PART C - Street Tree Technical Guidelines, Details & Specifications

Ashfield Council

Ashfield
Street Tree Strategy
2015

8.0 APPENDICES

8.1 Street by Street Species Listings by Precinct

The following pages provide tables that outline in further detail the proposed street tree species, on a street by street basis, broken up for each precinct.

These tables supplement, and should be read in conjunction, with the relevant precinct maps as provided in Part B - Section 6.0. The final selection and placement of the any street tree shall still be subject to the application of the appropriate site assessment and other relevant siting influences outlined in this document before final planting. If a suitable site can not be found,or reasonably created, within the realties of budget and spatial constraints then a street tree may not be installed.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
01 ASHFIELD TOWN CENTRE							
Beatrice Street		ABC (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Waterhousea floribunda 'Green Avenue' (both sides)***	ABC already installed. Could do perpendicular parking to improve parking and provide tree planting. Could swap over time to new species with similar character to reduce reliance on Brush Box.
Bland Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Lagerstroemia indica (both sides)***	Recommend to pull up part of pavement and install trees and grass or a suitable low maintenance verge garden/hedge instead of full width pavement.
Brown Street		ABC (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Zelkova serrata 'Green Vase' (both sides where not impacted by awnings)***	High voltage on railway side as well as low voltage powerlines. Awnings occur in places. Eastern end with new development. Wider verges in this area provide for tree planting with no overhead power lines (4.0m width). Recently planted Pyrus and Water Gums. Opportunity for larger planting in the future.
Cavill Avenue		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (both sides where space allows and clear of wires)***	Private trees contributing to the streetscape. Verge variable from 2.3 to 1.8
Charlotte Street		ABC (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Zelkova serrata 'Green Vase' (strategic locations only, clear of obstructions)***	Opportunity for a few larger trees at strategic locations.
Frederick Street	Liverpool Road and Railway Line	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Elaeocarpus eumundi (both sides where space permits) Corymbia maculata 'Little Mac', Waterhousea floribunda 'Green Avenue' (only where not under wires and where development is setback from road or adjacent road closure or park, otherwise no street planting suggested)***	Very busy through road with traffic in kerb side lanes. Typically narrow verge restricting planting opportunities. Various street closures and open spaces along street do allow larger tree planting. Verge width therefore variable at these locations. Recommend implementing a consistent defining small upright tree as a linking element with other similar collector roads.
Heighway Avenue	east of Frederick Street	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Syzygium paniculatum***	Short street but with historic Brush Box in-road planting. Should continue with in-road planting but could change to another similar character species to reduce reliance on Brush Box
Hercules Street		ABC (Even)	Medium (3.5-5m)	Fully Paved	***Ulmus parvifolia***	***Ulmus parvifolia 'Todd' or Zelkova serrata 'Green Vase' (both sides)***	Trees planted in kerb extensions and blisters. Very attractive street with good canopy and character.
Holden Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Zelkova serrata 'Green Vase' (both sides)***	Opportunity to plant but extensive services and busy street with traffic lights. Implement ABC and undertake tree planting in strategic location on both sides of street.
Knox Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Zelkova serrata 'Green Vase' (both sides)***	Fully paved on (even) east side of street. Brush Box planted in road to the southern end of street. Busy street with traffic lights, large sections of driveway. Recommend installing ABC in strategic location where tree planting possible.
Liverpool Road	Queen Street and Lapish Ave	OH (Odd)	Medium (3.5-5m)	Fully Paved	***Syzygium paniculatum (balled) Brachychiton acerifolius***	***Zelkova serrata 'Green Vase' (both sides where space and clear of awnings) Washingtonia robusta or Butia capitata (both sides as gateway treatment both sides between Lapish Ave and Miller Ave)***	Syzygium sp. pruned to balls under awnings. Existing Brachychiton are variable in condition. Awnings, services, sight lines, traffic lights limit planting. Buses etc. travelling next to road edge.
Liverpool Road	Queen Street to Carlton Crescent	OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Elaeocarpus eumundi (non wire side or where clear of wires) Corymbia maculata 'Little Mac' (where space and clear of wires) Washingtonia robusta or Butia capitata (at Victoria Street intersection as a gateway)***	Very busy street but potential opportunities for small trees or shrubs under awnings. Where awnings permit and services and sight distances permit suitable high branching trees could be installed to improve amenity.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Liverpool Road	Frederick Street and Lapish Ave	OH (Odd)	Medium (3.5-5m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (non wire side)***	Driveways, services, sight lines, traffic lights limit planting. Buses etc. travelling next to road edge.
Miller Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus Tristaniopsis laurina***	***Koelreutaria bipinnata (both sides)***	Currently has in-road planting but there are a lot of driveways and car parking loss may be unacceptable if further expanded. Recommend to discontinue in-road planting and implement a spreading tree in the verge with ABC as a priority.
Murrell Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Lagerstroemia indica (under wire side only)***	Very narrow verges and private school trees contributing to streetscape. Small trees possible under wires on western side.
Orchard Crescent		None or UG	Small (<1.8-3.5m)	Fully Paved	***Tristaniopsis laurina***	***Koelreutaria bipinnata (both sides)***	Most tree planting potentially on private property. Recommend larger trees be negotiated if new planting ever required or the adjacent car park redeveloped.
Queen Street	Liverpool Road and Norton Street.	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Syzygium paniculatum (balled)***	***Zelkova serrata 'Green Vase' (both sides)*** ***Elaeocarpus eumundi (where there are spaces in awnings)***	Fully paved verge and awnings impacting tree placement. Traffic in kerb side lane. Busy street with traffic lights at Liverpool Road end. Implement ABC as a priority.
Station Street		None or UG	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Zelkova serrata 'Green Vase' (strategic locations only, where clear of obstructions)***	Variable verge width. Station awnings impact on planting locations. Short street. Massive amenity improvement possible with the loss of only two or three carspaces if trees planted in-road.
The Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Waterhousea floribunda 'Green Avenue' (in-road and non-wire side)*** ***Backhousia citriodora (under wires)***	Extensive units within street. Perpendicular parking has been implemented amongst historic in-road planting. Recommend retaining in-road planting parking and ultimate replacement with a similar character species to reduce reliance on Brush Box.
The Esplanade		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Existing Lophostemon confertus to be retained where feasible otherwise replace with Ulmus parvifolia 'Todd' and Zelkova serrata 'Green Vase' (both sides where space and clear of wires)***	Street is a kinking rear laneway. Low traffic volume and small verges, particularly at western end. Wider and variable verges at eastern end.
Thomas Street	Liverpool Road and The Avenue	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Melaleuca bracteata Callistemon viminalis cv.***	***Lagerstroemia indica (both sides)***	Existing trees disfigured by power line clearance pruning. Define street as key collector road and lead in to Ashfield town centre.
Victoria Street	Liverpool Road and Norton Street	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Koelreutaria bipinnata (strategic both sides if ABC undertaken)***	Currently no street planting. Street tree planting desirable in strategic locations.
Wood Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Zelkova serrata 'Green Vase' (strategic locations only, clear of obstructions)***	In-road tree planting possible in vacant areas at ends of car parking. Large amenity improvement possible with inclusion of a few trees clear of wires.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
02 ASHFIELD NORTH							
Albert Parade		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Corymbia eximia (in wider verges leading to centre) Ficus rubiginosa, Ficus microcarpa var. hillii, Syzygium paniculatum (in central park area)***	Central island park created mid street and is well planted with a large variety of larger growing trees. Narrow full paved verge opposite in this central section and no planting recommended on this side.
Alt Street	Railway Line and Parramatta Road	OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	*-*	Narrow verge, fully paved, with narrow carriageway. No planting recommended. Large private trees currently contribute to street character.
Benalla Avenue			Narrow (<1.8m)	Grass & Path	***Lophostemon confertus***	***Elaeocarpus eumundi (both sides in grass strip) Lophostemon confertus (in island only)***	Narrow grass strip for most of street but small area with median island planting.
Bland Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	***Lagerstroemia indica (both sides)***	Very narrow verge, either fully paved or with extremely thin grass strip. Long term vision should be to create as a Crepe Myrtle lined collector road similar to other precincts. Power lines swap to even side west of Julia street. Private trees do currently contribute to streetscape. Busy street, parking critical.
Broughton Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv.***	Unique little cul-de-sac style arrangement narrow at southern end. Pleasant trees and street scape in northern T head. Should continue current planting theme. Narrow parts considered too narrow to plant trees.
Bruce Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda 'Green Avenue'***	Numerous young and semi-mature Waterhousea (Weeping Lilly Pilly) planted in-road and doing well. Should continue and reinforce this theme. Street closed by Park at Liverpool Road/ Elizabeth Street.
Cecil Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides in-road)***	Numerous areas of kerb displacement noted in street. Existing and significant avenue of in-road planting dominated by Brush Box which should be retained and continued.
Chandos Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (alternating with) Robinia pseudoacacia 'Frisia' (both sides when in-road or ABC, otherwise non wire side only)***	Historically an in-road Brush Box avenue but now substantially diluted. Recommend continuing in-road planting and reintroducing Brush Box alternating with a contrasting and suitable deciduous tree. ABC should be implemented.
Charlotte Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv. (both sides)***	Narrow grass strip. Numerous standardised Lilly Pilly currently planted. This presents a maintenance burden and little canopy cover benefit. Recommend more consistent planting of small trees.
Church Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides)***	Currently Callistemon and Melaleucas alternating pattern under wires. Some Elaeocarpus planted on non-wire side. Fully paved verges. Many trees disfigured by power line clearance pruning.
Comet Street			Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Tibouchina lepidota (alternating with below both sides) Backhousia citriodora (alternating with above both sides)***	Very narrow grass verge and short dead-end street. Recommend a more consistent and alternating planting of small trees to fit under overhead wires.
Curt Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Short dead end street with very narrow grass strip, suitable for thin trunked species only. Numerous Crepe Myrtles already planted Recommend continuing and reinforcing.
Eccles Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Corymbia maculata 'Little Mac' (in-road both sides)***	Historical planting of Brush Box and Butia Palms. Brush Box have been very disfigured by power line clearance by pruning. Avenue character now very diluted. Recommend continuing in-road planting but changing over time to new species. Street should be converted to ABC to allow future trees to develop without pruning.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Elizabeth Street	Liverpool Road and Frederick Street	OH (Even)	Narrow (<1.8m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides wherever space and sight distances permit)***	Typically very narrow verge and fully paved. Some opportunity to plant in between Orpington Street and Grainger Avenue where footpath widens to 3.5m. Footpath also widens on western side between Bland and Alt St with mature Brush Box planted but now disfigured by clearance pruning. Recommend a long term program of Crepe Myrtle planting to define as a key collector road similar to Croydon Road, and others, and to improve street amenity.
Federal Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (In-road both sides)***	Dominated by Brush Box with only one recently planted Water Gum. Recommend continuing theme of Brush Box in-road rather than dilute.
Frederick Street	Railway Line and Parramatta Road	OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (both sides where space permits) Corymbia maculata 'Little Mac', Waterhousea floribunda 'Green Avenue' (only where not under wires and where development is setback from road or adjacent road closure or park)***	Major through road, narrow verge. Private trees contribute to streetscape particularly towards Parramatta Road end. Some apartments are set well back and can allow large tree planting until potential future road widening is undertaken. Recommend implementing a consistent defining small upright tree as a linking element with other similar collector roads.
Gower Street	Liverpool Road and Ormond Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Melaleuca styphelioides (both sides)***	Short section of much longer street. Very diverse mix of planting. Recommend making more consistent with suitable small Melaleuca to tie in with southern section of Gower Street in adjoining precinct.
Grainger Avenue	North of Elizabeth Street	ABC (Even)	Small (<1.8-3.5m)	Fully Paved	***Robinia pseudoacacia 'Frisia'***	***Robinia pseudoacacia 'Frisia' (both sides)***	Currently dominated by Robinia which are generally performing well. Street currently ABC'd.
Henry Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Tristaniopsis laurina Elaeocarpus reticulatus***	***Tristaniopsis laurina (both sides)***	Numerous young Elaeocarpus currently on non-wire side. Grass verge strip on wire side but fully paved on other. Recommend converting all street to grass strip to improve planting conditions.
Ilford Avenue		OH (Even)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides)***	Short street with very large verge. Good street, recommend continuing existing planting theme.
John Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Mixed***	***Waterhousea floribunda 'Green Avenue' (in-road north of Alt St, non-wire side only) Elaeocarpus eumundi (east of Alt St, non-wire side only)***	Waterhousea currently planted in-road west of Alt St. Tibouchina planted east of Alt within the verge within in the narrower dead-end portion.
Julia Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Lagerstroemia indica***	***Lagerstroemia indica (both sides, east of Bland St only)***	Trees planted east of Bland Street only. Other areas considered too narrow.
Loftus Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda 'Green Avenue' (in-road and on non-wire side only) Buckinghamia celsissima (under wires, discontinue in-road on wire side)***	Some existing mature and young Butia Palms currently planted within road carriageway. Many trees disfigured by power line clearance pruning.
Margaret Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***-***	Narrow fully paved verge. Very limited planting opportunity.
Nixon Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Callistemon viminalis cv.***	***Corymbia eximia (in-road only if parking reconfigured) Callistemon viminalis cv. (both sides)***	Short street. Could convert to perpendicular parking in part and create in-road planting on eastern non-wire side. Street currently dominated by Callistemon.
Oak Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides)***	Raised and paved parking detail been more recently implemented. Street historically and currently dominated by Brush Box. Recommend continuing and using as a template/model for other future street upgrades in similar streets.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Ormond Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Much of street adjacent significant Park. Fully paved on southern side for short section between Pembroke Street and Bruce Street only. Recommend reinstating grass strip to match other areas of road. Many disfigured trees due to power line clearance pruning. Numerous young Crepes Myrtles planted on park side, some under bigger trees.
Orpington Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides)*** ***Lagerstroemia indica (adjacent Ashfield Park on park side only)***	One of the more important streets within the precinct with significant heritage planting of in-road Brush Box. Recommend continuing and reinforcing. Retain theme of Crepe Myrtle around Ashfield Park perimeter, otherwise Brush Box
Pembroke Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Mixed***	***Lagerstroemia indica (in-road both sides south of south of Ormond)*** ***(no planting proposed adjacent park)***	Narrow path, fully paved opposite park. Nice park outlook. Significant planting within park. Robinia only planted south of Ormond Street and in-road. Should continue in-road planting south of Ormond Street.
Rectory Avenue		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Waterhousea floribunda***	***Waterhousea floribunda 'Green Avenue' (in-road both sides)***	Currently an excellent in-road planting of Waterhousea floribunda (Weeping Lilly Pilly). Recommend continuing and reinforcing. Street currently ABC'd.
Richmond Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Melaleuca bracteata***	***Tristaniopsis laurina (both sides)*** ***Ulmus parvifolia 'Todd' (only new in-road blisters at angled parking)***	Mixture of fully paved verge and verge with grass strip. Angled parking to wider northern end of street. Recommend installing spreading trees in blisters at parking. ABC of street should be prioritised.
Taringa Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (under wires)*** ***Caesalpinia ferrea (opposite wires and within any in-road blisters)***	Very narrow grass strip. Narrow trunked species suitable only. Opportunity for some strategically placed in-road planting blisters.
Tawa Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)*** ***Tibouchina lepidota (both sides)***	Short street with asymmetrical verge. Larger verge located under wires, in part.
Tideswell Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Caesalpinia ferrea (strategically in-road or clear of wires)***	Very aesthetically unpleasing street that would benefit greatly from a couple of strategically placed in-road street trees. Need to negotiate and locate around numerous driveways.
Wallace Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	***Caesalpinia ferrea (2 or 3 strategically in-road only)***	Narrow fully paved verge. Barren street with only small trees in private lots. Recommend undertaking strategic in-road planting at 2 or 3 locations along road.
Webbs Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Alternating planting of Tristaniopsis laurina (in-road or on verge opposite wires)*** ***Zelkova serrata 'Green Vase' (in-road or on verge opposite wires) (Avoid planting directly under wires)***	Historically an in-road Brush Box avenue but now substantially diluted. Recommend continuing in-road planting but changing to a new species over time.
Webbs Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Typically narrow lane type street with no planting opportunities.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
03 ASHFIELD SOUTH							
A'Beckett Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Pyrus ussuriensis (in-road or non-wire side)*** ***Gordonia axillaris (under wires)***	Consistent row of Alnus jorullensis existing. Should break up full paved side with grass and install small trees under wires. Look at possibility of perpendicular or angled parking.
Allibone Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Callistemon viminalis cv.***	***Backhousia citriodora (under wires)*** ***Harpullia pendula (non-wire side)***	Only very short portion of the street within LGA. Recommend planting trees where no wires.
Alma Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda 'Green Avenue' (in-road and non-wire side)***	Quiet street, with historic in-road planting of Brush Box previously dominant. Recommend continuing and reinstating similar character but changing from Brush Box to reduce overall reliance. Suggest major upgrade to treatment similar to Oak St. Discontinue planting under wires in verge.
Arthur Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Narrow one way street, very busy, with narrow verge, minimal planting opportunities. Power lines swap sides at Carlisle Street.
Blackwood Avenue		ABC (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Currently no planting. Verge narrow and fully paved. Limited planting opportunities.
Brunswick Parade		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides on northern entry section),*** ***Ficus rubiginosa, Brachichiton discolour, Corymbia maculata (in median area/park only)*** ***(No planting in narrow fully paved verges)***	Historically significant and uniquely designed street. ABC undertaken in most of street.
Carlisle Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historical in-road planting dominated by Brush Box. Recommend continuing and reinforcing. ABC should be a priority to allow existing, and any new planting, to develop fully.
Clissold Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Narrow street and verge, fully paved. Private trees contribute to streetcape. No planting currently exits or is recommended. Power lines swap to even side west of Queen St.
Farleigh Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historical in-road planting dominated by Brush Box. Recommend continuing and reinforcing. ABC should be a priority to allow existing and new planting to develop fully.
Hampden Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historical in-road planting dominated by Brush Box. Recommend continuing and reinforcing.
Holden Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides)***	Powerlines swap to eastern side of road south of Clissold. Only eastern side within LGA from this point. Asymmetrical verge. Verge width and type changes north of Park Avenue. Existing planting dominated by an alternating planting of Black Tea Tree and Broad Leaf Paperbark. Some minor in-road planting of Brush Box occurs north of Arthur St. Recommend installing grass strip for all sections. Recommend a long term program of Crepe Myrtle planting to define as a key collector road similar to Croydon Road, and others, and to improve street amenity.
Hugh Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historical in-road planting dominated by Brush Box. Recommend continuing and reinforcing. ABC should be a priority to allow existing and new planting to develop fully.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Joseph Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Buckinghamia celsissima (non-wire side south of Arthur St)*** ***Buckinghamia celsissima (under wires north of Arthur St)*** ***Zelkova serrata 'Green Vase' (non-wire side north of Arthur St)***	Grass and path only on section of road north of Arthur St, otherwise fully paved. Numerous young Ivory Curl Trees Flower planted in southern section on non-wire side.
King Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road or on non-wire side verge)***	Historical in-road planting dominated by Brush Box. Recommend continuing and reinforcing. ABC should be a priority to allow existing and any new planting to develop fully.
New Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Very narrow grass strip, will support small and thin trunked tree only.
Norton Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Typically narrow and fully paved verge. Very narrow grass strip, typically less than 1m wide in very eastern end of street. Busy through street. Mixture of houses, some built to boundary line. Private trees often contributing to streetscape. No tree planting recommended.
Palace Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Lophostemon confertus***	***Backhousia citriodora (both sides on lead-in sections to central widened area)*** ***Ficus microcarpa var hillii, Ficus rubiginosa (Centrally with median area only)***	Generous median in centre of street is a historical feature. Could and should plant some very large trees within this area. eg. Figs. Could also plant small tree on lead in sections of street at either end.
Park Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus alternating with Zelkova serrata 'Green Vase' (in-road only or non-wire side).*** ***(Discontinue planting in grassed verges under wires.)***	Good street currently dominated by in-road Brush Box but with numerous interspersed other species. Recommend reinforcing Brush Box with and alternating deciduous species in-road to allow solar access to southern side of street.
Pyrmont Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Callistemon viminalis cv.***	***Callistemon viminalis cv. (both sides)***	Short street, currently dominated by Bottle Brush. Recommend continuing and reinforcing.
Queen Street		OH (Even)	Medium (3.5-5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Many trees disfigured by power line clearance pruning. Numerous younger Crepe Myrtles planted performing well. Major road through precinct. Good sized grass strip for planting, with houses usually set well back. Verge gets noticably narrower north of New Street. Recommend reinforcing and strengthening Crepe Myrtles as a defining element marking this as a key collector road.
Robert Street	Victoria Street and Holden Street	OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Very narrow road and verge, no planting opportunities.
Robert Street	Victoria Street and Prospect Road		Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Narrow grass strip supports only small trees. Numerous young Crepes Myrtles currently planted. Recommend continuing and reinforcing this theme.
Rose Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Caesalpinia ferrea (opposite wires)*** ***Prunus cerasifera 'Nigra' (under wires)*** ***(no planting on eastern leg section).***	Recommend planting Prunus sp. where under wires. Recent Caesalpinia at southern end are performing well. Recommend continuing and reinforcing this theme over time.
Seaview Street	Victoria Street and Prospect Road	OH (Odd)	Medium (3.5-5m)	Grass & Path	***Ficus microcarpa var. hillii***	***Waterhousea floribunda 'Green Avenue' (non wire side only)***	Asymmetrical verge with large figs planted on the larger non-wire side within good sized grass verge. Trees performing well and should be retained for as long as possible. When replacements are required, recommended to use similar character tree but with more appropriate ultimate size with less impacts.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Seaview Street	Victoria Street and Armstrong Street	OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	*-*	Narrow verge and street. Currently no planting. Power lines swap sides at Queen Street. No planting recommended
Shepherd Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Quiet street, with historic in-road planting of Brush Box that was previously dominant. Recommend continuing and reinforcing historic character. Suggest major upgrade to street treatment similars to Oak St.
Somerville Avenue		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	*-*	Short street, fully paved, with narrow verge and very limited planting opportunities. Parking at a premium.
Tintern Road		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	One of the best heritage streets within precinct, with historical in-road planting of Brush Box. Recommend continuing and reinforcing. ABC priority to prevent replacement trees from being disfigured by pruning.
Victoria Square		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Eucalytus paniculata, Araucaria cunninghamii, Ficus rubiginosa (central park area only)*** ***Prunus cerasifera 'Nigra' (both side around the house side verge)***	A very unique street with a very large central median park. Recommend continuing character and planting, particularly large endemic Eucalypts and historic Pines. Recommend consistent small flowering trees on house side in narrow verge so as not to compete with Park.
Victoria Street	Norton Street and Seaview Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Phoenix canariensis***	***Phoenix canariensis (in-road both sides unless overrun with disease)*** ***Buckinghamia celsissima (both sides in verge only, between Palms)*** ***Araucaria cunninghamii (in-road both sides should palms fail in future)***	One of the most significant Phoenix avenue planting within a street in wider Sydney. Some ABC currently installed near hospital. Recommend careful monitoring and maintenance and continuing unless the avenue succumbs to Fusarium Wilt. (If this happens convert to similarly civic-scaled species reflective of the same era of planting)
William Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Pyrus ussuriensis (in-road non-wire side)*** ***Fraxinus griffithi (under wires in southern verge only)*** ***Waterhousea floribunda 'Green Avenue' (non-wire side in southern verge only)***	Good street. Large grass area occurs only on verge in the southern wider portion of street.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
04 CROYDON NORTH / ASHFIELD WEST							
Alexandra Street		OH (Odd)	Small (<1.8-3.5m)	Grass	***Mixed***	***Schinus areira and Corymbia eximia (non-wire side only)***	Asymmetrical verge arrangement. Grass only verge on the non-wire side. Can accommodate good sized trees. Trees mixed but Schinus dominates visually.
Anthony Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Lophostemon confertus (in centre park median only)***	***Corymbia maculata 'Little Mac', Eucalyptus paniculata (randomly grouped in centre park median only & located clear of overhead wires, minimum 1.5m from kerb edge)***	Very narrow verge, fully paved. Centre park median in very eastern end only. Typically too narrow to plant in side verges. Recommend ABC for park area prior to any new planting.
Astwin Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Melaleuca bracteata (non-wire side)*** ***Tristaniopsis laurina (under wires)***	Some trees disfigured by clearance pruning. Very narrow and fully paved verge. Short dead-end street. Improve tree pit preparation for any new planting.
Australia Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (both sides if ABC and kerb realignment implemented otherwise only non wire side)*** ***Tristaniopsis laurina (under wires only if no ABC implemented)***	Potentially relocate and/or realign kerb to allow tree planting like nearby Sunbeam Ave. Recommend installation of ABC to allow spreading trees on both sides without disfiguring pruning.
