
ASSET MANAGEMENT PLAN

Roads 2025-2035

June 2025

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1. EXECUTIVE SUMMARY

Our community relies on a diverse portfolio of infrastructure assets, including Roads, Footpaths, Kerb & Gutter, Drainage, Buildings, Retaining Walls, and Open Space assets, valued at approximately \$1,967,042,000.

The Asset Management Plan (AM Plan) provides a strategic framework for managing our community's infrastructure assets, ensuring they remain safe, reliable, and capable of meeting current and future demands.

1.1. Purpose of the Plan

The AM Plan aims to:

- Provide a systematic approach to asset management.
- Address critical risks associated with aging infrastructure and limited funding.
- Ensure infrastructure supports the community's social, economic, and environmental goals.

This AM Plan details information about Councils Road Surface and Pavement network with key actions required to maintain service levels, optimise lifecycle costs, and support long-term financial sustainability.

The plan defines the services, how they are provided and what funds are required to provide the services over the 10-year planning period. The AM Plan expenditure forecasts inform the Long-Term Financial Plan which typically considers a 10-year planning period.

1.2. Asset Description

The Road network comprises:

Asset Category	Length (m)	Area (m2)	Replacement Value
Road Surface	282,432	2,566,548	\$98,537,320
Road Pavement - Concrete	25,224	221,859	\$68,333,574
Road Pavement - Flexible	275,977	2,525,384	\$268,792,854
Road Formation	301,201	2,747,244	\$252,860,335
Road Bridge	19	240	\$2,738,852
Road Other	NA	NA	\$55,318,787
TOTAL			\$746,581,724

The above infrastructure assets have replacement value estimated at \$746,581,724.

1.3. Levels of Service

The allocation in the planned budget is sufficient to continue providing these services at current levels for the planning period.

The main service consequences of the planned budget are:

- There is sufficient budget allocated for renewal of assets as they reach the end of life.
- There is sufficient budget in maintenance and operations with minor increase in the future years.
- There is sufficient budget to acquire new assets to meet community needs.

1.4. Future Demand

The factors influencing future demand and the impacts they have on service delivery are created by:

- New roads to support new subdivisions and development.
- There is no foreseeable significant level changes to the road network within the next 10 years.

Within Randwick Council, the road network has adequate capacity to cater for transport needs with very few unformed roads. It is not forecast that new road pavements will be required unless they are required for new subdivision development.

Developments within Randwick Council will be required to support the objective of the NSW Department of Planning, Industry and Environment (DPIE) to increase the population which is forecast to increase by 13.5% between 2024 and 2035 as estimated in the 2024 Population Statement by the Federal Government Centre for Population. Major developments will deliver new roads that Council will manage in the future.

These demands will be approached using a combination of managing existing assets, upgrading existing assets, accepting road dedications and providing new assets to meet demand. Demand management practices may also include a combination of non-asset solutions to ensure against risks and avoid failures by:

- Balancing priorities for infrastructure with community needs
- Assess capacity to fund alternate levels of service

1.5. Lifecycle Management Plan

How we plan to manage and operate the assets at the agreed levels of service throughout their lifecycle is contingent on 10-year Long-Term Financial Plan (LTFP).

Furthermore, when Roads commits to the upgrade of existing and acquisition of new assets, future operations, maintenance and renewal costs including depreciation will increase.

1.5.1. What does it Cost?

The lifecycle costs necessary to provide the services covered by this AM Plan include operations, maintenance, renewal and upgrade of existing assets, and the acquisition of new assets to meet demand. Disposal of assets is also considered.

When lifecycle costs are prepared for a minimum 10-year planning period, they can be used to inform the 10-year LTFP. The first 10-year lifecycle forecast is estimated to cost \$187,020,192 or \$18,702,018 on average per year.

