



Planting

I.01

New Tree - Mall / Plaza

Function

- Tree grates are required for new trees in high quality special places like Urban Plazas.
- Install where there is a high level of pedestrian activity.
- The use of continuous planting trenches, structural soil, structural cells, WSUD components, suspended pavements and other tree planting technology will be considered based on specific site conditions. Actual designs shall be developed and submitted to Council based on these technical details for consideration prior to installation.

Supplier

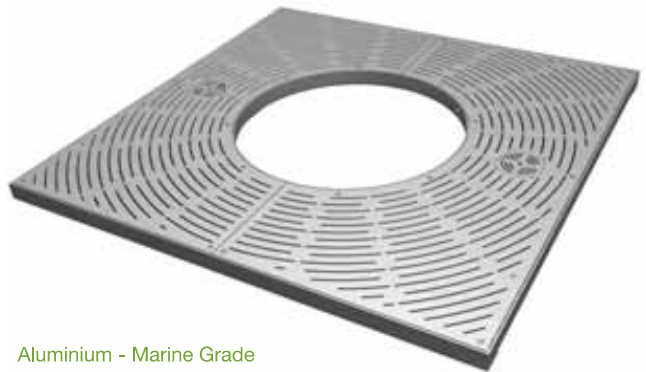
- Contractor to organise

Materials and Dimensions

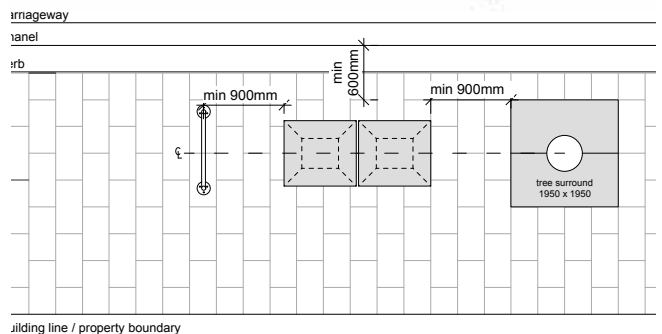
- Typical tree grate 1200 x 1200mm or sized to suit the size of paving units in the dominate surrounding paving to avoid cuts
- Tree species and container size as specified
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Tree saplings shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site should be maintained until planted and clearly labelled.

Installation

- Tree Grate to be installed to manufacturer's specifications.
- Because of the presence of awnings or for streets with constrained width (less than 2.5 metres) butt tree grates to back of kerb.
- For streets that are wider than 2.5-3m allow 300mm header.
- Align street furniture such as bins and bike racks to the centre of the tree pit where applicable.



Aluminium - Marine Grade



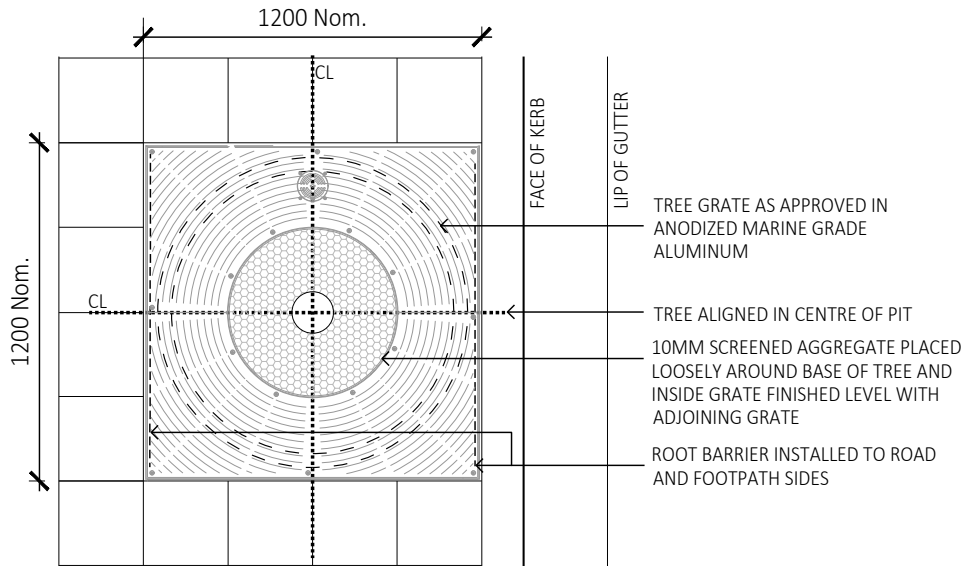
Typical layout - New Tree with tree grates

Maintenance

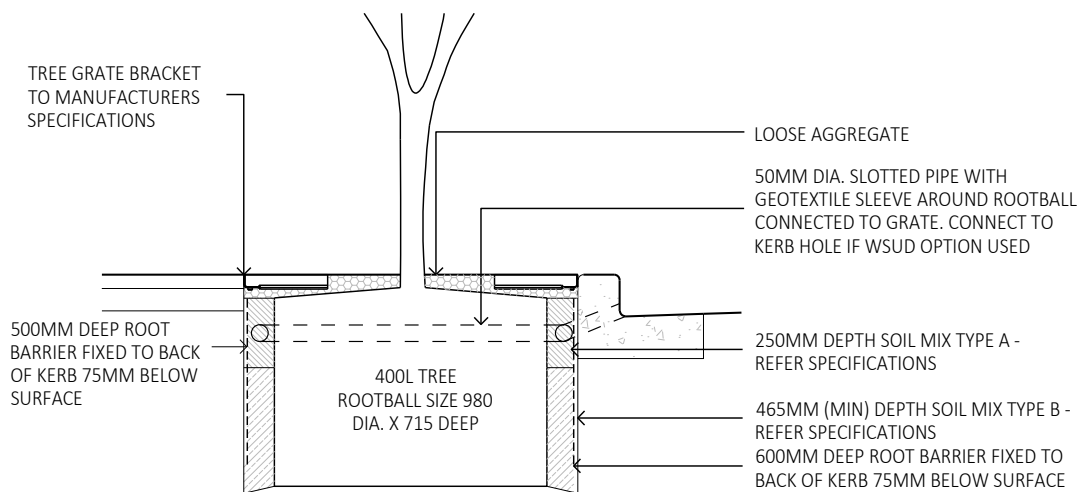
- Throughout the planting establishment period, carry out maintenance work including watering, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, watering, pruning, replenishment and restoration of mulch.
- The tree grate to be maintained to manufacturer's specifications

Refer towards the end of this section for stormwater quality improvement principles and bioretention tree pit detail applications.

Planting New Tree - Mall / Plaza



D01 NEW STREET TREE (400L) WITH TREE GRATE - PLAN
Scale 1:25



D02 NEW STREET TREE (400L) WITH TREE GRATE - DETAIL
Scale 1:25

NOTE:

1. TREE PIT SURROUND TO BE SIZED TO ALLOW 300MM X 300MM UNIT PAVING TRIM WITHOUT CUTTING PAVERS
2. STRUCTURAL ROOT CELLS TO BE USED IN CONJUNCTION WITH THESE TREE PITS WHEREVER POSSIBLE
3. WSUD OPTION: SHALL BE INSTALLED IN SANDY SOIL, ONLY AS DIRECTED BY THE COUNCIL

I.02

New Street Tree - Urban

Function

- Porous resin aggregate to be used throughout Bondi Junction, all Local and Strategic Centres, parks and open spaces (when applicable) around new trees to contribute to the quality and character of the streetscape.
- 400 L trees to be used for Bondi Junction
- 200 L trees to be used for local centres
- The use of continuous planting trenches, structural soil, structural cells, WSUD components, suspended pavements and other tree planting technology will be considered based on specific site conditions. Actual designs shall be developed and submitted to Council based on these technical details for consideration prior to any installation.

Supplier

- Contractor to nominate based on below specifications.

Materials and Dimensions

- 400 L Trees as specified for Bondi Junction
- 200 L Trees as specified for all other local centres
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Tree saplings shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be maintained until planted and clearly labelled.
- Porous Resin Aggregate as specified and approved

Installation

- Approved porous resin aggregate to replace existing stone set pits.
- Porous resin aggregate surrounds to be premixed, finished smooth, and level to adjacent surfaces and to a nominated depth and distance away the trunk of the tree.
- Aggregate shall be pea gravel mulch sieved to 7mm and an inert binder.
- Typical new tree porous resin aggregate tree surround 1200 x 1200 mm or sized to suit the size of paving units in the dominant surrounding paving to avoid cuts in case of a varied pit size.
- For light washed concrete and other concrete paths



Typical Layout - Tree Surround

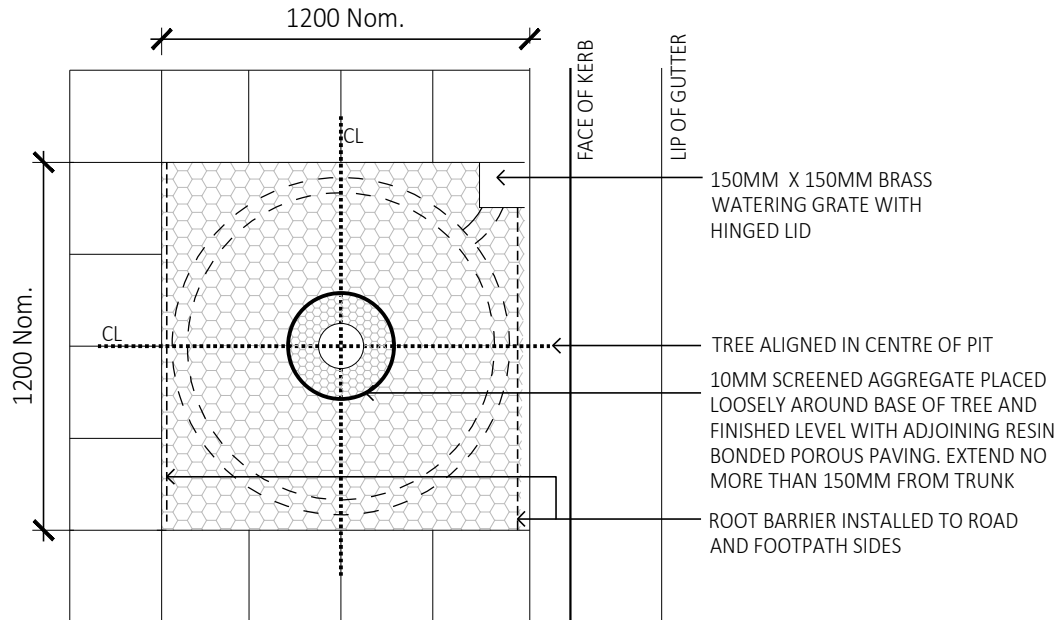
colour type 1 (pyramid hill grey) to be used. Refer detailed specifications for colours.

- For paved areas with paving types, 1, 2 and 3, resin aggregate colour type 2 (dark Grey) to be used.
- The porous resin aggregate should not be used as a continuous footpath treatment.
- Resin aggregate to be positioned accordingly if the tree pit size is different based on instructions.
- Ensure settlement of tree prior to installation of the resin aggregate.
- Because of the presence of awnings or for streets with minimum width (less than 2.5 metres) butt the resin aggregate to back of kerb.
- For streets that are wider than 2.5-3m allow 300mm header.
- Align street furniture such as bins and bike racks to the centre of the tree pit where applicable.

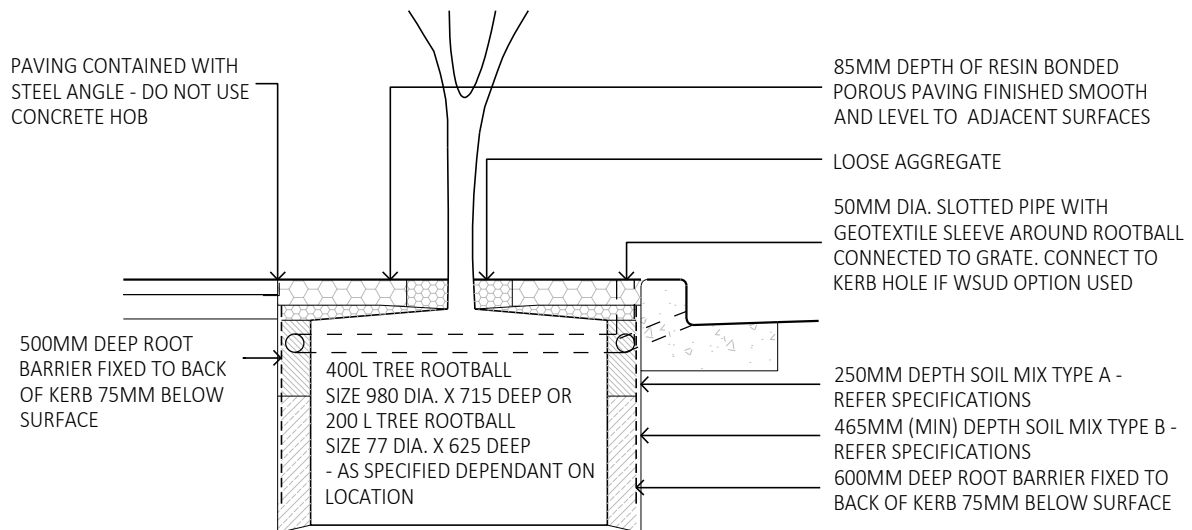
Maintenance

- Throughout the planting establishment period, carry out maintenance work including watering, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, watering, pruning, replenishment and restoration of mulch.
- The porous resin aggregate to be maintained to manufacturer's specifications

Planting New Street Tree - Urban



D01 NEW STREET TREE WITH POROUS RESIN AGGREGATE - PLAN
Scale 1:25



D02 NEW STREET TREE WITH POROUS RESIN AGGREGATE - DETAIL
Scale 1:25

NOTE:

1. TREE PIT SURROUND TO BE SIZED TO ALLOW 300MM X 300MM UNIT PAVING TRIM WITHOUT CUTTING PAVERS
2. STRUCTURAL ROOT CELLS TO BE USED IN CONJUNCTION WITH THESE TREE PITS WHEREVER POSSIBLE
3. WSUD OPTION: SHALL BE INSTALLED IN SANDY SOIL, ONLY AS DIRECTED BY THE COUNCIL

I.03

Existing Tree - Urban

Function

- Porous resin aggregate to be used throughout Bondi Junction, all Local and Strategic Centres, parks and open spaces (when applicable) around existing trees to contribute to the quality and character of the streetscape.

Supplier

- Contractor to nominate based on below specifications.

Materials and Dimensions

- Porous Resin Aggregate as specified & approved
- Approved porous resin aggregate to replace existing stone set pits.
- Aggregate shall be pea gravel mulch sieved to 7mm and an inert binder.
- Typical porous resin aggregate tree surround sized to suit the size of paving units in the dominant surrounding paving to avoid cuts.
- For light washed concrete and other concrete paths colour type 1 (pyramid hill grey) to be used. Refer detailed specifications for colours.
- For paved areas with paving types, 1, 2 and 3, resin aggregate colour type 2 (dark Grey) to be used.
- The porous resin aggregate should not be used as a continuous footpath treatment.
- Tree pit sizes may vary and resin aggregate to be positioned accordingly.
- Because of the presence of awnings or for streets with minimum width (less than 2.5 3metres) butt the resin aggregate to back of kerb.
- For streets that are wider than 2.5-3m allow 300mm header.

Installation

- Porous resin aggregate surrounds to be premixed, finished smooth, and level to adjacent surfaces and to a nominated depth and distance away the trunk of the tree.
- Where required & indicated, the existing pavement shall be cut by a road-saw to dimensions given. Cutting shall be only at right angles and parallel to the kerb. Cut shall have a straight edge and smooth face.

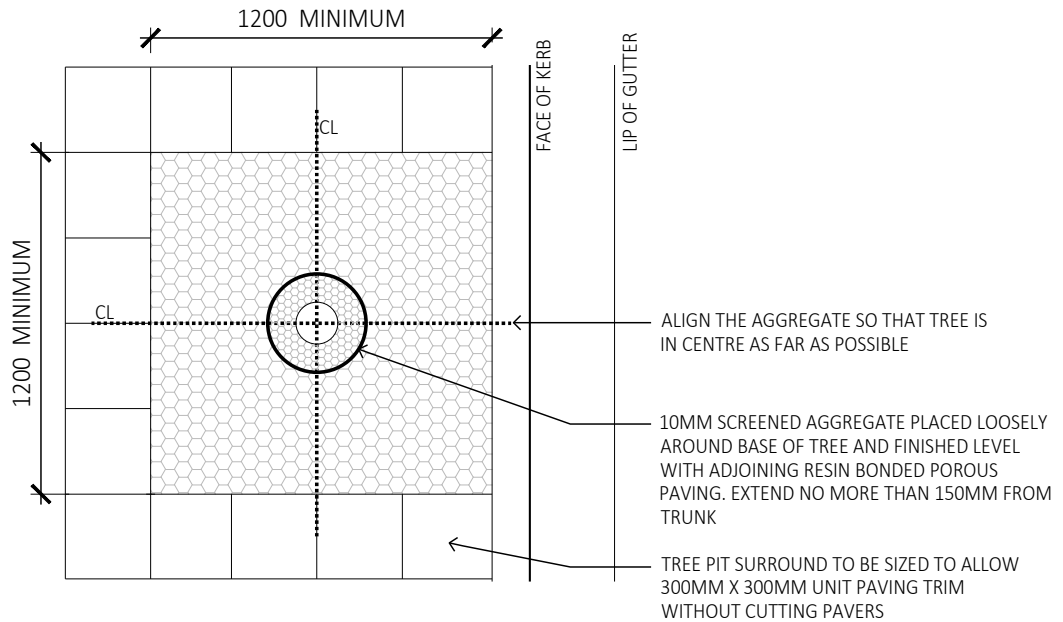
Maintenance

- Reinstate and make good to match exactly the surrounding pavement, to the satisfaction and approval of Council, all pavement, paving, concrete, brick or other surface damaged or affected by the tree base installation works.
- The porous resin aggregate to be maintained to manufacturer's specifications

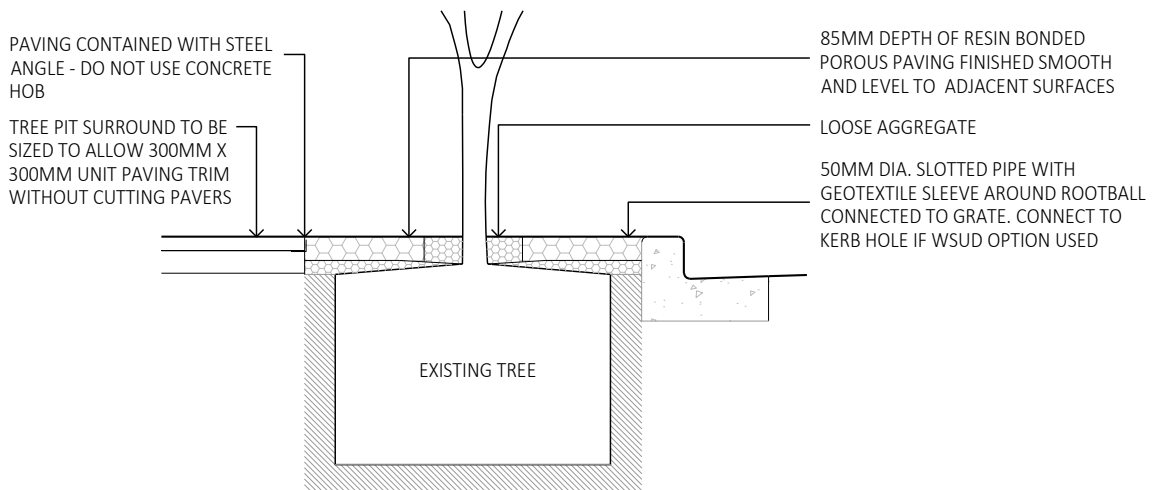


Typical Layout - Tree Surround





D01 EXISTING STREET TREE WITH NEW POROUS RESIN AGGREGATE - PLAN
Scale 1:25



D02 EXISTING STREET TREE WITH NEW POROUS RESIN AGGREGATE - DETAIL
Scale 1:25

I.04

New Tree - Parks

Function

- The new tree planting details are to be used for planting in parks and reserves.

Supplier

- Contractor or Council to organise.

Materials and Dimensions

- Tree species and container size as specified;
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury.
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be maintained until planted and clearly labelled.

Installation

- Excavate a hole twice the diameter of the root ball. Break up the base of the hole to a depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth. Root ball should be placed on level and compacted subgrade.
- Supply and install 3 or 4 wooden stakes for all trees planted up to 75 litres in size and attach black mesh where detailed.
- Thoroughly water plants before and after planting, and as required to maintain growth rates.
- Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
- Mulch shall be spread evenly to a depth of 75mm.
- Mulch shall be kept 50mm from stems to avoid collar rot.
- Watering shall be carried out on a regular basis twice weekly for the first 2 weeks and then as required according to weather conditions, rainfall and soil type.

