Ku-ring-gai Public Domain Plan Draft for Exhibition



Volume 3 - Technical Manual

in the second

Introduction

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Purpose of this Plan

The primary aim of the Public Domain Plan is to promote and guide the revitalisation of Ku-ring-gai's Local Centres so that they become the focus of community life for residents and visitors to the area.

The Ku-ring-gai Local Government Area (LGA) has four primary Local Centres – Turramurra, Gordon, Lindfield and St Ives - and two secondary Local Centres – Pymble and Roseville.

The Greater Sydney Commission has charged Councils of the Sydney region with improving their Local Centres to become places of community pride. Improvements are expected to focus on making centres walkable, improving community connections, supporting social and economic participation, and improving green infrastructure for future climate resilience.

AIMS OF THE PUBLIC DOMAIN PLAN

The aims of this Public Domain Plan is to provide guidance for the design of public spaces in Ku-ring-gai's Local Centres to ensure new works reflect Council's directions and policies.

The PDP comprises three (3) volumes:

- Volume 1 Public Domain Strategy
- Volume 2 Local Centres Public Domain Plans
- Volume 3 Technical Manual

Volume 1 – Public Domain Strategy

- outlines the vision for the Ku-ring-gai LGA and Local Centres;
- aligns with the Ku-ring-gai Local Environment Plan and Development Control Plan;
- sets out the overarching principles for the Local Centres; and
- lists other associated Council and state government documents that provide background information or are relevant to design decisions that need to be made in the planning and design of the public domain.

Volume 2 – Local Centres Public Domain Plans

- sets out objectives for each Local Centre;
- describes concept designs for the primary and secondary Local Centres of Ku-ring-gai LGA;
- provides concept designs for streetscapes, and public open spaces for key streets and street typologies in the Local Centres; and
- provides tree species for use in Local Centres.

Volume 3 – Technical Manual

- provides typical technical details for public domain components;
- nominates materials to be used for public domain works; and
- nominates tree species lists for use in Local Centres.

This section is Volume 3.

Reference must be made to all volumes prior to proceeding with the design for public domain areas.

Street Summary



Local Centre Street Hierarchy

LOCAL CENTRE STREET HIERARCHY

Streets (including lanes and roads) form the primary component of the public domain area of the Local Centres. The quality and character of the streets play a significant role in the experience of the Local Centre.

The streets are the key movement spaces for pedestrians so they need to be safe and accessible, as well as attractive. Safe attractive streets encourage activation and bring life to Local Centres, improving opportunities for community connections and interactions.

A hierarchy of streets assists people to find their way around the Local Centre, making it legible for navigation and identification. A street hierarchy has been prepared for each Local Centre and typical proposed characteristics of those streets have been assigned. A summary of the streets in each Local Centre are shown on the following tables (p6-17).

► Local Centre Core

- Precast concrete unit paving as per Public Domain Technical Manual.
- · Street furniture located at regular intervals.
- Underground power.
- Selected Council street and pedestrian lighting with banner poles as per Public Domain Technical Manual.
- · Street tree planting.
- Public art.

Local Centre Shared Zone

- Brick paving as per Public Domain Technical Manual.
- Street furniture located at regular intervals.
- Underground power.
- Selected Council street and pedestrian lighting with as per Public Domain Technical Manual.
- Street tree planting.

Local Centre Transition

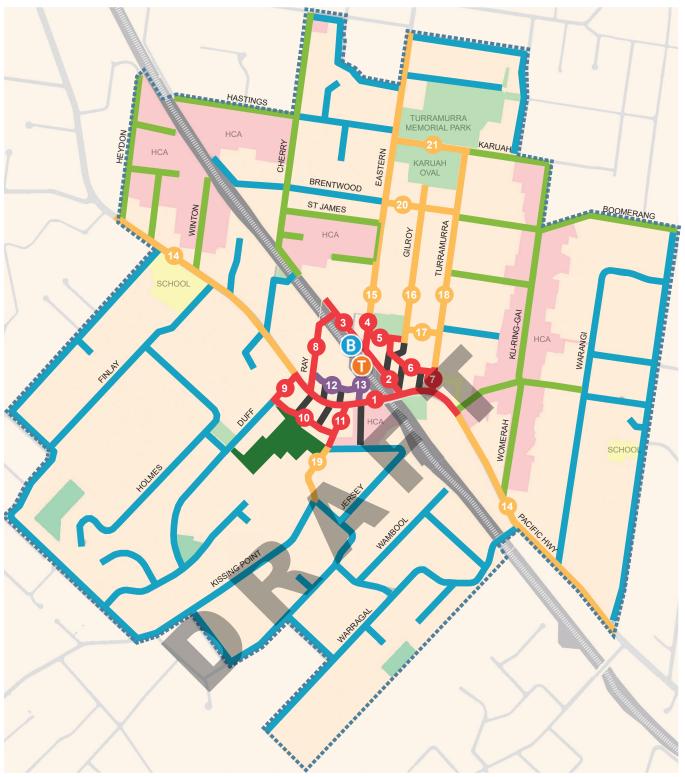
- Concrete pavement (exposed aggregate) as per Public Domain Technical Manual.
- Street furniture located at regular intervals.
- Underground power.
- Standard Ausgrid street lighting.
- Street tree planting.

Local Centre Standard

- Concrete pavement as per Public Domain Technical Manual.
- Bundle aerial cables.
- Standard Ausgrid street lighting.
- Street tree planting.

Local Centre Heritage

- Asphalt pavement as per Public Domain Technical Manual.
- Bundle aerial cables.
- Standard Ausgrid street lighting.
- Street tree planting.



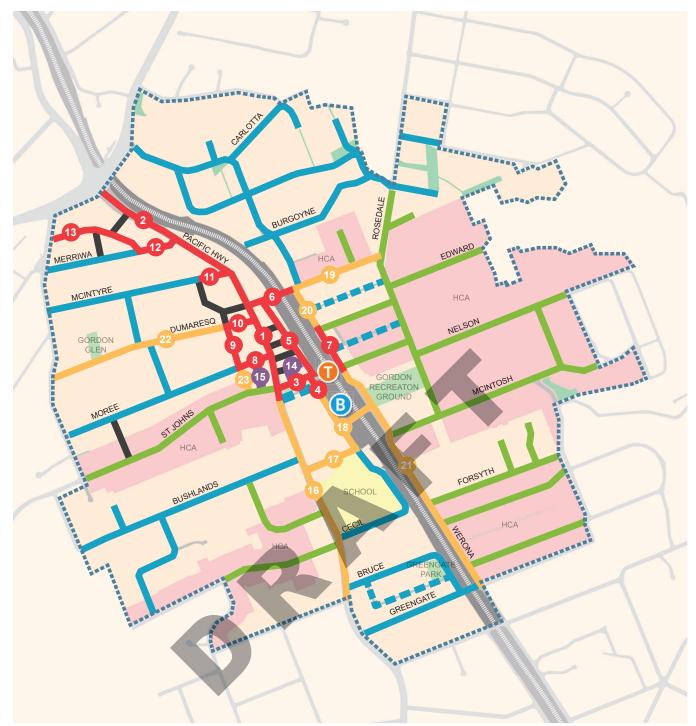
Extent of Turramurra Local Centre and Street Hierarchy



TURRAMURRA	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
Pacific Highway (Duff Street to Ku-ring-gai Avenue)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Elaeocarpus reticulatus Pyrus calleryana 'Capital'	Seats / bins at 60-100m intervals and at bus stops.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Underground power.
2 Rohini Street (Pacific Highway to Eastern Road)	Local Centre Core Paving: Precast concrete units. Brick paving for pedestrian areas to outdoor dining. Brick Paving for vehicular areas to parking bays.	Trees planted in stratavault. Proposed species: Hymenosporum flavum Lagerstroemia indica x L. fauriei Lophostemon confertus	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Underground power.
3 Rohini Street (Eastern Road to Ray Street)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Hymenosporum flavum Lagerstroemia indica x L. fauriei Lophostemon confertus	Seats / bins at bus interchange and at key crossing and gathering areas.	Install selected Council street lights and provide lighting within shelter structures.	Underground power recommended If existing trees then bundle existing aerial cables.
Eastern Road (Rohini Street to Olive Lane)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Lophostemon confertus</i> <i>Quercus palustris</i>	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners.	Underground power recommended If existing trees then bundle existing aerial cables.
5 Gilroy Road (Western Arm)	Southern Verge: Local Centre Core Paving: Precast concrete units. Northern Verge: Local Centre Transition Paving: Exposed aggregate concrete.	Trees planted in stratavault. Proposed species: <i>Lagerstroemia indica x</i> <i>L. fauriei</i>	Seats / bins at key crossing and gathering areas.	Install selected Council street lights.	Underground power.
6 Gilroy Lane	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Lagerstroemia indica x L. fauriei Nyssa sylvatica Zelkova serrata 'Green Vase'	Seats / bins at 60-100m intervals, where practical.	Install selected Council street lights.	Existing underground power.
7 Turramurra Avenue (Pacific Highway to Gilroy Lane)	Local Centre Core Paving: Precast concrete units. Brick paving for pedestrian areas to Masonic Hall Frontage.	Trees planted in stratavault. Proposed species: Nyssa sylvatica Zelkova serrata 'Green Vase'	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Underground power.
8 Ray Street	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Angophora costata Elaeocarpus reticulatus Eucalyptus saligna	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners.	Underground power.
9 Duff Street (Pacific Highway to Stonex Street)	Western Verge: Local Centre Transition Paving – exposed aggregate concrete. Eastern Verge: Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Angophora costata Eucalyptus paniculata Lophostemon confertus	Seats / bins at key crossing and gathering areas.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.

TURRAMURRA	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
10 Stonex Street	Local Centre Core Paving: Precast concrete units. Brick Paving for vehicular areas to parking bays.	Trees planted in stratavault. Proposed species: Angophora floribunda Eucalyptus saligna Glochidion ferdinandi var. ferdinandi	Seats / bins at key crossing and gathering areas.	Install selected Council street lights.	Underground power.
11 Kissing Point Road (Pacific Highway to Boyd Street)	Western Verge: Local Centre Core Paving: Precast concrete units. Eastern Verge: Asphalt Paving to Heritage Conservation Areas.	Trees planted in stratavault. Proposed species: <i>Lagerstroemia indica x</i> <i>L. fauriei</i> <i>Lophostemon confertus</i>	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners.	Underground power.
12 Forbes Lane	Brick Paving for shared zones.	Trees planted in stratavault Proposed species: <i>Lagerstroemia indica x</i> <i>L. fauriei</i> <i>Pyrus ussuriensis</i>	Provide a variety of seating opportunities and use street furniture to direct vehicular movement.	Install selected Council street lights.	Underground power.
13 William Street	Local Centre Core Paving: Precast concrete units. Brick Paving for shared zones.	Trees planted in stratavault. Proposed species: Angophora costata Eucalyptus paniculata Lophostemon confertus Quercus palustris	Provide a variety of seating opportunities and use street furniture to direct vehicular movement.	Install selected Council street lights with arms for banners.	Underground power.
Pacific Highway (East of Ku-ring-gai Avenue, West of Duff Street)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Elaeocarpus reticulatus Lagerstroemia indica x L. fauriei Pyrus calleryana 'Capital'	Seats and bins in selected locations that do not interfere with pedestrian movement or outdoor dining areas.	Retain Ausgrid lighting.	Bundle aerial cables.
Eastern Road (Olive Lane to Bangalla Street)	Local Centre Transition Paving: Exposed aggregate concrete. Asphalt Paving to Heritage Conservation Areas.	Proposed species: Eucalyptus paniculata Lophostemon confertus	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
Gilroy Road (Northern Arm)	Local Centre Transition Paving: Exposed aggregate concrete. Asphalt Paving to cycle path.	Proposed species: <i>Melaleuca quinquenervia</i> <i>Quercus palustris</i>	Seats at approximately 100m intervals.	Install selected Council street lights.	Underground power recommended. If existing trees then bundle existing aerial cables
17 Proposed Street (New)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Backhousia citrodora	None.	Install Ausgrid standard lighting.	Not applicable.
18 Turramurra Avenue (Gilroy Lane To Brentwood Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Eucalyptus paniculata Lophostemon confertus Syncarpia glomulifera	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.

TURRAMURRA	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
13 Kissing Point Road (Stonex Street to Catalpa Crescent)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Eucalyptus paniculata Lophostemon confertus Syncarpia glomulifera	Seating provided at bus stops.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
20 Brentwood Avenue (Turramurra Avenue to Eastern Road)	Local Centre Standard Paving: Concrete path.	Proposed species: Franklinia axillaris Lophostemon confertus	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
21 Karuah Road (Turramurra Avenue to Eastern Road)	Local Centre Standard Paving: Concrete path.	Proposed species: Eucalyptus paniculata Syncarpia glomulifera	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
22 'Standard' Street	Local Centre Standard Paving: Concrete path.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.
23 'Heritage' Street	Asphalt Paving to Heritage Conservation Areas.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.



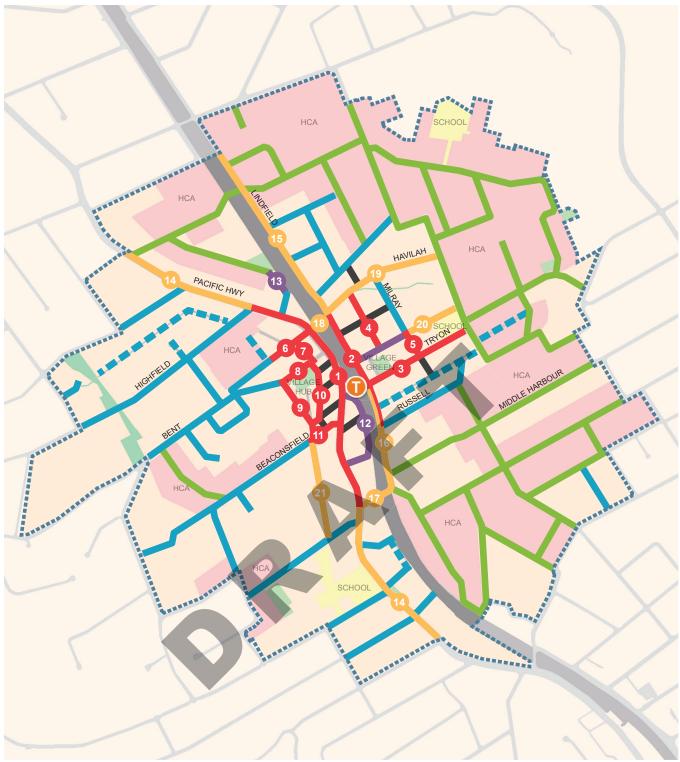
Extent of Gordon Local Centre and Street Hierarchy



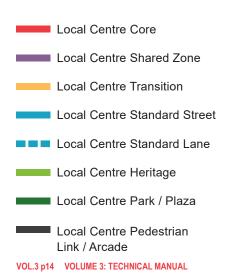
GORDON	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
Pacific Highway (McIntyre Street to St Johns Avenue)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Lagerstroemia indica x</i> <i>L. fauriei</i> <i>Tristaniopsis laurina</i>	Seats / bins at 60-100m intervals and at bus stops.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Existing underground power.
Pacific Highway (Ryde Road to McIntyre Street)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Eucalyptus paniculata Araucaria cuninghamiana	Seats / bins at 60-100m intervals and at bus stops.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Existing underground power.
3 St Johns Avenue (Pacific Highway to Henry Street)	Local Centre Core Paving: Precast concrete units. Brick paving for pedestrian areas to outdoor dining.	Trees planted in stratavault. Proposed species: Zelkova serrata 'Green Vase'	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Existing underground power.
Henry Street (North of no. 36)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Cupaniopsis anarcardioides</i> <i>Lophostemon confertus</i>	Seats / bins at key crossing and Kiss and Ride areas.	Install selected Council street lights with arms for banners.	Existing underground power.
5 Wade Lane	Local Centre Core Paving: Precast concrete units.	Trees in pits with tree growing vault trench beneath. Proposed species: <i>Melaleuca styphelioides</i>	Bins near pedestrian crossings.	Install selected Council street lights.	Existing underground power.
Park Avenue (Pacific Highway to Werona Avenue)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Lagerstroemia indica x L. fauriei	Seats / bins at key crossing and gathering areas.	Install selected Council street lights.	Existing underground power.
Werona Avenue (Khartoum Avenue to Robert Street)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Acer buergerianum Nyssa sylvatica	Seats / bins at bus stop and Kiss and Ride areas.	Install selected Council street lights. Under-awning pedestrian lighting.	Existing underground power.
Moree Street (Pacific Highway to no. 7)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Gingko biloba</i> Zelkova serrata 'Green Vase'	Seats and bins in kerb extensions.	Install selected Council street lights.	Existing underground power.
Proposed Lane (New)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Melaleuca styphelioides Tristaniopsis laurina	None.	Install selected Council street lights.	Underground power.

GORDON	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
10 Dumaresq	Local Centre	Trees planted in stratavault.	None.	Install selected	Existing
Street (Pacific Highway to Radford Place)	Core Paving: Precast concrete units.	Proposed species: Elaeocarpus reticulatus		Council street lights with arms for banners.	underground power.
11 McIntyre Street (Pacific Highway to McIntyre Lane)	Local Centre Core Paving: Precast concrete units.	Proposed species: <i>Melaleuca linariifolia</i> <i>Waterhousia floribunda</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
12 Merriwa Street (Pacific Highway to Fitzsimons Lane)	Northern Verge: Local Centre Core Paving: Precast concrete units. Southern Verge: Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: <i>Tristaniopsis laurina</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
13 Fitzsimons Lane	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Eucalyptus microcorys</i>	Provide a variety of seating opportunities and use street furniture to direct vehicular movement.	Install Ausgrid standard lighting.	Underground power.
Clipsham Lane	Brick Paving for shared zones.	None.	None.	Install selected Council street lights.	Existing underground power.
5 St Johns Lane	Brick Paving for shared zones.	None.	None.	Install Ausgrid standard lighting.	Underground power.
16 Pacific Highway (South of Churchill Lane)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Lophostemon confertus Melaleuca styphelioides	Seats at 100m intervals and at bus stops. Bins at 100m intervals.	Retain Ausgrid lighting.	Bundle aerial cables.
17 Ravenswood Avenue	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Lophostemon confertus	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
18 Henry Street (South of no. 36 to Ravenswood Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: <i>Cupaniopsis anarcardioides</i> <i>Lophostemon confertus</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Existing underground power.

GORDON	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
19 Park Avenue (Werona Avenue to Rosedale Road)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Acer buergerianum Lagerstroemia indica x L. fauriei Lophostemon confertus Syncarpia glomulifera	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
20 Werona Avenue (Park Avenue to Khartoum Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Acer buergerianum Nyssa sylvatica	None.	Install selected Council street lights.	Existing underground power.
21 Werona Avenue (Robert Street to Greengate Road)	Local Centre Transition Paving: Exposed aggregate concrete. Asphalt Paving to cycle path.	Proposed species: Acer buergerianum Nyssa sylvatica	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
22 Dumaresq Street (West of Radford Place)	Local Centre Transition Paving: Exposed aggregate concrete. Asphalt Paving to cycle path.	Proposed species: Elaeocarpus reticulatus Fraxinus americana	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Underground power recommended. If existing trees then bundle existing aerial cables.
23 Proposed Street (New)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Tristaniopsis laurina Waterhousia floribunda	None.	Install Ausgrid standard lighting.	Underground power.
4 'Standard' Street	Local Centre Standard Paving: Concrete path.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.
25 'Heritage' Street	Asphalt Paving to Heritage Conservation Areas.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.



Extent of Lindfield Local Centre and Street Hierarchy



1	Pacific Highway	1
2	Lindfield Avenue	1
3	Tryon Road	1
4	Havilah Lane	1
5	Milray Street	1
6	Balfour Street	1
7	Bent Lane	1
8	Bent Street	1
9	Drovers Way	1

10	Woodford Lane	19
11	Beaconsfield Parade	20
12	Tryon Place	21
13	Wolseley Road	22
14	Pacific Highway	23
15	Lindfield Avenue	
16	Lindfield Avenue	
17	Strickland Avenue	
18	Havilah Road	

9 Havilah Road
0 Kochia Lane
1 Drovers Way
2 'Standard' Street
3 'Heritage' Street

LINDFIELD	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
Pacific Highway (Highfield Road to Strickland Avenue)	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Platanus orientalis 'Cuneata' Tristaniopsis laurina	Seats / bins at 60-100m intervals and at bus stops.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Existing underground power.
2 Lindfield Avenue (Havilah Road to Russell Avenue)	Local Centre Core Paving: Precast concrete units. Brick Paving for vehicular areas to parking bays. Asphalt Paving to cycle path.	Trees planted in stratavault. Proposed species: Eucalyptus sideroxylon Pistacia chinensis Waterhousia floribunda 'Sweeper'	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners. Under-awning pedestrian lighting.	Existing underground power.
3 Tryon Road (Lindfield Avenue to Nelson Road)	Local Centre Core Paving: Precast concrete units.	Proposed species: Lophostemon confertus	Seats at 60-100m intervals.	Install selected Council street lights.	Underground power recommended If existing trees then bundle existing aerial cables.
4 Havilah Lane	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Elaeocarpus reticulatus Syzygium sp. (tree forms) Tristaniopsis laurina 'Luscious'	None.	Install selected Council street lights.	Existing underground power.
5 Milray Street (Kochia Lane to Tryon Road)	Local Centre Core Paving: Precast concrete units.	Proposed species: Lophostemon confertus Syncarpia glomulifera	None.	Install selected Council street lights.	Underground power recommended If existing tree then bundle existing aerial cables.
Balfour Street (Pacific Highway to Balfour Lane)	Local Centre Core Paving: Precast concrete units. Southern Verge (west of Bent Ln): Local Centre Transition Paving: Exposed aggregate concrete.	Trees planted in stratavault. Proposed species: Callicoma serratifolia Lophostemon confertus	Seats at key crossing and gathering areas.	Install selected Council street lights.	Existing underground power.
7 Bent Lane	Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: Glochidion ferdinandi var. ferdinandi Corymbia eximia	Bins at each end of lane.	Install selected Council street lights.	Existing underground power.
8 Bent Street (Bent Lane to Drovers Way)	Northern Verge: Local Centre Transition Paving: Exposed aggregate concrete. Southern Verge: Local Centre Core Paving: Precast concrete units.	Trees planted in stratavault. Proposed species: <i>Corymbia eximia</i> <i>Jacaranda mimosifolia</i> (not over paved areas)	Seats / bins at 60-100m intervals.	Install selected Council street lights.	Underground power recommended If existing trees then bundle existing aerial cables.
9 Drovers Way (Bent Street to Beaconsfield Parade)	Local Centre Core Paving: Precast concrete units. Brick Paving for vehicular areas to parking bays.	Trees planted in stratavault. Proposed species: Angophora floribunda Syncarpia glomulifera	Seats / bins at 60-100m intervals.	Install selected Council street lights.	Underground power.

