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CENTRES STRATEGIES

KEY POINTS OF THIS CHAPTER

- City of Parramatta Centres Hierarchy Map
- neighbourhood local centres
- Strategy maps and materials palettes for paving, street tree, overhead power line, furniture lighting, pole and banner for CBD and town centres

This section defines Parramatta's main centres and provides guidance about public domain finishes, fixtures and fittings required for each centre. This will assist developers to understand the City's requirements for public domain works triggered by development proposals. Centres are identified and located in the Centres Hierarchy Map in Figure 4.1. The hierarchy of centres has been determined on analysis of demography, proximity to public transport modes, land use type, and a review of state government objectives.

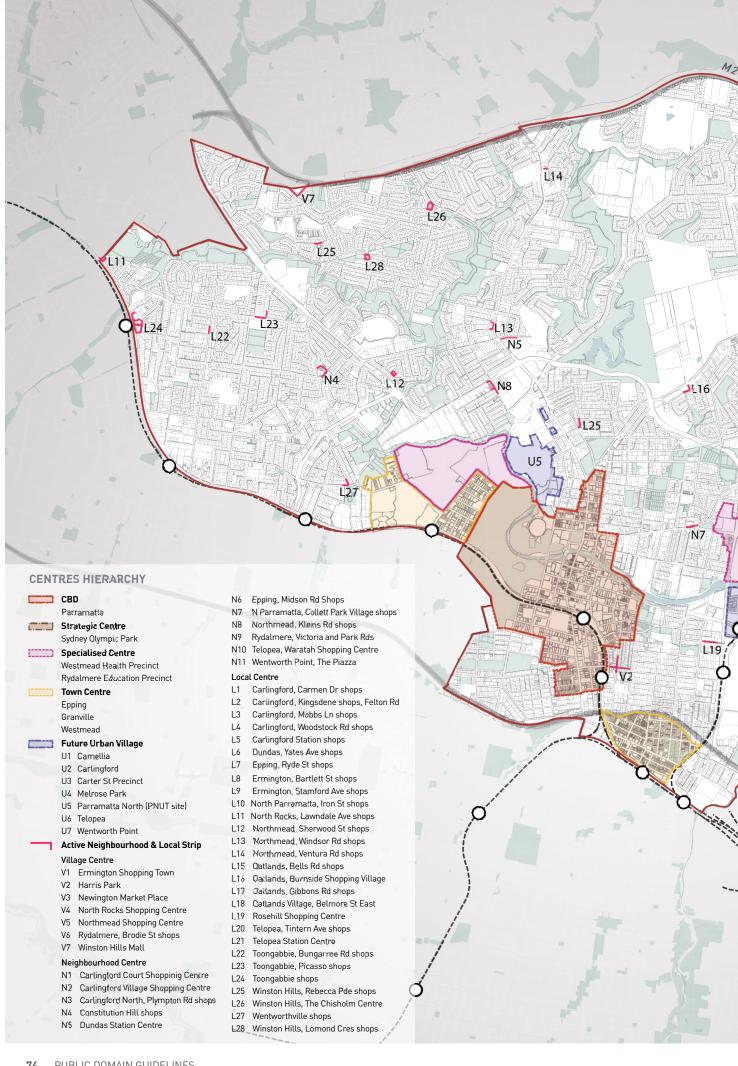
The hierarchy of centres includes the following:

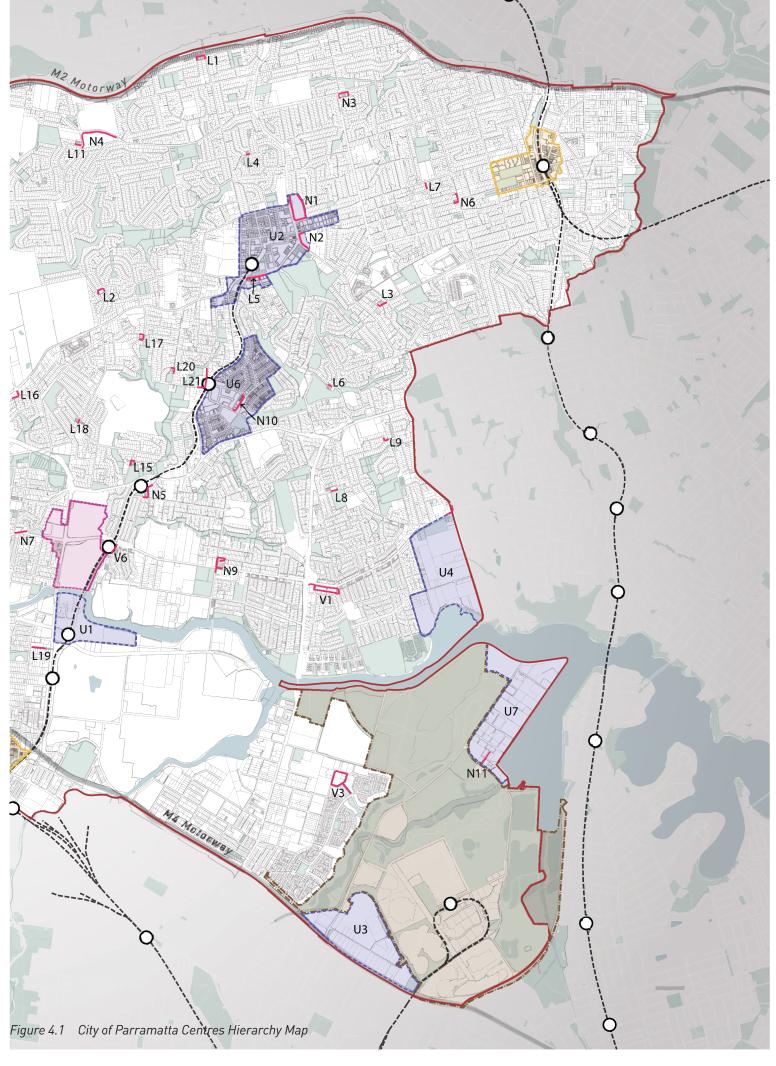
- CBD
- Strategic Centre
- Specialised Centre
- Town Centre
- Future Urban Village
- Active Neighbourhood and Local Centres

Defining and spatially mapping City of Parramatta's centres assists in determining appropriate public domain treatments. This section also addresses public domain requirements for local streets.

Centre strategy maps and material palettes articulating the required public domain finishes, fixtures and fittings for each centre are provided.

Key element strategies observed in the preparation of the centre strategies and material palettes are identified in Chapter 5.







PARRAMATTA CBD



4.1 PARRAMATTA CBD

The NSW Government's MEtropolitan Strategy - 'A Plan for Growing Sydney' identifies Parramatta as a dual CBD with the same status as the City of Sydney.

The CBD is the main business and commercial centre for the Parramatta LGA. It services the highest levels of pedestrian use in a hub of commercial, retail, mixed use and business development. A high quality, durable palette of streetscape materials distinguishes the central city core and responds to the rich cultural mix of heritage buildings and new development, day and night time trading, culture and the arts.

Strategies and Materials Palettes

The City has nominated materials and finishes requirements for all public domain components in the CBD including:

- paving
- street trees
- overhead power
- street furniture
- lighting levels
- light poles
- banners

Proposed strategy maps and materials palettes for the CBD are as follows:

Section	Figure No.	Title	Page
4.1.1 Paving	Figure 4.2	CBD - Paving Strategy	80
	Figure 4.3	CBD - Paving Materials Palette	81
4.1.2 Street Trees	Figure 4.4	CBD - Street Tree Strategy	84
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4.1.3 Overhead Power	Figure 4.7	CBD - Undergrounding Overhead Wire Strategy	87
4.1.4 Street Furniture	Figure 4.8	CBD - Furniture Strategy	88
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4.1.6 Pole	Figure 4.12	CBD - Street Light Pole Strategy	92
	Figure 4.13	CBD - Park, Plaza & Lane Light Pole Strategy	93
4.1.7 Banner	Figure 4.14	CBD - Banner Strategy	94

Figure 4.2 CBD - Paving Strategy

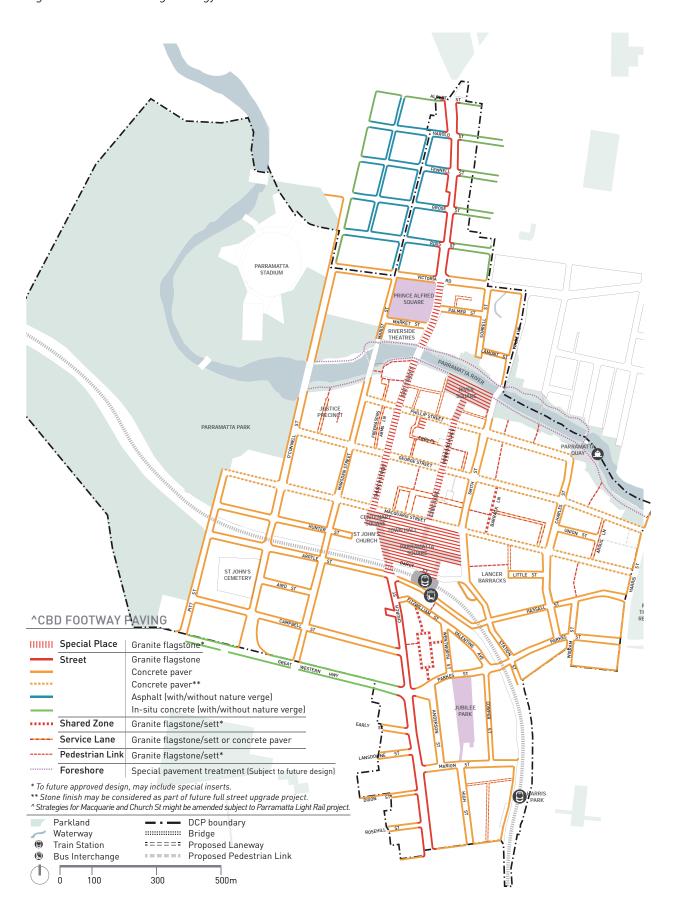


Figure 4.3 CBD - Paving Materials Palette

Use

Street **Footway** Granite

Main body - uniform dark grey granite flagstones in a variety of sizes and finishes.

Vehicle crossing, kerb ramp granite flagstones to match the footpath treatment. Use smaller stone sizes on vehicle crossings as required to suit vehiclar load.

Material



Main body Product: "Adelaide Black (Veined)" or "Austral Black" Size: 600x300x50, 400x300x50mm Finish: exfoliated



Vehicle crossing Product: "Adelaide Black (Veined)" or "Austral Black" Size: 400x300x50, 200x300x50mm Finish: exfoliated



Kerb ramp Product: "Adelaide Black (Veined)" or "Austral Black" Size: 400x300x50, 200x300x50, 600x300x50mm Finish: exfoliated

Concrete Paver

Main body - continued use of concrete pavers for consistency of appearance, high quality finish and durability.

Vehicle crossing, kerb ramp concrete pavers to match the footpath treatment. Use smaller unit sizes on vehicle crossing.



Main body Supplier: Pebblecrete Product: PPX:544:35D Size: 300x300x60mm Finish: honed



Vehicle crossing Supplier: Pebblecrete Product: PPX:544:35D Size: 150x150x60mm Finish: honed



Kerb ramp Supplier: Pebblecrete Product: PPX:544:35D Size: 300x300x60mm Finish: shotblast

Asphalt

Main body - asphalt footpath in key heritage conservation areas. Subject to location and site conditions, full width pavement may be required.

Vehicle Crossing, Kerb Ramp - in-situ concrete to suit grades and vehicle load.



Main body Material: asphalt concrete of AC10 and AC5 (wearing course) Colour: natural



Vehicle crossing Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Kerb ramp Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

In-situ Concrete

Main body - in-situ concrete for high durability and easy maintenance. Subject to location and site conditions, full width pavement may be required.

Vehicle crossing, kerb ramp - insitu concrete to suit grades and vehicle load.