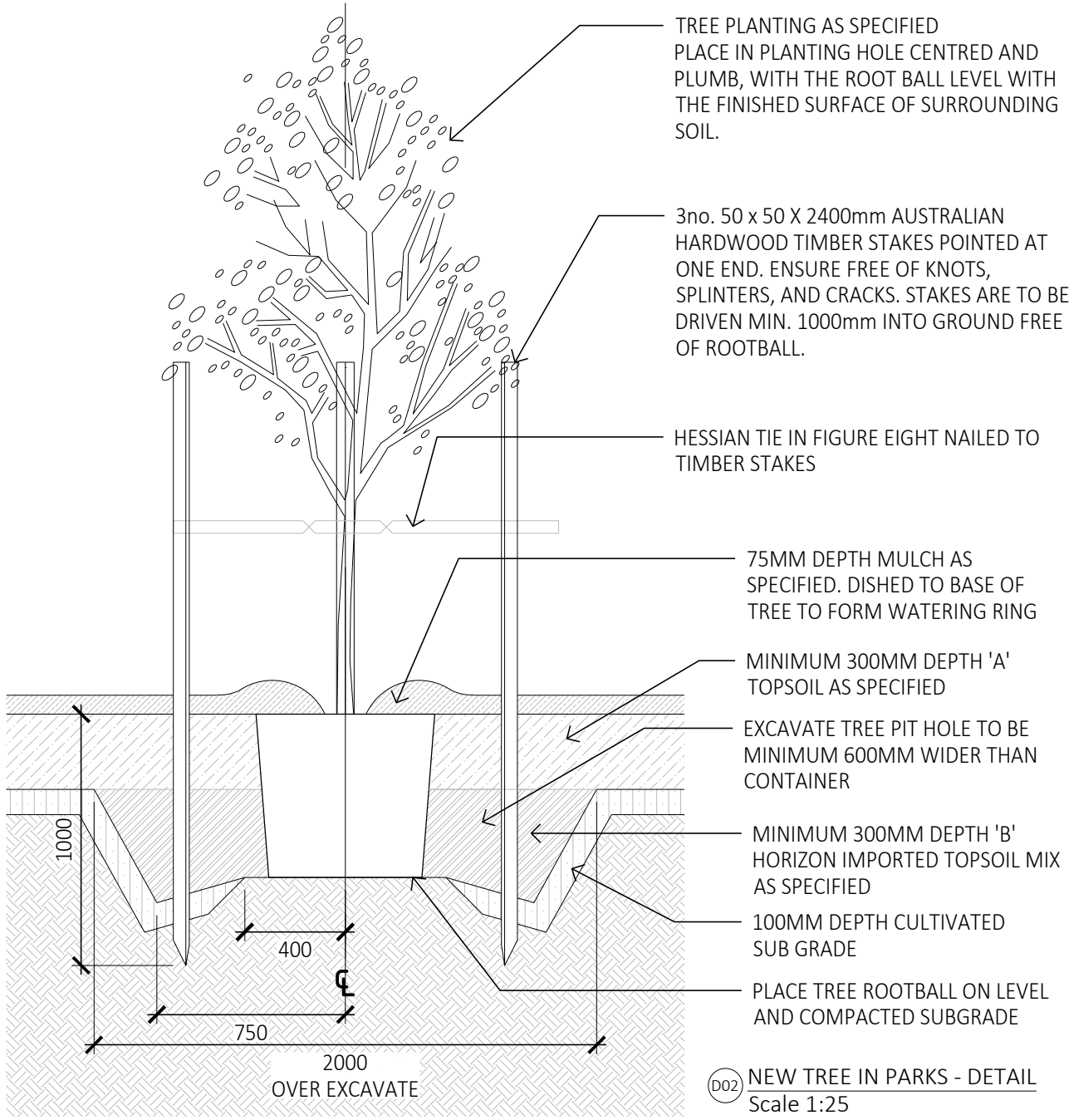
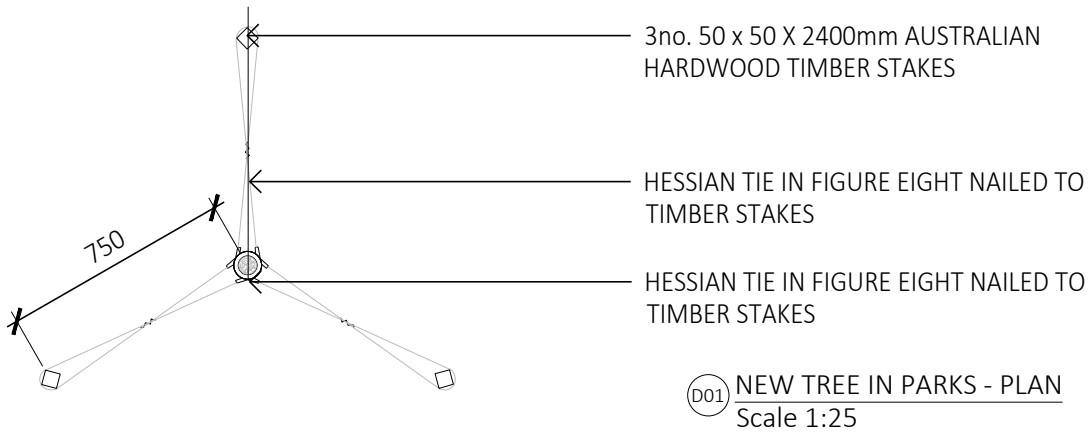


Typical Layout - Tree Surround
- image is representational only

Maintenance

- Recurrent works – Throughout the planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of mulch, top dressing and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, weeding, watering, pruning, replenishment and restoration of mulch.

Planting New Tree - Parks



I.05

New Street Tree - Nature Strip

Function

- The new street tree in mulch details are to be used for planting in all Local and Strategic Centres, parks and open spaces (when applicable) where specified, to contribute to the quality and character of the streetscape.
- 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 and submitted to Council based on these technical details for consideration prior to any installation.

Supplier

Contractor or Council to organise.

Materials and Dimensions

- Tree species and container size as specified;
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be maintained until planted and clearly labelled.
- Mulch as specified to a maximum depth of 75 mm. Mulch shall be free of deleterious and extraneous matter, including soil, weeds, rocks, twigs and the like.

Installation

- Excavate a hole twice the diameter of the root ball. Break up the base of the hole to a depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth. Root ball should be placed on level and compacted subgrade.
- Thoroughly water plants before and after planting, and as required to maintain growth rates.
- Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
- Mulch shall be spread evenly to a depth of 75mm.
- Mulch shall be kept 50mm from stems to avoid collar rot.



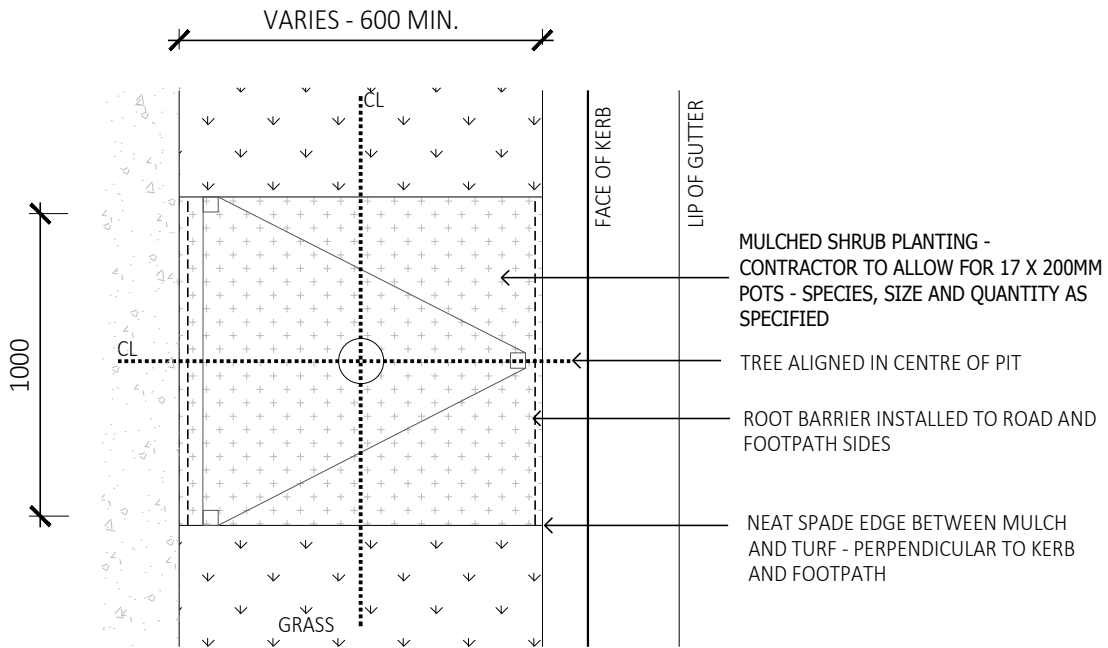
Typical Layout - Tree Surround
(Image is representational only)

- Watering shall be carried out on a regular basis twice weekly for the first 2 weeks and then as required according to weather conditions, rainfall and soil type.

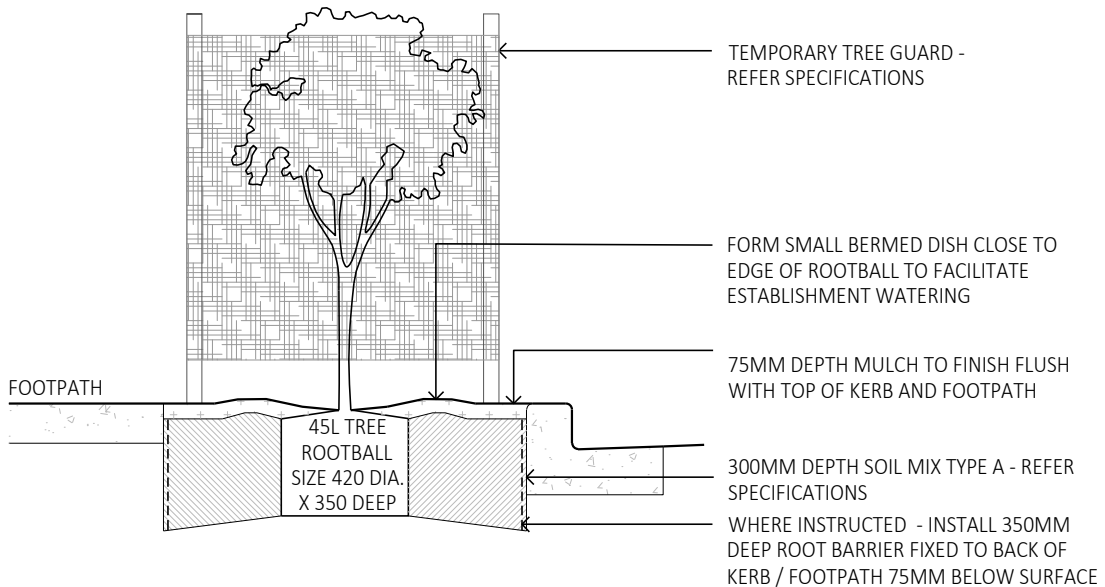
Maintenance

- Recurrent works – Throughout the planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of mulch, top dressing and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, weeding, watering, pruning, replenishment and restoration of mulch.

Planting New Street Tree - Nature Strip



D01 NEW STREET TREE IN MULCH - PLAN
Scale 1:25



D02 NEW STREET TREE IN MULCH - DETAIL
Scale 1:25

NOTE:

1. TREE PIT SURROUND TO BE SIZED TO ALLOW 300MM X 300MM UNIT PAVING TRIM WITHOUT CUTTING PAVERS
2. STRUCTURAL ROOT CELLS TO BE USED IN CONJUNCTION WITH THESE TREE PITS WHEREVER POSSIBLE

I.06

New Street Tree - Garden Bed

Function

- The new street tree in planting details are to be used for planting in all Local and Strategic Centres, parks and open spaces (when applicable) where specified, to contribute to the quality and character of the streetscape.
- 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 and submitted to Council based on these technical details for consideration prior to any installation.
- For WSUD option refer to bioretention raingarden or open bioretention tree pit.

Supplier

- Contractor or Council to nominate based on below specifications.

Materials and Dimensions

- Tree species and container size as specified;
- Shrub planting around tree as specified;
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be maintained until planted and clearly labelled.

Installation

- Excavate a hole twice the diameter of the root ball. Break up the base of the hole to a depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth. Root ball should be placed on level and compacted subgrade.
- Thoroughly water plants before and after planting, and as required to maintain growth rates.
- Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
- Mulch shall be spread evenly to a depth of 75mm.
- Mulch shall be kept 50mm from stems to avoid collar rot.



Typical Layout - Tree Surround

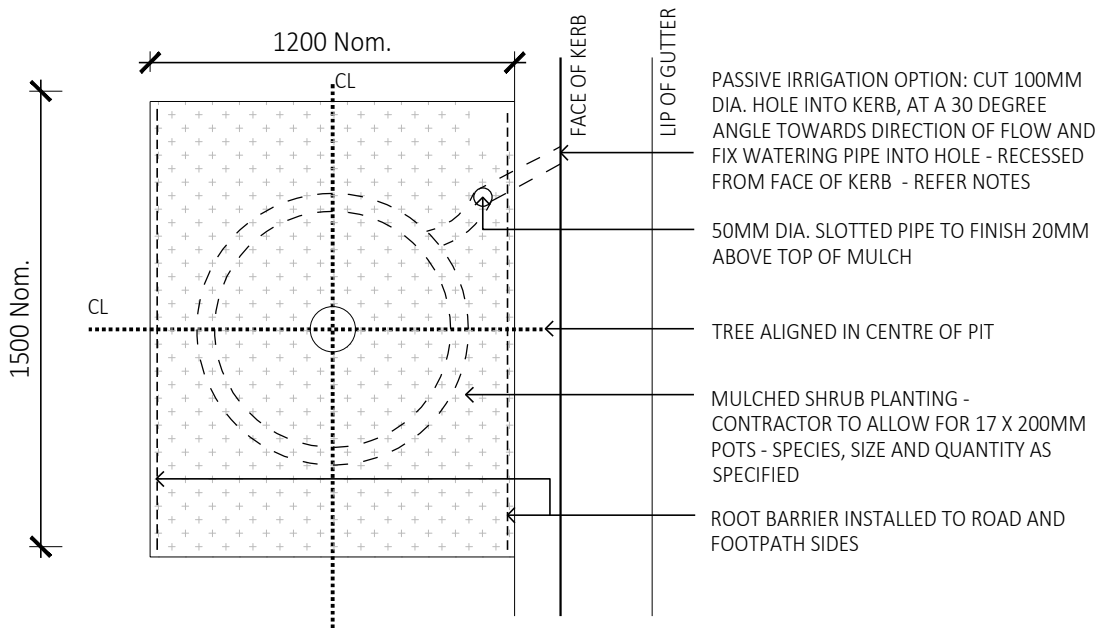
- Watering shall be carried out on a regular basis twice weekly for the first 2 weeks and then as required according to weather conditions, rainfall and soil type.

Maintenance

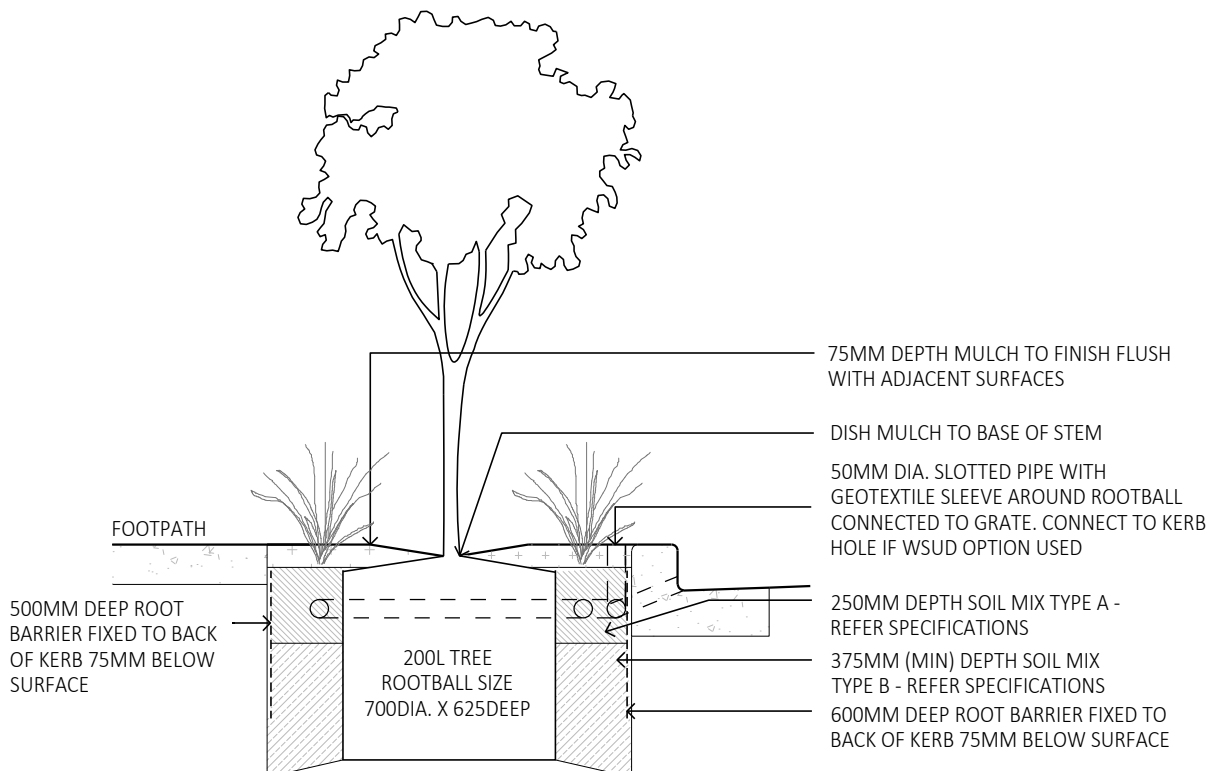
- Recurrent works – Throughout the planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of mulch, top dressing and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, weeding, watering, pruning, replenishment and restoration of mulch.

Refer towards the end of this section for stormwater quality improvement principles and bioretention tree pit or raingarden detail applications.

Planting New Street Tree - Garden Bed



D01 NEW STREET TREE IN PLANTING - PLAN
Scale 1:25



D02 NEW STREET TREE IN PLANTING - DETAIL
Scale 1:25

NOTE:

1. TREE PIT SURROUND TO BE SIZED TO ALLOW 300MM X 300MM UNIT PAVING TRIM WITHOUT CUTTING PAVERS
2. STRUCTURAL ROOT CELLS TO BE USED IN CONJUNCTION WITH THESE TREE PITS WHEREVER POSSIBLE

I.07

New Street Tree - Parking Lane

Function

- The passive irrigation detail for the new tree in parking forms part of the water sensitive urban design (WSUD) infrastructure of the Council.
- The detail is applicable for Bondi Junction; other commercial areas and streets with roadside planting or potential for median strip planting
- 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 and submitted to Council based on these technical details for consideration prior to any installation.
- For stormwater quality improvement option refer to open bioretention tree pit.

Supplier

- Contractor or Council to nominate based on below specifications.

Materials and Dimensions

- Tree and shrub species and container sizes as specified;
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be maintained until planted and clearly labelled.

Installation

- Excavate a hole twice the diameter of the root ball. Break up the base of the hole to a depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth. Root ball should be placed on level and compacted subgrade.
- Thoroughly water plants before and after planting, and as required to maintain growth rates.
- Tree in parking lane to be installed adjacent to existing gully pit or in locations where a new gully pit can be easily constructed over existing Council stormwater lines.
- WSUD option to be investigated on a case by case basis and should not be installed without direct approval from Council. Watering pipe not required in



Typical Layout - Tree Surround

WSUD option.

- Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
- Mulch shall be spread evenly to a depth of 75mm.
- Mulch shall be kept 50mm from stems to avoid collar rot.
- Watering shall be carried out on a regular basis twice weekly for the first 2 weeks and then as required according to weather conditions, rainfall and soil type.