Banks Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Good street, should continue character. Opportunity for perpendicular parking and formalisation of tree surrounds similar to Oak Street.
Bastable Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Tibouchina lepidota***	***Caesalpinia ferrea (non wires side only)*** ***Camellia sasanqua (under wires)***	Narrow verge and grass strip. Thin trunked and upright tree to be used. Currently dominated by Tibouchina but many not currently performing well.
Bay Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica and/or Harpullia pendula (both sides in verge)*** ***Syzygium paniculatum (a few strategically in-road only)***	Narrow and fully paved verge, with trees planted in small tree pits, many now causing damage to pavement. Improve planting detail for future tree planting. Recommend narrow small and upright tree for future planting. Consider a few strategically located blisters along street to facilitate larger evergreen tree planting such as near intersection with Scott St & Byron St.
Birriga Road		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Melaleuca bracteata***	***Lagerstroemia indica (non-wire side only)***	Existing trees are planted under wires and disfigured. Recommend implementing planting on the non-wire side and eventually discontinuing trees under wires. Review the need for fully paved verge.
Bridges Avenue			Small (<1.8-3.5m)	Fully Paved	***Nil***	***-***	Short dead-end street. Verge fully paved and only 2.0m wide. No planting currently and none recommended. Recommend residents instead are encourage to plant trees within front yards.
Burns Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Ulmus parvifolia 'Todd' (both sides in-road only)*** ***Tristaniopsis laurina (in verge both sides)***	Very wide road. Consider in-road planting blisters
Byron Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Gordonia axillaris (under wires)*** ***Lophostemon confertus (non-wire side only)***	Unique street profile has been employed south of Dalmar Street. Concept is sound and could be expanded to other similar streets to reduce width of traffic lanes, provide parking and space for tree planting.
Cantor Crescent		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Nil***	***Gordonia axillaris, Photinia x fraserii 'Robusta' (both sides)***	Very short and only a small section of street located within LGA. Could plant a small tree for improved canopy cover and shade.
Church Street	Lang Street and Croydon Road.	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (Park frontage only)*** ***Lagerstroemia indica (elsewhere on both sides)***	Bus route, good trees located in adjacent park. Narrow grass strip for planting. Numerous Crepe Myrtle already planted. Recommend continuing and reinforcing Crepe Myrtle, except in front of park.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Church Street	Croydon Road and Frederick Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Bus route. Very narrow strip for planting and supports only small thin trunked tree. Many trees disfigured by powerline clearance pruning. Suggest changing species to Crepe Myrtle to tie in with Church Street west of Croydon Rd.
Croydon Road		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lagerstroemia indica***	***Lagerstroemia indica (both sides)***	Busy collector road. Narrow grass strip for planting supports only relatively small tree. Dominant tree is currently Crepe Myrtle. Recommend continuing and reinforcing as the key theme for this type of collector road.
Dalmar Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv. (under wires)*** ***Corymbia eximia (non-wire side)*** ***Jacaranda mimosifolia (in-road blisters only)***	Historic in-road planting of Brush Box, now mainly to the western end only. Quite diverse mix of planting elsewhere and dominated by Callistemon. Wider verge in the eastern end past Scott Street. Opportunity for blister style planting at strategic locations to improve amenity of street.
Earle Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Koelreutaria paniculata (both sides)***	Small and relatively narrow carriageway. Reasonable sized grass strip for tree planting. Recommend strengthening consistency of avenue planting with small spreading tree.
Edwin Street North		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lophostemon confertus, Waterhousea floribunda 'Green Avenue' (in central median only)*** ***Harpullia pendula (non wire side between Anthony St and Elizabeth St)***	Large central median park that is well planted with a diverse range of large trees.
Elizabeth Street	Edwin Street North and Frederick Street	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Lagerstroemia indica (both sides wherever space and sight distances permit)***	Nothing currently planted, very busy road, with narrow verges. Recommend a long term program of Crepe Myrtle planting to define as a key collector road similar to Croydon Road, and others, and to improve street amenity.
Etonville Parade		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Lophostemon confertus***	***Corymbia eximia (within in-road blisters on both sides)*** ***Mixed biodiversity shrub and tree species along creek side.***	Opportunity for biodiversity corridor planting along the creek side of street. Recommend strategic in-road planting blisters on both sides to improve amenity of street. Power lines swap sides at Banks Street. Recommend ABC to allow taller planting without pruning.
Gregory Avenue		OH (Even)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides)***	Short dead-end street. Very good street, should continue character. Power line positioned near kerb allowing larger trees behind with minimal pruning.
Hammond Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus*** ***Callistemon viminalis cv.***	***Lophostemon confertus (in-road both sides)*** ***Camellia sasanqua (in verge both sides between Brush Box)***	Historic Brush Box planting in-road. Should continue in-road planting and character.
Hedger Ave		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lagerstroemia indica***	***Lagerstroemia indica (both sides)***	Very narrow grass strip. Numerous Crepe Myrtles already planted, which should be continued and strengthened.
Henry Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Koelreutaria paniculata (both sides except in front of Park, where it should be on non Park side of street only)***	Narrow grass strip. Minimal tree planting at present, with many spaces available. Suggest matching in with treatment for Earle Street
Hunt Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Very narrow, difficult to plant successfully. No planting recommended.
John Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Harpullia pendula (non-wire side only)***	Busy through road between Frederick Street and Croydon Road. Narrow and fully paved verges. No planting at present.
Jones Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	-	Very 'laneway-like' street. Asymmetrical verge. Very narrow path, considered too narrow for planting.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Kenilworth Street		OH (Even)	Large (>5m)	Grass & Path	***Mixed***	***Eucalyptus mannifera, Corymbia maculata 'Little Mac', Corymbia eximia (both sides clear of wires) Callistemon viminalis cv. (under wires)***	Heritage palms with interspersed and later installed native plantings which now dominate character. Suggest transplanting palms to targeted gateways within LGA.
Knocklayde Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved		***Caesalpinia ferrea (strategically in-road, or non-wire side only)***	No planting at present. Suggest a few strategic trees planted in-road on non-wire side to improve amenity of street with minimal parking loss.
Lang Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Tristaniopsis laurina***	***Tristaniopsis laurina (under wires) Brachychiton discolor (at Park frontage only)***	Only eastern half of the street controlled by Ashfield Council. Figs dominant at Centenary Park frontage. Figs in only fair condition and will require replacement in the foreseeable future.
Lucy Court			Narrow (<1.8m)	Grass	***Nil***	***Hapullia pendula (non-wire side only, within grass strip)***	Small road with narrow verge but non-wire side is grass only and could be planted with suitable small tree to improve amenity and provide canopy cover.
Lucy Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Photinia x fraserii, Koelreutaria paniculata (under wires) Koelreutaria bipinnata (non-wire side)***	Narrow and fully paved verge. Many trees disfigured by powerline clearance pruning.
Mackay Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Good street. Recomennd continuing and reinforcing character.
Page Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Murraya paniculata (under wires) Zelkova serrata 'Green Vase' (non wire side)***	Parking allowed on one side of street only. Recommend deciduous tree on southern side of street and small tree under wires.
Parramatta Road	Frederick Street and Lang Street		Small (<1.8-3.5m)	Fully Paved	***Nil***	-	Views, driveways, traffic lights, signage and awnings. Most areas fully paved with some small areas of grass strip. Currently no planting. Constraints considered too significant to implement worthwhile planting until West Connex completed.
Queen Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Callistemon viminalis cv. (near oval) Lagerstroemia indica (at eastern end both sides).***	Powerline swaps sides at Jones St. Trees clear of powerlines. Strong row of Lagerstroemia at eastern end. Cupressus currently dominant along edge of oval. Next to oval verge is all grass, but only 2m wide. Numerous young Callistemon planted along Oval verge. Reasonably busy street.
Ranger Road		OH (Even)	Large (>5m)	Grass & Path	***Mixed***	***Eucalyptus mannifera, Corymbia maculata 'Little Mac', Corymbia eximia (both sides clear of wires) Callistemon viminalis cv. (under wires)***	Historical planting of palms. Very generous grass verge width would support large trees. Larger trees now overwhelming the historical palms. A lot of Euc. nicholii in street. Later installed native plantings now dominate character. Suggest transplanting palms to targeted gateways within LGA.
Scott Street			Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Jacaranda mimosifolia (in road only) Waterhousea floribunda 'Green Avenue' (in road only) Lagerstroemia indica (in verges both sides)***	Recent in-road planting of Lagerstroemia and Waterhousea in western end. Recommend installation of ABC to allow existing planting to mature. Recommend larger trees when clear of wires.
Sunbeam Avenue		OH (Odd)	Large (>5m)	Grass & Path	***Mixed***	***Angophora costata (both sides if ABC implemented otherwise only non wire side) Tristaniopsis laurina (under wires only if no ABC implemented)***	Recommend installation of ABC to allow spreading trees on both sides without disfiguring pruning. Verge width accommodates larger more spreading planting.
Vine Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	***Robinia pseudoacacia 'Frisia'***	***Robinia pseudoacacia 'Frisia' (in road both sides)***	Quaint dead-end and short street. In-road planting already exists. Suggest potential expansion and continuation of in-road tree pits to improve amenity and canopy cover.
West Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	-	No planting in street, very narrow. Private trees currently contribute to the streetscape.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
05 CROYDON SOUTH / CROYDON PARK							
Arthur Street	Greenhills Street and Milton Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in road both sides)*	Historic in-road planting, performing well. Recommend continuing and reinforcing.
Beatrice Street	Milton Street North and Frederick Street	ABC (Even)	Small (<1.8-3.5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in-road both sides)*	Short dead end street with existing in-road planting. Should continue with similar character species. Could turn parking to perpendicular parking with treatment similar to Oak St.
Carshalton Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Callistemon viminalis cv., Tristaniopsis laurina (alternating both sides)*	Narrow grassed strip. Numerous young Elaeocarpus currently planted.
Cromwell Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Tristaniopsis laurina, Camellia sasanqua (alternating, both sides)*	Very narrow grass strip available for planting. Numerous recent plantings of Elaeocarpus on the non-wire side. Street supports only small and thin trunked species.
Dougan Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	*Tibouchina lepidota*	*Tristaniopsis laurina (both sides)*	Strong avenue planting of Tibouchina. Many not doing very well, suckering and dieback evident.
Edwin Street South		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Callistemon viminalis cv. (both sides in verge between in-road bays)* *Ulmus parvifolia 'Todd' (in-road only)*	Palms largely overwhelmed by other street planting. Reasonable grass strip for planting. Recommend ultimately transplanting palms to targeted gateway sites and installing larger spreading tree to create new character and increase canopy cover.
Forbes Street		OH (Odd)	Large (>5m)	Grass & Path	*Mixed*	*Sapium sebiferum (under wires but ABC a priority)* *Syzygium paniculatum, Waterhousea floribunda 'Green Avenue' (non-wire side).*	A lot of semi-mature Chinese Tallow Tree. ABC a priority to allow them to develop properly. Large verge, would support medium sized trees easily.
Georges River Road	Greenhills St and Milton St	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Nil*	*Elaeocarpus eumundi (both sides)*	No tree planting at present. Main road with kerb side traffic. Recommend introducing a consistent tree planting character with a manageable upright tree forming part of the wider collector road definition. ABC should be implemented over time to allow trees to develop.
Greenhills Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Largerstroemia indica and Camellia sasanqua (alternating under wires)*	Only eastern side controlled by Council. Narrow verge and overhead power lines. Numerous young Crepe Myrtles planted on both sides. Should continue and strengthen this theme. Verge widens north of Mills Street. Street is a bus route.
Hay Street		OH (Even)	Large (>5m)	Grass & Path	*Butia capitata*	*Butia capitata (both sides, ABC a priority to retain palms)* *Waterhousea floribunda 'Green Avenue' (at northern end / entry of street only)*	Very wide verge. Historic avenue of Palms. Now grown to height conflicting with wires. ABC should be a high priority. Should continue palms as historic reference but also introduce some canopy trees in strategic locations at northern end of street. Only northern end of street within the LGA.
Heighway Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path		*Koelreutaria bipinnata (in road only)* *Tristaniopsis laurina (non-wire side in narrow area and elsewhere on both sides in verge)*	Street narrows at the eastern end. Recommend small tree on non wire side only. Transplant Palms to targeted gateway sites within LGA. No planting recommended under wires in narrow sections.
Highbury Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Caesalpinia ferrea (non-wire side only)* *Prunus cerasifera 'Nigra' (under wires)*	Very narrow grass strip avaialble for planting. Recommend high branching narrow trunked trees only.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Holborow Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Substantial portions with historical Brush Box planting in-road. Should continue character and in-road planting theme. Trees planted directly under wires are frequently disfigured by pruning, should discontinue and focus on in-road. Most houses with driveways and off street parking opportunities.
Leopold Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus and Sapium sebiferum (alternating in-road both sides)***	Currently in-road planting to wire side and at very northern end. Significant row of Sapium. Many trees disfigured by clearance pruning. Houses serviced by rear lanes, with minimal driveway conflicts. Recommend in-road planting be continued and expanded.
Lion Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Koelreutaria bipinnata (strategic in-road opposite wires)***	Verge only 2.0m wide, fully paved. No planting currently within street. Recommend very strategic in-road planting at street ends and one in the middle adjacent mid-block park.
Liverpool Road		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (non wire side only where clear of other obstructions)***	Overhead power, space and sight distances to lights and signage a significant issue along street. No planting currently. Typically fully paved but some minor areas of grass strip. Private trees do contribute to streetscape.
Mills Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Camellia sasanqua (both sides)*** ***Eucalyptus paniculata (within road closure area)***	Very short street, with road closure containing larger trees. Numerous driveways. Only a narrow strip for planting in street.
Milton Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Elaeocarpus eumundi (non wire side only or where otherwise clear of wires)***	Some road widening areas allow larger trees. Planting mainly southern end. Power lines swap to even side in southern section past Georges River Road.
Milton Street North		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Callistemon viminalis cv. & Melaleuca bracteata***	***Callistemon viminalis cv. (non-wire side)*** ***Xanthostemon chrysanthus (under wires)***	Trees affected by powerline clearance pruning. Reasonable grass strip for planting. Strong Bottle Brush theme which should be reinforced. Recommend continuing on non-wire side.
Norton Street	Milton Street and Carshalton Street	OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***Corymbia eximia (strategic in-road locations only)***	Narrow verge, fully paved. No planting at present. No planting recommended except for strategically positioned in-road.
Paisley Road			Small (<1.8-3.5m)	Grass & Path		***Lagerstroemia indica (under wires)*** ***Zelkova serrata 'Green Vase' (railway side)***	Plane Trees installed along railway line. Suggest progressive removal of Planes as they are likely to cause extensive pavement damage in future. Replacements should integrate better tree pit preparation. Numerous young Lagerstroemia planted under wire side. Should continue this theme.
Thomas Street	Frederick street and Dickinson Avenue	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Largerstroemia indica (both sides)***	Main thoroughfare. Narrow fully paved verge with powerlines. Could have in-road planting at a few very strategic blisters. Street widens at the far western end. Recommend removing paving in the road side verge strips at this point. Recommend looking at instating grass strip for entire length to improve planting prospects and aesthetics.
Walter Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Melaleuca bracteata (both sides, ABC a priority)***	Short street, narrow grass strip. Recommend ABC installation to allow full development of trees.
Watson Avenue		OH (Odd)	Large (>5m)	Grass & Path	***Mixed***	***Syncarpia glomulifera, Corymbia maculata, Eucalyptus paniculata, Glochidion ferdinandi (non wire side only)*** ***Backhousia citriodora (under wires)***	Room for large trees. Asymmetrical verge, with large area on non-wire side. Private trees also contributing to streetscape. Rear access from street for houses fronting the parallel Dougan Street.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Wetherill Street	Liverpool Rd and Norton Street	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda 'Green avenue' (in-road and non-wire side)*** ***Xylosma senticosum (under wires)***	Short street with Liverpool Rd end closed to traffic. Currently some remnant in-road planting, but very diluted. Opportunity to implement angled or perpendicular parking with new in road planting and smaller trees placed under wires.
Wetherill Street	Liverpool Road and Thomas Street.	OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Syzygium paniculatum***	***Lagerstroemia indica (both sides)***	Planting under wires but none on non wire side. Recommend ABC installation as a priority to allow existing trees to mature without further disfiguring pruning. New planting should implement better tree pit preparation.
Yabsley Avenue		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Syzygium paniculatum (in road on wire side, and non wire side)*** ***Magnolia grandiflora 'Exmouth' (in verge both sides)***	Short dead-end street. Very wide street. Power lines ABC'd. Some young Magnolia planted under wires. Good opportunity for in-road planting of larger trees.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
06 CROYDON VILLAGE							
College Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***-***	No existing street trees. None recommended due to width of path.
Edwin Street North		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Lagerstroemia indica***	***Lagerstroemia indica (in-road only on both sides)***	Recently installed Crepe Myrtles within blisters.
Elizabeth Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Lagerstroemia indica***	***Lagerstroemia indica (in-road both sides)***	One Crepe Myrtle installed at intersection with Edwin Street North. Continue in-road blisters for full extent of 'village centre'.
Elizabeth Street	West of Edwin Street North.	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Melaleuca quinquenervia***	***Elaeocarpus eumundi (both sides wherever space permits)***	Narrow street and verge but could have more trees planted if ABC implemented.
Hennessy Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Lagerstroemia indica***	***Lagerstroemia indica (both sides except under awning)***	Potted plants only under awnings. Footpath only 2m wide.
Hordern Parade		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***-***	No planting existing. Very low wires. No planting recommended.
Railway Street		ABC (Odd)	Narrow (<1.8m)	Fully Paved	***Nil***	***-***	No planting existing. Very narrow. No planting recommended.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
07 DOBROYD POINT							
Alt Street	Martin Street and Waratah Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (both sides if kerb realigned, otherwise on non-wire side only)***	Massively wide carriage way. Recommend realigning kerb. Alt street on other side of Martin Street is much narrower in adjoining precinct. Recommend implementing angled parking on the wire (high) side of street.
Barton Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Harpullia pendula, Tristaniopsis laurina (in-road and verge both sides)***	Previous historical planting of in-road Brush Box planted but now greatly diluted. Recommend retaining in-road planting where possible and maintaining the character with new species reflective of Brush Box.
Boomerang Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica, Buckinghamia celsissima (alternating pattern on both sides, except in front of Park)***	Numerous younger Crepe Myrtle doing well. Melaleucas often disfigured by power line clearance pruning. Recommend alternating future planting with a small spreading evergreen tree of similar scale. Verge width, cycleway and parking lane permit spreading tree.
Chelmsford Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Harpullia pendula (non wire side)*** ***Buckinghamia celsissima (under wires)***	Historical in-road planting of Brush Box but now substantially diluted. Recommend changing to new species with similar character but planted within the verge areas as existing Brush Box decline and require replacement.
Crane Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historical in-road planting of Brush Box now becoming diluted. Recommend reinforcing and continuing with improved tree pit preparation for any new planting.
Crescent Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides in verge)*** ***Zelkova serrata 'Green Vase" (in median)***	Very wide street. Recommend potential median strip creation with central tree small to medium sized planting depending on width able to be achieved. Recommend reinforcing and continuing Crepe Myrtle already extensively planted in verges.
Dalhousie Street	Martin and waratah	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Tristaniopsis laurina alternating with Lagerstroemia indica (both sides)***	Planting of trees under wires. Recommend also planting on non-wire side unless services prevent. Recommend investigating reinstatement of grass verge strip rather than maintaining as fully paved to improve tree performance and street aesthetics. Cycle and parking lane permit spreading but low tree under wires.
Dobroyd Parade		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora hispida, Melaleuca styphelioides, Banksia integrifolia, Elaeocarpus reticulatus (both sides)*** ***Angophora costata (in-road or where clear of overhead wires)***	Views to harbour. Very wide street. In-road planting opportunities.
Dobroyd Parade/City West Link		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Melaleuca bracteata (in grass verge clear of wires)*** ***Murraya paniculata (hedge between service road and City West Link)*** ***No planting in front of Robson Park*** ***Maintain suitable mixed native planting along harbour edge/ cycleway***	Major arterial road along harbour front. Mostly fronting open spaces. At southern end there is a split 'service' road arrangement. Should plant hedging screen along service road and plant additional trees in grass verge. No overhead wires in some areas permit medium sized trees.
Dudley Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Harpullia pendula (in road)*** ***Camellia sasanqua (both sides in verge between in-road trees)***	Dominated by existing historic Camphor Laurels and other period plantings. Recommend continuing and reinforcing historic association and character but with new planting as existing trees age and fail.
Empire Street	Waratah Street and Martin Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Tristaniopsis laurina, Pyrus ussurensis (alternating planting on both sides in verge)***	Historical in-road planting now very depleted. Very diverse tree planting mix. Recommend discontinuing in-road planting. Planting should match in with planting undertaken in adjoining Haberfield precinct. ABC should be a priority to allow trees to develop fully.
Hawthorne Parade	Dobroyd Parade and Barton Avenue	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora hispida, Synoum glandulosum (under wires)*** ***Angophora costata, Eucalyptus robusta (in-road or where clear of overhead wires)*** ***Casuarina glauca (in park areas only)***	Extensive native planting in linear park to eastern side of street. Numerous young Crepe Myrtles planted. Recommend street be included and planted as part of biodiversity corridor.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Kingston Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides)*** ***Camellia sasanqua, Prunus cerasifera 'Nigra' (in verge both sides between in-road trees)***	Historic in-road planting of Brush Box dominant. Recommend continuing and reinforcing rather than allowing any further dilution.
Learmonth Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (in-both sides or in verge opposite wires when in-road not possible)*** ***Angophora hispida (under wires if in verge and in-road not possible)***	In-road planting existing. Mixture of trees including Brush Box, Figs and Camphor Laurels. Figs declining in health. Soil conditions very shallow.
Loudon Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in road both sides)***	Historic in-road dominated by Brush Box. Very good street. Recommend reinforcing and continuing species and character, with improved tree pit design and preparation for any new planting. Recommend discontinuing tree planting under wires in verge.
Martin Street	Ramsay Street and Dobroyd Parade.	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora hispida, Synoum glandulosum (under wires)*** ***Angophora costata, Angophora floribunda, Eucalyptus robusta (in-road or where clear of overhead wires)*** ***Casuarina glauca, Acacia binervia (in park areas only)***	Could vastly narrow road and plant numerous trees within verge and Park. Recommend street be included and planted as part of biodiversity corridor.
Martin Street	Dalhousie Street and Dobroyd Parade.	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Cupaniopsis anacardiodes, Pyrus ussuriensis (alternating pattern on both sides)*** ***Melaleuca leucadendra (within in-road blisters only)***	Very diversely planted at present, with very small trees in many areas. Recommend trees that are able to provide more canopy. Large Melaleucas frequently causing infrastructure damage. Some historic palm planting to northern end now conflicting with wires. Recommend they be transplanted to targeted gateway sites within LGA. Recommend long term development of alternating planting of deciduous and evergreen medium sized trees. Melaleuca leucadendron retained as in-road planting at intersections with kerb widenings.
Miller Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Butia capitata (in road both sides)*** ***Gordonia axillaris (in verge both sides)***	Very consistent planting of historic in road Butia Palms in danger of becoming very visually diluted by other larger street planting. Recommend retaining and strengthening the palms possibly obtained from elsewhere within LGA if they decline and retaining as in-road planting. Recommend inter-planting on the verges with a low but more spreading canopy tree. Other trees to be removed as they age or fail.
Minto Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides or in verge when not under wires)***	Historical in-road planting of Brush Box but now becoming substantially diluted. Given this streets' position within the precinct, it is recommended to retain and reinforce as an in-road Brush Box street.
Mortley Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road or in verge on Park non-wire side)*** ***Gordonia axillaris (under wires)***	Historic in road Brush Box planting along Robson Park side. Recommend reinforcing and continuing them but any new trees could be included within park verge. Recommend small trees under wires.
Rawson Street	Waratah Street and Martin Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historic in-road planting of Brush Box still dominant. Recommend reinforcing and continuing. Recommend ABC be implemented to prevent disfiguring pruning and improving tree pit design and location for any new planting.
Tillock Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda (in-road both sides south of Learmonth St)*** ***Cupaniopsis anacardioides (both sides in verge north of Learmonth St)***	Change in street character occurs north of Learmonth Street. Recommend reinforcing and continuing historic in-road planting theme south of Learmonth Street.
Turner Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Brush Box in-road the dominant tree but with many Water Gums now installed to the western end. Recommend preserving and reinforcing original Brush Box theme.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Waratah Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Xylosma senticosum (both sides)*** ***Butia capitata (at key intersection nodes)***	No current or historic in-road planting on this street. Busy collector road linking to east and western sides of peninsula. Recommend introducing a strong theme planting of a small spreading tree to reinforce importance of street to precinct. Recommend introducing a feature palm planting at key intersections. (Could be transplanted from streets where old palm avenues are diluted and planned to be replaced).