LINDFIELD	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
10 Woodford Lane	Local Centre Core Paving: Precast concrete units. Brick Paving for vehicular areas to parking bays.	Trees planted in stratavault. Proposed species: Angophora floribunda Syncarpia glomulifera	Seats / bins at 60-100m intervals.	Install selected Council street lights.	Underground power.
1 Beaconsfield Parade (Pacific Highway to Drovers Way)	Northern Verge: Local Centre Core Paving: Precast concrete units. Southern Verge: Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Eucalyptus microcorys Eucalyptus sideroxylon	Seats / bins at key crossing and gathering areas.	Install selected Council street lights with arms for banners.	Underground power recommended. If existing trees then bundle existing aerial cables.
12 Tryon Place	Brick Paving for shared zones.	Trees planted in stratavault. Proposed species: Angophora floribunda Melaleuca styphelioides	Provide a variety of seating opportunities and use street furniture to direct vehicular movement.	Install selected Council street lights with arms for banners.	Not applicable.
3 Wolseley Road (Road Closure)	Brick Paving for shared zones.	Proposed species: Betula pendula Lophostemon confertus	Provide a variety of seating opportunities and use street furniture to direct vehicular movement.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
12 Pacific Highway (North of Highfield Road, South of Strickland Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: Pistacia chinensis Tristaniopsis laurina	Seats at 100m intervals and at bus stops. Bins at 100m intervals.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
15 Lindfield Avenue (North of Havilah Road)	Local Centre Transition Paving: Exposed aggregate concrete. Asphalt Paving to cycle path.	No new plantings.	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
16 Lindfield Avenue (South of Russell Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: <i>Elaeocarpus reticulatus</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
17 Strickland Avenue (Pacific Highway to Lindfield Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: <i>Melaleuca quinquenervia</i> <i>Syncarpia glomulifera</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
18 Havilah Road (Pacific Highway to Lindfield Avenue)	Local Centre Transition Paving: Exposed aggregate concrete.	None.	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Existing underground power.

LINDFIELD	PAVING	STREET TREE	FURNITURE	LIGHTING	POWER
19 Havilah Road (Lindfield Avenue to Nelson Road)	Local Centre Transition Paving: Exposed aggregate concrete. Southern Verge (west of Havilah Lane): Local Centre Core Paving: Precast concrete units.	Proposed species: Angophora costata Betula pendula Hymenosporum flavum Jacaranda mimosifolia Syncarpia glomulifera	Seats at 100m intervals.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Underground power west of Havilah Lane. Bundle aerial cables to remainder of street.
20 Kochia Lane	Local Centre Transition Paving: Exposed aggregate concrete.	None.	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
21 Drovers Way (Beaconsfield Parade to Gladstone Parade)	Local Centre Transition Paving: Exposed aggregate concrete.	Proposed species: <i>Nyssa sylvatica</i>	None.	Retain Ausgrid lighting. Supplement with new Ausgrid standard lighting if required.	Bundle aerial cables.
22 'Standard' Street	Local Centre Standard Paving: Concrete path.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.
(23) 'Heritage' Street	Asphalt Paving to Heritage Conservation Areas.	Retain existing trees. Infill planting with trees of same species as existing to retain and enhance street character.	None.	Retain Ausgrid lighting.	Bundle aerial cables.
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01 Paving

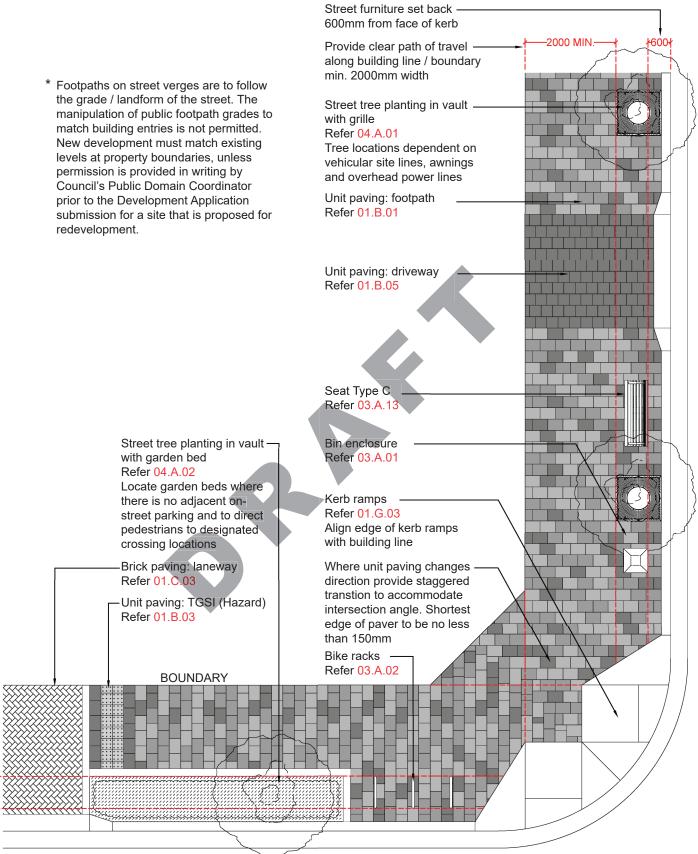
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► 01 Local Centre Core

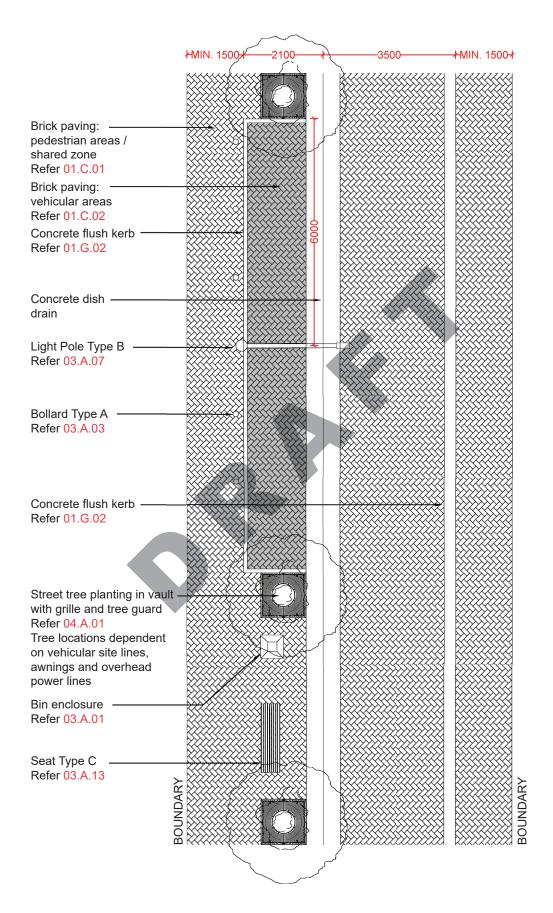
Plan 1:100



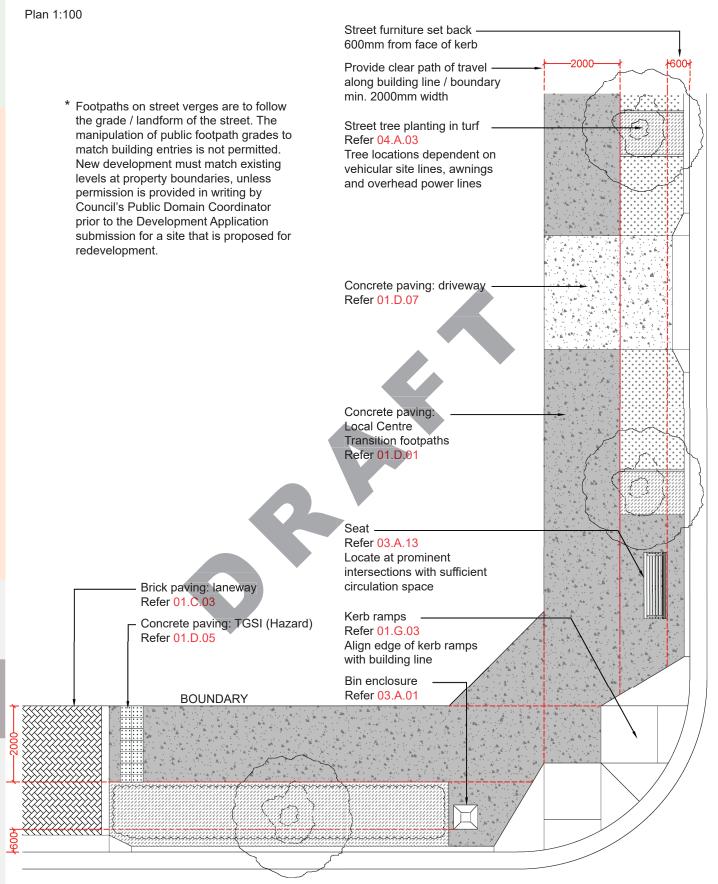
Notes

▶ 02 Local Centre Shared Zone

Plan 1:100



▶ 03 Local Centre Transition



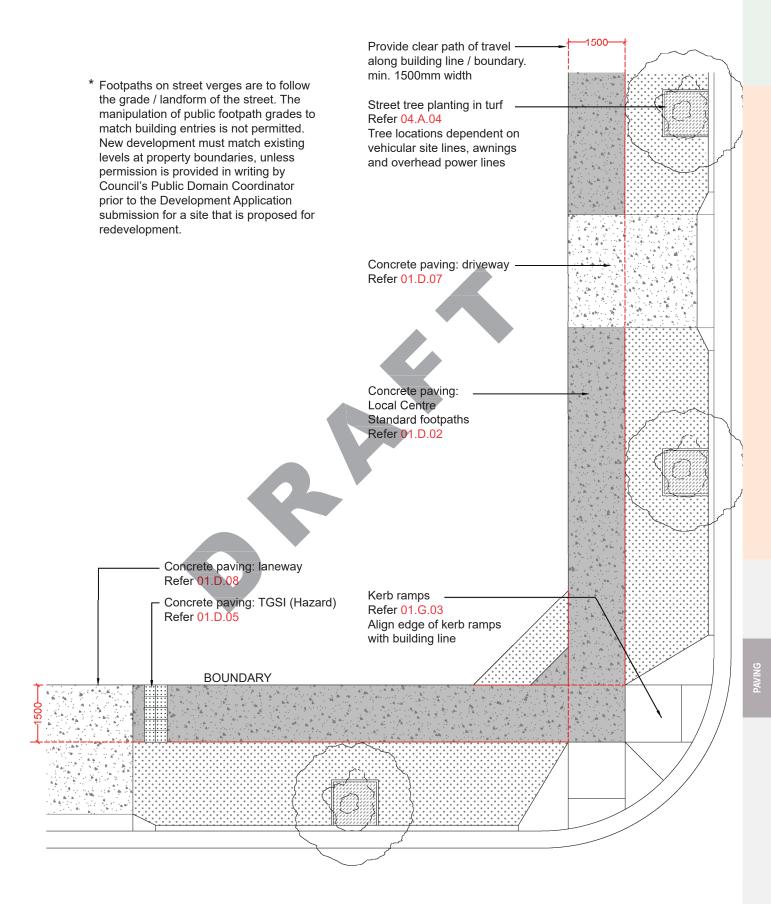
Notes

1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

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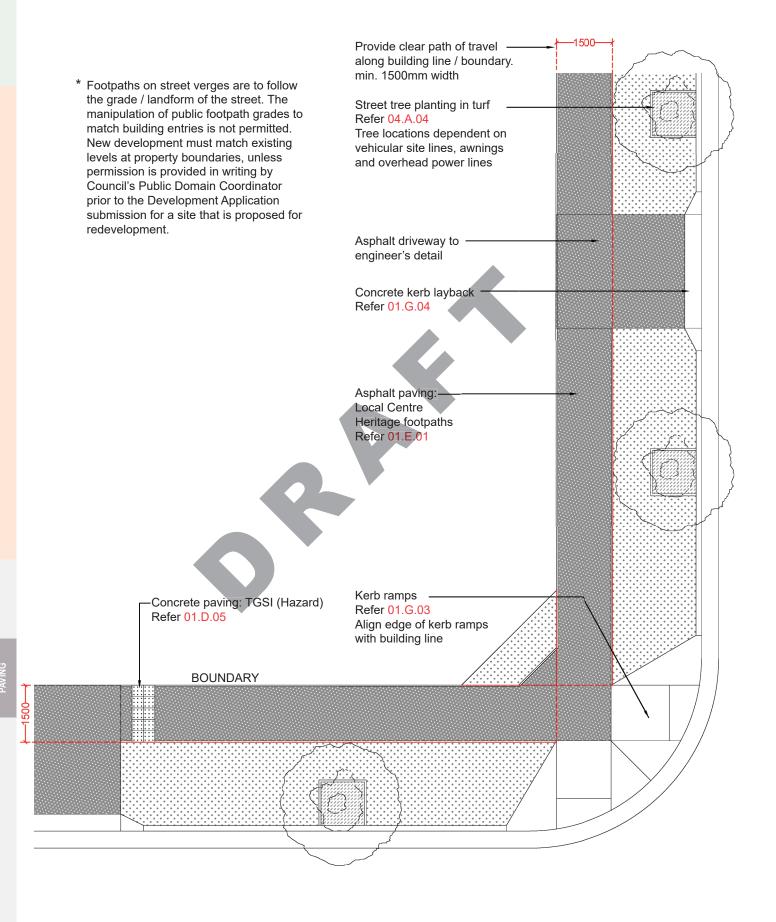
► 04 Local Centre Standard

Plan 1:100



► 05 Local Centre Heritage

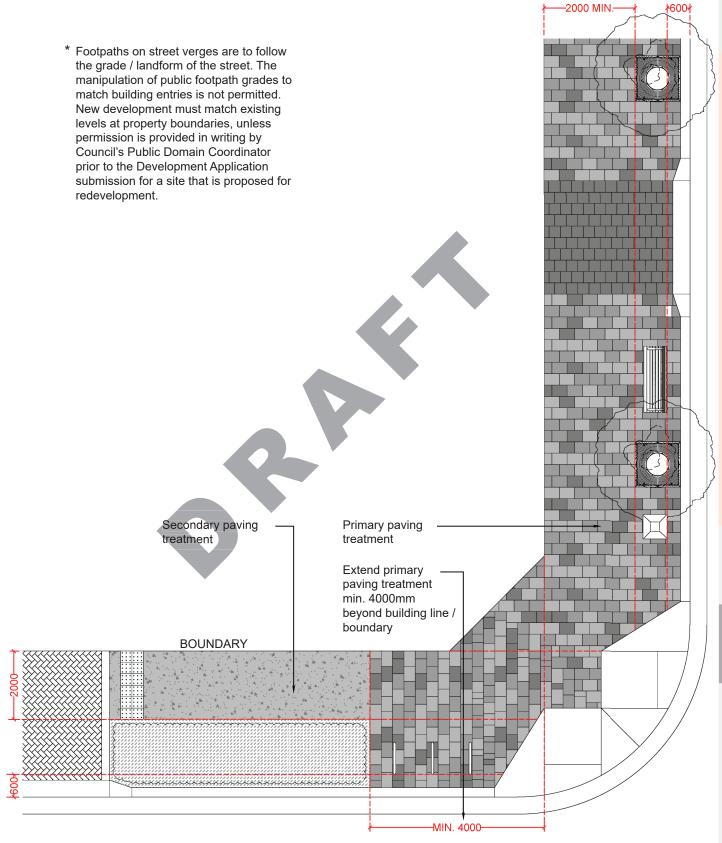
Plan 1:100



Notes

▶ 06 Junctions of Paving Treatments

Plan 1:100



► 07 Outdoor Dining Areas

Plan 1:100

1000 *600* * Outdoor dining will be Provide clear path of travel along permitted where its building line / boundary at all location, size and layout times. Minimum 2000mm width will not compromise public Kerbside outdoor dining set access, circulation, safety back 600mm from face of kerb of patrons, sightlines of where adjacent to parallel parking. motorists and other street * Increase set back to 1000mm activities. from face of kerb where adjacent to angle parking and wheelstops * Footpaths should be are not present sufficiently level to allow the safe use of furniture. Umbrellas may be permitted Custom or adjustable where shelter from awnings furniture may be required and trees is not available. where outdoor dining Refer to notes is proposed on sloping footpaths. Kerbside outdoor dining zone. Minimum 1000mm width Provide screen / barrier along kerbside edge of outdoor dining zone Outdoor dining zones set back Building side outdoor . dining zone. Minimum minimum: 1000mm width. Provide 1000mm from street N screen / barrier at each furniture 800 end of outdoor dining 2400mm from bus stops, zone. Refer to notes taxi stands, post boxes and accessible parking spaces Provide clear path Outdoor dining zones of travel at all times. set back minimum Minimum 2000mm 3000mm from width street corners and intersections BOUNDARY

-3000 MIN

Notes	

1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

2. The intended location of outdoor dining areas and any furniture or other items that form part of the outdoor dining area are to be detailed and photos provided in the application for Council's approval.

3. Outdoor Dining Furniture:

- is to be of a commercial grade, high quality and of adequate strength and durability to withstand external weather conditions and outdoor commercial usage.
- belonging to an establishment should be of a consistent style.
- is not to be permanently fixed and is to be removed from the footpath and stored safely outside of trading hours.
- is to be safe and not have any sharp edges or moving parts that could harm users or pedestrians.
- is to allow access for all users, including those who use wheelchairs or mobility aids.
- 4. Screens / Barriers:
 - are to have a minimum height of 600mm and a maximum height of 900mm. The length of the screen / barrier is to match the depth of the approved outdoor dining area.
 - are to be solid to the ground and in a colour that is contrasting with the pavement.
 - are to be securely weighted to the footpath without creating a trip hazard or impeding pedestrian movement (note: the use of bricks is not permitted) or secured to the footpath using a socket and sleeve system with flush mounted caps.
 - are not to be rope or chain barriers.
- 5. Umbrellas:
 - are to have a minimum clearance of 2.2m above the ground level and a minimum width of 1.2m.
 - are to be secured at all times, and removed in extremely windy conditions.
 - may be secured to the footpath using a socket and sleeve system with flush mounted caps.
 - must not obstruct views to road or parking signs.
- 6. Where heaters are proposed, details of type, location, and design are to be included in the application and approved by Council.
- 7. Planter boxes proposed for use within outdoor dining areas will be assessed on merit having regard to the footpath width, type and location.
- 8. Any signage and branding should not have an adverse impact on the appearance of the seating area or the streetscape. A-frame signs and other forms of advertising signage are not permitted.
- 9. For Heritage Items or in Heritage Conservation Areas (HCAs):
 - signage on umbrellas and screens / barriers must be of a design that is in sympathy with the character of the Heritage Item or HCA.
 - signage may only contain the name and / or logo of the business. No third party advertising or branding is permitted.
 - signage and branding should comprise of no more than one third of the surface area of an umbrella or screen.

▶ 08 Footpath Trading Areas

Plan 1:100

600 MIN * Footpath trading will Provide clear path of travel along be permitted where its building line / boundary at all location, size or layout will times. Minimum 2000mm width not compromise public Kerbside footpath trading zone set access, circulation, safety back 600mm from face of kerb of patrons, sightlines of where adjacent to parallel parking. motorists and other street * Increase set back to 1000mm activities. from face of kerb where adjacent * to angle parking and wheelstops Supervision of trading are not present activities / goods must be possible from the shop. Footpath trading zones set back minimum: Footpath trading activities • 1000mm from street must be located on a safe, furniture stable, hard surface that is 2400mm from bus stops, sufficiently level to provide taxi stands, post boxes and adequate stability for display accessible parking spaces stands and goods. Kerbside footpath trading zone. Maximum 1000mm width Building side footpath 3000 trading zone. Maximum 1000mm width Provide clear path Footpath trading of travel at all times. zones set back Minimum 2000mm minimum 3000mm width from street corners and intersections BOUNDARY

-3000 MIN

2000

1000

1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

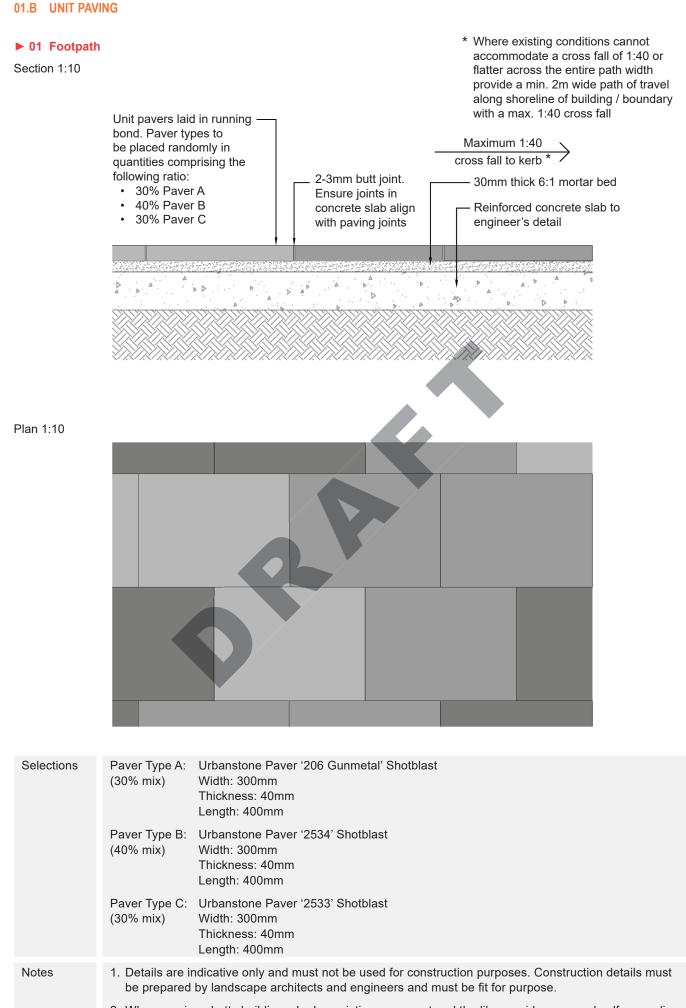
2. The intended location of the footpath trading activities and any furniture, display stands or other items that form part of the footpath trading area set up are to be detailed and photos provided in the application for Council's approval.

3. The goods on display are to normally be found for sale in the associated shop. The following types of merchandise must not be displayed on footpaths or public areas:

- Liquor
- Drugs
- Tobacco
- Unpackaged food (excluding whole fruits and vegetables)
- Gases (e.g. Liquid Petroleum Gas (LPG) canisters)
- Corrosives (e.g. car batteries)
- Oxidising Materials (e.g. paint stripper)
- Explosives (e.g. boat flares)
- Flammable liquids
- · White goods
- Note: This list is not exhaustive and Council reserves the right to order the removal of any merchandise considered to be a risk to the health and safety of the public and environment at any time.

4. Display of Goods:

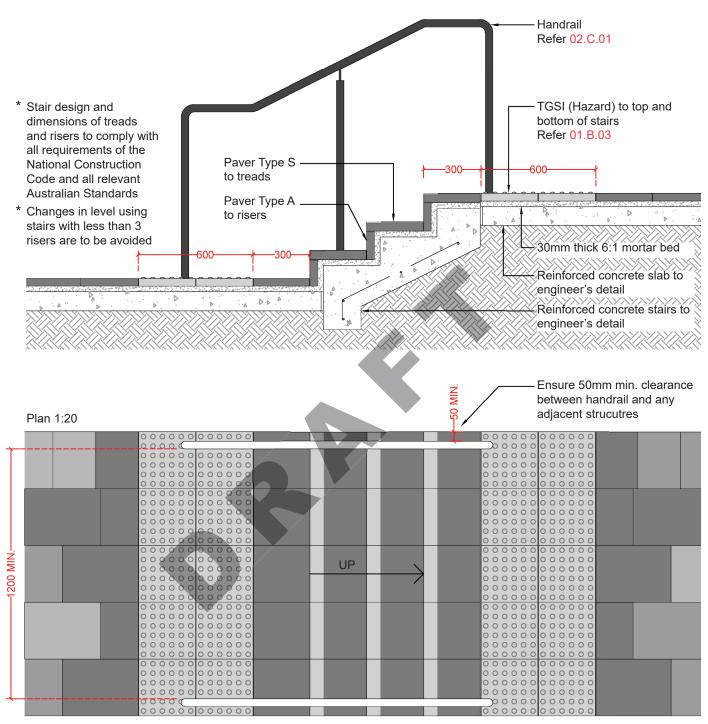
- The area is to be attractive when viewed in conjunction with the streetscape.
- The display must not adversely impact on adjacent premises, or pedestrian circulation.
- Food must be kept a minimum 750mm above the footpath.
- No food may be cooked, processed or prepared for consumption within the footpath area.
- All goods must be displayed on stands, racks or in containers above the level of the footpath, unless the goods are designed in a manner intended to allow placement on the ground.
- All goods must be adequately secured to the display stand on which they are presented.
- 4. Advertising and Signage:
 - The use of A-frame stands or other advertising signage boards are not permitted.
 - No advertising using amplification or persons calling to the public (spruiking) may be undertaken in association with footpath trading.
- 5. Display Stands:
 - Display stands are to be aesthetically pleasing, durable, well finished and solid to ground at the base to allow it to be detected by pedestrians who are vision impaired.
 - The materials and finishes of display stands must be weather resistant and prevent goods from being blown over in the wind.
 - Display stands are to have a minimum height of 600mm and a maximum height of 900mm.
 - Edges and corners must be finished so as not to cause any injury to pedestrians.
 - Footpath trading activities, including display stands are not to be attached to the footpath, street poles, or any other street furniture or infrastructure.
 - Display stands that have wheels must incorporate a locking device for safety and stability.
 - Footpath trading activities and display stands are not to damage the surface of the footpath.



Where paving abutts buildings, kerbs, existing pavement and the like provide approved self expanding joint filler.

► 02 Steps

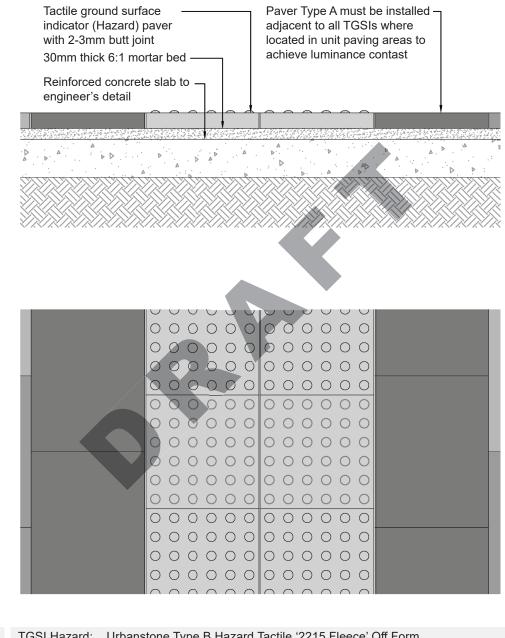
Section 1:20



Selections	Paver Type A:	Urbanstone Paver '206 Gunmetal' Shotblast Width: 300mm Thickness: 40mm Length: Varies
	Paver Type S:	Urbanstone Paver '2533' Shotblast Width: Varies dependant on tread length Thickness: 40mm Length: 300mm
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.	
	Where paving joint filler.	g abutts buildings, kerbs, existing pavement and the like provide approved self expanding

▶ 03 Tactile Ground Surface Indicators (Hazard)

Section 1:10



Selections	TGSI Hazard:	Urbanstone Type B Hazard Tactile '2215 Fleece' Off Form Width: 300mm Thickness: 40mm Length: 300mm
	Paver Type A:	Urbanstone Paver '206 Gunmetal' Shotblast Width: 300mm Thickness: 40mm Length: Varies
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details n be prepared by landscape architects and engineers and must be fit for purpose.	
	2. Where pavir joint filler.	ng abutts buildings, kerbs, existing pavement and the like provide approved self expanding

Plan 1:10

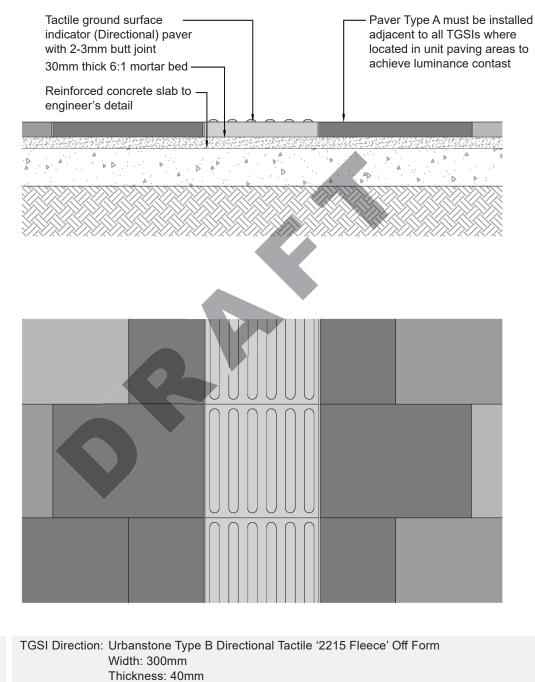
▶ 04 Tactile Ground Surface Indicators (Directional)

Section 1:10

Plan 1:10

Selections

Notes

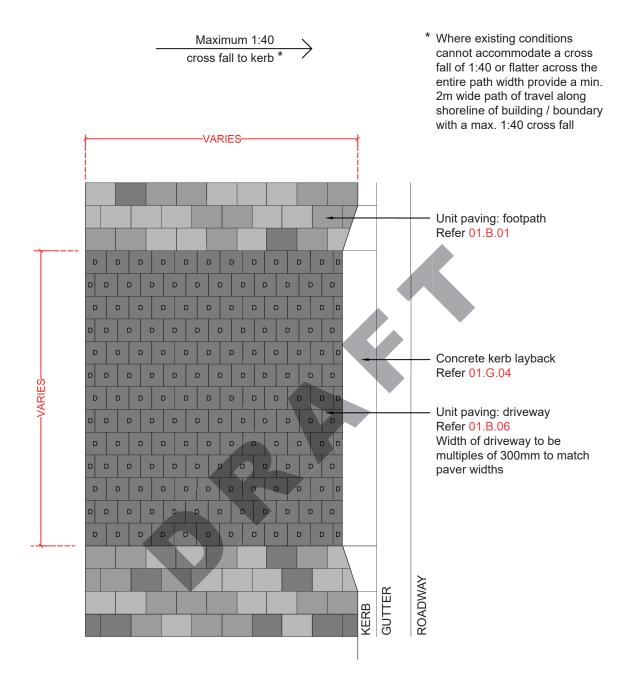


Thickness: 40mm Length: 300mm Paver Type A: Urbanstone Paver '206 Gunmetal' Shotblast Width: 300mm Thickness: 40mm Length: Varies 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

2. Where paving abutts buildings, kerbs, existing pavement and the like provide approved self expanding joint filler.

► 05 Driveway Module

Plan 1:50

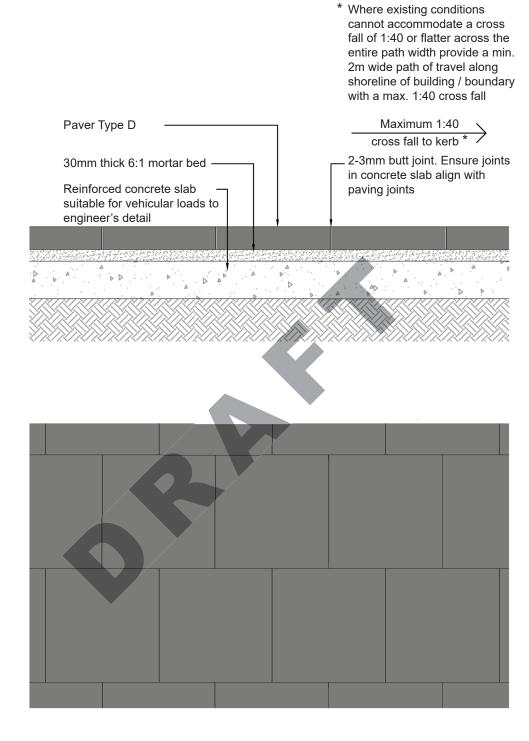


	Selections	Paver Type D:	Urbanstone Paver '206 Gunmetal' Shotblast
			Width: 300mm
			Thickness: 60mm
			Length: 300mm
	Notes	1 Details are in	adicative only and must not be used for construction purpos

▶ 06 Driveway

Section 1:10

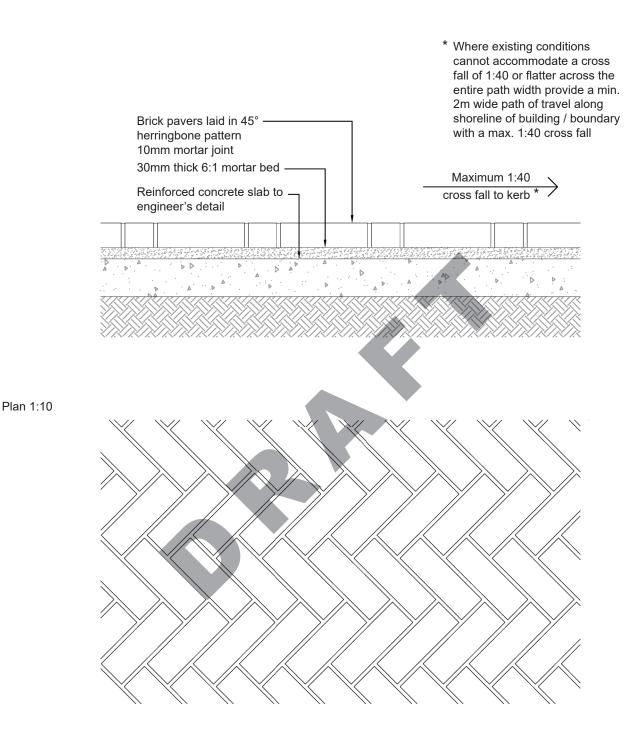
Plan 1:10



Selections	Paver Type D: Urbanstone Paver '206 Gunmetal' Shotblast Width: 300mm Thickness: 60mm Length: 300mm
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose. Where paving abutts buildings, kerbs, existing pavement and the like provide approved self expanding joint filler.

▶ 01 Pedestrian Areas / Shared Zones

Section 1:10

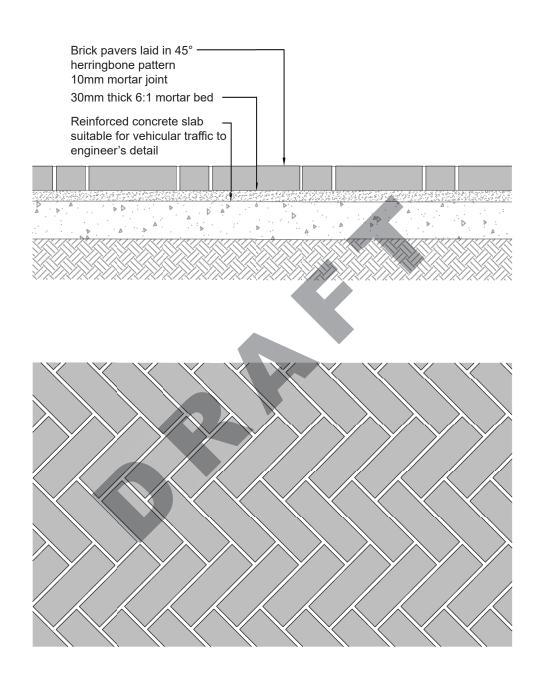


Selections	Brick Paver:	Austral Bricks 'Hamlet Paver Sepia' Width: 76mm Thickness: 65mm Length: 230mm Mortar: Standard white Joints: 10mm, Struck flush
Notes	be prepared	ndicative only and must not be used for construction purposes. Construction details must by landscape architects and engineers and must be fit for purpose. g abutts buildings, kerbs, existing pavement and the like provide approved self expanding

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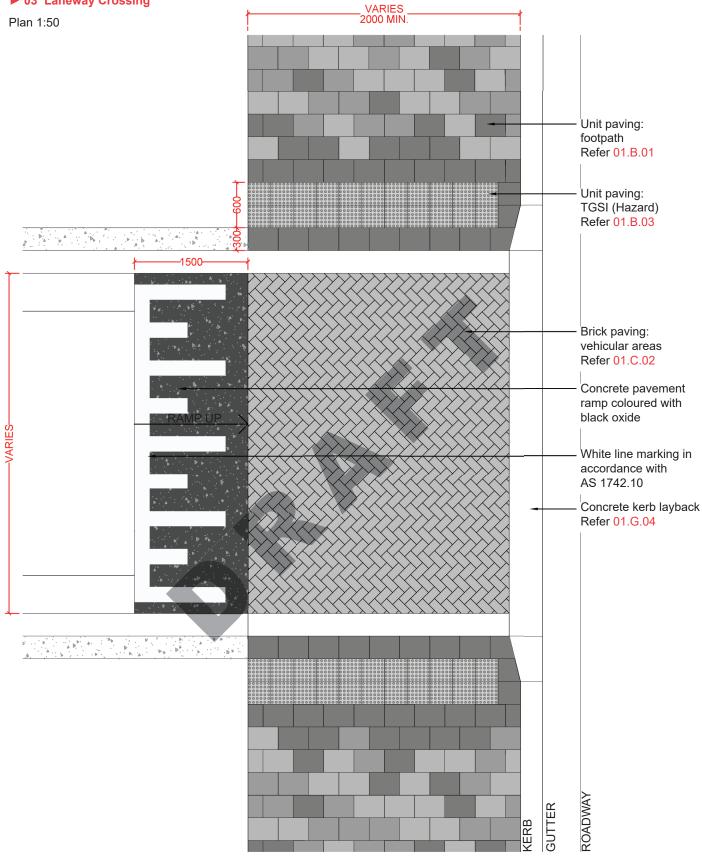
▶ 02 Vehicular Areas

Section 1:10



Selections	Brick Paver: Austral Bricks 'Hamlet Paver Bowral Blue' Width: 76mm Thickness: 65mm Length: 230mm Mortar: Standard white Joints: 10mm, Struck flush
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose. Where paving abutts buildings, kerbs, existing pavement and the like provide approved self expanding joint filler.





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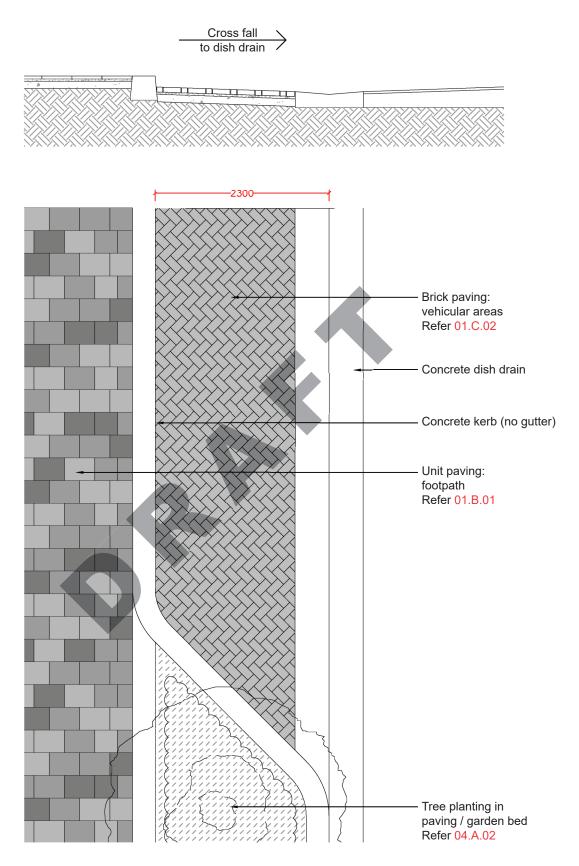
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Notes

▶ 04 Vehicle Parking Bay

Section 1:50

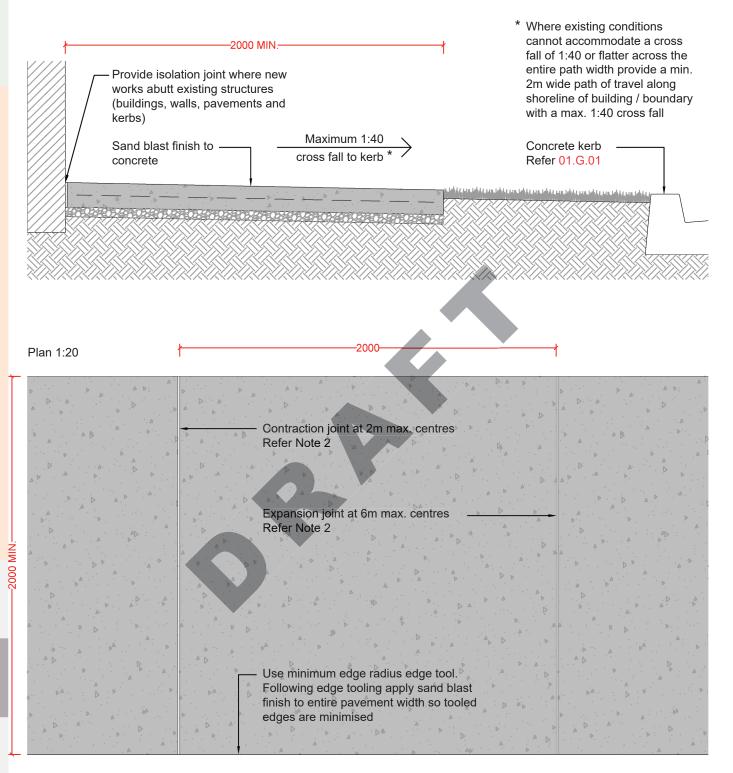
Plan 1:50



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▶ 01 Local Centre Transition Footpaths

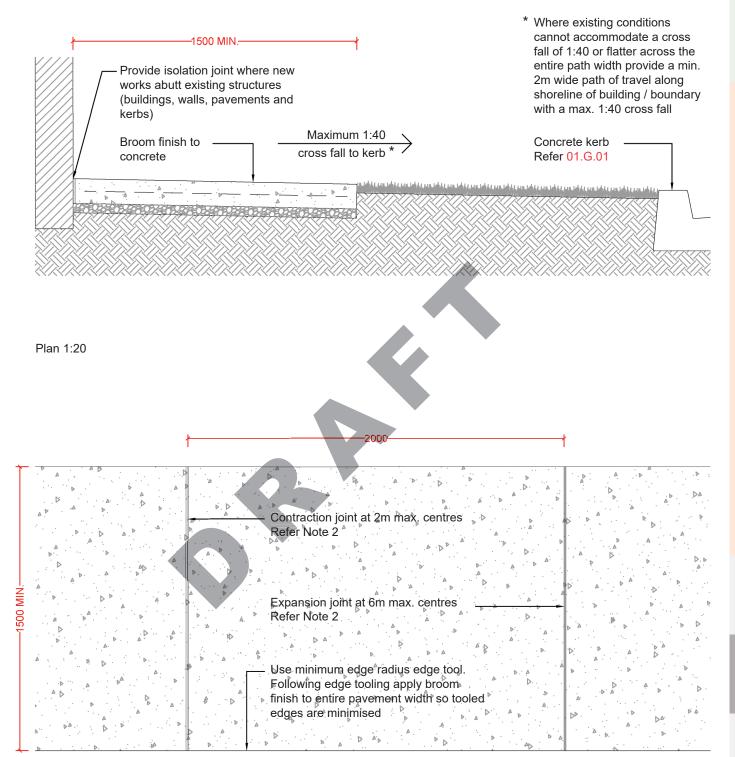
Section 1:20



Selections	Concrete:	Cement: Grey Aggregate: 7-10mm, Mix of 35% Basalt / 35% White Quartz / 30% River Gravel Finish: Sand blast	
Notes	4 Detelle and		
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must		
	be prepared	d by landscape architects and engineers and must be fit for purpose.	
	2 Refer Kuurir	ng-gai Council engineering standard drawing 2003-004 'Concrete Strip Footpath' for additional	
		equirements.	
	Suucturarie	quienens.	

