

Arboricultural Method Statement/Tree & Hedge Planting Proposals

Land at Baldrumma, 87 Wynnstay Lane, Marford, Wrexham

Prepared for:

Mr & Mrs T Reese
C/o Wrexham County Borough Council

Our Ref: 12/AIA/WXM/95

05 September 2012

Tree Solutions Ltd

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1.0 Introduction

- 1.1 Tree Solutions Ltd have been commissioned by Mr & Mrs Reese C/o Wrexham County Borough Council to prepare a site specific Arboricultural Method Statement (AMS) in order to satisfy and discharge Planning Condition No's 6 & 7 of Planning Code No. P/2011/0875 - Land adjoining Baldrumma, 87 Wynnstay Lane, Marford, LL12 8LH
- 1.2 This Method Statement sets out the methodology and protection measures for all works within close proximity to retained trees indicated on the Tree Protection Plan at **Appendix 2**. All trees marked for retention on the approved layout plan ref: PD2010/099/C (Rev A) have been surveyed and are detailed within the tree survey schedule sheets at **Appendix 1**. Trees approved for removal have been identified on the Arboricultural Impact Assessment Plan ref: 12/AMS/WXM/95, drawing No 1. Compliance with this method statement will be a requirement of all relevant contracts associated with the approved development. Copies of this document will be made available for inspection on site.
- 1.4 Trees to be retained and details including the designated Root Protection Area and location of tree protective fencing are clearly indicated on the Tree Protection Plan ref 12/AMS/WXM/95, Drawing No 2 which is at **Appendix 2** to this report.
- 1.5 The purpose of the AMS is to provide information on protection and control measures affecting the existing tree stock. The works, with applicable methodology, are divided into the sequence of operations at paragraph 4.0:

2.0 STATUTORY CONTROLS

- 2.1 No trees are subject to a Tree Preservation Order and the site does not fall within a designated Conservation Area.

3.0 SITE PLAN

- 3.1 The observations and recommendations contained in this document relate to the approved drawing no: PD2010/099/C (Rev A) dated October 2011 undertaken by Wrexham County Borough Council, Asset & Economic Development Department.
- 3.2 The method statement should be read in conjunction with the enclosed Tree Protection Plan, which is based upon the above drawing.

4.0 SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Tree Surgery Works
2. Erect temporary tree protective fencing
3. Main construction phase
4. Removal of temporary fencing
5. Landscaping within RPA of trees

1. Tree Surgery Works

1. Before the erection of the temporary protective fencing, all approved tree removal shall be implemented in accordance with the approved plans
2. All possible efforts must be made to prevent damage to retained trees including potential root incursion or compaction caused by vehicle access.
3. All arboricultural works shall conform to the recommendations of BS 3998 (2010) 'Recommendations for Tree Work'
4. All operatives shall be equipped with and use personal protective equipment (PPE) in accordance with current Health & Safety Executive current directives and industry codes of practice.
5. Performance of all arboricultural operations and use of equipment shall be in accordance with current Health & Safety Executive current directives and industry codes of practice.

2. Erect Temporary Tree Protective Fencing

1. Following completion of the tree felling and prior to commencement of any site demolition, construction, preparation, excavation or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.
2. Tree Solutions are to be given 5 days written notice as soon as all protective fencing has been erected in order to inspect the specification and location. An inspection report will be completed and returned to the LPA Tree Officer for approval. Any damage occurring to protective fencing during the demolition or construction phase shall be made good by the main contractor

3. Main Construction Phase

1. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing
2. No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. No fires will be lit.
3. The site agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage.

Avoiding Damage to Stems and Branches

4. Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury resulting in safe retention impossible

On Site Storage of Spoil and Building Materials

5. Prior to and during all site construction works no spoil will be stored and no cement mixing will take place within the Root Protection Area of any tree on or adjacent to the site even if proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the LPA Arboricultural Officer

4. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all construction work and once all machinery associated with the works has left site.

5. Landscaping within RPA of Trees

1. Landscaping works will be implemented in accordance with a scheme approved by Wrexham County Borough Council
2. There shall be **no rotovation** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
3. No hard landscaping works or excavation for cables or any other service should be installed within the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) without the written consent of Planning Service.