Maintenance

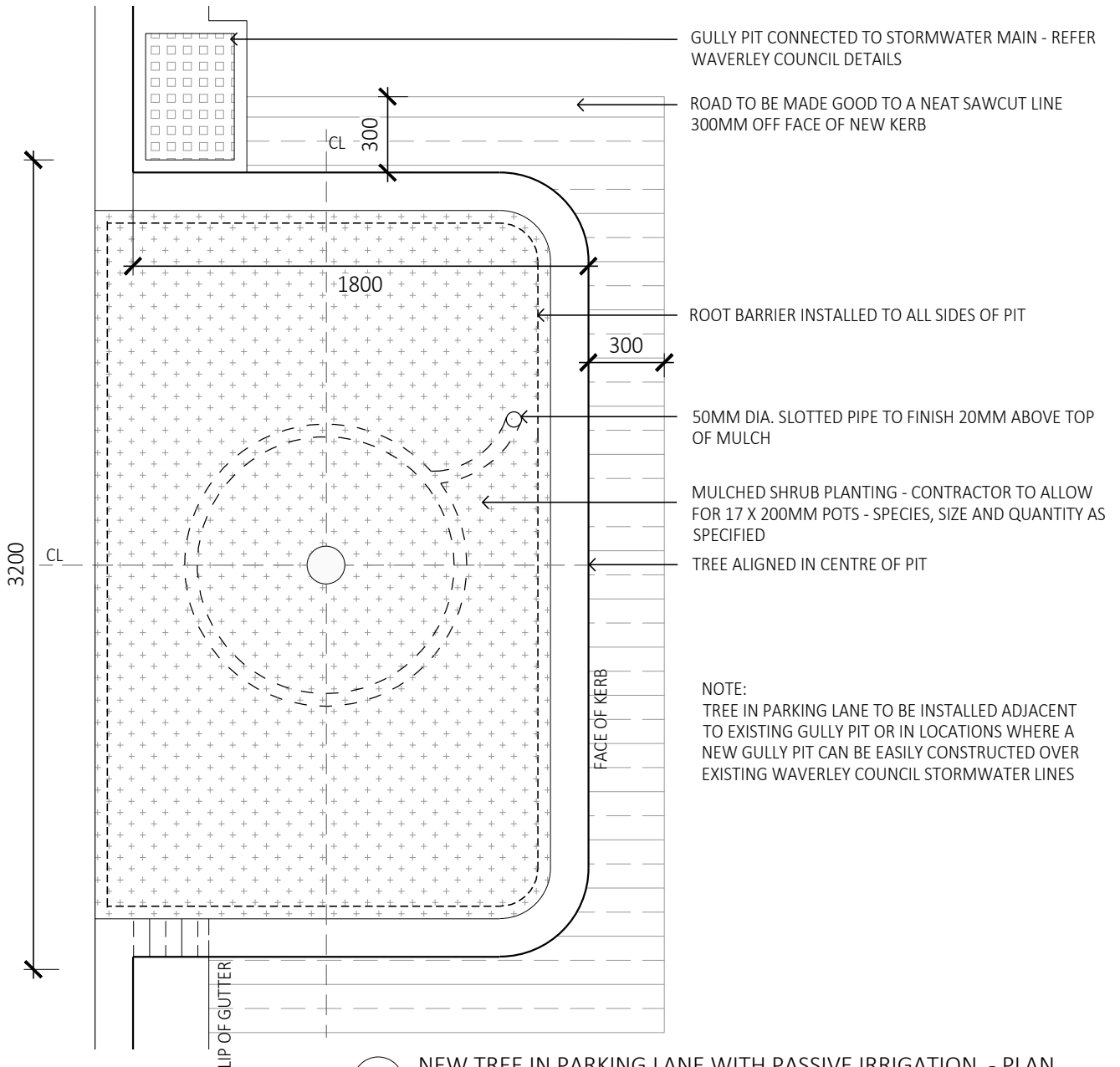
- Recurrent works for planting – Throughout the planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of mulch, top dressing and keeping the site neat and tidy.

On-going maintenance may include:

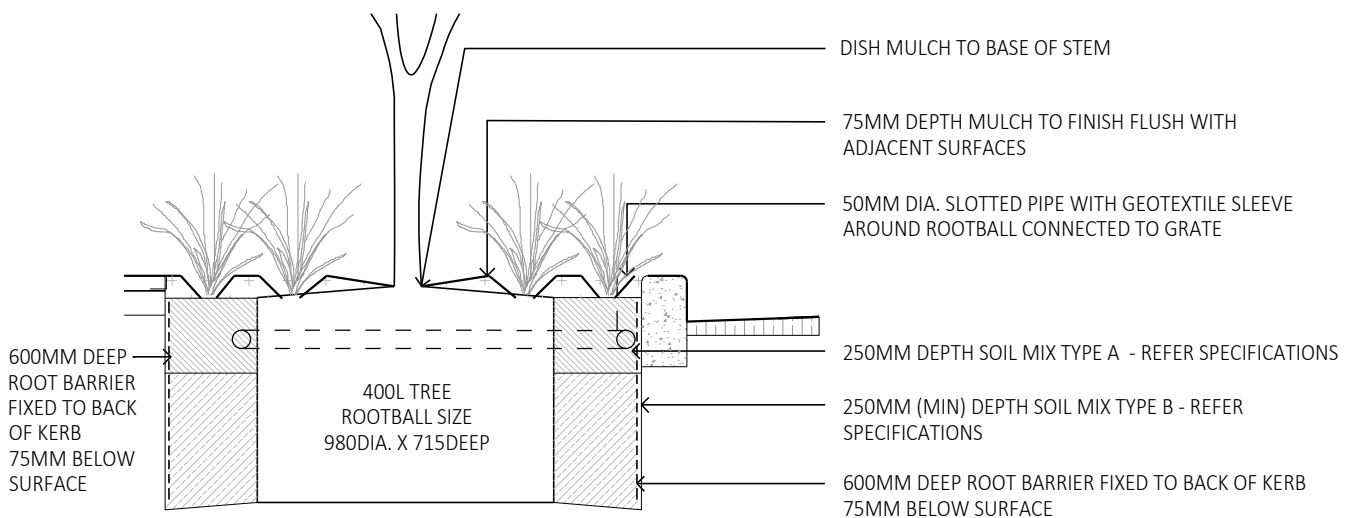
- Replacement of any damaged or inferior plants, weeding, watering, pruning, replenishment and restoration of mulch.
- Tree pit - Manual removal of sediments from inlet pipe and filter - every 3-6 months
- If the filter sock has been removed from the irrigation pipe, flushing out the irrigation pipe - every 5-7 years

Refer towards the end of this section for stormwater quality improvement principles and bioretention tree pit detail applications.

Planting New Street Tree - Parking Lane



D01 NEW TREE IN PARKING LANE WITH PASSIVE IRRIGATION - PLAN
Scale 1:25



D02 NEW TREE IN PARKING LANE WITH PASSIVE IRRIGATION - DETAIL
Scale 1:25

I.08

New Tree - Structural Root Cells

Function

- The detail is applicable for Bondi Junction; other commercial areas and streets with roadside planting.
- 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 and submitted to Council based on these technical details for consideration prior to any installation.
- For WSUD option refer to grated or open bioretention tree pits.

Supplier

Contractor to nominate based on below specifications.

Materials and Dimensions

- Tree species and container size as specified;
- All planting and soils shall be in accordance with AS 2303:2015 - Tree Stock for Landscape Use, AS 4419—2003 - Soils for Landscaping and Garden Use, AS 4454-2003 Compost Soil Conditioners and Mulches, and AS 4373-2007 Pruning of Amenity Trees;
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound;
- Plants shall be free of weeds, insect pests, disease or physical injury;
- Plants delivered to site must be delivered or transported in a covered (pantech) vehicle, prior to installation, to avoid wind burn.
- Delivered plants should be clearly labeled and maintained until planted.
- Structural root cells to be installed as per details and to manufacturer's recommendations.

Installation

- Excavate a hole twice the diameter of the root ball. Break up the base of the hole to a depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth. Root ball should be placed on level and compacted subgrade.
- Thoroughly water plants before and after planting, and as required to maintain growth rates.
- Structural root cells to be installed 2 high and 2 wide as shown. length may vary due to site conditions or the presence of services. Council to determine number of cells following excavation of pit.
- Contractor to provide geotechnical certification of permeable paving option prior to commencement.
- If permeable paving is not used - contractor to allow for additional watering grates to be installed.
- Do not plant in unsuitable weather conditions such as



Typical Layout - Tree Surround

extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.

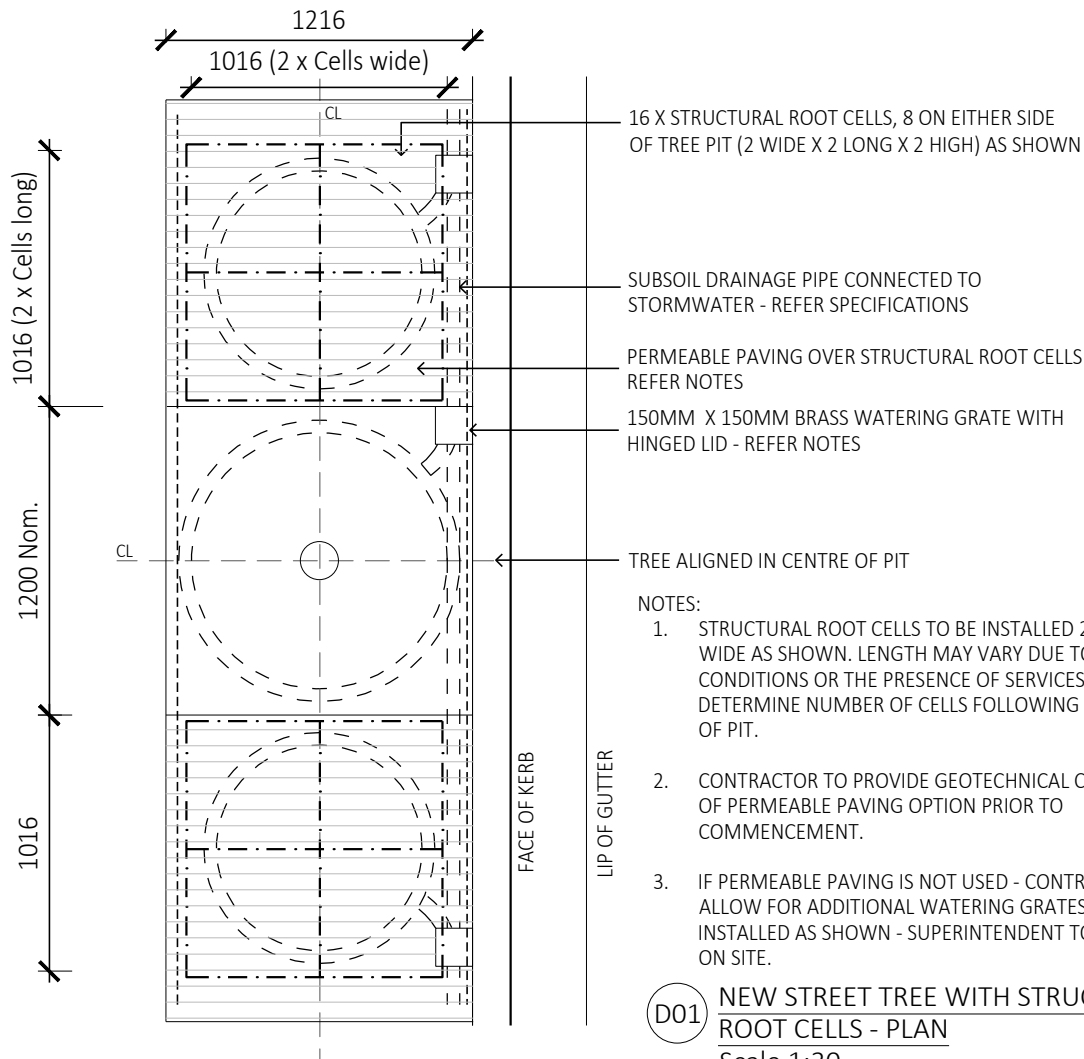
- Watering shall be carried out on a regular basis twice weekly for the first 2 weeks and then as required according to weather conditions, rainfall and soil type.

Maintenance

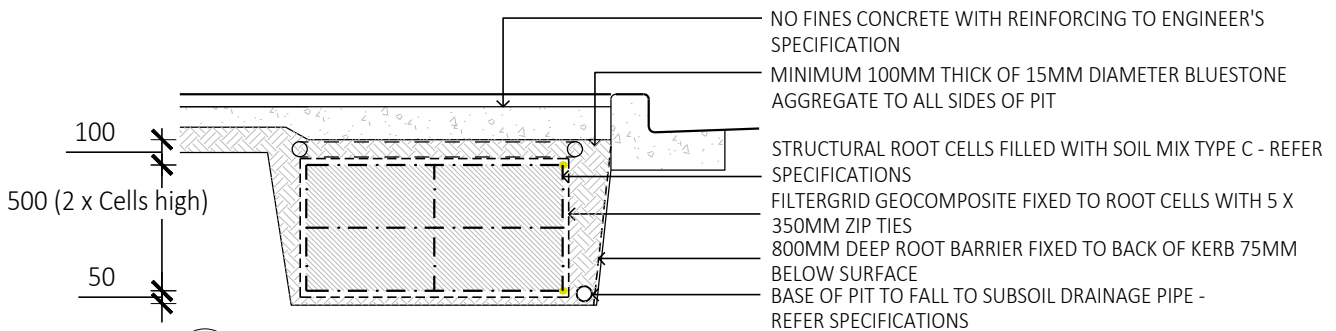
- Recurrent works – During planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, weeding, watering and pruning.

Refer towards the end of this section for stormwater quality improvement principles and bioretention tree pit detail applications.

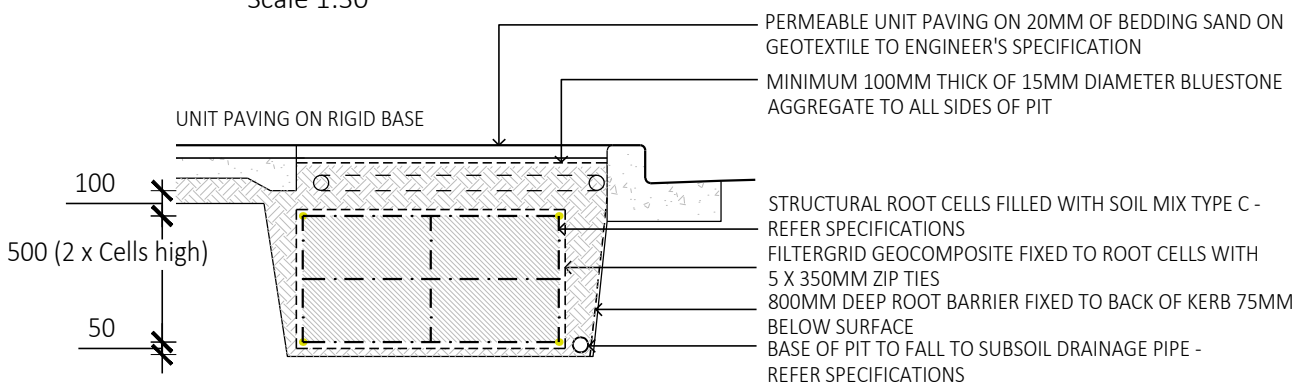
Planting New Tree - Structural Root Cells



D01 NEW STREET TREE WITH STRUCTURAL ROOT CELLS - PLAN
Scale 1:30



D02 NEW STREET TREE WITH STRUCTURAL ROOT CELLS - DETAIL
Scale 1:30



D03 OPTION - WITH PERMEABLE PAVING - DETAIL
Scale 1:30

I.09

Turf

Function

To provide areas of lawn in parks, reserves and street verges.

Supplier

- Contractor to nominate based on below specifications.

Materials and Dimensions

- Contractor to supply and install turf as specified.
- All planting and soils shall be in accordance with AS 4419—2003 - Soils for Landscaping and Garden Use and AS 4454-2003 Compost Soil Conditioners and Mulches.
- Contractor to obtain turf rolls from a specialist grower of cultivated turf.
- Use turf roll of even thickness, free from weeds and other foreign matter.
- Supplied turf is to demonstrate vigorous growth, be free from obvious signs of stress, weed, pest or disease infestation, damage or physical defects.

Installation

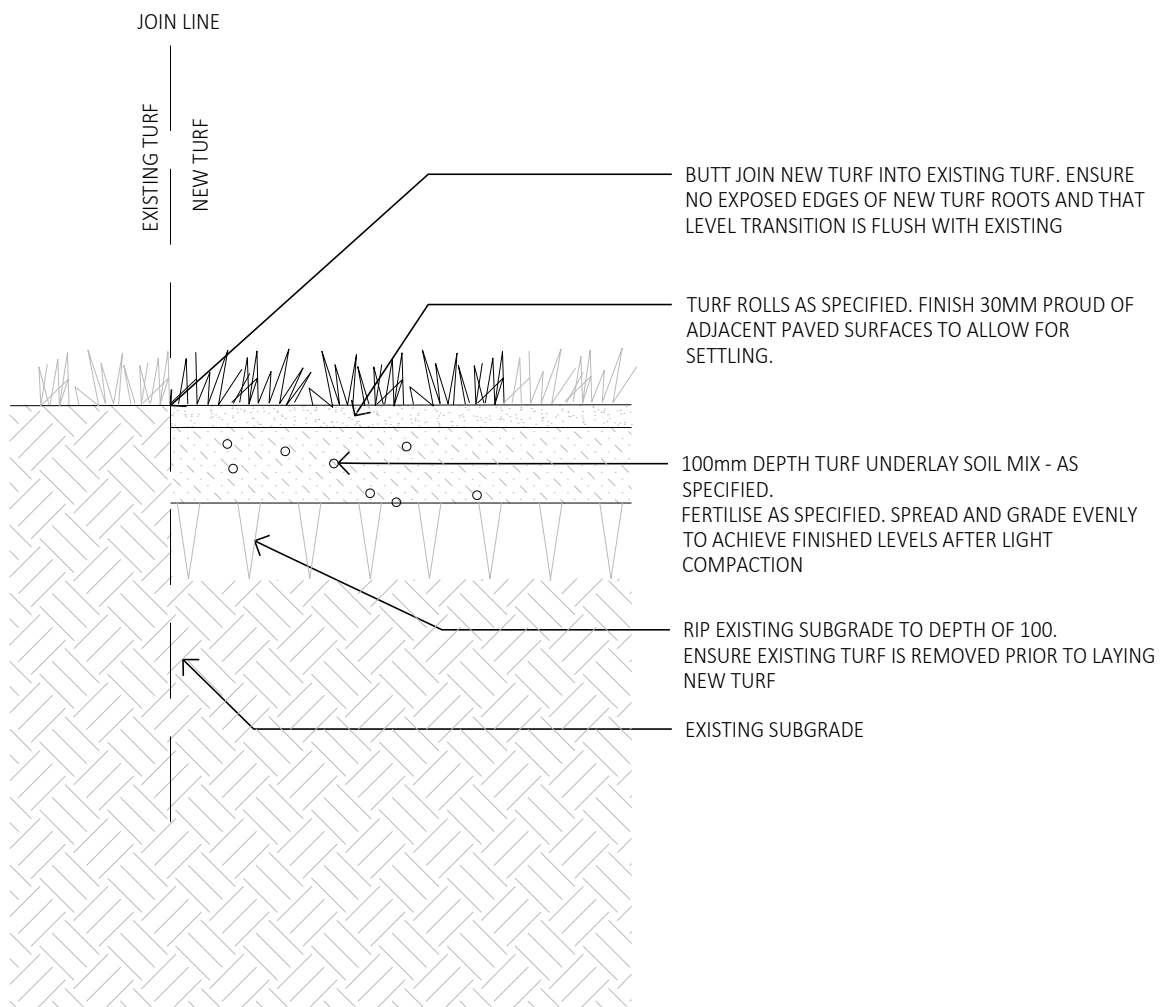
- Deliver the turf sods from the supplier within 24 hours of cutting, and lay it within 36 hours of cutting.
- Prevent it from drying out between cutting and laying. If it is not laid within 36 hours roll it out on a flat surface with the grass up, and water as necessary to maintain a good condition.
- Lightly tamp to an even surface immediately after laying, avoiding air pockets. Do not use a roller.
- Water immediately after laying. Moisten the topsoil to its full depth. Continue watering as necessary to maintain moisture to this depth.
- Apply slow release fertiliser as required and specified
- Allow for topdressing of the turf following installation, to establish surface smoothness and turf density following establishment.



Turf

Maintenance

- Lift failed turf and relay with new turf to give a good even layer whilst still revealing the grass shoots.
- Lawn areas shall be mown at a height consistent with the growth habit of the grass variety. A regular height range of 40mm to 60mm shall be maintained.
- Recurrent works – Throughout the planting establishment period, carry out maintenance work including watering, mowing, weeding, rubbish removal, fertilising, pest and disease control, reseeded, returfing, top dressing and keeping the site neat and tidy.



D01 TURF PLANTING- KEY-IN DETAIL
Scale 1:10

I.10

Mass Planting

Function

Provide planting to garden beds in parks, reserves and suburban streets

Supplier

- Contractor or Council to nominate based on below specifications.

Materials and Dimensions

- Contractor to supply and install plants as specified.
- All planting and soils shall be in accordance with AS 4419—2003 - Soils for Landscaping and Garden Use and AS 4454-2003 Compost Soil Conditioners and Mulches.
- Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound.

