**TREE WORK SPECIFICATION FOR CHATSWORTH PARK – see maps 1-4 attached & grid reference sheet **

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| **No.** | **Species** | **Height** | **Trunk Dia.** | **Life  Stage** | **Comments** | **Works** | **Cost** |
| T74 Map 4 | Hybrid black poplar *(Populus x euramericana)* | 12m | 3 stems @ 1000mm est | Over-mature | Large cavities at stem break; above average dead wood in crown; asymmetrical crown as suppressed by adjacent specimens; elongated limbs toward path. | Safety: Remove limb to east at point marked with pink paint. Remove deadwood over 100mm - arisings can be cut and left in situ - dense natural regeneration. 3 Months. |  |
| T75  Map 4 | Common Horse Chestnut *(Aesculus hippocastanum)* | 10m | 600mm est | Semi-mature | Trunk exudations consistent with bacterial bleeding canker; 300mm min area exposed heart wood south east stem 2m; above average dead wood in crown. | Safety: remove lowest major limb to east - approx 150mm diameter @ 3m. 3 Months. Safety: Re-inspect 2 years. |  |
| T76  Map 4 | Horse chestnut *(Aesculus hippocastanum)* | 12m | 400mm est | Semi-mature | Significant canker throughout tree; inclusion at crown break approx 1m. | Safety: remove deadwood over 80mm. 6 Months. |  |
| T78 Map 4 | White poplar *(Populus alba)* | 4m | 450mm est | Semi-mature | Failed stem split out over woodland walk. | Safety: Fell to ground level. 1 Month. |  |
| T81  Map 4 | Hybrid black poplar *(Populus x euramericana)* | 10m | 2 stems @ 1000mm est | Over-mature | Above average dead wood in crown; cavity at base; multiple occluding cavities; no differences in tone when lower trunk tapped with acoustic hammer. | Safety: remove deadwood over 80mm. 3 Months. |  |
| T83 Map 4 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 14m | 600mm est | Semi-mature | Heavily asymmetric growth to north. | Safety: remove crossing limb and reduce northern crown by 4-5m to suitable growth points.  3 Months. |  |
| T84 Map 4 | Monterey pine *(Pinus radiata)* | 13m | 1000mm est | Mature | Split limb 9m high northern crown; failed or failing limbs to north and west; crossing limb 8m eastern crown. | Safety: remove split limb. 1 Month. Safety: Remove failed, failing and large crossing limb. 3 Months. |  |

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| T100 Map 4 | Aspen *(Populus tremula)* | 10m | 400mm est | Semi-mature | Lowest limb to west defect at 4/5m. | Safety: Shorten lowest limb to west with defect by approx 3/4m. 1 Month. |  |
| T187 Map 3 | Holm oak *(Quercus ilex)* | 9m | 300mm | Semi-mature | Lowest limb poor attachment. | Safety: reduce/remove lowest limb to west. 6 Months. |  |
| T188 Map 3 | Holm oak *(Quercus ilex)* | 9m | 300mm est | Semi-mature | Heavily leaning trunk; shading adjacent property; elongated wind-exposed limbs to west; squirrel damage in crown. | Safety: pollard at 3-4m. 3 Months. |  |
| T189 Map 3 | English oak *(Quercus robur)* | 9m | 350mm est | Semi-mature | Horizontal limb to south east at 4m with significant squirrel damage. | Safety: remove squirrel damaged limb. 3 Months. |  |
| T194 Map 3 | Field maple *(Acer campestre)* | 9m | 250mm est | Semi-mature | Squirrel damage in crown. | Safety: remove squirrel damaged limb. 3 Months. |  |
| T197 Map 3 | Holm oak *(Quercus ilex)* | 10m | 450mm est | Semi-mature | Asymmetrical crown over car park to east. | Facilitative: crown lift and reduce mid crown to 5m height back to crown width at base of tree. 6 Months. |  |
| T200 Map 3 | Holm oak *(Quercus ilex)* | 12m | 300mm est | Semi-mature | Squirrel damage in crown; asymmetrical crown as suppressed by adjacent specimens. | Safety: remove squirrel damaged limbs. Reduce crown width over car park to match width of low crown of adjacent trees. 6 Months. |  |
| T390 Map 1 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 12m | 400mm est | Semi-mature | Long low limb at base; asymmetrical crown as suppressed by adjacent specimens. | Facilitative: lift to 3m. 6 Months. |  |
| T391 Map 1 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 12m | 400mm | Semi-mature | Asymmetrical crown as suppressed by adjacent specimens; crossing supressed vertical stems x3. | Arboricultural: remove 3x vertical supressed stems. 6 Months. |  |
| T392 Map 1 | Hybrid black poplar *(Populus x euramericana)* | 14m | 500mm est | Semi-mature | Elongated limb at 6m, passing through adjacent Sycamore crown. | Safety: remove elongated limb @ 6m. 6 Months. |  |