Main body Material: in-situ concrete Colour: natural grey (no oxide colourl Finish: broom finish



Vehicle crossing Material in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Kerb ramp Material: in-situ concrete Colour: natural grey (no oxide colourl Finish: broom finish

Figure 4.3 CBD - Paving Materials Palette

Use

Shared Zone

.

Standard - granite setts to the full width of the shared zone subject to RMS & Council approval.

Special applications - designs can consider different paving materials subject to special design and RMS & Council approval.

Material



Standard
Product: "Adelaide Black
(Veined]" or "Austral
Black"
Size: 90x90x50mm
Finish: natural split/
exfoliated



Special application
Mixed paving
materials subject to
individual design and
RMS&Council approval

Pedestrian Lane

Standard - small granite flagstones or setts.

Special Applications - designs can consider different paving materials subject to special design and Council approval.



Standard Material: granite Product: "Adelaide Black (Veined)" or "Austral Black" Size: 200x100x50mm

Finish: exfoliated



Standard
Material: granite
Product: "Adelaide Black
(Veined)" or "Austral
Black"
Size: 90x90x50mm
Finish: varied



Special application Special inlays subject to site-specific design and Council approval

Service Lane

Carriageway - asphalt.

Footpath - small concrete pavers, grey granite flagstones or setts, or asphalt to approved design.



Footpath Material: granite Product: "Adelaide Black (Veined]" or "Austral Black" Size: 90x90x50mm Finish: varied



Footpath Material: granite Product: "Adelaide Black (Veined)" or "Austral Black" Size: 200x100x50mm Finish: exfoliated



Footpath Material: concrete paver Supplier: Pebblecrete Product: PPX:628:120.D Size: 150x150x60mm Finish: honed

Kerb & Gutter

Standard - standard concrete barrier kerb and gutter.

Heritage Kerbs - subject to heritage advice.

Special applications - granite kerbs to the streets surrounding Parramatta Square to City's approval.



Kerb *Material: concrete*



Kerb & gutter Material: concrete

Figure 4.3 CBD - Paving Materials Palette

Use

TGSI's

Type 316 Standard Stainless Steel Discrete Tactile Ground Surface Indicators (TGSI) and Directional Indicators to be manufactured and installed to AS1428: Design for Access and Mobility.

Minimum slip resistence of R12.

Material



Warning tactile



Directional tactile

Service Pit Lids

Continuous use of paving units to match adjoining area treatment.



Granite infill Match granite flagstone used in surrounds



Concrete paver infill Match concrete paver used in surrounds

Traffic **Devices**

Ensure sufficient visual contrast between the road and edge of the traffic devices, and use comparable materials for the infills to the surrounding footway finishes.



Porphyry setts infill



Granite setts infill Product: "Adelaide Black"

Figure 4.4 CBD - Street Tree Strategy

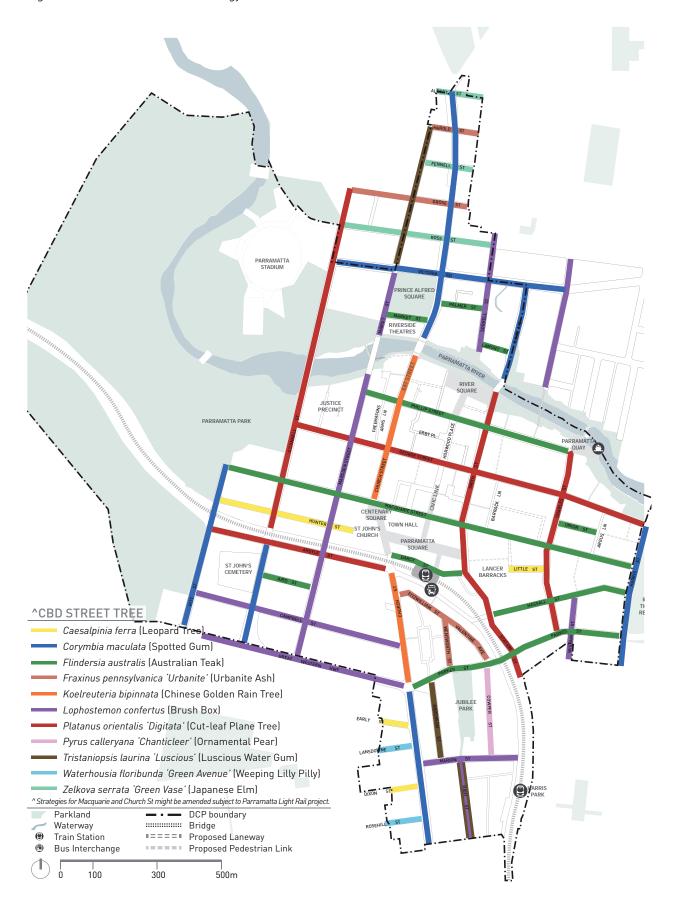


Figure 4.5 CBD - Street Tree Material Palette

Church Street





Corymbia maculata Koelreuteria bipinnata

Heritage Cultural **Precinct**







Fraxinus pennsylvanica 'Urbanite'

Zelkova serra 'Green Vase'

River Foreshore

Refer to future Foreshore Master Plan

Commercial/ **Retail Core**











Auto Alley



 $Lophostemon\ confertus$



Caesalpinia ferra



Tristaniopsis laurina 'Luscious'



Waterhousia floribunda 'Green Avenue'

Figure 4.6 CBD - Tree Surround Finishes Strategy



Figure 4.7 CBD - Undergrounding Overhead Wire Strategy



Figure 4.8 CBD - Furniture Strategy

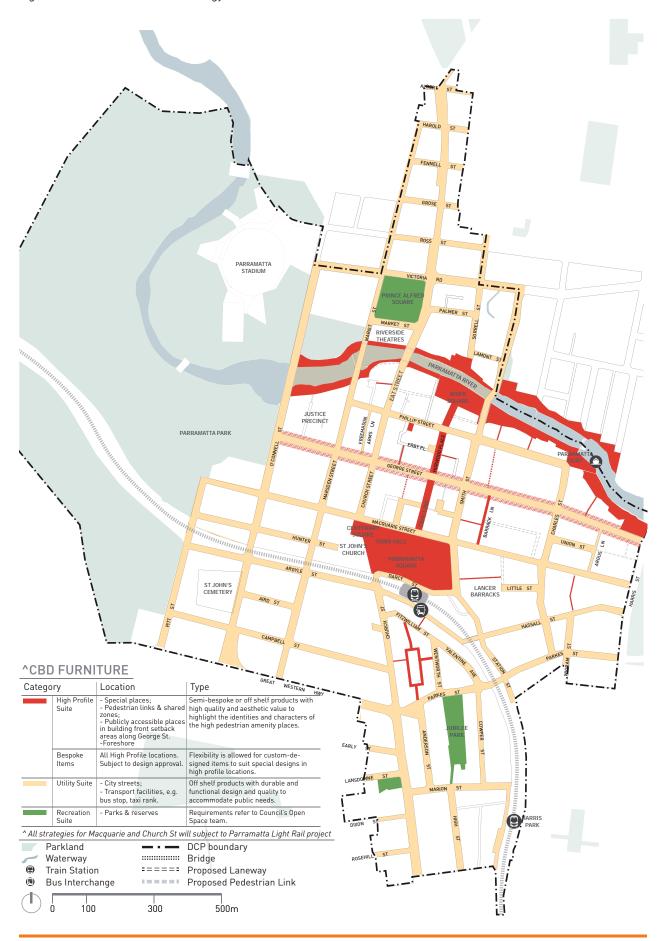


Figure 4.9 CBD - Furniture Materials Palette

High Profile

Utility

High Profile

Utility

Seat



Material: mild steel frame and hardwood slats Finish: powdercoated and oiled PCC Currently Used Model: HUB S3 Modified*



Material: cast aluminium frame and panel and seat Finish: powdercoated Colour: Dulux Precious® Silver Pearl PCC Currently Used Model: SFA Concourse 3 Seater*

Material: stainless steel or

aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements

Bin & Cigarette Butt Bin (stand alone)



Material: mild steel frame, Rimex metal panels and stainless steel chute Capacity: 120L Lock assembly: PCC key-alike system PCC Currently Used Model:



Bin Material: mild steel frame,
gal panels and stainless steel
chute
Finish: powdercoated
Colour: black
Capacity: 120L
Lock assembly: PCC key-alike
system
Cigarette Butt Bin Material: mild steel and

N/A

stainless steel cover

Pedestrian Fence

Bollard

N/A



RMS Pedestrian Barrier Type 1 (refer to www.RMS.nsw.gov.au)

HUB S2 Modified*

Bus Shelter



Supplier: Adshel



Supplier: Adshel

Drinking Fountain



Material: stainless steel Extras: water filter unit, bottle filler, sub-surface drain PCC Currently Used Model: Aqualfil Refill Station & Drink Fountain*

Tree Grate



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy

Bike Rack



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*

Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*

* Where models/brand names are nominated, they are indicated only. CoP wishes to maintain consistency in the public domain but does not wish to restrict or endorse any one brand.

Figure 4.10 CBD - Pedestrian Lighting Level Strategy

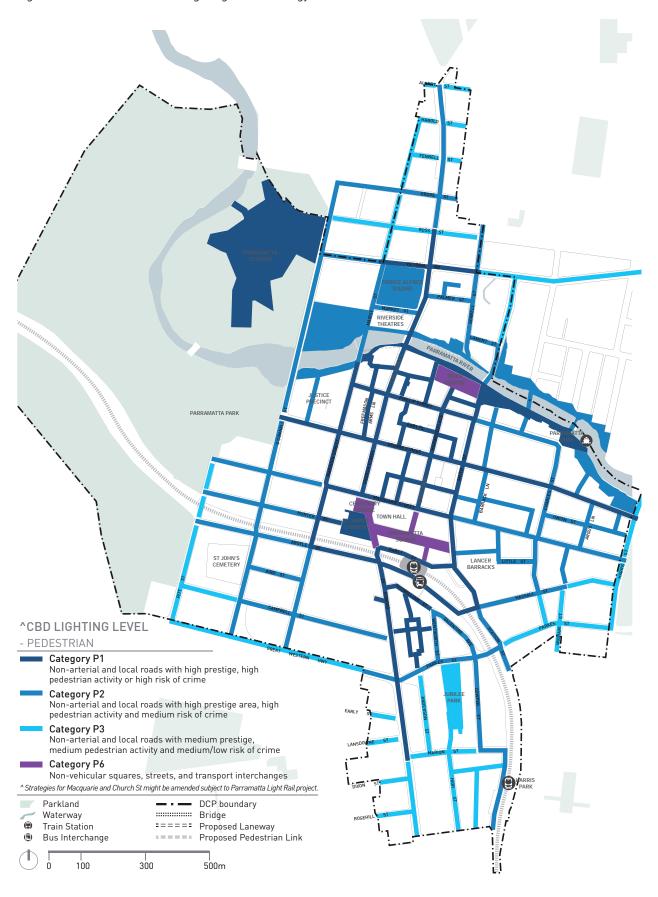


Figure 4.11 CBD - Vehicular Lighting Level Strategy



Figure 4.12 CBD - Street Light Pole Strategy



PARRAMATTA STADIUM MARKET RIVERSIDE THEATRES PARRAMATTA PARK ^CBD POLE - SPECIAL PLACES, LANEWAYS & PARKS Parks Large Multi Functional Pole (10m) × Medium Multi Functional Pole (8m) with CCTV, GPO, LEDs, Smart City × Tapered Pole (8m) with wall mount option, CCTV, GPO, LEDs, Smart City Park Pole (subject to site) with CCTV ^Strategies for Macquarie and Church St might be amended subject to Parramatta Light Rail project. Parkland DCP boundary Waterway :::::: Bridge Train Station ===== Proposed Laneway (1) Bus Interchange Proposed Pedestrian Link 100 300 500m

Figure 4.13 CBD - Park, Plaza & Lane Light Pole Strategy

Figure 4.14 CBD - Banner Strategy



Figure 4.15 CBD - Pole & Banner Materials Palette

Light Pole Multi **Functional Pole**





Large Multi Functional Pole (10m)

Medium Multi Functional Pole (8m)

Electrical **Authority Pole**



Steel Street Pole by Endeavour Energy

Banner



4500x1500mm Banner (double sided)



STRATEGIC CENTRE SPECIALISED CENTRE

4.2 STRATEGIC CENTRE

Sydney Olympic Park (SOP) is the only Strategic Centre located in City of Parramatta LGA. It is defined in the Metropolitan Strategy for Sydney to 2031 - 'A Plan for Growing Sydney' (the Plan) published in December 2014.