Installation

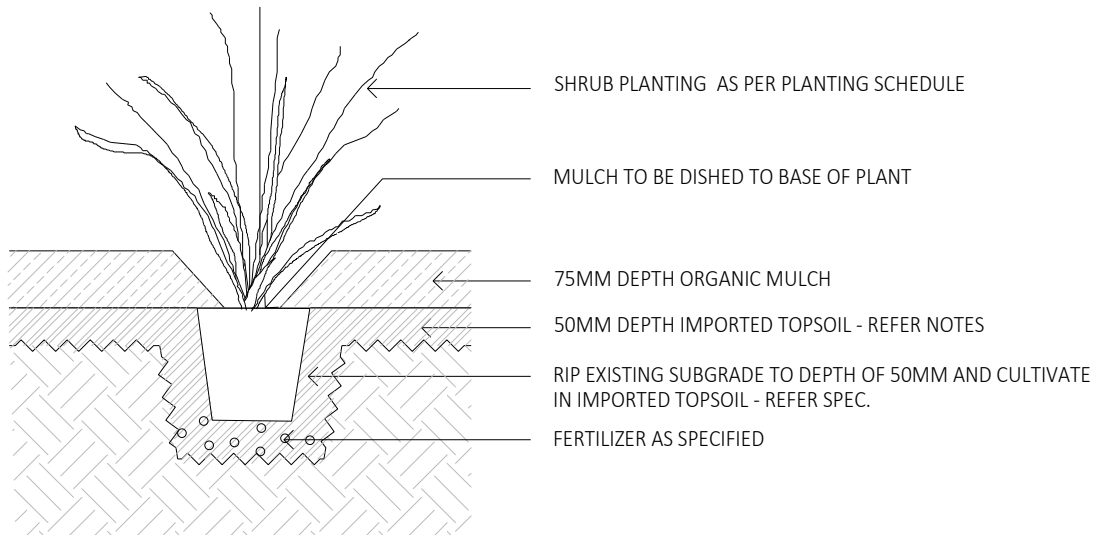
- Subsoil to be ripped and cultivated to a minimum depth of 200mm with 300mm garden soil mix to be spread over the prepared subsoil base
- Topsoil to be spread on the prepared subsoil and grade evenly, compacted lightly and uniformly in 150mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:
 - Finished to design levels, allowing for mulch or turf, which is to finish flush with adjoining hard surfaces such as paths and edge
 - Smooth and free from stones or lumps of soil
 - Graded to drain freely, without ponding, to catchment points
 - Graded evenly to adjoining surfaces, and
 - Ready for planting
- Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
- Thoroughly water the plants before planting, immediately after planting, and as required to maintain growth rates free of stress.
- Fertilise and backfill. Use fertilizer as specified.
- Mulch as specified



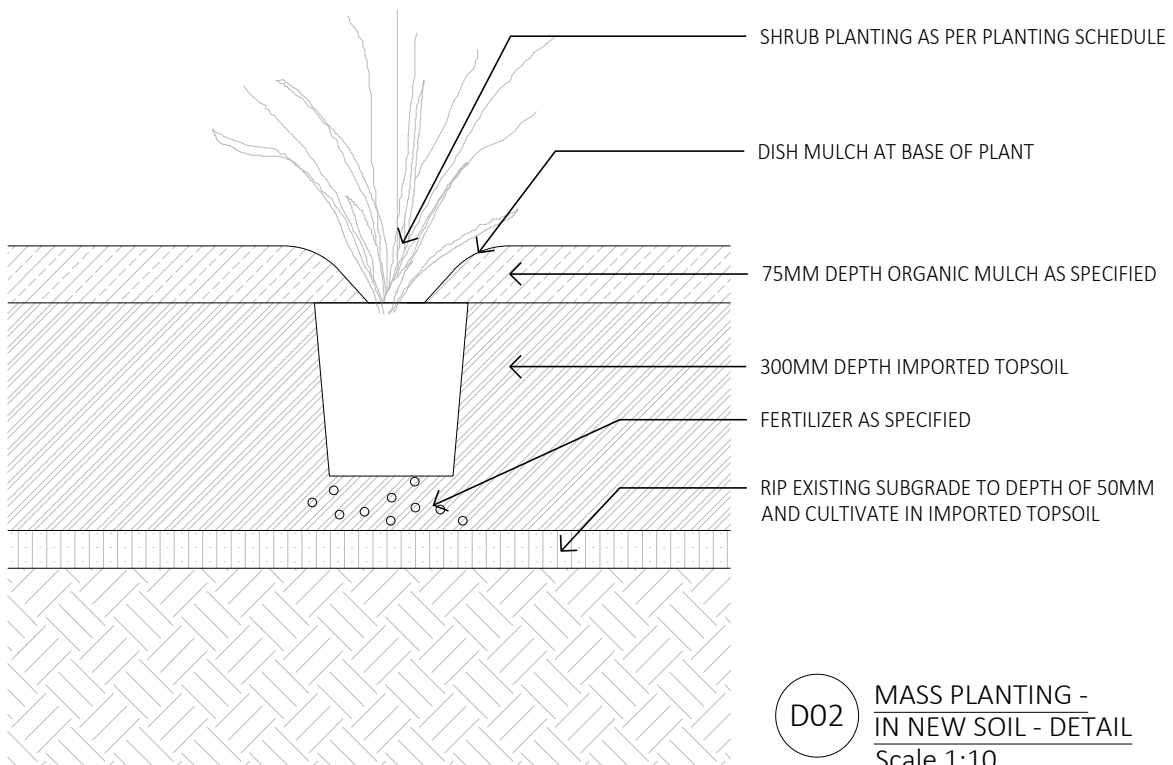
Mass Planting

Maintenance

- Throughout the planting establishment period, carry out maintenance work including watering, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting, cultivating, pruning, hedge clipping, aerating, reinstatement of mulch, top dressing and keeping the site neat and tidy.
- On-going maintenance may include: Replacement of any damaged or inferior plants, weeding, watering, pruning, replenishment and restoration of mulch.



D01 MASS PLANTING -
IN EXISTING SOIL -DETAIL
Scale 1:10



D02 MASS PLANTING -
IN NEW SOIL - DETAIL
Scale 1:10

Stormwater Quality Improvements

Stormwater quality improvement details form part of the water sensitive urban design (WSUD) infrastructure of Council.

Bioretention

Bioretention systems filter stormwater vertically through a vegetated filter media. Treated stormwater is then collected by a perforated underdrain and directed to the downstream stormwater drainage system.

The primary objective of a bioretention tree pit or raingarden treatment area is to filter pollutants to improve stormwater quality. Other potential benefits include:

- Stormwater flow management i.e. reduction of runoff frequency and volumes or flow rates
- Improved irrigation of vegetation, improved vegetation quality and reduced need for hand watering, especially through dry weather periods
- Reduced maintenance and increased lifespan of traditional stormwater drainage infrastructure
- Increased pervious surfaces resulting in less stormwater runoff, more comfortable micro-climate and reduced heat island effect
- Improved visual amenity
- Improved human health and wellbeing.

Application

Bioretention systems can be implemented in almost any size and shape, in many different locations including streetscapes, traffic calming devices, parks or as part of drainage works. It is important to have:

- Sufficient biofilter area of 1% to 2% of the impervious catchment area
- Sufficient depth (normally at least 800mm) between the inlet and outlet of a bioretention system. However, there are design solutions to overcome depth constraints such as the creation of a saturated zone.
- Pre-treatment to capture sediment to prevent clogging.



Streetside garden with established bioretention raingarden at Hollywood Avenue



Newly constructed bioretention raingarden at Gray Street North

Developers and designers are required to carry out feasibility assessment considerations as directed by and in consultation with the Council prior to application and implementation of these details. The design elements to be applied should be determined based on the essential components required and the functions these are expected to carry out after consultation with the Green Infrastructure Team of the Council.

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Bioretention Tree pit with Tree grate

Function

- Bioretention tree pits with tree grates are to be implemented in pedestrian plaza spaces as directed by the Council, based on their assessment of pollutants of concern, type of stormwater treatment required and available catchment area and on the location of the project under development.
- Technical details are to be developed further based on consultation with the Council and site specific designs shall be submitted to the Council, based on these technical details, for consideration prior to any installation.

Supplier

Contractor or Council to nominate based on below specifications.

Materials and Dimensions

- Tree species as specified in the planting schedule and as confirmed by Council. Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound. Plants shall be free of weeds, insect pests, disease or physical injury.
- Paving, kerbs as per PDTM depending on location of the bioretention open tree pit.
- All concrete works to structural engineers details
- Tree grates as specified by the Council. These grates could be special-order items.
- All required materials such as liners, structural root cells, tree pit and structural cell media, transition layer materials, drainage layer materials etc should be as specified and as approved by the Council.

Installation

- Setout and earthworks to be as documented and to be inspected by Council.
- Inspections to be carried out by the Council at every stage of installation as listed in the hold points, some of which can be at completion of of all new drainage conduits, pits and grates, liner, slotted and solid subsoil drains, the flushing points and caps, completed water-tight seals of any pipe penetration through liner, installation of the drainage media and the finished levels of the drainage layer, at installations of the first layer of structural root cells and soil, top layer of structural root cells, soil and the heavy mesh fabric, installation of the transition layer and the finished levels of the transition layer, filter media and the finished levels of the filter layer, installation of tree pit and grate, planting and installation of pavers.
- Defects period is 52 weeks.



Example Typical Layout - Bioretention Tree pit with Tree grate

Maintenance

- Throughout the planting establishment period, carry out maintenance work including watering if required, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, and keeping the site neat and tidy.

On-going maintenance may include:

- Replacement of damaged or inferior tree, weeding, pruning and replenishment and restoration of filter media if required.
- Manual removal of sediment from sediment forebay or scour pad every 3-6 months
- Manual scraping/tiling of clogged layer of filtration media. Clogged layer to be appropriately disposed off approximately every 5-7 years testing dependent.

Planting **Bioretention Tree pit with Tree grate**

Bioretention Tree pit - Open

Function

- Bioretention open tree pits are to be implemented in locations such as streetscapes, traffic calming devices, parks or as part of drainage works as specified by the Council, based on an assessment of pollutants of concern, type of stormwater treatment required and available catchment area and on the location of the project under development.
- Technical details are to be developed further based on consultation with the Council and site specific designs shall be submitted to the Council, based on these technical details, for consideration prior to any installation.

Supplier

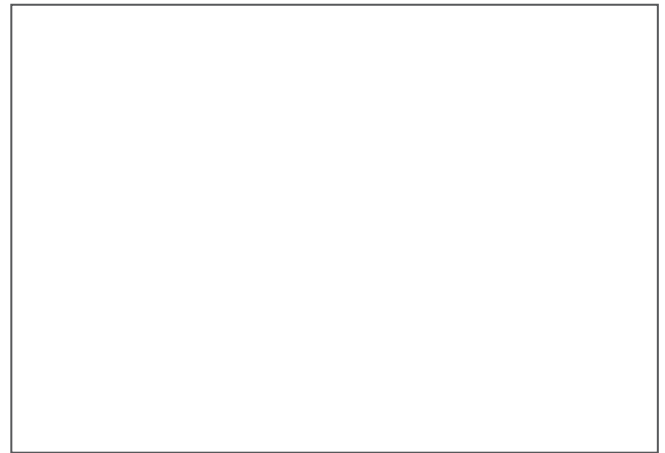
Contractor or Council, as specified, to organise.

Materials and Dimensions

- Tree species and grasses & groundcovers as specified in the planting schedule and as confirmed by Council. Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound. Plants shall be free of weeds, insect pests, disease or physical injury.
- Paving, kerbs as per PDTM depending on location of the bioretention open tree pit.
- All concrete works to structural engineers details
- All required materials such as liners, structural root cells, bioretention and structural cell media, transition layer materials, drainage layer materials etc should be as specified and as approved by the Council.

Installation

- Setout and earthworks to be as documented and to be inspected by Council.
- Inspections to be carried out by the Council at every stage of installation as listed in the hold points, some of which can be at completion of all new drainage conduits, pits and grates, liner, slotted and solid subsoil drains, the flushing points, completed water-tight seals of any pipe penetration through liner, installation of the drainage media and the finished levels of the drainage layer, at installations of the first layer of structural root cells and soil, top layer of structural root cells, soil and the heavy mesh fabric, installation of the transition layer and the finished levels of the transition layer, filter media and the finished levels of the filter layer, gravel mulch & planting and installation of pavers.
- Defects period is 52 weeks.



Typical Layout - Tree Surround - Image to be provided when available

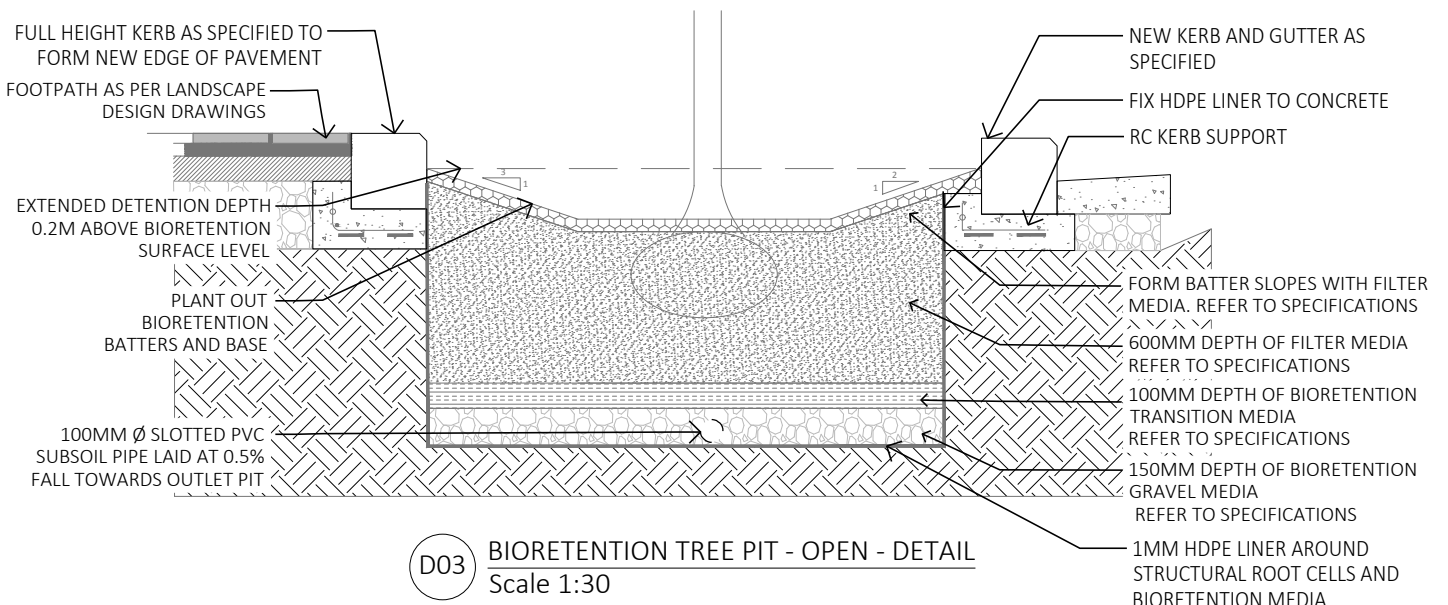
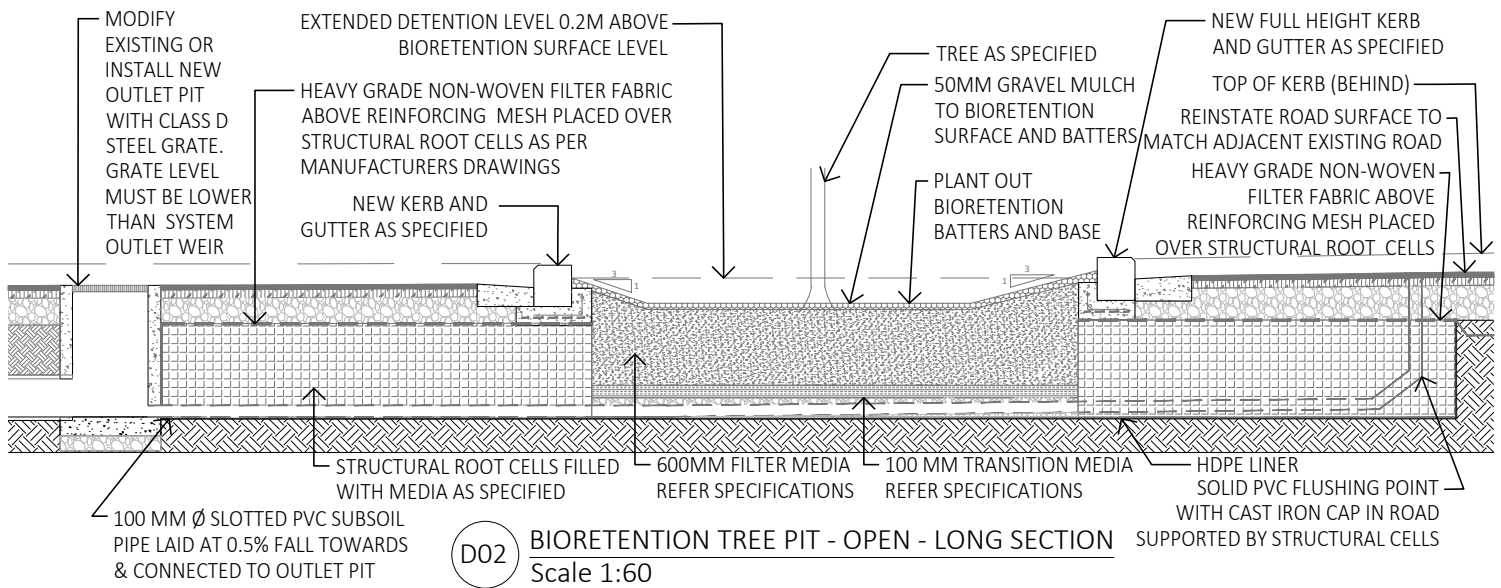
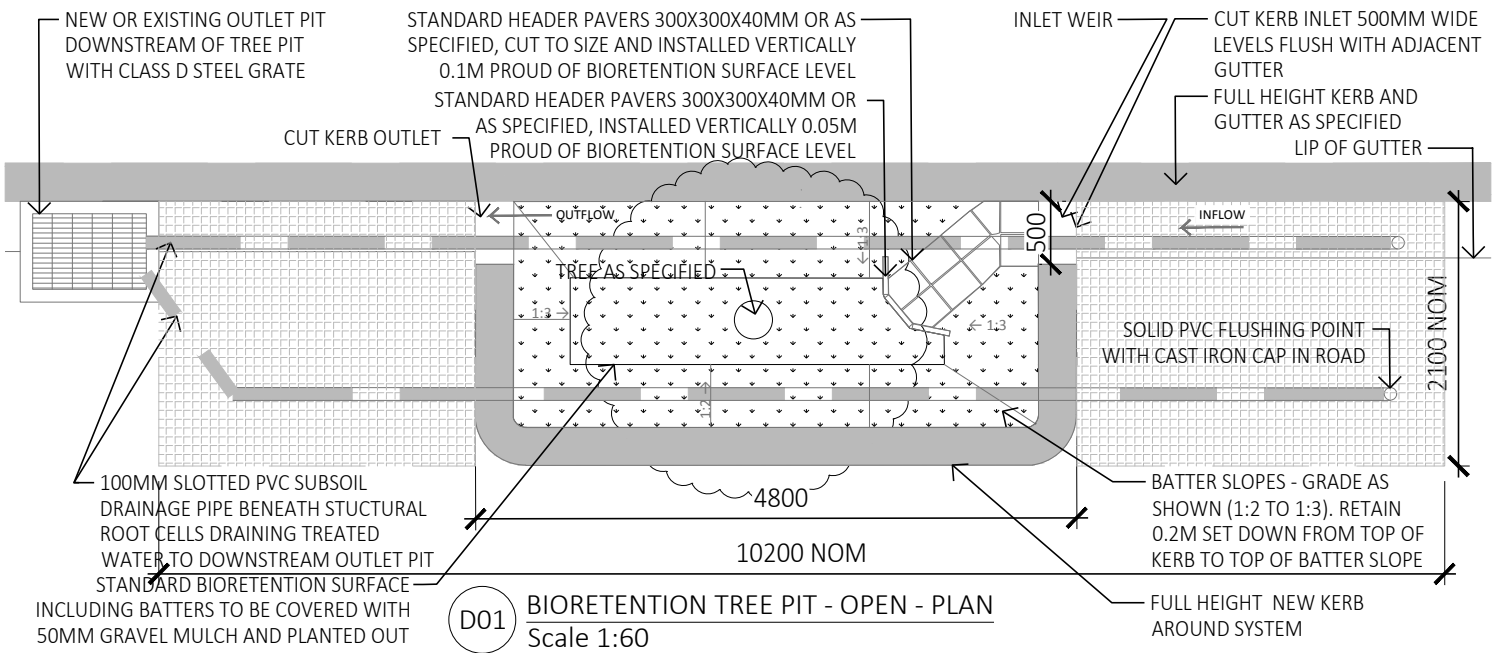
Maintenance

- Throughout the planting establishment period, carry out maintenance work including watering if required, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of gravel mulch, top dressing and keeping the site neat and tidy.

On-going maintenance may include:

- Replacement of any damaged or inferior plants, weeding, pruning, replenishment and restoration of gravel mulch.
- Manual removal of sediment from sediment forebay or scour pad every 3-6 months
- Manual scraping/tilling of clogged layer of filtration media. Clogged layer to be appropriately disposed off approximately every 5-7 years testing dependent.

Planting Bioretention Tree pit - Open



I.14

Bioretention Raingarden

Function

- Bioretention raingardens are to be implemented in locations such as streetscapes, traffic calming devices, parks or as part of drainage works as specified by the Council, based on their assessment of pollutants of concern and type of stormwater treatment required, for the area under development.
- Technical details are to be developed further based on consultation with the Council and site specific designs shall be submitted to the Council, based on these technical details, for consideration prior to any installation.

