Tree Removal and Replacement – Trees in Conservation Zone at Gatewick House without TPO

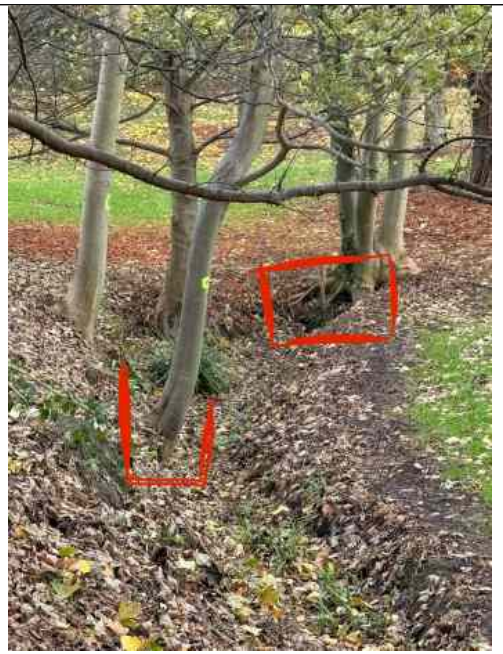
Number	Species	Statistics	Health report	Planned Replacement	Structural Surveyor's Recommendation	Photo
21	**Sycamore** *Acer pseudoplatanus*	Age — Y Diameter — 270mm Height — 10m Grade — D Est. Life Expectancy - <10 years	Causing significant damage to the bridge structure. Single stemmed tree but crown is suppressed and totally dominated by the Poplars and cannot develop fully at this location.	**3 x Betula Nigra multistem** further up the stream where they can grow clear of the bridge/culvert and poplars	"There are a number of trees with root systems clearly affecting one of the culverts and its end wall. It would be prudent to consider their careful removal and replacement a minimum of 5 m away."	 *Tree highlighted in red showing proximity to bridge and some cracks and movement of bridge supports visible which now need to be repaired. Dominant poplar to the right (which will be retained)*

23	**Red Horse Chestnut** *Aesculus x carnea* *To be retained as a standing dead stump for wildlife*	Age — M Diameter — 440mm Height — 10m Grade — D Est. Life Expectancy - <10 years	Significant decaying cavity on trunk that undermines the safety and integrity of this tree. Crown suppressed and totally dominated by the Poplars and cannot develop fully at this location.	**1x Black Poplar** to link with those planted on the other side of the boundary and to increase the biodiversity with this important source for native moth	N/A	 *Cavity at 1.5m clearly visible and large. Tree to be felled above this and retained as stump for wildlife*

29	**Sycamore** *Acer pseudoplatanus*	Age — SM Diameter — 220mm to 160mm Height — 10m Grade — C Est. Life Expectancy - 10-20 years	Multi stemmed group of self sown sycamore. Crown is suppressed all round by dominance of listed tree (TPO 0391/T56) which is the much stronger tree and should be protected from competition from this sycamore	**1 x Stone Pine and 1 salix** planted further from bridge	"The two trees adjacent to the small arched bridge are, via root action, interfering with the historic fabric. Both trees are large and mature and will have roots in and around the arch springing which will inevitably compromise the stability of the structure, which is the only access for fire equipment to the rear of the historic structure of the house."	 *Multi-stemmed sycamore on left and hawthorn on right showing proximity to main bridge*
30	**Hawthorn**	Age — M Diameter — 360mm Height — 5m Grade — C Est. Life Expectancy - 10-20 years	Significant disruption by root action to bridge and driveway access. Multi stemmed trunk at 1m. Crown suppressed and dominated by Sycamore to north side.	**2 x Hawthorn** planted further from bridge		See above
35	Common Ash *Fraxinus excelsior*	Age — SM Diameter — 300mm	Significant arching lean to the west side.	**2 x Black Poplar**	N/A	*Rip out wound visible from distance and in photo below….*

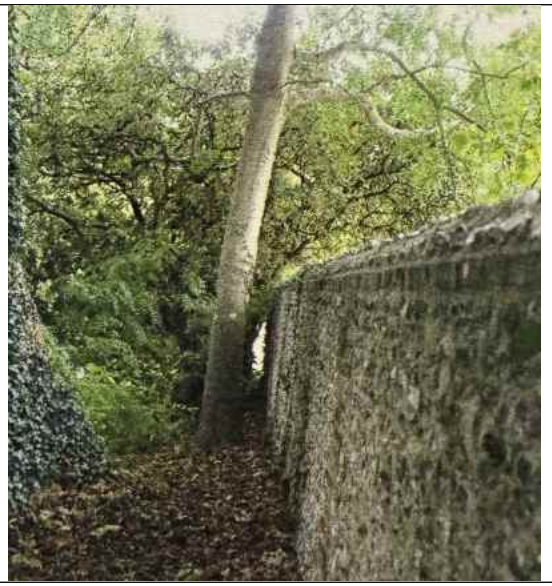
		Height — 14m Grade — D Est. Life Expectancy - <10 years	Large 'rip out' wound on trunk from Im up to 3.5m — once formed half of crown, which is suppressed and totally dominated by the Poplar grouping to the east side. Poor quality tree overall.			
71	**Sycamore** *Acer pseudoplatanus*	Age — M Diameter — 530mm Height — 25m Grade — C Est. Life Expectancy - >30 years	Single stemmed trunk. Crown is suppressed by group of Limes to west side — which are the better trees long term. Tree is close to culvert from the smaller stream and impeding flow	**2 x Prunus** away from the bank and culvert	"There are a number of trees with root systems clearly affecting one of the culverts and its end wall. It would be prudent to consider their careful removal and replacement a	

