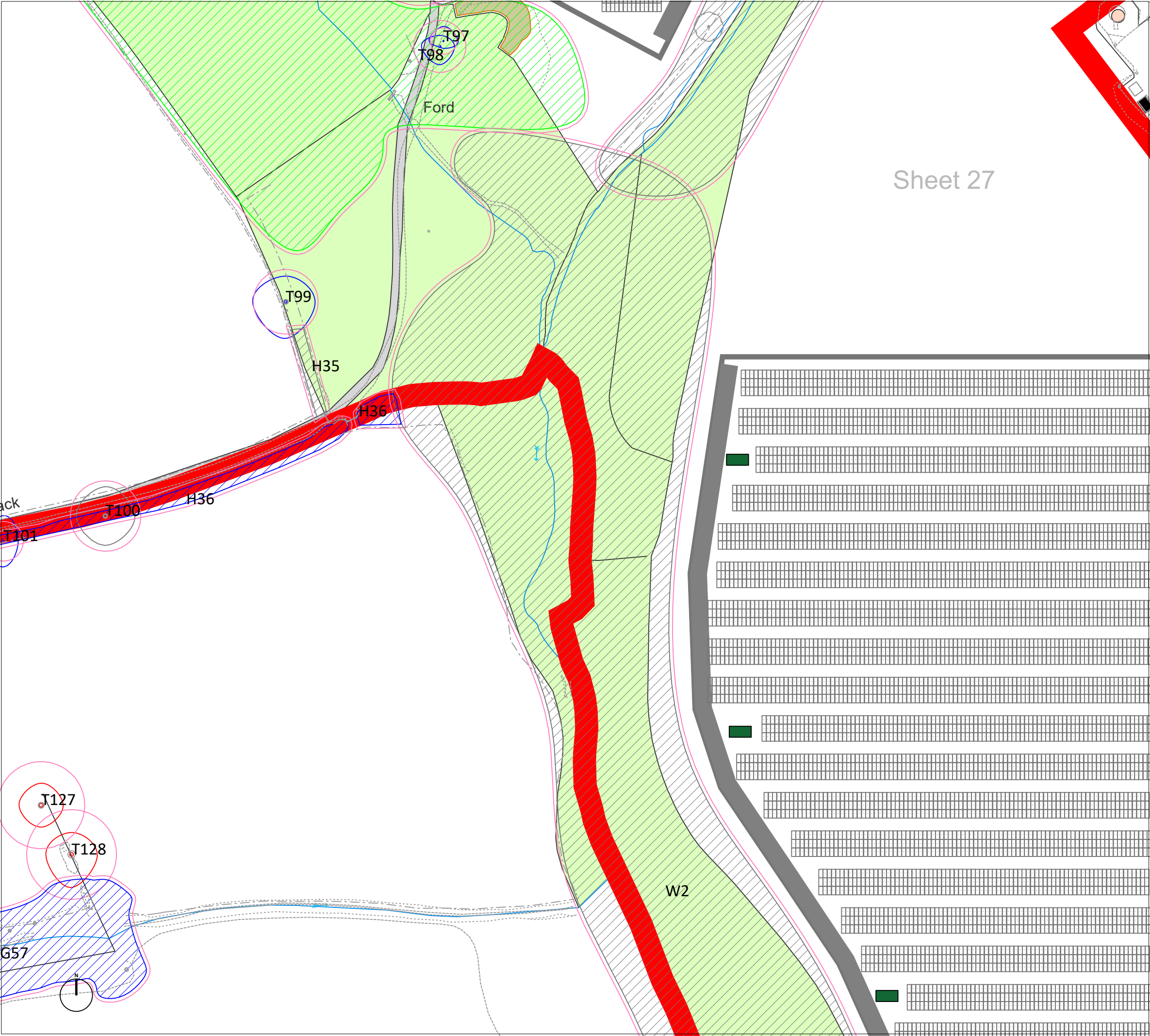
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Sheet 27

