



ARBORICULTURAL SURVEY (BS 5837:2012)

FOR
PROPOSED DEVELOPMENT
AT

ESSO EG SHIRLEY
490 CHEETHAM HILL ROAD
CHEETHAM HILL
MANCHESTER
M8 0PL

July 2022

Job Number 5064

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Disclaimer

The tree(s) referred to in this report are living entities and are therefore subject to natural processes. They will also be subject to changes to their environment caused by human's activities and to exceptional weather conditions. The inspection undertaken by our qualified staff relies on visual attributes of tree health and structure which can be assessed from a ground based inspection. Hidden defects which are not readily visible may not be detected. We therefore cannot wholly guarantee the condition and safety of the trees inspected beyond what can be reasonably assessed from the procedure used. We would recommend that the trees are regularly inspected and our staff will advise on the suitable frequency of these inspections.

1.0 INTRODUCTION

1.1 Professional Details

- 1.1.1 My name is Peter Murray and I am working on behalf DEP Landscape Architecture Ltd as an Arboricultural Consultant. I have been working and studying in the Arboricultural Industry since 1989. I have many years practical and consulting experience as a Local Authority arboriculturalist and a private sector practitioner.
- 1.1.2 I so far hold the Higher National Diploma in Arboriculture and am a professional member of the Arboricultural Association. I keep up to date with the latest research and best practice by attending relevant courses and seminars.

1.2 Tree Survey

- 1.2.1 We were recently instructed by Euro Garages to carry out a site visit at Esso EG Shirley, 490 Cheetham Hill Rd, Cheetham Hill, Manchester, M8 0PL and survey all significant trees that may be affected by development proposals in accordance with *BS 5837:2012 trees in relation to design, demolition and construction – Recommendations*.
- 1.2.2 The survey on which the findings of this report are based was undertaken on Wednesday 29th July 2022 and the weather was dry and bright.
- 1.2.3 This report should be read in conjunction with the attached Arboricultural Data and Site Plans of Appendix B and D.
- 1.2.4 The trees were inspected from ground level only and all comments and recommendations made have taken into account their location, surroundings and likely impact on persons or property.
- 1.2.5 The limitations of this report are restricted to the persons, time, information made available and purpose for which this report has been prepared. This report does not deal with any existing tree root/building conflicts and no information has been provided regarding soil type and no analysis undertaken by this company.

2.0 FINDINGS

2.1 The Site & Proposal

- 2.1.1 The site in question is a functioning service station within an urban area.
- 2.1.2 The proposal is to re-develop the existing service station and add a drive through coffee outlet within the adjacent scrub land, which is currently sealed off.

2.2 The Soil and Foundations

- 2.2.1 The soil of the site is described at <http://www.landis.org.uk/soilscapes> as being 'Slowly permeable seasonally wet acid loamy and clayey soils' and as having impeded drainage.
- 2.2.2 The following is taken from the NHBC Standards Chapter 4.2 Building near trees: The combination of shrinkable soils and trees, hedgerows or shrubs represents a hazard to structures that requires special consideration. Trees, hedgerows and shrubs take moisture from the ground and, in cohesive soils such as clay, this can cause significant volume changes resulting in ground movement. This has the potential to affect foundations and damage the supported structure. In order to minimise this risk, foundations should be designed to accommodate the movement or be taken to a depth where the likelihood of damaging movement is low.

2.3 The Trees

- 2.3.1 A total of ten individual trees and two groups were surveyed and plotted in order to assess their health and dimensions in accordance with the British Standard and the results are clearly detailed within the Appendices of this report.
- 2.3.2 In general the trees surveyed within the site were found to be in poor to moderate condition for their age and species. They comprise of a self-sown scrub group predominantly Goat Willow. Any works identified within the data tables should take place regardless of development in line with best practice. The quality rating for the trees on or affecting this site can be summarised as follows:

U – 2 trees (T3 & T4)

A – 0 trees/groups

B – 0 trees/groups

C – 10 trees/groups (T1, G1, G2, T2, T5, T6, T7, T8, T9 & T10)

2.4 Standard of Work

- 2.4.1 Any tree work undertaken should be done in accordance with British Standard 3998:2010 and by competent contractors insured with public liability cover of at least two million pounds.

2.5 Statutory Controls

- 2.5.1 If the trees on site are subject to any Tree Preservation Orders (TPO's) or are encompassed within a Conservation Area then statutory permission from the Local Planning Authority (LPA) will be required before any tree works take place.