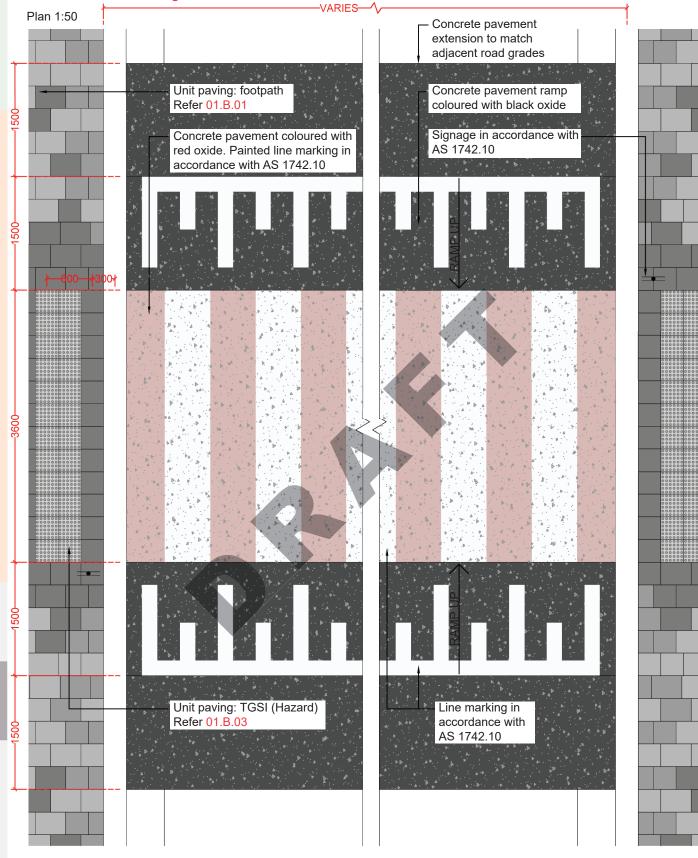
▶ 02 Local Centre Standard Footpaths

Section 1:20



Selections	Concrete:	Cement: Grey Aggregate: 7-10mm, Basalt Finish: Broom
Notes	be prepare 2. Refer Ku-ri	indicative only and must not be used for construction purposes. Construction details must d by landscape architects and engineers and must be fit for purpose. ng-gai Council engineering standard drawing 2003-004 'Concrete Strip Footpath' for additional equirements.

► 03 Pedestrian Crossing

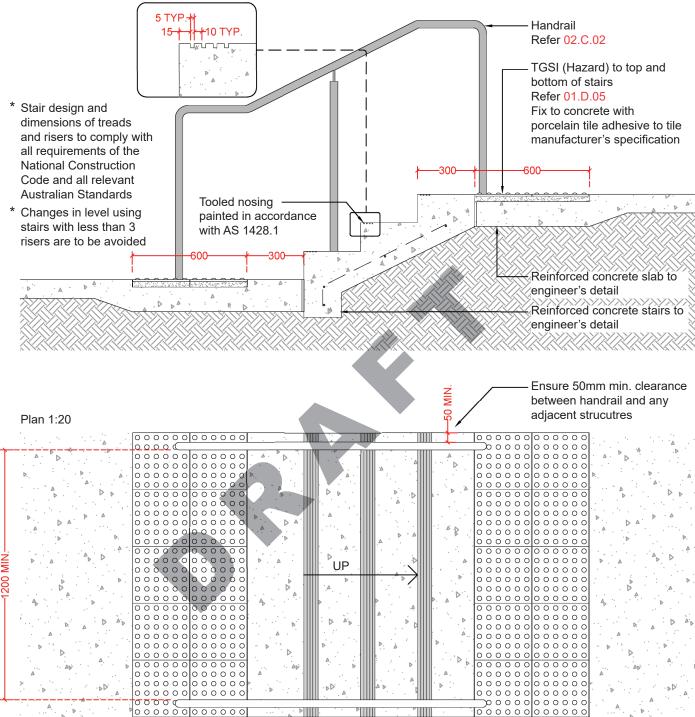


Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Refer Ku-ring-gai Council engineering standard drawing 92-028 'Pedestrian Crossing' for additional structural requirements.

▶ 04 Steps

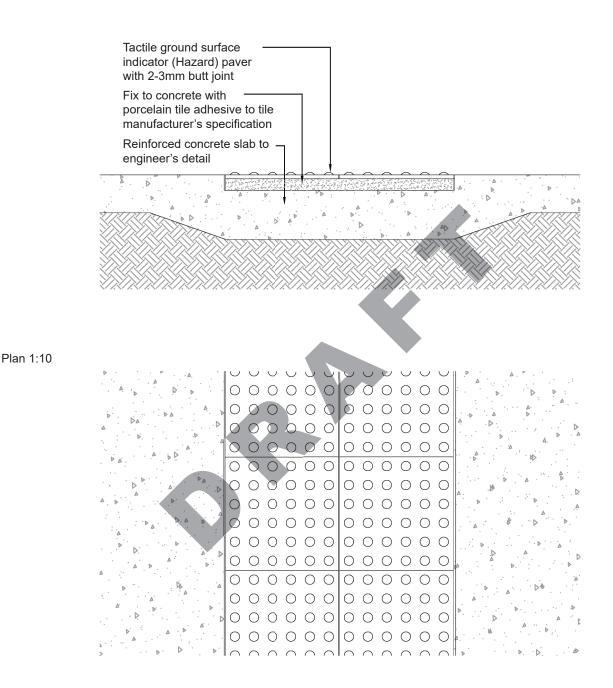




1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

▶ 05 Tactile Ground Surface Indicators (Hazard)

Section 1:10

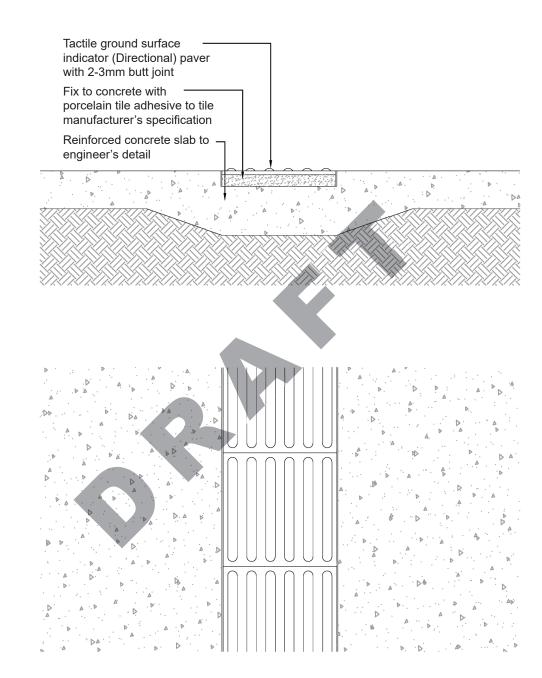


Selections	TGSI Hazard:	Seton Cobbletac Porcelain Tactile 'Ivory' Width: 300mm Thickness: 17mm
		Length: 300mm

 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

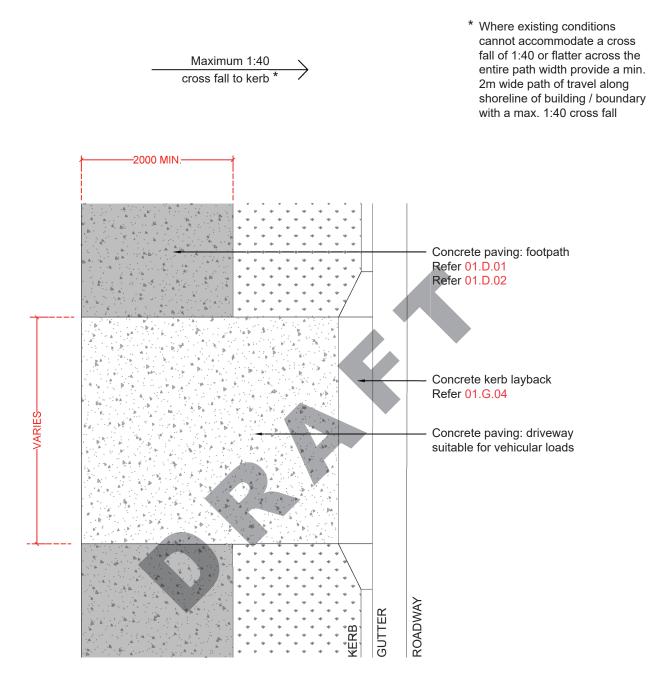
▶ 06 Tactile Ground Surface Indicators (Directional)

Section 1:10



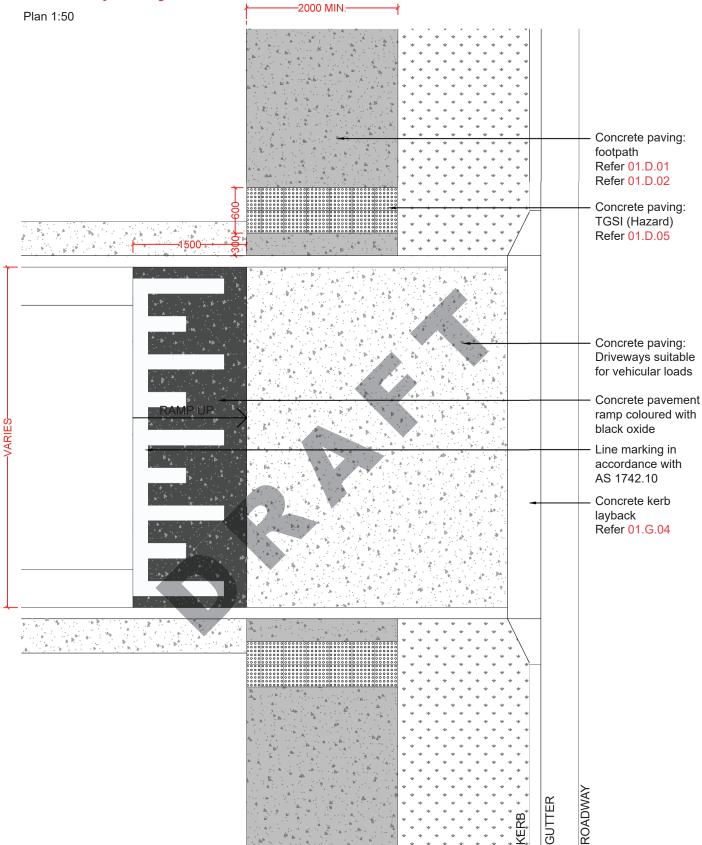
Selections	TGSI Direction: Seton Cobbletac Porcelain Tactile 'Ivory' Width: 300mm Thickness: 17mm Length: 300mm
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

► 07 Driveway



Selections	Concrete:	Cement: Grey Aggregate: 7-10mm, Basalt Finish: Broom
Notes		indicative only and must not be used for construction purposes. Construction details must d by landscape architects and engineers and must be fit for purpose.

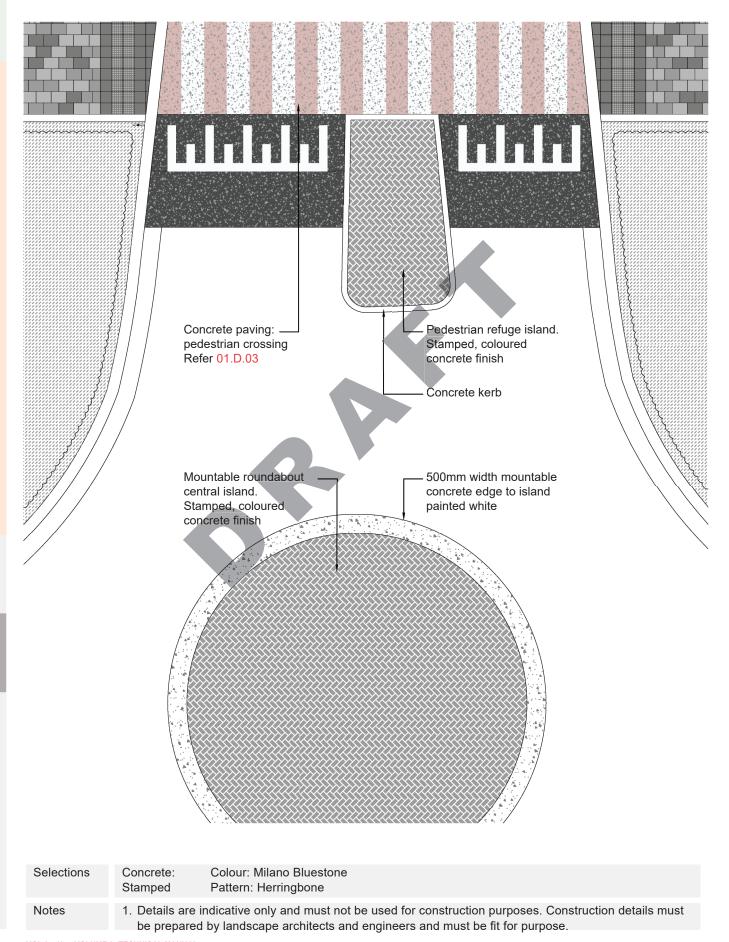




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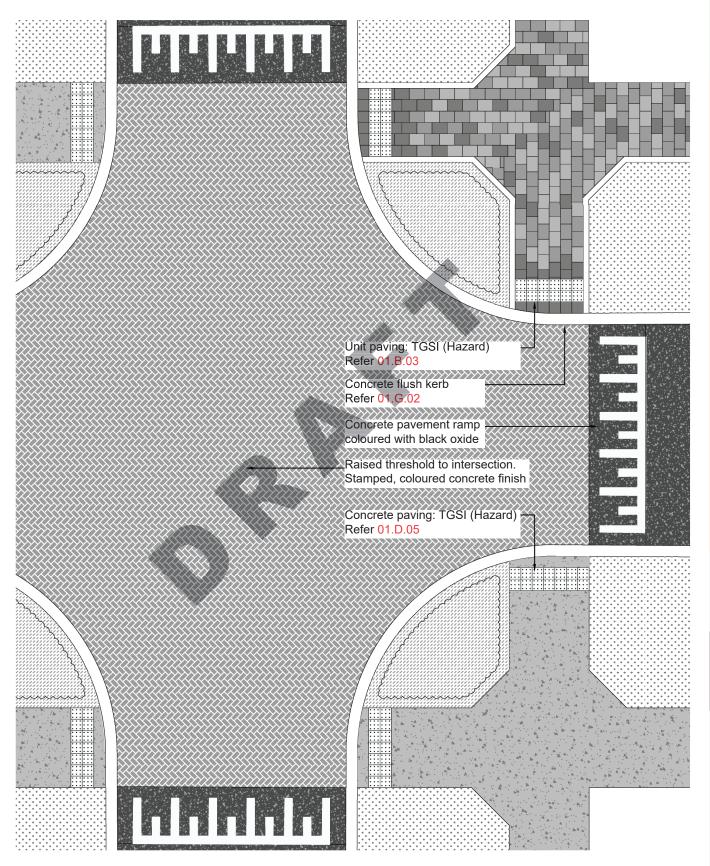
1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

► 09 Traffic Island



▶ 10 Raised Threshold to Intersection

Plan 1:100



Selections

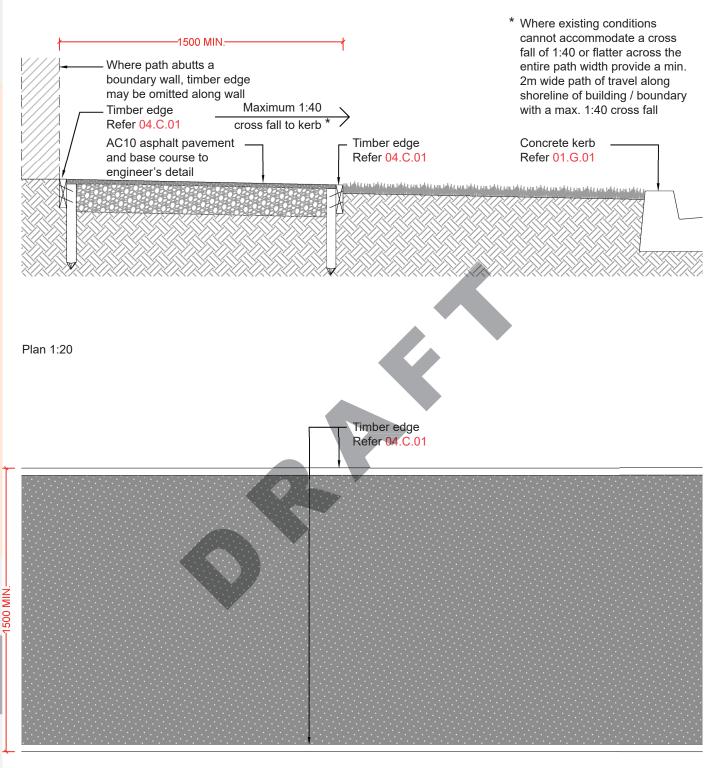
Concrete: Stamped Colour: Milano Bluestone Pattern: Herringbone

Notes

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► 01 Local Centre Heritage Footpaths

Section 1:20



S ING

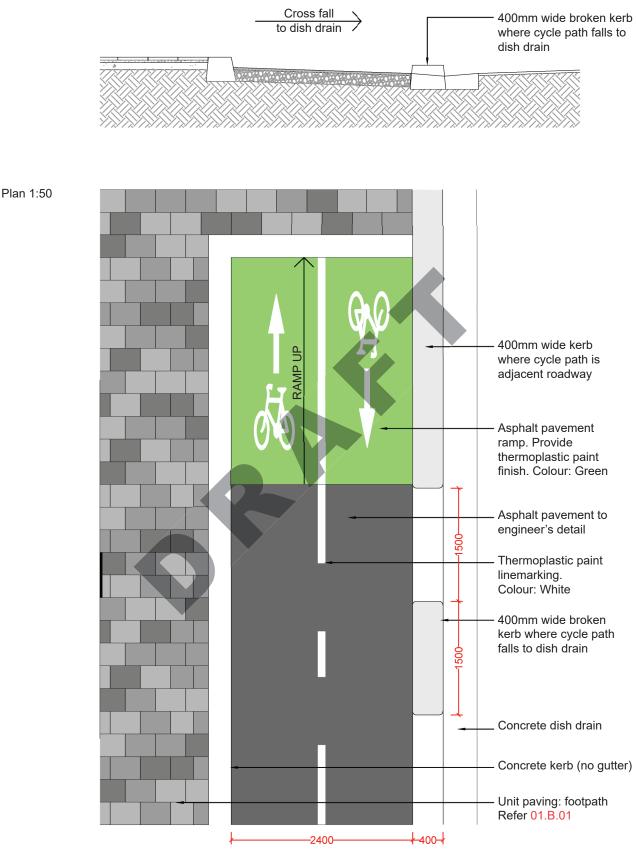
Notes

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► 02 Separated Cycle Path

Section 1:50



Notes

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► 01 Permeable Unit Paving

Section 1:10

• In Brick Paving Vehicular (Bowral Blue) areas use 'Charcoal'. In Brick Paving Pedestrian (Sepia) • areas use 'Peppercorn'. Paver Type P 30mm thick 2-5mm no fines -Subsoil drainage basalt aggregate bedding course 100mm thick 5-20mm no fines -Concrete flush kerb or aggregate base course similar edge restraint Geotextile layer ·

* Colour of paver to match surrounding

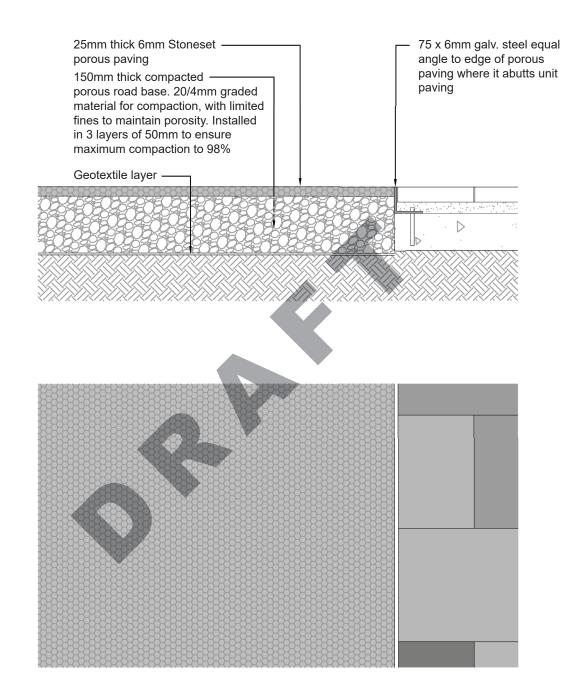
• In Concrete Unit Paving areas use 'Light Grey'.

paving treatments:

Selections	Paver Type P: Hydroston Paver 'H50 Flag' Width: 300mm Thickness: 50mm Length: 300mm Colour: Refer note above
NL (
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
	2. Install pavers and base courses to manufacturer's specifications.
	3. Where paving abutts buildings, kerbs, existing pavement and the like provide approved self expanding joint filler.