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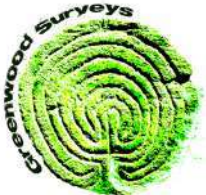
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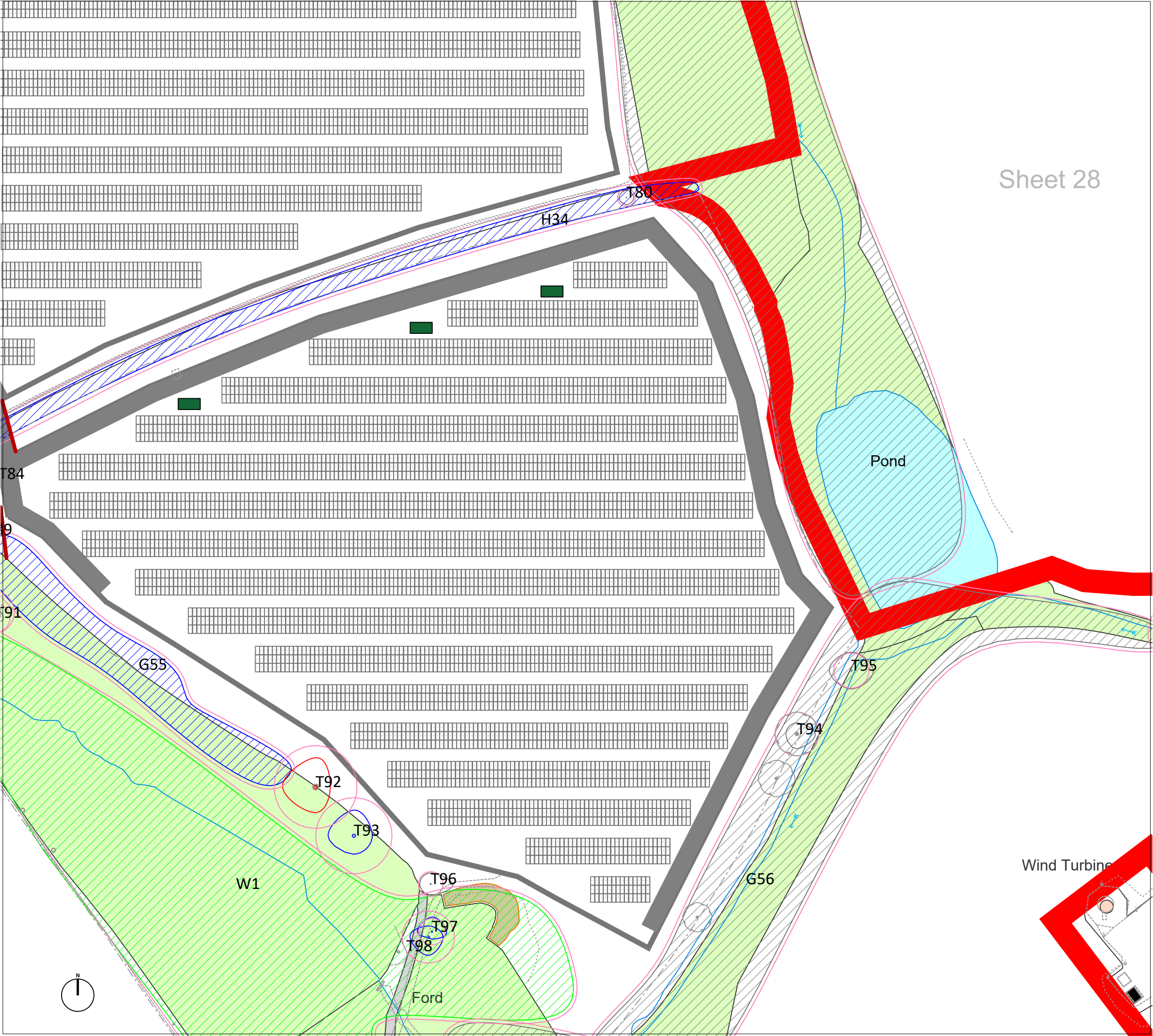
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Arise Renewable Energy UK Limited