2.6 Wildlife

- 2.6.1 All operations should take account of wildlife needs and be planned to take advantage of weather conditions and time of year for minimum damage and disturbance. If any protected species or nesting birds are present or discovered while the works are taking place all work should cease until contact has been made with Natural England for further advice. Natural England can be contacted on 0300 060 3900 or by e-mail to: enquiries@naturalengland.org.uk. Specific consideration should be given to the possible presence of roosting bats, which are protected by the Wildlife and Countryside Act 1981 (schedule 5) and included in schedule 2 of the Conservation Regulations 1994. Ideally, a survey should be carried out to identify any potential roost sites and if bats are found to be present advice should be sought from a person qualified and experienced in handling such matters and fully conversant with the implications of the Act.

3.0 DISCUSSION

- 3.1 The majority of the root system, of a tree, is in the surface 600mm of the soil, extending radically for distances frequently in excess of the trees height. Beyond the main structural roots (close to the base of the trunk), the root system rapidly sub-divides into smaller diameter roots: off this main system, a mass of fine roots develops.
- 3.2 The shape of the main structural roots develops in response to the need for the tree to have physical stability. Beyond these major roots, root growth and development is influenced by the availability of water and nutrients. Unless conditions are uniform around the tree, which would be unusual, the extent of the root system will be very irregular and difficult to predict. It will not generally show the symmetry seen in the branch system.
- 3.3 The parts of the root system, which are active in water and nutrient uptake, are very fine, typically less than 0.5mm diameter. They are short lived, developing in response to the needs of the tree, with the majority dying each winter. It is *essential* that conditions in the soil remain conducive to the healthy growth of these fine roots so that the water and nutrients necessary for healthy tree growth can be absorbed.
- 3.4 All parts of the root system, but especially the fine roots, are vulnerable to damage. Once they are damaged, water and nutrient uptake will be restricted until new roots have regenerated. Vigorous young trees will be capable of rapid regeneration but over mature trees will respond slowly, *if at all*.

- 3.5 In order to live and grow, roots need oxygen from the soil. Respiration by the roots and other soil organisms depletes this oxygen and increases carbon dioxide levels in the soil; a correct balance of these gases is normally maintained by diffusion between the soil and the atmosphere. Anything, which disturbs this balance, will affect the condition of the root system.
- 3.6 The factors that most commonly affect this diffusion adversely, and therefore damage roots, are the following: -
- a) Compaction of the ground, which reduces the space between soil particles. This is particularly important on clay soils. A single passage by heavy equipment on clay soils or storage of heavy materials can cause significant damage.
 - b) Changing soil levels, even for a few weeks.
 - c) Covering the root area with impervious surfaces.
 - d) A rise in the level of the water table. Roots can tolerate submersion for short periods. But a permanent rise will deplete the soil of oxygen.
- 3.7 Serious damage is often caused during preliminary site works by stripping the topsoil. For this reason, such works should be avoided until protective fencing has been erected.
- 3.8 Excavations in the rooting area can sever roots. As the majority of roots are in the surface 600mm, even shallow excavations can cause damage.
- 3.9 Excavations for foundations, landscaping or service trenches are usually sufficiently deep to sever most of the roots, and it should therefore be assumed that all parts of the root system beyond the excavation would no longer serve the tree.
- 3.10 Excavation or soil stripping which sever or damage the roots may impair the stability of the tree and make it dangerous.

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

- 4.1 The purpose of this section is to assess the implications the proposed development will have on the trees identified in the Tree Survey of 29th June 2022 carried out by DEP (see Appendix B & D) and advise on arboricultural measures, which would be likely to mitigate any damage resulting from the proposals.
- 4.2 The Site Layout Plan within Appendix D identifies the trees in relation to the proposed development.
- 4.3 In this instance due to the proposals and constraints of the site the trees concerned have not been considered for retention. The proposed new site is waste land that has become overgrown with adventitious scrub Willow trees, which would not be considered viable for retention within any development design.

5.0 MITIGATING PROPOSALS

5.1 Tree Losses and Replacement Planting

- 5.1.1 The loss of any tree is always regrettable, although in this instance the trees concerned are all self-sown scrub specimens that have grown adventitiously over the years on what looks like waste land.
- 5.1.2 It is accepted that these trees do offer some visual amenity collectively to their locality but in this instance the land could not be developed practically whilst retaining them. They are also not the kind of species that would be appropriate adjacent development of this kind.
- 5.1.3 As shown on the proposed plans there is plenty of scope for a good quality replacement tree planting scheme on the important boundaries screening the site.