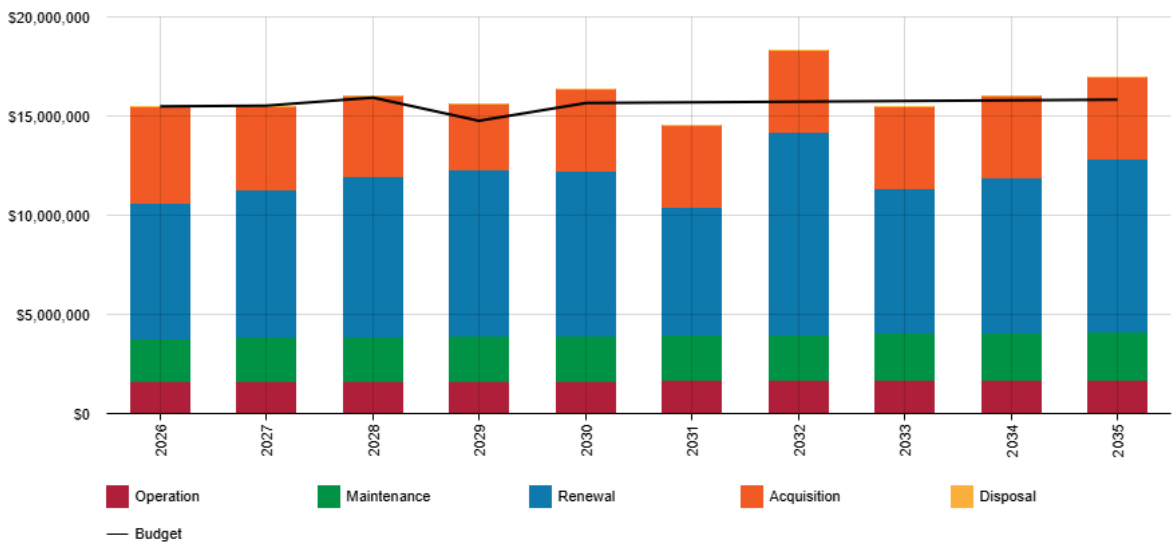
Depreciation is excluded from these cost estimates.

1.5.2. What we will do

The funding made available in the first 10-years' of the LTFP is \$183,097,632 or \$18,309,764 on average per year which is approximately 97.9% of the cost to undertake the lifecycle activities.

The reality is, only what is funded in the LTFP can be provided. Informed decision making depends on the AM Plan emphasising the consequences of planned budgets on the service levels provided and communicating the residual risks. It is important to ensure the organisation is delivering the services in a financially sustainable manner.

The LTFP, on average, for the first 10-years is sufficient to provide services. This is shown in the figure below.



Forecast Lifecycle Costs and Planned Budgets

Amounts are shown in real values (i.e., current values, net of inflation).

We plan to provide road services for the following:

- Operation, maintenance, renewal and acquisition of road surface, pavement and formation to meet service levels set by Randwick City Council in annual budgets.
- Three (3) major junction upgrades within the 10-year planning period.
- Widen laneways throughout the LGA

1.5.3. What we cannot do

We currently allocate enough budget to sustain services at the proposed standard including the provision of new assets. Works and services that cannot be provided under present funding levels are:

- Expansion of road network faster than the currently planned rate
- An accelerated replacement of concrete roads with asphalt pavements
- Continually undertake reactive maintenance only

1.6. Risk Management

The planned budget is sufficient to continue to manage risks in the medium term.

The main risk consequences are:

- Council staff unable to meet service levels due to inadequate funding
- Dilapidated road assets due to lack of planning
- Reduced safety to road users

We will endeavour to manage these risks within available funding by:

- Ensuring asset management practice as set-out by this AMP
- Funding requirements are appropriately allocated, and programs developed
- Continual focus on asset data collection and validation.
- Ongoing dialogue and consultation with the community.

1.7. Financial Summary

Providing financially sustainable and affordable services from infrastructure requires the careful management of service levels, costs and risks.

The 10-year LTFP is \$18,309,764 on average per year giving a 10 year funding shortfall of \$-392,255 per year. This indicates that 97.9% of the forecast costs needed to provide the services documented in this AM Plan are accommodated in the LTFP.

Asset values are forecast to increase as additional assets are added.

1.8. Monitoring and Improvement Program

Key assumptions made in this AM Plan are:

- Asset values and dimensions are correct
- 100% of Council's retaining wall assets have been inspected
- The estimates used for current rates of renewal will remain constant
- Assets requiring renewal are identified from the asset register method

The Asset Register was used to forecast the renewal lifecycle costs for this AM Plan.

This AM Plan is based on a highly reliable level of confidence information.

The next steps resulting from this AM Plan to improve asset management practices are:

- Continue to improve asset register data confidence

- Review resilience of service delivery
- Include priority weighting methodology in maintenance and operation of assets. The four categories include: Condition, Functionality, Usage and Criticality
- Improve proactive maintenance planning and reporting mechanisms
- Establish a Strategic Asset Management system
- Improve council staff awareness of asset management principles

2. INTRODUCTION

2.1. Background

This AM Plan communicates the actions and necessary funds required to sustainably deliver services through the careful management of assets for the foreseeable future.

The AM Plan is to be read with the Roads planning documents. This should include the Asset Management Policy and Strategy, where developed, along with the following planning documents:

- Randwick Community Strategic Plan (CSP)
- Randwick Local Strategic Planning Statement (LSPS)
- Informing Strategies – Arts and Culture, Economic Development, Environment, Housing, Inclusive Randwick, Integrated Transport and Open Space and Recreation
- Randwick Local Environmental Plan
- Randwick Council Resourcing Strategy including the Asset Management Strategy, Long Term Financial Plan, Workforce Management Plan and Digital Strategy
- Delivery Plan and Annual Operational Plans
- Asset Management Plans
- Randwick City Council Community Engagement Strategy

The infrastructure assets covered by this AM Plan include road surface, pavement, and formation constructed using common specifications, namely rigid and flexible roads. For a detailed summary of the assets covered in this AM Plan refer to Table in Section 5.

These assets are used to meet transport demands for various transport modes including public transport, motor vehicles, pedestrians and cyclists.

The infrastructure assets included in this plan have a total replacement value of \$746,581,724.

Key stakeholders in the preparation and implementation of this AM Plan are shown in Table 2.1.

Table 2.1: Key Stakeholders in the AM Plan

Key Stakeholder	Role in Asset Management Plan
Council Representatives	Represent needs of community/shareholders, Allocate resources to meet planning objectives in providing services while managing risks, Ensure service sustainable.
Council Officers	Manage road assets throughout the lifecycle. Ensure level of service provided meets needs of residents and visitors. Implement the components identified in the Road AMP
Residents	Core users of infrastructure assets. Their needs, wants and expectations are conveyed to the Council and should be reflected in desired levels of service.
Visitors	Second largest users of infrastructure assets. Their needs, wants and expectations drive the replacement in areas of the highest visitor usage and commercial areas.
Insurers	Insurers have interest in implementation of systems which allow Council to gain better knowledge of the condition of their assets.

Key Stakeholder	Role in Asset Management Plan
	Systems should be reflected in the number of claims made against each asset group.
Utilities and Other Authorities	Utilise the road reserve to install underground assets. Assist with facilitating traffic control – e.g. traffic signals.

Our organisational structure for service delivery from infrastructure assets is detailed below,



* The Office of the General Manager also provides executive support for the Mayor and Councillors and offers internal auditing to the organisation.

2.2. Principles, Goals and Objectives of Asset Management

The principles of asset management as per the International Standards for asset management are:

- **Value:** asset management focuses on the value assets provide to the organization over time.
- **Alignment:** asset management aligns financial, technical and operational decisions with the organizational objectives, promoting vertical and horizontal coordination.
- **Leadership:** leadership and sustained commitment at all levels are crucial for successful asset management.¹

Our goal for managing infrastructure assets is to deliver the defined level of service (as amended from time to time) in the most cost effective manner for present and future consumers.

The key objectives of infrastructure asset management as defined by the International Infrastructure Management Manual are:

- Defining levels of service and monitoring performance,
- Managing the impact of growth through demand management and infrastructure investment,
- Taking a lifecycle approach to developing cost-effective management strategies for the long-term that meet the defined level of service,

¹ ISO 55000:2024 Asset Management – Vocabulary, overview, and principles

- Identifying, assessing and appropriately controlling risks, and
- Linking to a Long-Term Financial Plan which accommodates the required expenditure and how it will be funded.²

3. LEVELS OF SERVICE

Levels of service define the standards and performance targets that infrastructure assets are expected to meet to ensure they provide reliable, safe, and efficient services to the community.

3.1. Customer Research and Expectations

This AM Plan is prepared to facilitate consultation prior to adoption of levels of service by the Councillors. Future revisions of the AM Plan will incorporate customer consultation on service levels and costs of providing the service. This will assist the Councillors and stakeholders in matching the level of service required, service risks and consequences with the customer's ability and willingness to pay for the service.

We currently have historic understanding of customer expectations. Community satisfaction information has been used in developing the 10-year Randwick Community Strategic Plan and in the allocation of resources in the budget.

3.2. Strategic and Corporate Goals

This AMP is prepared under the direction of the 10-year Randwick Community Strategic Plan and Informing Strategies within the Integrated Planning and Reporting (IPR) framework. This AMP forms part of the Resourcing Strategy.

Strategic goals have been set in the Local Strategic Planning Statement (LSPS). The relevant goals and objectives and how these are addressed in this AM Plan are summarised in Table 3.2.

Table 3.2: Goals and how these are addressed in this Plan

Local Strategic Planning Statement Outcome	Direction	Objective	How Goal and Objectives are addressed in the AM Plan
A city for people	Celebrating diversity and putting people at the heart of planning	Support the delivery of social infrastructure to meet the needs of our diverse community Provide greater access and opportunities for walking and cycling	The Roads Asset Management Plan aligns with Council's Resourcing Strategy, including the Asset Management Strategy, Workforce Plan and Long-Term Financial Plan.
A collaborative city	Working together to grow a greater Sydney	A collaborative approach to guide and manage future growth in Randwick City	Conduct regular condition assessment to plan maintenance and renewal Respond to customer requests within service level agreements. Develop an operational and maintenance plan and allocate funding to carry out remediation work as required

² IPWEA International Infrastructure Management Manual (IIMM), Sec 1.2.1

A city in its landscape	Valuing green spaces and landscape	Provide high quality open space and recreational facilities	The Roads Asset Management Plan includes funding for renewal including provisions for performance monitoring against adopted service level.
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3.3. Legislative Requirements

There are many legislative requirements relating to the management of assets. Legislative requirements that impact the delivery of the roads are outlined in Table 3.3.

Table 3.3: Legislative Requirements

Legislation	Requirement
NSW Local Government Act 1993	<i>Sets out role, purpose, responsibilities, and powers of local government including the preparation of a long-term financial plan supported by asset management plans for sustainable service delivery.</i>
Roads Act 1993	<i>To provide public access to roads, to classify roads, to act as the local road authority, to carry out certain functions e.g. road works and to regulate activities on public roads.</i>
Civil Liability Act 2002 and Civil Liability Amendment (Personal Responsibility) Act 2002	<i>Protects the Council from civil action by requiring the court to consider the financial resources, the general responsibilities of the authority and the compliance with general practices and applicable standards.</i>
Workplace Health and Safety Act 2011	<i>Protecting Works and other persons against harm to their health, safety and welfare through the elimination or minimisation of risks arising from work.</i>
Australian Accounting Standard AASB116	<i>Reporting on asset condition and consumption to Councillors, management, and the community.</i>
Native Vegetation Act	<i>To manage native vegetation, to prevent broad scale clearing, to protect native vegetation, to improve native vegetation and to encourage revegetation of land.</i>
Protection of the Environment Operations Act 1997	<i>A state legislation to protect, restore and enhance the environment in NSW. They provide both the framework for Council decisions that affect the environment and the means of adopting Australia-wide environment protection measures set by the National Environment Protection Council.</i>

3.4. Customer Values

Service levels are defined in three ways, customer values, customer levels of service and technical levels of service.

Customer Values indicate:

- what aspects of the service is important to the customer,
- whether they see value in what is currently provided and
- the likely trend over time based on the current budget provision

Table 3.4: Customer Values

Service Objective: Retaining Wall that is fit for purpose, maintained in a safe and accessible manner.

Customer Values	Customer Satisfaction Measure	Expected Trend Based on Planned Budget
A road that is safe for all road users	Number of claims received	Number of claims is reducing.
A well-maintained road	Satisfaction survey results	Generally satisfactory for current network
A well-connected road network	Satisfaction survey results	Increase in satisfaction score

3.5. Customer Levels of Service

The Customer Levels of Service are considered in terms of:

Condition How good is the service ... what is the condition or quality of the service?

Function Is it suitable for its intended purpose Is it the right service?

Capacity/Use Is the service over or under used ... do we need more or less of these assets?

In Table 3.5 under each of the service measures types (Condition, Function, Capacity/Use) there is a summary of the performance measure being used, the current performance, and the expected performance based on the current budget allocation.

These are measures of fact related to the service delivery outcome (e.g. number of occasions when service is not available or proportion of replacement value by condition %'s) to provide a balance in comparison to the customer perception that may be more subjective.

Table 3.5: Customer Level of Service Measures

Type of Measure	Level of Service	Performance Measure	Current Performance	Expected Trend Based on Planned Budget
Condition	Provide roads that are smooth and free from obvious defects.	Respond to CRM's within SLA timeframe	>90% CRM's inspected within SLA time frame for potholes	Maintain the current performance
			>85% CRM's resolved within SLA timeframe for roads.	Increase % resolved within SLA time frame.
	Routinely inspect the road network	20% of the network to be inspected annually	Achieved	Maintain the current performance
	Confidence levels		Medium	High
Function	Ensure that Council roads meet user requirements for travel time and availability.	Customer satisfaction rating (for maintaining local roads)	3.28 satisfaction survey in 2023, down from 3.34 in 2021.	Increase in customer satisfaction survey results.
	Continue to improve the road network to meet community needs	Design and construction of road assets to Council and Australian Standards	Road construction works are designed and funded under the capital works program.	Maintain current approach.
	Confidence levels		Medium	High
Safety	Provide roads free from hazards	Reduce insurance claims due to road hazards.	Public Liability Claims – Pot Holes 21-22 – 73 22-23 – 65 23-24 – 21	Reduce number of claims per annum.
	Confidence levels		Medium	High
Capacity	Utilisation of existing road network to its optimum level with room for expansion.	Customer satisfaction survey results.	3.14 satisfaction survey in 2023, up from 3.12 in 2021.	Increase in customer satisfaction survey results.
	Change of use of road network to include other modes of travel such as cycleways	Customer satisfaction survey results.	The Integrated Transport Strategy identifies various priorities to construct cycleways.	This trend will see the conversion of part of the available vehicular road network to include cycleways.
	Confidence levels		Low	Low

3.6. Technical Levels of Service

Technical Levels of Service – To deliver on the customer values, and impact they have on Customer Levels of Service, are operational or technical measures of performance. These technical measures relate to the lifecycle activities (see Section 5) and allocation of resources to best achieve the desired customer outcomes and demonstrate effective performance.

Technical service measures are linked to the activities and annual budgets covering:

- Acquisition – the activities to provide a higher level of service (e.g. widening a road, sealing an unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously (e.g. a new library).
- Operation – the regular activities to provide services (e.g. opening hours, cleansing, mowing grass, energy, inspections, etc).
- Maintenance – the activities necessary to retain an asset as near as practicable to an appropriate service condition. Maintenance activities enable an asset to provide service for its planned life (e.g. road patching, unsealed road grading, building and structure repairs)
- Renewal – the activities that return the service capability of an asset up to that which it had originally provided (e.g. road resurfacing and pavement reconstruction, pipeline replacement and building component replacement)

Service and asset managers plan, implement and control technical service levels to influence the service outcomes.³

Table 3.6 shows the lifecycle activities related to the current 10 year planned budget, and the forecast costs recommended in this AM Plan.

Table 3.6: Technical Levels of Service

Lifecycle Activity	Purpose of Activity	Activity Measure	Current Performance*	Recommended Performance **
TECHNICAL LEVELS OF SERVICE				
Acquisition	Replace concrete road pavements with asphalt road pavements	Ongoing replacement of concrete roads.	Funded by budget	Maintain current approach
		Budget	\$6,688,000	\$6,688,000
Operations	Routine Street Sweeping. Make sure roads are cleaned and free from debris.	Frequency of cleaning	Scheduled street sweeping cleaning program	Maintain current approach

³ IPWEA, 2015, IIMM, p 2|28.

Lifecycle Activity	Purpose of Activity	Activity Measure	Current Performance*	Recommended Performance **
	Apply a risk management approach to Road inspections	20% to be inspected annually.	20% inspected annually.	Maintain current performance.
		Budget	\$1,702,794	\$1,702,794
Maintenance	Pothole patching to avoid extensive damage to the road pavements.	Respond to CRM's within SLA timeframe.	>90% resolved within SLA time frame	Maintain current performance.
	Road Repairs	Respond to CRM's within SLA timeframe.	>90% resolved within SLA time frame	Maintain current performance.
		Budget	\$2,346,655	\$2,346,655
Renewal	Resurfacing of roads - Road surface to be in satisfactory condition.	Surface condition	Currently 53.6% of road surface is in average to excellent condition.	Satisfied with current performance
	Road pavement to be in satisfactory condition.	Pavement condition	Currently 99% of road surface is in average to excellent condition.	Satisfied with current performance
		Budget	\$7,572,315	\$7,964,570

Note: * Current activities related to planned budget.