TREE PROTECTION SPECIFICATION

The Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) enclosed by temporary protective fencing shall:

1. Be erected prior to any demolition works, delivery of site accommodation or materials and shall remain for the duration of construction works.
2. Preclude all construction activity with the sole exception of specified arboricultural works and as such works as have been agreed by all parties and to be carried out under supervision.
3. Be protected by temporary protective fencing and other measures as specified.
4. Preclude the storage or tipping of all materials and substances, in addition, toxic substances such as fuels, oils, additives, cement, or other deleterious substances within 5.0 meters of an exclusion zone.
5. Clearly legible weatherproof signage, stating "Protected Trees – Exclusion Zone" shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line.
6. Other than works detailed within this method statement or approved in writing by the Local Planning Authority (LPA), no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.
7. Any incursion into the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) must be by prior arrangement, following consultation with the LPA

Temporary Protective Fencing Type

The fence types are shown on the Tree Protection Plan with the following colour key:-

1. **Magenta** - 2.0M high heavy duty rhino panels (with extra central support bar) mounted on scaffold poles (driven in to the ground) and secured with anti tamper bolts – as illustrated below.



Example of Tree Protective Fencing Specification

Useful Contacts

Arboricultural Consultant

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LPA Arboricultural Officer

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Appendix One

Tree Survey Schedule

TREE SURVEY SCHEDULE (BS 5837: 2012)

TREE SOLUTIONS LTD

SITE:	LAND AT BALDRUMMA, 87 WYNNSTAY LANE, MARFORD, WREXHAM
CLIENT:	MR & MRS REECE
BRIEF:	ARBORICULTURAL METHOD STATEMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	29 AUGUST 2012
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	12/AMS/WXM/95

PAGE 1 OF 2

TREE NO. T - Tree G - Group H - Hedge	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m)				STEM/ MULTI-STEM* DIA.(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m²)
				N	S	E	W						
T1	Ash	FM	17 1.5S	5	5	5	5	900	M/P	- Located on raised verge to Hudsons Hill to south – roots likely to be present beneath – RPA therefore not modified - Tree has shed a number of large diameter limbs in past with main secondary leader to east also missing - Dieback in crown <i>Inonotus hispidus</i> fruiting body on stem - Entirely Ivy clad adding excessive loading - Tree appears to be in decline - E.R.C. <10	Consider future removal & replacement	C1	11 366m²
G1	Hazel Oak Holly Hawthorn	SM / EM	4.5 0	2	2	3	3	≤200	M	- Dense area of unmanaged scrub growth - E.R.C. 10	N/A	C2	2.5 18m²
G2	Beech	EM	16 1.5N	3	3	2.5	2.5	≤400	P/MD	- Overgrown hedge now forming a group of trees, all with bad crown form and weak acute included unions - Severe scorch damage to all stems extending to 4m - E.R.C. 0	Appear to be on and outside boundary. Would recommend removal & replacement with new hedge	U	N/A

TREE SURVEY SCHEDULE (BS 5837: 2012)

TREE SOLUTIONS LTD

SITE:	LAND AT BALDRUMMA, 87 WYNNSTAY LANE, MARFORD, WREXHAM	PAGE 2 OF 2
CLIENT:	MR & MRS REECE	
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TREE NO. T - Tree G - Group H- Hedge	SPECIES (COMMON NAME)	AGE	HEIGHT (m) + CROWN CLEARANCE/ DIRECTION OF GROWTH (N.S.E.W)	RADIAL CROWN SPREAD (m)				STEM/ MULTI-STEM* DIA.(mm)	VITALITY	COMMENTS	MANAGEMENT	CATEGORY & SUB-CATEGORY GRADING BS 5837	BS 5837 RADIUS (m) RPA (m²)
				N	S	E	W						
H1	Laurel	M	5 0	2	2	2	2	224	G	- Multi-stemmed overgrown hedge of no visual significance to locale but provides good green boundary treatment & screen between properties - RPA multiplied in accordance with BS (5 stems at 100mm for each plant x 5) - E.R.C. 20+	Reduce height & spread by 20%	B2	2.7 23m²

HEADINGS & ABBREVIATIONS

TREE NO.
SPECIES:
AGE RANGE/LIFE STAGE:
HEIGHT:
CROWN SPREAD:
CROWN CLEARANCE & DIRECTION OF GROWTH:
STEM DIA/MULTI-STEM DIA:
VITALITY:
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:
BS 5837CATEGORY & SUB-CATEGORY GRADING:
BS 5837 RADIUS & BS 5837 RPA:

REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)
COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)
Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE
ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES
MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)
HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)
STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES
A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD
RELATIVE USEFUL LIFE EXPECTANCY (YEARS)
A = HIGH QUALITY AND VALUE, B = MODERATE QUALITY AND VALUE, C = LOW QUALITY AND VALUE, U = UNSUITABLE FOR RETENTION (SUB-CATEGORY REFERS TO ARBORICULTURAL., LANDSCAPE AND CULTURAL/CONSERVATION VALUES)
PROTECTIVE DISTANCE - RADIUS FROM THE CENTRE OF THE STEM TO THE LINE OF TREE PROTECTION (CONSTRUCTION EXCLUSION ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIONS STATE THAT THE RPA SHOULD BE CAPPED AT 707 M²) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

