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**Extension and Alterations
to
The Former Cyfarthfa Vicarage, Aberdare road, Merthyr Tydfil
for
Mr and Mrs R. Llewellyn**

Tree Protection Plan

Ref. 9037/09/-

Issue 1 - January 2020

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Specific Measures for Tree Protection Works

To be read in conjunction with drawing 9037-05E

1. Training, Awareness and Competency

The building contractor should appoint a 'Site Ecology Champion' for the duration of building works.

The building contractor should carry out site monitoring at weekly intervals to ensure protection measures are adequate and appropriate.

The building contractor will develop measures in line with good environmental practice and British Standards 5837 which gives recommendations and guidance on the principles to be applied to achieve a satisfactory juxtaposition of trees with structures.

BS 5837 follows, in sequence, the stages of implementing the provisions which are essential to allow development to be integrated with trees.

BS 5837 recognises that there can be problems of development close to existing trees which are to be retained, and of planting trees close to existing structures. The standard sets out to assist those concerned with trees in relation to construction.

Trees can occupy a substantial part of a development site and because of their potential size can have a major influence on the planning and use of the site. Existing trees of good quality and value can greatly enhance new development, such as by providing an immediate appearance of maturity.

2. Methodology

The building contractor will install 2.1m high 'Heras' anti vandal fencing at site to provide a physical construction exclusion and tree protection zone. The line of demarcation will be, marked onto a tree protection plan sketch and appended to this document.

In order to avoid disturbance to the physical protection forming the construction exclusion zone once it is installed, the building contractor's site management and supervision will ensure that allowance is made for, and planning carried out for all construction operations which will be undertaken in the vicinity of trees, in particular:

- . a) site construction access;
- . b) the intensity and nature of the construction activity;
- . c) phasing of construction works;

- . d) the space needed for all retaining wall and foundation excavations and construction works;
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- . e) the location and space needed for all service runs including foul and surface water drains, land drains.
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- . f) allowance for backfilling of retaining walls and drainage , services
 - . g) space for mobile plant, scaffolding and access during works;
 - . h) space for site huts, temporary latrines (including their drainage) and other temporary structures;
 - . i) space for storing (whether temporary or long-term) materials, spoil and fuel and the mixing of cement and concrete.
 - . j) the effects of slope on the movement of potentially harmful liquid spillages towards or into protected areas
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Once installed, the physical barriers will be regarded as sacrosanct, and will not be removed or altered without prior recommendation by an arboriculturist and approval of the local planning authority.

The building contractor will ensure that the Heras fencing barriers are fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained tree(s). Special attention must be paid to ensuring that barriers remain rigid and complete.

The Heras barriers will be well braced to resist impacts, with bracing panels at 90 degrees to main protection spaced at a maximum interval of 3 m.

It is not envisaged that mobile craneage will be required for this project. However, the contractor will still ensure that care will be taken when planning site operations to ensure that plant with booms, jibs and counterweights can operate without coming into contact with retained trees.

Any transit or traverse of plant in close proximity to trees will be conducted under the supervision of a banksman to ensure that adequate clearance from trees is maintained at all times.

The building contractor's specific site induction and rules for the project will include the prohibition of any activities which could result in the following:

- . a) Material which will contaminate the soil, e.g. concrete mixings, diesel oil and vehicle washings, should not be discharged within 10m of any tree stem.

- . b) Fires will not be lit on site.
- . c) Notice boards, telephone cables or other services should not be attached to any part of any tree.

This plan should be revised following the final setting of the works. At all stages of consultation and site visits, the retention of as many trees as possible was considered whilst also appreciating that the removal of any 'Asbestos Containing Materials', as well as safe access and working space for constructing the works was paramount.

Within the final landscape scheme, some agreed new shrubs will be planted to replace in affected area.

3. Post Development

If the Local Authority planning conditions incorporate the need for active management following the completion of construction works. A landscape management plan will be developed separately and a copy supplied to all parties who may have an interest in the future management of the site or parts of it.