Project:
Great Harmeston Solar and BESS

Drawing Title:
TREE PROTECTION PLAN

Drawing No: GWS-2529-TPP

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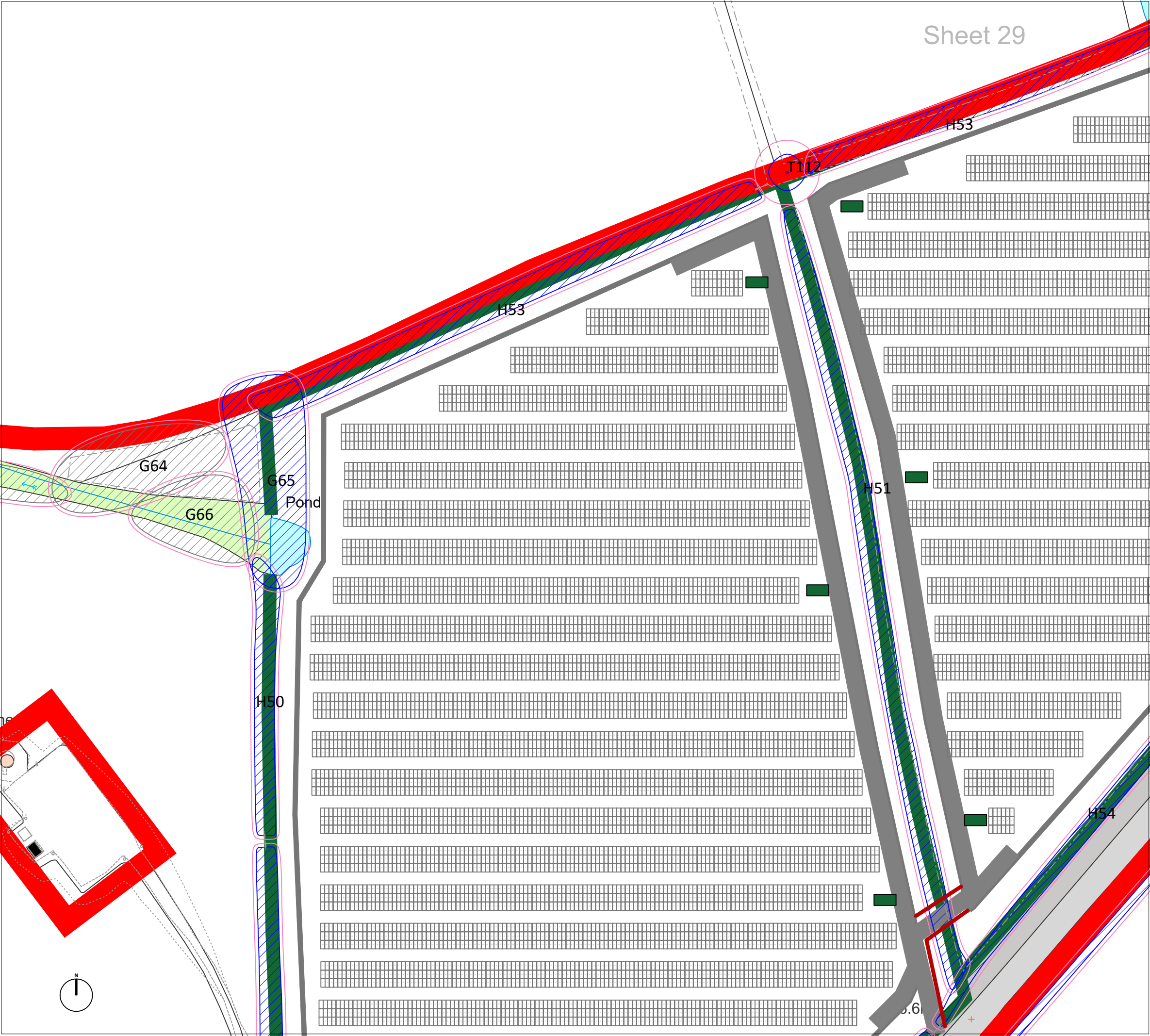
Date: 26/09/2025

