

**BS 5837 tree report for:  
Parke Farm, Merrion.**

This survey has been carried out with reference to: Common sense risk management of trees produced by National tree safety group 2011, and BS 5837-2012: Trees in relation to design, demolition, and construction. Please note that this report is only valid at the time of inspection, and does not take into account accidental harm, severe weather, pests and diseases that will effect changes to the trees

Tree one (see tree plan)				
Species	Elm		Age Class	Young mature
Stem diameter	46cm		Physiological Condition	Good
Branch spread:	N: 1.3m	S: 2.1m	Structural condition	Average
	E:	W: 0.9m		
Tree height	3.2m		Remaining years	>20
<b>Category grading: C2</b> (see page nine of BS 5837-2012 for definition)				

**Preliminary recommendations:** This is a reasonable example of an Elm that has been pollarded.

**Therefore this tree should be retained.**

**Below ground constraints:** The RPA (Root Protection Area) for this tree will extend 5.52m from the centre of the tree, see annex one for formula. However this tree is growing behind a wall on a bank, and as there is no evidence of root disturbance in the wall, I therefore conclude the wall has acted as a root barrier. Therefore the RPA can be reduced to the wall.

**Above ground constraints:** None

**Arboricultural implications assessment:**

- A clearly defined barrier such as weld mesh panels securely fixed to the ground during construction as per BS 1722-18; this barrier must be around the reduced perimeter of the RPA before construction starts. These panels must be no less than 2m in height.

Tree two (see tree plan)				
Species	Sycamore		Age Class	Mature
Stem diameter	54cm		Physiological Condition	Good
Branch spread:	N: 8.7m	S: 8.5m	Structural condition	Good
	E:	W: 7.6m		
Tree height	19.7m		Remaining years	>40
<b>Category grading: B2</b> (see page nine of BS 5837-2012 for definition)				

**Preliminary recommendations:** This is a good example of a mature Sycamore, that provides a natural backdrop for the site.

**Therefore this tree should be retained.**

**Below ground constraints:** The RPA for this tree will extend 6.48m from the centre of the tree, see annex one for formula. However there is a ditch in front of this tree with no visible roots, so I would conclude that the ditch has acted as a root barrier.

To facilitate construction of the track extension, the RPA on the western side will have to be reduced to 50cm from the trunk.



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The area in front of this tree is to be covered to extend the width of the drive, provided that the ditch is not deepened any further, and lined with drainage pipe to prevent standing water there will be no detrimental effect on this tree.

**Above ground constraints:** A number of branches on the western side extend towards the track, and may become damaged during the construction of the track extension. It would be prudent to prune these branches to give 5.5m clearance from the track.

**Arboricultural implications assessment:**

- All pre-construction pruning work to be carried out to BS 3998.
- No digging machinery greater than 2 tonnes to carry out any ground work within the RPA of tree two, 6.48m
- A clearly defined barrier such as weld mesh panels securely fixed to the ground during construction as per BS 1722-18; this barrier must be around the reduced perimeter of the RPA before construction starts. These panels must be no less than 2m in height.

Tree three (see tree plan)				
Species	Sycamore		Age Class	Young mature
Stem diameter	34cm		Physiological Condition	Good
Branch spread:	N: 3.2m	S: 5.7m	Structural condition	Good
	E:	W: 7.6m		
Tree height	16.9m		Remaining years	>40
<b>Category grading: B2</b> (see page nine of BS 5837-2012 for definition)				

**Preliminary recommendations:** This is a good example of a young mature Sycamore, that provides a natural backdrop for the site.

**Therefore this tree should be retained.**

**Below ground constraints:** The RPA for this tree will extend 4.08m from the centre of the tree, see annex one for formula. Provide that the vehicle passing place starts outside the RPA (4.08m) of this tree, no further action is required

**Above ground constraints:** Some of the branches on the western side extend towards the existing track, and may become damaged during the construction of the track extension. It would be prudent to prune these branches to give 5.5m clearance from the track.

**Arboricultural implications assessment:**

- All pre-construction pruning work to be carried out to BS 3998.
- A clearly defined barrier such as weld mesh panels securely fixed to the ground during construction as per BS 1722-18; this barrier must be around the perimeter of the RPA before construction starts. These panels must be no less than 2m in height.



Tree four (see tree plan)				
Species	Sycamore		Age Class	Young mature
Stem diameter	36cm		Physiological Condition	Good
Branch spread:	N: 7.3m	S: 0.6m	Structural condition	Good
	E: 2.9m	W:		
Tree height	17.9m		Remaining years	>40
<b>Category grading: B2</b> (see page nine of BS 5837-2012 for definition)				

**Preliminary recommendations:** This is a good example of a young mature Sycamore, that provides a natural backdrop for the site.

**Therefore this tree should be retained.**

**Below ground constraints:** The RPA for this tree will extend 4.32m from the centre of the tree, see annex one for formula. Provide that the vehicle passing place starts outside the RPA (4.32m) of this tree, no further action is required. It will not be possible to fence the RPA on the eastern side, because of the access to Parke Farm, and it will not be possible to put a fence on the existing wall. I would therefore recommend using orange mesh fixed to road pins

**Above ground constraints:** Some of the branches on the eastern side extend towards the existing track, and may become damaged during the construction of the passing place. It would be prudent to prune these branches to give 5.5m clearance from the track.

**Arboricultural implications assessment:**

- All pre-construction pruning work to be carried out to BS 3998.
- A clearly defined barrier such as orange mesh securely fixed to the ground with road pins during construction as per BS 1722-18; this barrier must be around the perimeter of the RPA before construction starts. These mesh must be no less than 1m in height.

#### Tree five

Tree five is behind a bank, and is far enough away from any potential construction activities, however a number of branches on the eastern side extend towards the track. It would therefore be prudent to prune these branches back to a suitable point.

**Arboricultural implications assessment:**

- All pre-construction pruning work to be carried out to BS 3998.

#### Hedgerow one.

All of the trees that make up hedgerow one are growing behind the stream, this stream will prevent and roots from growing under the track. Therefore no further action is required. However many of the branches on the western side are growing out over the track, and may become damaged during construction. It would therefore be prudent to prune these branches to suitable points to gain 5.5m clearance from the track

**Arboricultural implications assessment:**

- All pre-construction pruning work to be carried out to BS 3998.



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**Annex one.**

The formula for working out the Root Protection Area RPA, as per 4.6.1 of BS 5837:

RPA = A circle with a radius of 12 times the stem diameter.

	Tree diameter (cm)	RPA (cm)	RPA (m)	RPA area (m <sup>2</sup> )
Tree one	46	552	5.52	96
Tree two	54	648	6.48	132
Tree three	34	408	4.08	52
Tree four	36	432	4.32	59



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