Supplier

Contractor or Council, as specified, to organise.

Materials and Dimensions

- Grasses, groundcovers and shrub species as specified in the planting schedule and as confirmed by Council. Plants shall be well-formed, healthy, hardened off stock where possible with a sturdy root system and not root bound. Plants shall be free of weeds, insect pests, disease or physical injury.
- Paving as per PDTM depending on location of raingarden
- All concrete works to structural engineers details
- All required materials such as liners, bioretention media, transition layer materials, drainage layer materials etc should be as specified and as approved by the Council during consultation.

Installation

- Setout and earthworks to be as documented and to be inspected by Council.
- Inspections to be carried out by the Council at every stage of installation as listed in the hold points, some of which can be at completion of all new drainage conduits, pits and grates, liner, slotted and solid subsoil drains, the flushing points and caps, completed water-tight seals of any pipe penetration through liner, installation of the drainage media and the finished levels of the drainage layer, at installations of the transition layer and the finished levels of the transition layer, filter media and the finished surface levels of the system, gravel mulch and planting.
- Defects period is 52 weeks.



Bioretention Raingarden at Gray Street North

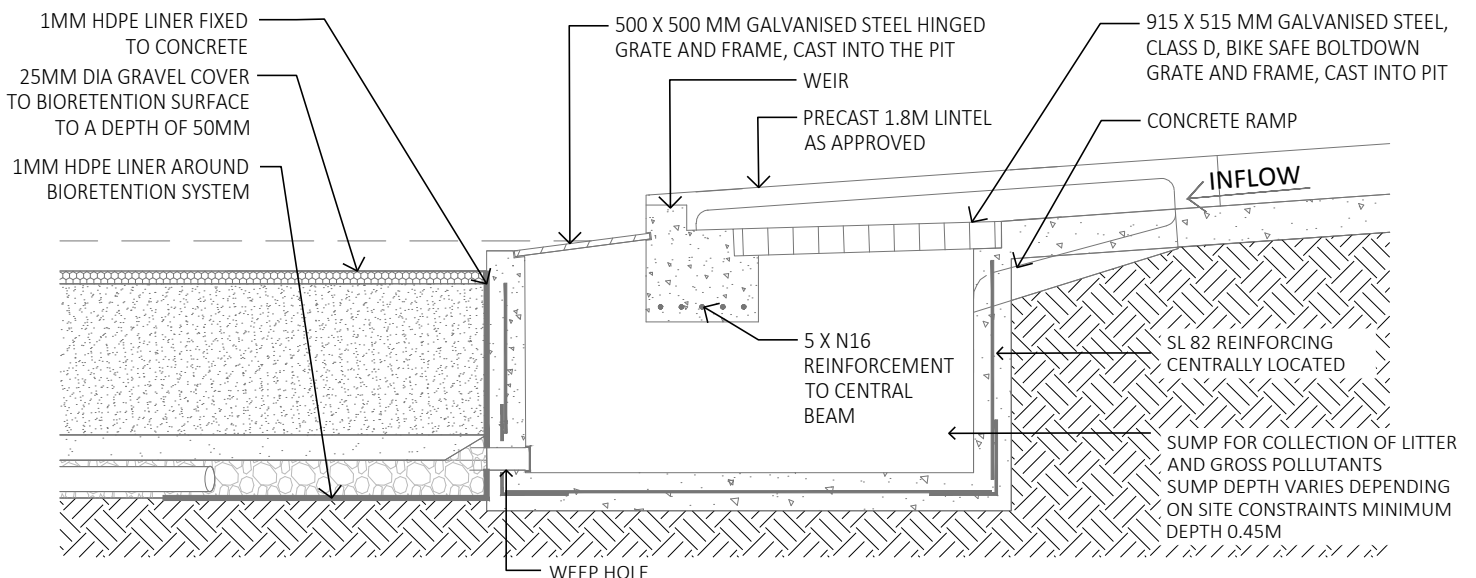
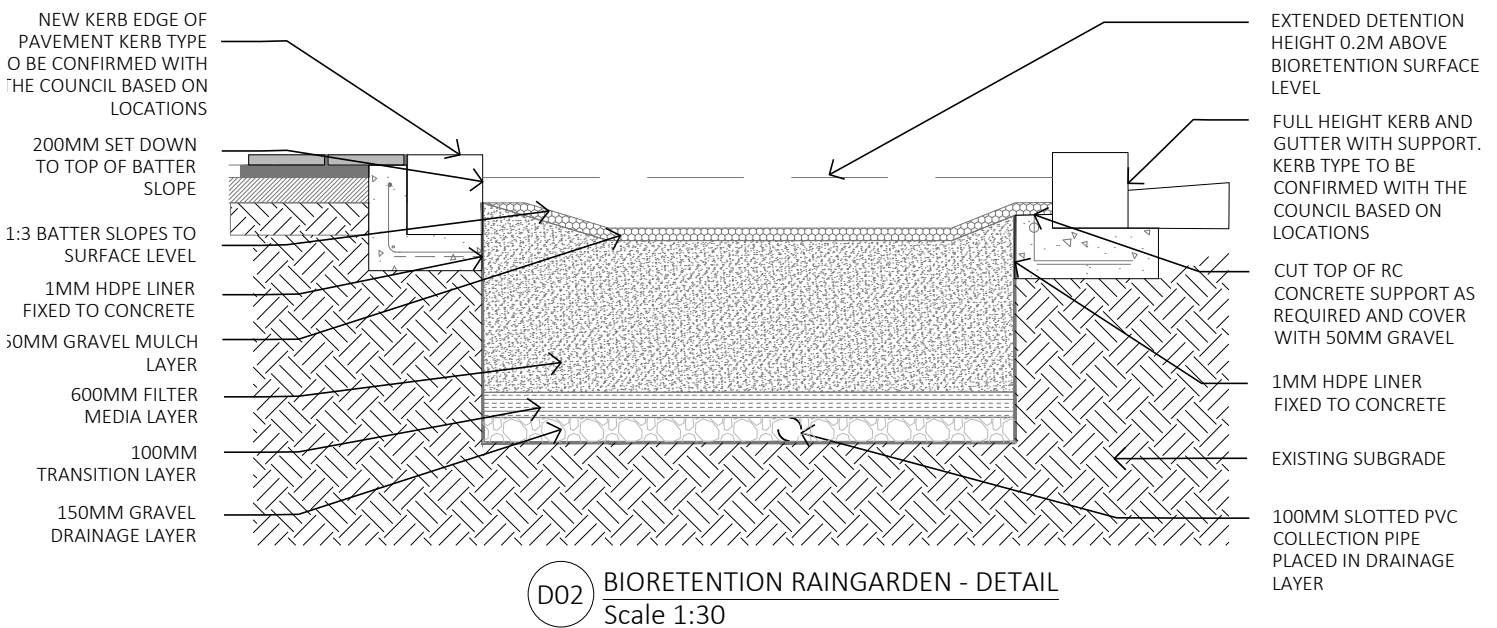
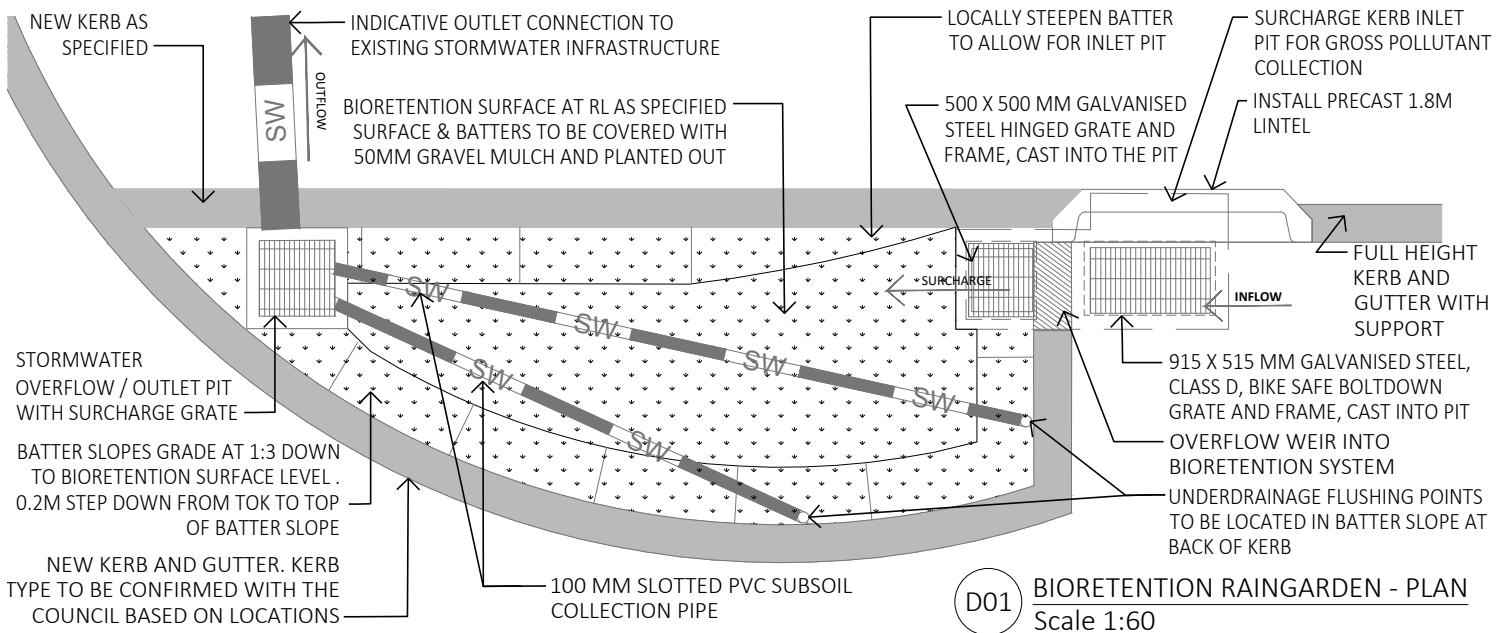
Maintenance

- Throughout the planting establishment period, carry out maintenance work including watering if required, weeding, rubbish removal, fertilising, pest and disease control, staking and tying, replanting if required, cultivating, aerating, reinstatement of gravel mulch, top dressing and keeping the site neat and tidy.

On-going maintenance may include:

- Replacement of any damaged or inferior plants, weeding, pruning, replenishment and restoration of gravel mulch.
- Manual removal of sediment from sediment forebay or scour pad every 3-6 months
- Manual scraping/tilling of clogged layer of filtration media. Clogged layer to be appropriately disposed off approximately every 5-7 years testing dependent.

Planting Bioretention Raingarden



I.15

Waverley Council Plants Species List

The following planting palette is to be used within Waverley Council's Parks and Streetscape. For street tree species selection refer to the Street Tree Masterplan.

Various attributes and applications of each plant have been given in the palette which will enable the users to choose a species suitable for their purpose.

The palette presents a useful tool for ensuring good habitat is planted within the Council limits.

Planting Waverley Council Plants Species List

Trees in Parks

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Life Expectancy | Accent Plants | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | Playgrounds | Notes on Form / Maintenance / Performance | Application | | | | | |
|---|------------------------|------------------------------|-------------------------|---|--------------|----------------------|---------------|---------------|-------|---|-------------|---|---|---------------|-------|---|-------------|--|
| | | | | | | | | | | | | | Accent Plants | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | Playgrounds | |
| Small (to 6 metres) | | | | | | | | | | | | | | | | | | |
| <i>Angophora hispida</i> | Dwarf Apple | Native | Second Line Coastal | Multi-trunked large shrub-sized | 6m | 80-100 | No | Yes | Yes | Yes | No | Yes | Large clusters of creamy white flowers in Summer - January. Nectar source for many birds & invertebrates. Very Hardy. Responds well after wildfires. Can be trained as a single trunked street tree. Occurs naturally on ridgetops, most commonly in heath and open woodlands | | | | | |
| <i>Acacia longifolia</i> | Sydney Golden Wattle | Native | No | Round, large shrub sized | 6m | 10-20 yrs | No | Yes | Yes | Yes | No | Yes | Bright Yellow rod shaped flowers in abundance from early winter through early spring. Highly attractive small tree; striking flower display, tolerates a range of soils. Borer an issue in late life. Good as windbreaks and for erosion control. Nitrogen fixer. | | | | | |
| <i>Callistemon citrinus</i> also known as <i>Melaleuca citrina</i> (<i>Callistemon lanceolatus</i> is an older name) | Crimson Bottle-brush | Native | Front Line/ Second Line | Round, large shrub sized | 3-4m | <50 | Possibly | No | Yes | Yes | Yes | Yes | Showy, crimson-red, bottlebrush form twice a year - Spring and Autumn (if well watered). Can attract Noisy Miners. Choose planting sites carefully. Especially if trying to provide small bird habitat. Many bird species use the tree as a food source. Can also be planted in very wet soils. | | | | | |
| <i>Callistemon citrinus</i> 'Kings Park Special' | Kings Park Special | Cultivar | No | upright-rounded large shrub sized, pendulous branches | 4x 3m | <50 | Yes | No | Yes | No | No | Yes | Bright red, multiple heads on branch terminals from Mid-September to October. Possible small flowering in autumn. Fast growing. Responds well to pruning after flowering. Can be planted in a wide variety of soils. Can suffer frost damage. Good for small landscapes where space is limited. | | | | | |
| <i>Corymbia eximia</i> 'nano' | Dwarf Yellow Bloodwood | Native | Front Line/ Second Line | Compact Rounded | 6-8m x 4m | Long, beyond 100 yrs | Yes | Yes | Yes | Yes | Yes | Yes | Creamy white to golden yellow in winter spring - August to October. Slightly open canopy, big yellow flowers, patchy, grey and brown bark, frequently on a crooked trunk. Does well on poor gravelly or sandy soils. Remains healthy in drought. Suffers frost damage. Extremely suitable for height restricted areas. Attracts nectar loving birds. Honey producing plant. Excellent as a street tree. Makes a good feature tree, shade tree or as part of wind break, native shelter. | | | | | |
| <i>Cupaniopsis anacardioides</i> | Tuckeroo | Native | Front Line Coastal | Rounded | 6m x 6m | 40-70 | No | No | Yes | No | No | Yes | Small white flowers in autumn. Dome - formed into umbrella with annual pruning. Incredibly hardy species. Tolerant of drought and vandalism. Very high survival rates on establishment. Downside is fruit load which can be a hazard on sealed surfaces. Fruit is favourite of many fruit eating birds. | | | | | |
| <i>Eucalyptus luehmannaiana</i> | Yellow-top Mallee Ash | Native | Second Line | Multi-trunked large shrub-sized | 6m x 4m | possibly >40 | No | No | Yes | No | No | Yes | Creamy white flowers from mid winter to late spring. Grows in high rainfall areas as well. Rare eucalyptus. Can be grown as a single trunk small tree. Grows well in poorly drained, skeletal, sandy soils. | | | | | |
| <i>Melaleuca armillaris</i> | Bracelet Honey Myrtle | Native | Front Line-Second Line | Rounded | 5m x 5m | >60 | Possibly | Yes | Yes | Yes | Yes | Yes | Cylindrical bottlebrush-style, red or pink buds, open to white or pink flowers in spring and summer. Fast growing species with a good canopy initially which suffers from thinning out with age. Susceptible to bracket fungi in later years w/ associated branch drop. Myrtle rust host. Bird Habitat | | | | | |

Waverley Council Plants Species List Planting

| | | | | | | | | | | | | |
|--|--------------------------|--------|-----------------------------|--|-----------------|-------------------------|-----|-----|-----|----|---------------------------|--|
| <i>Monotoca elliptica</i> | Tree Broom- heath | Native | Front Line Coastal | Bushy shrub- like | 4-10m tall | Long, beyond 100 yrs | No | Yes | Yes | No | No | Small cream coloured flowers from July to September. Grows in scrub or sclerophyll forest, most often on coastal dunes. Fruits eaten by Noisy Miners. Foodplant of a variety of butterflies. |
| <i>Pandanus leucanthus</i> also known as <i>Pandanus odorifer</i> | Screw Pine | Native | Front Line Coastal | Palm-like, small branched | 4m | Typically 50-80 | No | Yes | Yes | No | Yes | White fragrant flowers in summer. Used to make perfume elsewhere in the world. Prop roots emerge at times. Grow well in sandy, rocky soils as well as seasonally waterlogged soils. |
| <i>Pyrus calleryana</i> | Callery pear | Exotic | No | Conic rounded crown | 5-8m | 15-20 years | Yes | No | Yes | No | No | White five petaled flowers in early spring. Deciduous tree. Fruit small and woody, when softened by frost are eaten by birds. Summer foliage is dark green and very smooth. In autumn these turn brilliant colours of yellow, orange, red, pink purple and bronze. Wood used for instruments and veneers. The tree is known for its pungent, often unpleasant smell during its flowering stage, which has been described as reminiscent of rotting fish, chlorine, or semen. |
| <i>Tristanopsis laurina</i> | Water Gum | Native | Possible secondline coastal | Oval | 5m x 3-6m | Long, beyond 100 yrs | Yes | Yes | Yes | No | Yes | Bright yellow flowers in short clusters in spring and summer. Low maintenance. Fast growing. Drought resistant. Tolerates light frost. Likes full sun or light shade. Good as a feature plant, wind break, street tree. Used for erosion control, as a bird nesting plant and as a pollution tolerant. Attracts a wide range of birds, butterflies, insects and possums. |
| Medium (6 to 12 metres) | | | | | | | | | | | | |
| <i>Agathis robusta</i> | Queensland Kauri Pine | Native | No | Conical conifer | 25-30m | Very long | No | Yes | Yes | No | No | Timber is highly prized for furniture. |
| <i>Agonis flexuosa</i> | Willow Myrtle | Native | Front Line/ Second Line | Umbrella - pendular | 6m x 8m | Long (R) | Yes | No | Yes | No | Yes | Clusters of small white flowers between leaves in spring and summer. Myrtle rust host. Great native alternative to a Willow Tree. |
| <i>Allocasuarina littoralis</i> | Black She-Oak | Native | Front Line/ Second Line | Elongated Oval | 12m | >15 upto 50 | No | Yes | Yes | No | Possibly on boundaries | Fast growing, nitrogen fixing tree. Makes excellent wind-break or shelterbelt species |
| <i>Banksia integrifolia</i> | Coast Banksia | Native | Front Line Coastal | Twisted informal | 4-15m x 1-6m | 40-100 | Yes | Yes | Yes | No | Yes | Adult leaves are stiff and arranged in whorls with a silvery underside. Pale yellow flowers through autumn followed by woody cones. Spot flowering can occur all year through. Can be multi-trunked in some situations. Fast growing, narrow upright. Useful low maintenance street tree. Can be pruned. Drought and frost tolerant. It has excellent resistance to Phytophthora cinnamomi. Attracts birds, bees, butterflies, insects, arboreal mammals and is a good seed source for cockatoos. |
| <i>Banksia marginata</i> | Silver Banksia | Native | Front Line/ Second Line | Plants can have various leaf types and growth habits includ- ing weeping foliage | 1-12m | 80+ | No | Yes | Yes | No | Yes | Numerous yellow or golden green flowers in a compact candle-shaped spike from september through april but can be all year long, followed by persistent woody cones. Form and size can vary considerably even within the same area. Variations also occur in leaf size and shape and physical features such as stem and leaf surfaces. Very hardy, long lived, salt tolerant, drought and frost tolerant and can survive in exposed windy sites. Prefers well drained soils but can tolerate moist or waterlogged sites. Attracts honey eating birds, insects and other wildlife. Can be susceptible to Phytophthora cinnamomi disease. |