6.0 METHOD STATEMENT

Before any form of development commences on the site the following works should be undertaken: -

6.1 Tree Works

Tree No.	Proposed Works
T1, G1, G2, T2, T3, T4, T5, T6, T7, T8, T9 & T10	Fell to ground level and remove stumps.

Recommended works should be carried out to the *British Standard Recommendations for Tree Work, BS 3998:2010*

Signed



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APPENDIX A - Glossary of Terms & Table 1 of BS 5837:2012

The following terms are concurrent with best Arboricultural practice and within the guidelines set by the International Society of Arboriculture (ISA), the Arboricultural Association (AA) and the British Standards Institute (BSI).

Dbh: Diameter at Breast Height is measured at 1.5m and recorded in millimetres. Where a tree becomes multi-stemmed below 1.5m the diameter of each stem is measured at 1.5m and added together. Where a tree has low branching or has swelling the stem is measured at the narrowest point below.

Height: Height was estimated and recorded in metres.

Age Range: Age is site specific and categorised:

Young (Y)	Out-planted trees that have not yet established.
Semi-Mature (SM)	Established trees up to 1/3 of expected height and crown.
Early Mature (EM)	Between 1/3 and 2/3 of expected height and crown.
Mature (M)	Between 2/3 and full expected height and crown.
Fully Mature (FM)	Full expected height and crown.
Over Mature (OM)	Crown beginning to break-up and decrease in size.
Senescent (S)	Crown in advanced stage of break-up.

Crown Spread: Measured in metres at four cardinal points (N, E, S & W).

Crown Clearance: Measured in metres from the ground to the first branch tip on development side only.

Condition - Assessment of current physiological condition and structural morphology incorporating vigour and vitality and categorised:

- A - Tree needing little, if any attention
- B - Tree with minor, but rectifiable defects, or in the early stages of physiological stress
- C - Tree with significant structural and physiological flaws and/or extremely stressed
- D - Tree that is dead, biologically/physically moribund or dangerous

Desirability To Retain – As Outlined in Table 1 of BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations (see below).

Definition of Physiological & Morphological Terms

Adaptive Growth - The process whereby wood formation is influenced both in quantity and in quality by the action of gravitational force and mechanical stresses on the cambial zone.

Bifurcation – Forked or divided union.

Brown Rot - Form of decay where cellulose is degraded, while lignin is only modified.

Cankers (target or tumorous) - A localised area of dead bark and cambium on a stem or branch, caused by fungal or bacterial organisms, characterised by woundwood development on the periphery. This may be annual or perennial.

Cavity - An open wound, characterised by the presence of extensive decay and resulting in a hollow.

Chlorotic Leaf - Lacking in chlorophyll, typically yellow in colour.

Compartmentalisation - The physiological process that creates the chemical and mechanical boundaries that act to limit the spread of disease and decay organisms.

Coppicing - Is an ancient form of woodland management that involves repetitive felling on the same stump, near to ground level, and allowing the shoots to re-grow from that main stump. (Also known as the coppice stool).

Crack - Longitudinal spilt in stem or branch, involving bark and/or underlying wood. These may be vertically and horizontally orientated.

Decay - Process of degradation of woody tissues by fungi and bacteria through decomposition of cellulose and lignin.

Deadwood - Deadwood is often present within the crown or on the stems of trees. In some instances, it may be an indication of ill health, however, it may also indicate natural growth processes. If a target is present beneath the tree, deadwood may fall and cause injury or damage and should be removed, otherwise deadwood can remain intact for conservation purposes (insects, fungi, birds etc.).

End Weight - The concentration of foliage at the distal ends of stems and deficient in secondary branches.

Girdling Root - Root which circles and constricts the stem or roots causing death of phloem and/or cambial tissue.

Hazard Beam - An upwardly curved branch in which strong internal stresses may occur without the compensatory formation of extra wood (longitudinal splitting may occur in some cases).

Included Bark Union - Pattern of development at branch junctions where bark is turned inward rather than pushed out. Potential weakness due to a lack of a woody union.

Ivy Growth - Ivy growth may ascend into the tree's crown, increasing wind resistance, concealing potential defects and reducing the tree's photosynthetic capacity. Ivy growth is often acceptable in woodland areas as a conservation benefit.

Live Crown Ratio - The relative proportion of photosynthetic mass (leaf area) to overall tree height.

Reaction Wood - Specialised secondary xylem, which develops in response to a lean or similar mechanical stress, attempting to restore the stem to the vertical.

Root Plate Lift - The physical movement of the rooting plate causing soils to shift and crack. May occur during adverse weather conditions. Trees may become unstable.

