## 7.4 Tower Precedents



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## 7.5 Tower facade Types





 Anodised aluminium horizontal louvre parallel to floor at approx.
200mm AFFL - Warm metallic grey
Linear frit to glazing increasing in density at sitting to standing eye level - Warm metallic grey
Performance glazing

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1. Ar tilt at 2. Lir level 3. Pe 4. Lir FFL a 5. Ar grey

 Performance glazing
Linear frit to glazing in FFL above
Anodised aluminium I

1. Anodised aluminium horizontal louvre tilting towards 30 downward tilt at east and west - Warm metallic grey

2. Linear frit to glazing increasing in density at sitting to standing eye level - Warm metallic grey

4. Linear frit to glazing increasing in density from 2200mm AFFL up to

5. Anodised aluminium louvre tilting down 30 degrees - Warm metallic









 Performance glazing
Linear frit to glazing increasing in density from 2200mm AFFL up to FFL above
Anodised aluminium louvre tilting down 30 degrees - Warm metallic grey



 Performance glazing
Linear frit to glazing increasing in density from 2200mm AFFL up to FFL above. Reducing depth as transitions onto southern facade
Anodised aluminium louvre tilting down 30 degrees reducing depth onto southern facade - Warm metallic grey

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# **8.0 ENVIRONMENTAL**

### TOWER

One of our key challenges was to achieve an integrated environmental approach to achieving environmental efficiency, rather than simply adding expensive plant and equipment. This approach will ensure that a 5 Green Star Rating can be achieved in a cost effective manner. Key initiatives proposed for the design are:

- / A high performance façade with integral sunshading
- / A low energy air conditioning system with healthy indoor air quality
- / High levels of day lighting without glare
- / Water efficient fixtures
- / Rain Water storage.

### FAÇADE

The façade incorporates a ceramic fritt and aluminium sunshade to reduce heat gain and minimise glare. East and west facades have the sunshade at 2.2m above floor level, and fritt above, reducing glare. The north façade has the sunshade at 2.4m above floor level, and the fritt below for privacy control. The façade minimises energy use through reducing heat gain, while improving user comfort through glare control.

#### DAY LIGHTING

The extensive use of floor to ceiling glass maximises daylight on the floorplate. The sunshades below ceiling level also cat as light shelves reflecting daylight deep into the floorplate. Linear fritt controls glare on east and west orientations, minimising reliance on roller blinds.

#### **ARTIFICIAL LIGHTING**

Low energy T5 fixtures are proposed in a single batten light fitting to provide the most energy efficient artificial lighting on the floorplate. Mechanical Ventilation

A low temperature variable air volume (VAV) mechanical system is proposed, with high efficiency 'swirl' diffusers in the ceiling. This system is the lowest energy systems available as a 'conventional' VAV system.

### NATURAL VENTILATION

We are investigating the incorporation of natural ventilation to the podium office space. This area has is protected from wind and thus more suitable to natural ventilation.

### WATER

Water efficient fixtures will be used throughout the building, including waterless urinals to minimize water useage. In addition rain water will be stored on site and used to irrigate the landscaped terrace.



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## 9.0 LANDSCAPE / **PUBLIC DOMAIN**

North Sydney's Central Laneways Precinct provides much needed social heart. Pedestrians are prioritised and new active ground plane is created.

#### 9.1 PUBLIC DOMAIN - A BUZZING DESTINATION

The public domain responds to aspirations set out in North Sydney Councils Central Laneways Masterplan (July 2016) creating a new pedestrian priority laneway network in the heart of the CBD. Changes to vehicular movement (see traffic report), a new metro entry and a mid-bloc pedestrian crossing allows significant areas to be reclaimed for pedestrians with generous paths stretching from Square to Square, metro to CBD.

Transitioning from Brett Whitely Square (currently being upgraded by Council), Denison Street includes a feature paving strip flanked by new street trees and outdoor dining. Identifying the major paths the feature paving continues past the proposed entry to the forthcoming Metro and continues up a widened pedestrian path (Upper Denison Street) towards Berry Square. East West movements are also accented with a new mid bloc pedestrian link.

Spring Street retains its voluminous canopies and existing trees with planter boxes reworked in a more contemporary fashion. The new entry and foyer invite people into the space.

Little Spring Streets western footpath is extended and enhanced with new street trees and paving. The road retains its loading function and opportunities to add a playful painted treatment to the road surface will be explored.