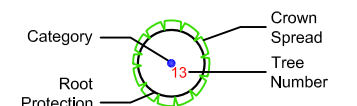
Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
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 category U trees (e.g. 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, or very low quality trees suppressing adjacent trees of better quality <i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i>			See Table 2
	1 Mainly arboricultural 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 arboricultural 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)	See Table 2
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 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 growing 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	See Table 2
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	Trees with no material conservation or other cultural value	See Table 2

Appendix Two
Arboricultural Impact Assessment Plan



Legend



- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)

-  Tree Position Approximate
(not shown on original survey)
-  Tree Proposed for Removal

Client:

Mr & Mrs Reece C/o WCBC

Project:

Land at Baldrumma, Wynnstay Lane, Marford

Title:

Arboricultural Impact Assessment

Scale:

1-500@A3

Date: _____

September 2012

Drawn By:

AM

Revision:

Job Ref:

12/AIA/WXM/95

Drawing No:

01

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Appendix Three
Tree Protection Plan/Proposed Planting Plan

Hedge	Species	Height	Size	Specification	Density m²
C.mon	Crataegus monogyna	40-60cm		1+1 transplants	5/lnm
Tress	Species	Height	Size	Specification	Density m²
A.glut.'imp'	Alnus glutinosa 'Imperialis'		10-12cm	Bare root	1
Q.rob	Quercus robur		10-12cm	Bare root	1
P.Syl	Pinus sylvestris			10 Ltr pot	2

Specification Summary

PLANTING NOTES: All plants to be supplied in accordance with HTA 'National Plant Specification and from a HTA certified nursery. All trees and plants to be supplied in accordance with BS3936: Part 1 (1992) and planted in accordance with BS4428 (1999). Delivery and handling of all plant material to be in accordance with CPSE 'Handling and Establishment of Landscape Plants 1996'. All plants will be watered in a field capacity immediately after planting.

Hedge

Hedge Planting - Hedge plants to be in accordance with BS 3936. All plants shall be 40-60cm or 1+1 transplants, notch planted in a double row 300mm apart and at 5 per linier meter (or as scheduled). Well water plants immediately after planting and prior to spreading of mulch.

Trees

All trees to be in accordance with BS 3936/5236 all planted in a pits 1000x1000x600. Excavated subsoil or stone shall be carted off site to tip. The bottom 250mm of the pit shall be dug and broken up. Backfill shall be imported topsoil as specified unless otherwise directed.

Tree Planting - The trees shall be set upright and at the same depth as grown in the nursery. Topsoil or compost/topsoil mixture shall be backfilled. Backfilling should be done to ensure close contact between the root ball and soil by firming in layers. The soil shall be left level and tidy, any subsoil clods, bricks or stones over 50mm arising shall be collected and carted off site.

Planting Stakes - Each tree shall have one stake long enough to drive until they hold the tree firmly without rocking.

Tree Ties - Ties shall be biodegradable i.e. made of hessian such as 'Naturetie' supplied by Greenleaf Horticulture - www.greenleaffrees.co.uk