Structural Defect - Internal or external points of weakness, which reduce the stability of the tree.

Suppressed - Trees which are dominated by surrounding vegetation and whose crown development is restricted from above.

Topping - A highly disfiguring practise, likely to cause severe xylem dysfunction and decay in major structural parts of the wood.

White Rot - Form of decay where both cellulose and lignin are degraded.

Wound - Any injury, which induces a compartmentalisation response.

Woundwood - Wood with atypical anatomical features, formed in the vicinity of a wound and a term to describe the occluding tissues around a wound as opposed to the ambiguous term "callus."

Woodland Structure - The vertical and horizontal arrangement of trees within a group or woodland i.e. Dominant - trees with a crown above the upper layer of the canopy, Co-dominant trees that define the general upper edge of the canopy, Intermediate trees that have been largely overgrown by others, Suppressed trees that have been overgrown and occupy an under storey position and grow slowly, often severely asymmetrical.

Note: The definitions described above, may not necessarily be included within the Arboricultural Survey Data.

Table 1 – Cascade chart for tree quality assessment

Category and definition		Criteria (including subcategories where appropriate)		
Trees unsuitable for retention (see note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years		- Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) - Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline - Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality Note – Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.		
	1 Mainly arboriculture qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual, or those that are essential components of groups or formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)	
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and minor storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Tree with no material conservation or other cultural value	

APPENDIX B – Arboricultural Data

Arboricultural Data Sheet: Esso EG Shirley, 490 Cheetham Hill Rd, Cheetham Hill, Manchester, M8 0PL **Date of Survey:** 29/06/22 **Weather:** Dry and bright **Surveyor:** PM

Crown C = Crown Clearance; Cond R = Condition Rating; ERC (Yrs) = Estimated Remaining Contribution; TQRA = Tree Quality Category Rating; RPA (m²) = Root Protection Area (m²)

Recommended works should be carried out to the *British Standard Recommendations for Tree Work, BS 3998:2010*

Tree No.	Species	Dbh (mm)	Height (m)	Age	Crown Spread				Crown C	Cond R	Observations and Comments	Preliminary Recommendations	ERC (Yrs)	TQC R	RPA (m²)	RPA Circle Radius (m)
					N	E	S	W								
T1	Ash	500	12	M	6	6	7	6	2	B/C	Located on edge of group on site side of wall. Swamped in Ivy, possibly previously topped near bole. Reasonable vigour but high likelihood of contracting Ash Dieback.	Sever Ivy at base to 1m.	10+	C1	113.10	6.00
G1	Group - Ash, Hawthorn, Cherry, Willow, Silver Birch, Whitebeam, Sycamore, Rowan & Bramble	200	0-5	Y-SM	2	2	2	2	1	B	The site is very overgrown with profuse Cherry suckering and various self-sown trees and shrubs scattered across the site mostly concentrated on the south-east boundary. Inert material dumped across the site including building waste and tyres.	n/a	10+	C2	18.10	2.40
G2	Group - Goat Willow	500	<12	M	7	7	7	7	0	B/C	A close group of scrub Willow stems forming a large overall crown. No access to bases.	n/a	10+	C2	113.10	6.00
T2	Goat Willow	800	12	M	3	6	7	7	2	B/C	A co-dominant one side specimen. Multiple stems near base. Possibly an old, coppiced stump. Some decay at base, crossing limbs in crown.	n/a	10+	C2	289.53	9.60
T3	Goat Willow	700	10	M	0	6	7	6	3	C	A multi-stemmed co-dominant specimen located close to building. Very poor tree with major stem decay and split in trunk.	Fell to ground level.	0-5	U	221.67	8.40
T4	Goat Willow	650	10	M	5	5	6	5	3	C	A twin-stemmed co-dominant specimen located close to building. Very poor tree with major decline in crown. Girdled root at base.	Fell to ground level.	0-5	U	191.13	7.80
T5	Goat Willow	650	10	M	7	7	0	6	3	B/C	A co-dominant closely spaced one side specimen. Multiple stems near base. Swamped in Ivy. Previous removal of lower limbs.	n/a	10+	C2	191.13	7.80
T6	Goat Willow	500	10	M	7	7	2	4	3	B/C	A co-dominant closely spaced specimen. Multiple stems near base. Swamped in Ivy. Previous removal of lower limbs. Minor deadwood.	n/a	10+	C2	113.10	6.00

