SWANSEA STREETSCAPE MASTER PLAN

PLANNING CONTROLS

1. Lifestyle 2030.
   Broad planning vision for Lake Macquarie for managing population and employment.
   Lake Macquarie City Council – Adopted 11 March 2013

2. Draft Lake Macquarie Local Environmental Plan 2014
   Land use zones and permissible uses within Lake Macquarie Lake Macquarie City Council – Adopted 25 May 2013

3. Lake Macquarie Development Control Plan (DCP2014)
   General guidelines for development within Lake Macquarie Lake Macquarie City Council – Adopted 12 June 2013

4. Area Plans
   Specific guidelines for development within town centres Lake Macquarie City Council - contained in DCP. Swansea Area Plan under development.

5. Streetscape Master Plans
   Streetscape planning within town centres Lake Macquarie City Council – Draft in review

6. Streetscape Technical Guidelines
   Details and installation requirements for town centres Lake Macquarie City Council – Under development

Note: All planning documents listed above are current at the time of adoption of this Streetscape Master Plan. For the latest versions, please confirm that you have the latest versions.

LAKE MACQUARIE TOWN CENTRE STREETSCAPE MASTER PLANS

The Streetscape Master Plans provide a document that identifies this vision and provides a plan for its implementation. The Streetscape Master Plans are intended to improve the aesthetic appearance of the town centres, promote the area’s personality, increase opportunity, accessibility, functionality, economic effect and provide a modern easily maintainable public domain. The Streetscape Master Plans ensure a unified approach to undertaking public domain works by Council, developers and the community. It also assists in directing public and private investments and will inform the chamber of commerce in the preparation of strategic plans. The Streetscape Master Plans are substantially focused on the areas currently zoned as local, neighbourhood or mixed use centres under the Lake Macquarie LEP 2014. These are the areas of each of the town centres where the majority of commercial activity will occur. These areas are also the most likely to undergo change in the future.

The consideration and collation of all relevant issues resulted in this overall priority order for the Streetscape Master Plans for Lake Macquarie City’s nine major town centres:

2. Cardiff - completed and adopted by Council.
6. Warners Bay - under development.
7. Swansea - under development.
8. Mount Hutton - under development.
9. Glendale - to future design.

The priority order adopted by Council has been adjusted for the 2014/15 financial year to prioritise Mount Hutton ahead of Glendale (as shown above) due to the impact of the Lake Macquarie Transport Interchange on the Glendale Town Centre.

OBJECTIVES OF TOWN CENTRE STREETSCAPE MASTER PLANS

- To provide a clear vision and identity for each town centre.
- To provide a clear guide for Council, the community and developers.
- To create vibrant active town centres.
- To provide consistencies within Lake Macquarie.
- To preserve and enhance the uniqueness of Lake Macquarie’s town centres.
- To ensure high quality outcomes.
- To reduce asset maintenance costs.

EXTENT OF TOWN CENTRE STREETSCAPE MASTER PLANS

The areas covered by the Streetscape Master Plan are the public areas owned and/or managed by the council. The focus is on the streetscape elements within the road reserve and include street trees, tree guards, furniture, bins, bike racks, drinking fountains, bollards, lighting, paving, public art and town centre signage. For consistency the streetscape treatments should be extended onto private land at building setbacks, building forecourts, arcade entrances, pedestrian lanes etc. and where logical to address pedestrian links. New development needs to address the streetscape as prescribed by this plan. Items and selections nominated in this plan will be reviewed periodically by LMCC in accordance with relevant legislation.

TOWN CENTRE PERSONALITIES

Town centre personalities have been developed for these nine town centres. These have been derived to provide a strong town centre identity and theme for enhancing character, heritage and sense of place.

The nine main town centres personalities are:
- Charlestown - the Central Business District
- Cardiff - the Skills & Trades Centre
- Belmont - the Activity Centre
- Toronto - the Lakeside Village
- Morisset - Nurtures the Spirit of Community
- Warners Bay - the Lifestyle Centre
- Swansea - the Seaside Village
- Mount Hutton - the Growing Community
- Glendale - the Dynamic Services Hub

The priority order adopted by Council has been adjusted for the 2014/15 financial year to prioritise Mount Hutton ahead of Glendale (as shown above) due to the impact of the Lake Macquarie Transport Interchange on the Glendale Town Centre.

Note: The planning documents listed above are current at the time of adoption of this Streetscape Master Plan. When using these documents please confirm that you have the latest versions.

The Master Plan has been developed from on-site observations, cadastral plans and aerial photographs. Dial Before You Dig (DBYD) service information has been reviewed and considered. It is the responsibility of the planners, developers and contractors to accurately locate services and adopt this Master Plan for individual sites.