Weed Clearance

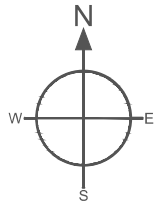
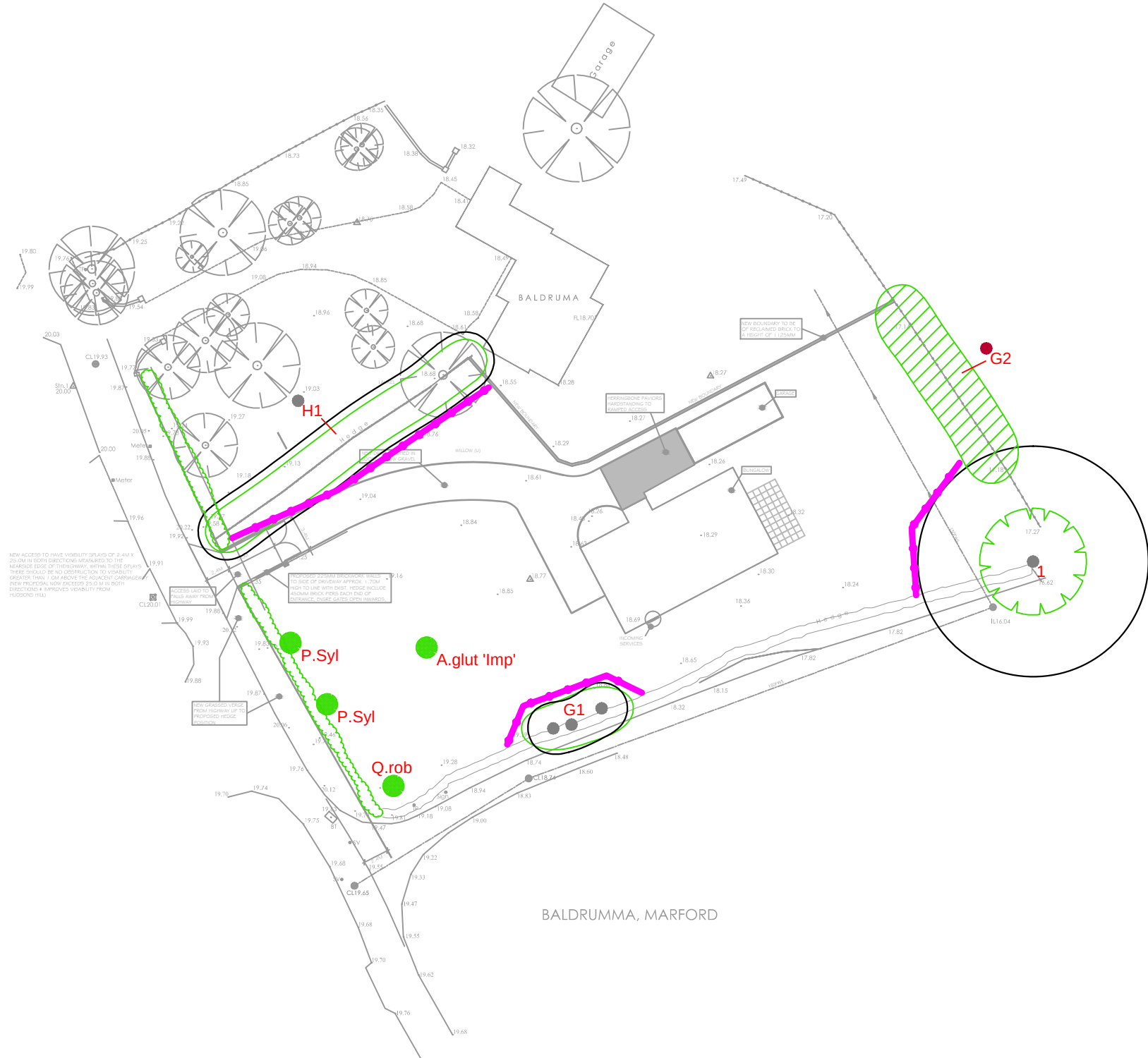
Areas to be planted shall be cleared of any grass and weed growth physically and/or chemically with translocated herbicide (glyphosate based) prior to cultivation operations. All roots of perennial weeds shall be removed. More than one application may be necessary to ensure eradication.

MAINTENANCE / AFTERCARE

The landscape contractor shall maintain all the planting areas for a period of 3 years following practical completion. All planting areas are to be kept well watered and weed free for the duration of the maintenance period. All plants that are found dead, diseased or dying at the end of the first growing season shall be replaced at the contractors own expense in the next available growing season.

A metre radius circle around the planted tree will be mulched to a depth of 80 mm with PAS 100 green waste compost or well composted wood chip or bark. Care will be taken to ensure that the mulch is kept clear of the tree stem. The metre radius area will be kept clear of weeds for a period of three years post planting by the use of translocated herbicide (Glyphosate based) or manual pulling.

Tree stakes and ties will be checked twice a year and adjusted accordingly to prevent girdling or rubbing of the tree stem and shall be removed upon the completion of the initial three year maintenance programme, or once tree planting is considered to have become sufficiently established, whichever is sooner.



Legend

- Category A (High Quality)
- Category B (Moderate Quality)
- Category C (Low Quality)
- Category U (Dead/Dying/In Decline)
- Tree Position Approximate (not shown on original survey)
- 2.0M high Heras fencing mounted on scaffold tubes (driven in to the ground) and secured with steel clips.
- HEDGE PLANTING: proposed standard hedge planting.
- TREE PLANTING: proposed standard tree planting.

Client:	
Mr & Mrs Reece C/o WCBC	
Project:	
Land at Baldrumma, Wynnstey Lane, Marford	
Title:	
Tree Protection Plan	
Scale:	Date:
1-500@A3	September 2012
Drawn By:	Revision:
AM	-
Job Ref:	Drawing No:
12/AIA/WXM/95	02

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Appendix Four

Tree Protection Sign



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**

**(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION**

**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY**