



# WOODBURN RIVERSIDE STREETScape DESIGN

## PLANTING AND MATERIAL PALETTES

Reference; Landscape Plans  
Preliminary Design-Issued 15/12/2023

For; Richmond Valley Council





## EXISTING SITE CONDITIONS

- Woodburn retail precinct has expansive views to Richmond River and Riverside Park
- The pavements are a patchwork of concrete finishes.
- The pedestrian walkway is narrow with limited opportunity for seating.
- Awnings to shopfronts provide limited shade and weather protection.
- Overhead power lines limit opportunities for Street Trees
- Traffic Islands are concrete.



Viewshed south from Duke Street T section



## PROPOSED DESIGN TREATMENTS

River Street, from Cedar to Duke Streets will become a 40km low speed pedestrian area. The pavement will be widened to establish an alfresco dining precinct with

- Street Trees and Palms providing shade and cooling for pedestrians.
- Landscaped borders separating traffic from seating areas and pedestrian pavements.
- On street dining zones where market umbrellas, tables and chairs can be set-out.
- Overhead Power lines to be moved underground.

Landscaping will be made resilient by allowing for passive irrigation and employing water sensitive urban design principles where practical, supported by an irrigation system.

The materials proposed for seating, walling and general street furnishings will be consistent with Stage 1 of the Woodburn Masterplan (Riverside Park).



Existing pedestrian pavement conditions-corner of Duke Street to Seafood Takeaway



Existing pavement conditions-crossover at Motel



Existing pavement conditions-decommissioned crossover at Bottleshop



View south from Bottleshop to existing crossing



Viewshed to Crossing and Riverside Park from Hotel





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Existing pavements and landscape treatments at pedestrian crossing

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River Street, and Cedar and Court Streets intersection



Views from Riverside Park to existing retail strip

View south from Bottleshop to existing crossing



Views from Riverside Park to Richmond River



# STREET TREES-PLANTING PALETTE

## PRINCIPLES

- Tree planting in the road reserves will maximise soil volumes.
- Falls from pervious surfaces are directed towards trees to allow for passive watering.
- Consideration is given for a kerb inlet delivering water to the roots of the tree. This encourages root growth at source and minimises root travel towards non-permeable pavements and built form.
- Tree pits within paved areas are designed to maximise soil volumes and pavement area.
- A diversity of tree species are proposed to increase biodiversity and resilience.

### Trees for pits in pavements

- *Atractocarpus fitzalanii*-Brown Gardenia
- *Cupaniopsis anacardioides*-Tuckeroo
- *Tristaniopsis laurina*- Water Gum
- 

### Trees and Palms in beds incorporating WSUD principles

- *Tristaniopsis laurina*- Water Gum
- *Banksia integrifolia*-Coast Banksia
- *Hibiscus tiliaceus rubra*-Red Cotton Tree
- *Livistona australis*-Cabbage Palm

### Trees in Traffic Islands

- *Hibiscus tiliaceus rubra*-Red Cotton Tree
- *Tristaniopsis laurina*- Water Gum / Kanooka
- *Banksia integrifolia*-Coast Banksia
- *Waterhousea floribunda*-Weeping Lily Pilly
- *Archontophoenix cunninghamiana*-Bangalow Palm

### Trees in verge between Kerb and footpath -No Ovehead Power

- *Flindersia australis*-Australian Teak
- *Flindersia bennettiana*-Bennetts Ash
- *Harpullia pendula*-Tulipwood

### Trees in verge between Kerb and footpath -Ovehead Power

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- *Hibiscus tiliaceus rubra*-Red Cotton Tree

### Heritage Planting

- *Phoenix dactylifera*-Date Palm



*Tristaniopsis laurina*- Water Gum / Kanooka



*Atractocarpus fitzalanii*-Brown Gardenia / Yellow Mangosteen



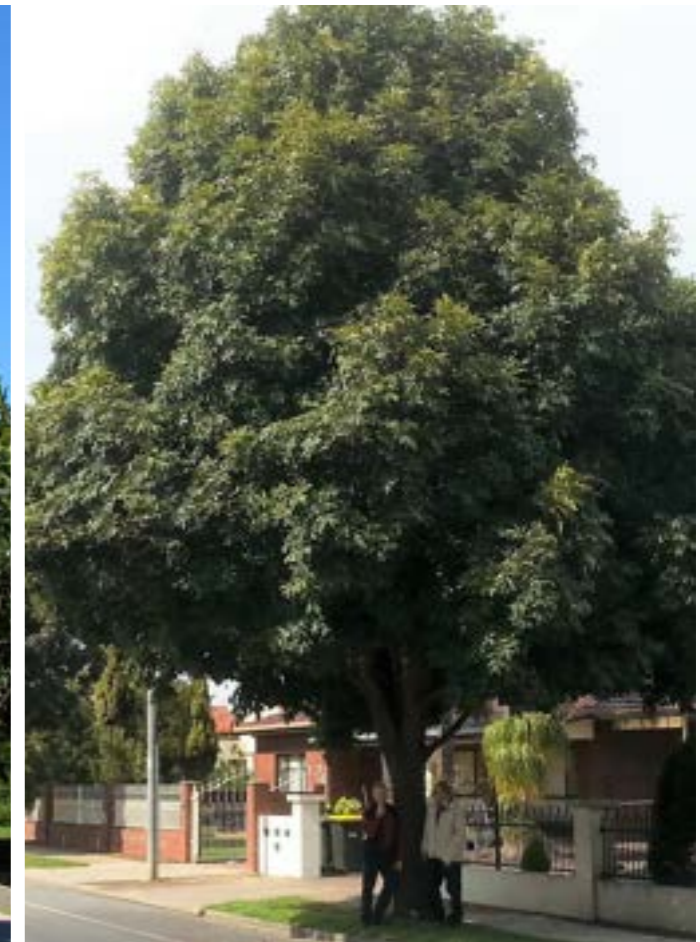
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*Flindersia australis*



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Livistona australis-Cabbage Palm



Archontophoenix cunninghamiana-Bangalow Palm



## STREETSCAPE LANDSCAPE PLANTING

### PRINCIPLES

- Species which are resilient to exposed aspects, inundation and periods of low rainfall are proposed.
- Species selected, are predominately low in habit ground-covers accented by open form shrubs and large lillies.
- Banksia robur-Swamp Banksia and Xanthorrhoea johnsonii-Grass Tree are proposed to provide architectural accent.

Consideration has been given to the planting palette to provide planting combinations that interpret natural systems of the local coastal and riverine landscapes.

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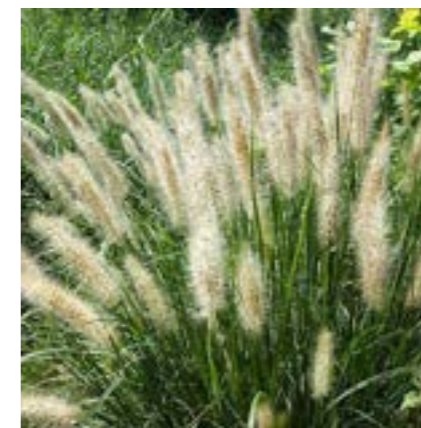
*Pennisetum alopecuroides*-Purple Lea



*Carex testacea* Frosted Curls



*Carex testacea*, Orange Sedge.



*Pennisetum alopecuroides*-Nafray



*Carex oshimensis*-Evergold



*Hibertia scandens*-Guinea Flower



*Dieties Bicolor*-Peacock Flower



*Carpobrotus glaucescens*-Pigs Face



*Ficinia nodosa*-Club Rush



*Crinum pedunculatum*-Swamp Lily



*Lomandra fluviliatus*-Shara



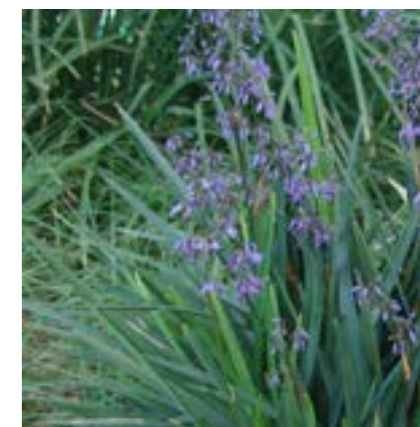
*Lomandra hystrix*-Lucky Stripe



*Lomandra confertifolia* Little Con



*Lomandra hystrix* Tropic Belle



*Dianella caerulea* Blue Flax Lily



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Austromyrtus dulcis-Midyim Berry



Banksia robur-Swamp Banksia



Callistemon citrinus-White Anzac



Isotoma fluviatilis-Swamp isotome



Westringea fruticosa-Smokey



ROS off, Rosmarinus officinalis-Rosemary



Melaleuca linarifolia-Claret Tops



Hoya australis-Common Wax Flower



Hardenbergia violacea-Flat White



Gazania tomentosa-Treasure Flower



Xanthorrhoea johnsonii-Grass Tree



Banksia spinulosa-Coastal Cushion



Banksia oblongifolia-Fern Leaf Banksia



Myoporum parvifolium-Creeping Boobialla



Trachelospermum asiaticum-Flat Mat



## STREETSCAPE MATERIALITY

### SANDSTONE WALLING

is proposed within the dining precinct.

Sandstone cladding to core filled concrete block work is proposed to provide a crash resistant barrier to dining areas.

### SANDSTONE SEATING

is proposed for pedestrian pavements between Cedar and Duke Streets.

Sandstone blocks are proposed both as feature curved benches and blocks finished with timber cladding.

### EXPOSED AGGREGATE

is proposed for pedestrian pavements between Cedar and Duke Streets.

Exposed aggregate concrete allows for a non slip textural finish that highlights the colours and shape of the aggregate.