The details are indicative and to be used as a guide only. Measurements may vary on site.

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<td>REVISED TO COMPLIMENT THE STREETSCAPE TECHNICAL GUIDELINE</td>
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SWANSEA STREETSCAPE MASTER PLAN

GENERAL TOWN CENTRE OBJECTIVES/VISION
- To create a vibrant new town centre.
- To enhance safety and accessibility.
- To create a walkable connected town centre.
- To create a consistent character.
- To link key areas.
- To provide a sustainable environment.
- To provide facilities for public art.
- To provide high quality furniture, lighting and paving.
- To enhance the character of surrounding streets.
- To provide for transport options in the town centre.
- To promote walking, cycling and public transport.
- To minimise stormwater impacts by use of water sensitive urban design (WSUD)
- To improve street amenity.
- To activate the precinct as a safe and inviting destination.

SWANSEA OBJECTIVES AND VISION
- To enhance Swansea’s unique physical location as a gateway to Lake Macquarie.
- To build Swansea’s identity as a retail and seaside village.
- To maintain significant vistas to Swansea Channel and other landmarks.
- To create clean lines, reduce clutter and improve ambience.
- To improve accessibility to Local Centre (B1) and Mixed Use (B4) zones from other parts of the town centre.
- To consider the impact of Sea Level Rise on new infrastructure.
- To protect and enhance Swansea’s heritage.

CONSTRAINTS
- Services & awnings restrict tree plantings.
- Varied pavement styles.
- High water table.
- Feeding issues, in particular at the intersection of Lake Road and Pacific Highway.
- Projected increase in ocean and lake levels.

NOTE: Refer introduction page for Planning Controls.

ADDITIONAL PLANNING CONSIDERATIONS FOR SWANSEA STREETSCAPE MASTER PLAN:
- LMCC Public Art Strategy.
- LMCC Footpath Strategy.
- Public Art Policy.
- Town Centre Personalities.
- Public Lighting Policy.
- Banner Policy For long-term (ongoing) banner installation - 2022.
- Management of Trees on Roads and Public Reserves Policy.
- LMCC Pool Service Delivery Model 2013 for Swansea Leisure Centre.
- Asset Management Plans - Current conditions and replacement schedule - Draft.

These documents have been reviewed and considered as part of this plan. Where these initiatives or any others are adopted or modified the Streetscape Master Plan should be updated to reflect this.
Street Type 1 comprises of Pacific Highway and Bowman Street. This is a major access way to Lake Macquarie and Newcastle. This road has a high level of vehicular and pedestrian traffic, and is the first impression of Swansea Town Centre for visitors and locals.

**OBJECTIVES**
- To create a strong sense of place and source of pride in the precinct.
- To encourage longer visitor duration and social connectivity by providing pleasant places to gather.
- To cater for a range of retail, commercial, business and hospitality uses.

**EXISTING CONSTRAINTS**
- Large roundabout at southern end of Pacific Highway.
- Swansea Channel Bridge.
- Talbot Park in the central median.
- Existing and proposed awnings.
- Patchwork of existing paving types.
- In-ground services, overhead power lines and power poles.

**DESIGN RESPONSE**

**PACIFIC HIGHWAY**
- To provide for footpath pavement widening to 5.5m.
- To provide for full-width unit pavers and contrasting header & banding to shop fronts.
- To provide for custom paving pattern in front of Swansea Information centre.
- To retain parallel parking.
- To provide for medium size tree planting within the parking lane.
- To provide for small trees under powerlines.
- To provide for appropriate safety elements like bollards, tactile indicators, pram ramps and pedestrian lighting.
- To provide for Custom seating - Seat Type 1 pod shaped in precast concrete and Seat Type 3 with timber slats.
- To provide for a secure fencing element to Talbot park.
- To provide for a public art entry statement.

**BOWMAN STREET**
- To provide for 3m wide shared pathway at existing location.
- To provide for Cobble paving. 0.8m wide between shared pathway and road.

**TYPICAL DIMENSIONS**
- Road reserve width: 60m
- Pacific Highway Pavement width: 5.5 - 6m
- Parking Width: 3m

**NOTE:**
Where parallel parking is provided, designated accessible parking bays need to be identified to allow for widths compliant with AS1289 part 5. Installation of street furniture to be determined in the detailed design stage and in conjunction with LMCC Technical Guidelines.
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

Refer to the Swansea Streetscape Technical Guidelines for specification guidance on streetscape element selections and pavement types.

**FURNITURE**

Furniture to be clustered at prominent locations including bus stops and shop entries to create activity nodes. Coordinate with town park and cafe frontages.

