



Land Adjacent to A483, LL14 6TE

Arboricultural/Ecological Method Statement

August 2020

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Supervision

Arboricultural / Ecological Clerk of Works (A/ECOW) will be involved in the following:

Surveying to monitor arboricultural/ecological sensitivities at the site; Monitoring work activities in close proximity to sensitive arboricultural/ecological receptors to ensure impacts are minimised, e.g. preventing pollution run-off to watercourses; Auditing of site management plans and method statements to ensure arboricultural/ecological compliance; Providing advice on the delivery of agreed mitigation measures; Liaising with stakeholders such as regulators, planners and members of the public; Preparing compliance and audit reporting

- Pre-commencement meeting;
- Tree Removals and pruning;
- Installation of protective fencing;
- Removal of protective measures.

All supervisory visits will be logged and a copy of the minutes circulated to all team members including the LPA. A number of the operations named above can be undertaken in a single visit.

The pre-commencement site meeting is to be held before any work is undertaken. All tree protection measures, haul routes, site storage, contractor parking, deliveries, working methods are to be freely discussed and agreed in writing. Initial site visits may be intense to ensure measures are implemented.

General site visits will be undertaken once the site is 'live' at intervals agreed with the team. Our role will be to initially to act in a compliance capacity to ensure the protective measures are fit for purpose and meet or exceed the council's (LPA) requirements and the tree works are undertaken to the required standard. Once this has been completed, our role will be one of monitoring and 'troubleshooting'.

Actions

- Pre-commencement site meeting to agree roles, responsibilities and duties in relation to tree protection. Details to be minuted and distributed.

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Tree Felling/Stump Removal

the LPA.

The following precautions are to be taken.

Actions

- Trees to be removed shall be felled so as to fall away from tree protection zones and to avoid pulling and breaking of roots of trees to remain. Brush can be chipped into the tree protection zone to a depth of 150 mm.
- The roots shall be removed by severing the major woody root mass before extraction. This may be accomplished by Hydro Vacuum & Suction Excavation or Compressed Air Displacement and then, cutting through the roots by hand, with a vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root pruning equipment.
- Trees to be removed within the tree protection zone shall be removed by qualified tree contractors.
- All felled brush and trees shall be removed from the tree protection zone either by hand or with equipment sitting outside the tree protection zone. Extraction shall occur by lifting the material out or by 'skidding' it across the ground.
- Where tree stumps to be retained treat with EcopLugs.
- Site inspections to be reported to the development team and

Construction Exclusion Zone Root Protection

Due to the nature of the works, standard BS 5837 fencing will be used. The Construction Exclusion Zone fence will be heras fence panels fixed to a scaffold framework. Alternatively, heras panels fixed to timber posts. The location will be marked on site by the Arboricultural Consultant and are also shown on the Drawing No. – TPP/4215/Y/300. The requirement will be assessed on a weekly basis by the A/ECow.

Actions

- Heras fencing fixed to a scaffold framework or timber posts as illustrated.
- Fencing installed at locations shown on the plan (TPP/4215/Y/300) and marked on site.
- Location and adequacy signed off by Arboricultural Consultant and LPA advised.
- Tool Box Talk – make construction staff aware of the importance of areas by site manager.
- Signs to be erected advising of the area's importance.
- Fence to be adjusted as noted in the Construction Timetable.



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General Precautions

The retention of trees requires a number of general precautions to be taken. Compliance is to be maintained on site by the Arboricultural Consultant. The site visits are detailed at criterion 1 – Timing of Works.

Actions

- Spoil from the foundation pits or other excavations shall not be placed within the Construction Exclusion Zone.
- No materials, equipment, spoil or washout water may be deposited, stored or parked within the Root Protection Area/ Construction Exclusion Zone.
- On-site inspections to be undertaken by the Arboricultural Clerk of Works with the Arboricultural Consultant visiting during critical operations. The aim of the visits is to maintain on-going liaison with all personnel involved in the site development, Local Planning Authority and its Tree Officer.
- Any defects requiring rectification shall be notified to the Contractor/Site Manager/Arboricultural Consultant and the client.
- A site logbook for tree protection measures is kept to record all stages of the development from the erection of the protective fencing, right through to the completion of the project. This will be made available to the Arboricultural Consultant and the Local Planning Authority, if required, to show evidence of continuous site monitoring.

Protection and Emergency Procedure/Contacts

Adherence to the method statement, appointment of the Arboricultural Consultant and their involvement, at the critical construction phases, should negate any incident. The contact page details those personnel who should be contacted if an incident involving a retained tree should take place.

Actions

- Spill kit available.
- On site fuels to be located away from RPA/CEZ and contained in a bunded tank at 110% capacity.
- All incidents involving trees to be reported by telephone and email.
- Bunded storage of oil/fuels.
- Refuelling points for machinery at distance to the watercourse.
- Use of drop trays under plant/machinery overnight.
- Availability of spill kits on site – and training of site staff in their use.
- No excavation during periods of heavy rain.
- Regular maintenance and inspection of plant – engines and hydraulic systems.