Arboricultural Data Sheet: Esso EG Shirley, 490 Cheetham Hill Rd, Cheetham Hill, Manchester, M8 0PL **Date of Survey:** 29/06/22 **Weather:** Dry and bright **Surveyor:** PM

Crown C = Crown Clearance; Cond R = Condition Rating; ERC (Yrs) = Estimated Remaining Contribution; TQRA = Tree Quality Category Rating; RPA (m²) = Root Protection Area (m²)

Recommended works should be carried out to the *British Standard Recommendations for Tree Work, BS 3998:2010*

Tree No.	Species	Dbh (mm)	Height (m)	Age	Crown Spread				Crown C	Cond R	Observations and Comments	Preliminary Recommendations	ERC (Yrs)	TQC R	RPA (m²)	RPA Circle Radius (m)
					N	E	S	W								
T7	Goat Willow	600	11	M	2	7	8	6	3	B/C	A co-dominant closely spaced one side specimen. Multiple stems near base. Swamped in Ivy. Previous removal of lower limbs. Minor deadwood.	n/a	10+	C2	162.86	7.20
T8	Goat Willow	700	12	M	7	6	4	6	3	B	A large multi-stemmed specimen within no access to base. Swamped in Ivy. Reasonable form and vigour.	n/a	10+	C1	221.67	8.40
T9	Goat Willow	1000	12	FM	7	7	8	7	3	B	A large multi-stemmed specimen within no access to base. Swamped in Ivy. Reasonable form and vigour.	n/a	10+	C1	452.39	12.00
T10	Goat Willow	500	10	M	2	4	7	5	2	B	A one-sided minor specimen within group. Reasonable vigour.	n/a	10+	C1	113.10	6.00

