



ArbTS - Arboricultural Technician Services Ltd

(Tree Consultancy Services)

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Arboricultural Report

Including:

Arboricultural Impact Assessment,

Tree Protection Plan and Arboricultural Method Statement

To the British Standard 5837:2012
*(Trees in relation to design, demolition
and construction. Recommendations)*

Date – 14th December 2020

Site – Land Adjacent To Crossways, Crynallt Road, Cimla, SA11 3RN

Project Reference – 1042.1_ Crossways

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1.0 Introduction

- 1.1 The purpose of this report is to assess the arboricultural impact of the development design and provide details regarding the protection of retained trees during construction work for a site at Land Adjacent To Crossways, Crynallt Road, Cimla, SA11 3RN.
- 1.2 Please note that this tree report is to be read in conjunction with the original tree survey report (*Project Reference - ArbTS_409.1_Crossways*).
- 1.3 Arboricultural constraints within the surveyed site relates primarily to the preservation of trees recommended for retention. Identified trees must be protected during the construction phase through the employment of a combination of tree protection methods as illustrated in Appendix 1 Tree Protection Plan and detailed within Section 3 - Arboricultural Method Statement.
- 1.4 The trees' root system and the associated soil structure is often over looked during the construction process and can be damaged or altered by compaction causing major damage to the health of the tree. Generally the entire root system of the tree is within the top 600mm of soil where it can be easily damaged. A calculated area of ground around the tree should be protected for the duration of the onsite construction phase. In this report it is referred to as the Root Protection Area (RPA).

2.0 Arboricultural Impact Assessment (AIA)

- 2.1 The following Arboricultural Impact Assessment has been made for the development design.
- 2.2 Tree Loss - No trees are required to be removed to facilitate the development design.
- 2.3 Root Protection Area (RPA) – RPA potential damage can be managed through the installation of temporary ground protection and temporary tree protective fencing , as designed by an Arboriculturist, will ensure that no significant long term adverse impact will occur to any of the retained trees' root system or associated soil structure. However, some changes in RPA ground levels will be occur from the construction of the rear steps and patio area. The adverse impact of this work can be minimised by arboricultural supervision during any works in this area.
- 2.4 Tree surgery work – Some tree surgery work as detailed on the tree protection plan (Appendix 1) is required to facilitate the construction of the scheme. This work is to be carried out to the *British Standard 3998:2010 tree work recommendations*. Adhering to this standard will ensure no adverse impact onto the long term health or visual amenity of these trees will occur.
- 2.5.1 AIA – Conclusion - The site has a number of Arboricultural constraints that needed to be considered in the development design phase. No trees are identified to be removed to facilitate the construction of the development design.

- 2.5.2 The construction of the proposed development whilst complying to the tree protection scheme as detailed in section 3 will ensure that no significant long term adverse Arboricultural impact occurs onto the health of any retained trees on or adjacent to this site or to the long term amenity of the area.

3.0 Arboricultural Method Statement

- 3.1 The Tree Protection Plan to facilitate the construction of the development design can be found in Appendix 1 of this report. The Tree Protection Plan must comply with all of the following:

- Be regarded as sacrosanct and follow the sequence of events as detailed in the table below
- Be installed before commencement of any demolishing or construction works on site
- Must not be removed or altered without prior approval of the local planning authority

- 3.2 The following table overleaf provides a detail sequence of events that must occur in order to ensure the protection of the retained trees during all stages of the construction process. These methods must be clearly communicated to the entire construction team prior to commencement of any work on site.

Stage	Arboricultural Method Statement (In sequence of events)
1.) Preconstruction (Prior to any construction work on site including demolition work, site material storage etc.)	1.1 – Design areas for construction site storage by site supervisor and the appointed Arboriculturist.
	1.2 – Design position, form and construction methods of all utility services with Arboricultural consideration. All underground service designs MUST conform to the NJUG Volume 4 Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees. The full document is available at http://www.njug.org.uk/ . Local Planning Authority to be consulted on utility service design details and if satisfied to be approved in writing prior to installation during the construction phase.
	1.3– Tree surgery work to be carried out as detailed on the Tree Protection Plan (Appendix 1) to the <i>British Standard:3998:2010: Recommendation for tree works</i> .
	1.4 – Tree protective fencing and ground protection installed in the position and form as detailed in the Tree Protection Plan (Appendix - 1). Installation to be supervised by the appointed Arboriculturist. All weather tree construction exclusion zone posters to be secured to fencing at regular intervals.
	1.5 – Site storage area containers etc. installed as designed and supervised by site supervisor and the appointed Arboriculturist.
	1.6– Appointed Arboriculturist to document all tree protection methods in situ and photographs taken for reference purposes. Copy of document report sent to all parties. Any required preconstruction tree protection planning conditions to be discharged.