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Contact List

Title	Name	Address	Telephone	Email
A/ECow	Ian Murat	ACS 272 Bath Street, Glasgow	07595 208404	ian@acsconsulting.co.uk
Developer	TBA	Pure Residential and Commercial Limited New Vision House New Vision Business Park Glascoed Road St Asaph Denbighshire LL17 0LP		
Architect	TBA			
Arboricultural Consultant (LPA)	Jon Brewin	Wrexham County Borough Council, Guildhall, Wrexham LL11 1AY	01978 298786	

Appendix A

Contents

Key

BS 5837 2012

Tree data

KEY

Age	Y – Young: Out-planted trees that have not yet established SM – Semi-mature: Established trees up to 1/3 of expected height and crown EM – Early mature: Between 1/3 and 2/3 of expected height and crown M – Mature: Between 2/3 and full expected height and crown FM – Fully mature: Full expected height and crown OM – Over mature: Crown beginning to break-up and decrease in size S – Senescent: Crown in advanced stage of break-up
Physiological Condition	Good – Very few defects a reasonable long life expectancy depending on age class Fair – Some defects giving the tree a shortened life expectancy Poor – Limited life with major problems
Structural Condition	Good – Very few defects Fair – Some defects rectifiable with minor tree surgery Poor – Significant defects rectifiable with major tree surgery or felling
#	Estimated dimensions.
(a)	Average stem diameter across a group of trees.
*	Tree subject to TPO.

Table 1 – Cascade chart for tree quality assessment

Category and definition	Criteria			Identification on Plan
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, or very low quality trees suppressing adjacent trees of better quality. <i>NOTE Category U trees can have existing or potential conservation value which might be desirable to preserve; see 4.5.7</i>			RED
	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 essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dormant 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)	GREEN
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.	BLUE
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 benefits	GREY

Tree Ref No.	Species	Height	Stem Diameter	Branch Spread M				Height of Crown Clearance	Clear Branch Height	Age Class	Physiological Condition	Structural Condition	Comments/Preliminary Management Recommendations	Estimated Remaining Contribution Years	Category Grading
		M	MM	N	E	S	W	M	M						
W1	Copse	<16	<400							SM-M	Good	Good	Copse around a pond. Willow with oak, sycamore, birch, red oak, goat willow, elderberry and maple. Of moderate quality and value in the landscape.	20+	B1/2
1	Oak	12	2000	4	4	4	4	0	3	V	Good	Good	Veteran specimen.	40	A3
G1	Broad-leaved Group	<11	<320	3	3	3	3	0	0	EM	Good	Good	28 oaks formally planted as a row protected by substantial planting guards. Plough line within 2m of several trees. A group of high quality and value in the landscape.	40+	A1/2
2	Hawthorn	5	M/S a 150	3	3	3	3	0	0	M	Good	Fair	Multi-stemmed - typical of species. Located on top of a ditch. A tree of low quality and value in the landscape.	10+	C1/2
3	Thorn	5	M/S	3	3	3	3	0	0	M	Good	Fair	Located on top of a ditch. Plough line. A tree of low quality and value in the landscape.	10+	C1/2
4	Hawthorn	4	300	3	3	3	3	0	0	M	Good	Fair	Multi-stemmed - typical of species. Plough line with 1.5m. A tree of low quality and value in the landscape.	10+	C1/2

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				N	E	S	W								
5	Thorn	5	M/S 100	2	2	2	2	0	0	M	Good	Good	Multi-stemmed. Located on top of a ditch. A tree of moderate quality and value in the landscape.	20+	B1/2
6	Thorn	4	250	2	3	3	3	0	0	M	Good	Good	Located on top of a ditch. Plough line. A tree of moderate quality and value in the landscape.	20+	B1/2
7	Ash	5	200	3	3	3	3	1	1	SM	Good	Good	Located halfway down a ditch. A tree of moderate quality and value in the landscape.	20+	B1/2
G2	Group	14	300	4	4	4	4	0	0	SM/EM	Good	Fair	Group of ash located on top of a ditch Plough line within 1m. Of moderate quality and value in the landscape.	20+	B1/2
8	Oak	5	220	3	3	3	3	0	0	SM	Good	Good	Located on top of a ditch. Plough line within 1m. A tree of moderate quality and value in the landscape.	20+	B1/2
9	Oak	8	350	4	4	4	4	0	0	SM/EM	Good	Good	Located on top of a ditch. Plough line within 1m. A tree of moderate quality and value in the landscape.	20+	B1/2

Tree Ref No.	Species	Height M	Stem Diameter MM	Branch Spread M				Height of Crown Clearance M	Clear Branch Height M	Age Class	Physiological Condition	Structural Condition	Comments/Preliminary Management Recommendations	Estimated Remaining Contribution Years	Category Grading
				N	E	S	W								
10	Thorn	4	200	1	2	3	2	0	0	M	Good	Good	Located on top of a ditch. Plough line within 1m. A tree of moderate quality and value in the landscape.	20+	B1/2
G3	Group	4	M/S	0.5	2	2	2	0	0	M	Good	Fair	Group of thorn. Located on top of a ditch. Plough line within 0.5m. Of low quality and value in the landscape.	10+	C1/2
11	Oak	9	250	3	2	4	4	1	1	SM	Good	Fair	Plough line within 2m. Located on top of a ditch. A tree of moderate quality and value in the landscape.	20+	B1/2
12	Oak	7	250	3	3	3	2	0	0	SM	Good	Fair	Plough line within 1.5m. Located on top of a ditch. A tree of moderate quality and value in the landscape.	20+	B1/2

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