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Arboricultural Assessment Report

Westcliff Regeneration Scheme
Westcliff
Scunthorpe
North Lincolnshire

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		Staff Member	Position
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1.0 INTRODUCTION

1.1 This report provides information in accordance with British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction' for a proposed redevelopment scheme for the Westcliff Housing Estate, Scunthorpe.

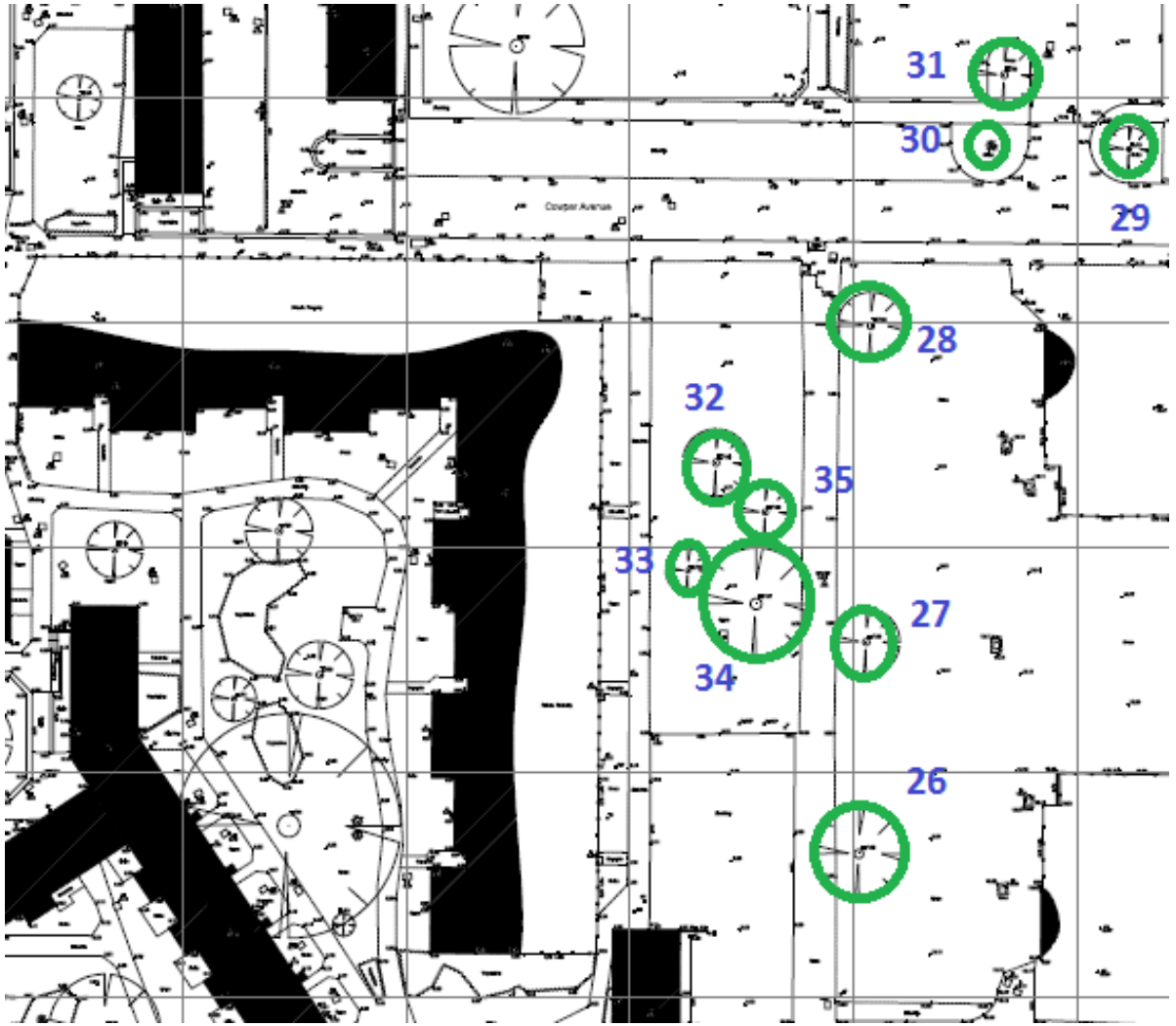
1.2 The aims of the survey are to undertake a survey of all trees and within and on the boundaries of the site.

