

1.0 INSTRUCTION

- 1.1 Tree Solutions Ltd has been instructed by Pendine Park Care Organisation to provide an Arboricultural Method Statement (AMS) to satisfy and discharge Planning Conditions 7 of Planning Code No: P/2019/0126. Provision of new specialist & extra care facility at Pendine Park Nursing Home, Summerhill.
- 1.2 This Method Statement sets out the methodology and protection measures for all works within close proximity to trees located on and adjoining the site boundary indicated on the Tree Protection Plan at **Appendix 4**. All trees have been surveyed and are detailed within the tree survey schedule sheet at **Appendix 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 (RPA) and location of tree protective fencing are clearly indicated on the Tree Protection Plan Ref 20/AMS/WXM/263, Drawing No 2 which is at **Appendix 3** 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 Unfortunately Wrexham Council have no interactive map with Tree Preservation Order or Conservation Area details listed. There are however TPO trees throughout the site details of which can be obtained via the Council Tree Officer.

3.0 SITE PLAN

- 3.1 The observations and recommendations contained in this document relate to the site layout plan Ref: 4135/01, Drawing No. A(200)03 (Rev A) provided by McCormick Architecture.
- 3.2 The method statement should be read in conjunction with the enclosed Tree Protection Plan, which is based upon the above drawings.

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 protective fencing
3. Main construction phase
4. Removal of temporary fencing
5. Landscaping within RPA's
6. Arboricultural site supervision

1. Tree Surgery Works

1. Before the erection of the temporary protective fencing, all tree removal shall be implemented in accordance with the Tree Survey Schedule at **Appendix 1**
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. Prior to commencement of any 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.

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

Cement Mixing

- The cement mixer will be laid on top of plywood boards in a position outside the RPA of any trees. The mixer will be kept in this position throughout all development work.

Avoiding Damage to Stems and Branches

- 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

- 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 engineering/construction work within each phase and once all machinery associated with the works has left site.

5. Landscaping within RPA of Trees

1. There shall be **no rotovating** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
2. Other than the approved works, there should be no additional 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 the LPA.

6. Arboricultural Site Supervision

1. Tree Solutions appointed as the contract Arboricultural Consultant shall attend a pre-contract meeting and provide a toolbox talk on tree protective measures to be implemented in accordance with the approved method statement (AMS)
2. Prior to commencement of any site engineering and subsequent construction work, Tree Solutions shall inspect the erection of all tree protection measures outlined in this AMS and as indicated on the Tree Protection Plan. Photographic evidence of the location and specification of all protective fencing will be forwarded to the Wrexham County Borough Council Tree Officer upon completion together with a signed off completion form
3. All proposed work within any designated RPA will be overseen by the Tree Solutions with photographic records taken and signed inspection report emailed direct to the LPA for approval

Useful Contacts

Arboricultural Consultant

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LPA Arboricultural Officer

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TREE PROTECTIVE FENCING

- 1 Before the commencement of any demolition and subsequent construction works on site (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below. The LPA Tree Officer will be given 5 days' notice upon completion of the fencing in order to inspect and approve prior to the commencement of any site works.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing daily; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 3 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
- 4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site
- 5 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.

Protective Fencing Detail

2.0M high heavy-duty Heras panels (with extra central support bar) mounted on scaffold poles (driven into the ground) and secured with anti-tamper bolts – as illustrated below.



Tree Protective Fencing Specification

Appendix One
Tree Survey Schedule

TREE SURVEY SCHEDULE (BS5837: 2012)

Tree Solutions

Arboricultural Consultants

SITE:	LAND AT PENDINE PARK CARE HOME, SUMMERHILL RD, WREXHAM, LL11 4YE
CLIENT:	PENDINE PARK CARE ORGANISATION (SUMMERHILL) LTD
BRIEF:	ARBORICULTURAL METHOD STATEMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	09/11/2020
VIEWING CONDITIONS:	GOOD
JOB REFERENCE:	15/AIA/WXM/175

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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						
T1	Ash	EM	16 1N	4.5	5	4	4	350	M	- Small Ivy clad tree - No defects - E.R.C. 20	N/A	B2	4.2 55m²
T2	Ash	EM	15 1.5N	3	1	0.5	4	200	M/P	- Poor structural crown form due to close proximity to T1 - all bias west - Will benefit T1 if removed - E.R.C. 10	Remove to clear space for T1 to develop	C2&3	2.4 18m²
T3	Ash	EM	16 2E	3.5	2	4	2	230	G	- Crown dieback to south - Not a visually prominent tree to locale - E.R.C. 10+	Remove if required	C2&3	2.8 24m²
T4	Holly	M	5 0.5E	1	1	3	1	200	M	- Small insignificant tree with major suppression due to proximity below crown of T6 - E.R.C. 10	Remove if required	C2	2.4 18m²

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 5837 CATEGORY & 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