4.2.1 SYDNEY OLYMPIC PARK

In accordance with the Plan, SOP will be transformed into a healthy lifestyle education and innovation centre based on its sports heritage and creating a vital education, commercial and residential hub. The Sydney Olympic Park Authority is responsible for managing and developing the 640 hectares that comprise Sydney Olympic Park and maintaining it as a lasting legacy for the people of New South Wales.

A series of planning controls and guidelines are published in SOPA website:

http://www.sopa.nsw.gov.au/resource_centre/publications

and, a series of urban design and public domain controls and guidelines - the Sydney Olympic Park Urban Elements Design Manual in Cumberland Council website:

http://www.auburn.nsw.gov.au/Develop/PlanPolicies/Pages/DevelopmentControlPlans.aspx



4.3 SPECIALISED CENTRE

Westmead Health Precinct and Rydalmere Education Precinct are two Specialised Centres defined in the Plan.

4.3.1 WESTMEAD HEALTH PRECINCT

The Westmead Health Precinct is one of the largest health, education, research and training precincts in Australia and a key provider of jobs for the greater Parramatta and western Sydney region.

According to the Plan, the State Government will:

- expand and build on the existing strengths of the Westmead Health Precinct by improving public spaces and renewing the precinct.
- facilitate improved public transport, cycling and walking connections between Westmead and Rydalmere through the Parramatta CBD, investigate improved connections to Macquarie Park, and investigate options to enhance a Parramatta City Ring Road.

The Precinct is currently undergoing a major transformation, with more than \$3 billion committed by government, universities and the private sector to upgrade and expand the Precinct's health services, education and medical research facilities and undertake urban transformation over the coming years. A precinct-wide master planning has been initiated by the Western Sydney Local Health District. More information can be found in below link:

http://www.westmeadproject.health.nsw.gov.au/

4.3.2 RYDALMERE EDUCATION PRECINCT

The Rydalmere Education Precinct is located east of the Parramatta CBD and will be built upon the strong and growing sector based in Western Sydney University (WSU).

Apart from the public transport, cycling and walking connections, the Plan states that the State Government will:

- encourage higher education facilities to develop Rydalmere as Western Sydney's premier university precinct.
- grow knowledge jobs in Western Sydney and encourage innovation by investigation the potential for a new business park.



TOWN CENTRES

4.4 TOWN CENTRES

Three town centres are located at Epping, Granville and Westmead. These are the major commercial centres outside the CBD . They are characterised by a similar mix of commercial, retail and business developments centred around major railway stations and transport interchanges. They have a high level of pedestrian use and are a focus for local shopping, business and social interactions. They contain place making, community and landmark buildings, historic architecture, statues and public spaces.

As for the CBD the City has nominated materials and finishes requirements for all public domain components for the town centres including:

- paving
- street trees
- overhead wire
- street furniture
- lighting levels
- light poles
- banners

4.4.1 EPPING

Epping Town Centre is a compact and vibrant town centre area focussed around Epping Railway Station. The area is experiencing significant development uplift following adoption of the DCP 2011. Significantly improved public domain facilities are envisaged for Epping to address new development.

Proposed strategies and materials palettes for Epping are as follows:

Strategies	Figure No.	Title	Page
Paving	Figure 4.16	Epping Town Centre - Paving Strategy	105
	Figure 4.16	Epping Town Centre - Paving Palette	94
Street Tree	Figure 4.18	Epping Town Centre - Street Tree Strategy	108
	Figure 4.19	Epping Town Centre - Street Tree Materials Palette	109
Figure 4.20 Epping Town Centre - Stree 110		Epping Town Centre - Street Tree Surround Finishes Str	ategy
Overhead Power Line	Figure 4.21	Epping Town Centre - Overhead Power Strategy	111
Street Furniture	Figure 4.22	Epping Town Centre - Furniture Strategy	112
	Figure 4.23	Epping Town Centre - Furniture Palette	113
Lighting Level	Figure 4.24	Epping Town Centre - Pedestrian Lighting Level Strategy 114	
	Figure 4.25	Epping Town Centre - Vehicular Lighting Level Strategy	115
Pole	Figure 4.26	Epping Town Centre - Street Pole Strategy	116
	Figure 4.27	Epping Town Centre - Park, Plaza & Lane Pole Strategy	117

Banner	Figure 4.28	Epping Town Centre - Banner Strategy	118
	J		

4.4.2 GRANVILLE

Granville Town Centre will continue to be a vibrant centre focussed around Granville Railway Station. This area is also experiencing significant uplift following adoption of DCP 2011. New pedestrian connections and laneways and a significantly improved public domain setting is envisaged to address the expanded retail and mixed use development zones.

Proposed strategies and materials palettes for Granville Town Centre are as follows:

Strategies	Figure No.	Title	Page
Paving	Figure 4.29	Granville Town Centre - Paving Strategy	119
	Figure 4.30	Granville Town Centre - Paving Materials Palette	120
Street Tree	Figure 4.31	GranvilleTown Centre- Street Tree Strategy	122
	Figure 4.32	Granville Town Centre - Street Tree Materials Palette	123
	Figure 4.33 124	Granville Town Centre - Street Tree Surround Finishes Strategy	
Overhead Power Line	Figure 4.34	Granville Town Centre - Overhead Power Strategy	125
Street Furniture	Figure 4.35	Granville Town Centre - Furniture Strategy	126
	Figure 4.36	Granville Town Centre - Furniture Materials Palette	
Lighting Level	Figure 4.37	Granville Town Centre - Pedestrian Lighting Level Stra	tegy 128
	Figure 4.38	Granville Town Centre - Vehcilular Lighting Level Strategy 129	
Pole	Figure 4.39	GranvilleTown Centre- Street Pole Strategy	130
	Figure 4.40	Granville Town Centre - Park, Plaza & Lane Pole Strate	gy 131
Banner	Figure 4.41	Granville Town Centre - Banner Strategy	132

4.4.3 WESTMEAD

Westmead Town Centre is located to the west of the CBD, adjacent to the Specialised Centre - Westmead Health Districts, with access to Westmead Rail Station. The introduction of light rail along Hawkesbury Road, Hainsworth and Bridge Streets will have a significant impact on the function and vitality of this town centre. The implications of light rail in Westmead are subject to future light rail projet outcomes.

Significantly improved public domainoutcomes are envisaged to support these important changes and address the needs of existing residents in the area.

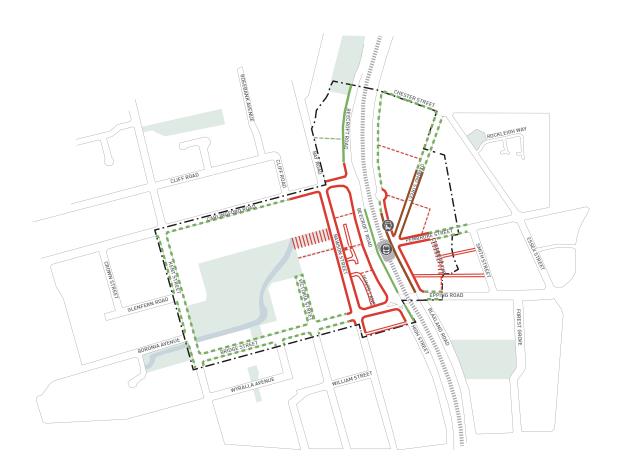
Proposed strategies and materials palettes for Westmead Town Centre are as follows:

Strategies	Figure No.	Title	Page
Paving	Figure 4.42	Westmead Town Centre - Paving Strategy	133
	Figure 4.43	Westmead Town Centre - Paving Materials Palette	134

CENTRE STRATEGIES TOWN CENTRES

Street Tree	Figure 4.44	Westmead Town Centre - Street Tree Strategy	136
	Figure 4.45	Westmead Town Centre - Street Tree Materials Palette	137
	Figure 4.46	Westmead Town Centre - Street Tree Surround Finishes Strate	gy 138
Overhead Power Line	Figure 4.47	Westmead Town Centre - Overhead Power Strategy	139
Street Furniture	Figure 4.48	Westmead Town Centre - Furniture Strategy	140
	Figure 4.49	Westmead Town Centre - Furniture Materials Palette	
Lighting Level Figure 4.5		Westmead Town Centre - Pedestrian Lighting Level Stra	tegy 142
	Figure 4.51	Westmead Town Centre - Vehicular Lighting Level Strategy 143	
Pole	Figure 4.52	Westmead Town Centre - Street Pole Strategy	144
	Figure 4.53	Westmead Town Centre - Park, Plaza & Lane Pole Strategy 145	
Banner	Figure 4.54	Westmead Town Centre - Banner Strategy	146

Figure 4.16 Epping Town Centre - Paving Strategy



EPPING TOWN CENTRE FOOTWAY PAVING

1111111111	Special Place	Granite flagstone*		
	Street	Granite flagstone		
		Existing paving finish to be reinstated		
In-situ concrete (full		In-situ concrete (full width)		
		In-situ concrete (1.5/1.8m wide)		
	Shared Zone	Granite flagstone/sett*		
	Service Lane	Granite flagstone/sett		
	Pedestrian Link	Granite flagstone/sett*		
* To future approved design, may include special inserts.				
Pa	Parkland — • DCP boundary			

^{::::::} Bridge Waterway Proposed Laneway
Proposed Pedestrian Link Train Station Bus Interchange ^ All the proposed links and lanes are subject to the final Epping Town Centre Master Plan and future DCP. 100 300 500m

Figure 4.17 Epping Town Centre - Paving Material Palette

Main body - range of grey granite flagstones in a variety of sizes, colours and finishes.

Granite

Street

Footway

Vehicle crossing, kerb ramp granite flagstones to match the footpath treatment. Use smaller stone sizes on vehicle crossings as required to suit vehicle load.

Material



Main body Product: "Sesame Grey" & "Adelaide Black (Veined)" or "Austral Black" Size: 600x300x50, 400x300x50mm Finish: exfoliated/bush hammered



Vehicle crossing Product: "Sesame Grey" & "Adelaide Black (Veined)" or "Austral Black" Size: 400x300x50, 200x300x50mm Finish: exfoliated



Kerb ramp
Product: "Sesame Grey" &
"Adelaide Black (Veined)" or
"Austral Black"
Size: 400x300x50, 200x300x50,
600x300x50mm
Finish: exfoliated

In-situ Concrete

(full width)

(with nature verge)

Main body - in-situ concrete in local streets and Beecroft Road for high duribility and easy maintenance. Full width pavement or footpath with nature (planting/ turf) verge may be required subject to location and site conditions.

Vehicle crossing, kerb ramp - insitu concrete to suit grades and vehiclar load.



Beecroft Rd (full width) Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Local streets (with nature verge) Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Vehicle crossing
Material: in-situ concrete
Colour: natural grey (no
oxide colour)
Finish: hmom finish



Kerb ramp Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

Shared Zone

Standard - granite setts to the full width of the shared zone subject to RMS & Council approval.

Special applications - designs can consider a mix of paving materials subject to special design and RMS & Council approval.



Standard Product: "Sesame Grey' Size: 90x90x50mm Finish: natural split/ exfoliated



Special application
Mixed paving materials
subject to site-specific
design and RMS&Council
approval

Pedestrian Link

Standard - small granite flagstones, or setts.