Planting Waverley Council Plants Species List

| | | | | | | | | | | | | |
|--|---------------------|------------------------------|-----------------------------|--|---------------|----------------------|-------------------|-----|-----|-----|---------------------|--|
| <i>Banksia serrata</i> | Old Man Banksia | Native | Front Line/ Second Line | Informal oval, prostrate in exposed coastal situations | 3-15m x 2-4m | Over 100 years | No | Yes | Yes | No | Yes possibly | Cream, yellow or brown coloured flowers in spikes from late summer through autumn followed by woody seed cones. Leaves are stiff with serrated edges. Prefers sandy soils and good drainage. Very hardy once established. Attracts birds, insects, arboreal mammals and is a good seed source for cockatoos. In bushlands can be susceptible to Phytophthora cinnamomi disease. |
| <i>Callistemon viminalis</i> | Weeping Bottlebrush | Native | No | Oval Weeping | 8m | >50 | Yes | No | Yes | No | Yes | Can attract Noisy Miners. Choose planting sites carefully. Especially if trying to provide small bird habitat. Attractive red bottlebrush shaped flowers in spikes from spring through autumn or all the year through. Leaves are lanceolate. Common along watercourses. Does best in moist well drained soils in full or partial sun but can grow in heavily waterlogged soils as well as shady wet situations. Good screen plant, in erosion control or as a street tree. |
| <i>Callistemon salignus also known as Melaleuca salicina</i> | Willow Bottlebrush | Endemic to Eastern Australia | Possible secondline coastal | Spreading | 1-10m x 1.5 m | 20-40 yrs | No | No | Yes | Yes | Possible | The pink to red new foliage and its yellow flowers are the best qualities of this very adaptable bottlebrush. Flowering in spring, summer and autumn. Can tolerate waterlogged soils for extended periods as well as is drought tolerant. Roots can become invasive, so keep away from buildings. Tolerates heavy frost. Pollution tolerant. Likes full sun or light shade. Good as a screening plant, windbreak, for erosion control and in bog gardens. Attracts bees, nectar eating birds, butterflies and other insects. |
| <i>Calodendrum capense</i> | Cape Chestnut | Exotic | No | Broad Domed | 10m x 6m | no data | Yes | No | Yes | No | Yes | Suitable for special areas only. Pink flowers in large massed terminal heads in spring. Excellent specimen and avenue tree. Dense canopy. When in bloom, the whole tree turns pink. |
| <i>Casuarina equisetifolia</i> | Coast Sheoak | Native | Front Line Coastal | Columnar irregular | 9m x 5m | 40-50 | No | Yes | Yes | No | Possible on borders | Wide spreading. Good wind breaker. Drooping branches. |
| <i>Ceratopetalum gummiferum</i> | NSW Christmas Bush | Native | No | Pyramidal | 10m x 4m | Long, beyond 100 yrs | Yes | Yes | Yes | No | Yes | Very showy massed display of red sepals. Inconspicuous white flowers followed by bright red showy sepals. Flowers appear in October followed by the sepals around christmas time. |
| <i>Elaeocarpus reticulatus</i> | Blueberry Ash | Native | No | Slender oval | 6-10m x 4m | >50 | Yes, in a cluster | Yes | Yes | No | Yes | Look good in groups. Beautiful downward facing white to pale pink flowers with fringed petals, hanging like bells in late spring, followed by small oval bright blue fruits ripening through april to october. Flowers have a light fragrance. Does well in full sun or partial shade. Can be used for hedging. Nectar attracts birds, bees, butterflies and insects. |
| <i>Eucalyptus haemastoma</i> | Scribbly Gum | Native | Front Line/ Second Line | Elongated umbrella shaped | 8m x 6m | Long beyond 100 yrs | No | Yes | Yes | No | Yes | Consistent with character of the area. Open crown of grey/silver coloured foliage - often multiple trunks. Flowers white, from autumn through spring. Nectar attracts birds and insects. Attracts the larvae of scribbly gum moth. |
| <i>Ficus coronata</i> | Creek Sandpaper Fig | Native | No | Irregular | 6-12m x 3-5m | no data | No | Yes | Yes | No | Possibly | Common near water courses. Food plant for caterpillars of butterflies, many species of birds and the flying fox. Very hardy. Can tolerate poor soil and poor light. Has texturally interesting leaves. Fruits grow off trunk and leaf bases. |

Waverley Council Plants Species List Planting

| | | | | | | | | | | | | | |
|---|----------------------------|--------|---|------------------------|----------------------------------|----------------|----------|-----|-----|----|----------|----------|---|
| <i>Ficus rubiginosa</i> | Port Jackson Fig | Native | Second Line Coastal | Dome shaped, spreading | 10m x 12m | Over 100 years | No | Yes | Yes | No | No | No | Can be kept under 7m high with yearly to two yearly pruning. Can develop invasive root system around built infrastructure. Foliage bright shiny green with rusty underside. Fruits eaten by several species of birds and also flying foxes. |
| <i>Glochidion jerdinandi</i> | Cheese Tree | Native | Second Line Coastal | Rounded | 8m x 5m | >60 | No | Yes | Yes | No | Yes | Yes | Shrub to medium sized broad tree. A handsome easily established species with good habitat value. Can be weedy in bushland remnants. Thirsty. Small greenish yellow flowers between July and December. Fruit is red small and pumpkin shaped. Fruits are eaten by several species of birds. |
| <i>Hibiscus tiliaceus 'rubra'</i> | Bronze Cotton-wood | Exotic | Second Line Coastal | Rounded | 6-8m x 6-8m | no data | Yes | No | Yes | No | Yes | Yes | Dense, low crown. Suffer in drought conditions and can be susceptible to unsightly mealy bug infestions. High establishment rates and a fast grower. Bright powder-yellow flowers with a deep red spot in the middle, in spring. Red green foliage. Dense habit. |
| <i>Melaleuca leucadendra</i> | Fine Leafed Paperbark | Exotic | No | Columnar | 10m x 7m | >15 yrs | No | No | Yes | No | Possible | Possible | Myrtle rust host. Cream, white or greenish white flowers in spikes at any time in the year. Bark is white. |
| <i>Melaleuca linariifolia 'snow in summer'</i> | Melaleuca 'Snow in Summer' | Native | No | Round | 8-10m x 5-7 m | 60 yrs | Yes | No | Yes | No | Yes | Yes | Myrtle rust host. A hardy tree. Prominent fluffy white flowers in clusters in spring and summer. Leaves are linear in shape. Adaptable to a wide range of climates and soils. |
| <i>Syzygium australe</i> | Brush Cherry | Native | Common to coastal and highland rain forests. Neither frontline or secondline coastal. | columnar bushy | 6-15m tall in cultivation x 3-6m | no data | No | Yes | Yes | No | Yes | Yes | White flowers from November to February followed by large fleshy pink-red attractive fruits, edible and often made into jams. Wind tolerant. Foliage grows right down to ground making it a good choice for hedging. Prone to psyllids. Prefers rich soils. Non-invasive roots. Adaptable to most conditions. |
| Large (over 12 metres) | | | | | | | | | | | | | |
| <i>Armena smithii</i> also known as <i>Syzygium smithii</i> | Lillypilly | Native | No | Round | 15-20m | 100-200 yrs | Yes | Yes | Yes | No | No | No | Be careful where these berry-producing plants are installed. They will attract birds such as Currawongs that also feed on small birds. White fragrant flowers in spring followed by abundant pale pink-maroon fruits in autumn. Trunk is rich red-brown in colour with a bubby texture. Excellent insect & bird attracting tree. Many varieties are available. |
| <i>Araucaria columnaris</i> | Cook Island Pine | Exotic | Front Line Coastal | Columnar | 25m x 7m | Long | Possible | No | Yes | No | Yes | Yes | Slender spire-like crown. Short branches in whorls around the trunk. |
| <i>Araucaria heterophylla</i> | Norfolk Island Pine | Exotic | Front Line Coastal | Pyramidal | 30m x 15m | Long | Possible | No | Yes | No | Yes | Yes | Whorled braches. Fast growing amongst araucarias. |
| <i>Brachycton acerifolius</i> | Illawarra Flame Tree | Native | No | Columnar spreading | 10-40m x 5-15 m | Long | Yes | Yes | Yes | No | No | No | Suitable for special areas only. Spectacular bell shaped crimson flowers, in clusters in spring and summers. Deciduous in summers. Hardy in a wide range of soils. Great as a feature plant. Attracts bees, nectar eating birds, butterflies and insects. |
| <i>Casuarina glauca</i> | Swamp she-oak | Native | Front Line Coastal | Columnar conical | 10-20m x 6-8 m | 100-200 yrs | No | Yes | Yes | No | No | No | A good windbreak tree. Wind and salt tolerant. Good for saline soils. Good for seasonal waterlogging areas. Fast growing, nitrogen fixing. Likes full sun. Has excellent potential to remediate discharge areas affected by salinity and seasonally waterlogging. Useful for sites subjected to heavy erosion as it has strong propensity to form root suckers. |

Planting Waverley Council Plants Species List

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|--|--------------------|----------------|----------------------|---|--|-------------------------|-----|-----|-----|----|-----|---|
| <i>Corymbia gummifera</i> | Red Bloodwood | Native | Second Line Coastal | Columnar with long trunks with irregular canopy | 20-25m x 10m | Over 100 years | No | Yes | Yes | No | No | Profuse white or creamy flowers on terminal branchlets from late summer to early autumn. Nectar attracts birds and insects. Fruit eaten by cockatoos. Sap eaten for food by glider possums. Older trees develop hollow branches which provide breeding & roosting opportunities for many species. |
| <i>Corymbia maculata</i> | Spotted Gum | Native | Second Line Coastal | Columnar with long trunks | 30m x 10m | no data | No | Yes | Yes | No | No | Might work in a grouped planting due to interesting bark, but not really in keeping with character of area. Small white flowers. Flowering from May to September. Moderately drought tolerant. Is an important commercial timber species. Shallow roots. Susceptible to stem girdling by parrots. |
| <i>Eucalyptus botryoides</i> | Bangalay | Native | Frontline coastal | Tall upright with spreading canopy | 20m x 7-9 m | Long lived upto 600 yrs | No | Yes | Yes | No | No | Only suitable place for such a tree where it would not need its limbs pruned. Has a habit of shedding limbs without warning even when the tree is in a healthy condition. Known for its hard, pink to dark red wood. Timber good for furniture. |
| <i>Eucalyptus leucosylon Megalacarpophylla</i> | Yellow Gum | Not indigenous | Second Line Coastal | Round | 8-10 m x 5-6 m | no data | Yes | No | Yes | No | Yes | High branching, varied form Will attract honeyeaters such as bullying Noisy Miners. Roots known to cause sewer and drain blockages. Grey green foliage, pendulous branches. Flowers large pink appearing in summer. |
| <i>Eucalyptus piperita</i> | Sydney Peppermint | Native | Second Line Coastal | Tall irregularly shaped | 20m x 15m averages 8-10 m in height with a spread of 4-5 m | no data | No | Yes | Yes | No | No | Creamy white flowers in clusters. Foliage has strong distinctive peppermint aroma. Requires full sun. Nectar and pollen highly sought after by fauna when tree is in flower. Grey flaky rough bark. |
| <i>Eucalyptus robusta</i> | Swamp Mahogany | Native | No | Irregular columnar | 20-30m tall | Over 20 years | No | Yes | Yes | No | No | Has a habit of shedding limbs without warning even when the tree is in a healthy condition. White creamy flowers in autumn to winter. Grows well in swampy waterlogged soils. |
| <i>Eucalyptus tereticornis</i> | Forest Red Gum | Native | Second Line Coastal | Very tall, linear | 30m-50m x 10m | 15-40 years | No | No | Yes | No | No | A very tall tree not really of local character. Fast growing. Mainly cultivated in forestry plantations. White filamentous flowers June to November. Drought sensitive. |
| <i>Ficus macrophylla</i> | Moreton Bay Fig | Native | No | Large spreading umbrella shaped | 15-35m x 15-35m | Long | No | Yes | Yes | No | No | Large Evergreen Banyan Tree. Known for its imposing buttress roots. It is a strangler fig which strangles its host and eventually becomes a free standing tree by itself. |
| <i>Ficus microcarpa var. Hillii</i> | Hill's Weeping Fig | Not indigenous | Native to Queensland | Broad canopy | 15-20m x 12-16m | Long | No | No | Yes | No | Yes | Large Tree. Dense foliage. A very hardy tree. Roots are invasive and wide spreading. Should not be planted close to buildings and pipes. |
| <i>Jacaranda mimosifolia</i> | Jacaranda | Exotic | No | Dome shaped, branches ascending | 10m x 8 m | 80-90 years | Yes | No | Yes | No | Yes | Suitable for special areas. Beautiful long lasting blue flowers in summer with green soft foliage. Fast growing. Likes full sun in most soil types. It can handle periods of drought and periods of wet weather. Deciduous. |

| | | | | | | | | | | | | | |
|--|--------------------------|-------------------------------------|---|---------------------------------|--------------------------------|--------------------------|----------------------|----------------------|--------------|--|--------------------|--|---|
| <i>Lophostemon confertus</i> | Brush Box | Native | Possible secondline coastal | Dense elongated rounded canopy | 10-15m x 6-12 m | Over 20 years | Yes | No | Yes | Yes | Yes | Yes | Can be a weed in Sydney bushland. Good for urban landscapes. Very hardy & reliable. Lush dense foliage. Bark has salmon tones. White flowers in spring and summer. Robust strong and tolerates a wide variety of soils and climatic conditions. Can be pruned. Fire retardant, smog and drought tolerant. Fast growing. Good as a wind break, screen, in erosion control. Is a honey producing, bird nesting plant. Disease & pest resilient. Rarely sheds limbs. |
| <i>Magnolia grandiflora</i> | Bull Bay Magnolia | Exotic | Second Line coastal. These trees are tolerant of the typically sandy conditions associated with living along the coast. | Oval dome shaped | 25m x 10 m | 80-100 years | Yes | No | Yes | No | Yes | Suitable for special areas only. A beautiful dense tree with dark green glossy leaves. Large, elegant, cup shaped, white fragrant flowers in spring to summer. | |
| <i>Melaleuca quinquenervia</i> | Broad Leaf Paperbark | Native | No | Columnar, elliptical | 15-20m x | More than 100 years | No | Yes | Yes | No | No | Myrtle rust host. Very fast growing. White to cream coloured bottle brush like flowers at the end of summer and into autumn. Suitable for parks and gardens only as it develops a massive trunk. Used for revegetation where erosion control is required. Resistant to termite attack. Attracts wide range of fauna, specially birds and bats. | |
| <i>Melia azedarach var. australasica</i> | White Cedar | Native | Deciduous native | Umbrella shaped | 6-12m in height x 6-12m spread | 20 years | Yes | No | Yes | No | No | A good choice if you need a deciduous native tree. Deciduous between June and August. Fruits are poisonous to humans. Fragrant lilac flowers in summer. Drought and frost tolerant once established. Prefers partial shade. | |
| <i>Zelkova serrata</i> | Green Vase, Japanese Elm | Exotic | No | Triangular upturned vase shaped | 12-15m x 10-12 m | 20-80 yrs | Yes | No | Yes | Yes | Yes | Hardy. Deciduous. Leaves are alternately arranged. Short main trunk, low branching. Famous for its fall colours - foliage turns lemon-yellow to bright-red in autumn. Fast growing. Deep root system. Likes full sun or partial shade. | |
| Palms in Parks | | | | | | | | | | | | | |
| Application | | | | | | | | | | | | | |
| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Longevity (Years) | Accent Plants | re-vegetation | parks | Plants for Stormwater Quality Improvement | Playgrounds | Notes on Form / Maintenance / Performance | |
| <i>Archontophoenix cunninghamiana</i> | Bangalow Palm | Native | No | Tall, slender | 20m x | possibly 40-60 years | No | Yes | Yes | No | Yes | Attractive red fruits. Good for wet areas and gullies. Popular in parks. | |
| <i>Howea forsteriana</i> | Kentia Palm | Native | Second Line Coastal | Tall, slender | 5-10m x 2m | possibly 40-60 years | No | No | Yes | No | Yes | Palm. Species considered vulnerable by world Conservation Union. Elegant. Does not do well in temperatures below 10. Slow growing. | |
| <i>Livistona australis</i> | Cabbage-tree Palm | Native | Front Line Coastal | Tall, slender | 25-30m x 4-6m | possibly 40-60 years | No | Yes | Yes | No | Yes | Salt, frost and wind tolerant | |

Planting Waverley Council Plants Species List

Shrubs

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Accent Plants | Application | | | | | Notes on Form / Maintenance / Performance |
|------------------------------|--|------------------------------|-----------------------------|-------------------------------------|------------------------|---------------|--|---------------|-------|---|-------------|---|
| | | | | | | | Streetscape (traffic calming devices and verges) | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | Playgrounds | |
| Small (less than 1m) | | | | | | | | | | | | |
| <i>Acacia myrtifolia</i> | Myrtle Wattle, Red-stemmed wattle | Native | No | Irregular, bushy | 1-2m x 1-2m | No | No | Yes | Yes | No | Yes | Distinctive reddish stem. Globular, clustered, cream flowers in spring. Mature plant does not have true leaves but has leaflike flattened stems called phyllodes. They are elliptic & slightly curved. Hardy in most reasonably drained soils and can be lightly pruned. Prefers full sun and is moderately frost tolerant. |
| <i>Acacia suaveolens</i> | Sweet scented Wattle | Native | Possible secondline coastal | Prostrate to erect | 0.3 - 3.0 m tall | No | No | Yes | Yes | No | Possible | Sweet smelling pale yellow to near white globular flowers in small clumps from winter to early spring. Lives up to 15 years. Highly variable both in foliage and growth pattern. Flowers and seeds are a food source for a variety of birds and invertebrates. Easy to maintain. Can be pruned. Species provides winter colour and can be used as low screen plant. |
| <i>Baeckea imbricata</i> | Spindly Heath Myrtle | Native | Front Line Coastal | Erect or spreading, bushy | 1m x 1m | No | No | Yes | Yes | No | Possible | White flowers from early spring to late autumn. Interesting cross leaf arrangement. Very hardy. Tolerates high winds. Likes full sun to low sun. Can be grown as a low hedge. |
| <i>Correa reflexa</i> | Common Correa / Native Fuchsia | Native | No | Mound-shaped, can be prostrate | 0.5-1.2m x 0.5-1m | No | No | No | Yes | No | Yes | Bell shaped long flowers, pale green, red, or red with cream tips mainly from winter to early spring but flowers most year through. Attracts honey eating birds, bees, butterflies and other insects. Prefers well drained soils and likes semi-shade but can grow in any conditions. Hardy. Rarely troubled by pests or disease. Good groundcover or border plant. |
| <i>Darwinia fascicularis</i> | None recorded | Native | Requires adequate moisture | neat compact round | 1mx1m | Possible | No | Yes | Yes | No | Yes | Light green needle-like leaves crowded at the end of branches, opposite or whorled around the stem. Attractive flowers in clusters nestled in the foliage from early spring to late autumn. They open creamy-white and turn bright red with age. Useful for cut flowers. Requires good drainage. Frost hardy. Grow well in full sun to heavy shade. |
| <i>Micromyrtus ciliata</i> | Fringed Heath-myrtle | Native | Possible secondline coastal | small Spreading, prostrate | 0.5m - 1m x 0.5 - 2m | Yes | No | Yes | Yes | No | Yes | Small white, red or pink flowers from spring to early summer. Scented foliage. Drought resistant. Likes full sun to light shade and well drained soils. Good for cut flowers, as a border plant, feature plant, groundcover, fragrant oils, erosion control, pipe and drain friendly. Honey producing. Attracts bees, butterflies and other insects. |
| <i>Olearia tomentosa</i> | Toothed Daisy Bush or Downy Daisy Bush | Native | No | Compact mounding | 0.75-1 m x 0.75-1 m | Yes | Possible | Yes | Yes | No | Yes | Masses of daisy flowers open up mauve and age to pure white. Flowering in spring and summer. Can be pruned. Prefers moist free draining soil and sunny or light shade conditions. Attracts bees and butterflies. Drought resistant, tolerates light frost. |
| <i>Pimelea linifolia</i> | Slender Riceflower, Queen-of-the-bush | Native | No | Prostrate to erect. Stems globulous | Prostrate to 1.5m high | Yes | Possible | Yes | Yes | No | No | Attractive white to pink flowers in bracteate heads in winter and spring, resembling exploding fireworks. Spectacular in masses. Elongated bluish green leaves. Toxic to livestock. Best planted in well drained soils in a protected position. Bark can be processed in a strong thread. Good for urban bushlands. |