- **Custom elements:**
  - Pod shaped precast concrete seat type 1:
    - Location: At key locations in sets of max 3 seats.
  - Rectangular precast concrete seat type 3:
    - Locations: At key locations identified by LMCC.

Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

**Waste & Recycling Receptacles – Bins:**

Locations: At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas along Pacific Highway and Bowman street.

- **Bike Racks:** Custom bike rack:
  - Locations: At key locations along Pacific Highway as determined at detailed design stage. Along shared cycle route from bridge to roundabout including at bus stops on Bowman street.

**Drinking Fountains:**

Locations: At key locations like local hubs or near pedestrian and cyclist routes.

**MATERIALS AND FURNITURE SELECTION**

- **Bollards:**
  - Locations: where required to prevent and deter vehicular access.
  - Illuminated bollards at selected locations.

- **Shade Structures:**
  - Locations: at Swansea Information centre.
  - Sail structures in combinations of rectangular / square sails single pole mounted with provision for lighting.

- **Banner Poles:**
  - Location: Along the Pacific Highway footpath.

- **PAVEMENT**

  - **Footpath:**
    - Main Body: Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines.
  - **Border and banding:**
    - Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines.

  Other special pavements:
  - Permeable: to drinking fountain surrounds and adjacent planted areas.
  - Feature: In-situ concrete in light and dark grey tones and exposed aggregate finish forming free flow patterns.

- **Tactile:**
  - Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

- **STREET PLANTING**

  - **Avenue tree planting in garden beds with understorey mass planting.**
  - Tree Guards: Tree guard with Swansea custom infill panel.

- **Street Trees and understorey planting in road reserve.** Refer to planting schedule on page 20.

**Spacing:** Approximately at 80m centres.

Location and planting of streets on nature strip to be coordinated with existing and any proposed underground services.
LAKE ROAD
ZONE: B2 LOCAL CENTRE

DESCRIPTION
This street type is located between Pacific Highway and Josephson Street. These areas have a high level of vehicle and pedestrian traffic, and are the part of the Local Centre zone of Swansea town centre. The post office and the medical centre has access from this road.

OBJECTIVES
To create a strong sense of place, an attractive street and source of pride in the precinct.
To encourage longer visitor duration and social connectivity by providing pleasant places to gather. To cater for a range of retail, commercial, business and hospitality uses.

EXISTING CONSTRAINTS
Existing and proposed awnings. Patchwork of existing paving types. In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
This section will emulate the streetscape type 1 in paving materials with simplified patterns and banding. To provide for new pavement width retained to 3.5m. To provide for seating, bins, bike racks and drinking fountains.

TYPICAL DIMENSIONS
Road reserve width: 20m. Verge width: 3.5m. Parking lane: 3.5m per RMS guidelines.

MATERIALS AND FURNITURE SELECTION

PLANE - LAKE ROAD 1:800@A3

Street Type 2

The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Custom elements:
Type: Rectangular precast concrete seat type 3.
Locations: At key locations identified by LMCC.
Provide seating a maximum of 6m intervals to comply with disabled/ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas.

Bike Racks - Custom bike rack:
Locations: At key locations including post office / telephone booth and at alfresco dining areas

Banner Poles:
Location: Along the northern verge of Lake Road.

PAVEMENT

Footpath:
Main Body: Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines
Border: 1.5m wide from back of kerb to main body paving, in grey concrete with exposed black basalt aggregate.
Bandings: At 3m ctrs, Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4

STREET PLANTING

Trees:
Street trees and understorey planting in parallel parking area.
Small to medium size trees on north side with power lines and large trees on the southern side.

Spacing:
Where possible and at the ends where pavement widens for pedestrian movement.
Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

Tree Guards:
Tree guard with Swansea custom infill panel
JOSEPHSON STREET
ZONE:B2 LOCAL CENTRE

DESCRIPTION
This street type is located between Lake Road and Belmont Street which runs parallel to Pacific Highway. This area has a moderate level of vehicle and pedestrian traffic as the shops carpark traffic exits on to this street.

OBJECTIVES
To create a sense of place and source of pride in the precinct.
To encourage longer visitor duration and social connectivity by providing pleasant places to gather.
To cater for a range of retail, commercial, business and hospitality uses.

EXISTING CONSTRAINTS
Patchwork of existing paving types.
In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide for unmarked parallel parking on both sides, with 1.5m wide footpath connections.
To provide shaded footpath by planting trees on the verge.
To provide for appropriate safety elements including tactile indicators and pram ramp crossings.
To comply with CPTED - Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Road reserve width: 20m.
Verge width: 3.3m with 1.5m wide pathway.
Parking lane: unmarked and as per RMS Guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC including Police station.
Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas.

PAVEMENT
Footpath:
Body: In-situ grey concrete pavement broom finish to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish.