► 02 Permeable Resin Bound Paving

Section 1:10

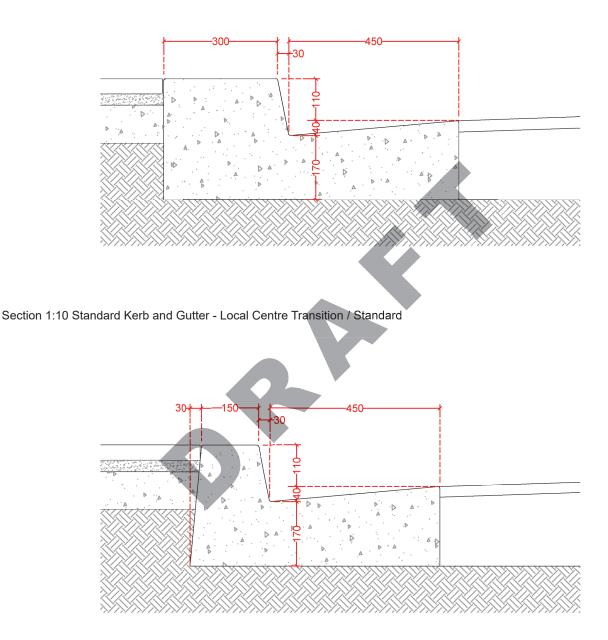


Selections	Porous Paving: Stoneset Resin Bound Paving Aggregate: 6mm Colour: Black Tan Ash
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose. Install pavers and base courses to manufacturer's specifications.

01.G KERBS AND EDGES

▶ 01 Concrete Kerb and Gutter

Section 1:10 Wide Kerb and Gutter - Local Centre Core

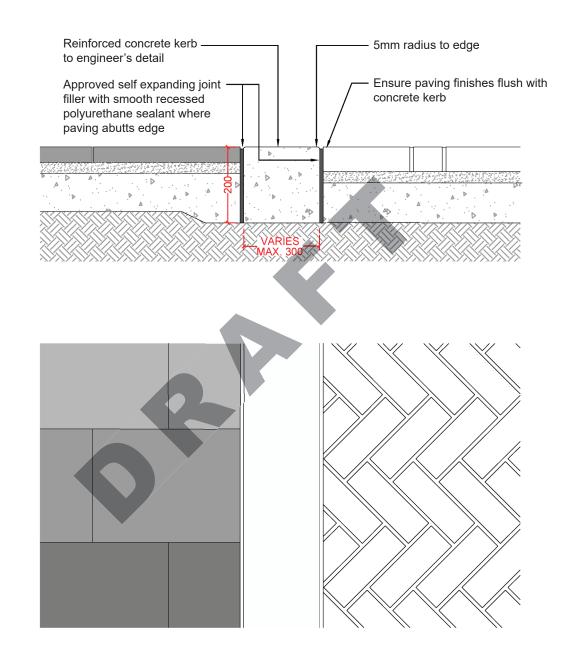


Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Refer Ku-ring-gai Council engineering standard drawing 2004-004 'Concrete Kerb and Gutter' for additional structural requirements.
- 3. All kerbs to be min. 25MPa concrete unless noted otherwise.
- 4. All kerbs to be steel trowel finished.
- 5. Expansion joints to be placed at maximum 6m intervals.

► 02 Concrete Kerb Flush

Section 1:10

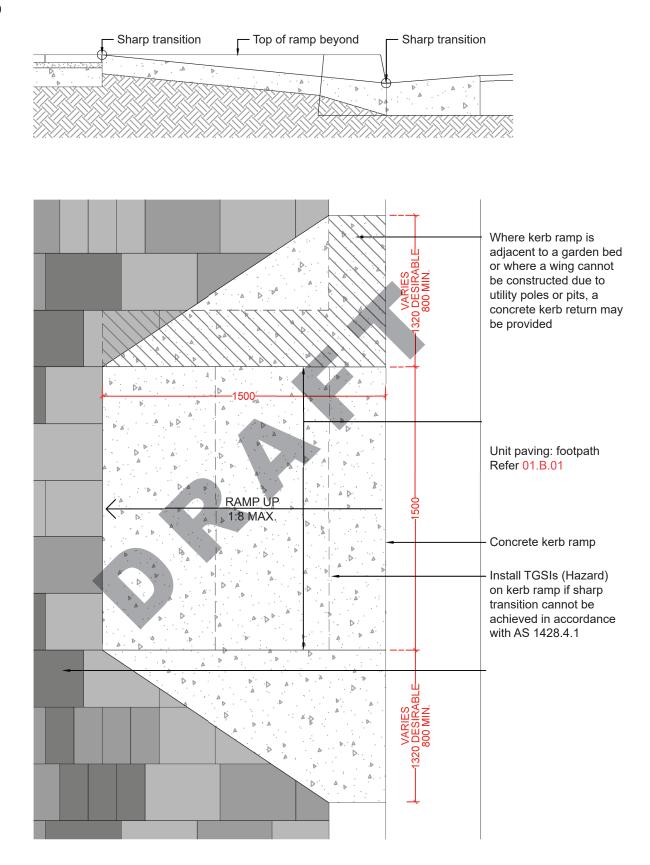


Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. All kerbs to be min. 25MPa concrete unless noted otherwise.
- 3. All flush kerbs to be broom finished.
- 4. Expansion joints to be placed at maximum 6m intervals.

► 03 Concrete Kerb Ramp

Section 1:20



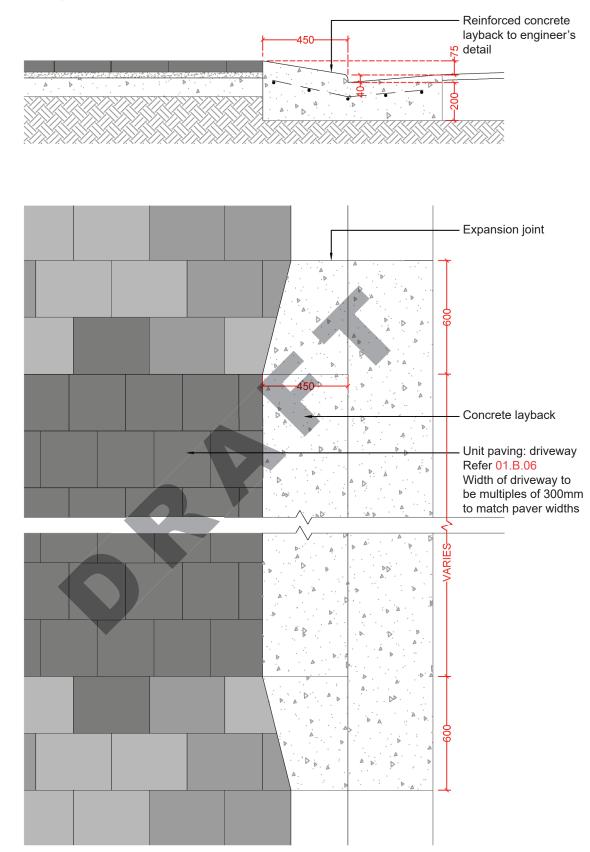
Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Refer Ku-ring-gai Council engineering standard drawing 90-081 'Standard Kerb Ramp' for additional structural requirements.

01.G KERBS AND EDGES

► 04 Concrete Kerb Layback

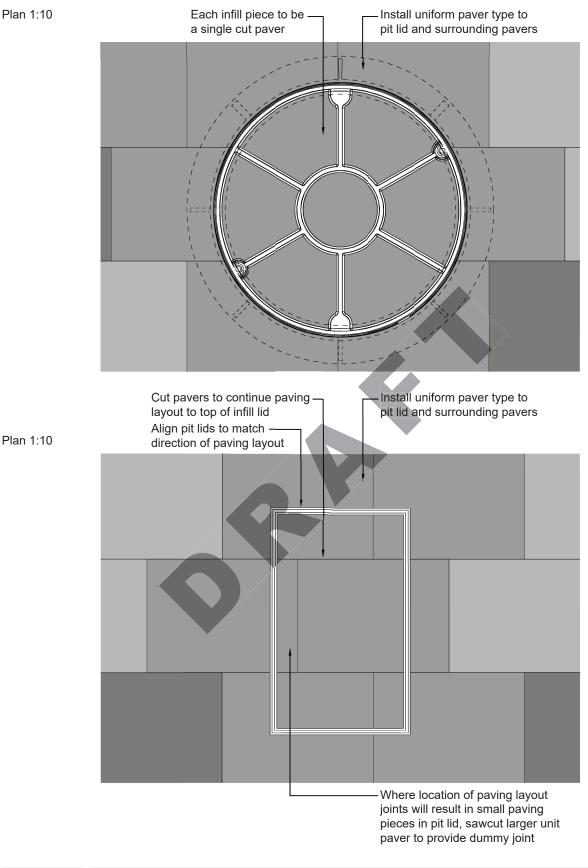
Section 1:20



- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Refer Ku-ring-gai Council engineering standard drawing 2004-004 'Concrete Kerb and Gutter' for additional structural requirements.

01.H SERVICES AND PITS

► 01 Infill Pit in Paving

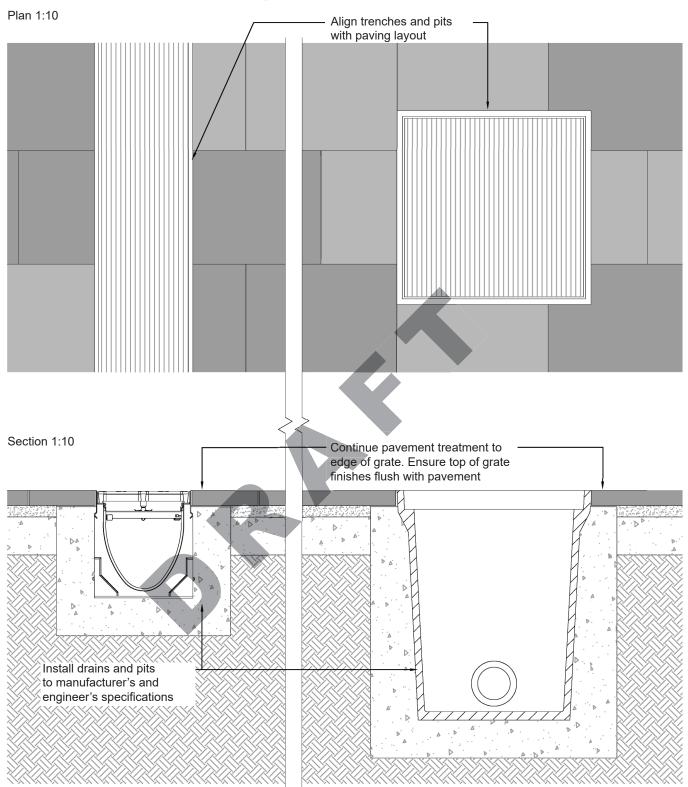


Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Install pits and lids to manufacturer's specifications and in accordance with all utility provider and authority requirements.
- 3. Provide 3mm mortared joints between pavers in infill lid.
- 4. Provide 3mm gap between pavers and edge of infill lid and fill with mortar.

01.H SERVICE S AND PITS

▶ 01 Grated Trench / Grated Pit Lid in Paving



Selections	Grated Trench: Durham CHP Ductile HeelGuard Trench Grate and Frame Size: To engineer's specification Grated Pit Lid: Weldlok DIG Slotted Ductile Grate
	Size: To engineer's specification
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
	2. Install pits and lids to manufacturer's specifications.

Walls and Fences

INCOMES I

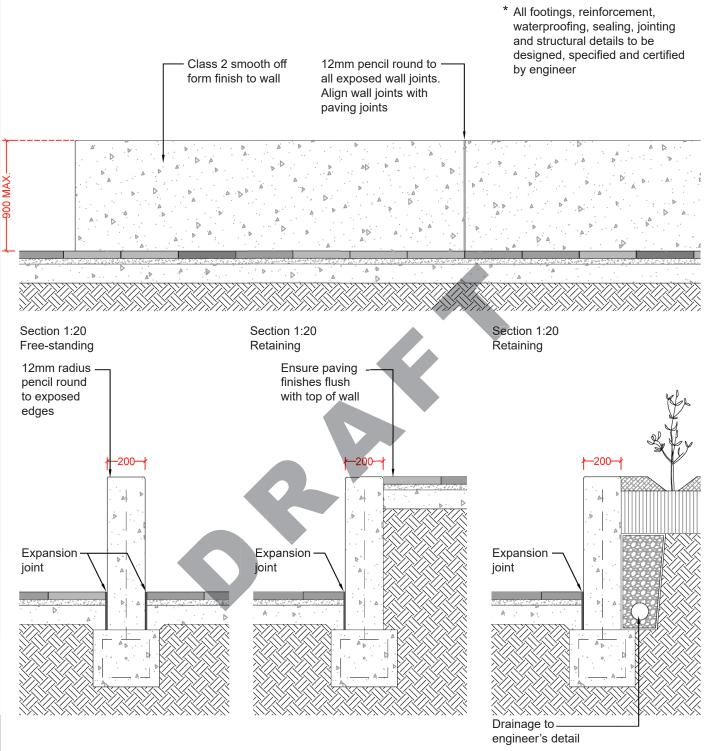
02 Walls and Fences

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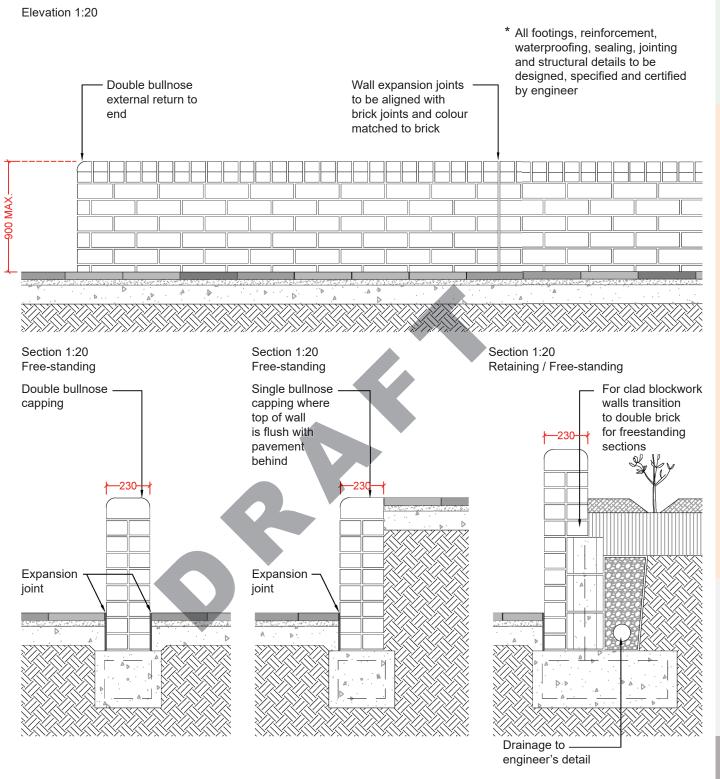
► 01 Concrete

Elevation 1:20



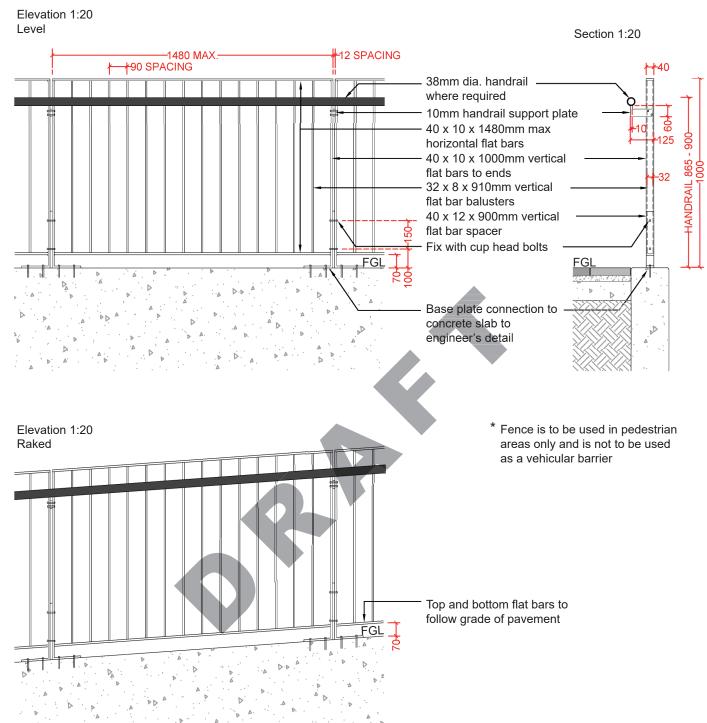
Selections	Concrete:	Cement: Grey Aggregate: 20mm Basalt Concrete Finish: Smooth Off form Secondary Finish: 'GraffStop Self Release' anti-graffiti coating to all visible faces
Notes		indicative only and must not be used for construction purposes. Construction details must

► 02 Brick



Selections	Brick: Austral Bricks Bowral 76 'Gertrudis Brown' Size: L 230mm x W 110mm x H 76mm Pattern: Stretcher bond Mortar: Standard white Joints: 10mm, Struck flush Finish: 'GraffStop Self Release' anti-graffiti coating to all visible faces
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

▶ 01 Balustrade / Fence: Local Centre Core

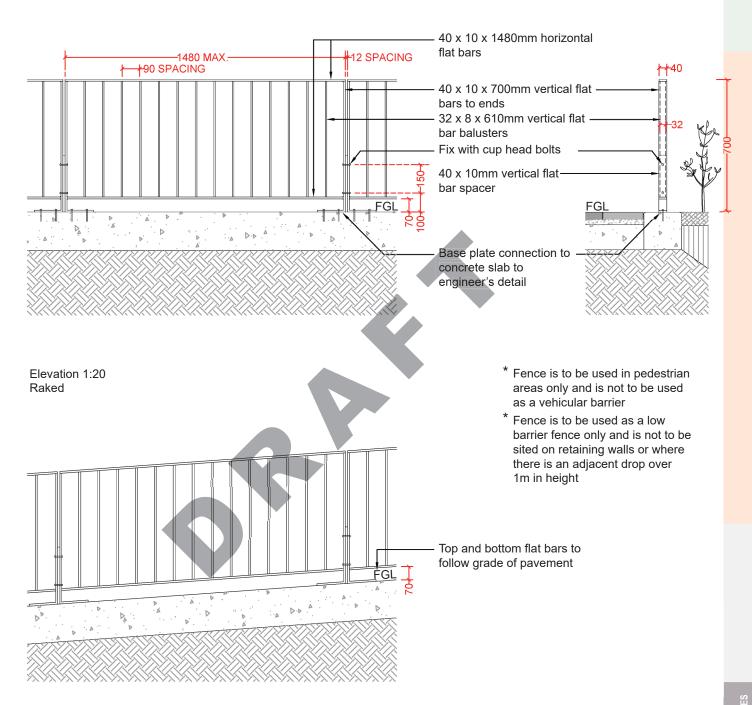


Selections	Balustrade:	Thickness: 10mm	
		Finish: Mild Steel, Electroplate Bronze 'Arcuturus'	
	Handrail:	Diameter: 38mm	
		Height: 865 min 900mm max. above FGL	
		Finish: Mild Steel, Electroplate Satin Pearl Black Nickel 'Procyon'	
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose. 		
Notoo			

▶ 02 Fence Low: Local Centre Core

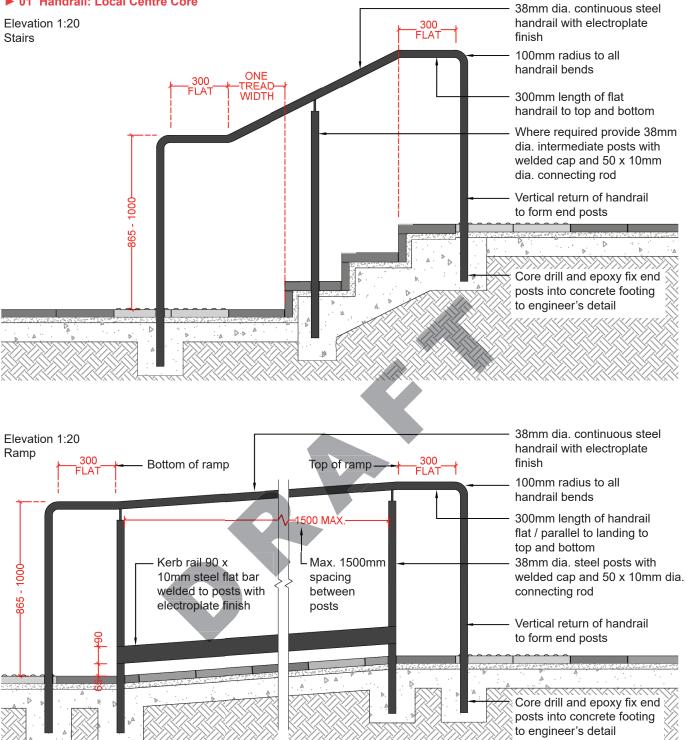
Elevation 1:20 Level

Section 1:20



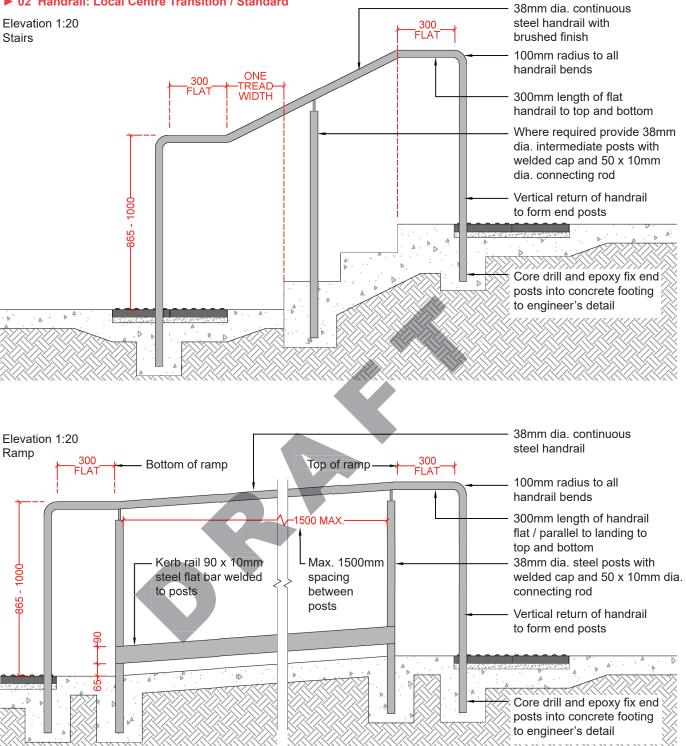
Selections	Balustrade:	Thickness: 10mm Finish: Mild Steel, Electroplate Bronze 'Arcuturus'
Notes	 Details are indicative only and must not be used for construction purposes. Construction detail be prepared by landscape architects and engineers and must be fit for purpose. 	