** Expected performance related to forecast lifecycle costs.

It is important to monitor the service levels regularly as circumstances can and do change. Current performance is based on existing resource provision and work efficiencies. It is acknowledged that circumstances such as technology and customer priorities will change over time.

4. FUTURE DEMAND

Future demand refers to the anticipated need for infrastructure services driven by factors such as population movement, economic development, technological advancements, and changing environmental or community expectations.

4.1. Demand Drivers

A demand driver refers to the factors or trends that influence the need for infrastructure services and capacity. The factors influencing future demand are created by: population growth/decline, economic development, changes in technology, regulatory requirements, and shifts in community expectations or environmental conditions, etc.

Demand drivers help predict future infrastructure needs and guide planning and investment decisions.

4.2. Demand Forecasts

The current position and projections for demand drivers that may impact future service delivery and use of assets have been identified and documented in Table 4.3.

4.3. Impacts and Demand Management Plan

The impact of demand drivers that may affect future service delivery and use of assets are shown in Table 4.3.

The impact on service delivery will be managed through a combination of managing and upgrading existing assets and the provision of new assets to meet demand. Demand management practices can include non-asset solutions, insuring against risks and managing failures.

Opportunities identified to manage demand are shown in Table 4.3. Further opportunities will be developed in future revisions of this AM Plan.

Table 4.3: Demand Management Plan

Demand driver	Current position	Projection	Impact on services	Demand Management Plan
Population	154,265 (As per Randwick Housing Strategy 2021)	A 13.5% increase between 2024-2035 as estimated in the 2024 Population Statement by the Federal Government Centre for Population	An increase in population will require an increase in community and infrastructure services. Existing services may require amendment to cater for changes in use or increased patronage	The demand of roads for new developments. These demands are managed with each development proposal.
Available modes of alternative transport	Council's Integrated Transport Strategy has identified several high priority routes for on road cycleways	There is \$400,000 budgeted annually for cycleways in the four-year capital works program	Reduced road width, encourages changes in preferred transportation modes.	The majority of cycleways on road are accommodated in the funding of this AMP. Separated cycleways are funded by TfNSW.

Demographics	Randwick City Council has: 20.5% over 60 YO 33.4% in the 20-44 YO group (As of 1 August 2021, ABS)	Greater proportion of 10-20 YO Greater proportion of over 60 YO Decreased proportion of 25-44 YO	Greater need for aged and disability access. Increase in population will require improvements to public transport infrastructure and accessible recreational infrastructure including beaches.	This AMP allows Council to budget for various connectivity improvement projects. Renewal Priority criteria has built-in mechanisms to ensure that Council's road network is built to Accessibility Standards where practicable.
Technology Changes	Changes Materials used for roads construction are concrete or asphaltic products	Seek to reduce environmental impact, improve constructability, relative affordability and longer asset life with reduced maintenance requirements	Potential to reduce maintenance and resource requirements	New and emerging technologies should be assessed for both performance, abilities to improve service and whole of life costs

4.4. Asset Programs to meet Demand

The new assets required to meet demand may be acquired, donated or constructed. Additional assets are discussed in Section 5.4.

Acquiring new assets will commit the Roads to ongoing operations, maintenance and renewal costs, and depreciation expenses for the period that the service provided from the assets is required. These future costs and expenses are identified and considered in developing the long-term financial plan.

4.5. Climate Change Adaptation

The impacts of climate change may have a significant impact on the assets we manage and the services they provide. In the context of the Asset Management Planning process climate change can be considered as both a future demand and a risk that needs to be managed.

How climate change impacts on assets will vary depending on the location and the type of services provided, as will the way in which we respond and manage those impacts.⁴

As a minimum we consider how to manage our existing assets given potential climate change impacts for our region.

Risk and opportunities identified to date are shown in Table 4.5.1

Table 4.5.1 Managing the Impact of Climate Change on Assets and Services

Climate change risk	Projection	Impact on services	Climate Change Management Plan
Increased Rainfall Intensity	Higher chances of flash flooding. Increase in rain intensity, longer drought period	Higher rainfall intensity will likely result in more damage to road surfaces leading to potholes and potential damage to the pavement	Ongoing road resurfacing will maintain the wearing course free of cracks preventing water infiltration and formation of potholes.