2.) Construction	2.1 – Site supervisor to be briefed by the appointed Arboriculturist regarding the Tree Protection Plan/Methods and a laminated copy of the plan/methods to be secured onto the wall in the site supervisor's office. Contact details of the appointed Arboriculturist, Council's Tree Officer to be included. Emphasis made to site supervisor on the importance of the Tree Protection Plan/Methods and possible planning enforcement action (Stop Notice), problems with discharging tree protection conditions and/or legal action of noncompliance with these tree protection methods.
	2.2 – All contractors to be briefed by site supervisor and/or the appointed Arboriculturist regarding the tree protection plan and methods before starting work on site. Emphasis made to contractors on the importance of the Tree Protection Plan/Methods and possible planning enforcement action (Stop Notice), problems with discharging tree protection conditions and/or legal action of noncompliance with these tree protection methods.
	2.3 – Excavation or level increase in RPA under Arboricultural Supervision to be carried out in areas highlighted on the Tree Protection Plan (Appendix - 4). This work to be carried out with the use of hand tools, air spade and possible use of a small excavator (no greater than 2500kg) with a toothless bucket under the constant supervision of the appointed Arboriculturist. Excavator will only work from existing hard surfacing prior to its removal. Any roots discovered less than 25mm in diameter to be pruned cleanly with securer or pruning saw. Careful excavation working method as follows: • Digging started from outside of the Root Protection Area towards the retained tree. • No roots found to be ripped, pulled or crushed during excavation • Any exposed roots to be covered with wet Hessian material • Any roots less than 25mm in diameter to be cut with a sharp knife/ secateurs covered with wet Hessian material • If any roots greater than 25mm in diameter are discovered Arboriculturist to instruct further action. Innovative engineer methods will be sort to retain these roots.
	2.4 – Additional Tree Protection as designed by the appointed Arboriculturist, Installed to protect newly excavated ground.
	2.5 – Construction phase begins
	2.6- Tree Safe Construction (Throughout Site) – areas outside of the construction exclusion zones as shown on the tree protection plan must adhere to the following: • Building materials and fuels such as oil, bitumen or cement should not be stacked or discharged within 20 metres of the trees stem. • Fires will not be lit beneath any tree or in a place where flames could extend to within 10 metres of the tree. • Trees that are to be retained and be protected should not be used as anchorage for services or equipment. • The use of cranes and large machinery on site should be planned and care taken not to damage the trees during the process.
	2.7 – Unforeseen issues which require the alteration of the Tree Protection Plan/Methods, required tree surgery work or immediate remedial work will be submitted to the Local Planning Authority for approval in writing.
3.) Post Construction (<i>Once all construction work has been completed, this includes all utility services</i>)	3.1 – Removal of all tree protection fencing and temporary ground protection
	3.2 – Hard and soft landscaping commence All landscape team members to be briefed regarding tree protections by an Arboriculturist.
	3.3 – Any required remedial tree action taken , such as Leaf Mulch Application, soil de-compaction methods, contamination clean up etc. to be carried out.

4.0 Conclusion

- 4.1 Adhering to the tree protection details as found within this report the proposed development can be constructed without any significant long-term adverse impact onto the retained trees or the amenity of the area.

5.0 Further Information & Qualifications

Stephen Lucocq has been involved in Arboriculture within South Wales for over twenty years. He has worked as an Arborist for many of these years and has a good working knowledge of the practical side of the profession. He has always taken an active interest in all areas of Arboriculture and kept up to date with current research and developments.

Qualifications

- First Class BSc (Hons) Degree – Combined Studies - Biology and IT
- Arboricultural Association Technicians Certificate – Level 4 - (Merit)
- PTI - Professional Tree Inspection (Lantra Awards)
- 2D Computer Aided Design (City and Guilds - Level 3)
- Quantified Tree Risk Assessment (QTRA) – Mike Ellison
- Visual Tree Assessment (VTA) – Mike Ellison
- Arboriculture and Bats (Lantra)
- Industrial Rope Access Trade Association (IRATA)
- Practical Arboriculture Qualifications (NPTC)

Membership

- Arboricultural Association Professional Member (M.Arbor.A)

6.0 Web Information & Bibliography

Web Information

- Arboricultural Association
<http://www.trees.org.uk/>
- Cellular Confinement System
GeoWeb - [GreenFix](#)
CellWeb - [Geosynthetics](#) [Cellweb](#)
- Underground Utilises Installation
<http://www.njug.org.uk/>

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- British Standard 5837:2012, Trees in relation to design, demolition and construction - Recommendations UK; British Standards Intuition
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- Strouts, R.G (2000) Diagnosis of ill-health in trees Edinburgh; Forestry Commission
- Weber, K & Mattheck, C (2003) Manual of wood decay UK; Arboricultural Association

7.0 Appendix 1 – Tree Protection Plan