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				N	S	E	W						
T5	Horse Chestnut	EM	16 1E	3	5	5	4	400	G	- Well established tree with no significant defects - E.R.C. 20+	• N/A	B2	4.8 72m²
T6	Horse Chestnut	FM	19 2W	7	6	5	5	870	M	- Evidence of Horse Chestnut Bleeding Canker on stem - Bifurcates to 3 main leaders with included unions - No long-term viability & would benefit the establishment of better quality T5 - E.R.C. 10	• Remove to clear space for T5	C2	10.4 382m²
T7	Sycamore	EM	16 4S	0	3	1	1	300	M	- Majorly suppressed by T8 - Poor crown form - no value - E.R.C. 10	• Remove	C2	3.6 41m²
T8	Maple (Norway)	FM	18 1W	8	7.5	7	9	740	M	- Large tear out wound to east from loss of previous secondary leader leaving structural weak point & decay in remaining stem - Crown dieback evident - No long-term viability & unsuitable to retain adjacent to any targets i.e. road, car park, property - E.R.C. 10	• Remove	C2	8.9 248m²
T9	Whitebeam	PM	13 1W	6	6	5	5	880	P	- Honey Fungus at base of stem to north - Tree is rapidly reaching the end of it safe & useful life expectancy - E.R.C. <10	• Remove	U	N/A

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				N	S	E	W						
T10	Cypress	M	12 1S	1.5	1.5	1.5	1.5	440	M	- Unattractive specimen of no value - E.R.C. 10	Consider removing & replacing with better quality tree	C2 & 3	5.3 88m²
T11	Oak	EM	9 0	2.5	3.5	4	4	310	M	- Evidence of past partial root failure to north - Small, stunted form - Could be removed & replaced by better quality specimen - E.R.C. 10	Consider removing & replacing with better quality tree	C2 & 3	3.7 43m²
T12	Sycamore	EM	14 0.5E	4.5	3	4.5	4.5	460	G	- Small self set tree with no visual defects - Not visually significant - E.R.C. 10	Remove for development	C2 & 3	5.5 96m²
T13	Oak	M	17 2S	5.5	5	5	7	600	G	- Good quality tree - Failed hazard beam in centre of crown - E.R.C. 40+	Crown clean to remove all dead, dying or hazardous limbs	A2	7.2 163m²
T14	Oak	M	19 2N	8	8	8	8	950	G	- High quality tree with no visual defects - E.R.C. 40+	N/A	A1	11.4 408m²
T15	Sycamore	M	18 1S	7	6	8	8	840	G	- No defects - Not visually prominent from within the site - E.R.C. 20+	N/A	B2	10.1 319m²

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				N	S	E	W						
T16	Sycamore	M	17 1W	7	4	6	9	840	G	- Leans west - Decay cavity at base to east & at 3m - E.R.C. 20+	• N/A	B2	10.1 319m²
T17	Sycamore	EM	16 3W	4	5	5	4	440	G	- Self set tree of no significant visual value - E.R.C. 10+	• Consider removing & replacing with better quality tree	C2	5.3 88m²
T18	Lime	EM	16 4.5S	5	5	5	5	400	G	3 stems at 0.5m centres all from past coppice stool - Stem to North has Honey Fungus at base - E.R.C. 10	• Could be removed if required	B2	4.8 72m²
T19	Sycamore	M								- Major crack below included union extending down the main stem Dangerous Tree - E.R.C. 0	• Fell	U	N/A
T20	Sycamore	M	17 1W	6.5	4	5	7	720 560 (912)	G	2 stems from base - both recorded - No significant defects - Not visually prominent due to surrounding scrub - E.R.C. 20+	• N/A	B2	11 380m²
T21	Oak	FM	9 0W	4.5	5	5	5	1000	G	- Veteran tree with historical importance to site - High amenity & biodiversity value - E.R.C. 40	• N/A	A2&3	12 452m²

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				N	S	E	W						
T22	Sycamore	EM	17 1.5S	4	7	3.5	5	340 370 (502)	M	- All crown bias south - Possible root damage during installation of road to north - Poor quality tree of no value - E.R.C. 10	Consider removing to open up view to T21	C1	6 114m²
T23	Hawthorn	M	9 0	2	2	2	2	100x 5 (224)	G	- No defects - Not visually prominent - E.R.C. 10	No works	C2	2.7 23m²
T24	Birch	EM	10 1N	3	2.5	2	2	250	M	- Small tree of no significant value - E.R.C. 10	No works	C2	3 28m²
T25	Sycamore	M	10 1S	2.5	3	3	2.5	430	G	- Roots damage likely during installation of adjacent access road to south - Small tree of little long-term value. Would be better removed & replaced with a better-quality specimen tree within open space to NW - E.R.C. 10	Could be removed if required	C2	5.2 84m²
T26	Oak	EM	11 1N	6	5	6	6	470	G	- Good quality well established tree - E.R.C. 20+	No works	B2	5.6 100m²
T27	Hawthorn	M	6 0W	4	4	4	4	400 x2 (566)	G	2 stems from base - No defects - E.R.C. 20+	N/A	B2	6.8 145m²