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
08 HABERFIELD							
Allum Street			Narrow (<1.8m)	Fully Paved	***Nil***	-	Narrow verge and street, minimal opportunities for planting.
Alt Street	Ramsay Street and Martin Street	ABC (Odd)	Large (>5m)	Grass & Path	***Mixed***	***Ulmus parvifolia 'Todd' (both sides)***	Short section of much longer street. This section dominated by reasonably unique very wide grass verges that would support broad spreading trees. Power lines already installed with ABC. Recommend replacing the few existing palms over time with canopy trees to create an arched canopy over road. Could be one of the great sections of street in the future within the LGA.
Alt Street	Ramsay and Parramatta Road	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road wire side only)*** ***Harpullia pendula (in grass verge non wide side)***	Reasonable remnants of previous historic in-road planting of Brush Box. This character now diluted. Many trees planted beneath wires disfigured by clearance pruning. Recommend reinforcing and continuing in-road Brush Box theme on wire side only and implementing a more consistent planting in the verges on non-wire side with similar character but smaller tree.
Bland Street	Ramsay Street and Parramatta Road	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Many trees disfigured by power line clearance pruning. Numerous Crepe Myrtles planted and performing well. Should be created as a Crepe Myrtle lined collector road similar to other precincts.
Chandos Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Cupaniopsis anacardioides and Melaleuca bracteata (alternating non wire side)*** ***Callistemon viminalis cv. and Gordonia axillaris (alternating on wire side)***	Some isolated remnants of previous historic in-road planting of Brush Box. This character is now very diluted with only a couple left in-road at far southern end. Many trees planted beneath wires disfigured by clearance pruning. Recommend discontinuing in-road Brush Box theme and implementing more consistent planting within verges.
Cove Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Glochidion ferdinandi (both sides with ABC a priority)***	Short street, with some remnants of historic in-road planting of Brush Box, although now substantially diluted. Recommend discontinuing in-road but installing similar character native tree to both sides and implementing ABC to continue historic character.
Dalhousie Street	Winchcombe Avenue and Parramatta Road	OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Tristaniopsis laurina alternating with Lagerstroemia indica (both sides)***	Power lines swap sides at various points. Very diverse street planting at present. Major collector road along ridge through precinct. Recommend trying to define as principle collector with more consistent planting theme. Recommend alternating planting of two small, to medium trees, that can be kept under wires.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Dalhousie Street	Ramsay Street and Barton Avenue	OH (Odd)	Small (<1.8-3.5m)	Fully Paved	*Tristaniopsis laurina*	*Tristaniopsis laurina alternating with Lagerstroemia indica (both sides)*	Limited planting at present. Major collector road along ridge through precinct. Recommend trying to define as principle collector with more consistent planting theme. Recommend alternating planting of two, small to medium trees, that can be kept under wires. Recommend converting from fully paved to grass strip for improved tree performance and aesthetics.
Deakin Avenue		ABC (Even)	Medium (3.5-5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in-road both sides)*	Far western end fully paved, similar to Dickson St. Historic in-road planting of Brush Box. Recommend reinforcing and continuing.
Denman Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Lophostemon confertus (in-road both sides)* *Lagerstroemia indica (in verge between Brush Box where space permits)*	Dominated by historic in-road planting of Brush Box. Many Crepe Myrtle now planted in verges between the Brush Box.
Dickson Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Lagerstroemia indica*	*Lagerstroemia indica (both sides)*	Commercial area and fully paved at very western end. Dominated by Crepe Myrtles that are performing well. Recommend continuing.
Dobroyd Parade	Cove Street and Parramatta Road	ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Glochidion ferdinandi, Banksia integrifolia, Acmena smithii, Angophora costata, Eucalyptus robusta (non-wire side only)* *Acmena simithii var. minor (under wires)*	Short street connecting to the nearby Open Space. Recommend having some suitable small trees planted on southern side under power lines. Maintain mixed native trees in open space next to car parking.
Empire Street	Ramsay Street and Martin Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Lophostemon confertus (in road both sides at southern end)* *Tristaniopsis laurina, Pyrus ussurensis (elsewhere alternating planting both sides in grass strip)*	Historic in-road planting dominated by Brush Box but with other species now planted in grass strip. Recommend reinforcing and continuing with improved tree pit preparation for any new tree planting. Together with the section in Dobroyd Point Precinct this represents an important historic street. Recommend ABC as a priority to allow trees to fully develop without pruning.
Forrest Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in road both sides)*	Historic in-road planting of Brush Box. Recommend reinforcing and continuing with improved tree pit preparation for any new tree planting.
Gillies Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in-road both sides)*	Reasonable remnants of previous historic in-road planting of Brush Box. Recommend reinforcing and continuing in road Brush Box theme.
Haberfield Road		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Lophostemon confertus*	*Lophostemon confertus (in-road both sides)*	Historic in-road planting of Brush Box. Recommend reinforcing and continuing current character with better tree pit preparation for future planting.
Hawthorne Parade	Parramatta Rd and Marion Street	OH (Odd)	Small (<1.8-3.5m)	Grass & Path		*Corymbia maculata (in road only)* *Acacia binervia (non wire side only)* *Tristaniopsis laurina, Synoum glandulosum, Banksia integrifollia (in verge both sides)*	Historic in-road planting of Brush Box but now substantially diluted in character and extent. Road runs parallel and near to Greenway Corridor. Recommend continuing in-road planting where it is retained but with locally occurring species able to clear wires, elsewhere smaller native species.
Hawthorne Parade	Marion Street and Barton Avenue	OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Callistemon viminalis cv., Synoum glandulosum (under wires)* *Angophora costata, Eucalyptus robusta (in-road or where clear of overhead wires)* *Ficus rubiginosa, Waterhousea floribunda 'Green Avenue', Casuarina glauca (Park side)*	Long street running adjacent and parallel to Hawthorne Canal, and part of Greenway Corridor. Park planting should provide scope for larger trees to contribute to streetscape such as Figs, Melaleucas and Casuarinas. Recommend smaller native tree under wires, large trees on non wire side set back from kerb edge.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Kingston Street	Ramsay Street and Barton Avenue	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Schinus areira and Lophostemon confertus***	***Waterhousea floribunda 'Green Avenue' (in-road both sides)*** ***Tristaniopsis laurina (in verge non-wire side only where not possible to maintain in-road)***	Dominated by Pepercorn Trees in southern end. Many not performing very well. Character changes at kink in road from Brush Box to Peppercorn. Recommend retaining historic character and in-road planting but converting to similar new species to reduce over reliance on Brush Box. Discontinue planting in verge under wires.
Logan Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Waterhousea floribunda (in road both sides)*** ***Tristaniopsis laurina (in verge both sides between in-road planting)***	Short and quiet street, dominated by historic in-road Brush Box planting but now diluted with other species. Recommend maintaining in-road planting with better tree pit preparation for future planting and ultimate conversion to similar character species to reduce over reliance on Brush Box. Recommend ABC implementation.
Lord Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Banksia serrata (under wires)*** ***Eucalyptus haemastoma (non-wire side)***	Power on northern side. Very short connecting street with very diverse current planting. Trees under wires disfigured by power line clearance pruning.
Marion Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv., Synoum glandulosum, Tristaniopsis laurina (both sides)*** ***Corymbia eximia, Eucalyptus haemastoma (non-wire side only)***	Short section of street with LGA leading into Leichhardt. Adjacent to Greenway Corridor. Recommend maintaining diverse native community of street trees.
Nicholls Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides)***	Very nice street character, with strong community involvement. Historic in-road planting of Brush Box, most in good condition. Some replacement planting using other species. ABC should be a priority for this street to reduce disfiguring pruning.
Northcote Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Angophora costata (in road both sides)*** ***Murraya paniculata (in grass verge both sides)***	Street should be targeted for replacement and upgrade program and ABC installation. Historic planting of in-road Brush Box but many now in poor condition. Recommend retaining character and in-road planting but changing species to reduce over reliance on Brush Box, similar to nearby Walker Street.
O'Connor Street	Ramsay and Parramatta Road	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historic in-road planting of Brush Box, most in good condition. One of the longer streets in this precinct retaining this character. Recommend reinforcing and continuing.
O'Connor Street	Ramsay Street and Barton Avenue	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in road both sides)***	Currently diverse street planting, originally Brush Box in-road planting that has been substantially diluted. Butia Palms also common on one side, with Brush Box on non-wire side. Palms now conflicting with wires. Together with Kingston and Kensington Streets, this could be one of the longest historical in-road planting streets reflective of early Haberfield. Recommend reinforcing and continuing in-road character and reinstating as a prominent Brush Box Street. Recommend discontinuing planting in verge under wires and gradual transplanting of Palms and replacement with Brush Box
Percy Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv., Synoum glandulosum, Tristaniopsis laurina (both sides)*** ***Corymbia eximia, Eucalyptus haemastoma, Acacia binervia (non-wire side)***	Very diverse planting currently in street. Street located near Greenway Corridor. Recommend maintaining diverse native community of trees.
Ramsay Street		ABC (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Caesalpinia ferrea (non wire side or both sides where power ABC'd or undergrounded)*** ***Lagerstroemia indica (under wires)***	Major through road. Power undergrounded between Wattle Street and Walker Street. ABC implemented from Walker Street to Alt Street. Numerous young Crepe Myrtle planted in some places. Recommend long term program of ABC implementation to allow larger trees to be planted without disfiguring pruning.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Rawson Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in road both sides)*** ***Harpullia pendula (non wire side in grass strip where there are no in-road opportunities)***	Historic in-road planting dominated by Brush Box but a few other species now planted in grass strip. Recommend reinforcing and continuing with improved tree pit preparation for any new tree planting. Together with sections in Dobroyd Point precinct this represents an important historic street.
Rogers Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Dominated by historic in-road Brush Box planting. Numerous young Brush Box replacements undertaken. Numerous other species planted in places within verges. Recommend reinforcing and continuing Brush Box theme.
Sloane Street	Ramsay Street and Parramatta Road	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Harpullia pendula (both sides)***	Major through road from Ramsay Street, inner west suburbs and across Parramatta Road. Some remnants of historic in-road Brush Box but now substantially diluted. Recommend discontinuing in-road in this section and installing medium sized evergreen trees in verge with ABC implemented on wire side as a priority.
St Davids Road		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Syzygium paniculatum (in-road when on wire side, in verge on non wire side)***	Historical in-road Brush Box planting now quite diluted in character. Good sized grass strip for planting. Recommend continuing character but with new species and discontinue in-road planting over time, except on the wire side. Discontinue verge planting under wire side.
Stanton Road		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historic in-road planting of Brush Box and Butia Palms. Many trees not performing well and disfigured by power line clearance pruning. Recommend reinforcing and continuing current character but with better tree pit preparation for future planting.
Tinana Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Dominated by historic in-road Brush Box planting. Numerous young replacements undertaken. Some other species planted in sections within verge. Recommend reinforcing and continuing Brush Box theme.
Tressider Avenue		OH (Odd)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides in verge)***	One of the best streets in the precinct. Wide verge with excellent continuity of historic Brush Box. One of a handful of streets where trees are not in-road. Recommend reinforcing and continuing as an important historical record of period planting. ABC should be a priority over any new planting.
Walker Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (in road only)*** ***Murraya paniculata (in grass verges both sides)***	Some reasonable remnants of previous historic in-road planting of Brush Box. This character now very diluted, many not performing well. Many trees planted beneath wires disfigured by clearance pruning. Recommend reinforcing and continuing in-road planting but implementing a taller native tree, able to clear wires, similar to nearby Northcote Street.
Wattle Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Elaeocarpus eumundi (where unaffected by overhead wires and grass strip exceeds 1m in width)***	Major through road with vehicles travelling in kerb side lane. Unique pocket planting of larger native trees exists within island at Parramatta Road intersection. Some sections with power under grounded near Ramsay Street intersection.
Winchcombe Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Dominated by in-road Brush Box but with also somewhat random recent plantings of Water Gum and Peppercorns. Recommend reinforcing and continuing as a Brush Box themed street.
Wolseley Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Callistemon viminalis cv., Acmena smithii var. minor (under wires)*** ***Acmena smithii, Syzygium paniculatum, Harpullia pendula (in road and non wire side)***	In-road and verge planting of semi-mature Lilly Pilly. Most performing adequately. ABC needed to be implemented to allow them to mature properly. Street parallel to Iron Cove Creek and should be planted with a mix of locally native species
Yasmar Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Callistemon viminalis cv.***	***Callistemon viminalis cv. (both sides)***	Relatively short street with good sized grass verge for planting. Dominated by Callistemon which should be continued as theme.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
09 HABERFIELD VIILLAGE							
Dalhousie Street	Dickson Street and Winchcombe Avenue	ABC (Even)	Small (<1.8-3.5m)	Fully Paved	***Nil***	***Butia capitata (in-road median)*** ***Butia capitata (both sides where awnings and services permit)***	Awnings affecting much of street and some ABC already undertaken. Look at median planting on approaches to intersection with Ramsay Street with transplanted Butia Palms to announce arrival at Village Centre and elsewhere where power line, underground services and awnings permit.
Ramsay Street	Gillies Avenue & Kingston Road	ABC (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Butia capitata (in-road medians, blisters and roundabouts)*** ***Lagerstroemia indica (both sides where awnings, services and power lines permit)***	Historic Camphor Laurels located in adjoining car park contribute to character. Recent Butia Palms planted in blisters and at roundabout announcing arrival at Village Centre. Currently some clipped shrubs etc with Village Centre blisters. Numerous young Crepe Myrtles planted in newly developed areas at western end. Recommend reinforcing Palm Character as Village Centre theme using palms transplanted from streets where palms have now become diluted or are impacting with OH power.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
10 HURLSTONE PARK							
Armstrong Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Very wide street, some traffic calming devices with blisters. Good width to grass verge. Many trees disfigured by power line clearance pruning. Recommend low growing but spreading tree to both sides. Recommend implementing Crepe Myrtles to define this street as a collector road.
Ashford Street		OH (Odd)	Large (>5m)	Grass & Path	***Mixed***	***Photinia x fraseri 'Robusta' (under wires)*** ***Eucalytpus paniculata (non wire side)***	generous grass verge width, would accommodate large trees and small spreading trees when under wires. Currrently native theme to planting. District view available from some houses.
Florence Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (in-road both sides)*** ***Camellia sasanqua (in grass verge both sides)***	Wide short street, that would benefit from in-road planting with potential reconfiguration of parking. Recommend larger tree in-road with small tree in grass verge both sides.
Goodwin Avenue (north section)		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Very good historic street with in-road Brush Box planting. Should continue and reinforce character.
Goodwin Street (south section)		OH (Odd)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides)***	One of the best streets in the precinct. Wide verge with excellent continuity of historic Brush Box. One a handful of streets where trees are not in-road. Recommend reinforcing and continuing as an important historical record of period. Recommend ABC implemented if any new planting ever undertaken.
Griffiths Street		OH (Odd)	Medium (3.5-5m)	Grass & Path	***Mixed***	***Lophostemon confertus (in-road both sides west of Queen)*** ***Xylsoma senticosum (in verge both sides east of Queen)***	Traffic light sight distances and different street character currently exists east of Queen Street. McDonalds located on corner. Historic in-road planting of Brush Box west of Queen Street. Recommend reinforcing and continuing this theme west of Queen St as one of the few such avenues remaining in Precinct. Matching character tree but in smaller size and in verge recommended for west of Queen Street.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Hanks Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Ulmus parvifolia 'Todd' (median/in-road)*** ***Lagerstroemia indica (in verge both sides)***	Many trees disfigured by power line clearance pruning. Very wide street. Recommend to consider investigation of pocket median planting.
Hardy Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Fraxinus pennsylvanica (on non wire side)*** ***Buckinghamia celsissima (under wires)***	Main collector road in Precinct. Extremely diverse mix of street planting at present, street lacks character. Recommend implementing a more consistent planting palette to define it as a principle road.
Harland Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***Caesalpinia ferrea (2-3 positions in-road only non wire side)***	Narrow verge and street with currently no planting. In-road planting opportunities exist opposite wires.
Hillcot Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Historic in-road planting of Brush Box. Recommend reinforcing and continuing.
Hillcrest Avenue		OH (Odd)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Waterhousea floribunda 'Green Avenue' (in-parking lane)***	Street reconfigured and many existing trees declining. Should be replanted with similar character tree to maintain significance but reduce over reliance on Brush Box and with ABC as a priority when replanted. Ensure adequate and improved tree pit construction.
Holden Street	Seaview Street and Princess Street	OH (Even)	Medium (3.5-5m)	Grass & Path	***Mixed***	***Xylosma senticosum***	Only eastern half street in LGA. Many trees disfigured by clearance pruning. Wide verge but very low power lines. Verge narrows slightly at the southern School end which has been provided with some ABC. Non LGA side dominated by Brush Box. Recommend lush spreading evergreen tree capable of being easily managed and pruned under wires.
Holwood Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Prunus cerasifera 'Nigra' (under wires)*** ***Fraxinus pennsylvanica (non wire side)***	Short dead end street with diverse mix of planting currently. Reasonable width grass planting strip.
Ida Street		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Tristaniopsis laurina, Callistemon viminalis cv.***	***Tristaniopsis laurina, Callistemon viminalis cv. (alternating both sides)***	Wide short street. Minimal powerline conflict due to ABC already implemented in much of street.
Mount Street		OH (Odd)	Medium (3.5-5m)	Grass & Path	***Sapium sebiferum***	***Sapium sebiferum (both sides with ABC implementation)*** ***Camellia sasanqua (under wires if no ABC undertaken)***	Generous verge that supports good sized tree. Recommend ABC implementation to allow existing trees to assume normal shape. Good street with consistent planting. Should continue and reinforce current palette.
Old Canterbury Road	Princess Street and Prospect Road		Small (<1.8-3.5m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (south of Queen St only)***	Only western side of street controlled by Council. Major regional through road, with vehicles travelling on kerb side lane. Overhead power lines impacting ability to plant from north of Queen Street. Could plant some trees to the south of Queen St. Much of street dominated by Yeo and Gough Park where park trees could better contribute to streetscape.
Princess Street			Narrow (<1.8m)	Fully Paved	***Mixed***	***Tristaniopsis laurina (opposite wires west of Hardy St only)***	Only northern side controlled by Ashfield Council. Section between Holden Street and Hardy Street with normal verge width that will support planting. Free of overhead wires in this section. Other parts of street no current planting and none recommended.
Queen Street	Seaview Street and Old Canterbury Road	OH (Even)	Medium (3.5-5m)	Grass & Path	***Mixed***	***Caesalpinia ferrea alternating with Lagerstroemia indica (non wire side)*** ***Lagerstroemia indica (under wires)***	Very diverse mix of planting currently exists in the street. Main collector road, should be provided with a more consistent and defining character.
Service Avenue		OH (Even)	Large (>5m)	Grass & Path	***Lagerstroemia indica***	***Lagerstroemia indica (both sides)***	A very well planted street, with very consistent planting of Crepe Myrtle. Recommend reinforcing and continuing this theme into the future.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Victoria Street	Seaview Street and Old Canterbury Road	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Angophora costata (in road blisters only)*** ***Lagerstroemia indica (both sides in grass verge)***	Historic in-road planting of Butia Palms. Street dominated by adjoining Park and Trinity School. Numerous young Crepe Myrtles currently planted. Recommend phasing in-road palm planting out in favour of a larger and more spreading tree located within road blisters at strategic locations. Recommend continuing Crepe Myrtle theme in road verges. Consider angled parking near Park and Schools and additional blister planting.
Watkin Street		OH (Odd)	Medium (3.5-5m)	Grass & Path	***Mixed***	***Angophora costata alternating with Lagerstroemia indica (non wire side only)*** ***Tristaniopsis laurina alternating with Lagerstroemia indica (under wires)***	Slightly asymmetric verge, with wider verge on non wire side often with parking strip implemented. Some ABC at western end which should be expanded. Recommend theme of Crepe Myrtle continued both sides with alternating larger trees on non wire side and smaller tree under wires.
Yeo Avenue		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Xanthostemon chysanthus alternating with Prunus cerasifera 'Nigra' (both sides)***	Very diverse mix of existing street planting. Very narrow grass strip and power lines. Recommend small trees only.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
11 SUMMER HILL							
Allman Avenue		OH (Even)	Small (<1.8-3.5m)	Fully Paved	*Syzygium leuhmannii*	*Caesalpinia ferrea (non wire side only)*	Trees planted under powerlines, but nothing on non-power side. Parking at a premium. Recommend planting on the non-power side with small high branching tree and discontinuing planting under wires.
Bartlett Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	*Mixed*	*Casesalpinia ferrea (non wire side only)* *Fraxinuis griffithii (under wires)*	Recommend thin trunked high branching for non-wire side and small tree under wires.
Bogan Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Liriodendron tulipifera (both sides)*	Good sized grass strip that would support medium sized tree. Street would benefit from the installation of ABC to prevent disfiguring pruning.
Carlton Crescent	Liverpool Road and Prospect Road	OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Nil*	*Corymbia maculata 'Little Mac' (on railway side only)*	Busy road. Footpath only on one side with very limited space, narrow grass strip, vehicles travelling in kerb lane and traffic lights sight distances limit planting opportunities. Suggest planting on railway side only.
Carlton Crescent	Prospect Road and Smith Street	OH (Even)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Tristaniopsis laurina (under wires)* *Corymbia maculata 'Little Mac' (in road non-wire side only)*	Larger trees on railway side which typically has a grass only verge. Often this area is too narrow for tree planting. Recommend consider very strategic blister on non-wire side to plant larger trees say every 100-120m, minimising the parking loss but radically improving aesthetics of street. Reasonably consistent planting of Water Gum under wires should be continued and reinforced.
Carrington Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Mixed*	*Lophostemon confertus (in road both sides north of Wellesley St)* *Syzygium paniculatum (in road on wire side south of Wellesley)* *Elaeocarpus eumundi (non wire side south of Wellesley)*	Western section of street narrow and fully paved. Recommend in-road in this section too. North of Wellesley St contains an important remnant of in-road Brush Box planting. This section should be retained and reinforced, together with nearby Spencer Street.
Chapman Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	*Callistemon viminalis cv. and Melaleuca bracteata*	*Backhousia citriodora (under wires)* *Harpullia pendula (in-road non wire side)*	Currently planting under wires, with nothing on non wires side. Recommend small tree under wires with better planting practice an 2-3 medium sized trees in-road on other side.
Dover Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Melaleuca styphelioides and Callistemon viminalis cv.*	*Melaleuca styphelioides (non-wire side only)* *Backhousia citriodora (under wires)*	Many existing trees disfigured by power line clearance pruning.
Drynan Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	*Melaleuca bracteata and Lophostemon confertus*	*Syzigium paniculatum (opposite wires)* *Backhousia citriodora (under wires)*	Some historic in-road planting of Brush Box but now substantially diluted. Recommend discontinuing in-road planting.
Edward Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	*Callistemon viminalis cv. and Elaeocarpus reticulatus*	*Callistemon viminallis cv. (under wires)* *Elaeocarpus reticulatus (non wire side)*	Numerous young Callistemon recently planted.
Fleet Street		OH (Odd)	Narrow (<1.8m)	Fully Paved	*Callistemon viminalis cv. and Melaleuca bracteata*	*Backhousia citriodora (under wires)* *Harpullia pendula (in-road non wire side)*	Planting under wires, with nothing on non-wires side. Recommend small tree under wires with better planting practice and 2-3 medium sized trees in-road on other side.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
French's Lane		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***-***	Street providing rear lane access to Dover Street and the only access that is provided to Haig Ave. Verge too narrow for street tree planting.
Gower Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Melaleuca leucadendra (in road both sides where adequate planting pits can be provided)*** ***Melaleuca styphelioides (in verge non wire side)*** ***Backhousia citriodora (under wires)***	Alternating planting of Melaleuca leucadendra and Melaleuca styphelioides. Many trees disfigured by power line clearance pruning. One of the few streets in wider Sydney with reasonably consistent planting of the Melaleuca leucadendra species. Should continue with adequately prepared in-road planting pits but ultimately discontinue in verges. Palms now very sporadic, should discontinue and relocate to other areas within the LGA.
Grosvenor Crescent	Liverpool Road and Pembroke Lane	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Corymbia maculata 'Little Mac' (on railway side only)***	Planting possible on railway side only.
Grosvenor Crescent	Pembroke Lane and Smith Street	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Melaleuca styphelioides, Corymbia eximia, Corymbia maculata 'Little Mac' (non wire side only)***	Grass only verge on the railway side currently and extensively planted with larger trees. Native planting suggested to link with Cadigal Reserve and Green Corridor. Many large Euc. sp within adjoining apartment landscapes contribute to streetscape.
Haig Avenue		ABC (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Corymbia eximia (in-road and non-wire side)*** ***Angophora hispida, Synoum glandulosum (under wires)***	Very short and quiet street next to native reserve. Historically in-road Brush Box. Recommend native tree planting to link in with Greenway Corridor, but with similar form and size of the Brush Box to maintain historic references.
Henson Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides)*** ***Corymbia maculata 'Little Mac (strategic in-road planting blisters)***	Narrow verge and fully paved. Strategic in-road planting recommended. Many existing Tibouchina not performing well. Historic in-road planting of Peppercorn Trees on one side of street north of Junction Rd. Many young ones planted as replacements. Together with Prospect Road one of the more significant collector roads in Summer Hill.
Herbert Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Eucalyptus paniculata (with road closure area)*** ***Waterhousea floribunda 'Green Avenue' (both sides in-road, eastern end only)*** ***Syzygium leuhmannii (non-wire side western end)***	Street closed to traffic at Old Canterbury Road end. Street kinks in the middle at Henson Street. Currently Euc. nicholli planted within street closure. Western end of street presents slightly narrower verge. Recommend reconifguring the eastern end with in-road planting and parking lane definition both sides.
Hurlstone Avenue		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Histroric in-road planting of Brush Box. Some disfigured by power line clearance pruning. Good street, should continue and reinforce as one of the few remaining Brush Box streets in Summer Hill.
James Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Tibouchina lepidota***	***Tibouchina lepidota (both sides)***	Currently dominated by Tibouchina under wires. Recommend continuing but with improved tree pit preparation for any new or replacement trees.
Junction Road		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Lagerstroemia indica (both sides)***	Very diversely planted street with no defining character. Significant collector road within Summer Hill so should be defined with Crepe Myrtles similar to other collector roads within LGA. Also has relatively narrow grass strip that supports only small thin trunked tree suitable for under wires.
Kensington Road		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)***	Excellent street, should continue. Manage as an important heritage street. ABC should be implemented over time and over any new planting.
Lindsay Avenue		OH (Even)	Narrow (<1.8m)	Fully Paved	***Syzygium leuhmannii (heavily pruned copse)***	***Magnolia grandiflora 'Exmouth'***	Short dead end street. Could look at one or two additional trees where clear of wires, with attention to adequate tree pit preparation.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Liverpool Road	Parramatta Road and Grosvenor Crescent	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Elaeocarpus eumundi (non wire side only where clear of other obstructions)*** ***Corymbia maculata 'Little Mac' (only in setback areas clear of wires)***	Numerous underground services. High traffic volumes with kerb side traffic. Space available in front of apartments with setback on northern side for larger trees. Plane trees in Explorers Park contribute to streetscape. Recommend planting of small upright tree to define as key collector road similar to other portions of Liverpool Rd.
Lorne Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Caesalpinia ferrea (non wire side only)*** ***Camellia sasanqua (under wires)***	Planting under wires and none on non-wire side.
Louisa Street		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	*-*	Very narrow street and verges, fully paved. Minimal planting opportunity.
Moonbie Street		OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Caesalpinia ferrea (in-road and non wire side)*** ***Pyrus calleryana 'Chanticleer' under wires***	In-road Schinus areira planted in-road north of Junction Road. ABC a priority for street. Most of verge fully paved.
Morris Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Eucalyptus microcorys***	***Harpullia pendula alternating with Fraxinus pennsylvanica (non wire side)***	Power lines quite low along street. Large Eucalyptus microcorys planted in-road on non-wire side. Recommend staged replacement of these over time with improved tree pit preparation and alternating planting of and evergreen and deciduous species.
Nowraine Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides and in-road where possible)***	Numerous Crepe Myrtles planted within street, some within the road.
Oaklands Avenue		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Elaeocarpus eumundi***	***Elaeocarpus eumundi (both sides)***	Short street with recent planting of Elaeocarpus eumundi. Recommend ABC installation to ensure they can mature without disfiguring pruning.
Old Canterbury Road		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Backhousia citriodora (under wires)***	Only western side of street within LGA. Many trees disfigured by power line clearance pruning. Views available to city from higher portions. Adjoining Council targeting planting of Brush Box, Koelreutaria and Backhousia citriodora
Parramatta Road		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Nil***	*-*	Major regional road, limited planting opportunities within street.
Prospect Road	Carlton Street and Seaview Street	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Caesalpinia ferrea (non wire side only)***	Caesalpinia currently starting to dominate the character of street. Opportunities to plant more. Very narrow grass strip south of Robert Street on the eastern side, but is under wires. Recommend no planting under wires.
Prospect Road	Seaview Street and Old Canterbury Road	OH (Even)	Small (<1.8-3.5m)	Fully Paved	***Caesalpinia ferrea***	***Caesalpinia ferrea (only non wire side and if School landscape alters)***	Trinity School landscaping contributing to streetscape. Narrow fully paved verge under wires. No planting currently under wires. Trees in school contribute to streetscape and overhang verge, no requirement for street planting in this area while these are maintained.
Regent Street			Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Elaeocarpus eumundi (non wire side)*** ***Backhousia citriodora (under wires)***	Planting under powerlines but currently none on non-wire side. Recommend thin trunked high branching tree on non wire side. Improved tree pit preparation for any new or replacement planting.
Rosemount Avenue		OH (Odd)	Large (>5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (both sides)***	Excellent street character. ABC a priority to prevent further pruning.
Seaview Street	Prospect Road and Henson Street	OH (Odd)	Large (>5m)	Grass & Path	***Mixed***	***Lophostemon confertus and Magnolia grandiflora 'Exmouth' (non wire side)*** ***Lagerstroemia indica (under wires)***	Rather unique street within precinct with asymmetrical verge. Very wide verge on south side supports very large tree planting. Numerous young Brush Box recently planted on the large side and Crepe Myrtles under wires. Aging Camphor Laurels will eventually require replacement with more suitable species.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
Short Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Melaleuca bracteata (non wire side only)***	North side fully paved under wires. Narrow grass strip less than 1m wide. Section east of Henson Street is a very narrow street and verge with no tree planting recommended. Private trees contribute to streetscape.
Sloane Street	Grosvenor Crescent and Parramatta Road	OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Lophostemon confertus***	***Lophostemon confertus (in-road both sides)*** ***Elaeocarpus eumundi (south of Gower St only where services and awnings permit)***	Significant through road. Significant remnants of in-road planting of Brush Box. Recommend reinforcing and continuing.
Smith Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Lagerstroemia indica (both sides)***	Major through road. Narrow verge, mostly fully paved. Recommend strengthening and reinforcing with a Crepe Myrtle theme on both sides with improved tree pit preparation for any new or replacement planting. This will define this as an important collector road similar to other such streets.
Spencer Street		OH (Odd)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Syzygium paniculatum (in-road wire side south of Wellesley St)*** ***Elaeocarpus eumundi (non wire side south of Wellesley St)*** ***Lophostemon confertus (in-road both sides north of Wellesley St)***	North of Wellesley St contains an important remnant of in-road Brush Box planting. This section should be retained and reinforced, together with nearby Carrington Street.
Sunning Place		OH (Even)	Narrow (<1.8m)	Fully Paved	***Nil***	***Elaeocarpus eumundi (non wire side only)***	Short dead end street, narrow verge. Any planting would need close attention to tree pit design and installation.
Teakle Street		OH (Even)	Small (<1.8-3.5m)	Grass & Path	***Mixed***	***Murraya paniculata (under wires)*** ***Caesalpinina ferrea (non wire side)***	Wires very low within this street. Verge becomes wider to southern end. Recommend medium sized spreading tree on non-wire side.
Wellesley Street		ABC (Odd)	Small (<1.8-3.5m)	Fully Paved	***Mixed***	***Schinus areira (in road non wire side only)*** ***Tristaniopsis laurina (under wires)***	Extensive planting of Schinus areira within road opposite wires. Should continue but with improved tree pit preparation for any new or replacement planting.