Special Applications - designs can consider a mix of paving materials subject to site-specific design and Council approval.



Standard Product: "Sesame Grey" Size: 200x100x50mm Finish: exfoliated



Standard Product: "Sesame Grey Size: 90x90x50mm Finish: exfoliated



Special Application Special inlays subject to individual design and Council approval

Material

Service Lane

Carriageway - asphalt

Footpath - small grey granite setts to match with surrounding streets.



Footpath Product: "Sesame Grey" Size: 90x90x50mm Finish: exfoliated

Kerb & Gutter

Standard -standard concrete barrier kerb and gutter.



Kerb & Gutter Material: concrete

TGSI's

Type 316 Standard Stainless Steel Discrete Tactile Ground Surface Indicators (TGSI) and Directional Indicators to be manufactured and installed to AS1428: Design for Access and Mobility.

Minimum slip resistence of R12.



Warning Tactile



Directional Tactile

Service Pit Lids

Continuous use of paving units to match the adjoining area treatment.



Granite Infill Match granite flagstone used in surrounds

Traffic Devices Ensure sufficient visual contrast between the road and edge of the traffic devices, and use comparable materials for the infills to the surrounding footway finishes.

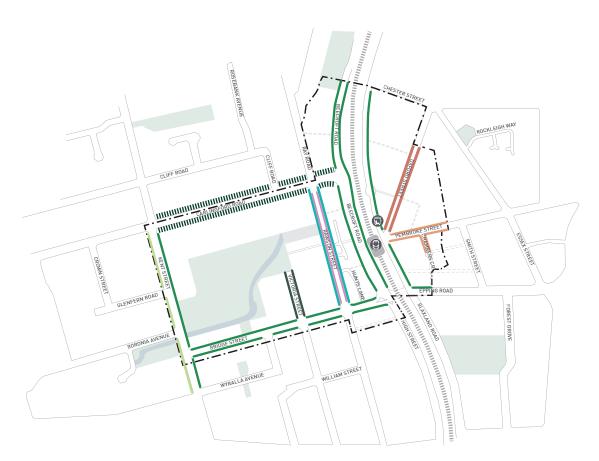


Porphyry setts infill



Granite setts infill Product: "Adelaide Black"

Figure 4.18 Epping Town Centre - Street Tree Strategy



EPPING TOWN CENTRE STREET TREE

- —— Bunckinghamia celsissima (Ivory Curl Flower)
- Fraxinus pennsylvanica 'Urbanite' (Urbanite Green Ash)
- Lophostemon confertus (Brush Box)
- Lagerstroemia indica 'Natchez' (Crepe Myrtle)
- Syncarpia glomulifera (Turpentine Tree)
 - Tristaniopsis laurina 'Lucious' (Lucious Water Gum)
- ---- Waterhousia floribunda 'Green Avenue' (Weeping Lilly Pilly)
 - Zelkova serrata 'Green Vase' (Japanese Elm)
- IIIIIIII Planting within Setbacks
 - Brachychiton acerifolius; Jacaranda mimosifolia

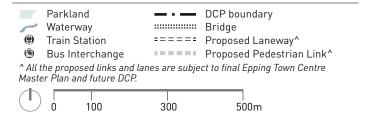


Figure 4.19 Epping Town Centre - Street Tree Materials Palette

Retail Streets









Waterhousia floribunda 'Green Av' Lagerstroemia indica 'Natchez'

Fraxinus pennsylvanica 'Urbanite'

Zelkova Serrata 'Green Vase

Residential Streets

(non wire)







Angophora floribunda

Residential Streets

(under wire)





Prunus cerasifera 'Nigra'

Bunckinghamia celsissima

Building Setbacks

(Carlingford Rd)

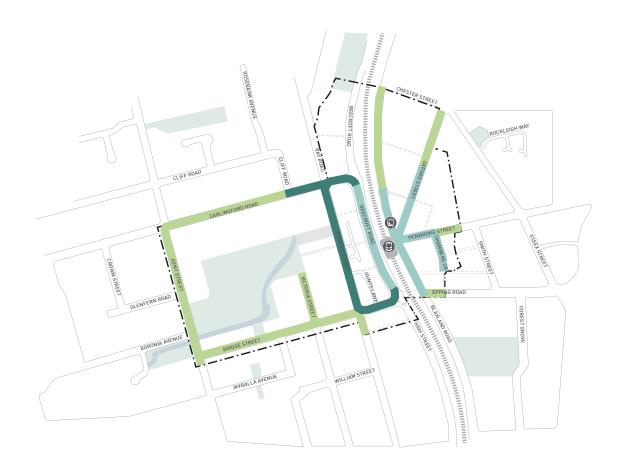




Jacaranda mimosifolia

 ${\it Brachychiton\,acer folius}$

Figure 4.20 Epping Town Centre - Street Tree Surround Finishes Strategy



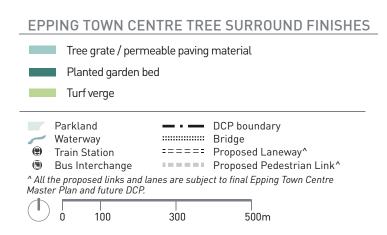
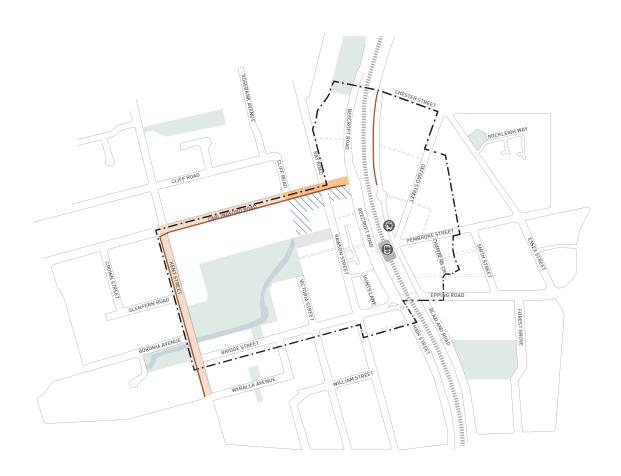


Figure 4.21 Epping Town Centre - Overhead Power Strategy



EPPING TOWN CENTRE OVERHEAD WIRE

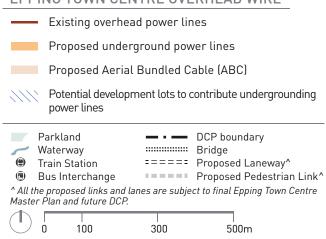
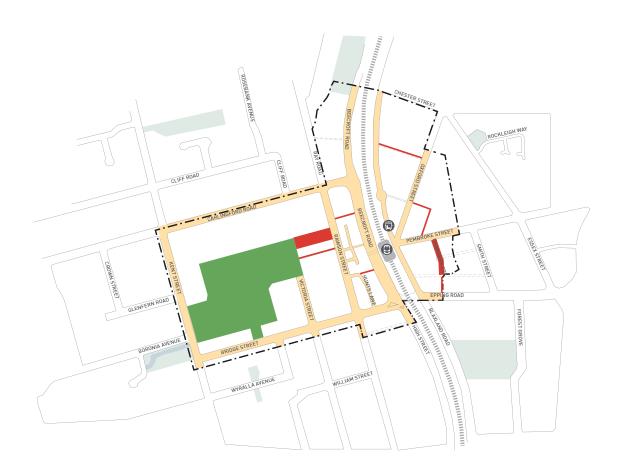


Figure 4.22 Epping Town Centre - Furniture Strategy



EPPING TOWN CENTRE FURNITURE

Category		Location	Туре
	High Profile Suite	- Special places	Semi-bespoke or off shelf products with high quality and aesthetic value to highlight the identities and characters of the high pedestrian amenity places.
	Bespoke Items	All High Profile locations. Subject to design approval.	Flexibility is allowed for custom-designed items to suit special designs in high profile locations.
	Utility Suite	- City streets; - Transport facilities, e.g. bus stop, taxi rank.	Off shelf products with durable and functional design and quality to accommodate public needs.
	Recreation Suite	- Parks & reserves	Requirements refer to Council's Open Space team.

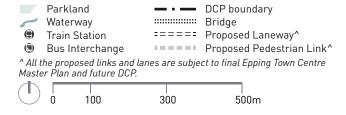


Figure 4.23 Epping Town Centre - Furniture Palette

High Profile

Utility

High Profile

Utility

Seat



Material: mild steel frame and hardwood slats Finish: powdercoated and oiled PCC Currently Used Model: HUB S3 Modified*



Material: cast aluminium frame and panel and seat Finish: powdercoated Colour: Dulux Precious® Silver Pearl PCC Currently Used Model: SFA Concourse 3 Seater*

Bollard



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic reauirements



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements

Bin & Cigarette **Butt Bin (stand** alone)



Material: mild steel frame, Rimex metal panels and stainless steel chute Capacity: 120L Lock assembly: PCC key-alike system PCC Currently Used Model: HUB S2 Modified*



Bin -Material: mild steel frame. gal panels and stainless steel chute Finish: powdercoated Colour: black Capacity: 120L Lock assembly: PCC key-alike Cigarette Butt Bin -Material: mild steel and

stainless steel cover

Pedestrian Fence

N/A



RMS Pedestrian Barrier Type 1 (refer to www.RMS.nsw.gov.au)

Drinking

Fountain



Material: stainless steel Extras: water filter unit, bottle filler, sub-surface drain PCC Currently Used Model: Aqualfil Refill Station & Drink Fountain*



Material: stainless steel and aluminium grate Extras: bottle filler, dog bowl, sub-surface drain PCC Currently Used Model: Botton + gardiner Prospect Drink Fountain*

Bus **Shelter**



Supplier: Adshel



Supplier: Adshel



Supplier: Adshel

Bike Rack



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*

Tree Grate



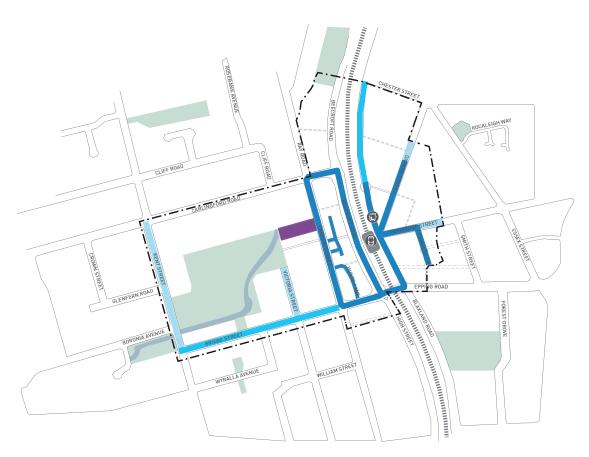
Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy

*Where models/brand names are nominated, they are indicated only. CoP wishes to maintain consistency in the public domain but does not wish to restrict or endorse any one brand.