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey planting on the verge.
Small to medium size trees on east side with power lines and large trees on the west.
Spacing: 10m centres typical.
Where crossovers occur, tree locations to be adjusted.
Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines.
JOSEPHSON STREET cont.

ZONE: B2 LOCAL CENTRE

DESCRIPTION
This street type is located between Lake Road and Belmont Street and runs parallel to Pacific Highway.
This area has a moderate level of vehicle and pedestrian traffic as the shops carpark traffic exits on to this street.

OBJECTIVES
To create a sense of place and source of pride in the precinct.
To encourage longer visitor duration and social connectivity by providing pleasant places to gather.
To cater for a range of retail, commercial, business and hospitality uses.

EXISTING CONSTRAINTS
Patchwork of existing paving types.
In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide for unmarked parallel parking on both sides, with 1.5m wide footpath connections.
To provide shaded footpath by planting trees on the verge.
To provide for appropriate safety elements where necessary including bollards, tactile indicators and pram ramps.
To comply with CPTED- Crime Prevention Through Environmental Design principles.
To provide for road calmers with ‘S’ shaped horizontal deflectors at locations as advised by RMS guidelines and to LMCC Traffic Control guidelines.

TYPICAL DIMENSIONS
Road reserve width: 20m
Verge width: 3.3m with 1.5m wide pathway and traffic island as calmer
Parking lane : Unmarked and as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

Refer to the Swansea Streetscape Technical Guidelines for specification guidance on streetscape element selections and pavement types.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC including Police station.
Provide seating at a maximum of 60m intervals to comply with disabled/ ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations identified by LMCC.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish.
Tactile:
Tactile Ground Surface Indicator (TGSi): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey turf on the verge. Refer page 20.
Small to medium size trees on eastern side under powerlines and large trees on the western side.
Spacing: 10m centres typical - adjust for driveway crossings and existing and any proposed underground services.

Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines
BELMONT STREET
ZONE: B2, R3 & RE1

DESCRIPTION
This Street type is located on the north of the town centre, between Josephson and Macquarie Streets, with Local Centre zone planned on the south and new refurbished Swansea Leisure Centre on the north.

OBJECTIVES
To create a strong sense of place and an attractive leisure centre precinct.
To encourage longer visitor duration and social connectivity by providing pleasant places to gather.
To cater for a range of commercial and hospitality uses.

EXISTING CONSTRAINTS
Patchwork of existing paving types.
In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide for 1.5m wide footpath on southern side of street with small to medium tree planting under overhead power lines.
To provide tree planting along car park area.
To provide for appropriate safety elements including tactile indicators and pram ramps.

TYPICAL DIMENSIONS
Road reserve width: 20m.
Verge width: 3.3m with 1.5m wide pathway on the south side.
Parking lane: unmarked and as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC including Bus Stop/Drop zone.
Provide seating at a maximum of 60m intervals to comply with disabled/ ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas.

Bike Racks: Custom Bike rack
Locations: At the connecting footpath into the swim centre and as identified by LMCC

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish.

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey turf on the verge.
Small to medium size trees on the southern side under powerlines and large trees on the northern side.

Spacing:
To be determined during detail design stage.
Where crossovers occur, tree locations to be adjusted.

Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

Tree Guards: Tree guard with Swansea custom infill panel on the north verge of street.
LMCC standard tree guard to trees on the south of street.

PLAN - BELMONT STREET 1:600@A3

SECTION 1:200@A3
**MATERIALS AND FURNITURE SELECTION**

The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

Refer to the Swansea Streetscape Technical Guidelines for specification guidance on streetscape element selections and pavement types.

**FURNITURE**

- **Custom elements** - Pod shaped precast concrete seat type 1.
  - Location: At key locations in sets of 2 or 3 as may be determined at detail design stage.

- **Rectangular precast concrete seat type 2.**
  - Locations: At key locations identified by LMCC

- **Provide seating at a maximum of 6m intervals to comply with disabled ageing requirements.**

**Waste & Recycling Receptacles – Bins:**

- **Locations:** At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas.

**Bike Racks:** Custom Bike rack (Refer page 19.)
- **Locations:** At locations as determined by LMCC at detail design stage.

**Drinking Fountains:**
- **Locations:** At key locations along the promenade as determined at detail design stage.

**Bollards:**
- **Locations:** Where required to prevent unauthorised vehicular access.
- **Location:** Along the foreshore.