1.3 The following information was requested as part of the brief:-

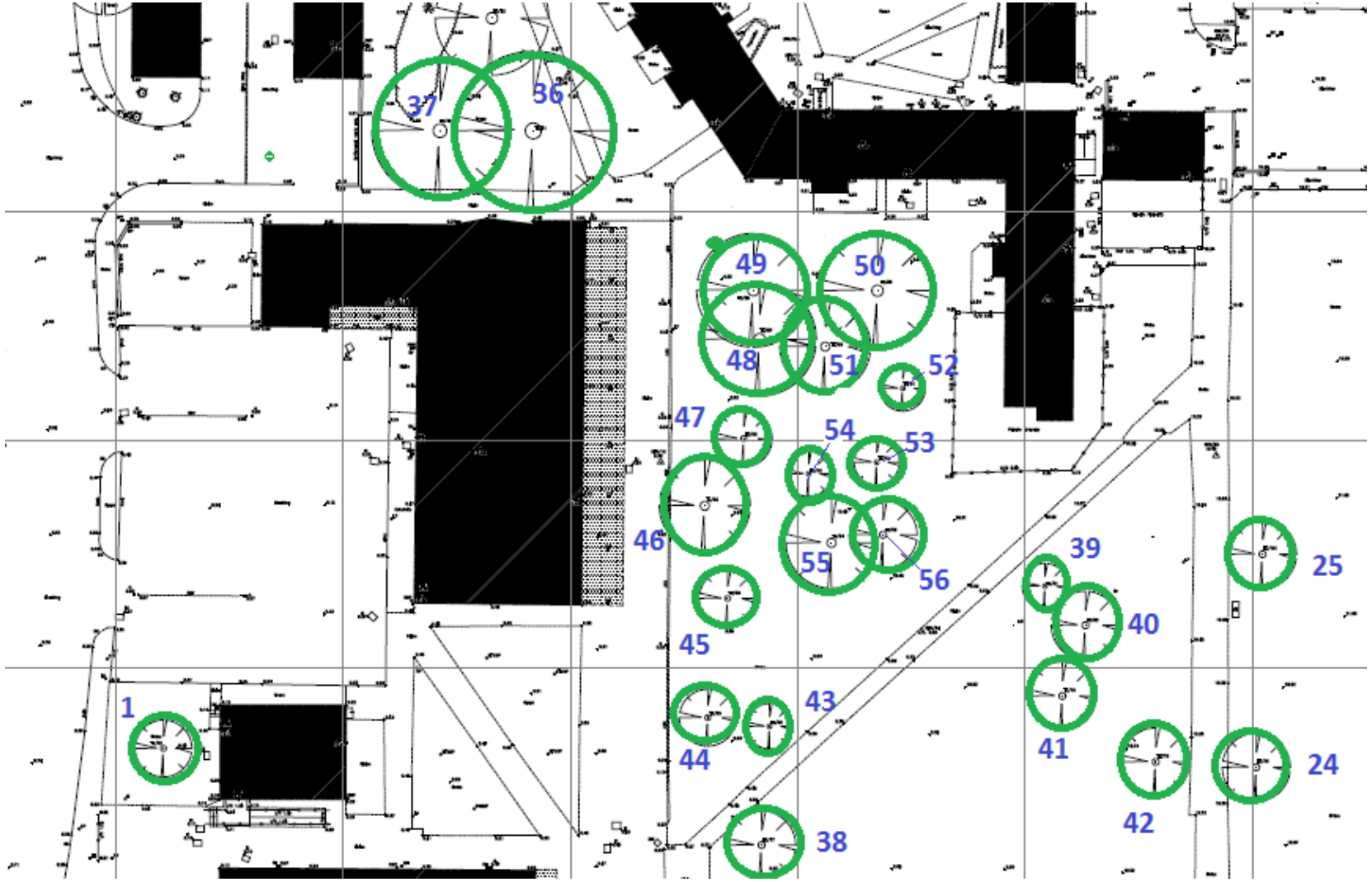
- Designated tree number.
- Tree Species – the common name has been given followed by the Latin or scientific name.
- Height.
- Stem or base (multi stemmed trees) diameter and root protection area provided as a radius from the trunk.
- Crown clearance (height of the periphery of the crown spread above ground level).
- Branch spread (to N, S, E, and W).
- Age class. This is given as young (Y), middle age (MA), mature (M), and over mature (OM).
- Physiological condition - general comments given only, poor, fair, good.
- Tree structural condition - general comments given only, poor, fair, good.
- Useful life expectancy.
- Preliminary management recommendations (a full tree risk survey will not be undertaken at this stage).
- Tree category (U, A, B or C).