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Sheet 29

LEGEND

- T#

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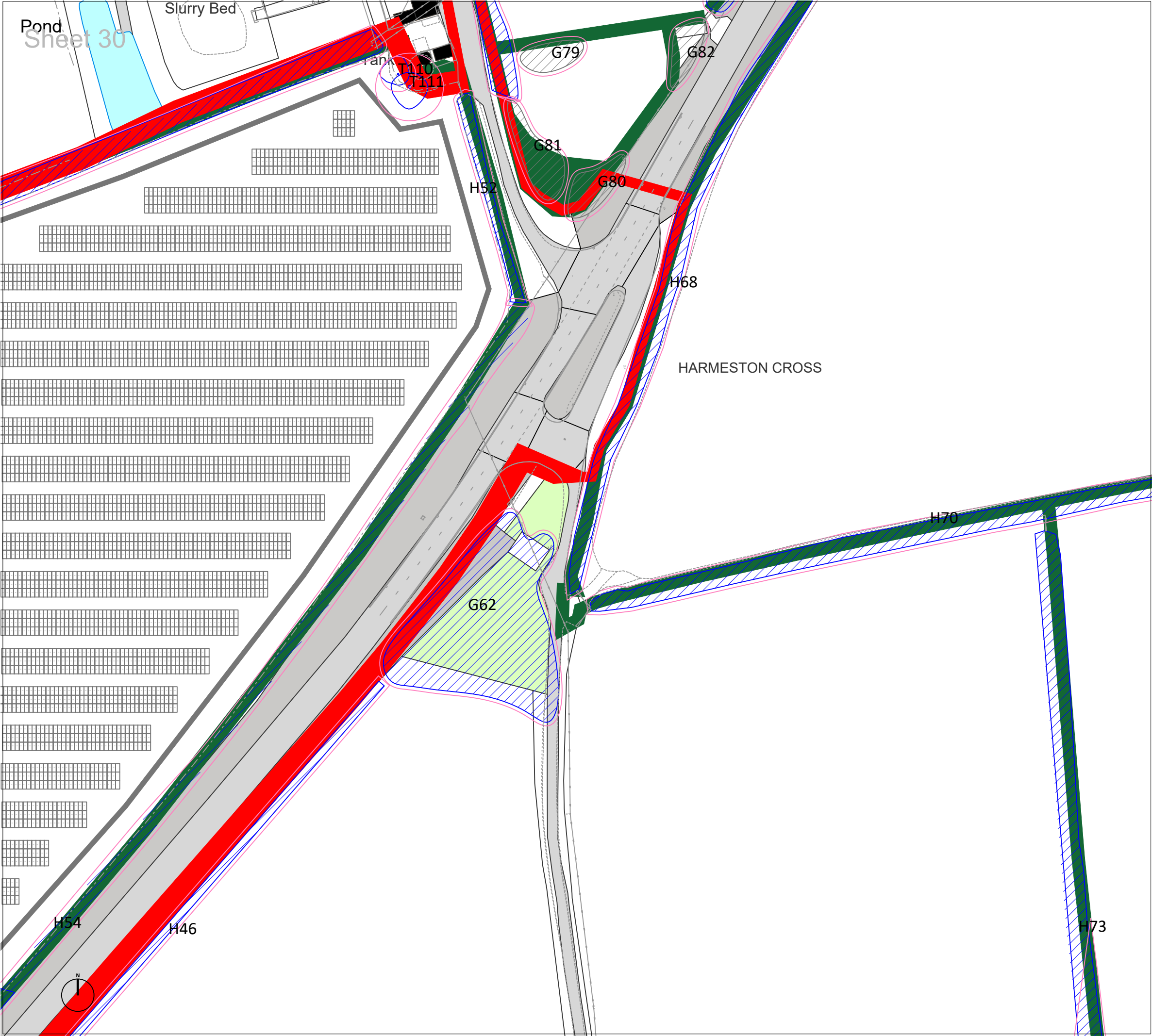
Buffer zone for ancient and veteran trees as described in Natural England standing advice.