**PAVEMENT**

- **Footpath:**
  - **Main Body:** Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines
  - **Border and banding:** Concrete segmental flags as specified in the Swansea Streetscape Technical Guidelines

**Tactile:**
- **Tactile Ground Surface Indicator (TGSI):** integrated pavers set-out to AS1428.4

**STREET PLANTING**

- **Trees:** Large trees and understorey planting with seating and planting edges on promenade.
- **Small to medium size park trees on the building side.**
- **Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.**

**Tree Guards:**
- **Tree guard with Swansea custom infill panel.**

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**CHANNEL STREET FORESHORE**

**ZONE: RE1 & B2**

**DESCRIPTION**

This street type is located in the space between the proposed refurbishment of Swansea Leisure Centre and Channel Street forming an extension to the existing foreshore. A section of Channel Street is proposed to be disconnected as part of the Swansea Leisure Centre development.

**OBJECTIVES**

- To create a strong sense of place, an attractive foreshore precinct and to transform into a well developed landscaped space.
- To encourage longer visitor duration and social connectivity by providing pleasant places to gather.
- To cater for a range of public leisure activities with potential for playgrounds, lawn areas, promenade spaces which connect to the existing foreshore.
- To provide an innovative foreshore design that provides protection and public access while accommodating increase in sea levels.
- To introduce public art to depict local Aboriginal cultural elements.

**EXISTING CONSTRAINTS**

Removal of part of existing Channel Street as per LMCC Pool Service Delivery Model 2013 for Swansea Leisure Centre.

**DESIGN RESPONSE**

- To provide foreshore protection that can be easily adapted to Sea Level Rise.
- To provide landscaped area between the property line of Swansea Leisure Centre and the footpath.
- To extend existing pathway along the foreshore.
- To provide for appropriate safety elements like bollards, tactile indicators, pram ramps and pedestrian lighting.
- To provide for bins, artwork, lighting, shade structures, etc within the public open space.
- To provide for pod shaped custom design seating in precast concrete, tree planters and standard seating.
- To provide custom design shade structures along promenade.

**TYPICAL DIMENSIONS**

**Road reserve width:** 27-21m.
**Hard pavement to design and pattern. TBA.**
WOOD STREET
ZONE: B2 LOCAL CENTRE & R3

DESCRIPTION
This street type is located on the south of the town centre, between Lake Road and Old Pacific Highway, with B2 Local Centre on the eastern side and residential on the west. Almost all of the eastern side is rear access car parking serving the shops on Pacific Highway.

OBJECTIVES
To create a strong sense of place. To encourage longer visitor duration and social connectivity. To cater for a range of retail, commercial, hospitality and a number of aged care and senior living uses.

EXISTING CONSTRAINTS
Patchwork of existing paving types. In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide for unmarked parallel parking on both sides. To provide 1.5m wide footpaths. To provide for appropriate safety elements including tactile indicators and pram ramps. To comply with CPTED - Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Road reserve width: 20m
Verge width: 3.3m with 1.5m wide pathway on both sides. Parking lane: unmarked and as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC.
Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops, Taxi ranks and food outlet areas.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish.

Tactile
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey planting to verge.
Small to medium size trees on east side with powerlines and large trees on the western side.

Spacing:
10m centres typical. Where crossovers occur, tree locations to be adjusted.

Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines
PEEL STREET
ZONE: B4 & R3

DESCRIPTION
This Street type is located in an east-west direction from Bowman Street towards Black Ned's Bay. Peel street is a mixed zone street with footpaths on both sides. The RSL is located on the north of the street. Residential zone on the south.

OBJECTIVES
To create a strong sense of place.
To create pedestrian links and provide shade with street trees.

EXISTING CONSTRAINTS
Patchwork of existing paving types.
In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide for unmarked parallel parking on both sides, and widening of existing footpath to 1.5m wide. Potential to introduce marina and public jetties at end of the street.
To provide for appropriate safety elements where necessary including tactile indicators and pram ramps.
To comply with CPTED - Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Road reserve width: 20m.
Verge width: 3.3m with 1.5m wide pathway on the both sides.
Parking lane : unmarked and as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC.
Provide seating at a maximum of 60m intervals to comply with disabled/ ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops, Taxi ranks, outside food outlets areas.

Bike Racks:
Type: Swansea standard bike rack selection, refer to the Swansea Streetscape Technical Guidelines.
Locations: At key locations identified by LMCC.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish.

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4

STREET PLANTING
Trees:
Street trees and understorey turf to verge.
Small to medium size trees on north side under powerlines and large trees on the southern side.

Spacing:
10m centres typical. Where crossovers occur, tree locations to be adjusted.
Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines
**BELMONTE STREET**
**ZONE: R3 & RE1**

**DESCRIPTION**
This street type runs east-west direction along Quinn Park, which is on the northern side of street.

**OBJECTIVES**
To create a strong sense of place and compliment Quinn Park.
To encourage longer visitor duration and social connectivity by providing pleasant places to gather.