T10



T1 Ash



G2



T2



T3

T4



T3



T3



T3



T5, T6 & T7



T8



T9



G1



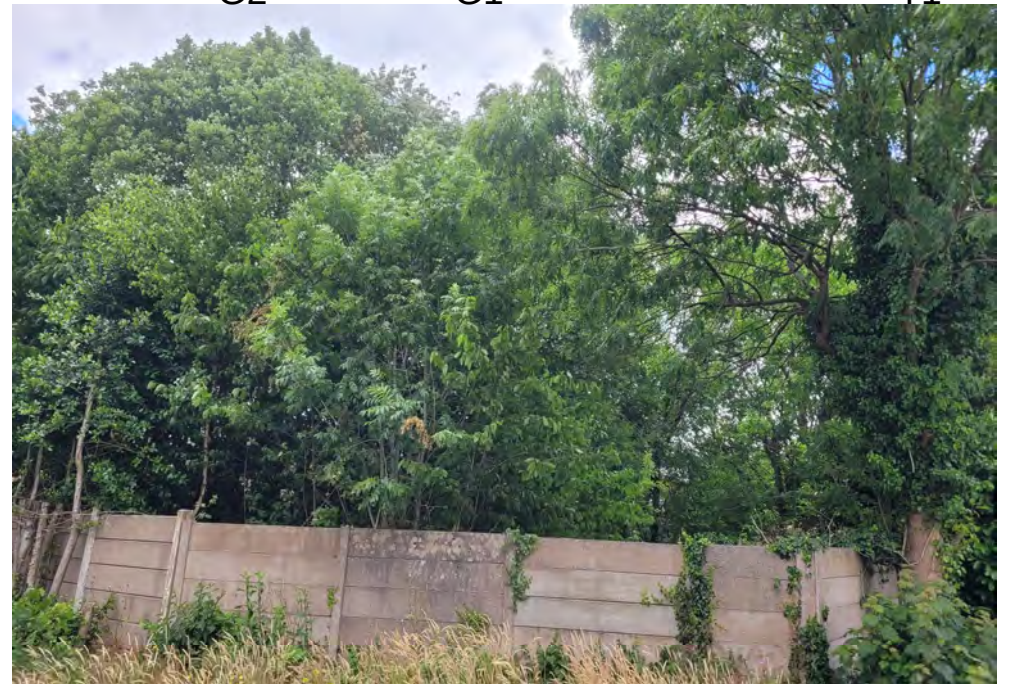
G1



G2

G1

T1



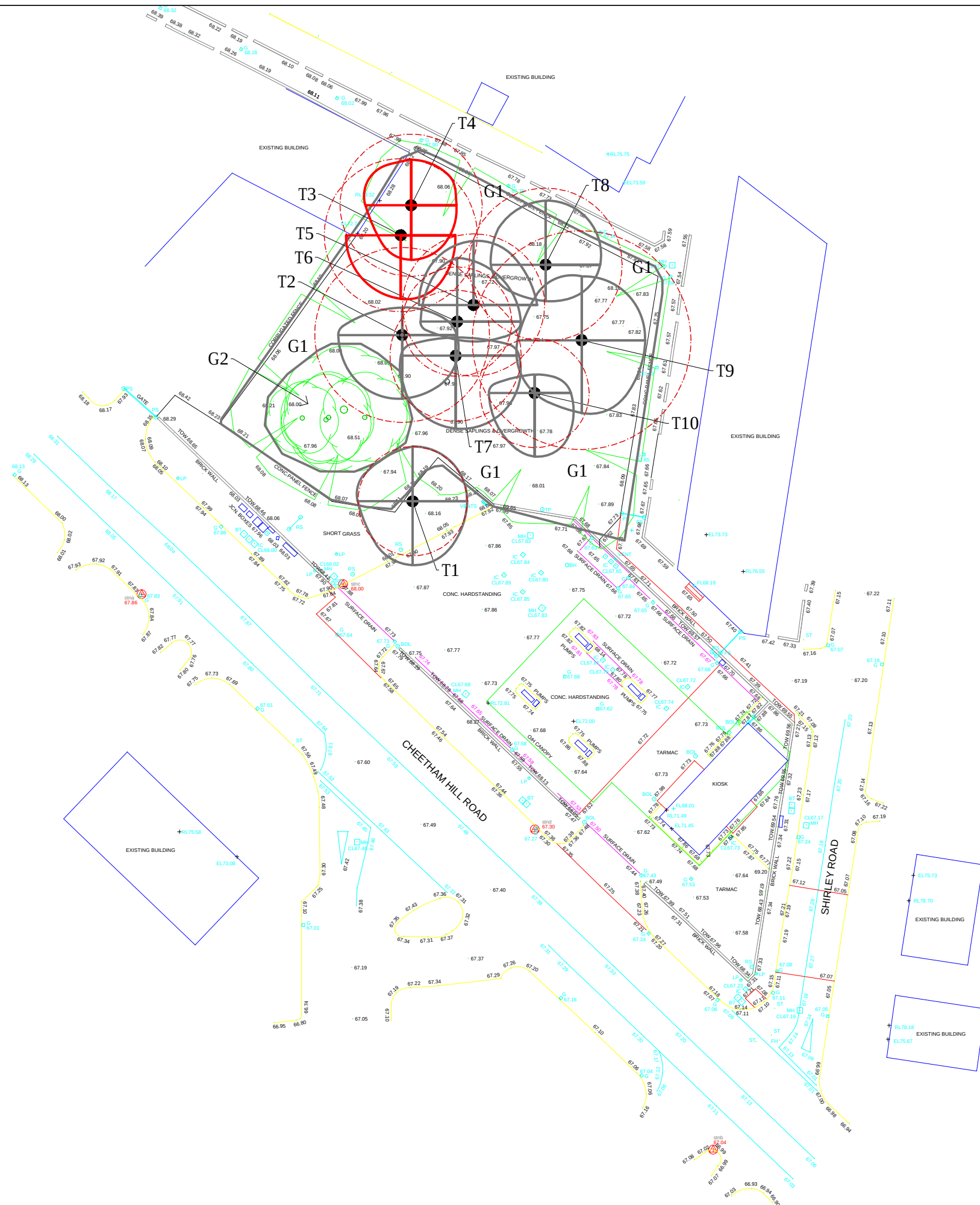
APPENDIX C – Key References

1. *British Standard BS 5837: (2012) Trees in relation to design, demolition and construction - Recommendations. ISBN 978-0-580-69917-7*
2. *Lonsdale, D. (199) Principles of tree hazard assessment and management, Research for amenity trees NO. 2. HMSO, London. ISBN 0-11-753355-6*
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4. *Shigo, A. L. (1989a) A new tree biology. Shigo and Trees Associates, Durham, NewHampshire ISBN 0-943563-04-6*
5. *Stouts R. G. and Winter T. G. (1994) Diagnosis of ill-health in trees, Research for amenity trees No. 2. HMSO, London. ISBN 0-11-752919-2*
6. *British Standard BS 3998: (2010) Tree Work-Recommendations. ISBN 978-0-580-53777-6*

APPENDIX D – Site Plans

Tree Constraints Plan

Development Layout Plans



KEY

TREE SURVEY

T1

Retention Category A trees and groups of high quality

T1

Retention Category B trees and groups of moderate quality

T1

Retention Category C trees and groups of low quality

T1

Category U trees and groups of poor quality

Root Protection Areas: Calculated inline with BS5837:2012 to show a circular RPA which does not take into consideration site conditions