A range of aggregates can be added to expose areas for pavement art works and signage.

### BOLLARDS

Where separation is required and landscaped gardens and walling is not proposed bollards are to be installed.



Sandstone walling to match existing at Riverside Park



Curved sandstone plinth walling



Wooden slat bench seating to stone walling



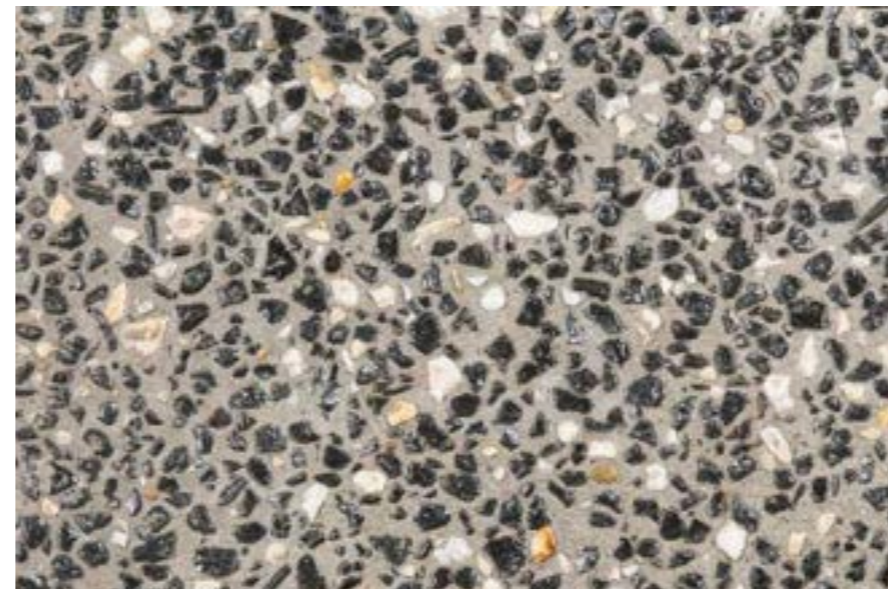
Exposed aggregate-jointing



Bollards



Exposed aggregate-Pavement Art



Exposed aggregate-Salt Pepper-By Boral



Exposed aggregate-Pearl by Boral.



## SHADING AND WATER SENSITIVE URBAN DESIGN

Streetscapes with expanses of asphalt and concrete increase urban heating.

We can address and provide cooler spaces for pedestrians and diners by providing green and blue infrastructure, maximising shade areas and incorporating sustainable water-sensitive design practices into the design.

- This has the affect of
- Lowering temperatures.
  - Increasing resiliency and biodiversity.
  - Creating inviting and safe pedestrian and outdoor dining spaces.



Landscape buffer between traffic lane and footpath



Street tree in grated tree pit



Passivley watered gardens-kerb inlets



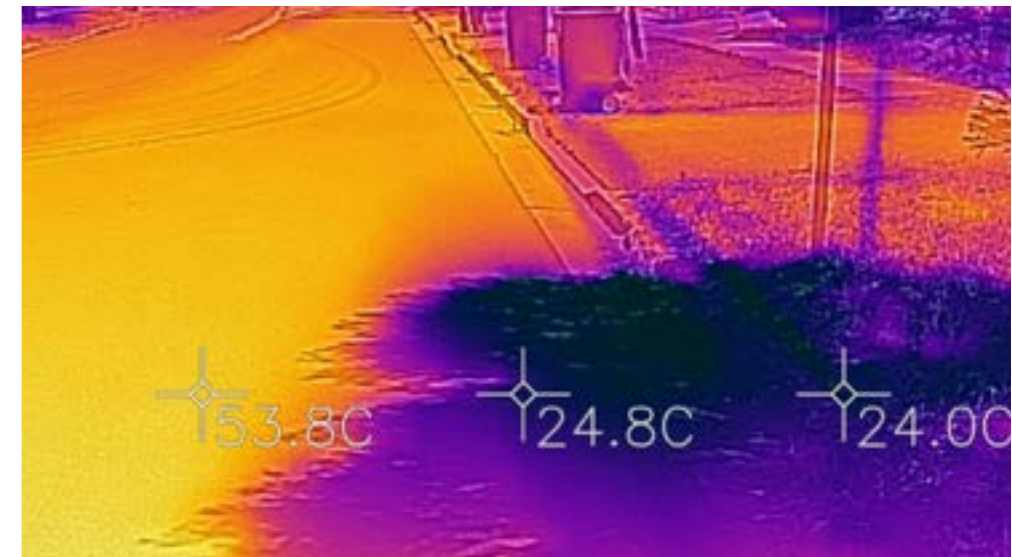
Passivley watered gardens-Kerb inlets



Cooling effect of trees and shade structures



Tree Shade patterning



Cooling effect of shade trees on surfaces



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Cover Image-Woodburn Plan View and panorama south from Duke Street