Trees to be removed

Tree Protection Fencing

No-dig surfacing
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| P02 | LAYOUT REVISED | 06/02/2026 |
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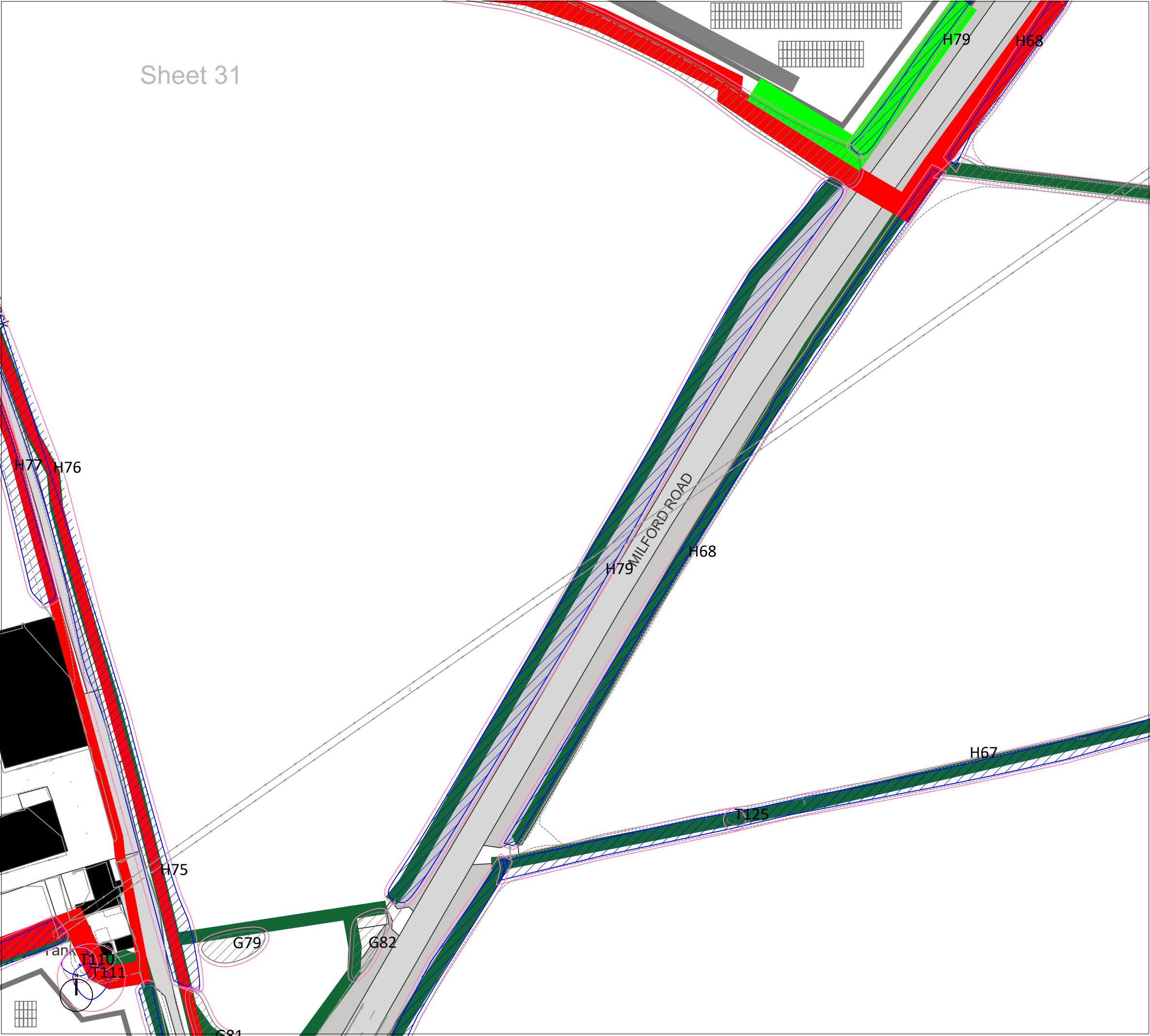
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