Berry Square is upgraded with new paving, planter boxes and planting. A water feature/natural pond to the north provides babbling sounds of water to counter the traffic noise of Berry Street and a feature tree is surrounded by public seating is a focal point for this green space.



ILLUSTRATIVE PLAN - PUBLIC DOMAIN not to scale









slow speed shared way

potential artwork /catenary lighting

Brett Whiteley Square

feature paving

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potential artwork

NEWLINK

a major new pedestrian link and covered way

pedestrian link 法查 al fresco dining new raised crossin covered pedestrian link

ILLUSTRATIVE SECTION AA' - NEW LINK not to scale







potential pedestrian link upgrade



al fresco dining

pedestrian link

pedestrian link





not to scale

BERRY SQUARE

a vibrant sunny square filled with delight







ILLUSTRATIVE SECTION BB' - BERRY SQUARE not to scale

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BB'





## SPRING STREET

existing tree canopies create a dense green ceiling





Existing Plane tree to be retained

ramp blended into stairs

shared zone with limited --vehicle access

existing tree canopies create a dense green ceiling

combined feature patterns and colours on asphalt paving



ILLUSTRATIVE SECTION CC' - BERRY SQUARE



## LITTLE SPRING STREET

an artful + playful service way







## PODIUM TERRACE

a green respite

## PODIUM TERRACE - INDICATIVE PLANTING SCHEDULE







Lomandra longifolia

Juncus kraussii



Pennisetum alopecuroides

**Botanic Name** 

Carles 1

Euphorbia characias wulfenii



Hymenocallis speciosa



Dichondra repens



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Hymenocallis speciosa	
Juncus kraussii	-
Lomandra longifolia	-
Poa labillardieri	-
Pennisetum alopecuroides	
Philodendron 'Xanadu'	
Westringia fruticosa 'Zena'	



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Poa labillardieri

Dietes robinsoniana

Common Name	Estimated Pot Size	Native/ Exotic
Blue Flax Lily	200mm	native
Kidney Weed	200mm	native
Lord Howe Wedding Lily	200mm	native
Mediterranean Spurge	200mm	exotic
Spider Lily	200mm	exotic
Salt Marsh Rush	200mm	exotic
Spiny Headed Mat Rush	200mm	native
Tussock-gras	200mm	native
Fountain Grass	200mm	native
Philodendron	200mm	exotic
Coast Rosemary	300mm	native

## INDICATIVE PLANTING SCHEDULE

### DENISON STREET













Neomarica gracilis

### **Botanic Name**

Ulmus parvifolia







Pyrus ussuriensis







UPPER DENISON STREET



LITTLE SPRING STREET/ SPRING STREET



BERRY SQUARE

Flindersia australis

Ficus rubiginosa



Ulmus parvifolia

Elaeocarpus eumundii



Waterhousea floribunda

rhaphiolepis indica 'Snow White' Alcantarea imperialis



Pyrostegia venusta

Populus simo





Pyrus calleryana 'Bradford



Thymus serpyllum



Botanic Name	Common Name	Pot Size	Native/ Exotic
Trees			
Elaeocarpus eumundii	Eumundi Quan-	400L	native
Eleaocarpus reticulatus	Blueberry Ash	400L	native
Ficus rubiginosa	Port Jackson Fig	400L	native
Populus simonii	Chinese Poplar	400L	exotic
Pyrus calleryana 'Bradford'	Bradford Pear	400L	exotic
Pyrus ussuriensis	Manchurian Pear	400L	exotic
Sapium sebiferum	Chinese tallow tree	200L	exotic
Ulmus parvifolia	Chinese elm	400L	exotic
Waterhousea floribunda	Weeping Lilly Pilly	400L	native
Shrubs + Ground cover			
Alcantarea imperialis	Imperial Bromeliad	45L	exotic
Lomandra hystrix 'Tropic belle'	Lomandra hystrix	200mm	native
Pyrostegia venusta	Flame vine	200mm	exotic
Origanum vulgare	Oregano	150mm	exotic
Philodendron 'Xanadu'	Xanadu	200mm	native
Pandorea pandorana	Wonga Wonga Vine	25L	exotic
Rhaphiolepis indica 'Snow	India hawthorn	25L	exotic
Thymus serpyllum	Breckland Thymer	150mm	exotic
Neomarica gracilis	Walking Iris	200mm	exotic