Survey of trees at Bamford Mews, Bamford

Tree No.	Species	Ht (m)	Branch Spread (m) N	E	S	W	Stem diameters (cm) Single Stem	2-5 stems Stem 1	Stem 2	Stem 3	Stem 4	Stem 5	More than 5 stems Mean dia	No. stems	Height of crown clearance (m)	Height of first branch (m) and direction (compass point)	Age class	Category grading	Estimated remaining contribution (yrs)	Condition Physiological / Structural	Preliminary management recommendations	Root protection radius (m)	Root protection area (sqm)
1	Mixed broadleaf tree belt	11av	5av				30av							0	-	S	B2	>20		Established belt of trees along eastern boundary of site. Predominantly field maple with occasional hawthorn.		3.60	41
2	Group of crack willow	16av	5av				45av							3	3N	S	B2	>20		Taller components of tree belt.		5.40	92
3	Silver birch	12	7	7	7	6	45							0	2S	E	B2	>20		One of a line of trees along northern boundary of site.		5.40	92
4	Rowan	9	2	2	2	1	16							2	2S	S	C2	>10		Contributes to row of trees but lacking vitality.		1.92	12
5	Horse chestnut	10	6	5	2	3	20e							2	2N	Y	C2	>10		Contributes to tree belt but growing beyond site boundary. Development compromised by adjoining lime.		2.40	18
6	Hawthorn hedge	2av	1av				10av							0	-	Y	B2	>20		Established but sparse hedge along boundary of site.		1.20	5
7	Lime	15	6	7	7	5	59							0	2SE	E	B2	>20		Lager tree growing along northern boundary.		7.08	157
8	Silver birch	14	6	2	5	4	31							3	3SW	S	C2	>10		Contributes to tree line but development compromised by adjoining lime.		3.72	43
9	Silver birch	15	7	8	9	5	57							2	2W	S	B2	>20		Larger tree along northern boundary of site		6.84	147
10	Silver birch	15	5	2	6	7	46							1	2S	S	C2	>10		Contributes to row of trees along northern boundary. Black exudation at base indicative of honey fungus infection. Unsuited to long term retention.		5.52	96
11	Silver birch	14	6	7	7	6	43							2	2S	S	B2	>20		Large tree growing along northern boundary of site.		5.16	84
12	Hawthorn	7	1	2	3	2	19							2	2E	S	U	<10		Virtually dead. Unsuited to long term retention.		2.28	16
13	Silver birch	14	8	7	7	2	35							1	2S	S	B2	>20		One of a group of 3 similar size trees along the northern boundary.		4.20	55
14	Silver birch	15	7	5	7	4	36							2	3SW	S	B2	>20		One of a group of 3 similar size trees along the northern boundary.		4.32	59
15	Silver birch	14	7	5	8	7	43							1	2S	S	B2	>20		One of a group of 3 similar size trees along the northern boundary.		5.16	84
16	Silver birch	14	5	3	4	2	21							2	2SE	S	C2	>10		One of a group of 3 trees growing along the northern boundary.		2.52	20
17	Silver birch	14	7	5	7	3	31							1	2S	S	B2	>20		One of a group of 3 trees growing along the northern boundary.		3.72	43
18	Silver birch	15	9	7	8	7	40							1	2S	S	U	<10		Lacking vitality. Black exudation on lower stem indicates infection with honey fungus. Unsuited to long term retention.		4.80	72
19	Pair of hawthorn	7av	3av				20av							0	-	S	U	<10		Pair of virtually dead trees growing along northern boundary.		2.40	18
20	Silver birch	13	7	5	6	4	35							2	3N	S	B2	>20		Contributes to row of trees along northern boundary.		4.20	55
21	Silver birch	13	4	2	4	2	20e							2	2S	S	C2	>10		Slender form growing between 2 larger trees.		2.40	18
22	Silver birch	14	7	6	7	7	40e							2	2S	S	B2	>20		Larger example on the northern boundary. Growing amidst hawthorn.		4.80	72
23	Silver birch	14	8	6	5	6	47							0	2S	S	B2	>20		Established tree growing in corner of site. One of a group of 4 trees.		5.64	100
24	Silver birch	13	3	4	2	5	22							3	3E	S	B2	>20		One of a group of 4 trees in corner of site.		2.64	22
25	Silver birch	14	4	6	3	3	22							2	2N	S	B2	>20		One of a group of 4 trees in corner of site.		2.64	22
26	Silver birch	15	6	7	6	7	44							1	3S	S	B2	>20		One of a group of 4 trees in corner of site.		5.28	88
27	Silver birch	14	5	5	4	6	40							0	2E	S	B2	>20		One of a line of trees along the western boundary of the site.		4.80	72
28	Silver birch	12	2	4	3	3	22							3	3W	S	C2	>10		Contributes to row of trees but seems to be lacking vitality.		2.64	22
29	Lime	12	4	4	3	5	45							0	2SE	S	B2	>20		Stands along western boundary. Becoming supressed by adjoining trees.		5.40	92