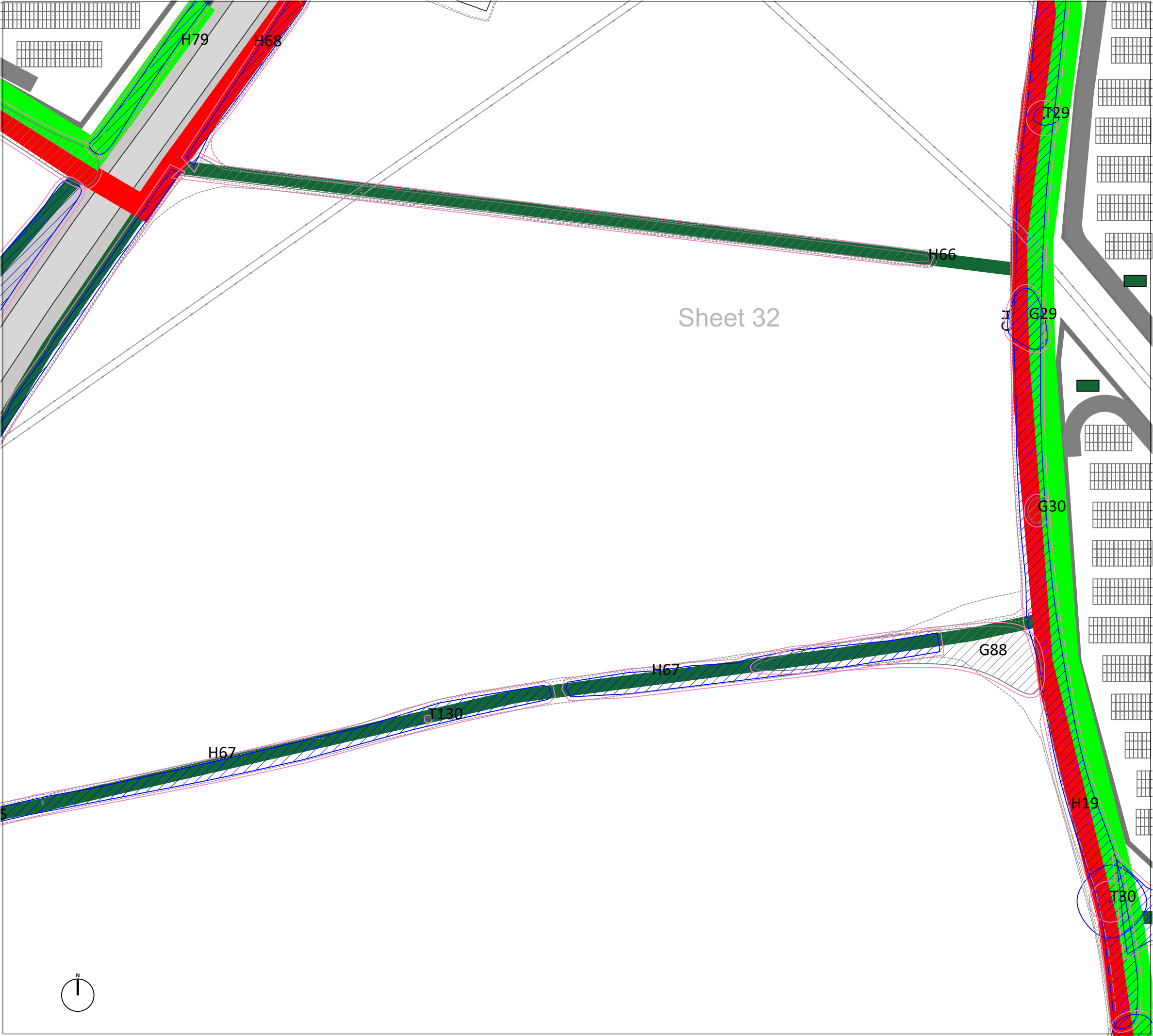
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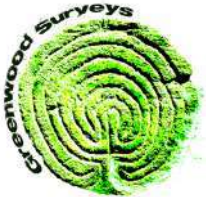
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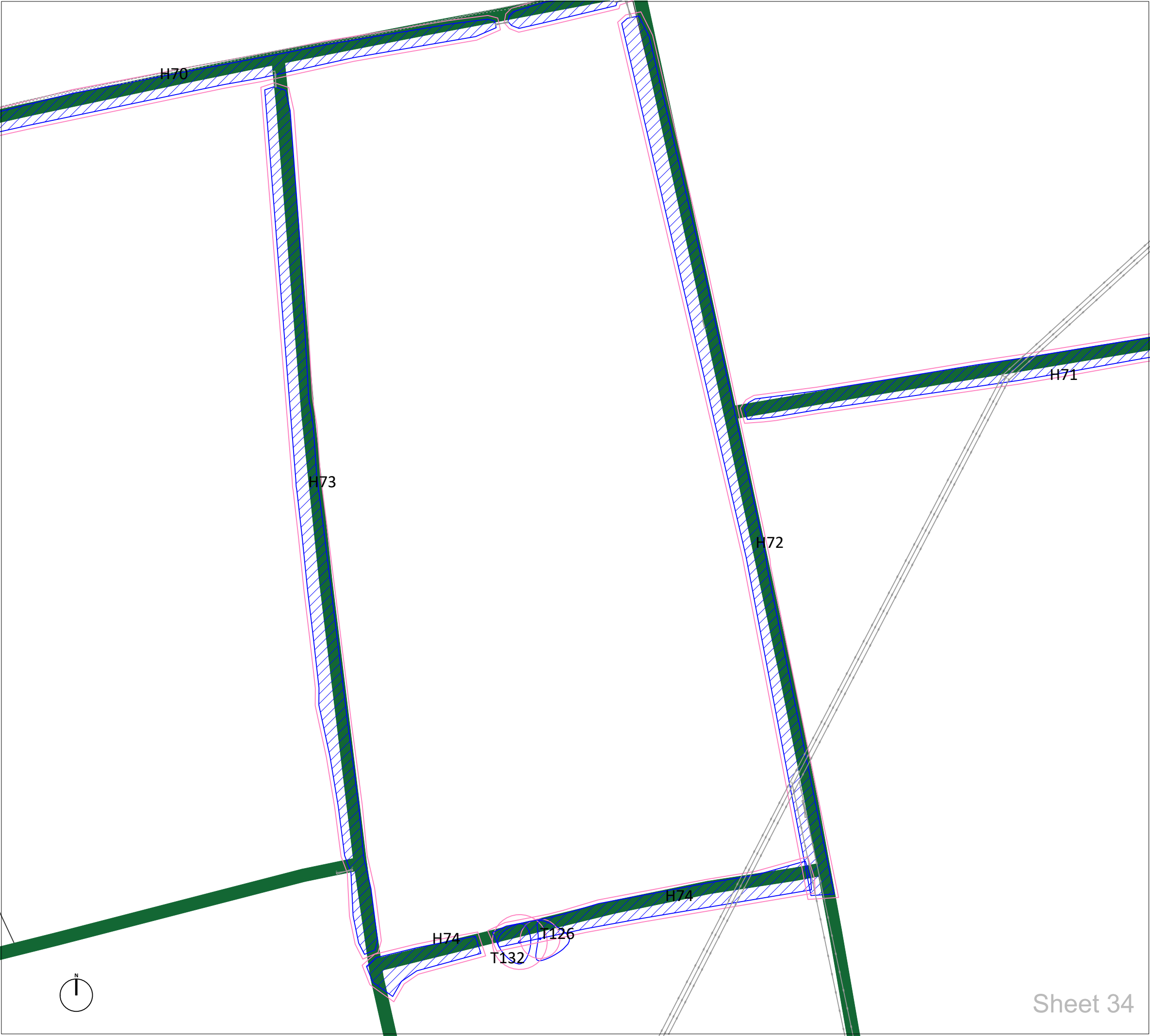
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Sheet 34