Waverley Council Plants Species List Planting

| Large (more than 1m) | | | | | | | | | | | |
|-----------------------------------|-------------------|------------------------------------|-----------------------------|--|---------------------|----------|----------|-----|-----|-----|--|
| <i>Acacia sophorae</i> | Coastal Wattle | Native | Frontline coastal | Prostrate or decumbent | 2-3 m | No | No | Yes | Yes | No | Bright yellow flowers occurring in the axils of the phyllodes as elongated spikes in late winter and spring. Suited for a wide range of soils. Does not like waterlogged conditions. Tolerates sea spray and sand blast and provides protection for less hardy plants. Tolerant of light frost. The plant has become a weed in certain areas. Used for dune stabilisation. |
| <i>Adenanthos sericeus</i> | Albany Wolly Bush | Not Indigenous | possible frontline coastal | Upright oval | 0.5 - 5m x 2m | Yes | No | Yes | No | No | Small red inconspicuous flowers throughout the year forming a great source of nectar for honeyeaters. Silver-grey attractive contrasting foliage. Grows in a wide range of soils provided those are free-draining. Likes full sun but can adapt to semi-shade. Very hardy. Can be pruned. Vulnerable to borers. Also susceptible to <i>Phytophthora cinnamomi</i> and can have major issues with mealybugs. |
| <i>Atriplex nummularia</i> | Old Man Saltbush | Not Indigenous Native to Australia | Front Line Coastal | Bushy, irregular | 3x3m | No | Yes | No | Yes | Yes | Silvery grey foliage. Very adaptable. Very hardy. Can tolerate severe drought as well as periodic flooding. Salt and frost tolerant. Suitable for pruning. Useful as a windbreak. Can be grown as a hedge. |
| <i>Baeckea linifolia</i> | Weeping baeckea | Native | No | Weeping, in a 'tree' shape with a bare trunk | 1.5-2m high - 2m | Possible | Possible | Yes | Yes | Yes | Small white tea-tree like flowers in massed displays along the weeping branches in summer. Hardy in most well drained soils. Prefers full sun or dappled shade. Tolerates moderate frost. Once established can withstand extended dry conditions. Wind tolerant, fast growing. |
| <i>Banksia ericifolia</i> | Heath Banksia | Native | Possible secondline coastal | Round | 3-6m x 3-6 m | Yes | possible | Yes | No | Yes | Very beautiful plant, large striking spikes of yellow to reddish-orange flowers contrast with small, linear, light-green to greyish-green leaves. Flowering autumn to early spring. Attracts honey-eating birds. Likes sandy well drained soils. Portrays the unique Australian image, very adaptable and hardy. Tolerates frost. Likes full sun or semi-shade conditions. |
| <i>Banksia robur</i> | Swamp Banksia | Native | possible secondline coastal | Spreading | 2-2.5m x 2m | Yes | Possible | No | Yes | Yes | Greenish-yellow long flower heads changing to dull orange and brown with age, in winter and early spring, but can occur throughout the year. Leaves are stiff, leathery, egg shaped and broadest at the tip, and shiny above, dull beneath. Seeds in hairy woody follicles, retained on the plant for a considerable period. Will tolerate poor soils and poor drainage. Very hardy. |
| <i>Bauera rubioides</i> | Dog Rose | Native | Needs moist soil | Spreading | 0.3-1.5m x 0.5 - 1m | Yes | No | Yes | Yes | Yes | Grows well in moist soils and flowers well in shady spots. Attractive delicate white or deep to mid pink flowers with a mass of yellow stamens, flowering sporadically throughout the year. Makes great understory and is a good feature plant. Can be grown as a low hedge or screen. Likes consistent moist soil. Attracts bees and butterflies. Can be short-lived if not planted in right soil and water conditions. |
| <i>Callistemon 'Captain Cook'</i> | Captain Cook | Not Indigenous, Cultivar | Possible secondline coastal | Erect, compact, spreading | 1.5-2m x 1-1.5 m | Yes | Yes | No | Yes | Yes | Bright pinkish- red bottle-brush shaped flowers in spring and summer. Lance shaped leaves. Hardy. Flowers best in full sun or partial shade. Drought resistant. Long lived. Ideal for screening, hedging or as a feature plant. Attracts bees, nectar eating birds, butterflies and other insects. |

Planting Waverley Council Plants Species List

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| <i>Callistemon 'Western Glory'</i> | Bottle brush | Not Indigenous, Hybrid | No | | | Yes | Possible | No | Yes | No | Yes | Yes | Bright red to rose pink bottle-brush shaped flowers in mid to late spring. Lance shaped leaves. Hardy. Flowers best in full sun or partial shade. Tolerates drought & moderate frost. Ideal for screening, hedging or as a feature plant. Attracts birds. |
| <i>Calytrix tetragona</i> | Common Fringe-myrtle | Native | No | | | No | No | No | Yes | No | Yes | Yes | Leaves are tiny, slightly fleshy and give out a spicy perfume when bruised. White or pink star-shaped flowers in clusters in October upto December. Hardy. Attracts bees in flowering season. After flowering the calyces hang on for some weeks with long curling threads in golden bronze or purplish colour and give the plant a feathery effect. Good as feature plant, screen or as a windbreak. Tolerates light frost. Drought resistant. |
| <i>Correa alba</i> | White Correa | Native | Front Line Coastal | | | | Yes | Yes | No | Yes | Yes | Yes | Low, dense shrub. Leaves are oval and greyish in colour. White flowers from leaf axils in a flora tube split to give a star shape, from late autumn to winter. Can flower at other times in the year. Very hardy. Resistant to salt sprays and moderate frost. Responds well to pruning. Attracts nectar eating birds and other insects. Good border plant. Attractive foliage. |
| <i>Crinum pedunculatum</i> | Swamp Lily | Native | Secondline coastal | | | Yes | Yes | Yes | No | Yes | Yes | Yes | Pleasantly perfumed white showy flowers in clusters from november to march. Grows well in swampy areas. Does well in full sun to 70% shade. Can be planted successfully below eucalypts. Suitable for coastal areas and tolerates frost. Susceptible to some caterpillars and snails and slugs. |
| <i>Doryanthes excelsa</i> | Gymea Lily | Native. Endemic to coastal areas of NSW near Sydney | Possible secondline coastal | | | Yes | Possible | Yes | Yes | No | Yes | Yes | Attractive flowers, bold foliage. Large red trumpet-like flowers on terminal heads on long flowering stems 2-4 m high from October to November. Plants do best in deep soil. Suitable for large rockeries and gardens, as a feature plant, as a screen and windbreak. Likes full sun or partial shade. Plant frost resistant but flowers need frost protection. Pollution tolerant, used in erosion control. Attracts nectar feeding birds, butterflies, bees and other insects. |
| <i>Grevillea mucronulata</i> | Green spider flower | Native, Endemic to NSW | No | | | No | No | No | Yes | Yes | Yes | Yes | Green to reddish brown spider-like flowers in pendant clusters most of the year. Leaf and flower colours vary. A hardy plant. Likes well drained sunny areas. Attracts bees and honeyeaters. |
| <i>Grevillea sericea</i> | Pink Spider Flower | Native | No | | | No | Possible | No | Yes | No | Yes | Yes | Cream, pink or mauve spider-like flowers mainly from August to December, but flowers all year. Leaves in whorls of 3. Prefers sunny to semi-shade conditions. Does not attract birds or bees. Fast growing. Good as a hedge plant. |
| <i>Grevillea speciosa</i> | Red Spider Flower | Native, Endemic to NSW | No | | | No | Possible | Yes | Yes | No | Yes | Yes | Masses of bright red spider-like flowers mainly through winter and spring but flowers June through to March. Ideal for smaller nectar feeding birds like spinebills and honeyeaters. Fast growing. Likes full sun or light shade. |
| <i>Hakea gibbosa</i> | Hairy Hakea | Native | No | | | No | No | Yes | Yes, away from pedestrian areas | No | No | No | Very prickly do not plant near pedestrian areas. Stiff grey-green long needle-like leaves covered with fine hair. Has a particularly attractive dense habit. Small cream coloured flowers in loose clusters during early winter followed by large ovoid pods. Likes open sun and makes a good screening hedging plant. |
| <i>Hakea teretifolia</i> | Daggar Hakea | Native | No | | | No | No | Yes | Yes, away from pedestrian areas | No | No | No | Prickly. White flowers on braches, from September to February. Interesting dagger shaped seed pods. Attracts small birds and honeyeaters. Is a good prickly deterrent. |

Waverley Council Plants Species List Planting

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| <i>Jacksonia scoparia</i> | Dogwood | Native | No | | | | | | | | | | | | | | Masses of yellow to light orange pea-like flowers in racemes from late spring to summer. Greyish foliage. Flat angular or winged branches which are entirely leafless. Hardy and adaptable. Does well in full sun or partial shade. Good as a small shade tree, specimen or fence cover. Requires good drainage. |
| <i>Kunzea ambigua</i> | Tick bush | Native | No | | | | | | | | | | | | | | Masses of small, honey-scented white flowers borne in heavy sprays in spring. Leaves are small and crowded. Distinctive bowl-shaped seed capsules, often with a rosy bloom. Adapts to many situations. Good as a background shrub, for screening or as a feature plant. Grows well in sandstone and granite based soils. Very hardy. Can withstand moderate frost. Attracts bees, nectar eating birds, butterflies and other insects. |
| <i>Leptospermum laevigatum</i> | Coastal Tea Tree | Native | Possible | dline coastal | | | | | | | | | | | | | White 5 petalled flower, flowering April to October. Foliage greyish, attractive. Fruit woody, attractive, flat topped containing many seeds. Salt resistant and very hardy. Plants prefer full sun or partial shade. Highly invasive outside its natural habitat. |
| <i>Leptospermum squarrosum</i> | Pink Tea-tree, Peach blossom tea-tree | Native | Possible | coastal | | | | | | | | | | | | | White to pink 5 petalled flower, flowering irregularly but often from autumn, through winter up to spring. Fruit woody, attractive, flat topped containing many seeds. Extremely hardy. Tolerant of both well drained and damp conditions. Good as an informal hedge, windbreak and is salt resistant. |
| <i>Leptospermum polygalifolium</i> | Yellow Tea-tree, Taintoon | Native | No | | | | | | | | | | | | | | White to greenish attractive flowers in spring to early summer. Leaves are sometimes aromatic. Fruit woody, attractive, flat topped containing many seeds. Has high wildlife value and is valued as an ornamental and a hedge plant. Tolerates light frost and low level non-continuous waterlogging. |
| <i>Macrozamia communis</i> | Burrawang | Native | Possible | dline coastal | | | | | | | | | | | | | Type of Australian cycad. Large trunked. Sought after for its highly ornamental qualities. Prefers partially shaded locations. Can adapt to full sun with adequate watering. Transplants readily. Can be affected by mealybugs. Can live upto 120 years. Generally forms subterranean stems when in sand dunes. |
| <i>Melaleuca ericifolia</i> | Swamp Paperbark | Native | No | | | | | | | | | | | | | | Profuse, cream coloured bottle brush-like flowers in spring and summer. Pale white or brownish papery bark. Tolerant of most soils and situations including waterlogging and heavy frost. Responds to pruning, can be grown as a hedge or screen. Excellent as a shelterbelt for animals and a wind break. Likes full sun or partial shade. Grows well besides streams and coastal swamps. This melaleuca has fragrant flowers which attract birds. |
| <i>Melaleuca nodosa</i> | Ball Honey Myrtle, Prickly-leaved paperbark | Native | No | | | | | | | | | | | | | | Corky to papery bark. White to yellow flowers in dense inflorescences from September to November but also April through to January. Leaves narrow, needle-like. Fruits are woody, cup-shaped. Hardy. Adaptable to wide variety of climates and soils. Attracts native bees, honey bees and other insects. |
| <i>Phyllanthea myoporoides</i> 'Profusion' | Long-Leaf Wax Flower - compact form | Native cultivar | No | | | | | | | | | | | | | | Masses of starry white flowers following pink buds in spring. Adapts well to wide range of environments. Leaves have a wonderful apple-like fragrance when crushed. Frost tolerant. Grows well in full sun or partial shade. Attracts insects. |

Planting Waverley Council Plants Species List

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|--|--|--------|--------------------|---------------|-------------------------------|-----|----------|-----|-----|-----|-----|--|
| <i>Syzygium australe</i> 'Aussie Copper' | Brush Cherry, Aussie copper Lilly Pilly | Native | No | Columnar | 1-4m x 1.5 m | Yes | Possible | No | Yes | No | Yes | Glossy green leaves with copper coloured new growth. White filamentous flowers in spring. Attractively shaped red coloured fruits. Non-invasive roots. Good as specimen, can be grown as a hedge, along roadside, as a windbreak and is fast growing. Resistant to drought, pollution, frost, coastal exposure and tropical heat. Suitable for most soil conditions. Likes full sun or light shade. |
| <i>Syzygium australe</i> 'Blaze' | Lilly pilly, Rose apple | Native | No | Globular oval | 1.5 - 2.5m x 1.2 - 1.5m | Yes | Yes | No | Yes | No | Yes | A small naturally dense shrub with mid-sized glossy green leaves with bright red new growth. White to cream powder-puff flowers in spring are followed by pinkish fruits that attract birds. Low maintenance, drought tolerant, can grow in any soil types. Likes full sun to light shade conditions. Responds well to pruning and can be grown as a hedge. Good for screening, as a windbreak, erosion control and is play-ground friendly. Attracts bees, birds and butterflies. Fruits are edible and are eaten fresh or as a jam. |
| <i>Syzygium Australe</i> 'Select' | Lilly pilly 'select form', select scrub cherry | Native | No | Columnar | 3-5m x 1.5 m | No | No | No | Yes | No | Yes | A compact, bushy, large Australian native shrub with glossy dark green foliage and flushes of bronze-tinged new growth. 'Select' is a form of <i>Syzygium australe</i> that was introduced to replace the original species because of its resistance to Psyllid and 'clean' status. Fluffy white pendulous flowers in mid Summer followed by edible purplish-red berries. Thrives in full sun but will tolerate part shade. Is tolerant of most soil types and conditions and will withstand light frosts once established. Fast growing. Responds well to pruning and shaping. Great plant for hedging, screening and topiary work. |
| <i>Westringia fruticosa</i> | Coastal Rosemary | Native | Front Line Coastal | Globular | 1.5m x 1.5m sometimes 2m x 4m | Yes | Yes | Yes | Yes | Yes | Yes | Flowers are lightly scented, small white to pale mauve, hairy and have upper petal divided in two lobes. Flowering throughout the year but mainly spring to summer. Foliage grey to dark green with underside of leaves having a silvery tint. Very hardy, fast growing and long lived. Will grow in full sun or partial shade in most soil conditions. Can be pruned. Drought frost and salt spray tolerant. Good as a specimen plant or for hedging and screening. Responds well to pruning and can be grown as a hedge. |

Waverley Council Plants Species List Planting

Tufting Plants

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Accent Plants | Streetscape (traffic calming devices and verges) | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | Playgrounds | Notes on Form / Maintenance / Performance |
|--|---------------------------|------------------------------|---|------------------|---------------------------|---------------|--|---------------|-------|---|--------------|---|
| | | | | | | | | | | | | Application |
| <i>Anigozanthos 'Bush gem'</i> | Kangaroo Paw | Native / Cultivar | Possible second line coastal | Free branching | 0.6 - 0.8 m x 0.45 m | Yes | No | No | Yes | No | Yes | Prolific flowering. Tough, disease tolerant plants. Varieties available. Bird attracting. Good for cut flowers. Full sun or partial shade conditions. Drought tolerant, coastal - salt tolerant, light frost tolerant. |
| <i>Anigozanthos 'Bush Gold'</i> | Kangaroo Paw | Native | Possible second line coastal | Tufting | 0.8 - 1m x 0.5 - 0.6 m | Yes | No | No | Yes | No | Yes | Yellow gold flowers all year through. Good for cut flowers. Attracts bees, nectar eating birds & butterflies. Good disease tolerance. Full sun or partial shade conditions. Drought tolerant, coastal - salt tolerant, light frost tolerant. |
| <i>Carex appressa</i> | Tall Sedge | Native | Possibly not | Densely tufted | 0.8 - 1m x 1 m | No | No | Yes | Yes | Yes | No | Foliage may scratch, so keep away from pedestrian traffic. Forms great foliage contrast. Very hardy and can be used in both wet and dry aspects of landscape. Ideal for rain gardens. Full sun to partial shade conditions. Medium frost tolerant. |
| <i>Carex inversa</i> | Common Sedge, Knob sedge | Native | Possible Front Line Coastal | Loosely tufted | 0.1 - 0.5 m x 0.1 - 0.3 m | No | No | No | Yes | Yes | No | High frost tolerance, high coastal tolerance, high drought tolerance |
| <i>Clivea minata</i> | Clivea | Exotic | No | Tufting | 0.45m x 0.45 m | Yes | No | No | Yes | No | Yes | Stunning large funnel-shaped, faintly perfumed flowers in vibrant shades of red, yellow and orange in spring and summer followed by showy brightly coloured berries. Good ornamental plant. Can withstand light frost. Requires dappled shade outdoors. |
| <i>Dianella congesta</i> | Beach flax lily | Native | Front Line Coastal | Tufting | 1.0 x 2.5m | Yes | Yes | No | Yes | No | Yes | Mild to dark blue flowers in spring-summer followed by bright shiny blue-purple berries. A very hardy plant. |
| <i>Dianella caerulea</i> | Blue flax lily | Native | Possible secondline coastal | Tufting | 1.2m x 0.6m | Yes | Yes | Yes | Yes | Yes | Yes | Dark green blade like leaves with blue flowers in spring and summer followed by indigo coloured berries. Very hardy and long living. Attracts fruit eating birds and butterflies. |
| <i>Dichelachne crinata</i> | Long Haired Plume Grass | Native | Possible secondline coastal | Tufting, erect | 1.5m tall | No | No | Yes | Yes | No | No | Tall upright seed heads whitish purple. Does well near the shore as well as in woodlands. Does well in full sun to 50% shade. |
| <i>Dichopogon fimbriatus</i> also known as <i>Arthropodium fimbriatum</i> | Nodding Chocolate lily | Not Indigenous | No | Tuberous tufting | 0.5-1.0m x 0.4m | No | No | No | Yes | No | Yes | Strong chocolate fragrances beautiful purple flowers with fringed petals from beginning of spring to late summer. Does well in all soils. Resilient and can survive a range of temperatures extremes, fires and grazing. Does well in full sun. |
| <i>Diplarrrena moraea</i> | Butterfly flag iris | Exotic | No | Tufting | 0.6 x 0.4m | Yes | No | No | Yes | No | Yes | Lightly scented white tri-petaled flowers in spring and summer, long narrow leaves. Does well in full sun. Frost hardy. Good resistance to insect and disease attack. |
| <i>Ficinia nodosa</i> (formerly: <i>Isolepis nodosa</i> cv. <i>arida</i>) | Knobby Club Rush | Native | Front Line Coastal | Tufting | 0.8 x 0.6m | No | No | Yes | Yes | Yes | Possibly yes | Upright to gently weeping sedge with evergreen deep green cylindrical foliage. Can take full exposure to ocean winds. Does well inland too. Semi-spherical brownish/cream flower at the top of the stems in spring and summer. Does well in full sun to 70% shade. Can handle light frost. |
| <i>Gahnia aspera</i> | Rough SawSedge | Native | No | Tufting | 0.75 x 0.6m | No | No | Yes | Yes | No | No | Long straplike leaves. Cream flowers in dense clusters. Attractive red berries. Keep away from pedestrian areas as leaves are very rough and can cut deep. Tolerates semi-shade. Does well in moist soils. Frost tolerant. |
| <i>Imperata cylindrica</i> | Blady grass, Cogon grass | Native | Possible second line coastal | Tufting, Erect | 0.6 - 3.0 m x 0.3m | No | No | Yes | Yes | No | Possibly yes | Fluffy white inflorescence. Has medicinal properties and can be used in papermaking, construction, as fibre and as an ornamental. Good for soil stabilization and erosion control. Tends to become an invasive weed in some areas as it adapts well to harsh conditions and any soil types. |
| <i>Juncus kraussii</i> | Sea Rush, Salt marsh rush | Native | Salt marshes, estuarine and coastal areas | Tussock forming | 1.0m x 1.0m | No | No | Yes | Yes | Yes | No | Deep green, cylindrical reed like, arching foliage. Grows well in full sun to 90% shade in permanently wet to dry soils. Flowers clustered, brownish, small in spring-summer. |
| <i>Juncus usitatus</i> | Common Rush | Native | No | Densely tufted | 0.4-1.1 m tall | No | No | Yes | Yes | Yes | No | Usually good around streams and river banks and damp sites. Good for wetland rehabilitation. Can become very dominant in wet environments. |

Planting Waverley Council Plants Species List

| | | | | | | | | | | | |
|--|------------------------------------|----------|--|--|-----|-----|-----|-----|-----|--------------|--|
| <i>Liriope muscari</i> | Evergreen Giant, Big Blue Lilytuft | Exotic | No | | Yes | No | Yes | Yes | No | Yes | Small showy white to violet-purple flowers in tiered whorls in late summer. Glossy dark arching leaves. Low maintenance, drought tolerant, hardy. Grows well in full sun or partial shade. Prone to snail attacks. |
| <i>Liberia paniculata</i> | White Native Iris, Grass Flag | Native | No | | Yes | Yes | Yes | Yes | No | Yes | White flowers in spring. Grows well in light shade. Tolerates light frost. Attracts butterflies and other insects. |
| <i>Lomandra longifolia</i> | Mat Rush | Native | Possible frontline coastal | | No | Yes | Yes | Yes | Yes | No | Grassy. Leaves are glossy green, shiny, firm and flat. Flowers are scented and attracts pollinating beetles. Flowering late winter/early spring till summer, straw-coloured sessile flowers. Highly drought tolerant but can also withstand occasional flooding and low temperatures. Used for basket weaving and tubers are eaten. Grows well in full sun to 70% shade. Will handle full exposure to coastal winds. |
| <i>Lomandra longifolia</i> 'Tanika' | Lomandra Tanika | Cultivar | Possibly not | | Yes | Yes | Yes | Yes | No | Yes | Soft evergreen grasslike foliage. Drought & frost tolerant. One of the toughest plants. Good for full sun to moderate shade conditions. Small yellow flowers from April to October. Is soft to touch. |
| <i>Paterosonia glabrata</i> | Native Iris | Native | No | | No | Yes | Yes | Yes | No | Yes | Recommended as a rocky plant in sunny situations. It has erect dark green leaves 15-30 cm long and blue to light purple tri-tepal flowers from September to November. |
| <i>Paterosonia longifolia</i> | Native Iris, Dwarf purple flag | Native | No | | No | Yes | Yes | Yes | No | Yes | Purple tri-tepal flowers. Require full sun and good drainage. Occurs on the coast and adjacent to sandstone plateaus. Bluish green leaves. Smaller plant than the sericea. |
| <i>Paterosonia sericea</i> | Native Iris, Silky purple flag | Native | No | | No | Yes | Yes | Yes | No | Yes | Deep violet-blue tri-tepal flowers from June to November. Grass-like silky greyish green leaves. Thrives in hot dry situations |
| <i>Phormium cookianum</i> also known as <i>Phormium colensoi</i> | Mountain flax | Exotic | Possibly not | | Yes | No | Yes | Yes | No | Yes | Greenish yellow or orange flowers grow into twisted seed pods. Used in maori traditional textiles. Bright green foliage. Low maintenance plant. Good for wet or dry conditions. sun or shade, exposed or sheltered. Good food source for native birds. |
| <i>Poa affinis</i> | Tussock Grass | Native | Possibly not | | No | Yes | Yes | Yes | No | No | Grass - grows in dryish sandstone areas or in soils based on sandstone |
| <i>Poa polyformis</i> | Coast Tussock Grass | Native | Coastal foreshores and estuaries | | No | Yes | Yes | Yes | No | Possibly yes | Grass - blue green leaves, full sun to partial shade conditions. Drought tolerant, salt tolerant, frost hardy. Fast growing. Grows in most soil types. Good for feature planting or revegetation projects. |
| <i>Sarcocornia quinqueflora</i> | Glasswort | Native | Grows along coasts, in dry lakes, saltmarshes and salt-pans. Grows between man-groves and the shoreline. | | No | Yes | Yes | Yes | Yes | No | Listed as "Endangered Ecological Community" in NSW Used in salads and dishes. |
| <i>Suaeda australis</i> | Seabite | Native | Coastal or estuarine shorelines or salt marshes | | No | Yes | Yes | Yes | No | No | Leaves are light green to purplish-red in colour, succulent, linear and flattened. |
| <i>Themeda australis</i> (coastal form) | Kangaroo Grass | Native | Coastal headland heaths | | No | Yes | Yes | Yes | Yes | No | Green to blue-green foliage in spring, changes to purple and later brown during autumn and winter. Vigorously growing. Highly shade tolerant. Drought tolerant. |