▶ 01 Handrail: Local Centre Core



Selections	Handrail:	Diameter: 38mm Height: 865 min 900mm max. above FGL Finish: Mild Steel, Electroplate Satin Pearl Black Nickel 'Procyon'
	Kerb rail:	Hieght: 90mm Thickness: 10mm Finish: Mild Steel, Electroplate Satin Pearl Black Nickel 'Procyon'
Notes	 Details are indicative only and must not be used for construction purposes. Constru- be prepared by landscape architects and engineers and must be fit for purpose. 	

▶ 02 Handrail: Local Centre Transition / Standard



Selections	Handrail:	Diameter: 38mm Height: 865 min 900mm max. above FGL Finish: 316 Stainless Steel, Brushed Finish
	Kerb rail:	Hieght: 90mm Thickness: 10mm Finish: 316 Stainless Steel, Brushed Finish
Notes	 Details are indicative only and must not be used for construction purposes. Construction details mu be prepared by landscape architects and engineers and must be fit for purpose. 	

Furniture and Fixtures

111

03 Furniture and Fixtures

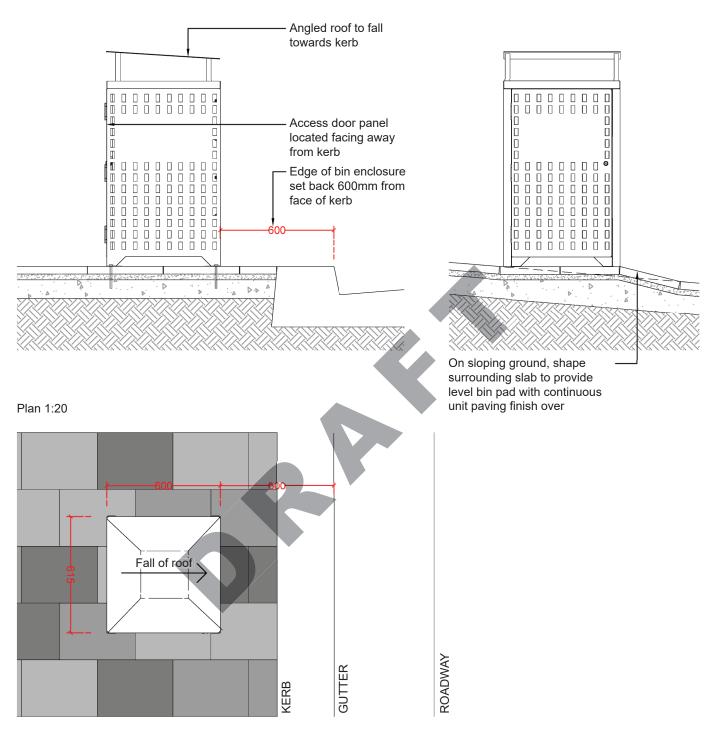
03.A Furniture and Fixtures.....70

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04 E	Bollard B: Concrete7	'3
05 E	3ubbler7	'4
06 L	ight A: Pedestrian7	'5
07 L	ight B: Street7	'6
08 L	ight C: Street with Banner Arms	'7
09 F	Planter A: Fibreclay7	'8
10 F	Planter B: Concrete Barrier7	'9
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► 01 Bin Enclosure

Section 1:20

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Elevation 1:20
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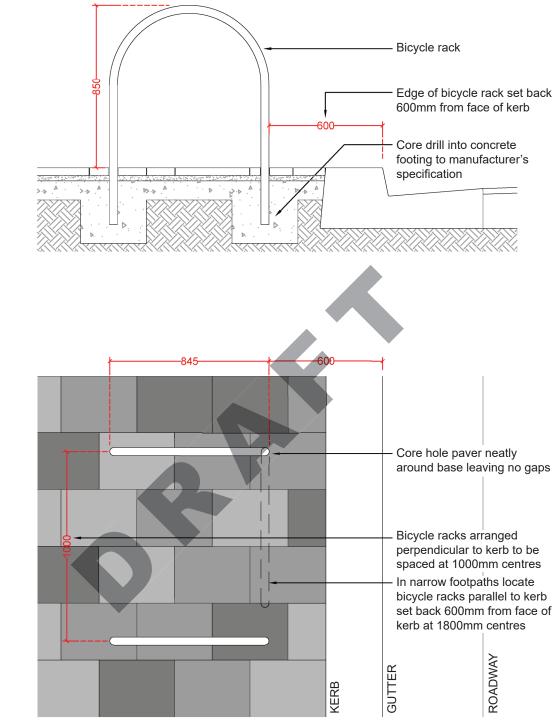


Selections	Bin Enclosure: Astra Street Furniture 46-ABELCST12-SS 'Athens 120L' Size: W 615mm x L 600mm x H 1180mm Frame: SS 304, Brushed Roof: Angled, SS 304, Brushed Door / Rear panel: SS 304 Powdercoat Vivica Charcoal with anti-graffiti coating Mounting: Surface fixed to manufacturer's specification
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must
	be prepared by landscape architects and engineers and must be fit for purpose.

▶ 02 Bicycle Rack

Section 1:20

Plan 1:20



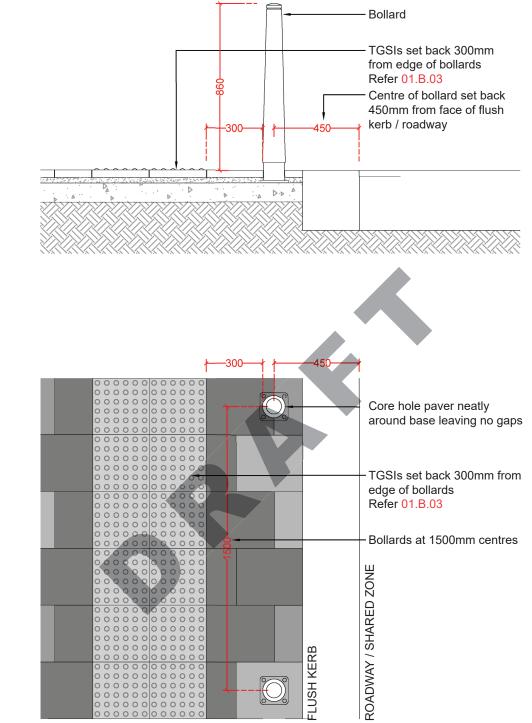
Selections	Bicycle Rack:	Street Furniture Australia BST03 'Semi Hoop'
		Size: W 120mm x L 850mm x H 845mm
		Pipe: SS 304 Brushed
		Mounting: Core drill to concrete footing to manufacturer's specification
Notes	1 Details are in	dicative only and must not be used for construction purposes. Construction details must
110100		by landscape architects and engineers and must be fit for purpose.

IRNITURE

► 03 Bollard A: Aluminium

Section 1:20

Plan 1:20



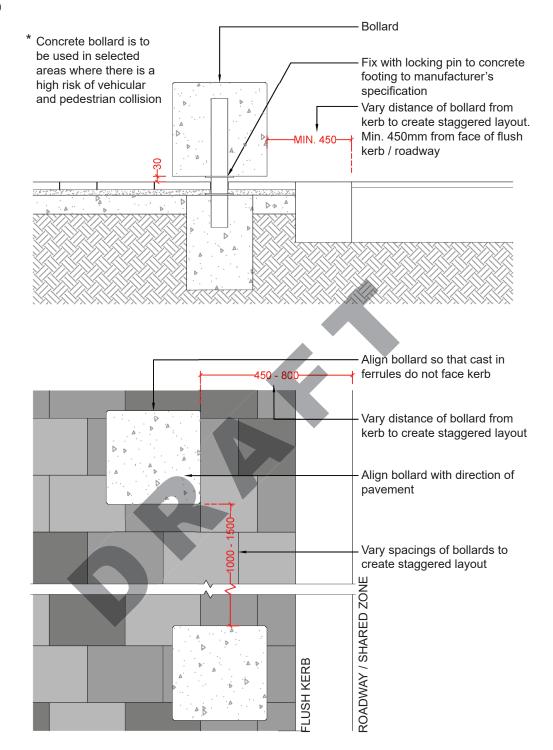
Selections	Bollard: Aluminium	Burdens Australia MMCite SI105 'Isac' Size: H 860mm x DIA. 120mm (at base) Body: Cast Aluminium Finish: Powdercoat Interpon Charcoal GM019A with anti-graffiti coating
		Mounting: Sub-surface fixed to concrete slab to manufacturer's specification
Notes	1. Details are i	ndicative only and must not be used for construction purposes. Construction details must

 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

► 04 Bollard B: Concrete

Section 1:20

Plan 1:20



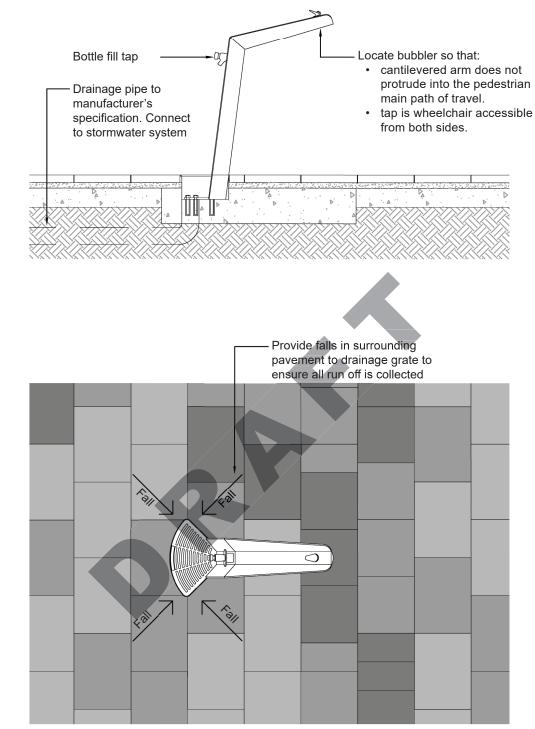
FURNITUR AND FIXTU

Selections	Bollard: Concrete	Leda Security Precast Concrete Cube PCL55FI Size: W 500mm x L 500mm x H 500mm Finish: Off-white etched finish Mounting: Sub-surface fixed to concrete footing to manufacturer's specification
Notes		e indicative only and must not be used for construction purposes. Construction details must ad by landscape architects and engineers and must be fit for purpose.

▶ 05 Bubbler



Plan 1:20

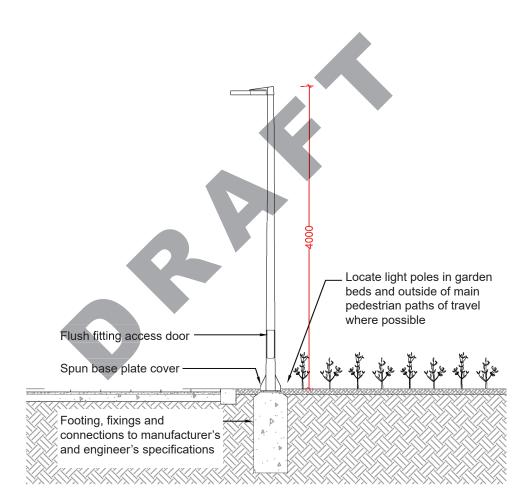


Selections	Bubbler:	Botton and Gardiner PDF.316SS.BT 'Prospect Drinking Fountain with Bottle Tap' Size: W 405mm x L 940mm x H 880mm Frame: 316 SS Drainage Grate: Cast Aluminium, Brushed finish Mounting: Sub-surface fixed to concrete footing to manufacturer's specification
Notes		indicative only and must not be used for construction purposes. Construction details must I by landscape architects and engineers and must be fit for purpose.

03.A FURNITURE AND FIXTURES

▶ 06 Light A: Pedestrian

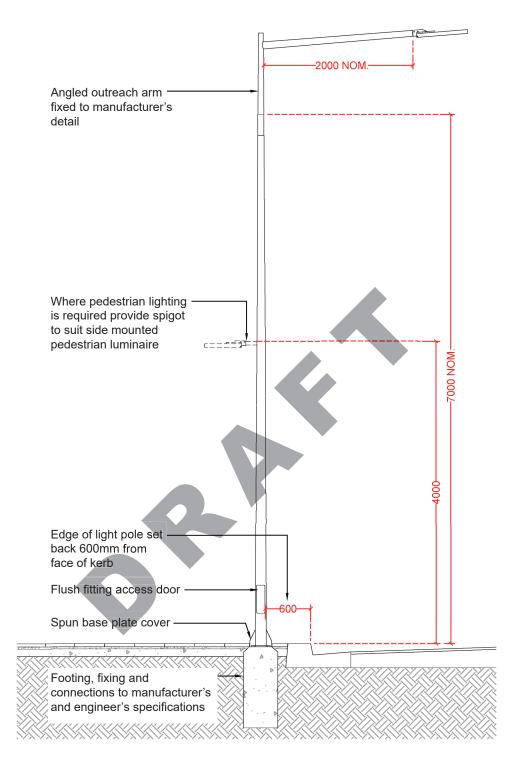
Section 1:50



Selections	Luminaire: Pedestrian	WE-EF VFL530 LED Direct Mount Frame Finish: RAL 9007 Grey Aluminium
	Pole:	GM Poles BR Range Tapered galv. steel pole Height: 4m (to be confirmed by lighting designer) Finish: Powdercoat RAL 9007 Grey Aluminium with anti-graffiti coating Mounting: Base plate fixing to footing to manufacturer's specification
Notes		indicative only and must not be used for construction purposes. Construction details must d by landscape architects and engineers and must be fit for purpose.

▶ 07 Light B: Street

Section 1:50

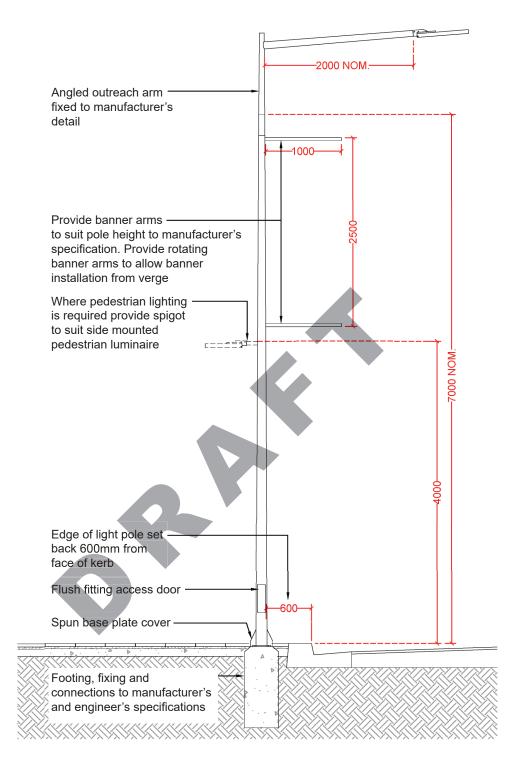


Selections Luminaire: WE-EF VFL540-SE LED Side Mount Street Frame Finish: RAL 9007 Grey Aluminium Luminaire: WE-EF VFL530-SE LED Side Mount Pedestrian Frame Finish: RAL 9007 Grey Aluminium Pole: GM Poles BR Range Tapered galy steel pole			
PedestrianFrame Finish: RAL 9007 Grey AluminiumPole:GM Poles	Selections		
Height: 7m (to be confirmed by lighting designer) Finish: Powdercoat RAL 9007 Grey Aluminium with anti-graffiti coating Mounting: Base plate fixing to footing to manufacturer's specification		Pole:	BR Range Tapered galv. steel pole Height: 7m (to be confirmed by lighting designer) Finish: Powdercoat RAL 9007 Grey Aluminium with anti-graffiti coating
Notes 1. Details are indicative only and must not be used for construction purposes. Construction details must	Notes	1. Details are	indicative only and must not be used for construction purposes. Construction details must

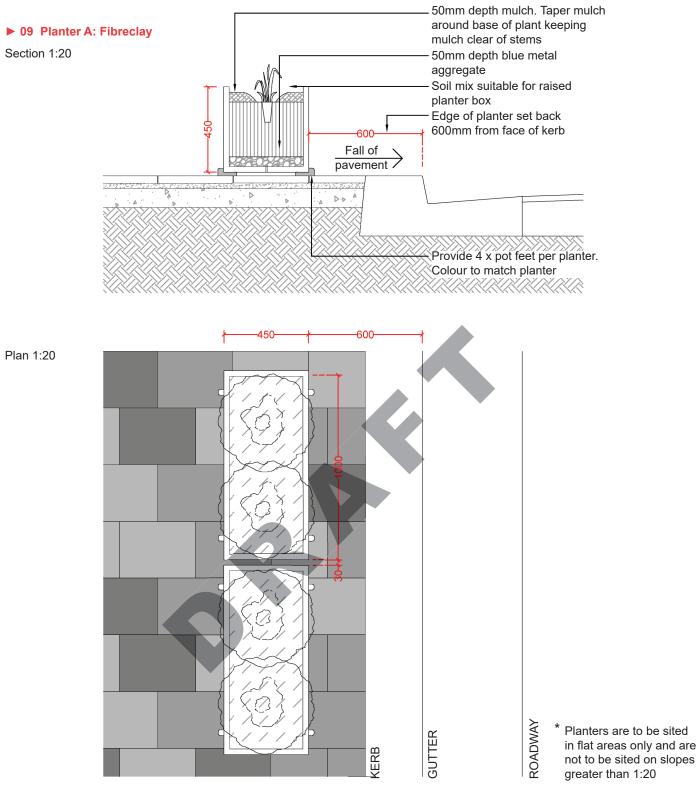
 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

▶ 08 Light C: Street with Banner Arms

Section 1:50



Selections	Luminaire: Street	WE-EF VFL540-SE LED Side Mount Frame Finish: RAL 9007 Grey Aluminium
	Luminaire: Pedestrian	WE-EF VFL530-SE LED Side Mount Frame Finish: RAL 9007 Grey Aluminium
	Pole:	GM Poles BR Range Tapered galv. steel pole with banner arms Height: 7m (to be confirmed by lighting designer) Finish: Powdercoat RAL 9007 Grey Aluminium with anti-graffiti coating Mounting: Base plate fixing to footing to manufacturer's specification
Notes		indicative only and must not be used for construction purposes. Construction details must I by landscape architects and engineers and must be fit for purpose.

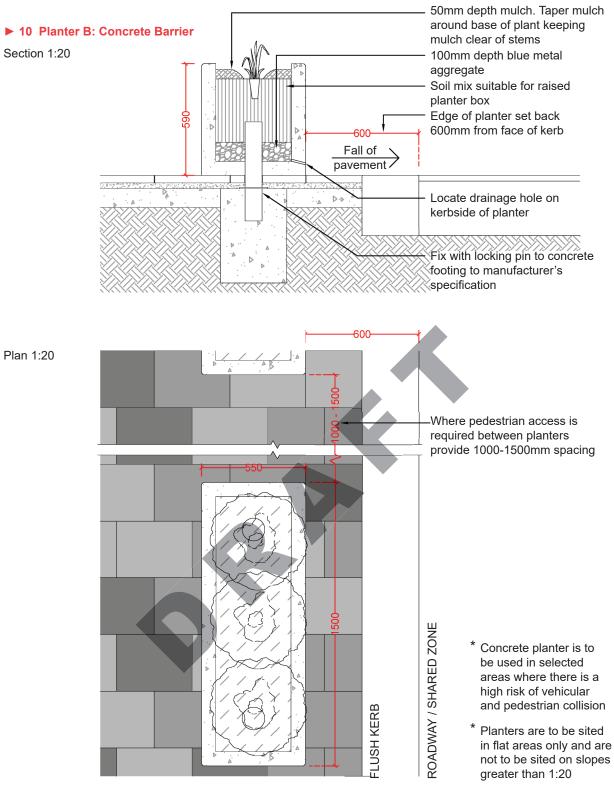


Selections	Bollard: Concrete	Northcote Urbanlite Mason Fibreclay Trough Size: W 450mm x L 1000mm x H 450mm Colour: Lead Mounting: 4 x 100mm pot feet
Notes		ndicative only and must not be used for construction purposes. Construction details must by landscape architects and engineers and must be fit for purpose.