**EXISTING CONSTRAINTS**
Patchwork of existing paving types. In-ground services, overhead power lines and power poles.

**DESIGN RESPONSE**
To provide pathway along the park and link with pedestrian crossing near proposed Swansea Leisure Centre.
To provide for unmarked parallel parking on both sides, and widening of existing footpath to 1.5m wide.
To provide for appropriate safety elements where necessary including tactile indicators and pram ramps.
To comply with CPTED - Crime Prevention Through Environmental Design principles.

**TYPICAL DIMENSIONS**
- Road reserve width: 20m
- Verge width: 3.3m with 1.5m wide pathway on the south side.
- Parking lane: unmarked and as per RMS guidelines.

**FURNITURE SELECTION**

- **Seats:**
  - Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines.
  - Locations: At key locations identified by LMCC. Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

- **Waste & Recycling Receptacles – Bins:**
  - Locations: At existing and key locations identified by LMCC.

- **Bike Racks:**
  - Type: Swansea standard bike rack selection, refer to the Swansea Streetscape Technical Guidelines.
  - Locations: At the connecting footpath into Swansea Leisure Centre, if applicable.

**PAVEMENT**
- **Footpath:**
  - Body: In-situ concrete pavement to LMCC guidelines.
  - Other open space pavements: Property driveway crossovers in grey concrete broom finish.
- **Tactile:**
  - Tactile Ground Surface Indicator (TGSI): Integrated pavers set-out to AS1428.4.

**STREET PLANTING**
- **Trees:**
  - Street trees and understorey turf planting to verge.
  - Small to medium size trees on southern side under powerlines.
  - Spacing: 10m centres typical. Where crossovers occur, tree locations to be adjusted.
  - Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.
- **Tree Guards:**
  - LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines.
SWANSEA Streetscape Master Plan

GALGABBA STREET
ZONE: R3 & RE1

DESCRIPTION
This Street type runs north-south, Residential zone on the west and Quinn Park on the east.

OBJECTIVES
To create a well planned residential streetscape with avenue planting on both sides. To create straight access along the property line of Quinn Park for safe pedestrian movement.

EXISTING CONSTRAINTS
Wide verge on the west of the road is being used as a unregulated parking area. Patchwork of existing paving types. In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide 1.5m wide pathway 2m off the kerb on the residential side. To provide 1.5m wide pathway 1m off property line on Quinn Park side. To provide for unmarked parallel parking on residential side and marked parking on Quinn Park side. To provide for appropriate safety elements where necessary including, tactile indicators and pram ramps. To comply with CPTED Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Road reserve width: 30m. Verge width: 3.3m with 1.5m wide pathway on the park side. Parking lane: unmarked on residential side marked on park side as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines for specification guidance on streetscape element selections and pavement types. Locations: At key locations identified by LMCC, including bus stop/drop zone.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops areas.

Bike Racks:
Type: Swansea standard bike rack selection, refer to the Swansea Streetscape Technical Guidelines. Locations: At the connecting footpath into the swim centre.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines. Other open space pavements: Property driveway crossovers in grey concrete broom finish.

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey turf planting to verge. Small to medium size trees under powerlines on Quinn Park side and 2 rows of large native trees on the western side. Spacing: 10m centres typical. Where crossovers occur, tree locations to be adjusted. Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services. Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines.

GALGABBA STREET
ZONE: R3 & RE1

LOCATION AND PLANTING OF TREES ON NATURE STRIP
TO BE COORDINATED WITH EXISTING AND ANY PROPOSED UNDERGROUND SERVICES.

1.5m WIDE FOOTPATH SET 1M OFF PROPERTY LINE

ALL TREES TO BE PROVIDED WITH TYPICAL LMCC TREE GUARD

TURF PLANTING UNDER TREES AND BETWEEN PATHWAY AND PROPERTY LINE

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SWANSEA   STREETSCAPE MASTER PLAN

LAKE ROAD
ZONE: R3

DESCRIPTION
Located between Pacific Highway and Macquarie Street, an extension of Street type 2. This street provides a major linkage and route from Pacific Highway to Swansea foreshore. It is important to maintain an attractive and efficient treatment to this area.

OBJECTIVES
To create a residential streetscape with pathways and grass verges.
To encourage large tree planting to create vistas and provide shade to the street.

EXISTING CONSTRAINTS
Patchwork of existing paving types.
In-ground services, open storm water drains, overhead power lines and power poles.

DESIGN RESPONSE
To provide 1.5m wide pathway 1m off the kerb on both sides of the street.
To provide for appropriate safety elements like tactile indicators, pram ramps.
To comply with CPTED - Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Road reserve width: 20m.
Verge width: 3.3m with 1.5m wide pathway on both sides of the road.
Parking lane: unmarked and as per RMS guidelines.