Figure 4.24 Epping Town Centre - Pedestrian Lighting Level Strategy



EPPING TOWN CENTRE LIGHTING LEVEL

- PEDESTRIAN

Category P2

Non-arterial and local roads with high prestige area, high pedestrian activity and medium risk of crime

Category P3

Non-arterial and local roads with medium prestige, medium pedestrian activity and medium/low risk of crime

Category P4

Local or collector roads with low pedestrian/cycle activity and low risk of crime

Category P6

Non-vehicular squares, streets, and transport interchanges

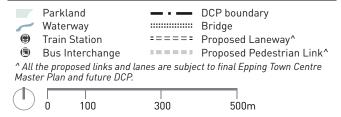
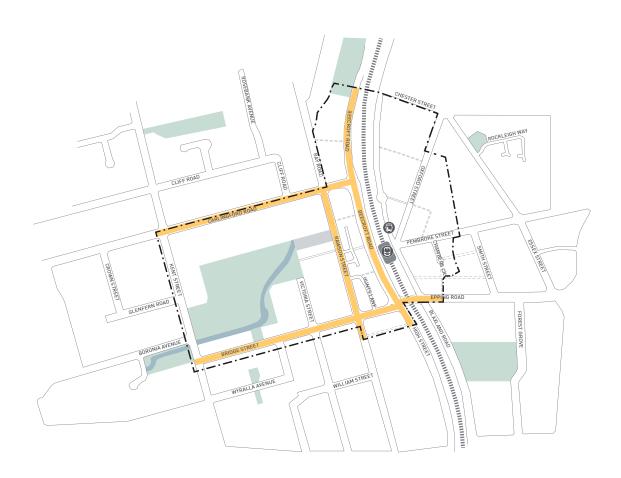


Figure 4.25 Epping Town Centre - Vehicular Lighting Level Strategy



EPPING TOWN CENTRE LIGHTING LEVEL

- VEHICLE Category V3 Arterial roads with mixed vehicle/pedestrian traffic, moderate/high vehicle volume; high pedestrian volume;

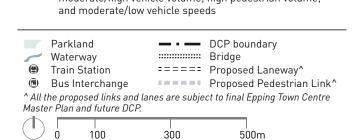
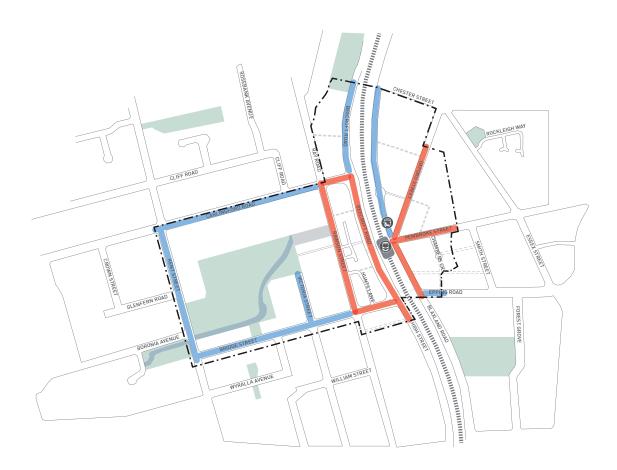
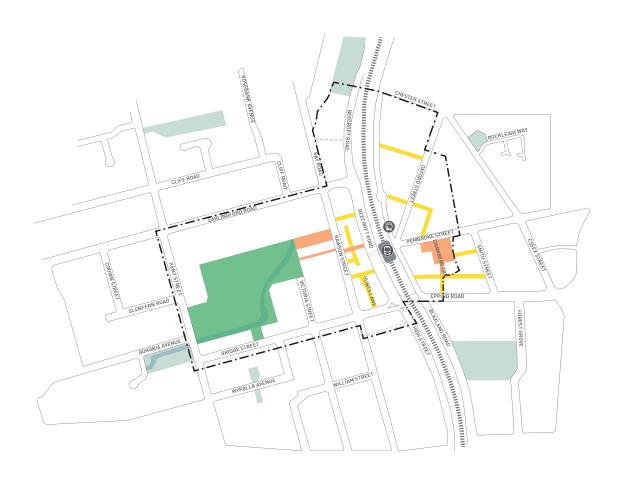


Figure 4.26 Epping Town Centre - Street Pole Strategy



EPPING TOWN CENTRE POLE - STREETS Large Multi Functional Pole (10m) with CCTV, 2xGPO, LEDs, Smart City **Electrical Authority Pole** with lamp upgrade DCP boundary Parkland :::::: Bridge Waterway Train Station ===== Proposed Laneway^ Proposed Pedestrian Link^ Bus Interchange ^ All the proposed links and lanes are subject to final Epping Town Centre Master Plan and future DCP. 100 300 500m

Figure 4.27 Epping Town Centre - Park, Plaza & Lane Pole Strategy



EPPING TOWN CENTRE POLE - SPECIAL PLACES, LANEWAYS & PARKS

	Special Place	Lanes	Parks
Large Multi Functional Pole (10m) with CCTV, 2xGPO, LEDs, Smart City	✓	×	×
Medium Multi Functional Pole (8m) with CCTV, GPO, LEDs, Smart City	✓	√	×
Tapered Pole (8m) with wall mount option, CCTV, GPO, LEDs, Smart City	√	V	√
Park Pole (subject to site) with CCTV	×	×	√

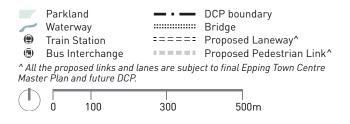
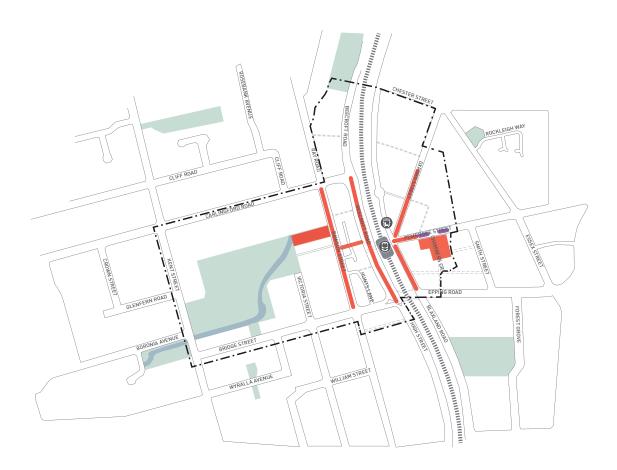


Figure 4.28 Epping Town Centre - Banner Strategy



EPPING TOWN CENTRE BANNER

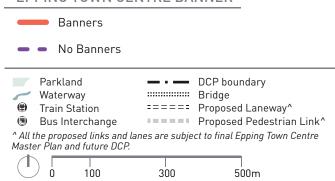


Figure 4.29 Granville Town Centre - Paving Strategy



11111111	Special Place	Granite flagstone*
	Street	Granite flagstone
		Secondary granite treatment
		Asphalt
		In-situ concrete (full width)
		In-situ concrete (1.5/1.8m wide)
	Service Lane	Granite flagstone/sett
		In-situ concrete
	Pedestrian Granite flagstone/sett*	
	Link	In-situ concrete

 $[\]ensuremath{^*}$ To future approved design, may include special inserts.

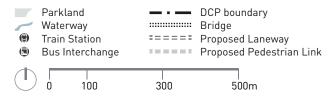


Figure 4.30 Granville Town Centre - Paving Materials Palette

Street

Main body - unified dark grey granite flagstones in a variety of

Granite

Footpath

Vehicle crossing, kerb ramp continued use of granite flagstones to match the footpath treatment. Use smaller stone sizes on vehicle crossings as required to suit vehicle load.

Material



Main body Product: "Adelaide Black (Veined)" or "Austral Black" Size: 600x300x50. 400x300x50mm Finish: exfoliated/bush hammered



Vehicle crossing Product: "Adelaide Black (Veined)" or "Austral Black" Size: 400x300x50, 200x300x50mm Finish: exfoliated



Kerb ramp Product: "Adelaide Black" Size: 400x300, 200x300 Thickness: 50mm Finish exfoliated

Treatment

Secondary Stone Main body - smaller granite flagstones or setts in kerbside strip and asphalt pavement in foot traffic areas.

> Vehicle crossing, kerb ramp continue use of small granite flagstones or setts to suit grades and vehicle load.



Kerbside strip Product: "Adelaide Black (Veined)" or "Austral Black" Size: 200x100x50mm Finish exfoliated



Foot traffic zone Material: asphalt concrete of AC10 and AC5 (wearing course) Colour: natural



Vehicle crossing & kerb ramp Product: "Adelaide Black (Veined)" or "Austral Black" Size:600x300x50mm Finish: exfoliated

Asphalt

Main body - asphalt footpath in low foot traffic areas. Subject to the location and site conditions, full width pavement may be required.

Vehicle crossing, kerb ramp - insitu concrete to suit grades and vehiclar load.



Railway corridor Material: asphalt concrete of AC10 and AC5 (wearing course) Colour: natural



Vehicle crossing Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Kerb ramp Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

In-situ Concrete

(full width)

(with nature verge)

Main Body - in-situ concrete in fringe streets and Parramatta Road for high durability and easy maintenance. Subject to the location and site condition, full width pavement may be required.

Vehicle crossing, kerb ramp - insitu concrete to suit grades and vehicle load.



Parramatta Rd (full width) Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Local streets (with nature Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Vehicle crossing Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Kerb ramp Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

Pedestrian Link

Granite

Standard - small granite flagstones or setts.

Special Applications - designs can consider different paving materials and sizes, subject to special design and Council approval.

Material



Standard Product: "Adelaide Black (Veined)" or "Austral Black" Size/Finish: varied



Standard Product: "Adelaide Black (Veined)" or "Austral Black" Size:90x90x50mm Finish: varied



Special Application Mixed paving materials subject to site-specific design and Council approval

Asphalt

Standard - asphalt in pedestrian links outside core area.



Railway corridor Material: asphalt concrete of AC10 and AC5 (wearing coursel Colour: natural

Service Lane

Carriageway - asphalt.

Footpath - use of in-situ concrete for high durability and easy maintenance. Granite or different materials can be used subject to Council's advice and approval.



Footpath Material: granite Product: "Adelaide Black (Veined)" or "Austral Black" Size: 200x100x50mm Finish: exfoliated



Footpath Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

Kerb & Gutter Standard - standard concrete barrier kerb and gutter.



Kerb & gutter Material: concrete

TGSI's

Type 316 Standard Stainless Steel Discrete Tactile Ground Surface Indicators (TGSI) and Directional Indicators to be manufactured and installed to AS1428: Design for Access and Mobility.

Minimum slip resistence of R12.



Warning tactile



Directional tactile

Service Pit Lids

Continuous use of paving units to infill service pits on footpath areas to match adjoining area treatment.



Granite infill Match the stone material used on footpath

Figure 4.31 GranvilleTown Centre- Street Tree Strategy



Figure 4.32 Granville Town Centre - Street Tree Materials Palette

Retail Streets



Residential Streets

(non wire)







Residential **Streets**

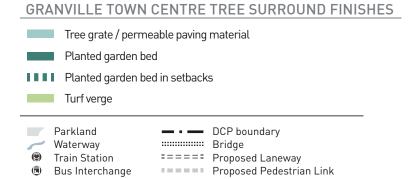
(under wire)





Figure 4.33 Granville Town Centre - Street Tree Surround Finishes Strategy





500m

300

100

Figure 4.34 Granville Town Centre - Overhead Power Strategy



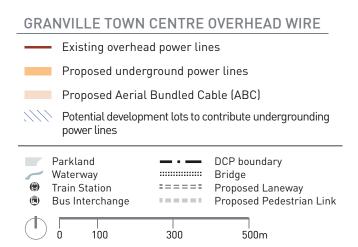


Figure 4.35 Granville Town Centre - Furniture Strategy



GRANVILLE TOWN CENTRE FURNITURE

Category		Location	Туре	
	High Profile Suite	- Special places	Semi-bespoke or off shelf products with high quality and aesthetic value to highlight the identities and characters of the high pedestrian amenity places.	
	Bespoke Items	All High Profile locations. Subject to design approval.	Flexibility is allowed for custom-designed items to suit special designs in high profile locations.	
	Utility Suite	- City streets; - Transport facilities, e.g. bus stop, taxi rank.	Off shelf products with durable and functional design and quality to accommodate public needs.	
	Recreation Suite	- Parks & reserves	Requirements refer to Council's Open Space team.	