Street Name	Between Streets	Power Lines	Verge Width	Verge Type	Existing Dominant	Proposed Species	Key Street Observations
12 SUMMER HILL VILLAGE							
Hardie Avenue		None or UG	Narrow (<1.8m)	Fully Paved	***Nil***	-	Plane trees planted within adjoining car park.
Lackey Street		OH (Odd)	Small (<1.8-3.5m)	Fully Paved	***Pyrus ussuriensis***	***Pyrus ussuriensis (both sides)***	Awnings impact tree locations. Should continue theme of Pyrus to delineate village precinct.

8.2 Street Tree Supply and Installation Specifications

1. Technical Guidelines Overview

Planting trees within streets is a complex operation that can involve removal and reinstatement of existing pavements, excavation, disposal of spoil, supply and planting of the tree, mulching, and installation of final tree surrounds. When carried out on major roads, professional vehicle and pedestrian traffic control measures will be required including the potential scheduling of work in the early mornings or on weekends.

This considerable effort can be wasted if the tree dies shortly after planting and then must be replaced. It is therefore essential that the tree is in optimal condition when planted, and the methods of planting, protection and maintenance is of a high standard.

This part of the document outlines the required measures and requirements of Ashfield Council with regard to street tree planting. This Section will act as a specification for the purchase, installation and maintenance of street trees for use by the Council itself, its chosen Contractors or any private developers required to carry out work in the public domain.

Key factors that shall be considered include:-

- Purchase of trees of the specified size and quality
- Tree installation specification - including size of tree pits, and soil and backfill provisions
- Street planting technical details
- Specification and installation of any required tree guards
- Maintenance requirements

2. Street Tree Supply Specification

2.1 General conditions and quality

All trees to be provided to the Council are to conform to the NATSPEC guide and "*Guide for assessing the quality of and purchasing of landscape trees*" by Ross Clark 2003. The following specification details the specific requirements for the supply and transportation of trees. Definitions for the terms used within this specification shall be in accordance with the NATSPEC guide.

Nursery stock shall meet design criteria for minimum dimensions, container size and shape, plant shape or special pruning requirements outlined in this document and the table below.

Container Volume	Height above container (m)	Calliper at 300mm	Clear trunk height (m)
45 Litre	1.9 - 2.3	30-35 mm	1.2
75 Litre	2.2 - 2.4	40-45 mm	1.4
100 Litre	2.4	> 50 mm	1.5
200 Litre	3.5	> 60 mm	1.5
300 Litre	4.2	> 70 mm	1.5
400 Litre	5.5	> 70 mm	1.5
Palm trees	-	n/a	3.0

2.2 Labelling of stock

Clearly label individual trees and batches with the species name and cultivar / variety / provenance if appropriate. The label is to withstand transit without erasure or misplacement.

2.3 True to type

The trees supplied and planted shall be the species, and variety or cultivar that the Council has specified.

2.4 Health and vigour

The trees supplied shall be healthy and vigorous at the time of delivery and planting. Supply trees with foliage size, texture and colour at the time of delivery consistent with the size, texture and colour shown in healthy specimens of the nominated species. Supply trees with extension growth consistent with that exhibited by vigorous specimens of the nominated species.

2.5 Pest and disease

Trees shall not be diseased or show evidence of pest attack that could affect the long term health of the tree or adjoining plantings. Supply trees with foliage and soil free from attack by pests and diseases. For Australian native trees with a history of attack by native pests (eg. *Ficus macrophylla* & *Eucalypts*), evidence of previous attack must be restricted to less than 15% of the foliage and there must be no actively feeding insects or evidence of fungi.

2.6 Injury

Supply only trees free from injury and wounds.

2.7 Self supporting

Supply only trees that are self supporting.

2.8 Stem taper

Supply trees where the calliper at any given point on the stem is greater than the calliper at any point higher on the stem.

2.9 Pruning

Trees are not to be pruned into a saleable shape just prior to shipment. All pruning shall be a clean-cut at the branch collar, no lopping or topping of trees is to be carried out and the diameter of any wound must not exceed 50% of the calliper immediately above the point of pruning.

Clean stem height: trees shall be supplied with a clean stem height of 35-40% of total tree height. For example a 5m tree is to be pruned to 2m maximum (clean stem height must not exceed 40% of total tree height).

Pruning wounds: Restrict fresh cuts (i.e recent, non-calloused) to <20% of total tree height.

Type: Ensure a clean-cut at the branch collar that complies with AS4373-2007:Pruning of Amenity Trees.

2.10 Crown symmetry

The symmetry of the crown is an important aspect of the presentation and appearance of the tree in the landscape. Difference in crown distribution on opposite sides of the stem axis must not exceed 20%.

2.11 Stem structure

Species with an excurrent form: Supply trees with a defined central leader and the apical bud intact. Trees that have had their leaders cut or damaged will not be accepted. Supply trees with a single stem roughly in the centre of the tree with any deviation from vertical <15º.

Species with decurrent form: Supply trees where the central stem is not divided at any point lower than the clean stem height nominated, and that the stem junction at the point of division is sound.

All species: Ensure that branch diameter is less than or equal to one-half of the calliper immediately above the branch junction.

2.12 Included bark branch unions
Supply trees where the branch/stem bark ridges at junctions between stems and branches and between co-dominate stems are convex, except for species prone to include bark that are known to remain strong (as approved by Council).

2.13 Trunk position
Supply trees with the distance from the centre of the trunk to any extremity of the rootball is not varying by >10%.

2.14 Compatibility of graft unions
When purchasing named cultivars propagated by grafting, it is critical that the graft union is sound and that the scion and root stock are compatible. The union between the scion and the root stock must be sound for the entire perimeter of the graft. The diameter of the scion immediately above the graft must be equal to the diameter of the rootstock immediately below the graft (+or -20%).

2.15 Indication of north
Trees in containers >100 litres: Indicate the northerly aspect during growth in the nursery and ensure it is marked so to withstand transit without erasure or misplacement.

3.16 Root division
Trees in containers >45 litre: Primary division of roots is to have occurred within the outer 50% of the rootball at <100mm intervals.

2.17 Root direction
Ensure that roots, from the point of initiation, generally grow in outwards (radial) or downwards direction, and that any deviation from the established direction <45º.

2.18 Root ball occupancy
Soil Retention: On shaking or handling of the unsupported rootball at least 90% of the soil volume shall remain intact.

2.19 Rootball depth
Rootball depth assessment for containers/rootballs 45 litres or larger must:

- have a depth of less than or equal to the maximum depth specified for palms;
- have a diameter greater than or equal to their depth; and
- rootballs (regardless of size) must not exceed 550mm in depth (except for palms).

2.20 Height of root crown
Ensure that the trees root crown is at the surface of the rootball and free from suckering.

2.21 Non-suckering rootstock
Grafted cultivars/varieties: Supply trees grafted onto non-suckering rootstock.

2.22 Rejection of non-conforming specimens
Any tree not conforming to the specifications and standards listed in this specification shall be rejected and suitable replacements provided. If non-conforming trees are provided, the Council require new stock that complies to be supplied and planted, or alternatively may provide replacement specimens and deduct the costs from any applicable bank guarantee or bond.

3. Street Tree Installation Specification

3.1 General
This specification describes the appropriate techniques to be used to install new street trees within the Council local government area.

There may be allowance for some variation in the techniques to be used, however any change to the techniques from those described here must be submitted in a Work Method Statement for approval by the Council prior to any work being carried out.

Tree planting works shall be undertaken by an Arborist or Horticulturist with minimum certification in accordance with Australian Qualifications Framework Level 2.

3.2 Typical scope of work
The scope of work for tree installation work typically comprises:-

(a) Demolition of existing tree pit or cutting of the existing footway.
(b) Excavation of subgrade for tree pits.
(c) Supply and installation of imported and existing soil mixes.
(d) Installation of trees.
(e) Supply and installation of wooden stakes, ties and guys where required to maintain stability.
(f) Installation of supplied tree guards where specified.
(g) Supply and installation of various style tree bases, to the Councils specification, after an initial six (6) month soil settlement and tree establishment period.
(h) Reinstatement of pavement in any aborted tree pits.
(i) Maintenance of planted trees for a specified period following completion of planting.

3.3 Standards
All works shall be in accordance with the relevant standards. The following standards are referred to in this section:-

- AS4419-2003 Soils for landscaping and garden use;
- AS4454-2003 Compost, soil conditioners and mulches;
- AS4373-2007 Pruning of amenity trees.

3.4 Statutory requirements
The installer is responsible for compliance with all relevant statutory requirements.

The installer shall apply for a Road Opening Permit and be able to demonstrate clear working programs and sequences. Site specific pedestrian and vehicular traffic control plans are to be submitted as part of this application and shall conform to NSW Roads and Maritime Services guidelines and any other statutory requirements. These plans shall include any requirements for parking of work site vehicles and the delivery of materials.

Approval from the NSW Police Traffic Management Centre and NSW Roads and Maritime Services may be required when the work has an impact on traffic flow on major roads.

3.5 Environmental controls
The installer shall ensure that all materials and the execution of the work are ecologically sound, environmentally benign and consistent with the principles of sustainable development.

The installer shall take all practical precautions to ensure that dust and noise caused by the works are kept to a minimum. The installer shall take all practical precautions to prevent the spread of dirt and mud along roads and paths. The installer shall be responsible for all localised sediment and erosion control of work and stockpiles under their control and use.

The installer must comply, and make sure that sub-contractors comply, with the general provisions of this clause and any other environmental protection provisions within the requirements of any statute, by-law, standard and the like related to environmental protection.

3.6 Inspections
Provide not less than 48 hours notice so that a Council Representative can make the following inspections:-

(a) Tree stock prior to planting.
(b) Plant materials set out and placed in tree pits before backfilling.
(c) Tree planting completed.
(d) Footpath reinstated.
(e) Periodic inspections during maintenance period.
(f) Completion of plant establishment period.

3.7 Site investigations, existing services and structures
The installer shall confirm with the Council the exact location of all tree pits associated with tree planting works.

In accordance with NSW electricity and gas supply regulations, all excavations for tree planting require the review of underground service plans sourced from Dial Before You Dig service. Specialist service location tools or expertise may be required when underground service plans are insufficiently detailed or where plans indicate that services are close to the intended planting location. The installer shall be responsible for the rectification of all pavement surfaces where inspections have been undertaken including the making good of any excavation or site markings.

The installer shall notify the Council immediately upon discovery of services or obstructions that prevent any planned tree planting. All services shall be considered live until determined otherwise. No liability is accepted, by the Council or the Service Authorities, for accidents resulting from contact or disturbance to services.

In the event of any damage to any service, the installer shall immediately notify the relevant authority and the Council and satisfy all requirements of the authority concerned.

The installer shall be liable for all damage caused by the tree installation works to all existing buildings and structures. The installer shall make good all damage at their expense.

3.8 Spoil
Surplus excavated material must be immediately removed from the site. This includes debris resulting from site clearance and excavated material not reusable as topsoil, filling, mulch or the like, unless otherwise specified or directed. Existing topsoil with any stump grinding debris incorporated within it will be removed from site and not re-used in the new planting site.

The installer shall be solely responsible for the safe and harmless disposal of material away from the site. Surplus excavated material shall not be permitted to remain in place overnight.

Existing tree base materials, such as unit pavers or stone tiles, can be recycled and reused in the new tree bases as long as specifications allow.

3.9 Extent of excavations
Excavate to an equivalent depth of the new tree rootball measured from the underside of any concrete base slabs, or as shown on the details. Do not disturb services, and excavate by hand around any existing services as required.

The installer shall measure the rootball depth of each tree to determine the appropriate tree pit depth. Allow additional depth to achieve specified falls for subsoil drainage lines and to satisfy finished levels.

Safety precautions must be in place to prevent public entry to work site area.

3.10 Existing pavement
The existing pavement shall be cut by a road-saw or other suitable tool to the dimensions shown in the details. Cutting shall only be at right angles and parallel to the kerb. The cut shall have a neat straight edge and smooth face. Kerbs must not be cut under any circumstances. In the case of cutting unit paving, ensure that the cuts are made along the joints without damage to the surrounding pavers. Unit paving may be dismantled rather than cut if this option minimises damage.

3.11 Subgrade preparation
Cultivate or rip the subgrade at the base and sides of tree pits to a depth of 100mm. During cultivation, thoroughly mix in any materials required to be incorporated into the subsoil. Remove stones exceeding 70mm and any rubbish or other deleterious material brought to the surface during cultivation. Grade the base of tree holes to the required design levels and shapes after cultivation.

3.12 Root control barriers
Root barriers will typically not be required, and shall only be installed when specifically instructed by the Council.

3.13 Soil mixes
TYPE A Soil mix: Commercially available premium grade manufactured sandy loam organic garden mix conforming to AS4419

TYPE B Soil mix: Blended soil mix comprising 50% recovered existing site topsoil (or imported premium grade 'low organic' top soil) and 50% Type A.

COURSE SAND: Shall be washed, sharp coarse river sand 0.25 to 2.0mm in diameter, free of weeds, debris or other deleterious material.

3.14 Soil stockpiling
Do not establish stockpiles of soil on the site. All materials are to be moved directly from carrier to the hole. The pavement surface is to be maintained in a clean and tidy state at all times.

3.15 Soil testing
Upon excavation, if the tree site appears to show poor subterranean condition (poor drainage, contamination, or anaerobic conditions), the installer shall immediately notify the Council. Site specific soil testing or subsoil drainage may be specified and approved.

3.16 Drainage
Subsoil drainage is to be installed as per Council requirements and will be determined on a site by site basis.

3.17 Bad ground
Bad ground shall be ground considered unsuitable for the purpose of the works, including filling liable to subsidence, ground containing cavities, faults or fissures, ground contaminated by harmful substances or ground which is, or becomes soft, wet and unstable and the like.

If bad ground is encountered in, or adjacent, to any tree pit during the work, notify the Council immediately and obtain instructions before carrying out any further work in the

affected area.

3.18 Planting conditions
Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. Avoid planting where unseasonable and adverse weather is forecast within 24 hours of the operations. No trees are to be planted on days exceeding temperatures of 30º Celsius. Generally tree planting is preferred during the cooler months from March to October (autumn and spring).

3.19 Watering
Thoroughly water the tree rootballs before planting and then immediately after planting. Prevent the rootballs from drying out during the transportation or planting phase.

Apply water so as not to disturb the soil. Raise the moisture within the root zone to field capacity. Ensure potted rootball is thoroughly wet through the entire soil profile. Continue watering at a rate and frequency as required to avoid water stress in the plant.

3.20 Lifting of trees
It is preferred that all trees are carried or slung via the root ball. In the event that the trees have to be repositioned or lifted by the trunk, the installer shall provide adequate soft padding to the trunk in the form of underfelt, carpet or rubber wrapping and use only soft slings during the lifting. Serious damage to the cambium tissue of the stem as a result of poor lifting techniques will require replacement of the tree.

3.21 Placement
When the tree pit is excavated and the hole is the correct size, place the rootball in its final position. Ensure the trees are centred and plumb and the top of the rootball level with the finished surface of the surrounding soil mix.

Do not use the trunk of the tree as a lever in positioning or moving the tree in the planting hole.

3.22 Alignment and orientation
Position the tree at the setout distances as indicated in the details. Ensure trunks are set vertically and aligned with other new or existing trees.

Orientate the trees trunk north where indicated by supplied markings where applicable. (+or- 20º). Adjust within the above tolerances so that the primary lowest branches are generally aligned parallel with the kerb and road way (NOT extending out into roadway).

3.23 Root trimming
All trees shall have the outer 10-25mm of the external root ball faces pruned or sliced away using secateurs or a suitably sharp and clean spade. Avoid excessive disturbance to the remaining rootball during this trimming and discontinue if excessive rootball soil begins to fall away. Do not leave the rootballs exposed for extended periods. Cover the rootball with moist hessian if backfilling can not occur immediately.

3.24 Backfilling
Backfill with soil mix as specified in soil mixes and in accordance with the details and specification. Lightly compact the soil to ensure all voids around rootballs are filled and that no air pockets are retained.

Ensure that the backfill soil is not placed over the top of the potted rootball. The top of the rootball and plant stem must be kept level with the top of the backfill.

3.25 Mulch
Mulch shall be free of deleterious and extraneous matter, including soil, weeds, rocks, twigs and the like. Lay mulch to maximum 75mm depth. Place the mulch so that it is not in direct contact with the trunk. Feather mulch away from trunk at base of root ball. (Refer standard details)

Mulch the areas in accordance with the details. The mulch types to be used are as follows:-

- Decomposed granite brown colour, lightly compacted and installed as shown in the relevent standard details.
- Weed free timber chippings or recycled (no fines) wood waste.

4. Tree Establishment and Maintenance

4.1 Tree establishment period
The tree establishment period commences at the date of practical completion for a period specified by the Council.

All trees shall also be maintained immediately following their installation, as per the specifications below, up until the above tree establishment period commences. Tree maintenance works shall be undertaken by an Arborist or Horticulturist with minimum certification in accordance with Australian Qualifications Framework Level 2.

The installer shall submit a program prior to the commencement of the tree establishment period. The program shall detail all works required during the planting establishment period including:-

(a) Rectification of defects;
(b) Provision of materials;
(c) Watering;
(d) Fertilising;
(e) Control of weed growth;
(f) Replacement of dead, damaged or stolen plants.

The installer shall provide 7 days notice of any works to replace trees as part of planting establishment. Throughout the tree establishment period, the installer must continue to maintain new trees and carry out maintenance work including, but not limited to:-

- weeding and rubbish removal from tree surrounds;
- fertilising;
- pest and disease control;
- replanting (on approval from Council);
- adjustment, removal or replacement of stakes & ties;
- formative and selective pruning to AS 4373 and;
- mulching to maintain and reinstate to depth specified.

Watering - Allow for 10% of the planted container volume to be applied every 2 days for the first 2 weeks and then 20% of the container volume once per week for 3-4 months. Despite above guideline, installer is to monitor and maintain soil moisture during summer months ensuring the rootball does not dry out and causes wilting. Ensure the bottom of the tree planting hole does not become saturated. (The above is based on spring to early autumn planting – the above frequency may be halved for winter plantings).

Inspection results and the maintenance procedures shall be recorded and submitted to the Council every 2 months. The various ongoing maintenance practices shall be carried out to the satisfaction of Council.

4.2 Tree guards and supports
The installer shall supply and install 3 wooden stakes with hessian ties per tree, for all trees planted up to 200 litre in size. Where advised by the Council, the installer shall allow to supply and install metal tree guards and grates on specified trees.

When trees are installed within grassed surrounds, plastic collar guards are to be installed regardless of being mulched.

4.3 Fertilising
The following table details the required fertiliser program.

Timing	Product and application rate
At time of planting	Slow Release landscape fertiliser suitable for trees and shrubs, 9 to 12 months release time. Osmocote or approved equivalent applied according to manufacturers directions.
6 months after planting and then monthly through to end of plant the establishment period.	Organic liquid fertiliser. Seasol or approved equivalent applied to soil as per manufacturers directions.

4.4 Aeration or watering pipe
Only where detailed, the aeration pipe will be 50mm slotted 'Ag-Pipe'. These will be without a geotextile sleeve. Any surface grates will be separately specified by Council, where necessary.

4.5 Tree bases
Tree bases surrounded by permeable pavements or flagging etc. shall be left as soil or filled with a thin layer of decomposed granite for the first six (6) months to allow for any settlement of the rootball and backfill soil.

Following the six (6) month settlement period, the tree base as specified in the detail is to be installed.

The tree base is to be maintained in a safe and level condition at all times.

Failure of the tree bases prior to agreed practical completion timing will require rectification by the installer. This failure equates to any area of the tree base slumping/lifting/cracking or creating a trip hazard (variation of more then 10mm) and will require rectification by the installer.

4.6 Pavement rectification
Reinstate and make good to match exactly the surrounding pavement, to the satisfaction and approval of the Council, all pavement, paving, concrete, brick or other surface damaged or affected by the tree planting and tree base installation works.

Existing materials salvaged from the site must be approved by the Council for reuse and must match existing pavement. Where temporary asphalt topping is required, approval of the Council shall be sought.

4.7 Tree replacements
Where trees are damaged or die or fail to maintain vigorous growth typical of the species due to neglect or inadequate maintenance, the installer shall replace, replant and maintain trees of the same species, size and quality.

8.3 Typical Street Planting Details

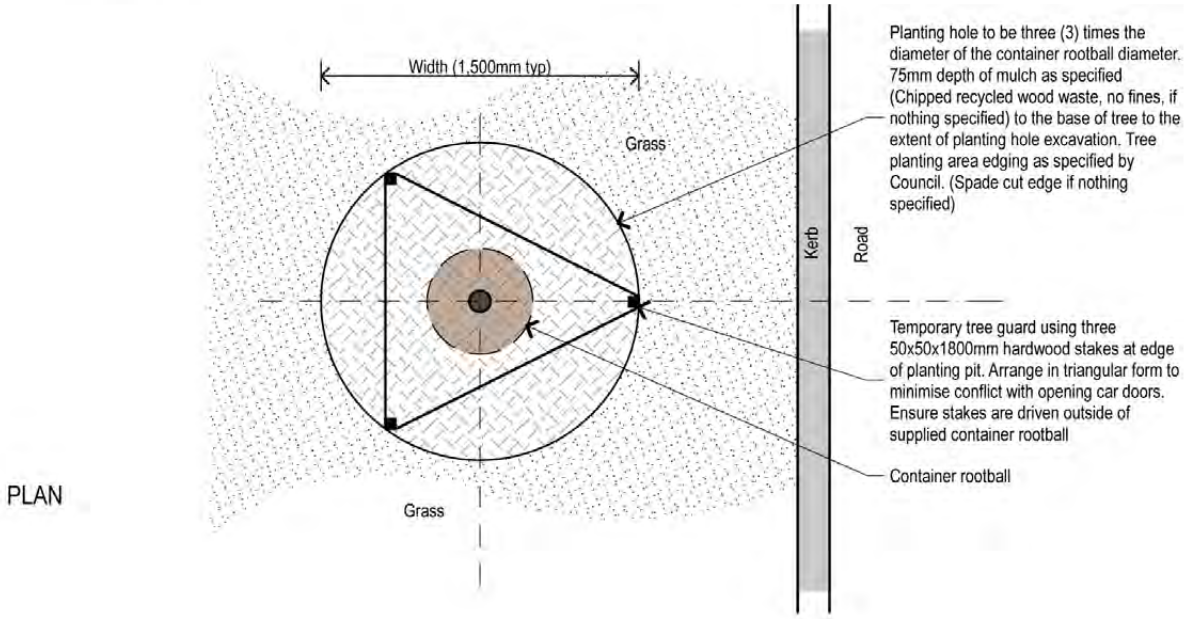
Technical details have been developed to ensure Council staff, developers and Council's Contractors provide an appropriate and consistent treatment for all street tree planting throughout the variety of street environments typically encountered.

In-road planting details and median strip details will be dependent on the individual street widths, traffic and services and will therefore require site specific designs to be employed, however the following 'ideal practice' details have been included here to provide general expectations for tree planting in these instances.

The use of continuous planting trenches, structural soil, structural cells, suspended pavements and other tree planting technology will be considered based on specific site conditions. Actual designs shall be developed by Council or submitted to Council for consideration prior to any installation.

Refer to the following pages for the standard street tree installation and planting details to be typically applied to all normal street planting within the Ashfield LGA area. These details may be amended by Council, from time to time, to accommodate any site specific circumstances.

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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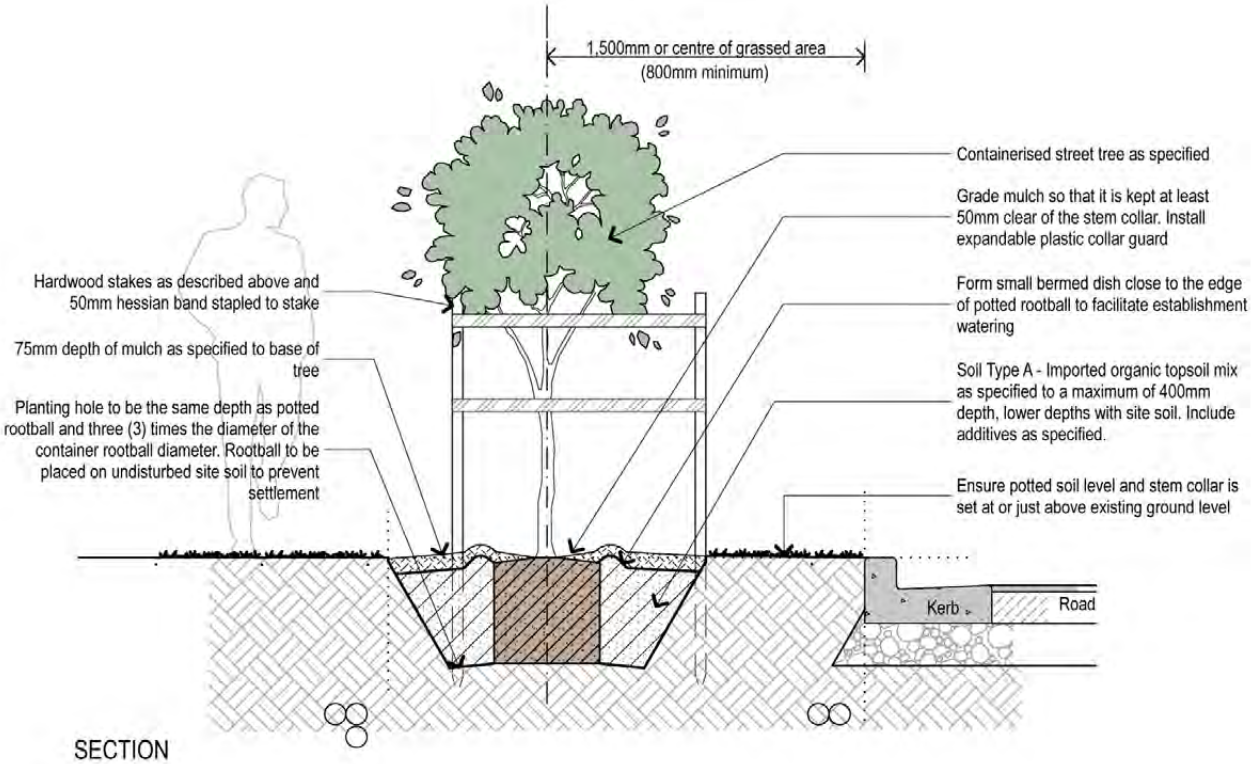

SECTION

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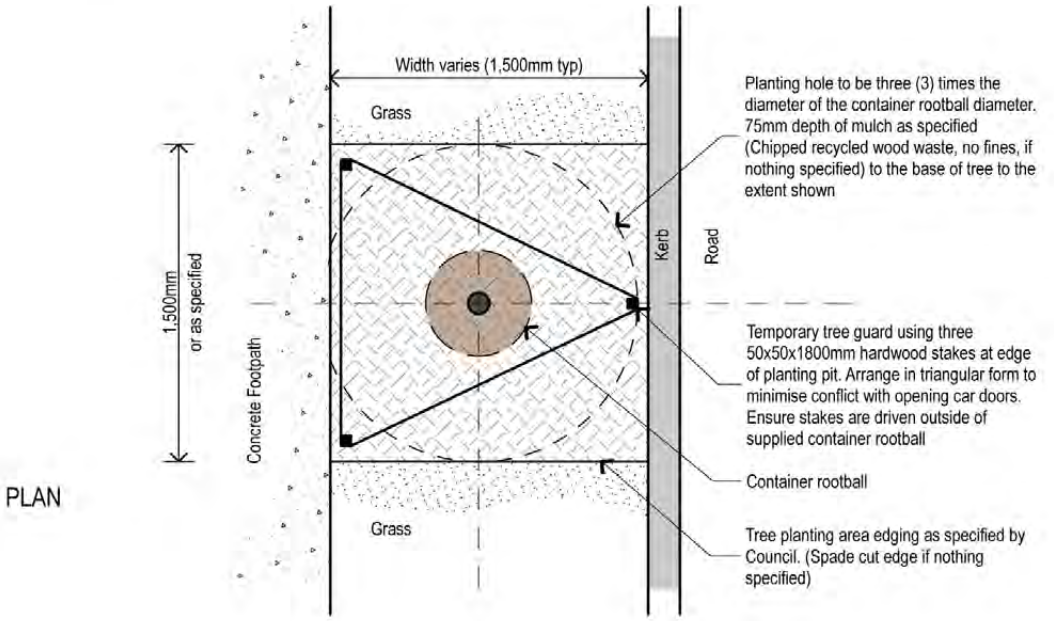
Ashfield Council