2.0 SITE SURVEY See Architects Drawings

Plan 1a- North

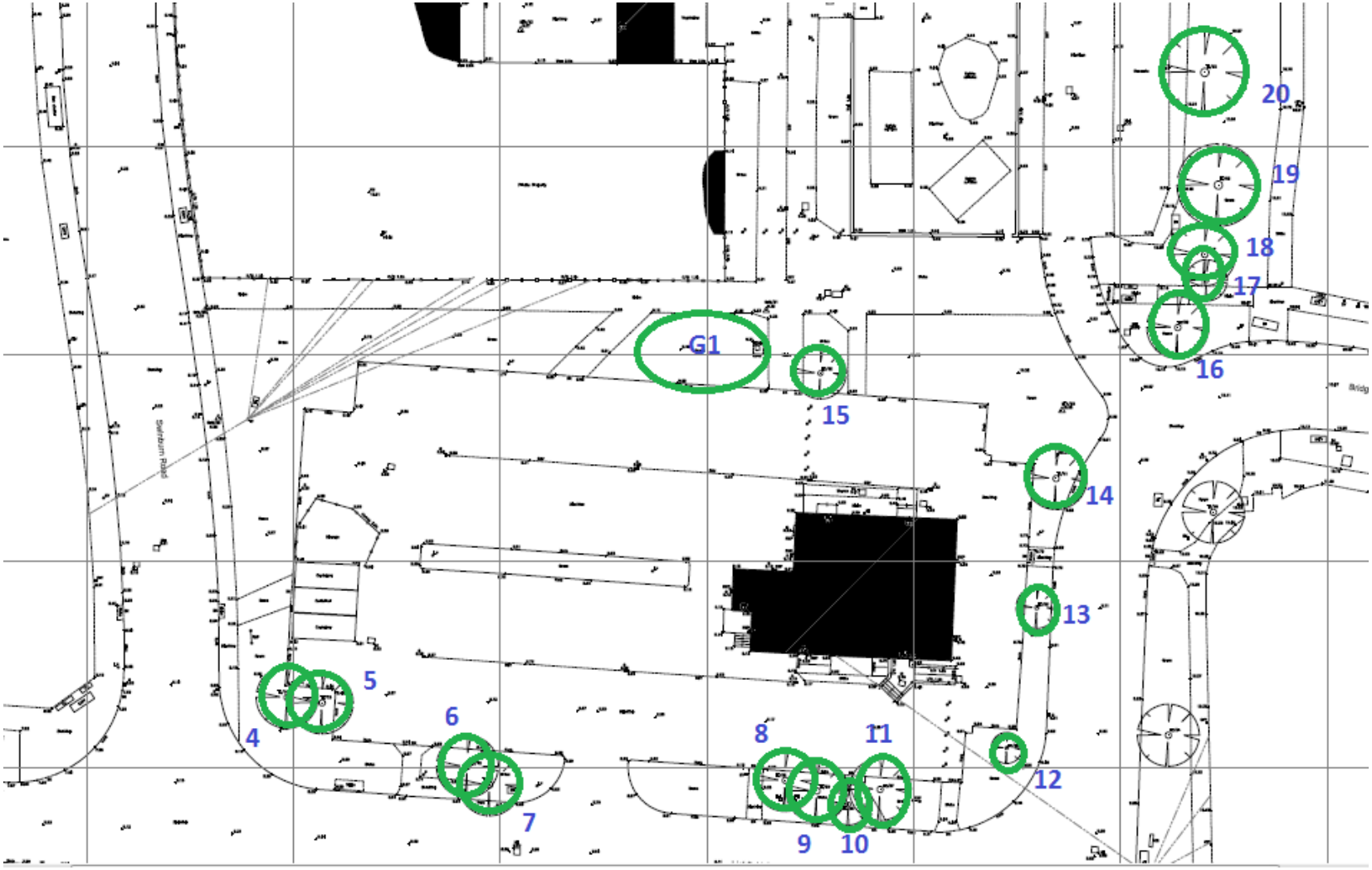


Plan 1b - Central



Plan 1 C – Central / South

Plan 1 D - Southern



3.0 SURVEY METHODOLOGY AND SCHEDULE

3.1 The survey was carried out to British Standard 5837:2012, using the categories explained below:-

3.1.1 The trees were assessed visually from ground level. Where potential problems were identified, further inspection by tree climbing is recommended. No digging or drilling methods were employed during this survey.

3.1.2 The tree numbers within the schedules refer to the order in which the trees were recorded.

3.1.3 The approximate height of each tree is measured from ground level to top of canopy using a clinometer.

3.1.4 The approximate diameter of each tree is measured at 1.5m above ground level. Many trees are not measured due to inaccessibility. The root protection distance which has been expressed as a radius from the trunk of the tree has been given below the diameter measurement.

3.1.5 The age of each tree is based upon our experience.

3.1.6 The physiological condition of the trees is based upon our experience.

3.1.7 The structural condition and description is based upon our experience.

3.1.8 Both the approximate expected lifespan remaining and category/rating of each tree is based upon the surveyor's experience.

3.1.9 The retention category of each tree or group of trees is based upon the information detailed above using the following categories:-

R Trees to be removed for arboricultural reasons
A Trees of high quality and value
B Trees of moderate quality and value
C Trees of low quality and value

3.1.10 The following subcategories have been used in rating tree value:-
1 Mainly arboricultural value
2 Mainly landscape value
3 Mainly cultural values, including conservation

TREE SCHEDULE – (See Plan 1b, 1c, 1d,)