					minimum of 5 m away."	
76	**Southern Evergreen Magnolia** *Magnolia grandiflora*	Age — M Diameter — 200 x3mm Height — 8m Grade — B Est. Life Expectancy - 30-40 years	Trunk is single stemmed. Crown is causing significant internal structural damage to the Listed building. Suppressed to east side by building.	Replace with **same species** slightly further to north away from building but sheltered by other magnolia once building works have been completed	"The mature Magnolia, immediate adjacent to the house, is in contact with the wall and roof. Any movement in a storm has the potential to damage historic fabric. There is also a risk to the foundations by root action, The tree should be moved away from the building.	 *Tree growing right next to wall and out of proportion with the site*

78	Common Ash *Fraxinus excelsior*	Age — EM Diameter — 250mm x3 Height — 18m Grade — C Est. Life Expectancy - 20-30 years	Growing out of stream bank and roots obstruct the water flow. Trunk is multi stemmed agl. Crown shows significant dieback due to ADD and is suppressed by group pressures. Deadwood throughout. Removal to allow Tulip Tree to develop to east an unusual and fine cut leaf beech tree to the west	**1 x cut leaf beech** away from the stream and other trees to complement the other cut leaf beech	"There are a number of trees with root systems clearly affecting one of the culverts and its end wall. It would be prudent to consider their careful removal and replacement a minimum of 5 m away."	

79	Sycamore *Acer pseudoplatanus*	Age — EM Diameter — 270mm Height — 15m Grade — C Est. Life Expectancy - 30-40 years	Growing out of stream bank, single stemmed trunk. Crown suppressed by group pressures	**1 x Cercis Cadensis** planted away from stream and other trees	"There are a number of trees affecting the culvert and its banks. Theses should be moved to ensure the bank remains sound and competent."	
82	Common Ash *Fraxinus excelsior*	Age — EM Diameter — 3l0mm Height — 20m Grade — D Est. Life Expectancy - <10 years	Growing out of bank top. Trunk is single stemmed. Crown has significant dieback due to ADD. Deadwood throughout. Removal for sanitation reasons for other more significant mature ash	**1 x nyssa sylvatica** planted away from stream and other trees		*Stone bank with ash growing out of it* 

86	Common Ash *Fraxinus excelsior*	Age — M Diameter — 360mm x 3 Height — 30m Grade — C Est. Life Expectancy - 10-20 years	Multi stemmed agl trunk. Tight forks with included bark and extensive growth above this weak point. Removal needed to counter the weak forks and high potential for failure close to house. Will also add to sanitation around remaining, better ash trees	**1 x Parrotia Persica** **1 x acer**		

97	Common Ash *Fraxinus excelsior*	Age — EM Diameter — 340mm Height — 15m Grade — C Est. Life Expectancy - 10-20 years	Contorted trunk and crown suppressed and totally dominated by the veteran Plane and Beech trees. Forced to grow out for the light.	**1 x lime tree** planted away from wall and existing trees	"The flint wall is a reasonably delicate form of construction and susceptible to impact damage and elements that can distort or destabilise it. Trees as close as this or in contact should be removed and replaced further away."	
Group 21	Common Ash x2 *Fraxinus excelsior*	Age — SM Diameter — 280mm & 200mm Height —18 m Grade — D Est. Life Expectancy - <10 years	Growing out of stream bank Self-seeded saplings with contorted trunks and ADD noted in crowns. Poor quality trees overall and removal urgently recommended for sanitation reasons	**3 hornbeam or beech** planted away from bank and stream towards the boundary to give better interest to those walking along Shooting Field		

Group 23	Sycamore x2 *Acer pseuoplatanus*	Age — EM Diameter — 400mm & 300mm Height — 14m Grade — C Est. Life Expectancy - 10-20 years	Single stemmed trunk. Poor quality trees overall and impeding growth of better quality trees including catalpa and Beech	**1 x acacia dealbata** **1 x silver leafed lime**		
Group 24	Wild Cherry *Prunus avium* *&* Winter Flowering Cherry *Prunus subhirtella 'Autumnalis'*	Age — SM Diameter — av 220mm Height — 8 to 12m Grade — D Est. Life Expectancy - <10 years	Crown suppressed and completely dominated by the Horse Chestnut. Crowns weighted east for light and space. Low crown density and vigour and vitality. Poor quality trees overall.	Replaced by at least **three prunus subhirtella** planted further way from dominant trees		

Group 25	Common Ash x2 *Fraxinus excelsior*	Age — SM Diameter — av 250mm Height — 18m Grade — D Est. Life Expectancy - <10 years	Contorted trunks and crowns. Foxtail growths Suppressed by others around them. Advise removal to benefit and growth of better trees surrounding them and for sanitation around major ash tree by allowing more air around its crown	2 x disease resistant elm trees		 *Foxtails on weak ash*