DETAIL 1 - TREE PLANTING IN GRASSED VERGE WITH NO PATH NEARBY

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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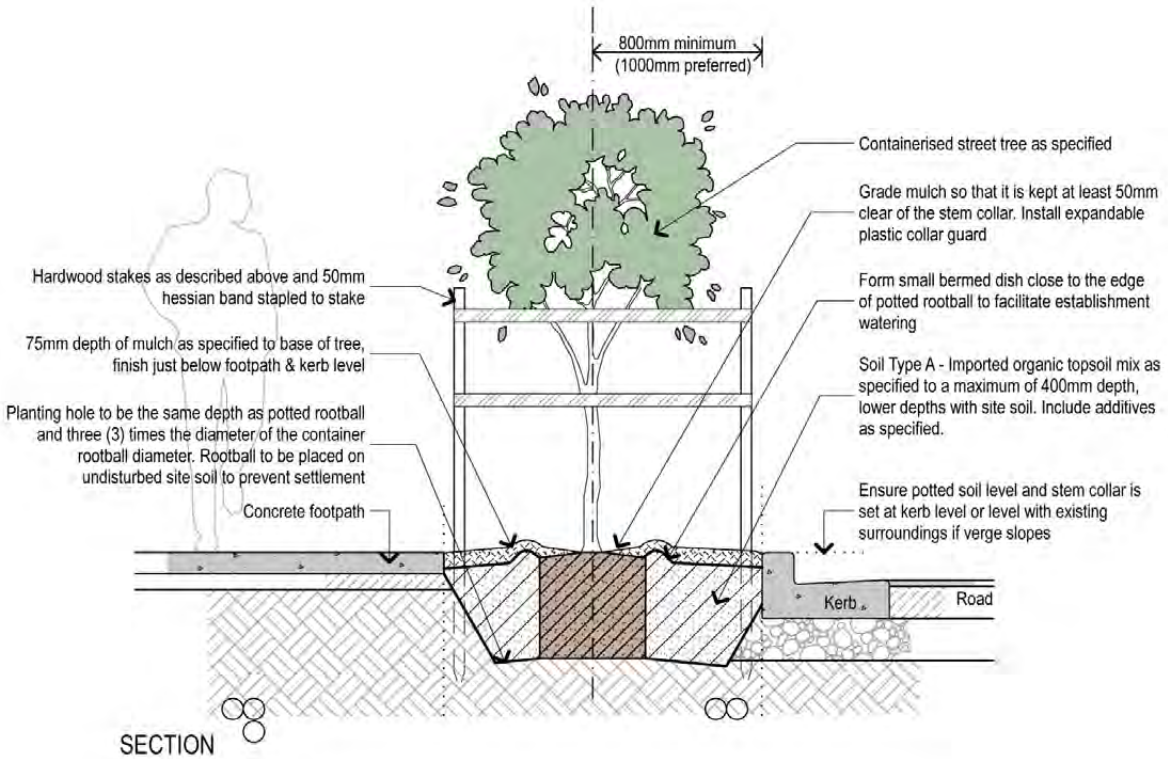

SECTION

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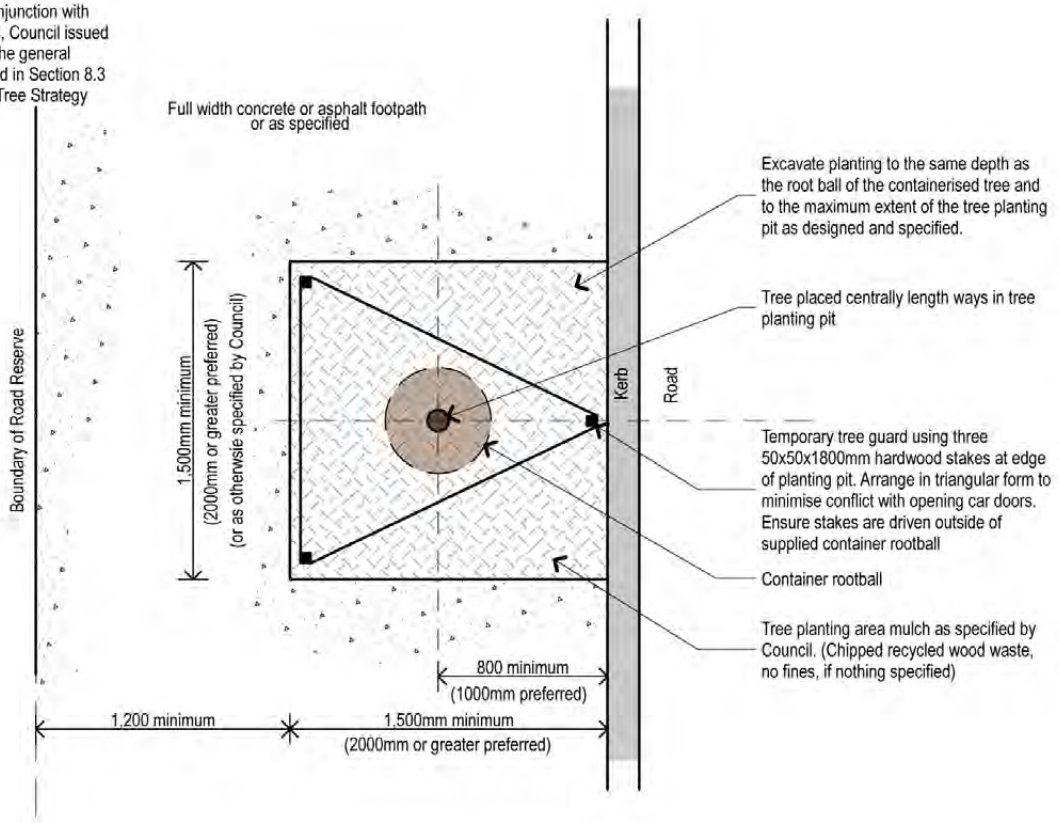
Ashfield Council

DETAIL 2 - TREE PLANTING IN GRASSED VERGE STRIP WITH ADJOINING PATH

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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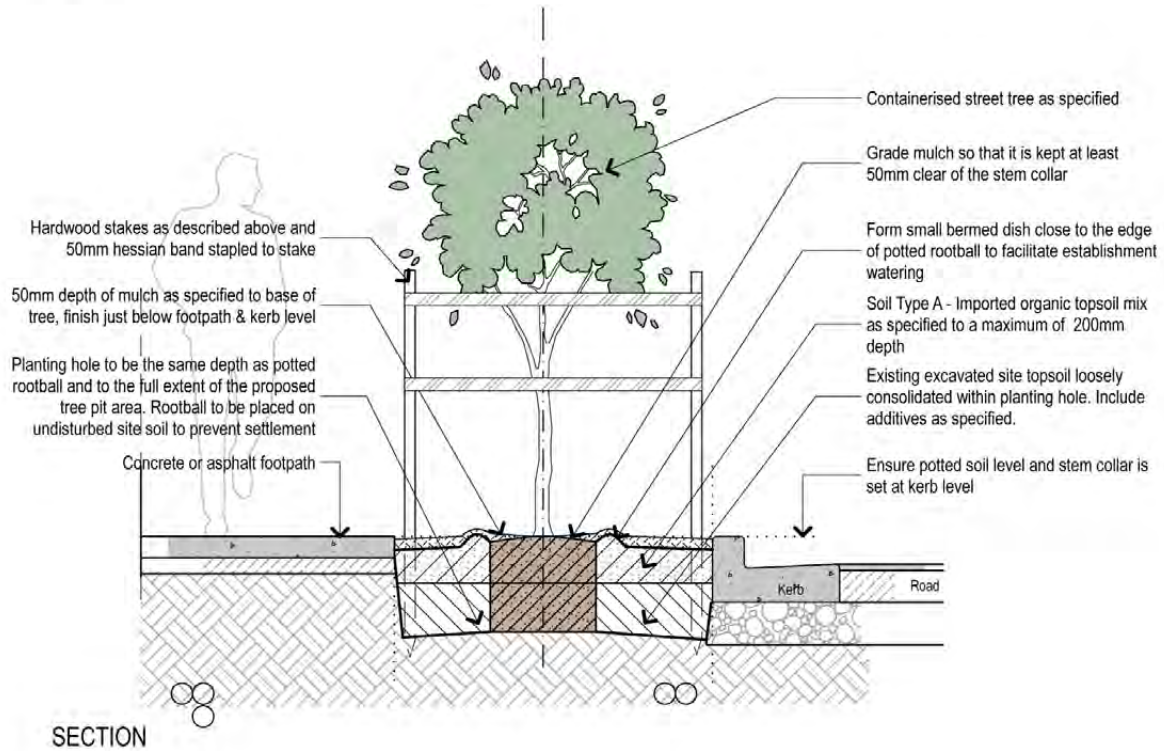

SECTION

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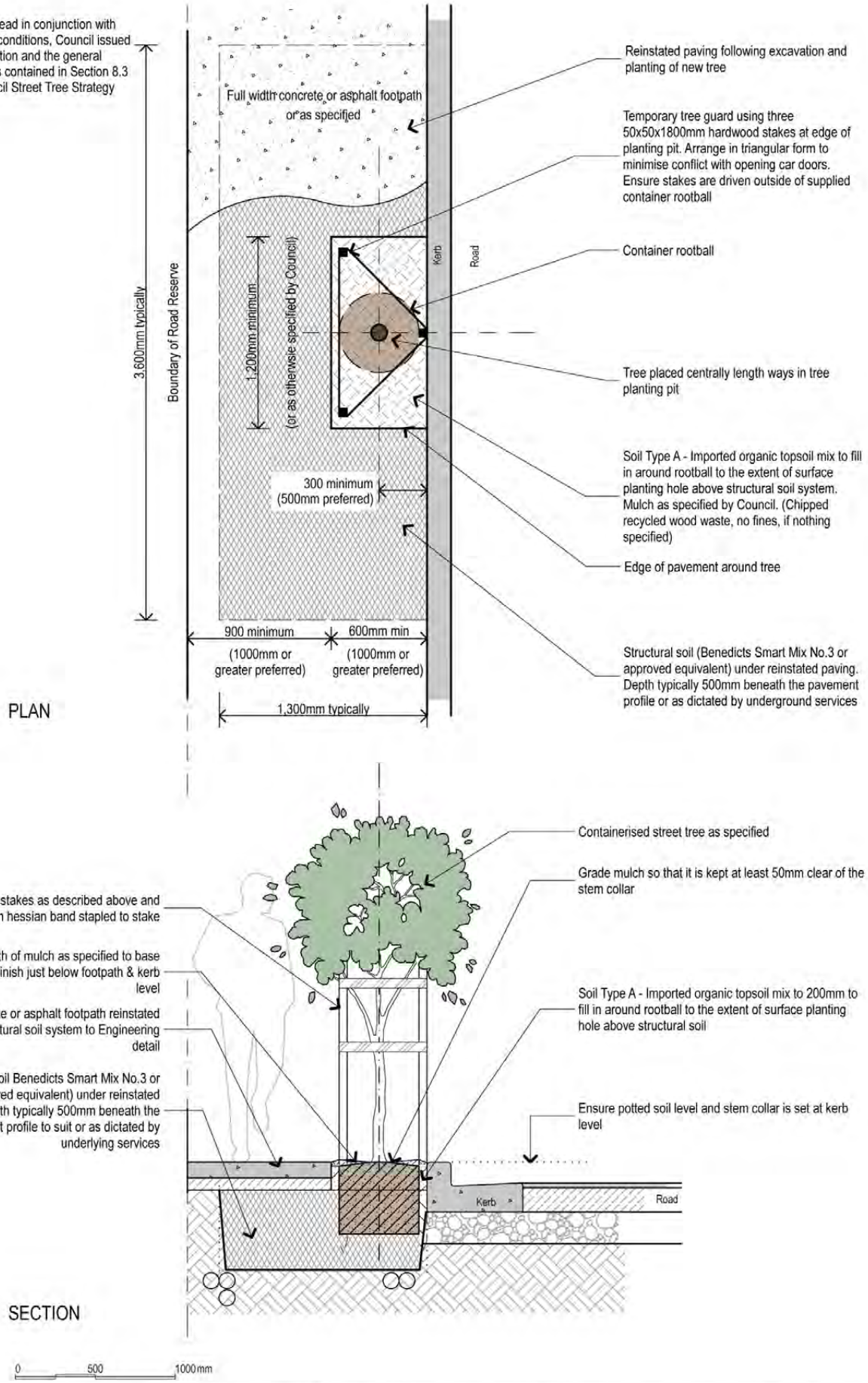
Ashfield Council

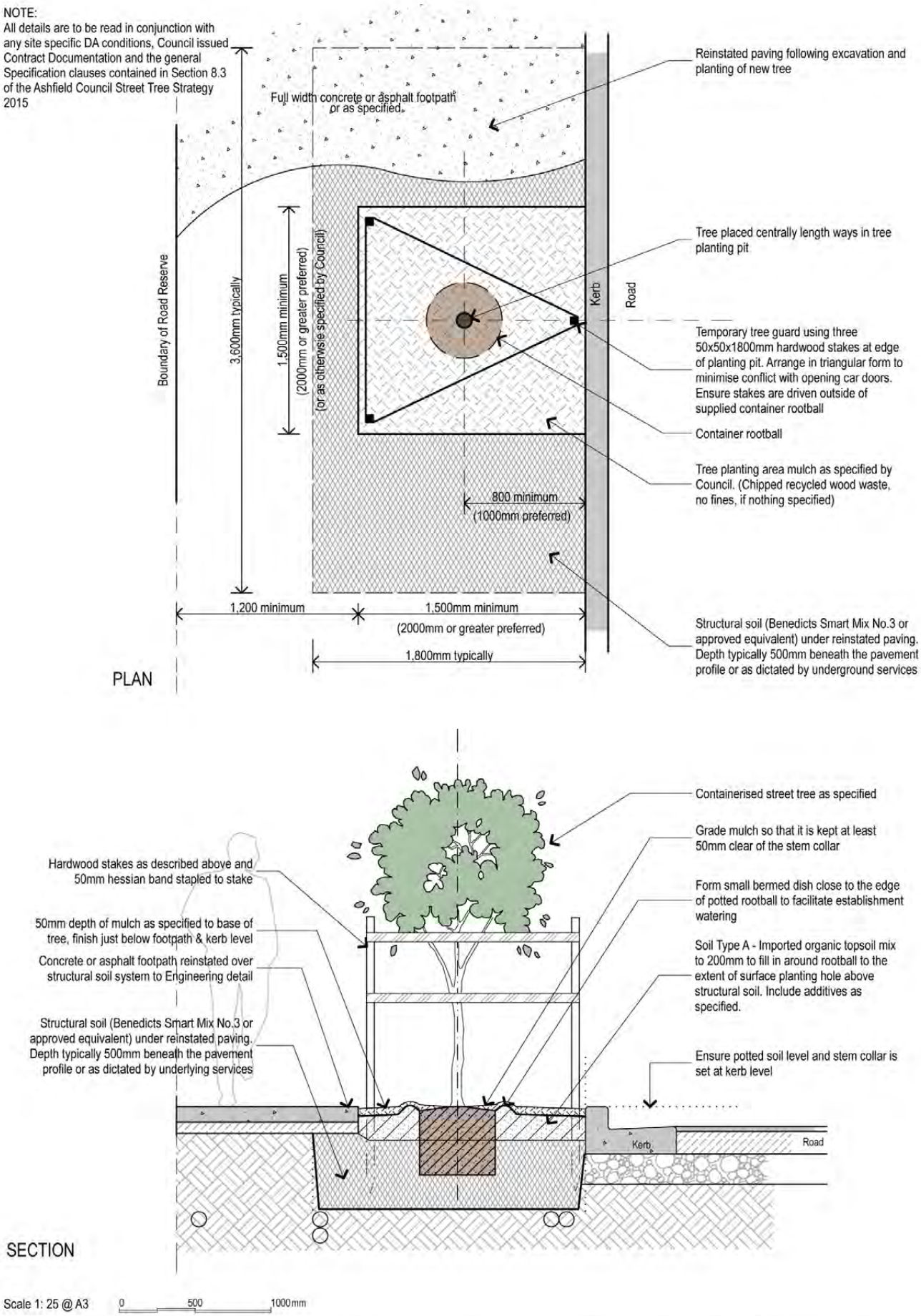
DETAIL 3 - TREE PLANTING IN FULLY PAVED VERGE AND GOOD SURROUNDING SUBSOIL

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



Ashfield Council

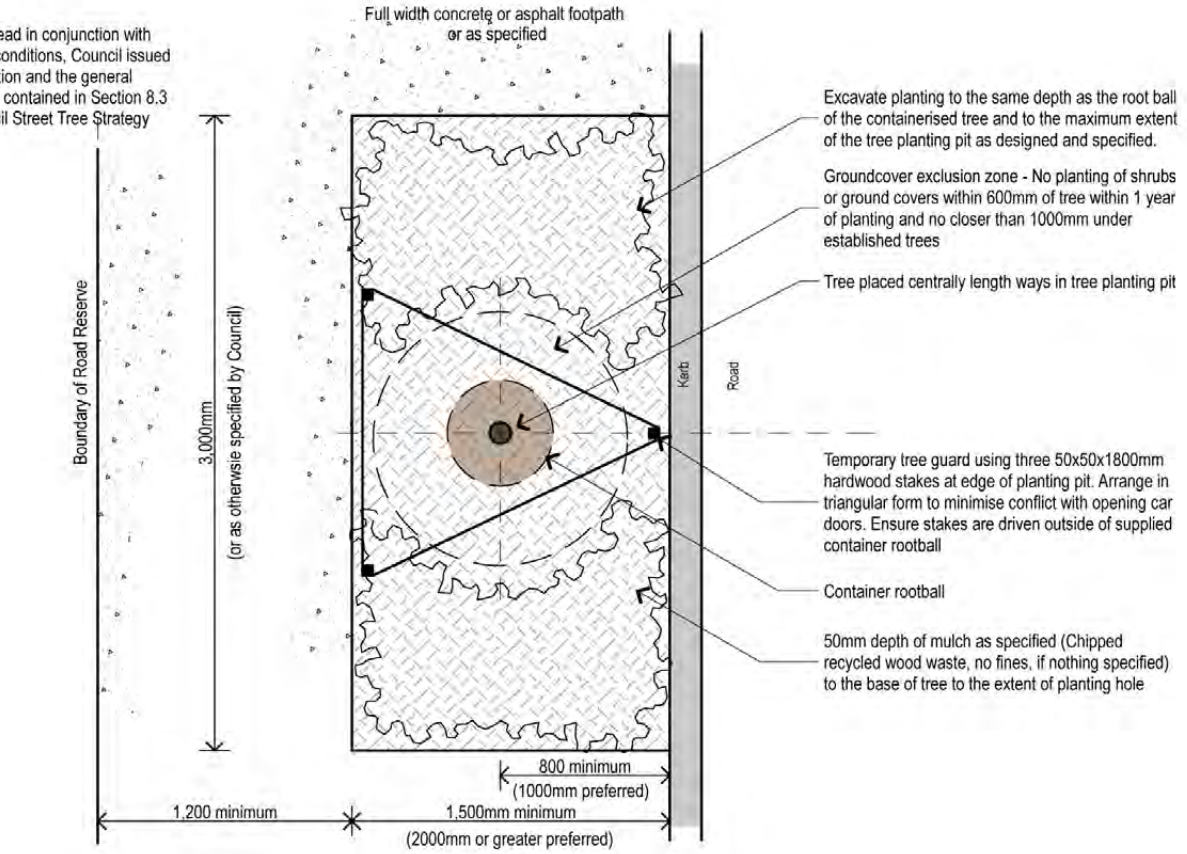
DETAIL 4 - TREE PLANTING IN NARROW PAVED VERGE WITH EXPANDED SOIL VOLUME



Ashfield Council

DETAIL 5 - TREE PLANTING IN FULLY PAVED VERGE WITH EXPANDED SOIL VOLUME

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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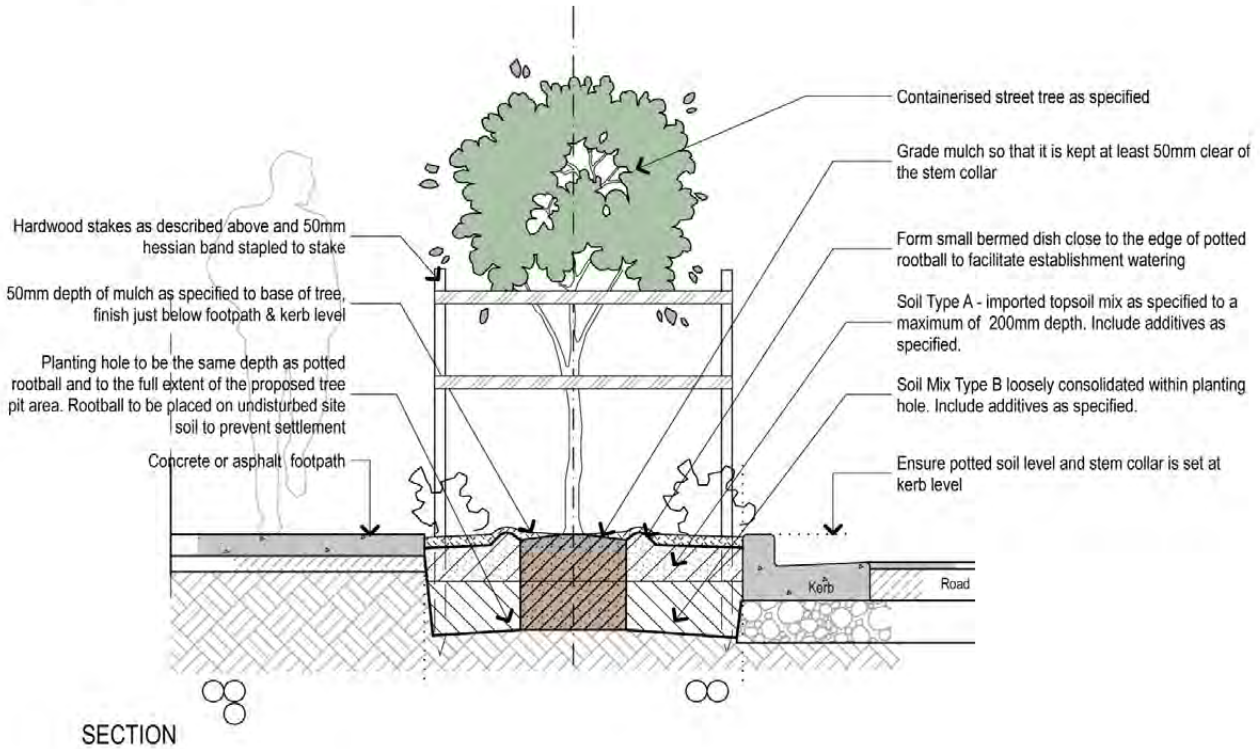

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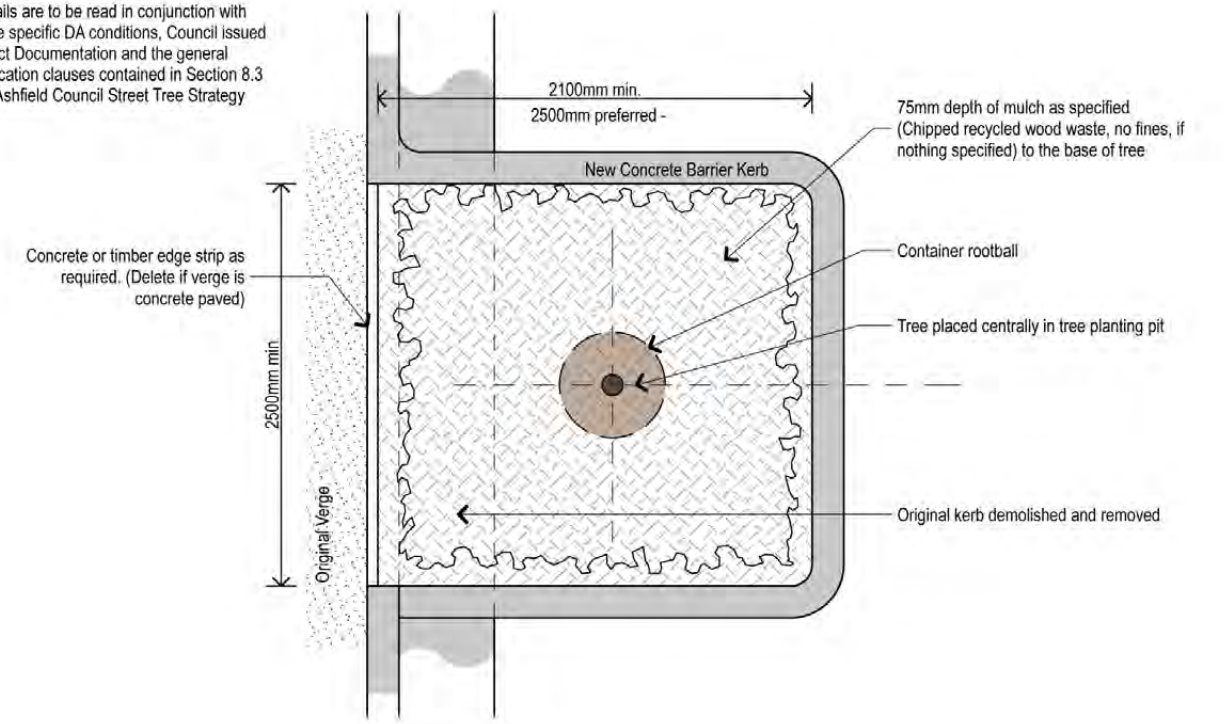
Ashfield Council