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T1	London Plane	16	490 5.8m	N 5 S 5 E 6 W 5	2	MA	Good	Fair	Remove for development	30+	B2
T2	Weeping Willow	18	920 11.1m	N 9 S 9 E 9 W 9	2	M	Good	Good	Remove for development	30+	B2
T3	Plum	6	180 2.2m	N 2 S 2 E 2 W 2	2	M	Poor	Poor	Remove for development	30+	U
T4	Ash	11	250 3.0m	N 4 S 4 E 4 W 4	2	MA	Good	Good	No action	30+	C2
T5	Ash	11	230 2.7m	N 4 S 4 E 4 W 4	2	MA	Good	Good	No action	30+	C2
T6	Wild Cherry	5	230 2.7m	N 3 S 3 E 3 W 3	2	MA	Good	Good	Remove for development	30+	C2
T7	Wild Cherry	5	260 3.1m	N 3 S 3 E 3 W 3	2	MA	Good	Good	No action	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T8	Norway Maple	14	380 4.6m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2
T9	Norway Maple	14	260 3.1m	N 4 S 4 E 4 W 4	2	M	Good	Good	No action	30+	B2
T10	Norway Maple	12	180 2.1m	N 1 S 3 E 2 W 2	2	MA	Fair	Fair	Remove for development	30+	C2
T11	Norway Maple	14	330 3.9m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2
T12	Dead Cherry	4	380 4.6m	N 2 S 2 E 2 W 2	2	M	Dead	Dead	Remove		U
T13	Norway Maple	14	260 3.2m	N 3 S 3 E 3 W 3	2	M	Good	Good	Remove for development	30+	B2
T14	Norway Maple	12	370 4.4m	N 5 S 5 E 5 W 5	2	M	Fair	Poor	Central Crown dieback Remove	10+	C2/ U
T15	Oak	7	260 3.1m	N 4 S 4 E 4 W 4	2	M	Good	Poor	Remove for development	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
G1	Plum *(8 stems)*	6	300 3.6m	N 3 S 3 E 3 W 3	2	M	Good	Fair	Remove for development	30+	C2
T16	Elm	14	380 4.6m	N 5 S 5 E 5 W 5	2	M	Poor	Poor	Dieback in crown assess in summer	-	C2/U
T17	Crab Apple	5	100 1.2m	N 2 S 2 E 2 W 2	-	Y	Fair	Fair	No action	30+	C2
T18	Sycamore	15	310 3.7m	N 4 S 4 E 4 W 4	2	M	Good	Good	No action	30+	B2
T19	Silver Birch	16	340 4.1m	N 5 S 5 E 5 W 5	2	M	Good	Good	No action	30+	B2
T20	Willow	20	1003 12.0m	N 7 S 7 E 3 W 3	4	FM	Good	Poor	Lost major limb @ 3m possible decay in main trunk	10+	C2/U
T21	Cherry	4	200 2.4m	N 3 S 3 E 3 W 3	2	MA	Good	Good	No action	30 +	C2
T22	Cherry	4	180 2.2m	N 3 S 3 E 3 W 3	2	MA	Good	Good	No action	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T23	Laburnum	4	310 3.7m	N 2 S 2 E 2 W 2	2	MA	Good	Good	No action	30+	C2
T25	Silver Birch	16	320 3.8m	N 4 S 4 E 4 W 4	4	M	Good	Good	No action	30+	B2
T26	Silver Birch	16	390 4.9m	N 5 S 5 E 5 W 5	1	M	Good	Good	No action	30+	B2
T27	Silver Birch	12	210 2.5m	N 3 S 3 E 3 W 3	2	M	Good	Good	No action	30+	C2