Appendix E

3D Cellular Confinement System

Cellweb® TRP

Tree Root Protection

Cellweb® TRP is a 3D cellular confinement tree root protection system. The system provides a 'no dig' solution for the construction of new hard surfaces within root protection areas (RPAs). Cellweb® TRP has been designed and independently tested to comply with recommendations made in Arboricultural Practice Note 12 and BS 5837 2012 – Trees in relation to design, demolition and construction.



Cellweb® TRP Key Functions

Cellweb® is a 'no dig' solution which is constructed directly on the existing ground surface. This eliminates the requirement for excavation, preventing root severance.

Cellweb® is a completely porous system allowing continued water permeation and gas exchange between the rooting environment and atmosphere.

Cellweb® spreads point loads, minimising increases in soil compaction within the rooting environment. This maintains an open graded soil structure allowing continued root growth, water, gas and nutrient migration.

The Cellweb® TRP system comprises the following three components

Treetex™ Geotextile. Following minimal ground preparation the Treetex™ is laid onto the existing ground and top soil. This acts as a separation layer, separating the system above from the soil and rooting environment below. Treetex™ performs as a hydrocarbon pollution control measure in accordance with BS5837, holding 1.7lt of oil per square meter.

Cellweb® 3D Cellular Confinement. The Cellweb® is installed on top of the Treetex™ layer. This is fixed to the ground using ten steel J pins per panel. The panels can be cut to the required shape and adjoining panels can be connected using heavy duty staples or cell ties.

4-20mm Clean Angular Stone. The expanded Cellweb® is infilled with a 4-20mm clean angular stone. The confined angular stone locks together to produce a rigid stone mattress, while maintaining air pockets for continued water permeation and gas exchange. The low fines content of the stone prevents the Treetex™ layer from becoming blocked over time.

Which depth of Cellweb® TRP?

The Cellweb® System is provided in four different depths; 200mm, 150mm, 100mm and 75mm. The depth required is determined by the proposed traffic loadings and the site ground conditions. Geosynthetics in house engineering department can provide a free site specific technical recommendation. For free technical and engineering support please contact Geosynthetics Ltd 01455 617139 or the full installation guide can be found on our website www.geosyn.co.uk.

Indicative Cellweb with overfill