DETAIL 6 - TREE PLANTING IN FULLY PAVED VERGE WITH EXPANDED TREE PIT GARDEN

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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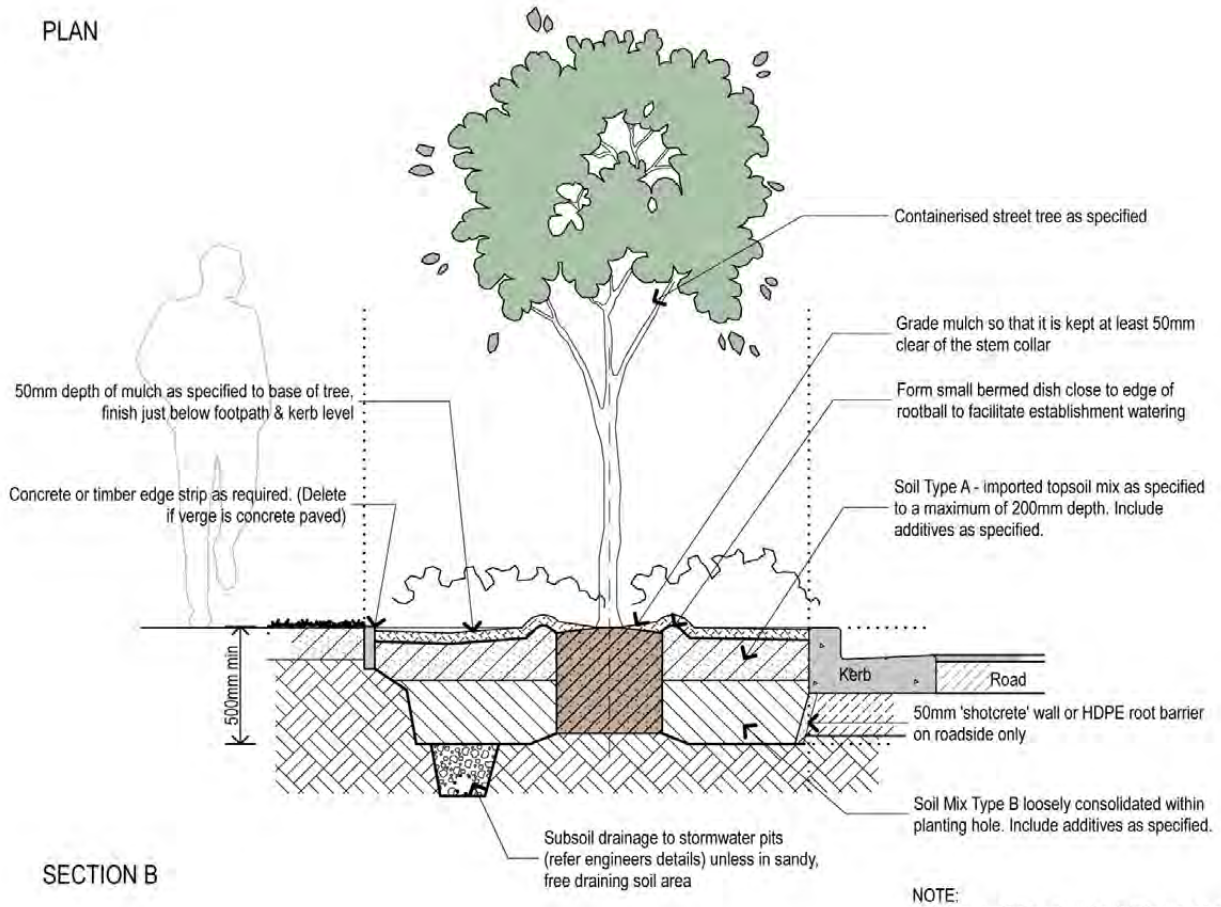


SECTION B

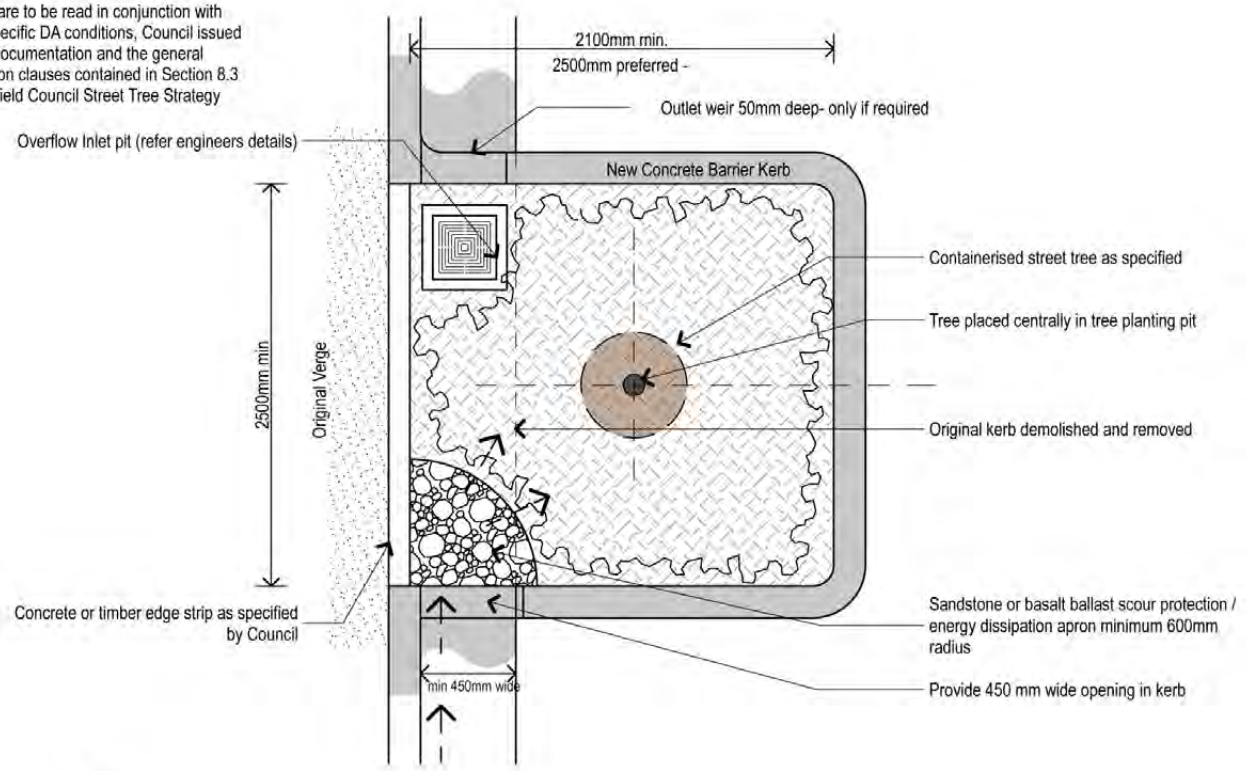
NOTE:
All blister and kerb extension details are to be verified for adequate drainage and existing gutter stormwater discharge on a case by case basis.

Scale 1: 25 @ A3 0 500 1000mm

Ashfield Council

DETAIL 7 - INDICATIVE IN ROAD PLANTING WITH KERB EXTENSION

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



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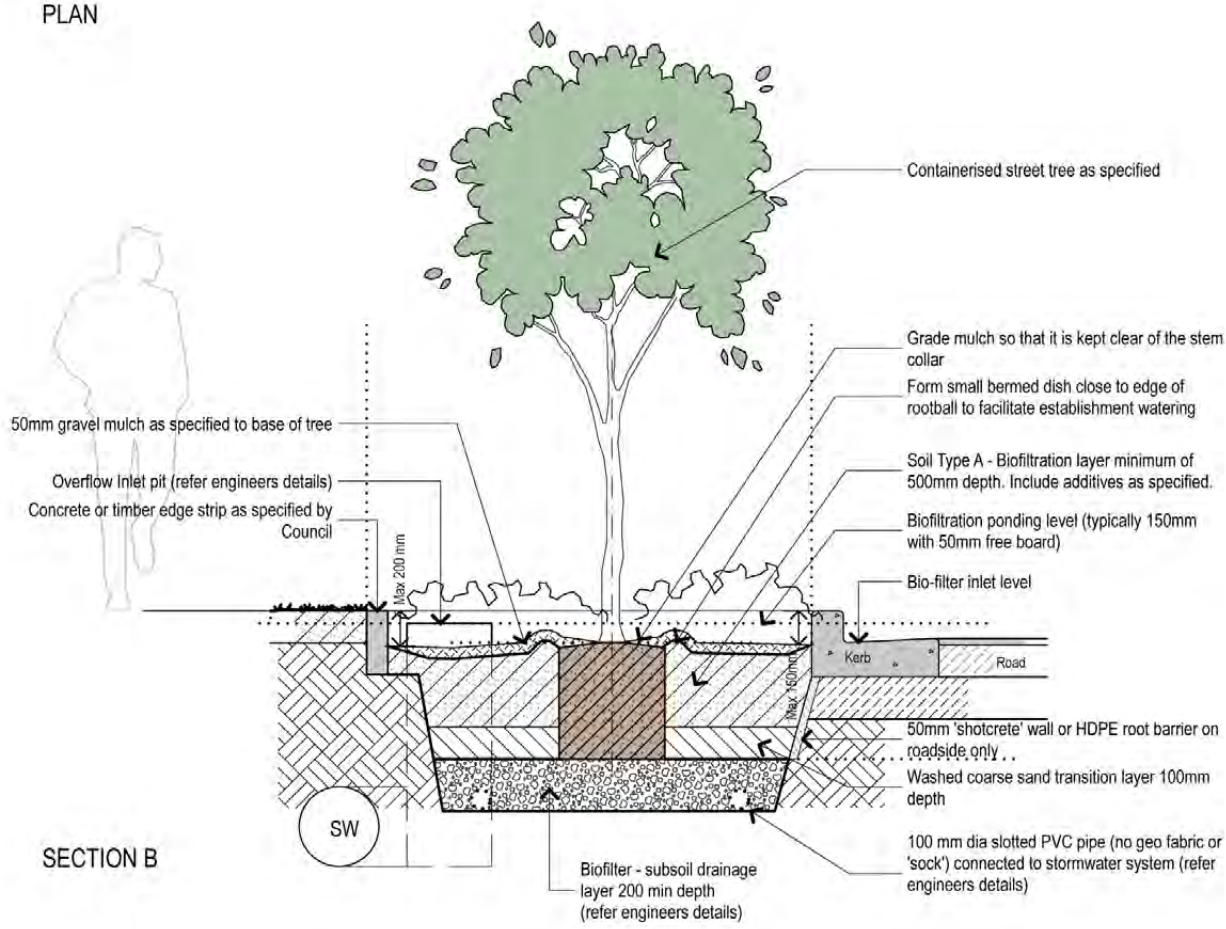

SECTION B

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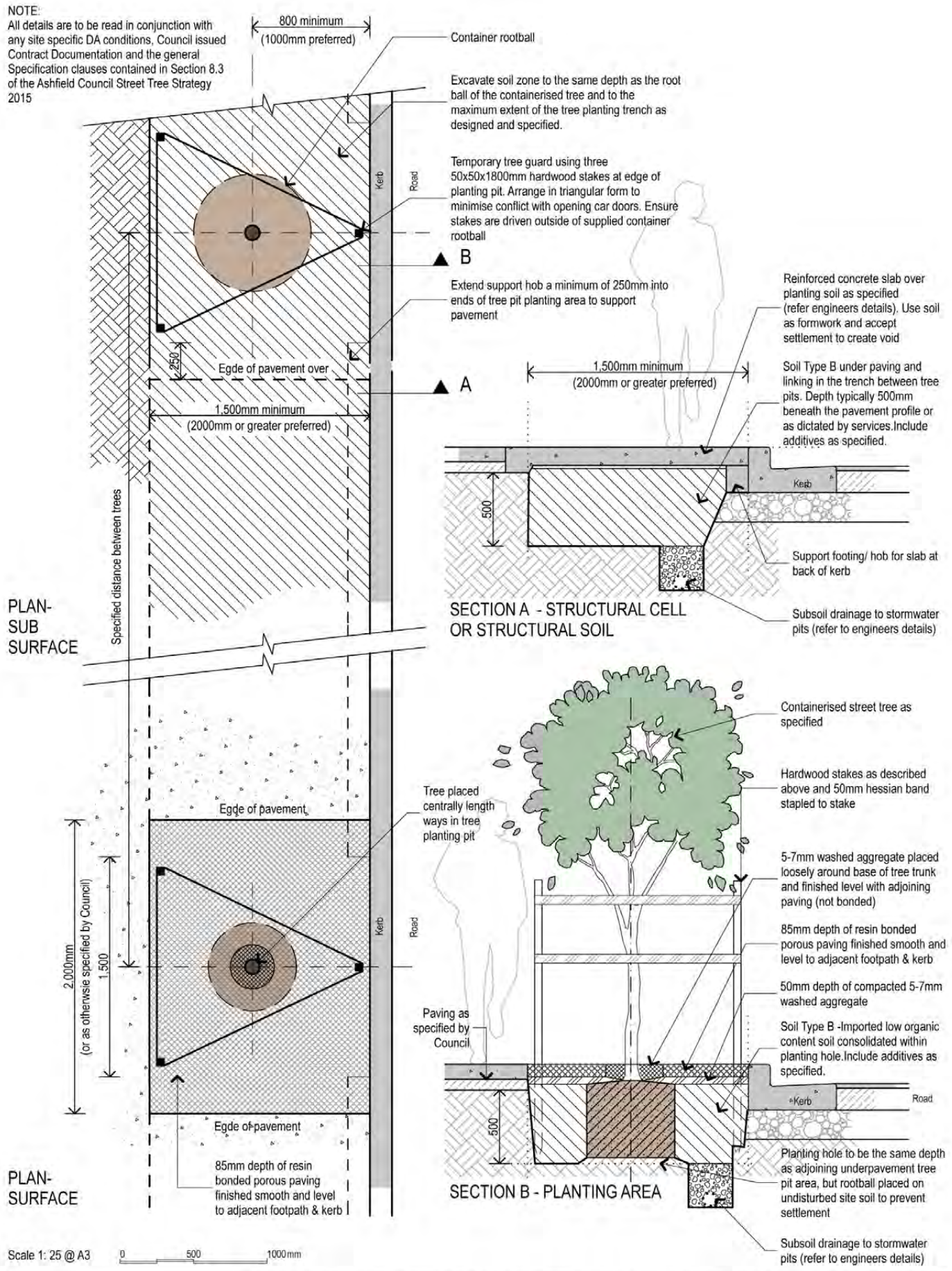
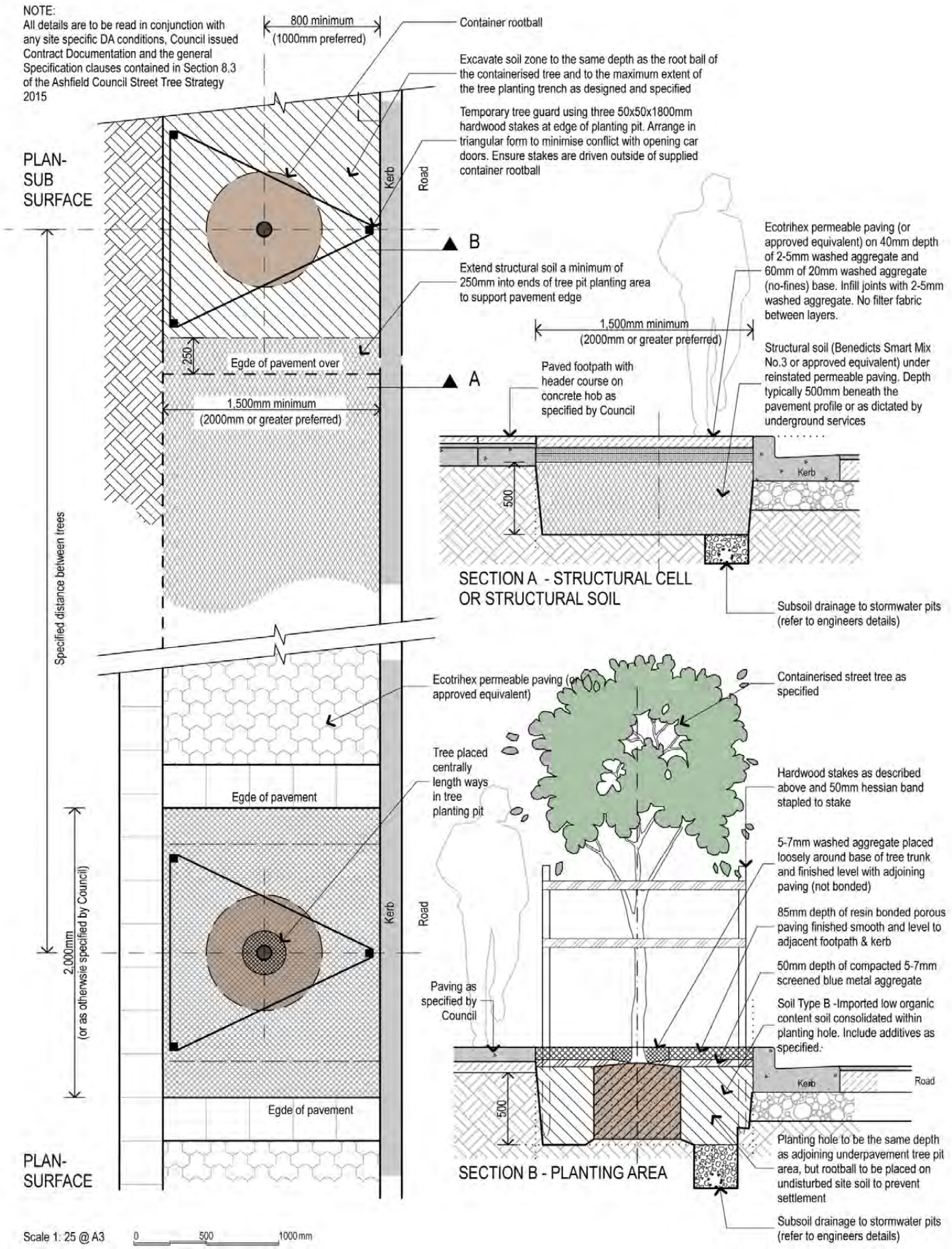
Ashfield Council

DETAIL 8 - INDICATIVE IN ROAD PLANTING WITH KERB EXTENSION & BIOFILTRATION



Ashfield Council

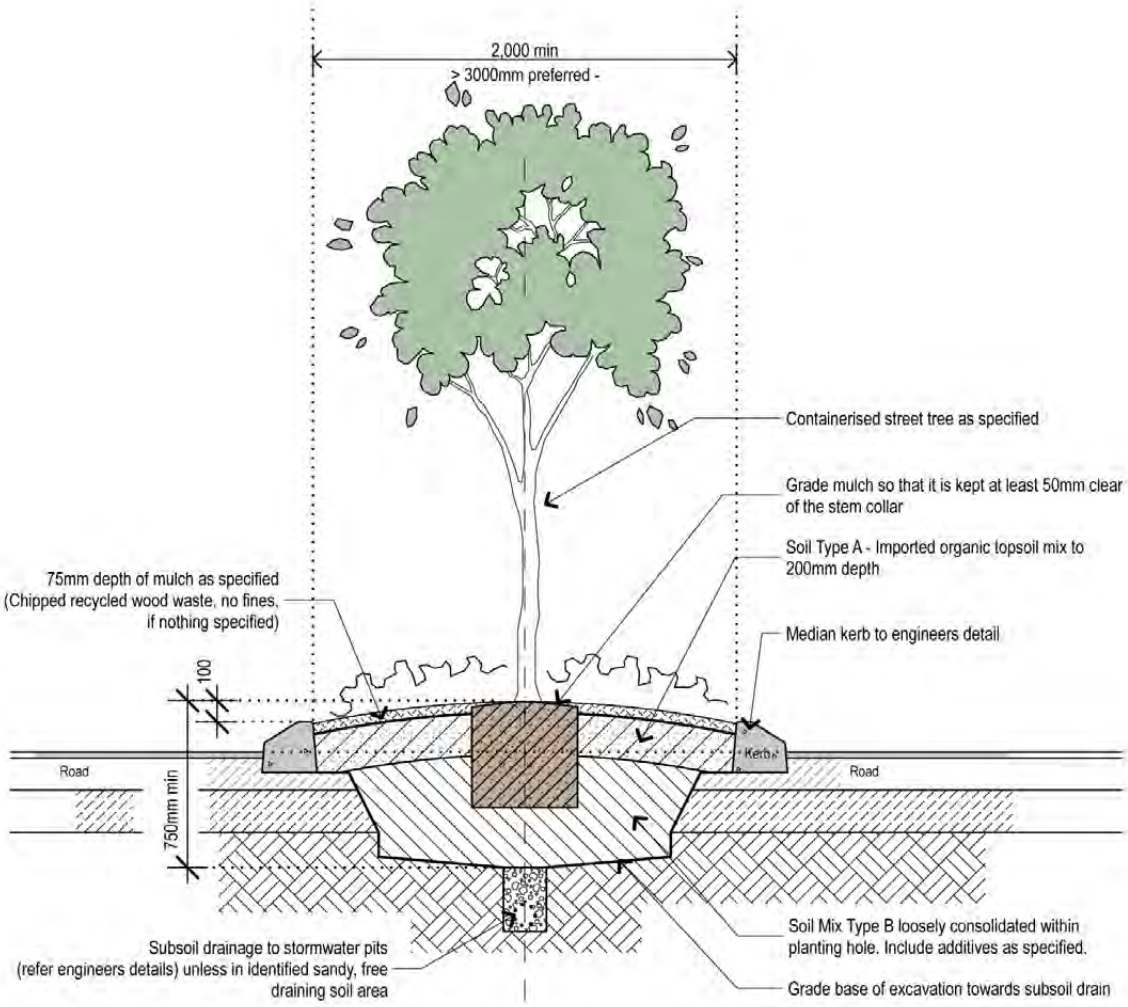
DETAIL 9 - 75-200L TREE PLANTING WITH VAULTED INTERCONNECTED SOIL TRENCH



Ashfield Council

DETAIL 10 - 75-200L TREE PLANTING IN PERMEABLE PAVING WITH STRUCTURAL SOIL

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015



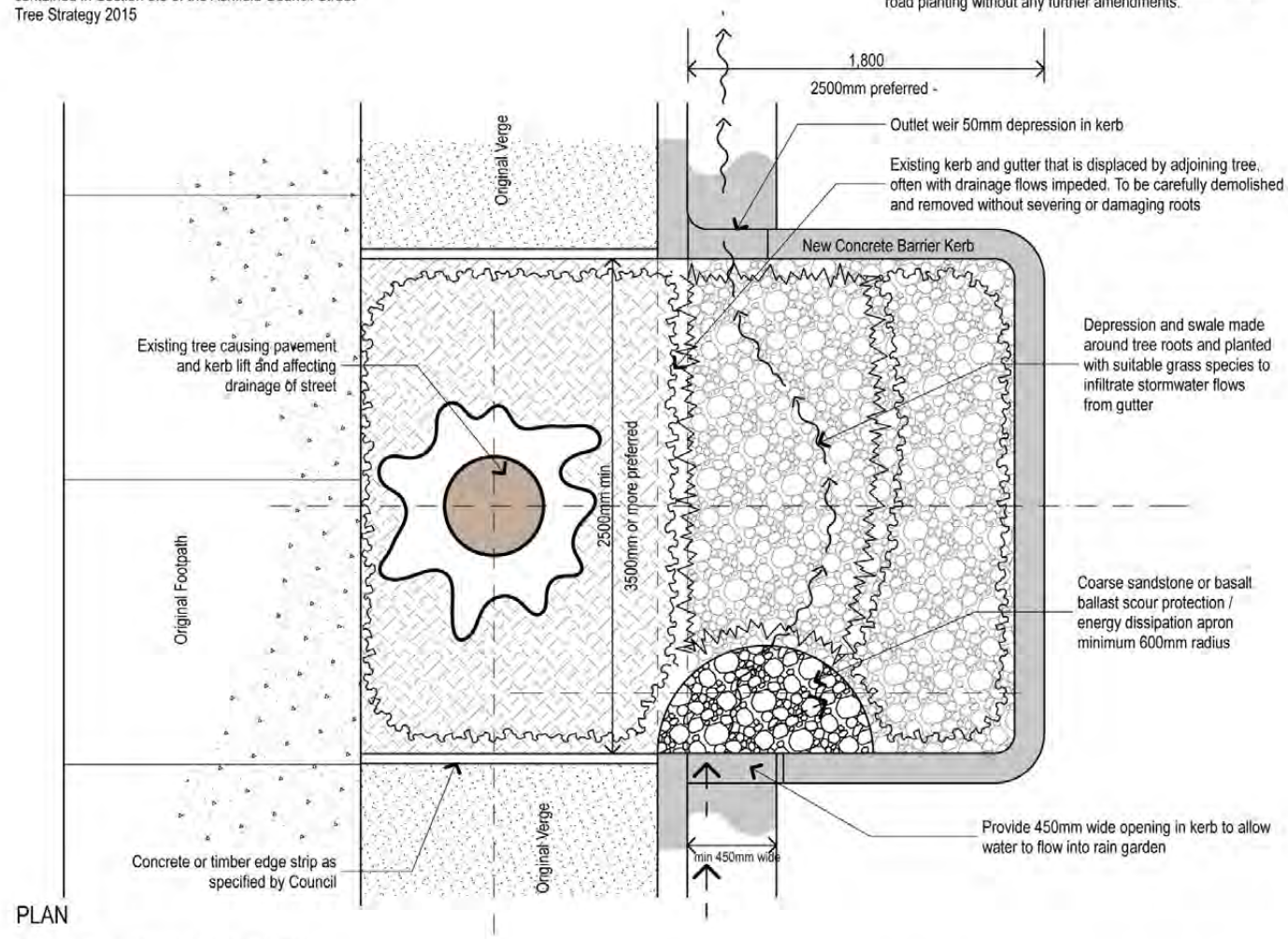
Scale 1: 25 @ A3 0 500 1000mm

Ashfield Council

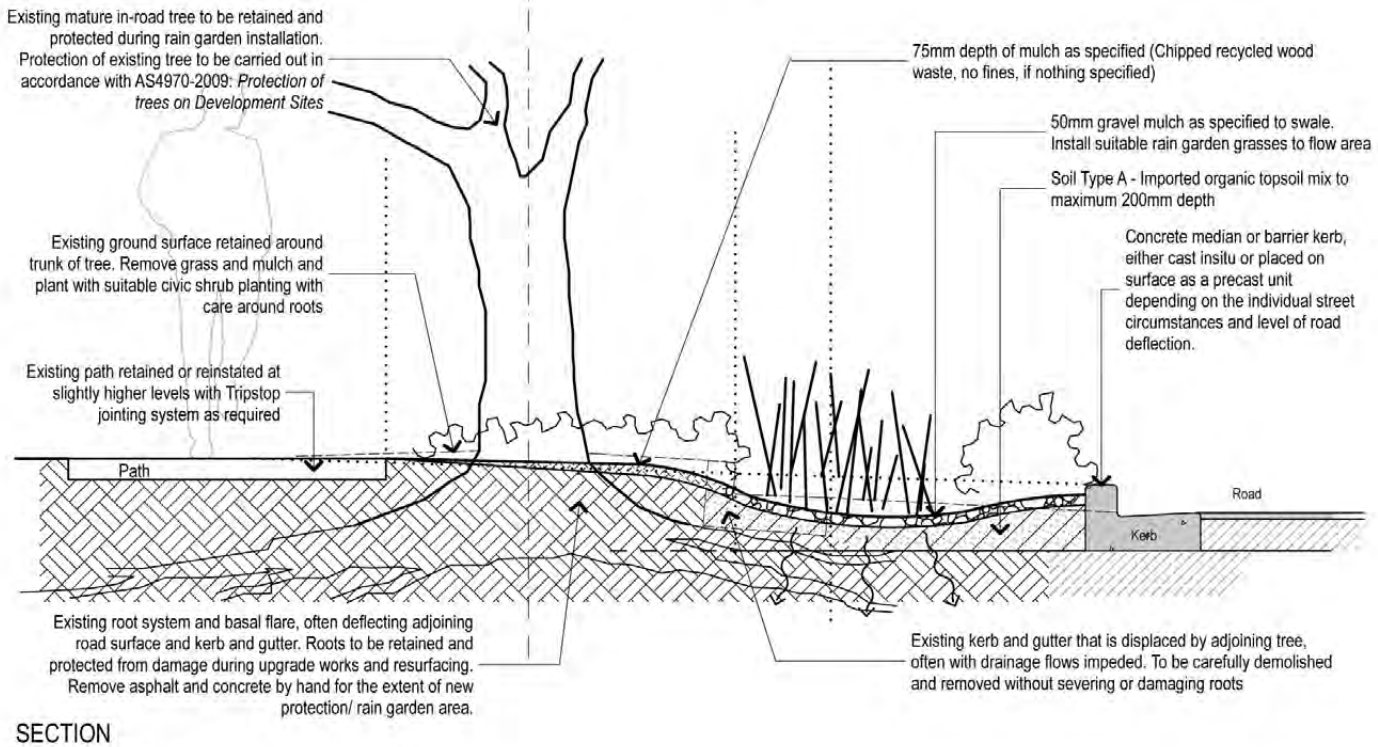
DETAIL 11 - INDICATIVE IN ROAD CENTRE ISLAND / MEDIAN PLANTING

NOTE:
All details are to be read in conjunction with any site specific DA conditions, Council issued Contract Documentation and the general Specification clauses contained in Section 8.3 of the Ashfield Council Street Tree Strategy 2015

NOTE:
If the tree is eventually removed, a new suitable tree could be planted centrally and retain the area as a raingarden with in-road planting without any further amendments.