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| T393 Map 1 | Sycamore *(Acer pseudoplatanus)* | 11m | 2 stems @ 350mm est | Semi-mature | Ivy-covered. | Safety: Cut ivy. 6 Months. |  |
| T394 Map 1 | Hybrid black poplar *(Populus x euramericana)* | 14m | 2 stems @ 700mm est | Semi-mature | Southern scaffold dysfunctional @ 9m; minor dead wood. | Safety: remove lateral, retain vertical on scaffold to south and remove deadwood. 6 Months. |  |
| T395 Map 1 | Sycamore *(Acer pseudoplatanus)* | 10m | 2 stems @ 400mm est | Semi-mature | Ivy-covered; low crown. | Facilitative: Cut ivy; lift crown to 4m. 6 Months. |  |
| T396 Map 1 | Sycamore *(Acer pseudoplatanus)* | 6m | 250mm est | Semi-mature | Heavily ivy-covered. | Facilitative: Cut ivy. 6 Months. |  |
| T397 Map 1 | Sycamore *(Acer pseudoplatanus)* | 10m | 350mm est | Semi-mature | Ivy-covered. | Facilitative: Cut ivy; lift to 4m. 6 Months. |  |
| T398 Map 1 | Hybrid black poplar *(Populus x euramericana)* | 11m | 400mm est | Semi-mature | Dead leader; low over play area; heavily ivy-covered. | Safety: reduce leader over play area by approx 4m; remove low limb. 3 Months. Arboricultural: lift to 3m, sever ivy, remove dead leader. 6 Months. |  |
| T399 Map 1 | Ash *(Fraxinus excelsior)* | 10m | 250mm est | Semi-mature | Low crown; low value Ash. Partially defoliated. Adjacent to play area. | Facilitative: remove low limb.  3 Months.  Safety: fell as low value, high risk, increased chance will succumb to ash die back in near future. By Next Insp. |  |

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| T400 Map 1 | Monterey pine *(Pinus radiata)* | 13m | 800mm est | Mature | Multiple previous branch tear outs over play area; heavily reduced over play area; above average dead wood in crown; leader attached to previous tear out point. | Safety: reduce leader by 3m to suitable node. 6 Months. |  |
| T401 Map 1 | Sycamore *(Acer pseudoplatanus)* | 8m | 2 stems @ 300mm est | Semi-mature | Ivy-covered. | Facilitative: Cut ivy. 6 Months. |  |
| T406 Map 1 | Sycamore *(Acer pseudoplatanus)* | 10m | 400mm est | Semi-mature | Heavily ivy-covered. | Facilitative: Ivy sever/remove ivy. 6 Months. |  |
| T418  Map 1 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 12m | 400mm est | Semi-mature | Stem lean to north approx 10 degrees from vertical. | Safety: remove elongated limb to north mid crown to improve crown bias. 1 Month. |  |
| T422 Map 2 | Aspen *(Populus tremula)* | 9m | 500mm est | Semi-mature | Squirrel damage in crown. Over footpath. | Safety: reduce whole top of crown by 5m. |  |
| T423 Map 2 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 10m | 600mm est | Semi-mature | Elongated limb to south west creating asymmetry. | Arboricultural: remove limb to south west originating at 4m. 6 Months. |  |
| T424 Map 2 | Monterey pine *(Pinus radiata)* |  | 800mm est | Mature | Sap exudates at crown break with tight union; elongated limbs to west; torn limb at 12m eastern crown. | Safety: aerial inspection of upper crown - particularly top of tertiary limbs 150mm+ for signs of weak or cracking unions. Safety: selectively thin 3/4 secondary limbs from top of crown to reduce asymmetry to west. 6 Months. |  |
| T426 Map 2 | Monterey pine *(Pinus radiata)* | 13m | 600mm est | Semi-mature | Stem lean of approx 10 degrees to north east. | Safety: selectively thin 3/4 secondary limbs approx 200-300mm diameter from upper crown to offset asymmetry. 6 Months. |  |