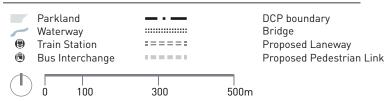


Figure 4.36 Granville Town Centre - Furniture Palette

High Profile

Utility

High Profile

Utility

Seat



Material: mild steel frame and hardwood slats Finish: powdercoated and oiled PCC Currently Used Model: HUB S3 Modified*



Material: cast aluminium frame and panel and seat Finish: powdercoated Colour: Dulux Precious® Silver Pearl PCC Currently Used Model: SFA Concourse 3 Seater*

Bollard



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements

N/A



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements

Bin & Cigarette **Butt Bin (stand** alone)



Material: mild steel frame, Rimex metal panels and stainless steel chute Capacity: 120L Lock assembly: PCC key-alike system PCC Currently Used Model: HUB S2 Modified*



Bin -Material mild steel frame gal panels and stainless steel Finish: powdercoated Colour: black Capacity: 120L Lock assembly: PCC key-alike Cigarette Butt Bin -Material: mild steel and stainless steel cover

Pedestrian Fence



RMS Pedestrian Barrier Type 1 (refer to www.RMS.nsw.gov.au)

Bus **Shelter**



Supplier: Adshel



Supplier: Adshel

Supplier: Adshel

Drinking Fountain



Material: stainless steel Extras: water filter unit, bottle filler, sub-surface drain PCC Currently Used Model: Aqualfil Refill Station & Drink Fountain*



Material: stainless steel and $\it aluminium\ grate$ Extras: bottle filler, dog bowl, sub-surface drain PCC Currently Used Model: Botton + gardiner Prospect Drink Fountain*

Tree Grate



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy

Bike Rack



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*

*Where models/brand names are nominated, they are indicated only. CoP wishes to maintain consistency in the public domain but does not wish to restrict or endorse any one brand.

Figure 4.37 Granville Town Centre - Pedestrian Lighting Level Strategy



GRANVILLE TOWN CENTRE LIGHTING LEVEL

- PEDESTRIAN

Category P2

Non-arterial and local roads with high prestige area, high pedestrian activity and medium risk of crime

Category P3

Non-arterial and local roads with medium prestige, medium pedestrian activity and medium/low risk of crime

Category P4

Local or collector roads with low pedestrian/cycle activity and low risk of crime

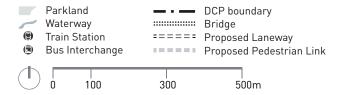


Figure 4.38 Granville Town Centre - Vehcilular Lighting Level Strategy



GRANVILLE TOWN CENTRE LIGHTING LEVEL

- VEHICLE

Category V1

Arterial roads with high/very high vehicle volume; high/very high pedestrian volume; and moderate/low vehicle speeds

Category V3

Arterial roads with mixed vehicle/pedestrian traffic, moderate/high vehicle volume; high pedestrian volume; and moderate/low vehicle speeds

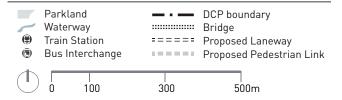


Figure 4.39 GranvilleTown Centre- Street Pole Strategy



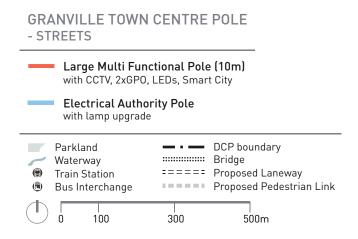


Figure 4.40 Granville Town Centre - Park, Plaza & Lane Pole Strategy



GRANVILLE TOWN CENTRE POLE - SPECIAL PLACES, LANEWAYS & PARKS

	Special Place	Lanes	Parks
Large Multi Functional Pole (10m) with CCTV, 2xGPO, LEDs, Smart City	√	×	×
Medium Multi Functional Pole (8m) with CCTV, GPO, LEDs, Smart City	✓	✓	×
Tapered Pole (8m) with wall mount option, CCTV, GPO, LEDs, Smart City	V	✓	✓
Park Pole (subject to site) with CCTV	×	×	√

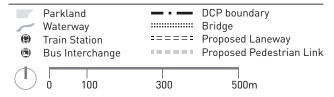


Figure 4.41 Granville Town Centre - Banner Strategy



GRANVILLE TOWN CENTRE BANNER

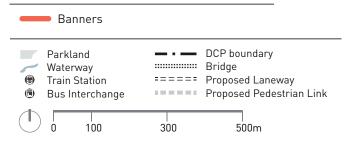
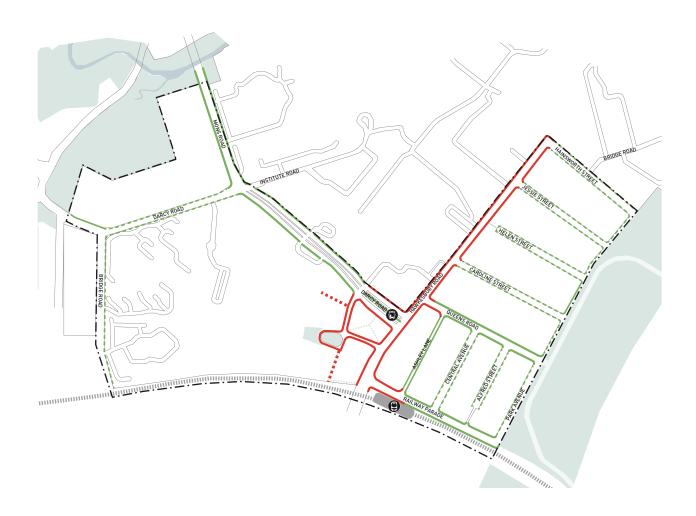


Figure 4.42 Westmead Town Centre - Paving Strategy



^WESTMEAD TOWN CENTRE FOOTWAY PAVING

	Street	Granite flagstone	
	In-situ concrete (full width)		
• • • • • •		In-situ concrete (1.5/1.8m wide)	
Shared Zone Granite flagstone/se		Granite flagstone/sett*	
	Service Lane	In-situ concrete	

 $^{^{\}wedge} \textit{Strategies for Hawkesbury Rd might be amended subject to Parramatta Light Rail project.}$

^{*} To future approved design, may include special inserts.

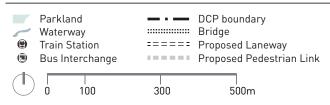


Figure 4.43 Westmead Town Centre - Paving Materials Palette

Material

Street

Footpath

Granite

Main body - range of grey granite flagstones in a variety of sizes, colours and finishes.

Vehicle crossing, kerb ramp granite flagstones to match the footpath treatment. Use smaller stone sizes on vehicle crossings as required to suit vehiclar load.

* Granite depth subject to engnieer's design



Main body Product: "Silver Black" & "Sesame Grey" Size: 600x300x50, 400x300x50mm Finish: exfoliated/bush hammered



Vehicle crossing Product: "Silver Black" & "Sesame Grey" Size: 400x300x50, 200x300x50mm Finish: exfoliated



Kerb ramp Product: "Silver Black" & 'Sesame Grey' Size: 400x300x50, 200x300x50. 600x300x50mm Finish: exfoliated

In-situ Concrete

(full width)

lfootpath with nature verge)

Main body - in-situ concrete in fringe streets and regional road for high durability and easy maintenance. Subject to location and site conditions full width pavement may be required.

Vehicle crossing, kerb ramp - insitu concrete to suit grades and vehicle load.



Main Body Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Vehicle Crossing Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish



Kerb Ramp Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

Shared Zone

Standard - granite setts to the full width of the shared zone subject to RMS & Council approval.

Special applications - designs can consider different paving materials subject to site-specific design and RMS & Council approval.



Standard Material: "Sesame Grey" Size: 90x90x50mm Finish: natural split/ exfoliated



Special Application Mixed paving materials subject to site-specific design and RMS&Council approval

Service Lane

Carriageway - asphalt

Footpath - use of in-situ concrete for high duribility and easy maintenance



Footpath Material: in-situ concrete Colour: natural grey (no oxide colour) Finish: broom finish

Kerb & Gutter

Standard - standard concrete barrier kerb and gutter.



Kerb & Gutter

TGSI's

Type 316 Standard Stainless Steel Discrete Tactile Ground Surface Indicators (TGSI) and Directional Indicators to be manufactured and installed to AS1428: Design for Access and Mobility.

Minimum slip resistence of R12.



Material



Directional Tactile

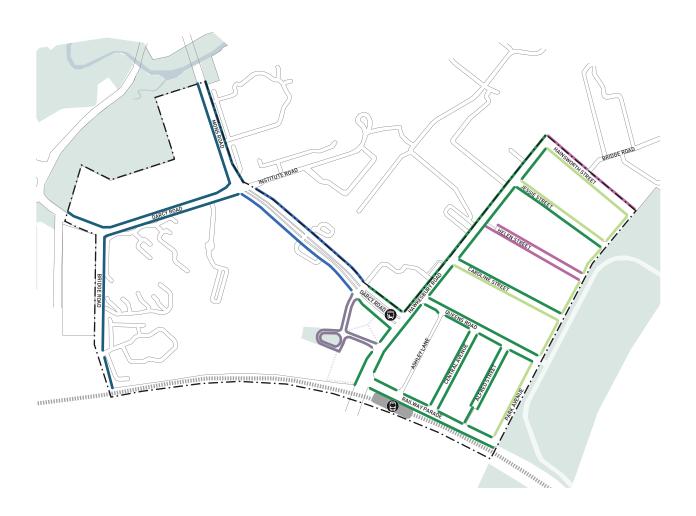
Service Pit Lids

Continuous use of paving units to infill service pits on footpath areas to match adjoining area treatment.



Granite Infill Match the stone material used on footpath

Figure 4.44 Westmead Town Centre - Street Tree Strategy



^WESTMEAD TOWN CENTRE STREET TREE



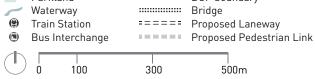


Figure 4.45 Westmead Town Centre - Street Tree Materials Palette

Retail Streets



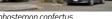




Residential Streets

(non wire)









Harpullia pendula

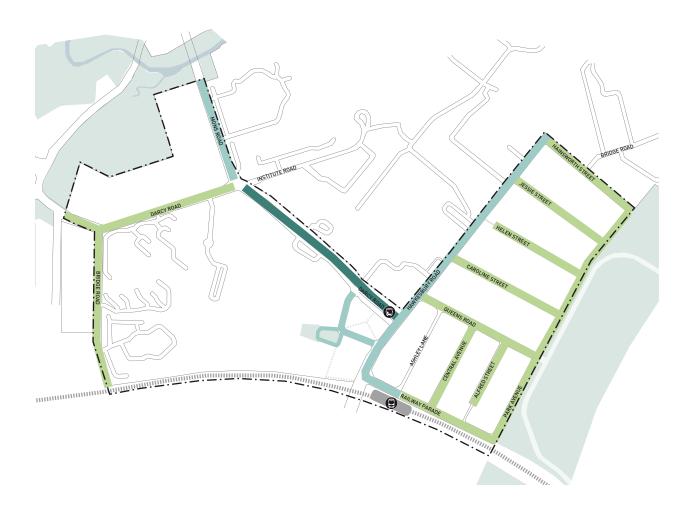
Residential **Streets**

(under wire)



Bunckinghamia celsissima

Figure 4.46 Westmead Town Centre - Street Tree Surround Finishes Strategy



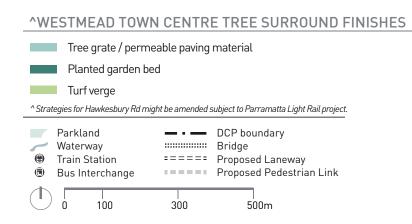
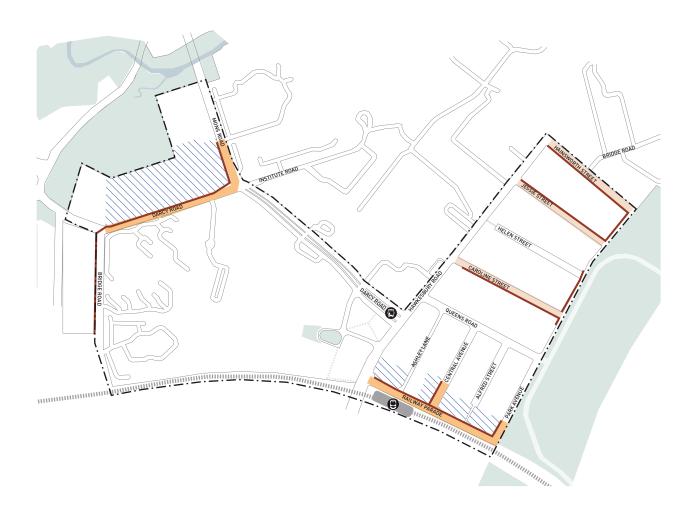