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC.
Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stop areas.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Other open space pavements: Property driveway crossovers in grey concrete broom finish

Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey turf planting to verge.
Small to medium size trees on north side under power lines. Large native trees on the southern side.
Spacing: 10m centres typical. Where crossovers occur, tree locations to be adjusted.
Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.
Tree Guards: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines

1.5m wide footpath set 1m off property line
Seating and Bin location to be determined during detail design stage
MACQUARIE STREET
ZONE: R3

DESCRIPTION
This Street type runs north south between Belmont and Lake streets. Residential zones on both sides.

OBJECTIVES
To create a residential streetscape with pathway and grass verge. To encourage large tree planting to create vistas and provide shade to the street.

EXISTING CONSTRAINTS
Patchwork of existing paving types. In-ground services, overhead power lines and power poles.

DESIGN RESPONSE
To provide 1.5m wide pathway 1m off the kerb on the west side of the street. To provide total grassed verge on the east side of the street. To provide for appropriate safety elements including tactile indicators and pram ramps.

TYPICAL DIMENSIONS
Road reserve width: 20m. Western Verge width: 1.5m wide pathway 1m off property line. Eastern Verge width: No pathway. Totally grass verge. Parking lane: unmarked as per RMS guidelines.

STREET PLANTING
Trees: Street trees and turf understorey to verge. Small to medium size trees on west side under power lines. Large native trees on east side. Spacing: At 10m centres typical. Where crossovers occur, tree locations to be adjusted. Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.

TREE GUARDS: LMCC standard tree guard, paint finish as specified in the Swansea Streetscape Technical Guidelines

PLAN - MACQUARIE STREET 1:800@A3

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

Refer to the Swansea Streetscape Technical Guidelines for specification guidance on streetscape element selections and pavement types.

FURNITURE
Seats:
Type: Swansea standard selection, refer to the Swansea Streetscape Technical Guidelines
Locations: At key locations identified by LMCC.
Provide seating at a maximum of 60m intervals to comply with disabled/ageing requirements.

Waste & Recycling Receptacles – Bins:
Locations: At existing and key locations including Bus Stops / drop off zones.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines. Other open space pavements Property driveway crossovers in grey concrete broom finish.
Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

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JOSEPHSON LANEWAY

ZONE: B2

DESCRIPTION
This street type is a lane way between Pacific Highway and Josephson Street along car parking areas.

OBJECTIVES
To create a strong pedestrian connection between the streets.
To encourage movement by providing a safe and attractive environment and providing clear sight lines for pedestrians.
To provide art installation opportunities.

EXISTING CONSTRAINTS
Narrow pathway.
Over growth of trees with low limbs.

DESIGN RESPONSE
To provide a 1.8m wide concrete pathway.
To provide tall trees with clear trunks for clear sight lines.
To provide mulched soft areas and understorey planting.
To provide for appropriate safety elements like tactile indicators, pram ramps.
To comply with CPTED - Crime Prevention Through Environmental Design principles.

TYPICAL DIMENSIONS
Lane way width: 3.5m.
Verge width: 1m mulched / planted sides.

PLAN - JOSEPHSON LANE WAY 1:800@A3

MATERIALS AND FURNITURE SELECTION
The following provides general guidelines for the location of furniture elements. Specific locations for furniture items are to be determined by LMCC at detailed design stage. Additional furniture items may be required for some developments.

REFER TO THE SWANSEA STREETSCAPE TECHNICAL GUIDELINES FOR SPECIFICATION GUIDANCE ON STREETSCAPE ELEMENT SELECTIONS AND PAVEMENT TYPES.

FURNITURE
Locations: At key locations identified by LMCC.

Waste & Recycling Receptacles – Bins.
Locations: At key locations including the start and end of lane way.

PAVEMENT
Footpath:
Body: In-situ concrete pavement to LMCC guidelines.
Tactile:
Tactile Ground Surface Indicator (TGSI): integrated pavers set-out to AS1428.4.

STREET PLANTING
Trees:
Street trees and understorey planting to verge.
Spacing: Grouping of max. 3 trees and not exceeding 15m between groups.
Location and planting of trees on nature strip to be coordinated with existing and any proposed underground services.
Tree Guards: N/A
Custom Design Elements

SEATING

SEAT TYPE 1 - PLAN  1:25@A3

'S' shaped precast concrete seat, top section polished finish with smooth curved edges.

50mm ring band recessed 10mm
Concrete acid etched finish to lower section

SEAT TYPE 1 - ELEVATION  1:25@A3

'Pod' shaped precast concrete seat, top section polished finish with smooth curved edges.