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| T431 Map 2 | Monterey pine *(Pinus radiata)* | 12m | 450mm est | Semi-mature | Minor dead wood; elongated limb to west over footpath. | Safety: reduce elongated limb to west at 3m over footpath by 2m. 6 Months. |  |
| T444 Map 2 | Monterey pine *(Pinus radiata)* | 13m | 700mm est | Mature | Minor dead wood; two limbs upper north crown split and hanging. | Safety: remove two split limbs upper north crown. 1 Month. |  |
| T447 Map 2 | Monterey pine *(Pinus radiata)* | 10m | 600mm est | Semi-mature | Part of group with meshed crowns; heavily leaning trunk; asymmetrical crown as suppressed by adjacent specimens; exuding sap from multiple branch unions, potentially due to small torsion fractures. | Safety: reduce elongated radial growth to south and west by up to 2m. 1 Month. |  |
| T448 Map 2 | Monterey pine *(Pinus radiata)* | 12m | 450mm est | Semi-mature | Elongated limb to south at risk of failure. | Safety: remove elongated limb to south and adjacent dead limbs/stubs. 3 Months. |  |
| T449 Map 2 | Monterey pine *(Pinus radiata)* | 12m | 500mm est | Semi-mature | Minor dead wood; elongated limbs to south, at risk of failure. | Safety: reduce elongated southern limbs by approx 1m. 3 Months. |  |
| T452 Map 2 | Monterey pine *(Pinus radiata)* | 12m | 340mm est | Semi-mature | Major deadwood. | Safety: remove major deadwood. 6 Months. |  |
| T454 Map 2 | Holm oak *(Quercus ilex)* | 8m | 400mm est | Semi-mature | Squirrel damage in upper crown; multi-stemmed from base. | Safety: reduce low crown over path to width of path; pollard southern limb at 5m. 3 Months. |  |
| T455 Map 2 | Holm oak *(Quercus ilex)* | 9m | 400mm est | Semi-mature | Squirrel damage in crown. | Safety: pollard at 4-5m. 3 Months. |  |
| T460 Map 2 | Mountain Ash *(Sorbus aucuparia)* | 6m | 200mm est | Young | Dead tree. | Safety: Fell to ground level. 1 Month. |  |
| T461 Map 2 | Monterey pine *(Pinus radiata)* | 12m | 800mm est | Mature | Minor dead wood; elongated limb to west over play area. | Safety: deadwood over path And reduce lowest limb to west to upright elbow approx 4m from origin. 6 Months. |  |

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| T464 Map 2 | Monterey pine *(Pinus radiata)* | 10m | 450mm | Semi-mature | Asymmetrical crown as suppressed by adjacent specimens; crown elongating over play area. | Safety: reduce western crown. Reduce most elongated limbs by up to 2.5m to leave balanced crown. 6 Months. |  |
| T476 Map 2 | Austrian Pine *(Pinus nigra ssp. Nigra)* | 14m | 400mm est | Semi-mature | Tight compression fork with evidence of included bark. | Safety: Remove eastern limb to origin. 6 Months. |  |
| T477 Map 2 | Monterey pine *(Pinus radiata)* | 13m | 800mm est | Mature | Recent scaffold tear out; recent crown reduction; asymmetrical crown as suppressed by adjacent specimens; hanging limb southern crown; reinspect in 2 years - check elongated limbs for evidence of stress fractures/resin. | Safety: remove hanger. 1 Month. |  |
| T478 Map 2 | Holm oak *(Quercus ilex)* | 10m | 500mm est | Semi-mature | Significant squirrel damage in crown. | Safety: remove squirrel damaged limbs; rebalance as necessary. Reduce elongated growth over path to width of path. 3 Months. |  |
| T482 Map 2 | Aspen *(Populus tremula)* | 9m | 250mm est | Semi-mature | Significant squirrel damage in crown. | Safety: Fell to ground level. 3 Months. |  |
| T487 Map 2 | Hybrid black poplar *(Populus x euramericana)* | 13m | 450mm est | Semi-mature | Squirrel damaged limb high north east crown. | Safety: reduce by 5m damaged high n/e limb; shorten limb below to balance. 1 Month. |  |
| T488 Map 2 | Sycamore *(Acer pseudoplatanus)* | 10m | 300mm | Semi-mature | Significant squirrel damage in crown. | Safety: Fell to ground level. 1 Month. |  |
| T489 Map 2 | Sycamore *(Acer pseudoplatanus)* | 8m | 200mm est | Semi-mature | Significant squirrel damage in crown. | Safety: Fell to ground level. 1 Month. |  |
| T490 Map 2 | Sycamore *(Acer pseudoplatanus)* | 12m | 280mm est | Semi-mature | Significant squirrel damage in crown; hanger. | Safety: Fell to ground level. 1 Month. |  |