Figure 4.47 Westmead Town Centre - Overhead Power Strategy



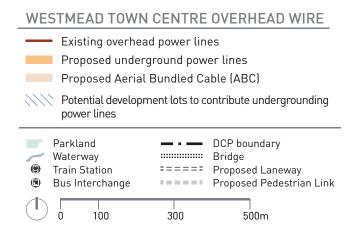
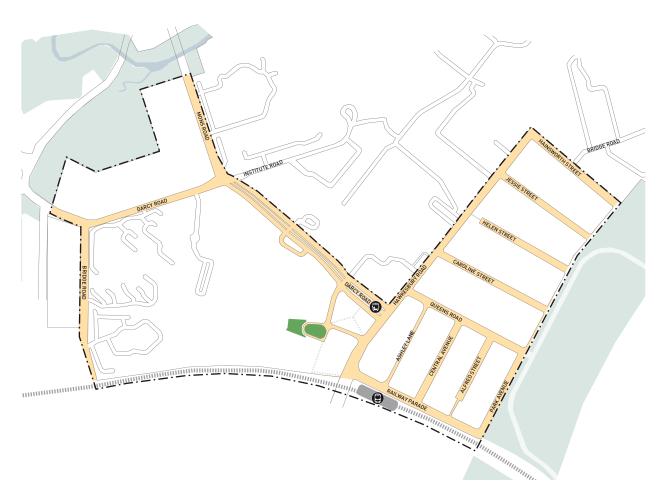


Figure 4.48 Westmead Town Centre - Furniture Strategy



^WESTMEAD TOWN CENTRE FURNITURE

Category		Location	Туре	
	High Profile Suite	- Special places	Semi-bespoke or off shelf products with high quality and aesthetic value to highlight the identities and characters of the high pedestrian amenity places.	
	Bespoke Items	All High Profile locations. Subject to design approval.	Flexibility is allowed for custom-designed items to suit special designs in high profile locations.	
	Utility Suite	- City streets; - Transport facilities, e.g. bus stop, taxi rank.	Off shelf products with durable and functional design and quality to accommodate public needs.	
	Recreation Suite	- Parks & reserves	Requirements refer to Council's Open Space team.	

 $[\]verb|^Strategies| for \textit{Hawkesbury Rd might be amended subject to Parramatta Light Rail project}.$

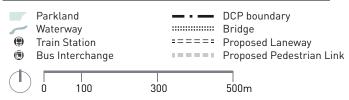


Figure 4.49 Westmead Town Centre - Furniture Palette

High Profile

Utility

High Profile

Utility

Seat



Material: mild steel frame and hardwood slats Finish: powdercoated and oiled PCC Currently Used Model: HUB S3 Modified*



Material: cast aluminium frame and panel and seat Finish: powdercoated Colour: Dulux Precious® Silver Pearl PCC Currently Used Model: SFA Concourse 3 Seater*

Bollard



Material: stainless steel or aluminium body Finish: brushed or powdercoated . Size varies to suit traffic reauirements



Material: stainless steel or aluminium body Finish: brushed or powdercoated Size varies to suit traffic requirements

Bin & Cigarette **Butt Bin (stand** alone)



Material: mild steel frame, Rimex metal panels and stainless steel chute Capacity: 120L Lock assembly: PCC key-alike system PCC Currently Used Model: HUB S2 Modified*



Bin -Material mild steel frame gal panels and stainless steel chute Finish: powdercoated Colour: black Capacity: 120L Cigarette Butt Bin -

Pedestrian Fence

N/A



RMS Pedestrian Barrier Type 1 (refer to www.RMS.nsw.gov.au)

Lock assembly: PCC key-alike

Material: mild steel and stainless steel cover

Bus **Shelter**



Supplier: Adshel



Supplier: Adshel

Drinking Fountain



Material: stainless steel Extras: water filter unit, bottle filler, sub-surface drain PCC Currently Used Model: Aqualfil Refill Station & Drink Fountain*



Material: stainless steel and $\it aluminium\ grate$ Extras: bottle filler, dog bowl, sub-surface drain PCC Currently Used Model: Botton + gardiner Prospect Drink Fountain*

Supplier: Adshel

Bike Rack



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*



Material: stainless steel Finish: polished PCC Currently Used Model: SFA Semi Hoop*

Tree **Grate**



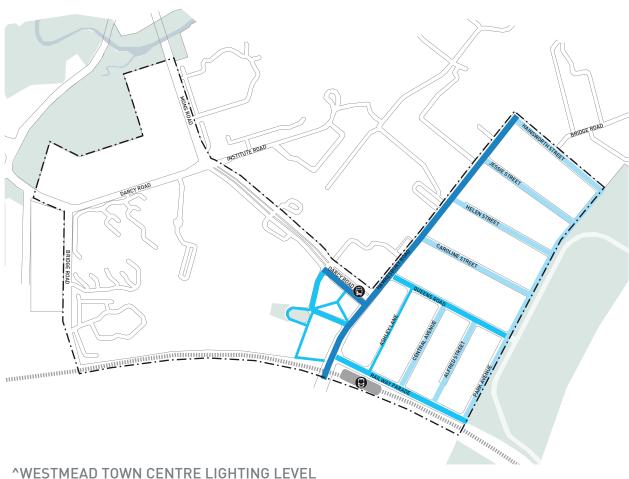
Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy



Material: cast aluminium Finish: shot blast Size: 1.5 x 1.5m Supplier: Furphy

*Where models/brand names are nominated, they are indicated only. CoP wishes to maintain consistency in the public domain but does not wish to restrict or endorse any one brand.

Figure 4.50 Westmead Town Centre - Pedestrian Lighting Level Strategy



- PEDESTRIAN

Local or collector roads with high prestige, high pedestrian/cycle activity and medium risk of crime

Category P3

Local or collector roads with medium prestige, medium pedestrian/cycle activity and low risk of crime

Category P4

Local or collector roads with low pedestrian/cycle activity and low risk of crime

^ Strategies for Hawkesbury Rd might be amended subject to Parramatta Light Rail project.

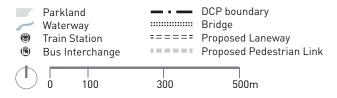


Figure 4.51 Westmead Town Centre - Vehicular Lighting Level Strategy



Category V1

High/very high vehicle volume; high very high pedestrian volume; and moderate/low vehicle speeds

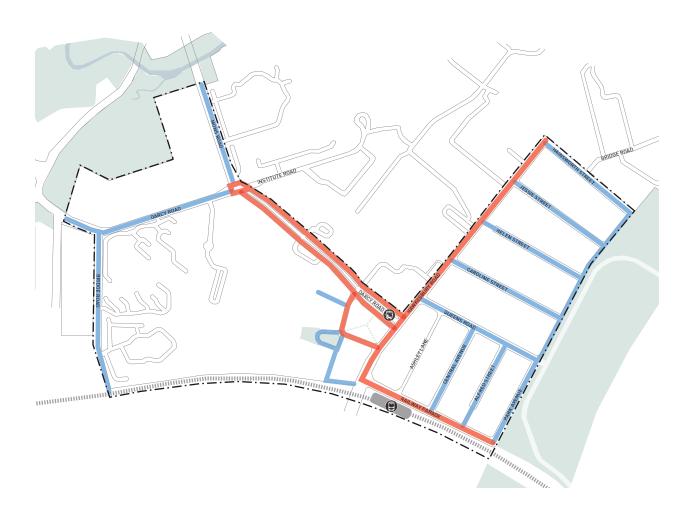
Arterial roads with mixed vehicle/pedestrian traffic, moderate/high vehicle volume; high pedestrian volume; and moderate/low vehicle speeds

Mixed vehicle and pedestrian traffic; moderate traffic volume; low pedestrian volume; moderate to low

^ Strategies for Hawkesbury Rd might be amended subject to Parramatta Light Rail project.



Figure 4.52 Westmead Town Centre - Street Pole Strategy



^WESTMEAD TOWN CENTRE POLE - STREETS

Large Multi Functional Pole (10m) with CCTV, 2xGPO, LEDs, Smart City

Electrical Authority Pole with lamp upgrade

^ Strategies for Hawkesbury Rd might be amended subject to Parramatta Light Rail project.

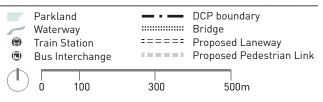
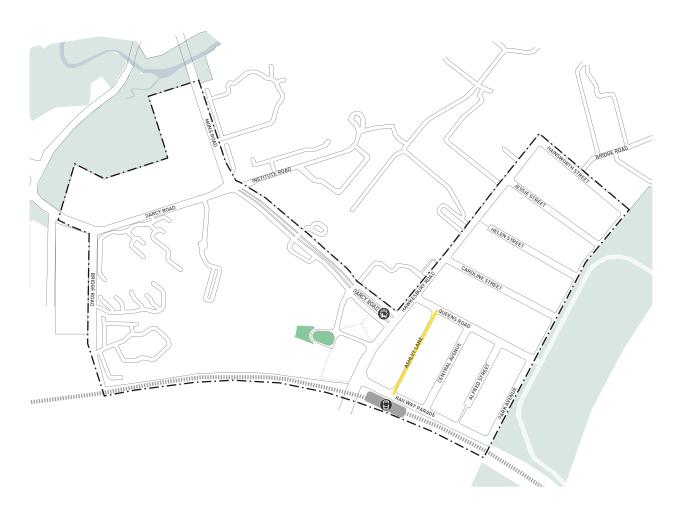


Figure 4.53 Westmead Town Centre - Park, Plaza & Lane Pole Strategy



^WESTMEAD TOWN CENTRE POLE - SPECIAL PLACES, LANEWAYS & PARKS

	Special Place	Lanes	Parks
Large Multi Functional Pole (10m) with CCTV, 2xGPO, LEDs, Smart City	✓	×	×
Medium Multi Functional Pole (8m) with CCTV, GPO, LEDs, Smart City	✓	✓	×
Tapered Pole (8m) with wall mount option, CCTV, GPO, LEDs, Smart City	✓	✓	✓
Park Pole (subject to site) with CCTV	×	×	V

 $^{^{\}wedge}\, Strategies\, for\, Hawkesbury\, Rd\, might\, be\, amended\, subject\, to\, Parramatta\, Light\, Rail\, project.$

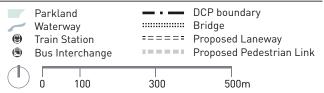
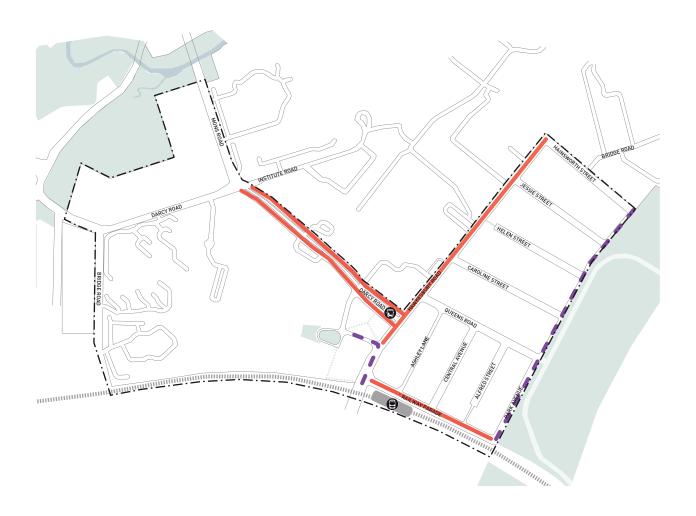
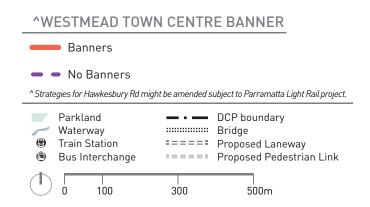


Figure 4.54 Westmead Town Centre - Banner Strategy









FUTURE URBAN VILLAGES

4.5 FUTURE URBAN VILLAGES

A future urban village is an urban development typically characterized by medium-high density housing, mixed use zoning, good public transit and an emphasis on pedestrianisation and public space.