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				N	S	E	W						
T28	Malus	M	7 1W	4.5	4	4	4	430	G	- No defects - Attractive small tree well worth retaining if possible - E.R.C. 20	N/A	B2	5.2 84m²
T29	Sycamore	EM	9 1W	4.5	4.5	4	4.5	350	G	- No defects - Not visually prominent - E.R.C. 10	Remove if required	C2	4.2 55m²
T30	Horse Chestnut	FM	18 0	6.5	7	7	5	1000	G	- Bacterial slim flux on stem to south - Evidence of Horse Chestnut Bleeding Canker - E.R.C. 20	No works	B2	12 452m²

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				N	S	E	W						
G1	Sycamore Pine Lime Holly Ash	EM /M	≤19	5	5	5	5	≤600	G	- Well managed group of trees along eastern boundary - Visually prominent from Summerhill Rd - Dead Holly to SE - E.R.C. 20+	Remove dead Holly	A2	7.2 163m²
G2	Hornbeam	Y	2	0.5	0.5	0.5	0.5	40	G	- Recently planted trees forming an avenue either side of the access road - E.R.C. 20+	Remove 3 trees for site access	B2	0.2 0m²
G3	Sycamore	M	≤18 4W	4	4	5	5	≤500	G	- Linear group at 2m centres forming avenue along Summerhill Road - Visually prominent - E.R.C. 40	N/A	A2	6 113m²
G4	Sycamore	M	≤19 7N	6	7	4	4	≤790	G	- Good quality visually prominent trees forming linear group along SE boundary 1 tree marked on plan hazardous as failed in top - E.R.C. 40	Fell marked tree	A2	9.5 282m²
G5	Acacia Sycamore Ash Holm Oak	M	≤17 1W					≤450	G	- Predominantly unmanaged Sycamore with Acacia to the west. - Trees form a linear copse to west of vehicular access but are not visually prominent from Summerhill Rd as they are set back and screened by G1 - E.R.C. 20	Requires remedial management	B2	5.4 92m²

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				N	S	E	W						
G6	Hawthorn	M	5	1.5	1.5	1.5	1.5	≤200	G	- Small insignificant trees of no visual/amenity value - Easily replaced by new planting - E.R.C. 10	Consider removing and replacing with better quality specimen trees	C2	2.4 18m²
G7	Hawthorn	M	8					≤290	G	- Mass of unmanaged scrub - E.R.C. 10	Remove for development	C2	3.5 38m²
G8	Poplar	EM	13 0	1	1	1	1	≤120	G	- Small group at 0.5m centres - No value - E.R.C. 10	No works	C3	1.4 7m²
G9	Hawthorn	M	6	2	2	2	2	≤220	G	- Small insignificant scrub - E.R.C. 10	No works	C2&3	2.6 22m²
G10	Birch	M	≤16 1N	5	4	5	5	≤360	G	- Unmanaged trees within boundary hedgerow - E.R.C. 20	N/A	B2	4.3 59m²
G11	Elder Hawthorn	M	≤7					≤200	G	- Mass of unmanaged scrub - E.R.C. 10	- Prune eastern canopy back by 2m - Remove low grade edge trees in decline	C2&3	2.4 18m²
G12	Cherry	EM	≤13 0					≤150	G	- Self-set copse of small diameter stems - Not significant to locale - E.R.C. 10	Needs thinning out	C2&3	1.8 10m²

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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						
G13	Pine Lime Beech	M/ FM	≤19 1E	5	6	9	5	≤800	M	- Small copse of mature trees forming 1 large, closed canopy - Visually prominent from within the site & of high amenity value - Needs more detailed risk assessment carried out on individual trees - E.R.C. 40	• N/A	A2	9.6 290m²

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 Plan



Appendix Three

Tree Protection Plan



Tree Protective Fencing Specification



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



TREE PROTECTION AREA
DO NOT ENTER
This area is designated for the protection of trees and is to be kept clear of all vehicles, machinery, materials and other obstructions. Any person entering this area must be accompanied by a person authorised by the client or the contractor.



Legend

Road Protection Area
Modified to Account for
Site Features

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

NOTE: Trees marked with * have approximate locations.

2.0m high fences (with extra central support bar) mounted on scaffold poles (driven in to the ground) and secured with anti tamper bolts - as illustrated.

Client:
Pendine Park Care Organisation (Summerhill) Ltd

Project:
Land at Pendine Park, Summerhill

Tree Protection Plan

Scale: 1:500@A0
Date: November 2020

Drawn By: AM
Revision: A

Job Ref: 20/AMS/WM/263
Drawing No: G2

Do not scale from this drawing all dimensions to be checked on site.

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