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| T491 Map 2 | Aspen *(Populus tremula)* | 12m | 400mm est | Semi-mature | Drawn-up and suppressed; elongated asymmetrical biased over path. | Safety: Fell to ground level. 3 Months. |  |
| G2 Map 2 | White poplar *(Populus alba), Sycamore (Acer pseudoplatanus), Field maple (Acer campestre) & Blackthorn (Prunus spinosa)* | 10m | Avg 300mm est | Semi-mature | Heavily ivy-covered; canker on White Pop; squirrel damage in crowns White Pops. | Safety: sever ivy at base where heavy. Inspect base of those trees; remove squirrel damaged limbs where over property; Poplars marked with pink paint. Reduce or remove limbs with canker growing toward property. 3 Months. |  |
| G3 Map 2 | Goat willow *(Salix caprea) (x10), Sycamore* *(Acer pseudoplatanus) and Common or Black Elder (Sambucas nigra) (x2)* | 8m |  | Semi-mature | Significant squirrel damage in crowns of Willow; hangers over path. | Safety: Coppice Willows within 5m of path with defects. 1 Month. |  |
| G4 Map 2 | Aspen *(Populus tremula), Co*mmon alder *(Alnus glutinosa), Ash (Fraxinus excelsior), Elder (Sambucus nigra) and Sycamore (Acer pseudoplatanus)* | 10m |  | Semi-mature | Multiple squirrel damaged limbs over path and park in area north of copse of Holm Oak; area now being used as activity space for children - change of usage. | Safety: Coppice leaning Aspen to north of group marked with pink paint. Leaning, elongated, wind exposed; reduce/remove squirrel damaged limb on Holm o  Oak southern end of group - marked pink paint. 3 Months. |  |

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| G5 Map 3 | Hawthorn *(Crataegus monogyna) and Co*mmon or Black Elder *(Sambucas nigra)* | 5m | Max 200mm est | Semi-mature | Adjacent to 8 Bridle Way; shading property. | Facilitative: reduce away from path at front property by 2m. Remove stem painted pink. 6 Months. |  |
| G6 Map 3 | Ash *(Fraxinus excelsior),* Sycamore *(Acer pseudoplatanus), Field maple (Acer campestre), Holm oak (Quercus ilex) & Common Hawthorn (Crataegus monogyna)* | 13m | Max 400mm est | Semi-mature | Encroaching on property; squirrel damage in crown. | Facilitative: reduce crowns of Ash encroaching on property to leave min 3m gap. 6 Months.  Facilitative: fell or coppice all trees neighbouring 9 Bridle Way marked with pink paint. 5 in total. 6 Months. |  |
| G7 Map 3 | Monterey pine *(Pinus radiata), Austrian Pine* *(Pinus nigra ssp. Nigra), Aspen (Populus tremula), Holm oak (Quercus ilex) and Blackthorn (Prunus spinosa)* | 12m | Max 500mm est | Semi-mature | Stems of various trees over hanging adjacent property and car park on western boundary; Holm Oaks overhanging eastern path, some squirrel damage. | Safety: Three Holm Oak and one Poplar stem marked with pink paint. Reduce and remove squirrel damaged limbs over path to east. 6 Months.  Safety: Lift low growth over foot path to 4/5m to leave balanced crown. 6 Months. |  |
| G8 Map 3 (& 4) | Austrian Pine *(Pinus nigra ssp. Nigra)* | 9m | Avg 300mm est | Semi-mature | Ivy clad tree to north east of group. | Facilitative: sever ivy, reinspect. 6 Months. |  |

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| G9 Map 4 | Hybrid black poplar *(Populus x euramericana), Aspen (Populus tremula), Holm oak (Quercus ilex), White poplar (Populus alba), Bird cherry (Prunus padus), Sycamore (Acer pseudoplatanus) & Privet (Ligustrum vulgare)* | 12m | Avg 300mm est | Semi-mature | Heavily ivy clad White Poplars and Elder; multiple trees, mostly White Poplars, ivy shrouding deadwood and defects. | Safety: sever ivy where grown up and obscuring crowns of trees over 200mm diameter and 5-8m height. To facilitate future surveying; remove major loose deadwood over desire lines through wooded area. 6 Months. |  |

**Total cost of works - £ net of VAT / no VAT applicable\***

*Please delete as appropriate*