In the Parramatta LGA urban villages are typically brown field developments in former industrial precincts surrounded by low density residential developments. Development is often the subject of large-scale land re-zoning and holistic master planning.

A significantly improved public domain setting is required to address anticipated increases in resident and worker populations in these areas. Urban villages in the Parramatta LGA include the following:

- Camellia
- Carlingford
- Carter St Precinct
- Melrose Park
- Parramatta North Urban Transformation Precinct
- Telopea
- Wentworth Point

4.5.1 CAMELLIA

The Department of Planning and Environment has developed a Land Use and Infrastructure Strategy for the Camellia Precinct. It is located around the existing Camellia heavy rail station which is proposed for upgrade to light rail as part of the Parramatta Light Rail project by Transport for NSW. The Camellia Urban Village covers the area adjacent to the railway station and is proposed to support vibrant mixed use development and up to 10,000 new dwellings.

Details of the Strategy and latest project information can be found in below link:

http://www.planning.nsw.gov.au/camellia

4.5.2 CARLINGFORD

The Carlingford Urban Village is a business and high density residential zone. It is located around the existing Carlingford heavy rail station which is proposed for upgrade to light rail as part of the Parramatta Light Rail project by Transport for NSW. The area is undergoing rapid transformation from low to high density residential development.

Following council amalgamations in May 2016 a range of inherited public domain plans and strategies applied to the Carlingford Town Centre. The City has consolidated a coordinated set of strategies for Carlingford to guide future public domain works.

Proposed strategies and materials palettes for Carlingford are as follows:

Strategy/Map	Figure No.	Title	Page
Paving	Figure 4.55	Carlingford Urban Village - Paving Strategy	153
Street Tree	Figure 4.56	Carlingford Urban Village - Street Tree Strategy	154
Underground Wire	Figure 4.57	Carlingford Urban Village - Overhead Power Strategy	155

4.5.3 CARTER ST PRECINCT

The rezoning for the Carter St Precinct was finalised by the Department Planning & Environment in November 2015. The plan transforms the industrial area south of the Sydney Olympic Park into a new high density urban living community with retail streets, a primary school, parks and sports fields.

The DCP for Carter St Precinct can be found in below link:

http://www.auburn.nsw.gov.au/Develop/PlanPolicies/Pages/ DevelopmentControlPlans.aspx

The DP&E is currently undertaking a re-masterplanning process to balance the needs of traffic, transport, social and environment and achieve a more balanced urbanism in the precinct.

4.5.4 MELROSE PARK

Melrose Park Urban Village is the most recent urban renewal precinct located in City of Parramatta. It will transform the existing industrial area into another large mixed use and residnetial precinct. The rezoning process is currently at master plan stage and is subject to the usual development approval process. The City of Parramatta website will update the latest information about the precinct in due course.

4.5.5 PARRAMATTA NORTH URBAN TRANSFORMATION PRECINCT

Parramatta North is a significant heritage listed site which covers Cumberland Hospital (East Campus) and the former Norma Parker Correctional Centre for Women. The NSW Government proposes to rezone the area for public use and to sensitively integrate residential and mixed use development into the heritage precinct.

The approved land use plans and the latest development information can be found in NSW Urban Growth website:

http://www.urbangrowth.nsw.gov.au/projects/parramatta-north/

4.5.6 TELOPEA

A draft masterplan for Telopea has been developed, including plans to upgrade existing parks, deliver new parks and plazas, and improve streets with lighting, footpaths, street furniture and trees. It is located around the existing Telopea heavy rail station which is proposed for upgrade to light rail as part of the Parramatta Light Rail project by Transport for NSW. Further master planning is still ongoing and subject to the usual development approval process.

The details of the draft master plan and latest project information can be found in below link:

http://www.communitiesplus.com.au/major-sites/telopea

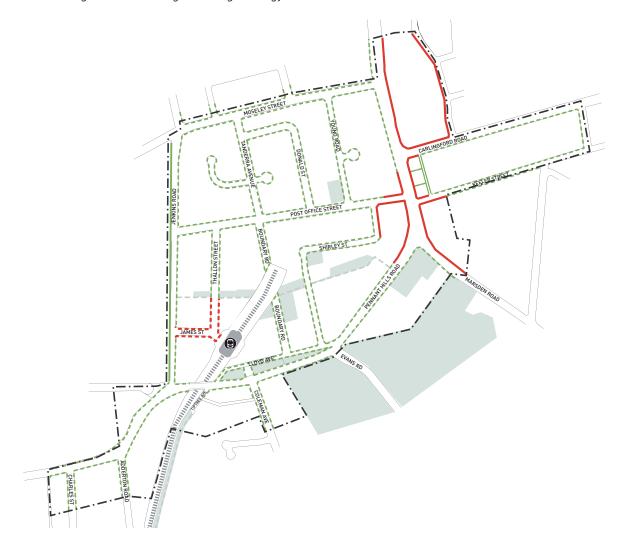
4.5.7 WENTWORTH POINT

The rezoning for the Wentworth Point Precinct was finalised by the Department of Planning and Environment in June 2014.

A series of Development Control Plans (DCP) and Master Plans can be found in Cumberland Council website:

http://www.auburn.nsw.gov.au/Develop/PlanPolicies/Pages/DevelopmentControlPlans.aspx

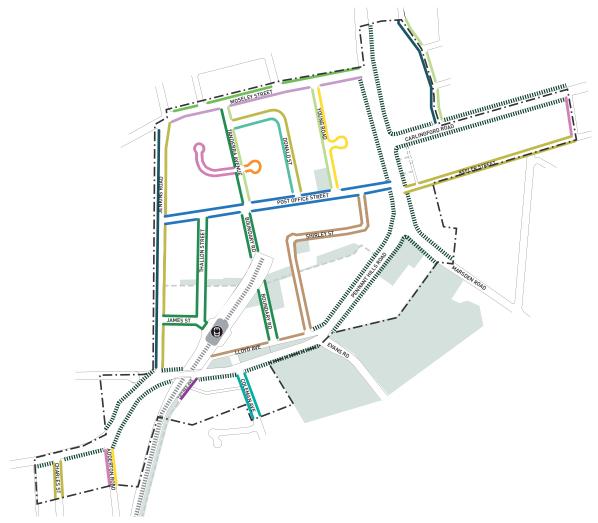
Figure 4.55 Carlingford Urban Village - Paving Strategy



CARLINGFORD URBAN VILLAGE FOOTWAY PAVING

CARLINOT ORD ORBAN VILLAGE FOOTWAT FAVING		
Street	In-situ concrete with porphyry insert (full width)	
	In-situ concrete with porphyry insert (with nature strip)	
_	In-situ concrete (full width)	
	In-situ concrete (1.5/1.8m wide, shared path excepted)	
—— Service Lane	In-situ concrete	
Pedestrian Link	In-situ concrete	
Parkland Precinct Boundary Waterway Bridge Train Station Proposed Laneway Bus Interchange Proposed Pedestrian Link		
0 100	300 500m	

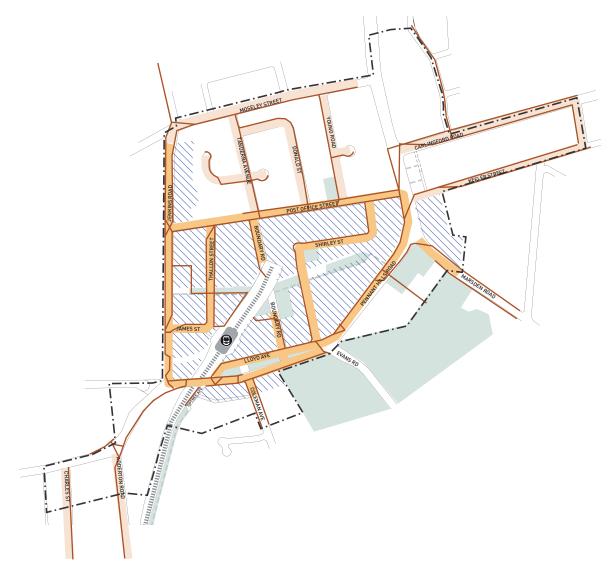
Figure 4.56 Carlingford Urban Village - Street Tree Strategy



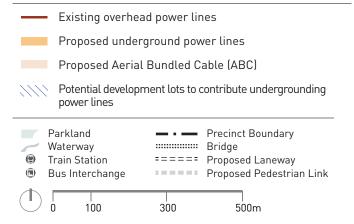
CARLINGFORD URBAN VILLAGE STREET TREE



Figure 4.57 Carlingford Urban Village - Overhead Power Strategy



CARLINGFORD URBAN VILLAGE OVERHEAD WIRE





ACTIVE NEIGHBOURHOOD & LOCAL STRIPS

LOCAL STREETS

4.6 ACTIVE NEIGHBOURHOOD AND LOCAL STRIPS

Forty-six (46) active neighbourhood and local strips of local retail and commercial activities are located throughout the City outside the CBD and main Town Centres and Urban Villages. These strips typically service a high volume of local pedestrian activities and are included on local public transport routes. They have varied local characters and may contain cultural and/or natural value assets.

Active Neighbourhood and Local Strips are typically defined by busy ground floor retail and commercial development with access to local public transport routes. They support a high level of pedestrian use and are a focus for local community connectivity.

A high quality palette of materials is historically used to respond to high pedestrian use and amenity in local activity strips. Paving treatment is typically delivered by City's Capital Works team as part of major streetscape upgrades guided by local consultation with retailers and users. A range of selected materials have been used to suit local character and aspirations. Paving layouts have typically comprised a secondary style of treatment mixing unit pavers in a banding pattern with in-situ concrete or asphalt infill. This consultative process and practice of mixing of materials in response to a well-considered, comprehensive and Council led design process continues to be Council's preferred approach.

Major new streetscape upgrades in the activity centres will continue to be led by Council's design team. Development proposals that affect the public domain should allow to reinstate the original pavement finish unless instructed otherwise by Council.

4.7 LOCAL STREETS

Local streets include a variety of street types servicing industrial and low-medium density residential development. Local streets need to address areas of high and low pedestrian activity. Some local streets form part of the pedestrian green grid and the cycleway networks. A leafy green character is sought for all local areas to promote shade, comfort and amenity for people.

Local streets comprise a simple verge treatment of concrete footpath and grass or planted verge. Footpath widths vary according to development type and are prescribed as follows:

R2 Residential. Industrial Zones

Verge Width	Footpath Width
less than 2m	full width concrete footpath
all other widths	1.5 concrete footpath

R3 & R4 Residential Zones

Verge Width	Footpath Width
less than 2m	full width concrete footpath
2.0-3.0m	1.5m concrete footpath
all other widths	1.8m concrete footpath

In all cases:

- Footpath widths are to be consistent along any given street as much as practicable. This may result in minor variations to the above prescriptions and should be negotiated with Council.
- New footpaths should be located abutting the property boundary line for new R3 and R4 development unless unachievable because of topographical or other constraints. Where this is results in odd footpath alignments, design should be negotiated with Council.
- The Parramatta Ways Walking Strategy, promoting the creation of a strong network of walkable green connections through local neighbourhoods, affects many local streets. Refer to the Strategy for the scope and special requirements for these streets.