PLAN



SECTION

Scale 1: 25 @ A3 0 500 1000 mm

Ashfield Council

DETAIL 12 - INDICATIVE RAIN GARDEN AND EXISTING LARGE TREE PROTECTION TREATMENT

8.4 Palm Transplanting Specifications

1. Overview

The following outlines the performance specification requirements for the transplanting of mature palms to and from streets within the LGA. These specifications relate only to the transplanting of palm trees. Only healthy palms, that display no obvious signs or symptoms of disease shall be transplanted.

2. Contractor Experience

Any palm trees identified by Council for transplanting are to be prepared, moved and replanted by a suitably qualified and experienced Tree Transplant Contractor. Each transplant operation and tree will usually require specific methods to be applied depending on such factors as:-

- existing surrounds (ie. asphalt, grass, concrete paving)
- species of palm
- height and girth of palm trunk
- access generally
- overhead obstructions
- nearby below ground services location and depths
- distance to be moved and type of transport to be used
- number to be moved
- preparation requirements for the new location

3. Method Statement

The Transplant Contractor must prepare and submit a detailed method statement of their proposed transplant procedure for each specific tree including as a minimum the:-

- detailed description of the location and number of palms to be moved
- identification of site constraints such as overhead or below ground services nearby
- proposed root plate dimensions and any preparatory works required such as trenching, boxing, root ball wrapping, frond pruning or binding.
- lifting methods and proposed timing (season and time of day)
- loading and transport methods
- reinstatement provision and backfilling of original transplant site
- proposed location preparation
- post transplant care regime and length.

This must be submitted to the Council for review, comment and approval prior to any works occurring.

4. Root Ball Sizes

Palms root balls shall typically be:-

- a minimum of 750mm offset/radius from the outside of the basal flare of the trunk,
- a depth not less than 700mm but not more than 1200mm.

The use of a mechanical tree spade is preferred where conditions, clearance to services and access allow. Other methods shall also be considered.

The root ball shall be suitably wrapped, boxed, or otherwise contained to prevent excessive displacement of the surrounding soil and the rootball during lifting, transport and re-planting operations. All wrapping shall typically be removed after placement and prior to backfilling.

5. Timing and Weather

Council shall be notified 48 hours prior to any proposed transplant operations and a Council representative is to be present during the root pruning, lifting and placement operations.

Transplants shall typically not be done during summer months (Dec-Feb) or when there is forecast adverse weather conditions (over 32°C, or when winds are likely to be greater than 30 kph).

For smaller transplant operations, palms shall be lifted and re-planted within 8 hours of severing the roots.

6. Post Transplant Care

Contractors shall typically be required to maintain the transplanted palm for a minimum of 6 months post transplant. They are to ensure the transplants are adequately watered at all times throughout this period.

'Auxinone' by Barmac Industries shall be applied at a rate of 1 part Auxinone to 50 parts water mixed together with a soil wetting agent to the area around the cut root surfaces. The soil wetting agents shall be 'Saturate', 'Chemwet' or other approved alternative applied in accordance with manufacturer's recommendations to improve the water penetrating capacity of any potentially hydrophobic soils.

The transplanted palm shall be fertilised after transplanting. The fertiliser shall be Patons Multicote 12 + T/E controlled release fertiliser @ 50 grams/ m2. A specific liquid nitrogen fertiliser shall also be applied to help stimulate root growth at rates as per manufacturers recommendations.

A soil - borne fungicide, diluted in accordance with manufacturer's recommendations, shall be applied around all transplanted trees to help prevent the spread or occurrence of fungal pathogens.

8.5 Street Tree Pruning Specifications

1. Overview

Pruning has a direct impact on the health, structure and viability of a tree. All pruning of live tissue results in a wound to the tree, which the tree has to attempt to seal and compartmentalise. Incorrect pruning techniques can, and do, lead to decay and disease within the tree, much the same as a wound in animals can lead to disease and infection.

Pruning of the canopy also has the consequence of removing valuable foliage, which in-turn removes an essential source of energy production from the tree. The tree will then also spend considerable reserves of energy in trying to regrow the losses of the removed foliage. Branches and trunks also hold important transport and storage tissues within the tree.

As per Ashfield's Street Tree Strategy and Tree Preservation Policy, Council will generally not consider leaf, fruit, sap or bark drop or bird and bat droppings as valid reasons to prune or remove a street tree.

2. Canopy Pruning

Pruning of branches of street trees shall be as directed by the Council Tree Management Officer. Pruning is only to be undertaken by a qualified arborist (under the supervision of a person with AQF Level 4 or above). Work is to be in strict accordance with to AS4373-2007 *Pruning of Amenity Trees*. Wounds are not to be treated.

Generally, evaluate the existing plant habit and form together with the desired habit, clearances and form as determined by Council and gain approval prior to any pruning. Minimise the size and number of wounds resulting from all pruning.

Use crown maintenance techniques on all protected trees to improve health and appearance. Use crown modification techniques on all protected trees to accommodate adjacent proposed structures and future construction access. Ensure remaining canopy is balanced with appropriate weight and crown distribution.

Use only clean, sharp pruning implements for all pruning work, ensuring that cuts are made without damage, tearing or bruising of vascular tissue.

Deadwooding

Remove all dead branches greater than 30mm in diameter as required on young trees less than 5m in height. Remove all dead branches of greater than 50mm diameter for existing mature trees greater than 5m in height.

Formative Pruning

Selectively remove branches as required to promote proper form and branching habit, typical for the natural growth habit of the species. For species with an excurrent branching habit, ensure the development of a dominant central leader. Remove lesser competing leaders where required. Ensure that no greater than 15-20% of the total foliage area is removed at any one time. Trees occurring below new or existing overhead power lines shall be pruned to create a lower and multi-branched canopy well below minimum clearances in line with Ausgrid guidelines.

Selective and Reduction Pruning

Remove identified branches for building clearance requirements. These should be removed to a suitable internal lateral branch at least 1/3 the diameter of the branch removed or to the branch collar at the stem. Also remove any broken, damaged and defective branches as required. Remove crossing and rubbing branches and branches with included bark at their junction to ensure proper form and branching habit as required.

Crown Lifting

Remove the lower branches as required to create adequate vehicular and pedestrian clearance up to a minimum height of 2.4m on the pedestrian side or over parking lanes and 4.5m on the trafficable roadside lanes (at 1 metre radius from the centre of the main trunk and outward). Ensure that at least 50% of the foliage arises from the lower two-thirds of the trunk.

Epicormic Growth and Suckers

Typically remove all epicormic growth occurring on the main trunks or basal suckers as and when they occur. If major pruning was undertaken it may be necessary to manage and allow some epicormic growth to mature to provide necessary foliage cover.

Palms

Only remove the old and spent fruits and fronds. Never remove the terminal shoot. To avoid transmission of diseases, tools shall be thoroughly disinfected between trees.

3. Root Pruning

Pruning roots of Council managed trees shall only be as directed by the Council. The Council shall use only a qualified arborist (AQF Level 4 or above) to undertake the pruning. Prior to any excavation, check that there are no existing underground services along the proposed cut line that may be damaged. Roots are not, under any circumstances to be cut using normal excavation machinery of any sort. This usually results in splitting and massive disturbance well past the intended line of cut.

Preliminary root pruning using a high pressure water knife or air spade is allowable along an alignment of the final cut. Using a high pressure water jet, cut through the soil and tree roots from the surface down to the nominated depth or rock, whichever comes first and in the location(s) as shown on any supplied drawing(s) or as directed by Council. All roots are to be hand excavated and pruned if necessary to provide clean cuts.

When required to cut roots, use sharp hand tools (e.g. secateurs, hand saw) such that the remaining root system is preserved intact and undamaged. Roots are to be cut back by hand, square to the edge of the excavation. Do not cut any tree roots exceeding 100mm diameter unless permitted by Council and after evaluation by an AQF Level 5 arborist.

Excavations within root zones should be kept open for as short a period as possible. Any excavated face containing roots is to be supported immediately after cutting, where necessary, to prevent soil loss from around the retained roots.

4. Post Root Pruning Care

Cover the cut face of the roots with moist hessian or jute immediately after pruning. Maintain in a moist state until permanent or temporary backfilling can be achieved.

If no temporary measures are required and finished levels can be achieved, backfill all excavations around tree roots with a mixture consisting of one part by volume of site soil and three parts of washed course sand with a neutral pH value, free

from weed growth and harmful materials. Place the backfill in 150-200mm layers and thoroughly water the root zone surrounding the tree.

Apply root inducing hormone, Auxinone by Barmac Industries (or approved equivalent) at a rate of 1 part Auxinone to 50 parts water together with a soil wetting agent to the area around the cut root surfaces once per week for 10 weeks.

8.6 Street Tree Data Sheets

The following pages are in alphabetical order (by botanical name) and provide illustrations and a brief description of the proposed future street tree species for Ashfield.

The descriptions and measurements are a reasonable and indicative guide to the expected typical sizes in Sydney in an average street environment with average soil conditions and moderate moisture levels.

Please note that some trees may gain larger sizes than suggested in the following data sheets but only in very favourable conditions or in their original and natural forest environments. They will seldom make it to those larger sizes in a normal street planting situation.

Photo of a mature tree. (Photo. Arterra)

Photo of foliage and flowers. (Photo. Arterra)

Botanic Name:
Acacia binervia
(Syn. Acacia glaucesens)

Common Names:
Coastal Myall

Family:
FABACEAE (sub. fam. MIMOSOIDEAE)

Origin:
NSW Coast and Ranges

Typical Height:
8-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Fast.

Typical Habit:
Dense broad domed and compact crown with dark coloured rough bark.

Foliage:
Silvery grey curved phyllodes (modified leaf).

Flowers:
Bright yellow rod shaped 'wattle' flowers in early spring.

Fruit:
A legume (pea) pod that splits to reveal a hard row of seeds.

Site requirements:
Free draining soil in a full sun position. Formative pruning required when young to achieve clearances.

Photo of a mature tree. (Photo. Arterra)

Photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Acmena smithii
(Syn. Syzygium smithii)

Common Names:
Creek Lilly-Pilly

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
10-15 metres

Typical Width:
8-12 metres

Typical Growth rate:
Moderate.

Typical Habit:
Hardy and dense evergreen tree with a rounded to broadly columnar shape.

Foliage:
Small glossy green leaves varying in shape from narrow-lanceolate to broad-ovate.

Flowers:
Cream-white stamenous flowers in summer.

Fruit:
Creamy-pink round berry-like fruit about 10-20mm in diameter, turning pinky red when ripe.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Acmena smithii var. minor
(Syn. Syzygium smithii var minor)

Common Names:
Dwarf Creek Lilly-Pilly

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
5-8 metres

Typical Width:
3-4 metres

Typical Growth rate:
Moderate.

Typical Habit:
Hardy and dense evergreen tree with a typically compact columnar shape.

Foliage:
Small glossy green leaves varying in shape from narrow-lanceolate to broad-ovate, typically smaller than normal variety.

Flowers:
Cream-white stamenous flowers in summer.

Fruit:
Creamy-pink round berry-like fruit about 10-20mm in diameter, turning pinky red when ripe.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of semi-mature tree. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Angophora costata

Common Names:
Sydney Red Gum/ Smooth Barked Apple

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
12-20 metres

Typical Width:
10-13 metres

Typical Growth rate:
Fast.

Typical Habit:
Tall native spreading tree with smooth pink bark and twisted, gnarled branches.

Foliage:
Light green, lanceolate and opposite leaves.

Flowers:
White flowers occurring in large fluffy terminal clusters.

Fruit:
Small ribbed woody capsules.

Site requirements:
Prefers well drained to heavy soils in an open sunny position. Drought and frost resistant.

Photo of mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Angophora floribunda

Common Names:
Rough-barked Apple

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
15-20 metres

Typical Width:
10-13 metres

Typical Growth rate:
Moderate.

Typical Habit:
Tall growing spreading tree with rough bark and twisted, gnarled branches.

Foliage:
Light green, lanceolate and opposite.

Flowers:
White flowers occurring in large fluffy terminal clusters late spring.

Fruit:
Small ribbed woody capsules.

Site requirements:
Prefers well drained to heavy soils in an open sunny position. Drought and frost resistant.

Photo of mature tree. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Angophora hispida

Common Names:
Dwarf Apple

Family:
MYRTACEAE

Origin:
Coastal Sydney

Typical Height:
5-7 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small growing spreading tree with rough bark and twisted, gnarled branches.

Foliage:
Broad stiff, rough and light green, ovate and opposite.

Flowers:
White flowers occurring in large fluffy terminal clusters late spring.

Fruit:
Ribbed woody capsules.

Site requirements:
Prefers well drained sandy soils in an open sunny position. Very drought and frost resistant.

Photo of a mature tree. (Photo. Arterra)

Botanic Name:
Araucaria columnaris
(Syn. Araucaria cookii)

Common Names:
Cook Pine

Family:
ARAUCARIACEAE

Origin:
New Caledonia

Typical Height:
20-25+ metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
Large very symmetrical columnar tree with a pole like trunk and regularly spaced radial branches, usually with a characteristic curved sweep at the trunk base. Classified as a conifer.

Foliage:
Densely crowded spirally arranged leaves.

Flowers:
None.

Fruit:
Small greenish cones.

Site requirements:
Free draining deep soil in a full sun position. Tolerates extreme coastal exposure.

Photo of a mature tree. (Photo. Arterra)

Botanic Name:
Araucaria cunninghamii

Common Names:
Hoop Pine

Family:
ARAUCARIACEAE

Origin:
Northern New South Wales & Queensland

Typical Height:
20-25+ metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
Large very symmetrical tree with a pole like trunk and regularly spaced radial branches. Classified as a conifer.

Foliage:
Densely crowded spirally arranged leaves.

Flowers:
None.

Fruit:
Cones.

Site requirements:
Free draining deep soil in a full sun position. Tolerates climatic extremes and coastal exposure.

Photo of a semi-mature tree. (Photo. Arterra)

Photo of foliage. (Photo. Arterra)

Botanic Name:
Backhousia citriodora

Common Names:
Lemon-Scented Myrtle

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
6-9 metres

Typical Width:
3-5 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small native sub-tropical rainforest tree with a compact form when grown in streets.

Foliage:
Dense dull green leaves heavily scented with lemon.

Flowers:
Masses of creamy white lemon scented flowers in summer.

Fruit:
The fruit is a nut-like capsule which contains small seeds.

Site requirements:
Well drained soil in a full sun position. Can attain larger sizes but only in very favourable conditions and further north.

Photo of a mature tree. (Photo. Arterra)

Photo of foliage and flower spike. (Photo. Arterra)

Botanic Name:
Banksia integrifolia

Common Names:
Coast Banksia

Family:
PROTEACEAE

Origin:
East Coast Australia

Typical Height:
7-10 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small tree with rough corky bark and sometimes twisted and curvy trunks and stems.

Foliage:
Leathery dull green leaves with a silvery underside.

Flowers:
Pale yellow-green cylindrical flower spikes that are rich in nectar in summer through to winter.

Fruit:
Woody fruit cones.

Site requirements:
Well drained soil in a full sun position. Tolerates extreme drought and coastal exposure.

Photo of a mature tree. (Photo. Arterra)

Photo of foliage, young flower head and older seed head. (Photo. Arterra)

Botanic Name:
Banksia serrata

Common Names:
Old Man Banksia

Family:
PROTEACEAE

Origin:
East Coast Australia

Typical Height:
5-7 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small tree with very rough corky bark and usually twisted and curvy trunks and stems.

Foliage:
Leathery dull green leaves with a lighter underside and saw-tooth margins.

Flowers:
Pale cream-white cylindrical flower spikes that are rich in nectar in summer through to winter.

Fruit:
Woody fruit cones.

Site requirements:
Well drained soil in a full sun position. Tolerates extreme drought and coastal exposure.

Photo of a mature tree. (Photo. Arterra)

Photo of flowers. (Photo. Arterra)

Botanic Name:
Brachychiton discolor

Common Names:
Queensland Lacebark

Family:
MALVACEAE

Origin:
Eastern Australia

Typical Height:
12-18 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
Hardy medium sub-tropical native deciduous tree with a stout green grey trunk and dense spreading crown. The deciduous nature of the plant is variable, in some seasons foliage will be retained on all or part of the tree.

Foliage:
Large light green leaves with a variable number of lobes.

Flowers:
The flowers are woolly and prominent bell-shaped pink flowers that appear in spring on leafless branches.

Fruit:
Dark brown woolly seed pod contains numerous seeds embedded in hairs in a honeycomb-like husk.

Site requirements:
Tolerates a wide range of soils but prefers moist very well drained soils, in a full sun or part shade position.

Photo of semi-mature trees. (Photo. Arterra)

Close up photo of a flower. (Photo. Arterra)

Botanic Name:
Buckinghamia celsissima

Common Names:
Ivory Curl Flower

Family:
PROTEACEAE

Origin:
North-eastern Australia

Typical Height:
7-9 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small native tree from northern Queensland with a densely foliaged crown and compact rounded form.

Foliage:
Large stiff and glossy elliptical leaves with wavy margins. New growth has pink/ bronze colouring.

Flowers:
Large and profuse racemes of cream flowers upto 200mm long occurring at the ends of the branches in late spring to summer.

Fruit:
The fruit is a nut-like capsule which are retained on old stems.

Site requirements:
Tolerates most soils with good moisture and in a full sun position. Drought resistant once established.

Photo of a group of mature trees. (Photo. Arterra)

Botanic Name:
Butia capitata

Common Names:
Wine Palm or Jelly Palm

Family:
ARECACEAE

Origin:
Brazil

Typical Height:
5-7 metres

Typical Width:
4-5 metres

Typical Growth rate:
Slow.

Typical Habit:
Thick single trunked palm with broadly pendulous grey-green curving fronds. Dead fronds typically held and sheath the trunk unless removed.

Foliage:
Grey-green pinnately divided 3-4m long fronds.

Flowers:
Short spikes with small white-cream flowers held amongst the fronds, in Spring.

Fruit:
Bunches of grape sized orange to brown fleshy rounded fruits.

Site requirements:
Adaptable to a variety of soil conditions in a full sun position. Tolerates some coastal exposure.

Photo of a semi-mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Caesalpinia ferrea

Common Names:
Leopard Tree

Family:
FABACEAE
(sub. family CAESALPINIOIDEAE)

Origin:
Brazil

Typical Height:
8-15 metres

Typical Width:
8-10 metres

Typical Growth rate:
Slow to moderate.

Typical Habit:
An open and slender branched vase-shaped deciduous tree from Brazil with a smooth and attractively mottled bark.

Foliage:
Delicate light green, with fern-like bipinnate leaves.

Flowers:
Bright yellow in Spring.

Fruit:
Thick and waxy flattened dark brown pods.

Site requirements:
Adaptable to a variety of soil conditions in a full sun position. Prefers moist soils with some protection from winds and frosts when young.

Photo of a mature tree. (Photo. Arterra)

Close up photo of a flower. (Photo. Arterra)

Botanic Name:
Callistemon viminallis cv.

most suitable cultivars:-
'Hannah Ray'
'Harkness'
'Kings Park Special'
Ku-ring-gai Chase'

Common Names:
Bottlebrush

Family:
MYRTACEAE

Origin:
South-eastern Australia

Typical Height:
7-10 metres

Typical Width:
5-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small native tree with a weeping crown and compact form.

Foliage:
Light green narrow scented leaves. New growth has pink/ bronze colouring.

Flowers:
Bright red 'bottlebrush' flower in spring to summer.

Fruit:
The fruit are groups of nut-like capsules which are retained on old flowering stems.

Site requirements:
Tolerates moist soils in a full sun position. Drought resistant.

Photo of a mature tree. (Photo. Arterra)

Botanic Name:
Camellia sasanqua

Common Names:
Camellia

Family:
THEACEAE

Origin:
China, Japan

Typical Height:
4-6 metres

Typical Width:
4-5 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small exotic tree with a broadly domed crown and compact form. May require some formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Dark green leaves. New growth often has slight bronze colouring.

Close up photo of a flower. (Photo. Arterra)

Flowers:
Showy and colour varies widley but typically bright to light pink flowers in late summer, into winter (depending on cultivar).

Fruit:
The fruit are firm and grape sized capsules.

Site requirements:
Tolerates a range of reasonable and moist acidic soils in a full sun or partly shaded position. Drought and frost resistant once established.

Photo of mature trees. (Photo. Arterra)

Botanic Name:
Casuarina glauca

Common Names:
Swamp She-Oak

Family:
CASUARINAEAE

Origin:
South-eastern Australia

Typical Height:
15-20 metres

Typical Width:
5-8 metres

Typical Growth rate:
Fast.

Typical Habit:
Extremely hardy, medium to large upright native tree with a sparsely foliaged canopy with long and weeping needle-like branchlets and rough dark grey-brown bark.

Foliage:
Dull dark green needle-like branchlets with tiny unseen clasping leaves. New growth has pink/ bronze colouring.

Flowers:
Inconspicuous rusty-pink furry covering to some outer branchlets

Fruit:
The fruit is a woody cone-like capsule which is retained on the younger woody stems.

Site requirements:
Tolerates a vast variety of soils in a full sun position. Drought and waterlogging resistant.

Photo of mature trees. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Corymbia eximia

Common Names:
Yellow Bloodwood

Family:
MYRTACEAE

Origin:
Sydney and Blue Mountains

Typical Height:
10-18 metres

Typical Width:
8-12 metres

Typical Growth rate:
Fast.

Typical Habit:
An erect and typically well proportioned hardy native tree with a prominently yellowish-brown flaky bark.

Foliage:
Glossy grey-green, curved lanceolate up to 18cm long.

Flowers:
Creamy yellow flowers, appearing late spring to summer.

Fruit:
Urn shaped woody capsules.

Site requirements:
Prefers well drained Hawkesbury Sandstone or sandy soils in an open sunny position, but appears tolerant of a variety of soil types. Drought resistant but frost tender.

Photo of mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Corymbia maculata

Common Names:
Spotted Gum

Family:
MYRTACEAE

Origin:
South-eastern Australia

Typical Height:
18-25 metres

Typical Width:
10-13 metres

Typical Growth rate:
Fast.

Typical Habit:
A tall growing native tree with smooth and straight trunk with attractively mottled, blue-grey, cream and sometimes pink or brown bark.

Foliage:
Large glossy dark green, curved lanceolate leaves.

Flowers:
White flowers occurring in winter to spring.

Fruit:
Urn-shaped woody capsule.

Site requirements:
Tolerates a wide range of soils in an open sunny position. Drought resistant, but frost tender before two years of age.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Cupaniopsis anacardiodies

Common Names:
Tuckeroo

Family:
SAPINDACEAE

Origin:
Coastal eastern Australia

Typical Height:
8-10 metres

Typical Width:
5-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
Medium sized native evergreen tree with a rounded and dense crown and neat form.

Foliage:
Leathery and glossy leaves with bronze coloured new growth.

Flowers:
Large clusters of small yellow flowers in spring to summer.

Fruit:
Orange 3-part fruit capsules.

Site requirements:
Tolerates a wide range of soils including poor modified sites. Full sun position. Salt and drought tolerant.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of foliage with prominent new growth. (Photo. Arterra)

Botanic Name:
Elaeocarpus eumundi

Common Names:
Eumundi Quondong

Family:
ELAEOCARPACEAE

Origin:
South-eastern Queensland

Typical Height:
10-12 metres

Typical Width:
3-5 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small native evergreen tree with an upright narrow form and dense glossy canopy.

Foliage:
Dark green glossy leaves with deep bronze- red new growth.

Flowers:
Bird attracting cream sweetly scented flowers in summer.

Fruit:
Dark blue round berries.

Site requirements:
Tolerates a wide range of soils but prefers rich moist soil in a full sun position.

Photo of a semi-mature tree. (Photo. Arterra)

Close up of foliage and flowers. (Photo. Arterra)

Botanic Name:
Elaeocarpus reticulatus

Common Names:
Blueberry Ash

Family:
ELAEOCARPACEAE

Origin:
Eastern Australia

Typical Height:
7-10 metres

Typical Width:
3-5 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small native evergreen tree with a typically upright narrow and dense form but somewhat more random canopy shape with age.

Foliage:
Dark green matt leaves with finely toothed edges.

Flowers:
Showy light pink to creamy white flowers in spring to summer.

Fruit:
Bright blue berries that give the tree its name.

Site requirements:
Tolerates a wide range of soils but prefers rich moist soil in a full sun position. Drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Eucalyptus haemastoma

Common Names:
Scribbly Gum

Family:
MYRTACEAE

Origin:
Sydney and Central Coast NSW

Typical Height:
10-15 metres

Typical Width:
10-12 metres

Typical Growth rate:
Fast.

Typical Habit:
Medium native evergreen tree with an open spreading crown and smooth white bark, usually with distinctive insect 'scribbles'.

Foliage:
Broad and stiff lanceolate leaves.

Flowers:
Showy clusters of creamy white flowers in winter to early summer.

Fruit:
Small urn-shaped capsule.

Site requirements:
Prefers shallow sandy soils but will tolerate a wide range of soils in a full sun position. Very drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of bark. (Photo. Arterra)

Botanic Name:
Eucalyptus mannifera

Common Names:
Brittle Gum

Family:
MYRTACEAE

Origin:
South-eastern Australia

Typical Height:
15-20 metres

Typical Width:
10-12 metres

Typical Growth rate:
Fast.

Typical Habit:
Medium to large native evergreen tree with smooth patchy white - grey bark that sheds in flakes, often becoming white and powdery. Similar to and often confused with Eucalyptus scoparia.

Foliage:
Relatively narrow and pendulous olive green leaves.

Flowers:
Bears white flowers in summer.

Fruit:
Urn shaped capsule.

Site requirements:
Tolerates a wide range of soils in a full sun position. Extremely drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Eucalyptus paniculata

Common Names:
Grey Ironbark

Family:
MYRTACEAE

Origin:
Coastal NSW

Typical Height:
20-25+ metres

Typical Width:
10-15 metres

Typical Growth rate:
Fast.

Typical Habit:
Large and typically upright native evergreen tree with an open spreading crown and hard and deeply fissured dark grey-brown bark.

Foliage:
Narrow and broadly pendulous lanceolate leaves.

Flowers:
Showy clusters of creamy white flowers in winter to early summer at end of branchlets.

Fruit:
Urn-shaped capsule.