T28	Silver Birch	14	320 3.8m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2
T29	Ash	5	170 2.1m	N 2 S 2 E 2 W 2	2	MA	Good	Good	No action	30+	C2
T30	Manna Ash	4	110 1.3m	N 1 S 1 E 1 W 1	2	Y	Fair	Fair	No action	30+	C2
T31	Norway Maple 'Crimson King'	11	250 3.0m	N 3 S 3 E 3 W 3	2	MA	Good	Good	No action	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T32	Sugar Maple	19	530 6.7m	N 5 S 5 E 5 W 5	3	M	Good	Good	No action	30+	B2
T33	Norway Maple	19	390 4.7m	N 4 S 4 E 2 W 3	3	M	Good	Good	No action	30+	B2
T34	Ash	19	520 6.2	N 7 S 7 E 7 W 7	3	M	Good	Good	No action	30+	B2
T35	Mountain Ash	11	240 2.9m	N 4 S 4 E 4 W 4	2	M	Good	Good	No action	30+	C2
T36	Sugar Maple	18	620 7.4m	N 7 S 7 E 7 W 7	3	M	Good	Good	No action	30+	B2
T37	Norway Maple	17	300 3.6m	N 5 S 5 E 5 W 5	3	M	Good	Good	No action	30+	B2
T38	Hornbeam	8	280 3.7m	N 4 S 4 E 4 W 4	2	M	Good	Good	Remove for development	30+	C2
T39	Ash	7	190 2.3m	N 2 S 2 E 2 W 2	2	MA	Good	Good	No action	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T40	Hornbeam	10	270 3.2m	N 5 S 5 E 5 W 5	2	MA	Good	Good	No action	30+	B2
T41	Sycamore	15	450 5.4m	N 5 S 5 E 5 W 5	2	M	Good	Good	No action	30+	B2
T42	Sycamore	17	440 5.3m	N 6 S 6 E 6 W 6	3	M	Good	Good	No action	30+	B2
T43	Ash	8	250 3.0m	N 3 S 3 E 3 W 3	2	MA	Good	Good	Remove for development	30+	C2
T44	Ash	8	280 3.4m	N 3 S 3 E 3 W 3	2	MA	Good	Good	Remove for development	30+	C2
T45	Ash	7	250 3.0m	N 3 S 3 E 3 W 3	2	MA	Good	Good	Remove for development	30+	C2
T46	Norway Maple	12	400 4.8m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2
T47	Hornbeam	12	250 3.0m	N 3 S 3 E 3 W 3	2	MA	Good	Good	Remove for development	30+	C2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T48	Ash	18	470 5.6m	N 3 S 7 E 3 W 7	2	M	Good	Good	Remove for development	30+	B2
T49	Ash	18	450 5.4m	N 7 S 3 E 5 W 7	2	M	Good	Good	Remove for development	30+	B2
T50	Wild Cherry	15	390 4.9m	N 6 S 6 E 6 W 6	2	M	Good	Good	Remove for development	30+	B2
T51	Norway Maple (Crimson King)	15	320 3.8m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2
T52	Ash	12	250 3.0m	N 4 S 4 E 4 W 4	2	M	Good	Good	Remove for development	30+	C2
T53	Ash	11	230 2.7m	N 4 S 4 E 4 W 4	2	M	Good	Good	Remove for development	30+	C2
T54	Horse Chestnut	12	280 3.4m	N 4 S 4 E 4 W 4	2	M	Good	Good	Remove for development	30+	C2
T55	Wild Cherry	14	380 4.6m	N 5 S 5 E 5 W 5	2	M	Good	Good	Remove for development	30+	B2