30	Norway maple	16	8	8	6	7	58							1	2E	S	B2	>20		Forming part of a row of trees along western boundary. Development compromised by adjoining willow.		6.96	152
31	Crack willow	19	6	7	11	10	113							2	2E	E	U	<10		Large example growing on western boundary. Primary failure of main union at circa 3-4m above ground level rendering subsidiary stem highly susceptible to collapse. Unsuited to long term retention in its current form. Pollarding would enable retention and regrowth whilst overcoming propensity to failure.	Pollard to circa 6m above ground level.	13.56	578
32	Group of crack willow	17av	7av				35av							0	-	S	B2	>20		Cluster of stems growing along western boundary. All attaining at size where stem failure is likely. Pollarding would enable their long term retention.		4.20	55
33	Norway maple	16	6	7	7	7	53							2	2S	S	C2	>10		Contributes to trees group but consists of multiple stems with narrow unions between them. These unions, on these species, are liable to failure as the tree matures.		6.36	127
34	Weeping willow	10	6	7	7	6	37							0	2E	S	C2	>10		Contributes to tree line but lacking vitality.		4.44	62
35	Group of goat willow	14av	8av				50av							0	-	E	C2	>10		Group of multi stem trees growing close to western boundary. Interspersed with occasional hawthorn sapling. All attaining a size where stem failure is begining to occur. Coppicing enable regeneration.		6.00	113
36	Norway maple	16	8	7	6	7	48							2	2S	E	B2	>20		Contributes to group of trees in corner of site.		5.76	104
37	Goat willow	16	10	9	2	6		15	41	36	47	32		0	-	E	U	<10		Stem failure has occurred and decay now present in lower stem. Coppicing would promote regeneration.		9.63	291
38	Norway maple	15	2	5	9	6	43							2	2E	E	B2	>20		Forms part of a group of trees in corner of site. Lacking vitality.		5.16	84
39	Row of lime	16av	7av				40av							0	-	S	B2	>20		Contributes towards group of trees in corner of site. Closely spaced.		4.80	72
40	Weeping willow	10	4	2	3	5	36							3	3W	S	C2	>10		Contributes to group of trees but supressed by the more dominant examples.		4.32	59
41	Hawthorn hedge	1.8av	1av				10av							0	-	S	B2	>20		Established hedgerow along southern boundary of site.		1.20	5
42	Silver birch	13	6	6	6	6		42	35					1.8	1.8W	S	B2	>20		Established tree growing on southern boundary of site.		6.56	135
43	Norway maple	16	8	7	6	6	44							1	2S	S	B2	>20		Established tree growing towards southern boundary of site.		5.28	88
44	Group of ash	15av	6av				45av							3	3N	S	U	<10		Group of ash trees on southern boundary. All showing signs of ash die back. Group includes occasional sycamore.		5.40	92
45	Norway spruce	14	3	3	3	2	25e							3	3N	S	C1	>10		Established tree growing within hedgerow. Lower stem smothered in ivy.		3.00	28
46	Group of mixed broadleaves	15av	7av				45av							3	3N	S	B2	>20		Collection of trees growing at corner of site. Mixed species including field maple, beech and sycamore.		5.40	92
47	Mixed tree group	11av	4av				20av							0	-	S	B2	>20		Collection of small trees growing within adjoining gardens. Species incudes silver birch, leyland cypress and goat willow.		2.40	18
48	Silver birch	13	6	6	8	8		27	37	43				0	-	S	B2	>20		Established broad spreading tree growing amidst dense vegetation.		7.54	179
49	Alder	12	2	5	5	3	24							1	1S	S	C2	>10		One of a pair of trees growing amidst rough vegetation.		2.88	26
50	Alder	16	6	7	5	7		27	47					0	-	S	C2	>10		Established tree growing amidst dense vegetation. Some crown dieback.		6.50	133
51	Group of sycamore	10av	4av				12av							0	-	Y	C2	>10		Group of self-set stems growing amidst alders.		1.44	7
52	Alder	7	3	3	0	1	29							1	1E	S	U	<10		Extensive death of bark on what is left of the main stem.		3.48	38
53	Norway maple	7	2	2	3	2	21							1.5	1.5N	Y	C1	>10		Small tree adjoining car park.		2.52	20
54	Cherry	5	3	2	2	2	20							1.5	1.5E	Y	C1	>10		Lacking vitality. Black exudation on stem indicative of bacterial canker.		2.40	18
55	Cherry	6	3	3	3	3	28							1.5	1.5S	Y	C1	>10		Lacking vitality.		3.36	35
56	Rowan	3	2	1	2	2	11							1.8	1.8N	Y	C1	>10		Small tree lacking vitality.		1.32	5
57	Silver birch	14	5	4	4	4	27							2	2N	S	B1	>20		Reasonably well formed tree adjoining car park.		3.24	33