Site requirements:
Tolerates a wide range of soils in a full sun position. Very drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Eucalyptus robusta

Common Names:
Swamp Mahogany

Family:
MYRTACEAE

Origin:
South-eastern Australia

Typical Height:
12-18 metres

Typical Width:
8-12 metres

Typical Growth rate:
Fast.

Typical Habit:
Medium native evergreen tree with a dense canopy and deeply furrowed reddish brown persistent bark. Very similar to, and often confused with, *Eucalyptus botryoides*.

Foliage:
Large dark green leaves with a pale under side.

Flowers:
Bears white nectar rich flowers in spring to autumn.

Fruit:
Urn shaped capsule.

Site requirements:
Tolerates water logged or heavily compacted soils in a full sun position. Drought tolerant.

Photo of mature tree. (Photo. Arterra)

Photo of mature tree. (Photo. Arterra)

Botanic Name:
Ficus microcarpa var. 'hillii'

Common Names:
Hills Weeping Fig

Family:
MORACEAE

Origin:
South-eastern Queensland

Typical Height:
20-25 metres

Typical Width:
20-25 metres

Typical Growth rate:
Fast.

Typical Habit:
A large, hardy native evergreen tree with a dense spreading crown and a large and stout trunk and lower branches with light grey bark.

Foliage:
Medium (8cm), glossy leathery bright green leaves with an elliptical shape, slightly pendulous towards the ends of the branches.

Flowers:
Insignificant.

Fruit:
Profuse rosy red or pink, small (1.2cm) round figs appearing in summer.

Site requirements:
Rich, moist soils in a protected, sunny position. Drought resistant but frost tender.

Photo of a mature tree. (Photo. Arterra)

Photo of a mature street tree. (Photo. Arterra)

Close up photo of fruit and leaves. (Photo. Arterra)

Botanic Name:
Ficus rubiginosa

Common Names:
Port Jackson Fig

Family:
MORACEAE

Origin:
South-eastern Australia

Typical Height:
15-20 metres

Typical Width:
15-20 metres

Typical Growth rate:
Moderate.

Typical Habit:
An erect, sturdy native tree with a heavy dense crown. The main trunk is buttressed and sometimes aerial roots are produced.

Foliage:
Dark green, smooth and ovate to elliptical shaped leaves up to 10cm long. Often rusty short hairs on the underside of leaf or sometimes smooth and without rusty colour when sourced from tropical northerly populations.

Flowers:
Insignificant.

Fruit:
Pairs of yellow globular figs. Mature in autumn

Site requirements:
Light to medium soils in an open, sunny position. Drought, frost and salt tolerant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Fraxinus griffithii

Common Names:
Evergreen Ash

Family:
ULMACAEAE

Origin:
India, China, South-east Asia

Typical Height:
6-9 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
A small to medium sized sturdy evergreen tree with a compact rounded shape.

Foliage:
Leaves are pale green above and silvery beneath.

Flowers:
White flowers appear in spring in long panicles at the branch tips.

Fruit:
Masses of single seeded winged samaras turning sandy-brown.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a semi-mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Botanic Name:
Fraxinus pennsylvanica

Common Names:
Green Ash / Red Ash

Family:
ULMACAEAE

Origin:
North America

Typical Height:
12-18 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
A medium to large robust deciduous tree with an attractive upright shape.

Foliage:
Leaves are dark green above and lighter beneath.

Flowers:
White flowers appear in spring in long panicles at the branch tips.

Fruit:
Single seeded winged samaras.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position. Very drought and frost tolerant.

Photo of a mature tree. (Photo.Arterra)

Photo of a semi-mature tree. (Photo.Arterra)

Close up photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Glochidion ferdinandi

Common Names:
Cheese Tree

Family:
EUPHORBIACEAE

Origin:
South-eastern Australia

Typical Height:
8-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Medium

Typical Habit:
Medium sized native evergreen tree with a spreading form and dense canopy. May require some formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Dark green glossy leaves.

Flowers:
Insignificant white flowers in spring.

Fruit:
Small round white fruit in summer that ripen to reddish brown resembling a miniature cheese wheel, but they are not edible.

Site requirements:
Full sun to partial shade. Adaptable to most soils but prefer richer moist soil.

Photo of a mature tree. (Photo. Arterra)

Close up photo of a flower. (Photo. Arterra)

Botanic Name:
Gordonia axillaris

Common Names:
Gordonia/ Fried Egg Plant

Family:
THEACEAE

Origin:
Southern China

Typical Height:
5-8 metres

Typical Width:
5-8 metres

Typical Growth rate:
Slow.

Typical Habit:
Small tree with a broad rounded canopy and smooth mottled grey- brown bark. May require some formative pruning to achieve clearances and promote a single leader and tree form. Slightly brittle branchlets, easily prone to breakage.

Foliage:
Large elongated dark green smooth glossy leaves.

Flowers:
The flowers have soft creamy white petals with central bright yellow- orange stamens, which give the appearance of a 'fried egg'.

Fruit:
The fruit is a dry five-valved capsule, with 1-4 seeds in each section.

Site requirements:
Prefers rich moist soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Harpullia pendula

Common Names:
Tulipwood

Family:
SAPINDACEAE

Origin:
Eastern Australia

Typical Height:
8-12 metres

Typical Width:
6-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small - medium native evergreen rainforest margin tree with a dense canopy and light grey to almost white bark.

Foliage:
Dark green glossy leaves.

Flowers:
Greenish-yellow to white flower in summer.

Fruit:
Attractive 2-lobed capsules are yellow-orange to red at maturity and split open to reveal dark glossy black seeds.

Site requirements:
Light to medium soil types in an open sunny position. Prefers moist conditions.

Photo of a mature tree in full bloom. (Photo. Arterra)

Photo of a mature tree in leaf. (Photo. Arterra)

Botanic Name:
Jacaranda mimosifolia

Common Names:
Jacaranda

Family:
BIGNONIACEAE

Origin:
Brazil

Typical Height:
10-15 metres

Typical Width:
8-10 metres

Typical Growth rate:
Fast.

Typical Habit:
A medium sized attractive semi-deciduous tree with an upright but spreading shape.

Foliage:
Fern-like bipinnate mid green foliage, turning yellow in late winter and falling just before flowering in spring.

Flowers:
Prolific terminal clusters of bell shaped mauve-blue flowers on leafless stems in spring.

Fruit:
Flattened disc-like seed pods.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Koelreuteria bipinnata

Common Names:
Chinese Rain tree

Family:
SAPINDACEAE

Origin:
China

Typical Height:
10-15 metres

Typical Width:
8-10 metres

Typical Growth rate:
Slow.

Typical Habit:
An attractive medium-sized deciduous and wide spreading tree. It has a domed crown and furrowed bark.

Foliage:
Mid green leaflets turn deep golden yellow to orange in autumn. Bipinnate foliage about 60cm long.

Flowers:
Large cluster of yellow flowers with very large terminal panicles up to 30cm long appear in summer.

Fruit:
Fruit capsule appears as papery bladder-like pinkish brown pods.

Site requirements:
Well drained soil in full to part shade locations. Frost and drought resistant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Koelreuteria paniculata

Common Names:
Golden Rain tree

Family:
SAPINDACEAE

Origin:
China, Korea, Japan

Typical Height:
7-9 metres

Typical Width:
7-9 metres

Typical Growth rate:
Slow.

Typical Habit:
An attractive small-sized deciduous and spreading tree. It has a domed crown and furrowed bark.

Foliage:
Mid green leaflets turn deep golden yellow to orange in autumn. Pinnate foliage about 30cm long.

Flowers:
Large cluster of yellow flowers with large terminal panicles up to 20cm long appear in summer.

Fruit:
Fruit capsule appears as papery bladder-like pinkish brown pods.

Site requirements:
Well drained soil in full to part shade locations. Frost and drought resistant.

Photo of mature tree. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Photo of autumn foliage colour. (Photo. Arterra)

Botanic Name:
Lagerstroemia indica cv.
most suitable cultivars:- 'Biloxi' (Pale Pink), 'Natchez' (White), 'Tuscarora' (Dark pink)

Common Names:
Crepe Myrtle

Family:
LYTHRACEAE

Origin:
Japan, Korea, China

Typical Height:
7-10 metres

Typical Width:
4-7 metres

Typical Growth rate:
Moderate.

Typical Habit:
A small deciduous tree with an open spreading rounded head. It has smooth beige coloured bark streaked red brown. Formative pruning may be required to achieve clearances.

Foliage:
Small oval leaves.

Flowers:
Papery frilly pale mauve, pink or white flowered cultivars. Flower heads appear at the tip of the current season's growth.

Fruit:
Rounded pea-sized woody capsules.

Site requirements:
Well drained soil in full sun locations. Forms a shapely vase-shaped tree without any pruning but also very tolerant of repeated and hard pruning if required.

Photo of a semi- mature tree. (Photo. Arterra)

Close up photo of leaves. (Photo. Arterra)

Botanic Name:
Liriodendron tulipifera

Common Names:
Tulip tree

Family:
MAGNOLIACEAE

Origin:
North America

Typical Height:
12-18 metres

Typical Width:
6-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
Medium to large and columnar deciduous tree with upright branching.

Foliage:
Distinctly shaped-four shallow lobed, mid to lime green leaves up to 20cm long, turning to a rich golden yellow in autumn.

Flowers:
Lightly fragrant, tulip shaped flowers, greenish yellow in colouring with orange markings, late spring to early summer. Only produces flowers if greater than 7 years.

Fruit:
Samaras, borne in upright cone like clusters.

Site requirements:
Moist, well drained soil in full sun locations. Not tolerant of extreme or coastal exposure.

Photo of a mature tree. (Photo. Arterra)

Botanic Name:
Livistona australis

Common Names:
Cabbage Tree Palm

Family:
ARECACEAE

Origin:
Eastern Australia

Typical Height:
15-20 metres

Typical Growth rate:
Slow.

Typical Habit:
Tall palm tree, with a single study fibrous to smooth grey trunk and a compact head of fan shaped leaves. It has a slender trunk that shows scars left by the shed fronds.

Foliage:
Large semi- circular shiny dark green fronds with drooping tips are located at the apex of the trunk. Often the lower leaves in the crown persist for a short period even though they are dead or have turned brown. The frond stalks are long and have spikes.

Flowers:
Long sprays of yellow cream flowers are borne in spring.

Fruit:
Dull purple-black grape-sized globular fruit.

Site requirements:
Prefers moist but reasonably well drained, neutral acid soils. Will tolerant very shaded positions and coastal exposure.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves and fruit. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Lophostemon confertus

Common Names:
Brush Box

Family:
MYRTACEAE

Origin:
Eastern Australia north of Sydney

Typical Height:
15-20 metres

Typical Width:
8-12 metres

Typical Growth rate:
Fast.

Typical Habit:
A tall, sturdy evergreen native tree with rough bark at the base and smooth pinkish bark above peeling in summer to reveal greenish cream new bark. A densely spreading crown with domed head.

Foliage:
Deep green, ovate to acuminate and 15cm long.

Flowers:
White, dainty, 5 petalled and fragrant flowers with long fluffy stamens appearing in spring.

Fruit:
Small woody capsules.

Site requirements:
Sandy to medium soils in an open, sunny position, but tolerant of an extremely wide range of soils and conditions. Drought and frost tolerant.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of the large and fragrant flowers. (Photo. Arterra)

Botanic Name:
Magnolia grandiflora 'Exmouth'

Common Names:
Southern Magnolia/ Bull Bay Magnolia

Family:
MAGNOLIACEAE

Typical Height:
8-12 metres

Origin:
Southern USA

Typical Width:
6-8 metres

Typical Growth rate:
Slow.

Typical Habit:
Medium evergreen tree with spreading conical crown.

Foliage:
Glossy green, ovate to oblong, leathery with undulating margins and burgundy brown underside.

Flowers:
Large cup shaped flowers, pale yellow or cream, 25cm across and fragrant, appearing in summer.

Fruit:
Cucumber-like woody pods with bright red seeds.

Site requirements:
Neutral to acid soils in an open, sunny position. Frost resistant but drought tender.

Photo of a mature tree. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Melaleuca bracteata

Common Names:
Black Tea-Tree

Family:
MYRTACEAE

Origin:
Australia, north of Macleay River

Typical Height:
8-10 metres

Typical Width:
5-6 metres

Typical Growth rate:
Fast.

Typical Habit:
A small to medium, erect evergreen tree with white to cream papery/ spongy dark coloured bark, spreading pendant branches on older trees and a finely foliaged crown.

Foliage:
Small and thin lanceolate leaves, 1-2cm long.

Flowers:
Small white-cream, bottle brush-like flowers appearing throughout spring and summer.

Fruit:
Small woody capsules on a spike.

Site requirements:
Prefers moist soils in an open, sunny position, but tolerates a very wide range of soils and conditions. Drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves. (Photo. Arterra)

Close up photo of bark. (Photo. Arterra)

Botanic Name:
Melaleuca leucadrendra

Common Names:
Weeping Paperbark

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
15-18 metres

Typical Width:
5-7 metres

Typical Growth rate:
Moderate to Fast.

Typical Habit:
A tall, weeping evergreen tree with white to cream papery/ spongy bark, spreading twisted pendant branches and a densely textured crown.

Foliage:
Thick lanceolate, sickle-shaped leaves, 10cm long, and prominently veined.

Flowers:
Small cream, bottle brush-like appearing in spring and summer.

Fruit:
Small woody capsules on a spike.

Site requirements:
Prefers moist soils in an open, sunny position, but tolerates a very wide range of soil conditions. Drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves. (Photo. Arterra)

Close up photo of flowers. (Photo. Arterra)

Botanic Name:
Melaleuca styphelioides

Common Names:
Prickly Paperbark

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
7-10 metres

Typical Width:
6-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
Medium evergreen tree with creamy white papery bark.

Foliage:
Small slightly twisted leaves with a sharp pointed tip.

Flowers:
Small but profuse white 'bottlebrush' like flowers in summer.

Fruit:
The fruit are small nut-like capsules which are retained on old stems.

Site requirements:
Light soil types in an open sunny position.
Salt tolerant and drought resistant.

Photo of a mature tree. (Photo. Arterra)

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of flowers and foliage. (Photo. Arterra)

Botanic Name:
Murraya paniculata

Common Names:
Orange Jessamine / Mock Orange

Family:
RUTACEAE

Origin:
India

Typical Height:
4-6 metres

Typical Width:
3-4 metres

Typical Growth rate:
Fast.

Typical Habit:
Small tree or large shrub with a broad rounded canopy and smooth mottled grey- brown bark. Formative pruning may be required to achieve suitable tree shape and clearances.

Foliage:
Bright green, smooth and glossy leaves.

Flowers:
The small but fragrant flowers have soft creamy-white petals variously throughout the year.

Fruit:
Inconspicuous small elliptical hairy seeds.

Site requirements:
Prefers rich moist soils in a full sun or part shade position, but adaptable to an extremely wide range of conditions.

Photo of a row of mature trees. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Close up photo of trunk. (Photo. Arterra)

Botanic Name:
Phoenix canariensis

Common Names:
Canary Island Date Palm

Family:
ARECACEAE

Origin:
Canary Islands

Typical Height:
10-15 metres

Typical Width:
6-8 metres

Typical Growth rate:
Slow.

Typical Habit:
Thick trunked palm tree with long fronds that forms a dense rounded crown.

Foliage:
Long fronds that have stiff leaves and sharp spines at the base.

Flowers:
Small yellow flowers grow in clusters amongst the fronds.

Fruit:
Large grape-sized dates up to 8cm long which are cylindrical and orange when ripe.

Site requirements:
Full sun, however will tolerate some shade, and very tolerant of exposure and salt laden winds and poor soils. Now at risk from the spread of Fusarium Wilt which can kill infected trees.

Photo of a mature tree. (Photo. Arterra)

Close up photo of a flower and foliage. (Photo. Arterra)

Botanic Name:
Photinia x faseri 'Robusta'

Common Names:
Photinia

Family:
ROSACEAE

Origin:
Japan, China ('Robusta' hybrid originated in Sydney)

Typical Height:
4-6 metres

Typical Width:
4-6 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small exotic tree with a broadly domed crown and compact form and multiple trunks. May require some formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Leathery very dark green leaves. New growth often vibrant red to bronze colouring.

Flowers:
Small creamy white flowers held in dense clusters in spring to early summer, but may spot flower at other times.

Fruit:
The fruit are small firm and reddish brown pea sized pomes.

Site requirements:
Tolerates an extremely wide range of soils in a full sun or partly shaded position. Very drought and frost resistant.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves and flowers. (Photo. Arterra)

Botanic Name:
Pyrus calleryana 'Chanticleer'

Common Names:
Callery Pear / Glens Form Pear

Family:
ROSACEA

Origin:
China, Korea, Japan

Typical Height:
6-8 metres

Typical Width:
3-4 metres

Typical Growth rate:
Moderate.

Typical Habit:
A small sized upright deciduous tree. It has attractive foliage and a dense habit.

Foliage:
Lustrous dark green leaves to 8cm long that turn gold to plum in autumn.

Flowers:
Masses of white flowers to 20mm wide produced in spring.

Fruit:
Small, dull gold to russet coloured fruit.

Site requirements:
Frost tolerant, drought tender.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves. (Photo. Arterra)

Botanic Name:
Pyrus ussuriensis

Common Names:
Manchurian Pear

Family:
ROSACEA

Origin:
China, Korea, Japan

Typical Height:
8-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
A medium sized spreading deciduous tree. It has attractive foliage and a dense habit.

Foliage:
Lustrous dark green leaves to 8cm long that turn gold to plum in autumn.

Flowers:
Masses of white flowers to 20mm wide produced in spring.

Fruit:
Small, dull gold to russet coloured fruit.

Site requirements:
Frost tolerant, but can be drought tender.

Photo of a mature tree. (Photo. Arterra)

Close up photo of leaves. (Photo. Arterra)

Botanic Name:
Robinia pseudoacacia 'Frisia'

Common Names:
Golden Robinia / Black Locust

Family:
FABACEAE

Origin:
North America

Typical Height:
10-12 metres

Typical Width:
7-9 metres

Typical Growth rate:
Fast.

Typical Habit:
An attractive hardy deciduous tree with a tall upright vase shape.

Foliage:
Soft bright golden fern like foliage.

Flowers:
Pendulous racemes of white pea shaped flowers.

Fruit:
Small flat seed pods.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Photo of autumn foliage. (Photo. Arterra)

Botanic Name:
Sapium sebiferum
(Syn. Triadica sebiferum)

Common Names:
Chinese Tallow Tree

Family:
EUPHORBIACEAE

Origin:
Southern China

Typical Height:
10-12 metres

Typical Width:
6-8 metres

Typical Growth rate:
Fast.

Typical Habit:
An attractive medium sized deciduous tree with a domed spreading crown.

Foliage:
Soft bright green leaves are heart shaped with a pointed tip. Turns to a deep orange- red in autumn. Can be susceptible to white waxy scale.

Flowers:
Spikes of greenish to yellow flowers in late spring.

Fruit:
White round pea sizes seed pods.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Schinus areira
(Syn. Schinus molle)

Common Names:
Peppercorn Tree

Family:
ANACARDIACEAE

Origin:
Peruvian Andes

Typical Height:
10-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
Spreading evergreen tree with fine textured weeping branches.

Foliage:
Finely divided pinnate leaves that have an aromatic resin.

Flowers:
Small yellow- white flowers in spring.

Fruit:
Clusters of small pea size red berries.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position. Very drought tolerant.

Photo of a mature tree. (Photo. Arterra)

Close up of bark. (Photo. Arterra)

Botanic Name:
Syncarpia glomulifera

Common Names:
Turpentine

Family:
MYRTACEAE

Origin:
East Coast Australia

Typical Height:
12-18 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
Large dense native tree with broadly columnar form with horizontal branching structure.

Foliage:
Stiff and dark dull green leaves with a grey furry underside.

Flowers:
Profuse fluffy white flower clusters in summer.

Fruit:
Hard, marble-sized globular wood capsule.

Site requirements:
Tolerates a wide range of soils but prefers heavier clay based soils in a full sun or part shade position.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Synoum glandulosum

Common Names:
Scentless Rosewood

Family:
MELIACEAE

Origin:
East Coast Australia

Typical Height:
6-8 metres

Typical Width:
4-5 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small bushy rainforest margin native tree. May require formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Small glossy mid-green leaves.

Flowers:
Inconspicuous white flowers in late summer.

Fruit:
Reddish three-lobed capsule.

Site requirements:
Tolerates a wide range of soils but prefers rich moist soil in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Syzygium leuhmannii

Common Names:
Riberry

Family:
MYRTACEAE

Origin:
East Coast Australia

Typical Height:
8-10 metres

Typical Width:
5-6 metres

Typical Growth rate:
Moderate.

Typical Habit:
Small bushy rainforest native tree. May require formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Small glossy dark green leaves with a prominent pointed tip. Flushes of new growth in pale pink to red.

Flowers:
Bird attracting small fluffy white flowers in summer.

Fruit:
Small pink round shaped fleshy fruit, sometimes prolific.

Site requirements:
Tolerates a wide range of soils but prefers rich moist soil in a full sun or part shade position.

Photo of a semi-mature tree. (Photo. Arterra)

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and fruit. (Photo. Arterra)

Botanic Name:
Syzygium paniculatum

Common Names:
Brush Cherry, Magenta Lilly Pilly

Family:
MYRTACEAE

Origin:
Coastal NSW

Typical Height:
9-15 metres

Typical Width:
6-9 metres

Typical Growth rate:
Fast.

Typical Habit:
Small to medium bushy rainforest native tree. May require some formative pruning to achieve clearances and promote a single leader and tree form.

Foliage:
Glossy dark green leaves with coppery new growth.

Flowers:
Bird attracting small fluffy white flowers in summer.

Fruit:
Small pink pear shaped fleshy fruit.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and flowers. (Photo. Arterra)

Botanic Name:
Tibouchina lepidota 'Alstonville'

Common Names:
Lasiandra

Family:
MELASTOMATACEAE

Origin:
Tropical South America

Typical Height:
6-9 metres

Typical Width:
6-9 metres

Typical Growth rate:
Fast - moderate.

Typical Habit:
Small to medium bushy exotic tree. May require some formative pruning to achieve clearances and promote central leaders and tree form.

Foliage:
Dark green lanceolate shaped eaves with prominent veins, paler on the undersurface and coarse to the touch.

Flowers:
Vibrant and prolific purple panicles that can almost cover the tree in late summer to early winter.

Fruit:
Small and fur covered woody urn-shaped capsule similar in size and shape to a Eucalypt gum nut.

Site requirements:
Tolerates a relatively wide range of soils, but prefers a rich well drained soil, in a warm and full sun position. Drought and frost tender.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage and flower. (Photo. Arterra)

Botanic Name:
Tristaniopsis laurina

Common Names:
Water Gum

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
7-10 metres

Typical Width:
5-6 metres

Typical Growth rate:
Moderate to fast.

Typical Habit:
Very hardy small sized native evergreen tree with a dense canopy.

Foliage:
Oblong glossy dark green leaves with a pale underside.

Flowers:
Nectar rich small yellow flowers in summer.

Fruit:
Small round green fleshy fruit.

Site requirements:
Tolerates a wide range of soils in a full sun or part shade position.

Photo of a mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Ulmus parvifolia 'Todd'

Common Names:
Chinese Elm

Family:
ULMACEAE

Origin:
China, Japan, Korea

Typical Height:
10-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
A medium domed spreading semi -deciduous tree. It has a two toned grey, reddish brown scaly bark.

Foliage:
Small serrated, leathery dark green leaves which are smooth and shiny on top.

Flowers:
Yellow- green papery flowers.

Fruit:
Small brown winged seeds that mature in autumn.

Site requirements:
This is a very hardy tree that tolerates wind, pollution and a wide range of soil conditions.

Photo of a mature tree. (Photo. Arterra)

Botanic Name:
Washingtonia robusta

Common Names:
Mexican Fan Palm

Family:
ARECACEAE

Origin:
California USA

Typical Height:
20-25 metres

Typical Width:
4-6 metres

Typical Growth rate:
Moderate.

Typical Habit:
A tall palm tree with a thin trunk which flares at the base. Spent fronds can persist on the trunk for some time. Older specimens have smooth grey trunks.

Foliage:
Shiny bright green circular fronds with prominent red brown basal sheaths and cottony threads.

Flowers:
Small white flower clusters at intervals on long flowering branches that arch out well beyond the lower fronds.

Fruit:
Tiny brown berry-like fruits.

Site requirements:
Full sun, however will tolerate some shade, and salt laden winds and poor soil.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of foliage and flowers. (Photo. Arterra)

Botanic Name:
Waterhousea floribunda 'Green Avenue'

Common Names:
Weeping Lilly Pilly

Family:
MYRTACEAE

Origin:
Eastern Australia

Typical Height:
18-20 metres

Typical Width:
10-12 metres

Typical Growth rate:
Fast.

Typical Habit:
Very hardy medium sized native evergreen tree with a dense pendulous canopy. Formative pruning may be required to achieve clearances and promote a single leader and tree form.

Foliage:
Glossy dark green leaves with paler underside and slightly wavy margins.

Flowers:
Nectar rich small white flowers in summer.

Fruit:
Small round and green berry-like fleshy fruit.

Site requirements:
Tolerates a wide range of soils but prefers rich moist soil in a full sun or part shade position.

Photo of a semi-mature tree. (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Xanthostemon chrysanthus

Common Names:
Golden Penda

Family:
MYRTACEAE

Origin:
North-eastern Australia

Typical Height:
7-10 metres

Typical Width:
5-8 metres

Typical Growth rate:
Moderate.

Typical Habit:
An attractive evergreen small tree with a rounded spreading crown.

Foliage:
Attractive, glossy mid green foliage.

Flowers:
Conspicuous and often prolific yellow flowers.

Fruit:
Brown woody capsule.

Site requirements:
Tolerates a wide range of soils in a full sun position, but frost sensitive.

Photo of a mature tree (pruned under wires). (Photo. Arterra)

Close up photo of foliage. (Photo. Arterra)

Botanic Name:
Xylosma senticosum
(Syn. Xylosma congestum)

Common Names:
Xylosma

Family:
SALICACEAE

Origin:
Southern China

Typical Height:
6-8 metres

Typical Width:
4-6 metres

Typical Growth rate:
Fast.

Typical Habit:
An attractive evergreen small tree with a rounded spreading crown. Formative pruning may be required to achieve clearances and promote a single leader and tree form.

Foliage:
Attractive, weeping, slightly serrated foliage, the orange and bronze tipped new leaves which age to a glossy mid green.

Flowers:
Inconspicuous small fragrant yellow flowers.

Fruit:
Small purple-black berry.

Site requirements:
Tolerates a wide range of soils in a full sun position, and capable of withstanding frequent hard pruning to any shape with minimal impact.

Photo of a semi-mature tree. (Photo. Arterra)

Photo of bark. (Photo. Arterra)

Close up photo of foliage and flowers. (Photo. Arterra)

Botanic Name:
Zelkova serrata 'Green Vase'

Common Names:
Japanese Zelkova

Family:
ULMACEAE

Origin:
Japan and Korea

Typical Height:
10-12 metres

Typical Width:
8-10 metres

Typical Growth rate:
Moderate.

Typical Habit:
An attractive deciduous tree with a wide spreading crown.

Foliage:
Pointed oblong serrated leaves are mid to dark green, turning yellow in autumn.

Flowers:
Small greenish flowers borne in spring and lightly perfumed.

Fruit:
Round insignificant seed pods.

Site requirements:
Tolerates a wide range of soils in a full sun position.