SEAT TYPE 2 - PLAN  1:25@A3

Section of seat with back rest and arm rest.
Timber slats fixed on set down concrete base with gal steel frame.

SEAT TYPE 2 - ELEVATION  1:25@A3

Back rest to section of seat.
Timber slats fixed on set-down concrete base with gal steel frame.

SEAT TYPE 2 - SECTION  1:25@A3

Section of seat with back rest and arm rest.
Timber slats fixed on set down concrete base with gal steel frame.

SEAT TYPE 3 - PLAN  1:25@A3

In situ concrete seat surface on corner 450mm high with acid etched finish.

SEAT TYPE 3 - ELEVATION  1:25@A3

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats

SEAT TYPE 3 - ELEVATION  1:25@A3

Signature banding on all seats

SEATING

450 mm
450 mm
1340 mm
670 mm
50mm ring band recessed 10mm
Concrete acid etched finish to lower section

50mm ring band recessed 10mm
Concrete acid etched finish to lower section

In situ concrete seat surface on corner 450mm high with acid etched finish.

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats

In situ concrete seat surface on half the length of seat with acid etched finish.
Signature banding on all seats
316 marine grade stainless steel panel 3mm thick with laser cut design and fixed to two sides of tree guard. For posts and side rails, refer to Streetscape Technical Guidelines.

Potential to introduce public art along the promenade that tells ‘Swansea’ story, its historical importance and the stages of development through to modern day Swansea.

Custom Design Element:
Belmont Street Promenade - Section 1:50 @A3

Swansea Channel

Grassed Area

PROMENADE - PLAN 1:200 @A3

Custom Seating Type 2. Refer to page 17

600mm banding in foreshore pavement

Edge of Promenade with possible interpretive signage plaques.

3m wide Shared Pathway

Feature element along edge of Promenade @ 12m centres. Recycled timber sleepers, 4 nos bound together to make a 400x400 element and clamped with Gal steel rings. Fixed in angle to give the robust ‘sea-side-harbour’ look. Lumière fixing in notch to detail design.

Pedestrian lighting along shared pathway. Refer to Streetscape Technical Guidelines.

Banners mounted on light poles. Refer Streetscape Technical Guidelines.

Custom Design Tree Guard

CUSTOM DESIGN TREE GUARD 1:25 @A3

COMMERCIAL BUSINESSES

FOOTPATH

PARKING LANE

PACIFIC HIGHWAY

SECTION SHOWING TREE GUARDS ON PACIFIC HIGHWAY 1:75 @A3
BIKE RACKS AND FEATURE WALLS

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

900 mm

800 mm

800 mm

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

316 marine grade stainless steel 48mm dia tubular frame, bolted to concrete base. Refer to Streetscape Technical Guidelines for details.

Feature wall rendered. Possible surface to allow for artistic graphics.

Mass planting to garden beds along pathway.

Organic mulch to beds in pavement. Possible location to install public art elements.

Custom seat type 3 refer page 18

KEY PLAN - JOSEPHSON LANE  NTS @A3

LANEWAY PART ELEVATION 1:250 @ A3

LANEWAY PART PLAN 1:250 @ A3
Street Tree Master Plan

DESCRIPTION
This plan identifies street trees to be planted as part of implementation of this plan and in consultation with the LMCC Town Centres DCP No 1 PART 3.3 Urban Centre development adopted by council 10 Feb 2014.

Street trees provide many benefits in an urban environment. They provide shade, reducing heat on the street and surrounding buildings. They provide habitat for native fauna. They change throughout the year with flowers, fruit and leaves, creating visual interest. They create a pleasant environment in which to spend time.

Typical spacings as well as proposed locations for trees within the road reserve have been detailed within the street types, sheets 3 - 16. The locations shown in street type plans are guidelines only and will be determined at the time of detail design. Allow for at least one tree at 10m centres. Where crossovers occur, tree location is to be adjusted.

Typical nature strip planting needs to be shared with underground services including power, gas, water, communications, and storm water. Wherever possible, the determined location for tree planting is to be considered in consultation with all services.

OBJECTIVES
To provide a pleasant, tree-lined space.
To differentiate the town centre in a formal style.
To highlight special areas of the town centre with different planting.
To use local native trees, where appropriate.
To provide small to medium size trees under overhead power lines.

EXISTING CONSTRAINTS
Overhead power lines.
Undeveloped lots and lack of kerbing, guttering, open drain and footpaths.

CRITERIA
- Local native species.
- Evergreen or deciduous in specific locations.
- Flowers - for show and native fauna value.
- Potential flower, fruit and branch drop.
- Tolerance of high level of saline ground water.
- All plant selection to be in consultation with this Master Plan, LMCC Technical Guidelines and approval from Community Planning Asset Management.