McCARTHY STONE
Life, well lived

0 5m 10m 25m 50m

NOTES

1. **This tree survey information has been prepared for planning purposes only. Additional detail will be needed for foundation design.**
2. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
3. Scale for planning purposes only.
4. All dimensions to be checked on site.
5. The copyright of this document resides with Keen Consultants unless assigned in writing by the company.
6. Details shown on this drawing are devised with reference to *BS5837:2012:Trees in relation to design, demolition and construction - Recommendations.*
7. Check if Tree Preservation Order or Conservation Area protection applies to trees before undertaking tree works.
8. Topographical survey based on JLP Surveying drawing number S24-0677.
9. Where trees were not identified on the topographical survey they have been plotted by eye.

KEY

1. Trees to be considered for retention:
   (Coloured line indicates extent of canopy)
   - Tree Category A 1,2 or 3 - Trees of high quality
   - Tree Category B 1,2 or 3 - Trees of moderate quality
   - Tree Category C 1,2 or 3 - Trees of low quality
2. Trees unsuitable for retention:
   (Coloured line indicates extent of canopy)
   - Tree Category U - Trees that cannot realistically be retained due to their condition
3. Protection Areas:
   - Root Protection Area (RPA) (where RPAs overlap the shading will appear darker)
4. Tree/Hedge numbering:
   - 3 — Tree number - refer to schedule for information

KEY TO TREE SCHEDULE

Column Heading	Explanation
Tree No.	Unique number corresponding with number on plan
Species	English names
Ht (m)	Height in metres
Branch Spread	Crown radius in metres to cardinal points of the compass
Stem Dia	All measurements conform to Annex C of BS 5837:2012 Single stem - Stem diameter in centimetres measured at 1.5m above ground level. Multi-stemmed tree with 2 to 5 stems - Diameter of each stem Multi-stemmed tree with more than 5 stems - Average stem diameter and number of stems
Height of crown clearance	Height in metres between the ground and underside of canopy
Height of first major branch and direction of growth	Height from ground level to base of first major branch and the approximate direction of growth
Abbreviations as suffix to a dimension	Suffix 'e' denotes an estimated dimension Suffix 'av' denotes an average dimension
Age Class	Age Class definitions: Y = Young S = Semi-mature E = Early mature M = Mature O = Over mature
Category grading and Estimated remaining Contribution (yrs)	Summary of BS 5837: 2012 categorisation: 1. Trees unsuitable for retention: 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 that 10 years 2. Trees to be considered for retention: A1, 2 or 3 = trees of high quality (substantial contribution >40 yrs) B1, 2 or 3 = trees of moderate quality (significant contribution >20 yrs) C1, 2 or 3 = trees of low quality (but adequate, ie >10 yrs or young trees - until new planting can be established)
Estimated remaining contribution	Note: Useful estimated remaining contribution of the tree or tree group based on figures stated in BS5837:2012
Condition	Brief description including physiological and structural defects
Preliminary management recommendations	Describes current arboricultural requirement for the tree in its current context
Root Protection Radius	Radius of minimum root protection area in metres calculated from section 4.6 and Annex D of BS5837:2012
Root Protection Area	Total area of minimum root protection area extrapolated from root protection radius

Rev	Description	Date
0	Preliminary issue	05.09.24

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Client
McCARTHY STONE

Project
BAMFORD MEWS,
ROCHDALE

Title
TREE CONSTRAINTS PLAN

Date: SEPT 2024
Scale: 1:500@A1
Drawn by: ML
Checked by: JTK

Drawing Number
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