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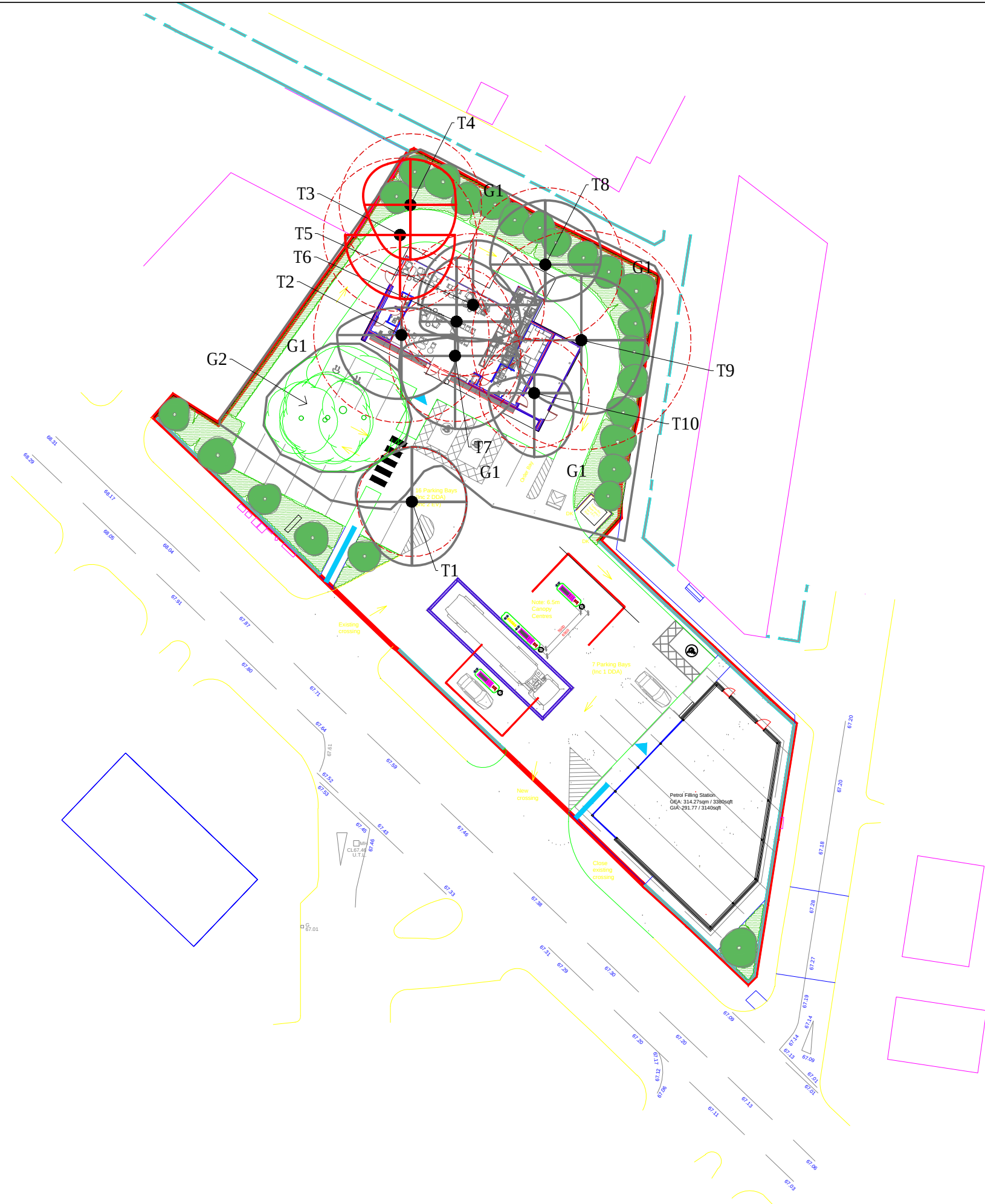
Client
Euro Garages
Project
Cheetham Hill, Shirley Road

Description
Tree Constraints Plan

Status
PLANNING

Scale	1/500@A3	Drawn	PM
Job number	5064	Drawing number	01
Date	18.06.22	Revision	x