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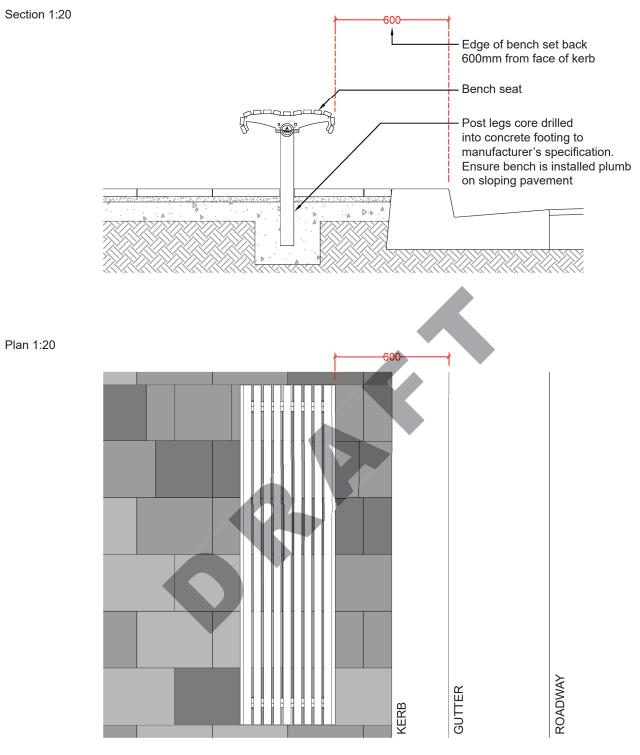
Selections

Notes



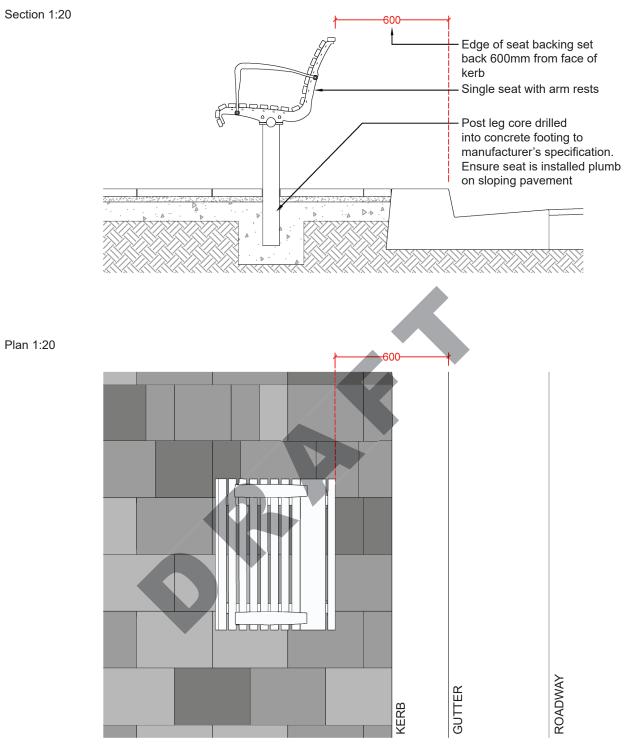
Bollard: Concrete	Leda Security Precast Planter Box PPB515FI Size: W 550mm x L 1500mm x H 590mm Finish: Off-white etched finish Mounting: Sub-surface fixed to concrete footing to manufacturer's specification	A F
	ndicative only and must not be used for construction purposes. Construction details must by landscape architects and engineers and must be fit for purpose.	

▶ 11 Seat A: Bench



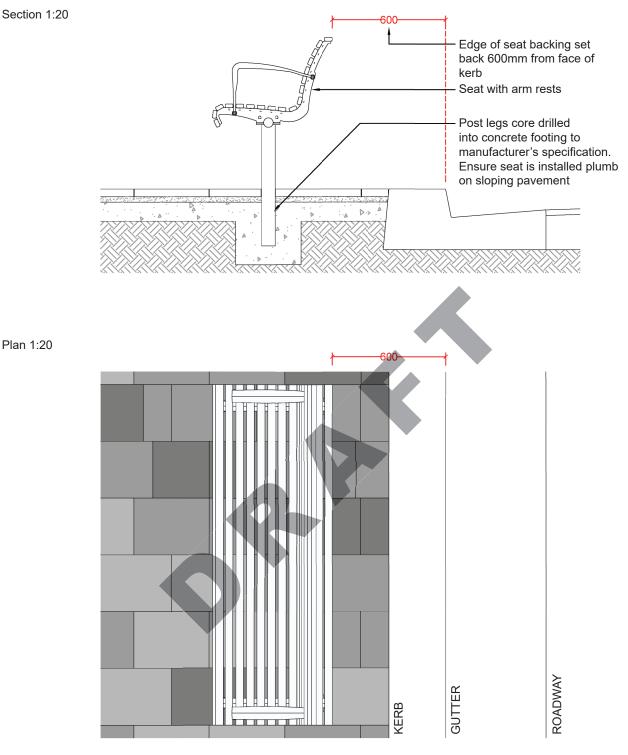
Selections	Bench: Astra Street Furniture 47-AMBA18 'Madrid Bench - Post Leg' Size: W 505mm x L 1800mm x H 455mm Frame: Aluminium, Powdercoat Vivica Charcoal with anti-graffiti coating Battens: Aluminium, Wood-grain with anti-graffiti coating Leg: Post Mounting: Core drill to concrete footing to manufacturer's specification
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

▶ 12 Seat B: Single



Selections	Seat Single: Astra Street Furniture ASP014 'Madrid Seat Single' Size: W 630mm x L 800mm x H 810mm Frame: Aluminium, Powdercoat Vivica Charcoal with anti-graffiti coating Armrest: 2 end arms, Brushed finish Battens: Aluminium, Wood-grain with anti-graffiti coating Leg: Post Mounting: Core drill to concrete footing to manufacturer's specification
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

► 13 Seat C: Wide



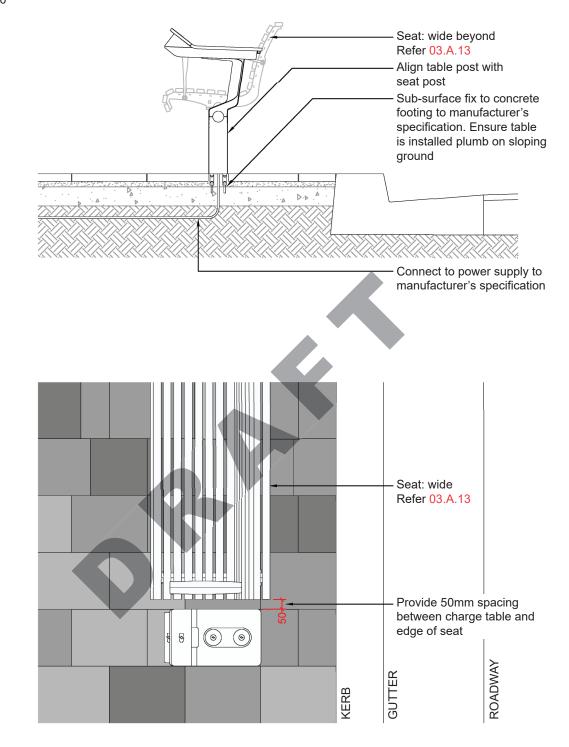
Selections	Seat Wide: Astra Street Furniture 47-AMSA18+47-ASAR 'Madrid DDA Seat with Armrests - Post Leg' Size: W 630mm x L 1800mm x H 810mm Frame: Aluminium, Powdercoat Vivica Charcoal with anti-graffiti coating Armrest: 2 end arms, Brushed finish Battens: Aluminium, Wood-grain with anti-graffiti coating Leg: Post Mounting: Core drill to concrete footing to manufacturer's specification
Notes	 Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

FURNITURE

► 14 Seat D: Charging Table

Section 1:20

Plan 1:20



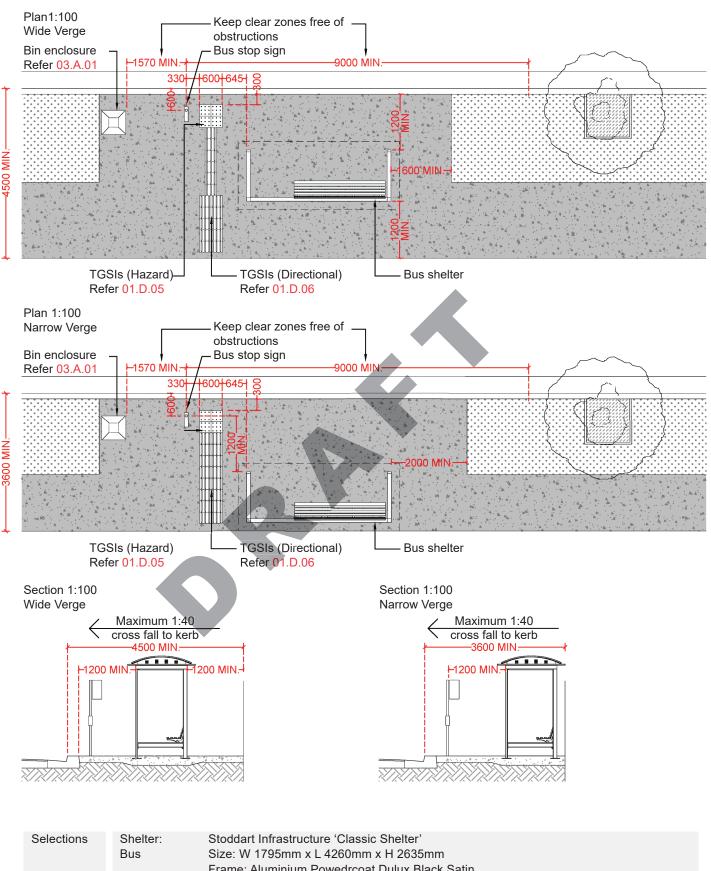
Selections	Charge Table:	Street Furniture Australia PM 'PowerMe Table' Standalone Size: W 300mm x L 510mm x H 770mm Table Top: Aluminium, Powdercoat Interpon Charcoal GM019A Frame: Aluminium, Powdercoat Interpon Charcoal GM019A with anti-graffiti coating Charging Points: 4 x USB, 2 x Wireless Mounting: Sub surface fixed to concrete footing to manufacturer's specification
Notes		ndicative only and must not be used for construction purposes. Construction details must by landscape architects and engineers and must be fit for purpose.

03.A FURNITURE AND FIXTURES

Plan 1:100 Keep clear zones free of Wide Verge obstructions Bin enclosure Bus stop sign -1570 MIN.--9000 MIN Refer 03.A.01 600+645 330 NIN 500 TGSIs (Hazard) TGSIs (Directional) Bus shelter Ensure 1200mm min. Refer 01.B.03 Refer 01.B.04 clear path of travel Plan 1:100 Narrow Verge Keep clear zones free of obstructions Bin enclosure Bus stop sign Refer 03.A.01 -1570 MIN: -9000 MIN 330 600+645-3600 MIN TGSIs (Directional) TGSIs (Hazard) Bus shelter Refer 01.B.03 Refer 01.B.04 Section 1:100 Section 1:100 Wide Verge Narrow Verge Maximum 1:40 Maximum 1:40 cross fall to kerb cross fall to kerb 4500 MIN -3600 MIN. 1111 -1200 MIN 1200 MIN.--1200 MIN THUM NANANANANA

▶ 15 Shelter A: Bus: Local Centre Core

Selections Shelter: Stoddart Infrastructure 'Classic Shelter' Bus Size: W 1795mm x L 4260mm x H 2635mm Frame: Aluminium Powedrcoat Dulux Black Satin Seat: Aluminium slats Mounting: Sub-surface fixed to manufacturer's specification Notes 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose. 2. Bus stop shelters and locations must comply with DDA Transport Standards and all relevant Australian Standards.



▶ 16 Shelter A: Bus: Local Centre Standard

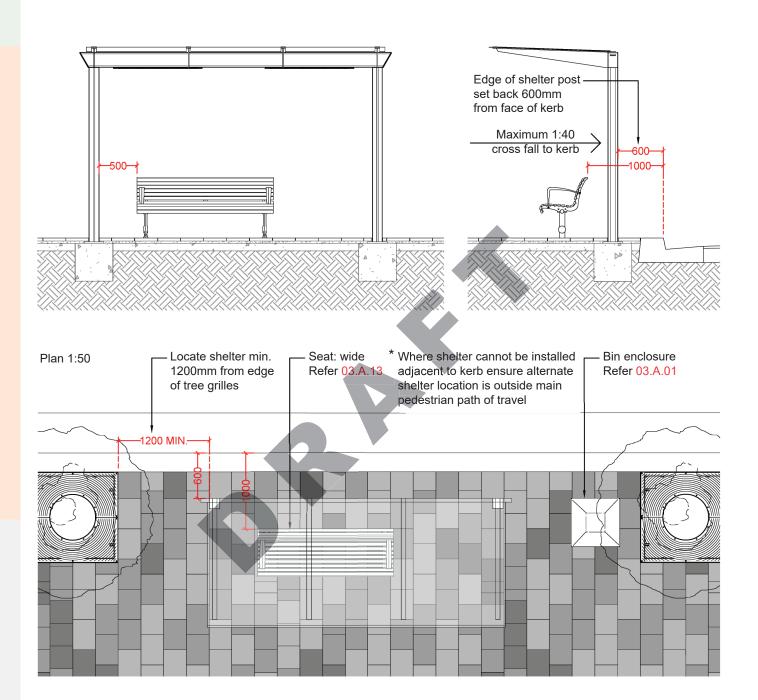
	Mounting: Sub-surface fixed to manufacturer's specification
be p 2. Bus	ails are indicative only and must not be used for construction purposes. Construction details must prepared by landscape architects and engineers and must be fit for purpose. s stop shelters and locations must comply with DDA Transport Standards and all relevant Australian ndards.

03.A FURNITURE AND FIXTURES

▶ 17 Shelter B: Bus: Kiss and Ride / Bicyce Shelter

Elevation 1:50

Section

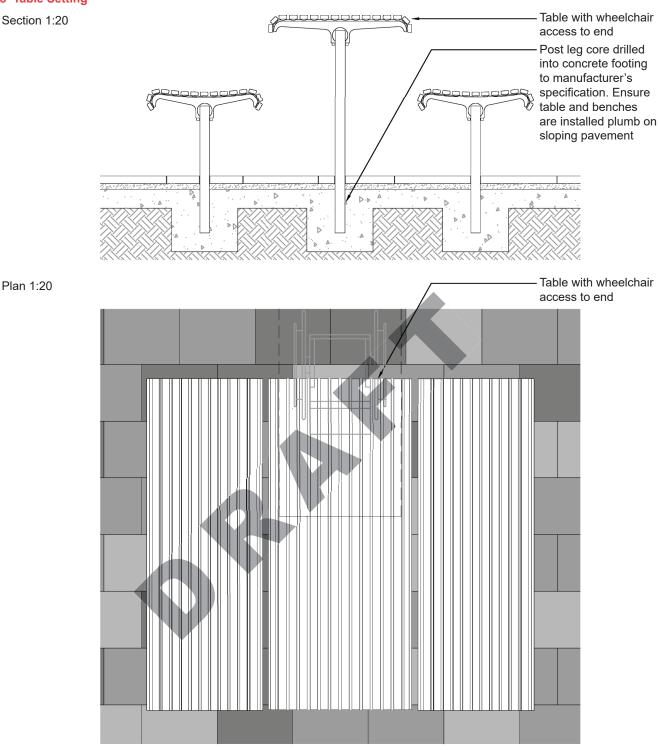


Selections	Shelter: Kiss and Ride	Stoddart Infrastructure 'Evo Bike Shelter' Size: W 1700mm x L 4110mm x H 2550mm Frame: Aluminium Powedrcoat Dulux Charcoal Satin Mounting: Sub-surface fixed to manufacturer's specification
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details mus be prepared by landscape architects and engineers and must be fit for purpose.	

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03.A FURNITURE AND FIXTURES

► 18 Table Setting



Selections	Table Setting:	Street Furniture Australia Table: CMG605-DDA 'Classic Galleria Table' Table Size: W 740mm x L 1750mm x H 850mm Bench: CMG405 'Classic Galleria Bench' Bench Size: W 615mm x L 1750mm x H 435mm Frames: Aluminium, Powdercoat Interpon Charcoal GM019A with anti-graffiti coating Battens: Aluminium, Wood-grain bush cherry with anti-graffiti coating Legs: Post Mounting: Core drill to concrete footing to manufacturer's specification
Notes		ndicative only and must not be used for construction purposes. Construction details must by landscape architects and engineers and must be fit for purpose.

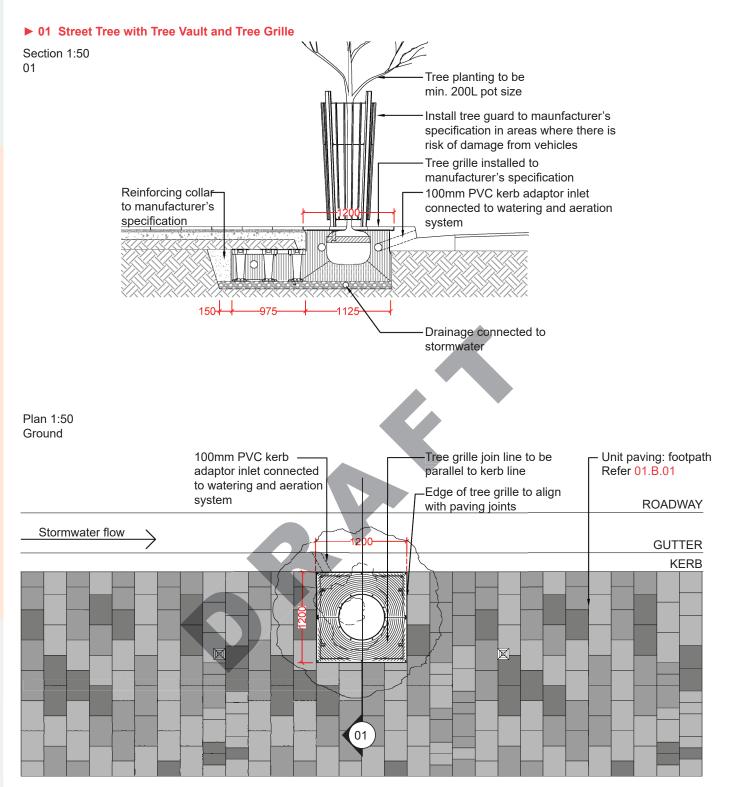
Planting

04 Planting

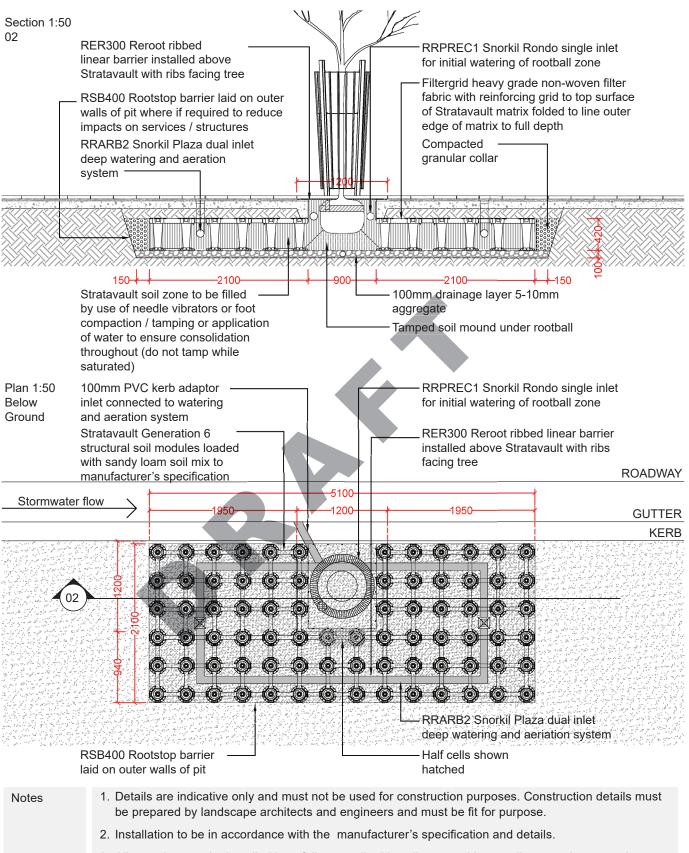
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03 Street Tree in Narrow Turf Verge94	1
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05 Low Shrubs and Groundcovers	3



04.A STREET TREES



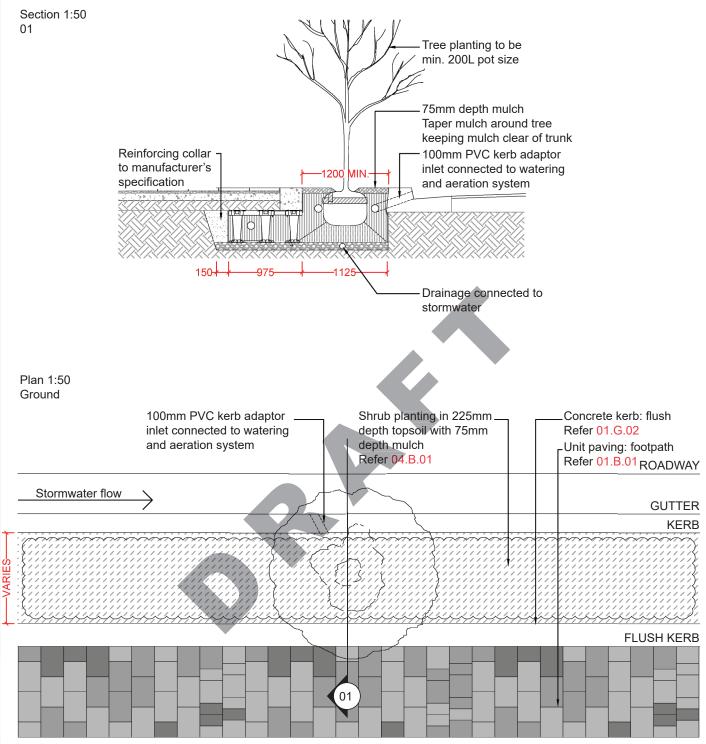
Selections	Tree Vault:	Citygreen Stratavault Linear Offset Tree Pit 4.05m ³ with Tree Grille Size: W 5100mm x L 2100mm x D 520mm
	Tree Grille:	Citygreen DPPR120 'Praxis Tree Grille' Size: W 1200mm x L 1200mm x D 60mm Frame: Mild Steel Finish: Powdercoat 'Anotec Bronze'
	Tree Guard:	Citygreen GLBEL18560-1 'Bellview Tree Guard' Size: H 1850mm x D 600-800mm Frame: Mild Steel Finish: Powdercoat 'Anotec Bronze'



- 3. All tree pits must be installed by a fully accredited installer to enable compliance and construction certification. Accreditation to be complete in full prior commencement of works onsite.
- 4. All new / replacement trees to be 200L min. pot size to Natspec.
- 5. Soil mix specification to suit specific site conditions and species requirements.
- 6. Planting to be carried out by Council staff or a Landscape Contractors Association affiliated contractor with demonstrated experience in landscape work, planting and establishment.
- 7. Planting establishment period to commence at date of practical completion.