Tree No	Species	Height M	Stem Dia (RPA)	Branch Spread (m)	Height of crown clearance	Age Class	Physiological condition	Structural Condition	Preliminary Management Recommendations	Useful life expectancy	Category grading
T56	Whitebeam	12	300 3.6m	N 3 S 3 E 3 W 3	2	M	Good	Good	Remove for development	30+	C2

4.0 ARBORICULTURAL IMPLICATIONS ASSESSMENT

Proposed Layout - Plan 2A

4.4 Tree Removal

The proposed scheme involves the removal of a number of trees throughout the site. The weeping willow tree (T2) is perhaps the main individual tree of significance to be removed. However, this tree has now reached full maturity and perhaps not worthy of retention in a new scheme. Indeed due to its close proximity to buildings to be removed it would likely to suffer damage to roots during demolition works.

The main impact of tree loss would however be the removal of the large group of trees T43 to T56 which currently form a fairly large landscape feature on the current amenity area. The size of the 14 trees and mixture of species make this a fairly attractive landscape feature to be removed.

Remove for development

4.4 Central Amenity Strip

It is proposed to retain a central amenity area which runs north to south across the site. The existing trees on this area are proposed to be retained and further tree planting would be possible.

4.4 Tree Protection Details and Construction Space

Details to be confirmed but it is envisaged that all trees to be retained would be provided with tree protection fencing during the development works. Adequate space exists to construct the dwellings without adverse impact on the trees to be retained. Site compounds and material storage would need to be planned to avoid damage to trees.

4.4 Services

Details to be confirmed but all services are to be located outside the root protection areas for the trees to be retained.

4.4 Arboricultural Method Statement

A standard method statement can be provided to outline the sequence of arboricultural work and protection. This would include: notification of the Local Authority of commencement of work, removal of trees, erection of tree protection, commencement of construction work and removal of tree protection measures.