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- KEY
- TREE SURVEY
- T1

Retention Category A trees and groups of high quality

T1

Retention Category B trees and groups of moderate quality

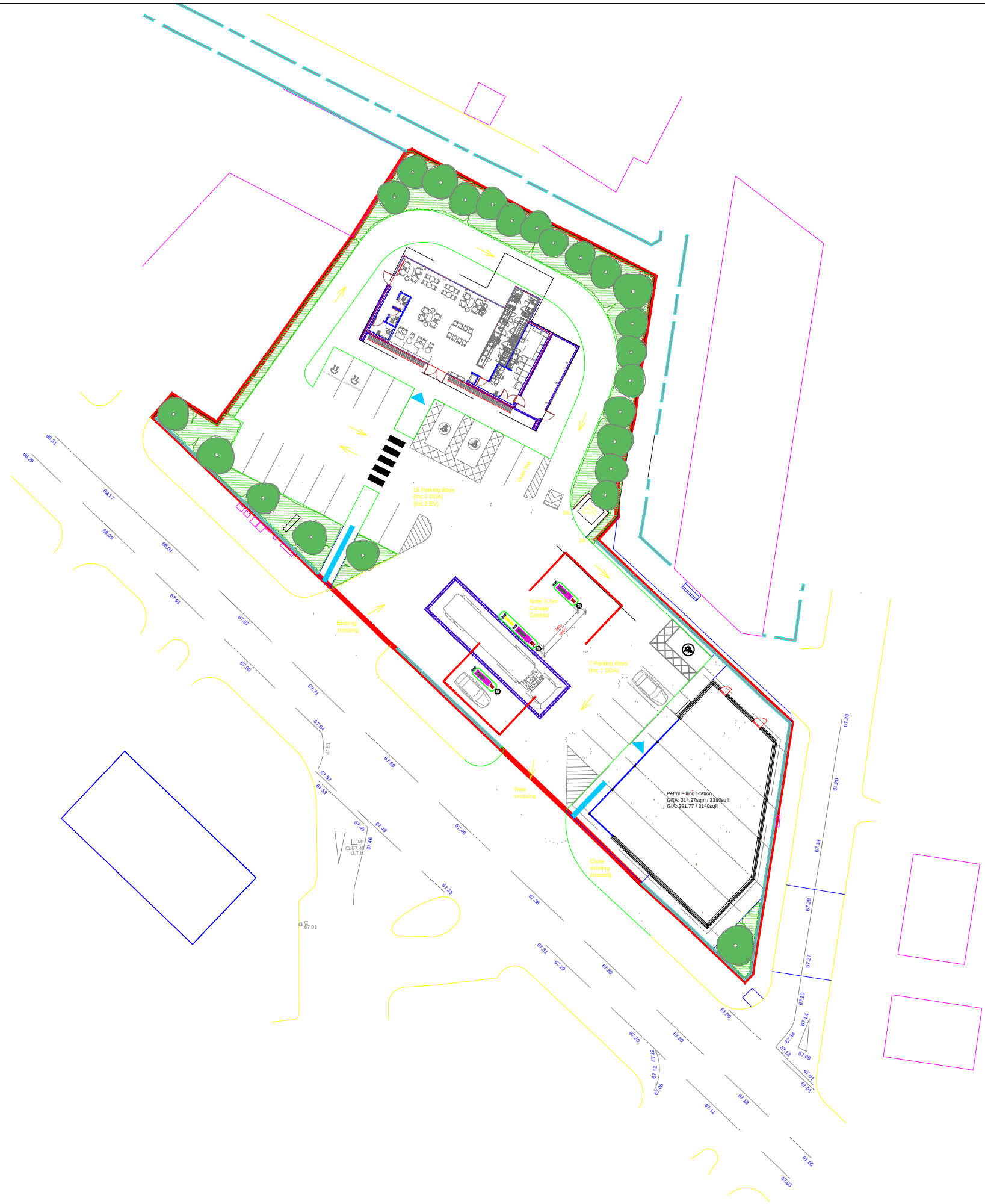
T1

Retention Category C trees and groups of low quality

T1

Category U trees and groups of poor quality

Root Protection Areas: Calculated inline with BS5837:2012 to show a circular RPA which does not take into consideration site conditions
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-
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Development Layout Plan
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- KEY
- TREE SURVEY
- T1

Retention Category A trees and groups of high quality

T1

Retention Category B trees and groups of moderate quality

T1

Retention Category C trees and groups of low quality

T1

Category U trees and groups of poor quality

Root Protection Areas: Calculated inline with BS5837:2012 to show a circular RPA which does not take into consideration site conditions
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-
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- Client
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Project
Cheetham Hill, Shirley Road
- Description
Dev Layout Plan (Trees Removed)
- Status
PLANNING
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