04.A STREET TREES

▶ 02 Street Tree with Tree Vault in Planting



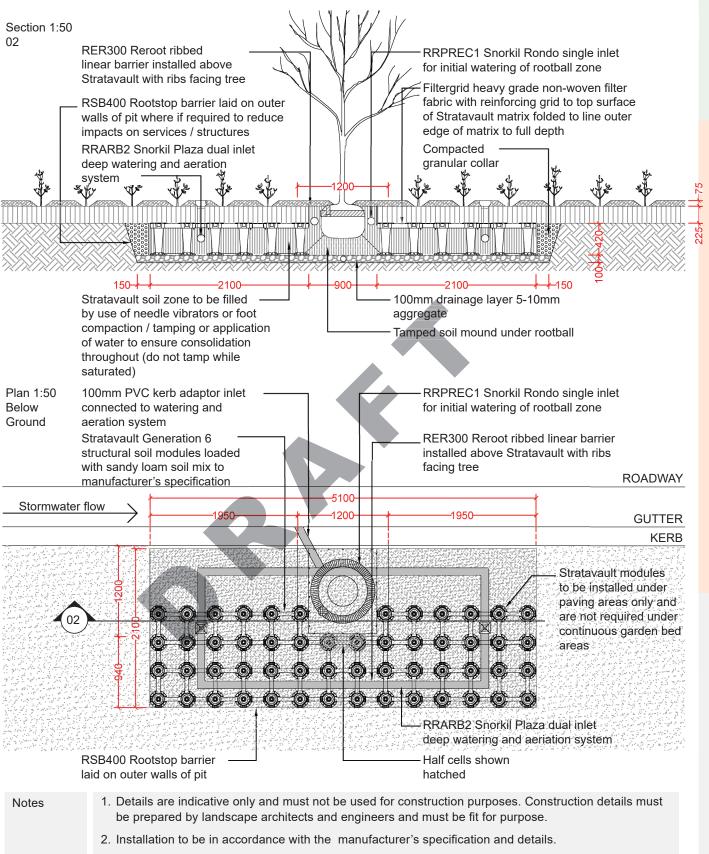
PLANTING

Selections Tree Vault:

Citygreen Stratavault Linear Offset Tree Pit 4.05m³ Size: W 5100mm x L 2100mm x D 520mm

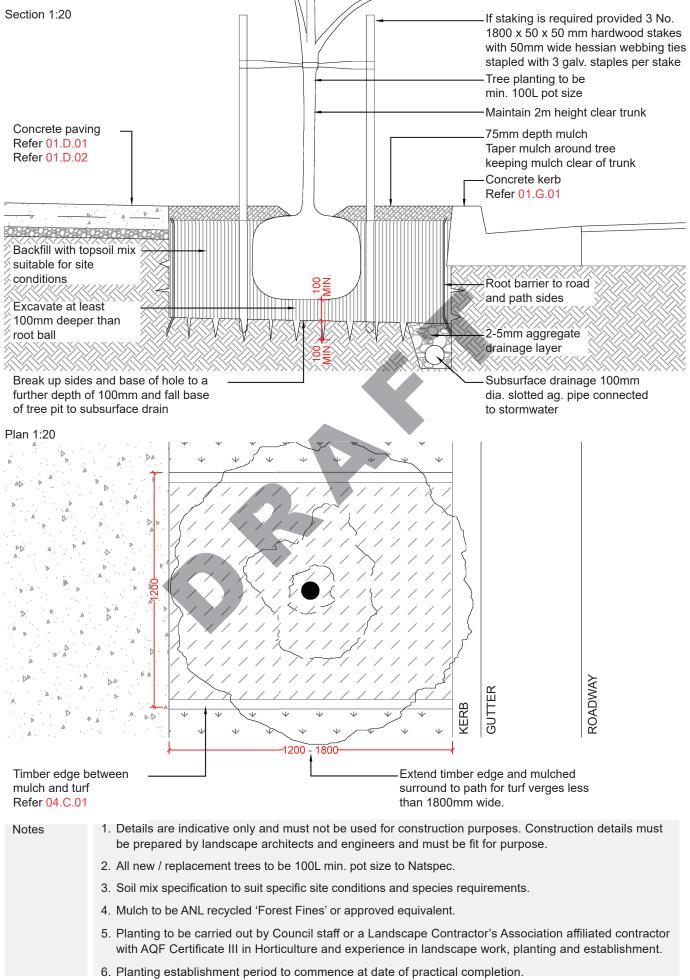
Mulch:

ANL recycled 'Forest Fines' or approved equivalent Depth: 75mm

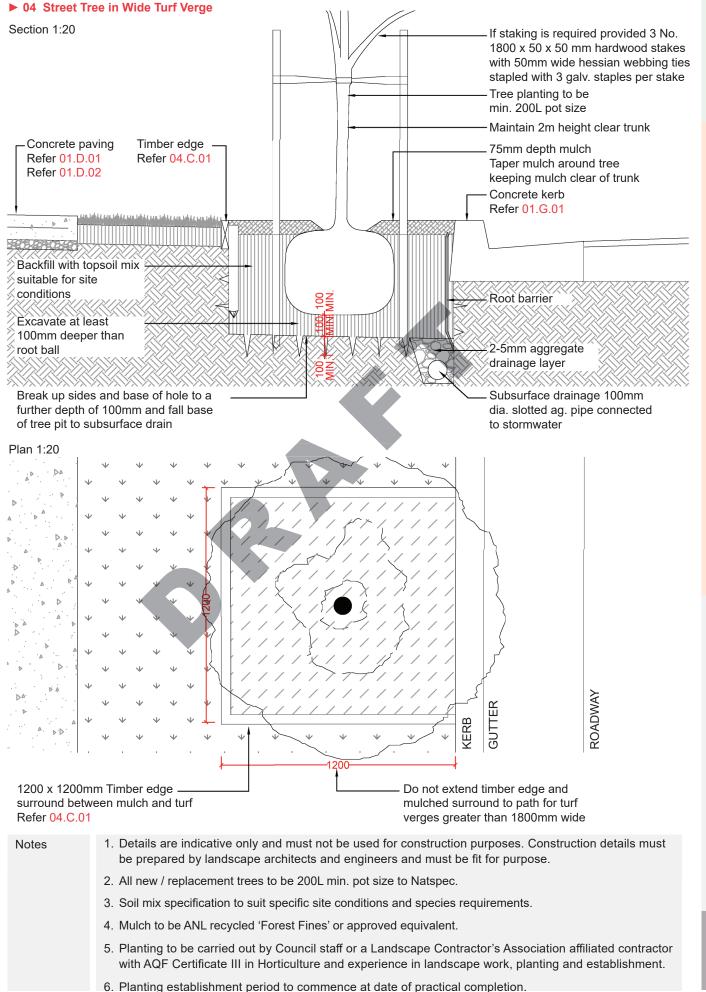


- 3. All tree pits must be installed by a fully accredited installer to enable compliance and construction certification. Accreditation to be complete in full prior commencement of works onsite.
- 4. All new / replacement trees to be 200L min. pot size to Natspec.
- 5. Soil mix specification to suit specific site conditions and species requirements.
- 6. Planting to be carried out by Council staff or a Landscape Contractor's Association affiliated contractor with AQF Certificate III in Horticulture and experience in landscape work, planting and establishment.
- 7. Planting establishment period to commence at date of practical completion.

► 03 Street Tree in Narrow Turf Verge

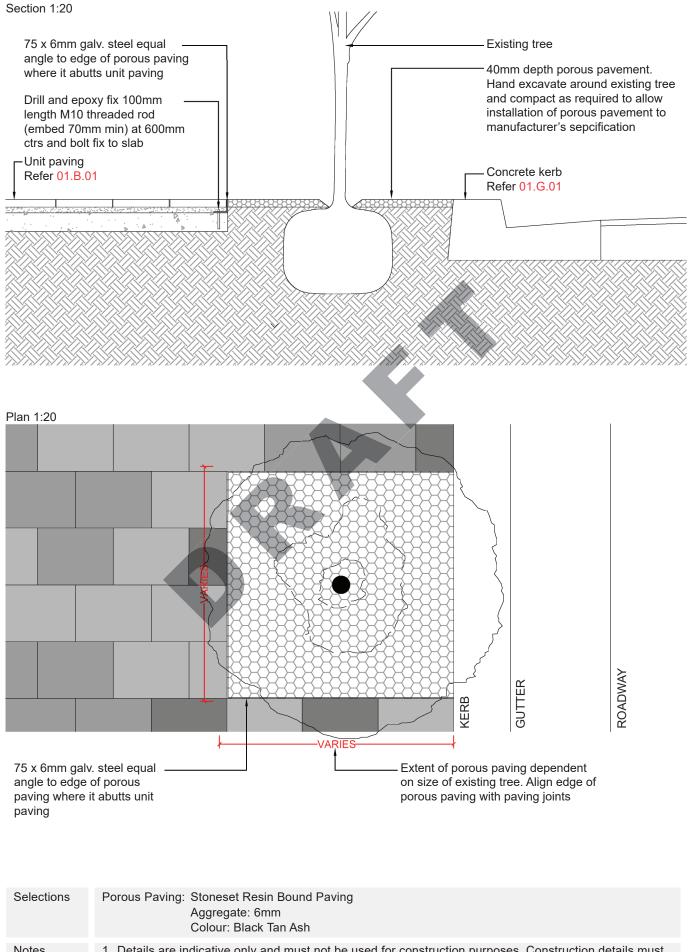


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04.A STREET TREES

▶ 05 Existing Tree in Paving: Porous Pavement

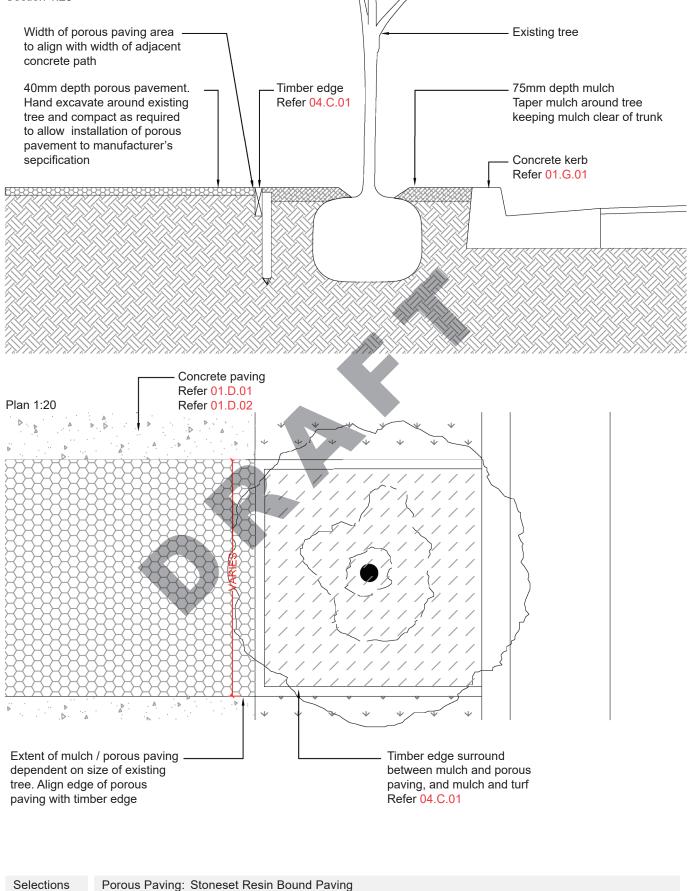


Notes

1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

▶ 06 Existing Tree in Concrete: Porous Pavement





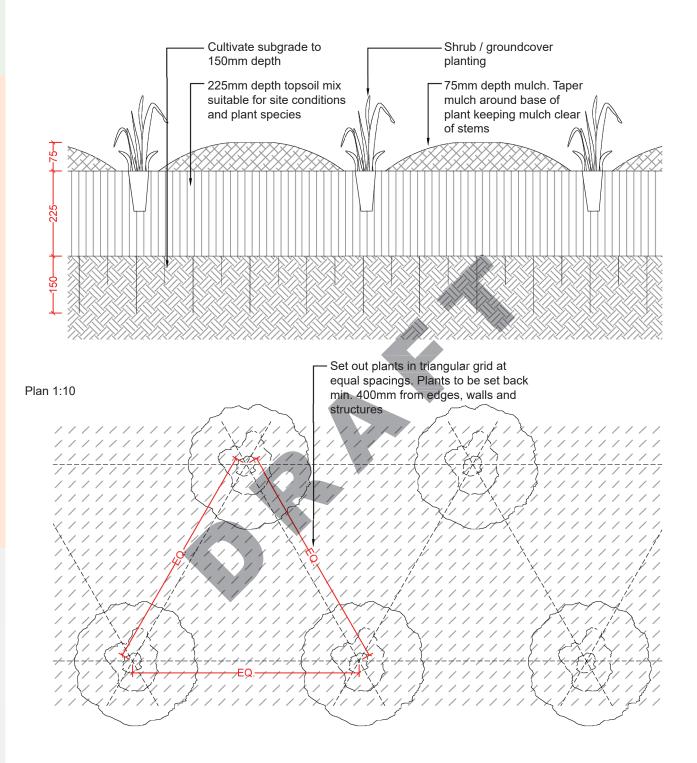
Notes	1. Details are indicative only and must not be used for construction purposes. Construction details must
110100	
	be prepared by landscape architects and engineers and must be fit for purpose.

Aggregate: 6mm

Colour: Black Tan Ash

► 01 Mulched Garden Bed

Section 1:10



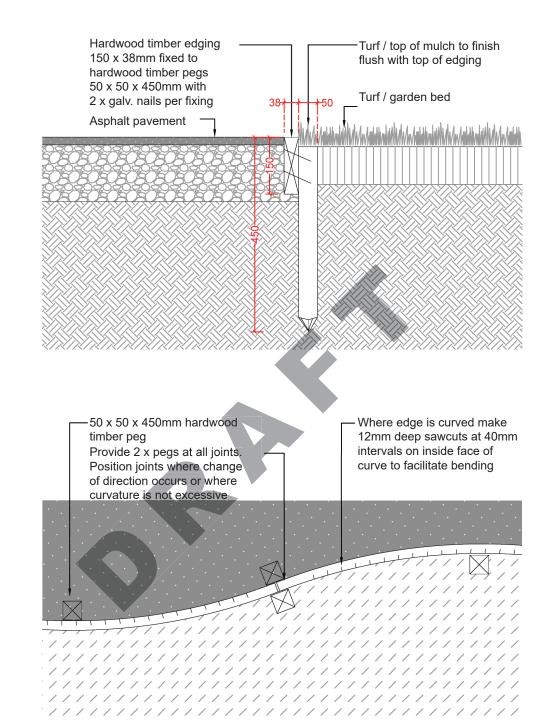
Notes

- 1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.
- 2. Soil mix specification to suit specific site conditions and species requirements.
- 3. Mulch to be ANL recycled 'Forest Fines' or approved equivalent.
- 4. Planting to be carried out by Council staff or a Landscape Contractors Association affiliated contractor with demonstrated experience in landscape work, planting and establishment.
- 5. Planting establishment period to commence at date of practical completion.

► 01 Timber Edge

Section 1:10

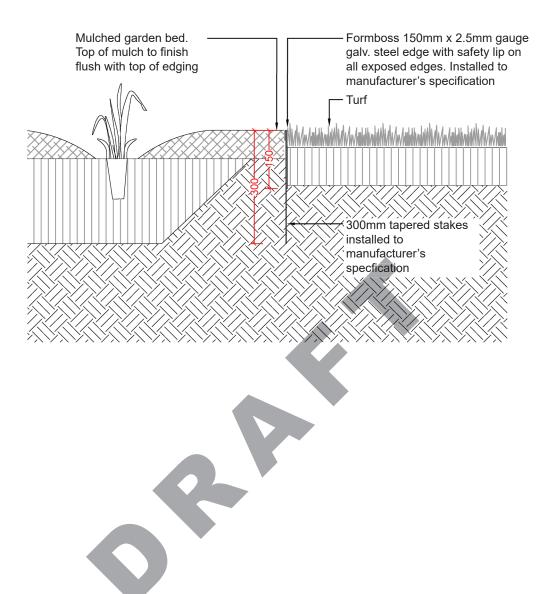
Plan 1:10



1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

► 02 Steel Edge

Section 1:10



Selections Steel Edge:

Notes

Formboss Steel Edge System Size: H 150mm x 2.5mm gauge Finish: Galvanised steel

Finish: Galvanised

1. Details are indicative only and must not be used for construction purposes. Construction details must be prepared by landscape architects and engineers and must be fit for purpose.

04.D PLANT SPECIES LIST

▶ 01 Street Trees: Local Centre Main Road

TURRAMURRA (Pacific Highway) Elaeocarpus reticulatus (Blueberry Ash)

GORDON (Pacific Highway) Araucaria cunninghamii (Hoop Pine) Lagerstroemia indica x L.fauriei (Indian Summer Crepe Myrtle)

LINDFIELD (Pacific Highway) Platanus orientalis 'Cuneata' (Plane Tree)

ST IVES (Mona Vale Road) Lagerstroemia indica x L.fauriei (Indian Summer Crepe Myrtle) Syncarpia glomulifera (Turpentine)

PYMBLE (Pacific Highway) Fraxinus pennsylvanica 'Cimmzam' Cimmaron (Cimmaron Ash)

ROSEVILLE (Pacific Highway) *Melaleuca quinquenervia* (Broad Leaved Paperbark)



▶ 02 Street Trees: Local Centre Core Streets

Angophora floribunda (Rough-barked Apple) Angophora costata (Sydney Red Gum) Araucaria cunninghamii (Hoop Pine) Buckinghamia celissima (Ivory Curl Tree) Cupaniopsis anacardioides (Tuckeroo) Elaeocarpus reticulatus (Blueberry Ash) Eucalyptus microcorys (Tallowwood) Eucalyptus sideroxylon 'Rosea' (Red Ironbark) Fraxinus americana (White Ash) Glochidion fernandi var. fernandi (Cheese Tree) Hymenosporum flavum (Native Fangipani) Lagerstroemia indica x L.fauriei (Indian Summer Crepe Myrtle) Lophostemon confertus (Brush Box) Magnolia grandiflora 'Little Gem' (Magnolia Little Gem) Melaleuca quinquenervia (Swamp Paperbark) Nyssa sylvatica (Tupelo) Platanus orientalis 'Cuneata' (Plane Tree) Pyrus ussuriensis (Manchurian Pear) Pistacia chinensis (Chinese Pistachio) Syncarpia glomulifera (Turpentine) Tristaniopsis laurina 'Luscious' (Watergum) Ulmus parvifolia (Chinese Elm) Quercus palustris (Pin Oak) Waterhousea floribunda 'Sweeper' (Weeping Lilly Pilly) Zelkova serrata 'Green Vase' (Green Vase Zelkova)

▶ 03 Street Trees: Local Centre Transition / Standard Streets

Acer buergeranum (Trident Maple) Acer palmatum (Japanese Maple) Acmena smithii (Lilly Pilly) Angophora costata (Sydney Red Gum) Angophora floribunda (Rough-barked Apple) Betula pendula (Silver Birch) Callicoma serratifolia (Black Wattle) Callistemon viminalis 'Hannah Ray' (Bottlebrush) Callistemon viminalis 'Kings Park' (Bottlebrush) Camellia sasangua (Camellia) Corymbia eximia (Yellow Blood Wood) Corymbia gummifera (Red Bloodwood) Elaeocarpus reticulatus (Blueberry Ash) Eucalyptus paniculata (Grey Ironbark) Eucalyptus pilularis (Blackbutt) Eucalyptus saligna (Sydney Blue Gum) Franklinia axillaris (Fried Egg Plant) Ginkgo biloba (Maiden Hair Tree) Glochidion fernandi var. fernandi (Cheese Tree) Lophostemon confertus (Brush Box) Melaleuca linariifolia (Prickly Leaved Paperbark) Melaleuca styphelioides (Narrow Leaved Paperbark) Nyssa sylvatica (Tupelo) Syncarpia glomulifera (Turpentine) Syzigium sp. (Lilly Pilly varieties) Tristaniopsis laurina (Water Gum)

PLANTIN

▶ 04 Trees: Local Centre Parks and Open Spaces

Angophora floribunda (Rough-barked Apple) Angophora costata (Sydney Red Gum) Buckinghamia celissima (Ivory Curl Tree) Corymbia eximia (Yellow Blood Wood) Corymbia gummifera (Red Bloodwood) Elaeocarpus reticulatus (Blueberry Ash) Eucalyptus paniculata (Grey Ironbark) Eucalyptus pilularis (Blackbutt) Eucalyptus saligna (Sydney Blue Gum) Glochidion fernandi var. fernandi (Cheese Tree) Jacaranda mimisofolia (Jacaranda) Lagerstroemia indica x L.fauriei (Indian Summer Crepe Myrtle) Lophostemon confertus (Brush Box) Melaleuca quinquenervia (Swamp Paperbark) Nyssa sylvatica (Tupelo) Syncarpia glomulifera (Turpentine) Quercus palustris (Pin Oak)

▶ 05 Low Shrubs and Groundcovers

Callistemon citrinus 'White Anzac' (White Bottlebrush) Chrysocephalum apiculatum (Everlasting Daisy) Correa alba 'Star Showers' (Native Fuschia) Correa pulchella x alba 'Ice Maiden' (Native Fuschia) Dianella caerulea varieties (Blue Flax Lily) Dianella tasmanica varieties (Tasmania Flax Lily) Ficinia nodosa (Club Rush) Grevillea crithmifolia 'Green Carpet' (Prostrate Grevillea) Grevillea lanigera postrate (Woolly Grevillea) Helichrysum italicum (Curry Plant) Lavandula 'Super French' (Lavender) Lomandra longifolia 'Katrinus' (Mat Rush) Lomandra longifolia 'Verday' (Mat Rush) Liriope muscari (Turf Lily) Liriope 'Evergreen Giant' (Giant Turf Lily) Pittosporum tobira 'Miss Muffett' (Miss Muffett) Rosmarinus officinalis (Rosemary) Trachelospermum jasminoides (Star Jasmine) Westringa fruticosa (Coastal Rosemary)