Waverley Council Plants Species List Planting

Groundcovers

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Accent Plants | Streetscape (Traffic calming devices and verges) | Re-vegetation | Parks | Plants for Storm-water Quality Improvement | Playgrounds | Notes on Form / Maintenance / Performance | Application | | | |
|--|---|------------------------------|--|----------------------------------|--------------------------------------|---------------|--|---------------|-------|--|-------------|---|-------------|---------------|-------|--|
| | | | | | | | | | | | | | Streetscape | Re-vegetation | Parks | Plants for Storm-water Quality Improvement |
| <i>Banksia integrifolia</i> (prostrate form) | Prostrate Banksia, Banksia 'Roller Coaster' | Not Indigenous, Cultivar | Possible Front Line Coastal | Prostrate | 0.15m tall x 4m wide | No | No | No | Yes | No | No | Lemon Yellow flowers in spikes from autumn to winter. Good for semi arid conditions, beach reclamation and erosion control. Drought tolerant and hardy to light frost. New growth is bronzy green. Leaf underside is very light contrasting with the dark green on top. | | | | |
| <i>Bolboschoenus caldwellii</i> | Club Rush | Native | For swamps | Grasslike, Erect | 0.3 - 0.9 m x 0.3m | No | No | Yes | Yes | Yes | No | Full sun or partial shade, Frost hardy and salt tolerant, easy to care. Stems are triangular in shape. Good wetland plant. | | | | |
| <i>Brachycome angustifolia</i> | Stiff Daisy | Native | No | Low spreading | 0.3m tall | No | No | No | Yes | No | Yes | Pink or light purple daisy flowers in spring. Moist soils in full sun or semi-shade conditions preferred. | | | | |
| <i>Carex pumila</i> | Strand or Spreading Sedge | Native | Front Line Coastal on sand dunes along the coast | Grass, Erect, Loosely tufted | 0.05-0.2m tall | No | No | Yes | Yes | No | No | Useful sand binding plant | | | | |
| <i>Carpobrotus glaucescens</i> | Pig Face | Native | Front Line Coastal | Prostrate, creeping | 0.1 - 0.3m x 1.3m | No | No | Yes | Yes | No | No | Succulent coastal groundcover with deep pink flowers in spring and autumn. Low maintenance. Good as a groundcover, feature plant or border plant. Fast growing. Helps with erosion control. Attracts bees, butterflies and other insects. | | | | |
| <i>Chryscephalum apiculatum</i> | Yellow buttons | Native | Suitable for both inland and coastal plantings. | Low, spreading | 0.2-0.6m x 1m | No | No | Yes | Yes | No | Yes | Golden yellow buttonlike flowers throughout the year but mostly spring. Beautiful silvery grey foliage. Caterpillars and aphids tend to attack the flower buds and new shoots. Reasonably long lived 6-10 yrs. Frost-hardy, salt, wind & drought tolerant. Fast growing. Prefers full sun. Food plant to Australian painted lady, a butterfly. Long-lasting cut flowers. | | | | |
| <i>Cotula coronopifolia</i> | Water Buttons | Naturalised non native | No | Erect to spreading | 0.05-0.1 m tall | No | No | Yes | Yes | Yes | No | Yellow buttonlike flowers in winter and spring. Grows well in wet soils that are periodically flooded. Good for waterlogged soils. Very salt-tolerant. | | | | |
| <i>Dichondra repens</i> | Kidney weed | Native | No | Small prostrate herbaceous plant | 0.2m x 1.5m | No | Possible | Yes | Yes | No | Yes | Good lawn substitute. Grows well in most climates. Fast growing. | | | | |
| <i>Einadia nutans</i> known as <i>Chenopodium nutans</i> | Nodding Saltbush, Climbing saltbush | Native | Front Line Coastal | Prostrate or twining | Prostrate or twining to 1m tall X 1m | Yes | No | Yes | Yes | No | Yes | Climbing groundcover. Leaves flat, triangular arrowhead shaped, alternate or opposite. Flowers inconspicuous green balls in summer, transforming into very conspicuous tiny attractive bright-red squashed spherical berries in autumn. Requires low maintenance and low water. | | | | |
| <i>Grevillea 'Proirinda Royal Mantle'</i> | Prostrate Grevillea | Not Indigenous Cultivar | possible secondline coastal | Prostrate, dense, spreading | 0.1 m x 3-8m | No | No | No | Yes | No | Yes | Toothbrush type red flowers all year through. Attractive toothed leaves. Attracts bees, nectar eating birds, butterflies and other insects. Low maintenance, drought resistant. Good for erosion control. Fast growing. Good for covering large areas. | | | | |
| <i>Grevillea curviflora</i> | Prostrate Grevillea | Native, Endemic to Perth | No | Prostrate to erect | 2.5m x 3-4.6m | No | No | No | Yes | No | Yes | Spider type white or cream flowers in late winter to mid-spring Aug-Oct. Attracts native bees. Grows well in sun or partial shade. Good for planting under large Eucalypts. Fast growing. Drought tolerant. Requires pruning. | | | | |
| <i>Grevillea 'gaudichaudii'</i> | Gaudichaudii | Endemic to NSW | possible secondline coastal | Prostrate | 0.2-0.3m x 1 to 3m | Possible | Possible | No | Yes | No | Yes | Red toothbrush style flowers in spring and summer. Ferny naturally dense foliage. Useful weed deterrent. Good for erosion control. Fast growing. Attracts nectar eating birds, butterflies and insects. Sunny, light shade conditions preferred. Tolerates light frost. Low maintenance, drought resistant. It is a naturally occurring hybrid between <i>Grevillea acanthifolia</i> subsp. <i>acanthifolia</i> and <i>Grevillea laurifolia</i> . | | | | |
| <i>Hibbertia diffusa</i> | Wedge Guinea Flower | Native | No | Prostrate | 0.3-0.5m x 0.5 - 1.5m | No | No | Yes | Yes | Yes | Yes | Yellow flowers over long periods in spring and summer. Hardy. Requires sunny or partial shade conditions and reasonable drainage. | | | | |

Planting Waverley Council Plants Species List

| | | | | | | | | | | | | | |
|--|--|----------------|---|----------------------------------|------------------------|----------|----|-----|-----|-----|----------|----------|---|
| <i>Pachystegia insignis</i> | Yellow Rock Daisy | Exotic | Frontline / secondline coastal | Globular | 0.8 - 0.9 m x 1.2 m | Yes | No | No | Yes | No | Yes | Yes | Beautiful tough ornamental plant. Soft velvet leaves. Large white gerbera like flowers with yellow centres. Likes full sun |
| <i>Peltargonium australe</i> | wild Geranium | Native | Frontline / secondline coastal | Spreading | 0.3 - 0.5m x 0.5-0.6 m | No | No | Yes | Yes | No | Yes | Yes | Flowers pink to white with dark markings, in umbels from October to March. Prefers sunny or lightly shaded places. Wind and salt tolerant |
| <i>Labellia alata</i> | Coastal Lobelia | Native | No | Trailing | 0.3 x Trailing | No | No | Yes | Yes | No | Yes | Yes | Good in swampy heaths, brackish marshes, wet rocks near sea. Mauve lobe shaped flowers in spring. Winged stems. Can withstand frost for short periods. |
| <i>Melanthera biflora</i> | Beach Sunflower | Native | Possible secondline coastal | spreading, scrambling habit | 2m tall | No | No | Yes | Yes | No | Yes | Yes | Medicinal value. Leaves valued against stomachache, flowers are used as a purgative. Plant can become woody at the base. Scrambles over ground or grows into other plants for support. Yellow daisy-like flowers. Moderately salt tolerant. |
| <i>Myoporum parvifolium</i> | Creeping Boobialla | Not Indigenous | No | Prostrate | 0.3m x 2m | No | No | No | Yes | No | Yes | Yes | Flowers star shaped, white or pale pink with purple spots. Flowering through late spring through to early autumn. Hardy plant. Good in sunny positions. Does not do well in shade. |
| <i>Opismenus aemulus</i> | Basket Grass | Native | No | weak trailing Creeping grasslike | 0.3m tall | No | No | Yes | Yes | No | Yes | Yes | Creeping grass; prefers shady forests, flowers most of the year. |
| <i>Plectantrus parviflorus</i> | Native Spur Flower | Native | No | Spreading, mound shaped | 0.4-0.5 m x 0.3-0.4 m | No | No | No | Yes | No | Yes | Yes | Blue-lilac perfumed flowers in spikes in spring summer and autumn. Leaves are variegated. Attracts butterflies and native bees. Low maintenance hardy plant. Grows well in sunny as well as difficult shady areas. |
| <i>Pratia purpurascens</i> | White Root | Native | No | ground hugging or standing | 0.15 tall | No | No | Yes | Yes | No | Possible | Possible | Grows in damp sheltered areas. Small herbaceous plant. Single white to pale purple flowers at end of long stalks. Flowering December to May |
| <i>Scaevola aemula</i> | Fairy Fan Flower | Native | Secondline coastal | Prostrate | 0.12 m x 1m | No | No | Yes | Yes | No | Yes | Yes | White or blue flowers on spikes from August to March. Prefers sunny or partially shaded conditions. Tolerates salt sprays and periods of drought. |
| <i>Scaevola calendulacea</i> | Dune Fan Flower | Native | Front Line Coastal | Spreading | 0.2 m x 2m | No | No | Yes | Yes | No | Yes | Yes | High salty winds tolerant. Moderately fragrant blue flowers from late spring to late autumn |
| <i>Sporobolus virginicus</i> | Sand couch, Saltland genie | Native | Front Line Coastal. High salt tolerance | Creeping | 0.3-0.5 m tall | No | No | Yes | Yes | Yes | No | No | Common to coastline |
| <i>Viola hederacea</i> also known as <i>Viola banksii</i> | Native Violet | Native | No | Spreading | 0.2 - 0.4m x 0.3 - 2m | No | No | Yes | Yes | Yes | Yes | Yes | Can be used as a lawn substitute in absence of foot traffic. |
| <i>Xerachrysium bracteatum</i> , name change from <i>Bracteantha bracteata</i> | Yellow Diamond Head, Everlasting Daisy | Native | No | Dense, Clumping | 0.2-0.5m x 0.2-0.5m | Possible | No | No | Yes | No | Yes | Yes | Golden flowers produced most of the year with best bloom in spring. Quick growing. Good for cut flowers. |

Waverley Council Plants Species List Planting

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Application | | | | | Notes on Form / Maintenance / Performance | |
|--------------------------------|------------------------|------------------------------|------------------|-----------------------------------|-------------------------------------|---------------|--|---------------|-------|---|---|---|
| | | | | | | Accent Plants | Streetscape (traffic calming devices and verges) | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | | Playgrounds |
| <i>Adiantum aethiopicum</i> | Common Maidenhair Fern | Native | No | Low, spreading clumps | 0.1-0.45m in height x 0.6-1.0m wide | No | No | Yes | Yes | No | Yes | Soft lacy plants. Very tough. Likes moist shaded locations. Good groundcover fern. Fronds are horizontal and layered. |
| <i>Asplenium australasicum</i> | Bird's Nest Fern | Native | No | Dome shaped, Spreading. | 1.5 m tall x upto 3m wide | Yes | No | Yes | Yes | No | Yes | Can grow on trees, rocks and in the soil. Consists of large elliptical shaped fronds arising from a central stem. Very hardy. Likes plenty of moisture although plants tend to rot in poorly drained soils. Prefers filtered sun. |
| <i>Blechnum ambiguum</i> | (none recorded) | Native | No | Semi-erect | 0.5m tall | No | No | Yes | Yes | No | Possible | Pendant shaped fronds. Fronds are pale green with pinkish new growth. Common on wet rocks, open forests and rain forests. |
| <i>Cyathea australis</i> | Rough Tree-fern | Native | Possible coastal | Palm-like Tree Fern | Up to 12m tall x 4-6m wide | Yes | No | Yes | Yes | No | Yes | Has a mass of hair-like scales on its trunk. Extremely hardy species capable of withstanding direct sun when the roots are wet. Tolerant of salty winds. Provides nesting substrate for red bees. This bee is a pollinator of other plants in Australia. Adaptable to a variety of climate and soils. |
| <i>Cyanthea cooperi</i> | Lacy Tree Fern | Native | No | Palm-like Tree Fern | 12m tall with 0.15 dia trunk | Yes | No | Yes | Yes | No | Yes | Delicate lacy bright green fast growing fronds. Has a more slender trunk than the <i>C. australis</i> with distinctive coin spots where old frond sheave broken off the trunk. Very hardy. |
| <i>Dicksonia antarctica</i> | Soft Tree Fern | Native | No | Palm-like Tree Fern | 12-15m x 6m | Yes | No | Yes | Yes | No | Yes | Likes moist areas with high water content. Has small round sori. Can be used as a host for epiphyte ferns, orchids and bryophytes. Provides shelter for more delicate ferns. Can be easily transplanted. Is a food source. Thrives equally well in sun or shade provided it has adequate water. |
| <i>Doodia aspera</i> | Rasp Fern | Native | No | Spreading | 0.35m tall | Possible | No | Yes | Yes | No | Yes | Fern adapted to both sunny and shaded areas. Grows best in shady conditions. Grows well in rainforests and eucalypt forests. Reddish new growth. Tolerant of short dry periods. Adaptable to cultivation. Drainage needs to be sufficient to prevent waterlogging. |
| <i>Histiopteris incisa</i> | Bats Wing Fern | Native | No | No data | 1-2m long fronds | Possible | No | Yes | Yes | No | Possibly No | Usually found in moist areas. Fronds are widely spaced. Soft in texture. Requires little sunlight. Highly aesthetic in appearance. Can become invasive in wet forests. |
| <i>Hypolepis muelleri</i> | Ground Fern | Native | No | Erect | 0.3 to 1m tall with an erect habit | No | No | Yes | Yes | No | Possibly No | Grows along creeks and swamps in open forest or margins of rainforest. The fronds are erect, stiff and harsh but soft to touch. |
| <i>Preridium esculentum</i> | Austral bracken | Native | No | Dense, spreading, Creeping roots. | 0.6-1.5m tall | No | No | Yes | Yes | No | Possibly No | Used as food, medicine. Common in dry and wet sclerophyll forest. Forms dense understorey. Is food for a variety of insects. Can be invasive. |

Planting Waverley Council Plants Species List

Vines / Climbers

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Application | | | | | | Notes on Form / Maintenance / Performance |
|--|------------------------|------------------------------|--------------------------------|---|---------------------------------|---------------|--|---------------|-------|---|-------------|---|
| | | | | | | Accent Plants | Streetscape (traffic calming devices and verges) | Re-vegetation | Parks | Plants for Stormwater Quality Improvement | Playgrounds | |
| <i>Billardiera scandens</i> | Apple Berry | Native | Possible secondline coastal | Climbing | 0.2- 1.5 m high x 0.5 - 3m wide | Yes | No | Yes | Yes | No | Yes | Good plant for all purposes. Non-invasive. Tough and adaptable. Excellent feature plant and screening plant. Attractive bell shaped pink and white flowers in clusters throughout spring. Good nectar provider for native birds. Fruits are edible. |
| <i>Cissus antarctica</i> | Kangaroo Vine | Native | No | Vigorous dense climber | 0.3-4 m high x 0.5 - 6 m wide | No | No | Yes | Yes | No | Yes | It is tough and reliable. Can also be used as groundcover. Can grow in light/shady to dark shady areas. Good for erosion control. Pollution tolerant, fast growing. |
| <i>Cissus hypoglauca</i> | Water Vine | Native | No | Woody, Climbing | Large | No | No | Yes | Yes | No | Yes | Edible fruits, used to make jams and jellies. Grows in well developed upland rain forest. Sap can be drunk as water. |
| <i>Hardenbergia violacea</i> | Purple Coral Pea | Native | No | Scrambling or more clumping shrubby plant habit; woody, evergreen | 0.2-0.8 m x 2-3m | Yes | Yes | Yes | Yes | No | Yes | Bright purple and possibly pink white & violet pea flowers in masses, in winter spring and possibly summer. Drought tolerant. Not frost tolerant. Fast growing. Highly sensitive to waterlogged soils. Tolerates partial shade. Popular as a garden ornamental. Attracts bees, butterflies and other insects. |
| <i>Hibbertia scandens</i> | Climbing Guinea Flower | Native | frontline / secondline coastal | Good Creeping and twining plant | 0.3 x 3m | Possible Yes | Yes | Yes | Yes | No | Yes | Groundcover under trees/climber. Ideal for trailing down rockeries. Large attractive bright yellow flowers on dark green decorative foliage. Low maintenance. Can be clipped to a low hedge. Great for erosion control. Can grow in sun or shade. Highly salt tolerant. Attracts bees, butterflies and lizards. |
| <i>Pandorea pandarana</i> | Wonga Wonga Vine | Native | possible secondline coastal | Woody climbing vine | Height 2-20 m; width 1-9 m | No | No | Yes | Yes | No | Yes | Flowers from winter to summer, has massive pendulous flowers with variable colour from pure white with purple-maroon veining through to yellow. A good butterfly food plant. |
| <i>Sarcocaulum harveanum</i> | Pearl Vine | Native | possible secondline coastal | Slender vine | No Data | No | No | Yes | Yes | No | Yes | Grows in well developed lowland and upland rain forest. Red and yellow flowers occur on racemes in summer. Flowers are tiny. Fruit is red and resembles miniature grapes. It is food for larvae of two types of moth. |
| <i>Stephania japonica</i> var. <i>discolor</i> | Stephania, Snake Vine | Native | possible secondline coastal | Slender vine, a twining climber | No Data | No | No | Yes | Yes | No | Yes | Flowers mostly in summer. Drooping habit. Grows in or near all types of warmer rainforest, sometimes in open forest or in coastal dune communities. Leaf underside is very light. |

Waverley Council Plants Species List Planting

Turf

| Species | Common Name | Indigenous / Native / Exotic | Coastal Exposure | Form | Size (H x W) | Notes on Form / Maintenance / Performance |
|--------------------------------|-----------------------------------|------------------------------|---|--------------------------|-----------------------|--|
| <i>Syntherisma tenax</i> | Buffalo | Exotic | Good Salt Tolerance | Coarse leaf type | | Good shade tolerance. High traffic tolerance. Medium aggressive. Low invasive properties. |
| <i>Cynodon dactylon</i> | Couch | Exotic | Good salt tolerance | Fine leaf type | | Does well in full sun. Poor shade tolerance. High traffic tolerance. Highly aggressive. Average mowing required. |
| <i>Sporobolus virginicus</i> | Seashore dropseed or marine couch | Native | High salt tolerance | coarse broad leaf | creeping to 50cm tall | Good for grazing. High tolerance to salinity and waterlogging. Useful for stabilising sea-shores. |
| <i>Zoysia macrantha</i> | Nara grass | Native | High salt tolerance, thrives near coastal areas | Soft. Finer than buffalo | Mowing height 25-50mm | Excellent winter colour and can out-compete weeds when established. Great all-purpose turf. Low maintenance and highly drought tolerant. Moderate shade tolerance. |
| <i>Pennisetum clandestinum</i> | Kikuyu | Exotic | Good Salt Tolerance | Coarse leaf type | | Inexpensive to purchase, quick to propagate, requires minimal care. Remains healthy and grows and repairs quickly. Good for community areas and schools. Needs more lawn mowing than some other types. High invasive properties. Good Shade tolerance. |

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