⁴ IPWEA Practice Note 12.1 Climate Change Impacts on the Useful Life of Infrastructure

Need to be carbon neutral	Civil works are high carbon emitting activities. Seek to reduce carbon emission from civil works	Maintain or reduce the energy required to undertake road construction activities.	Use of warm mix instead of hot mix to reduce energy consumption. Use of recycled asphalt, recycled glass and recycled rubber in the asphalt mix to help create a circular economy.
Heat island effect	Increase in native tree planting	Longer drought period may make it harder for plants to survive. Greening of Randwick will help reduce the temperature along road reserves.	Choose to plant native and drought tolerant trees in the nature strip of a road reserve. Choose less invasive tree species to help ensure asset integrity.

Additionally, the way in which we construct new and upgrade existing assets should recognise that there is opportunity to build in resilience to climate change impacts. Building resilience can have the following benefits:

- Assets will withstand the impacts of climate change;
- Services can be sustained; and
- Assets that can endure may potentially lower the lifecycle cost and reduce their carbon footprint.

Table 4.5.2 summarises opportunities to build climate change resilience into new and existing assets.

Table 4.5.2 Building Climate Change Resilience into New and Existing Assets

Asset Description	Climate change risk	Resilience Plan for New Assets	Resilience Plan for Existing Assets
Concrete Road	Salt attack from sea breeze	Inspect every 5 years from construction, assess in accordance with condition rating tables in Section 5.1.3	Inspect every 5 years from construction, assess in accordance with condition rating tables in Section 5.1.3
Flexible Road Pavement	Very hot days can melt asphaltic binder	Improve green infrastructure along roadside to create better shade, reducing road surface temperature.	Inspect every 5 years from construction, assess in accordance with condition rating tables in Section 5.1.3

The impact of climate change on new and existing assets is evolving and new opportunities will be developed in future revisions of this AM Plan.

5. LIFECYCLE MANAGEMENT PLAN

The lifecycle management plan details how the Roads plans to manage and operate the assets at the agreed levels of service (Refer to Section 3) throughout their entire lifecycle, from acquisition or creation to disposal. The goal is to maximise the value of the assets while minimising costs and risks, ensuring they continue to meet performance requirements over time.

From a financial perspective, infrastructure activities tend to be classified as being either Operating or Capital. The lifecycle activities used in the asset management and financial planning and reporting process cover:

■ **Capital**

- **Acquisition** – the activities to provide a higher level of service (e.g., widening a road, sealing an unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously (e.g. a new library).
- **Renewal** – the activities that replace or restore assets to the standard it had originally provided (e.g., road resurfacing and pavement reconstruction, pipeline replacement and building component replacement).

■ **Operating**

- **Operations** - the routine activities that keep services accessible and effective, balancing efficiency with user expectations (e.g. opening hours, cleansing, mowing grass, energy, inspections, etc.)
- **Maintenance** – the preventative and corrective actions to sustain asset functionality and minimise unexpected failures. Maintenance activities enable an asset to provide service for its planned life (e.g., road patching, unsealed road grading, building and structure repairs).
- **Disposal** – the decommissioning, removing, or repurposing of assets that are no longer cost-effective, safe, or necessary (e.g. shutting down an old water treatment plant, demolishing unsafe buildings, dismantling old bridges, etc.).

A pictorial representation of the asset lifecycle activities is shown below in Figure 5.0.



Figure 5.0: Asset Lifecycle Activities

5.1. Background Data

5.1.1. Physical parameters

The assets covered by this AM Plan are shown in Table 5.1.1.

Table 5.1.1: Assets covered by this Plan

Asset Category	Length (m)	Area (m2)	Replacement Value
Road Surface	282,432	2,566,548	\$98,537,320
Road Pavement - Concrete	25,224	221,859	\$68,333,574
Road Pavement - Flexible	275,977	2,525,384	\$268,792,854
Road Formation	301,201	2,747,244	\$252,860,335
Road Bridge	19m	240m2	\$2,738,852
Road Other	NA	NA	\$55,318,787
TOTAL			\$746,581,724

The age profile of the assets included in this AM Plan are shown in Figure 5.1.1.

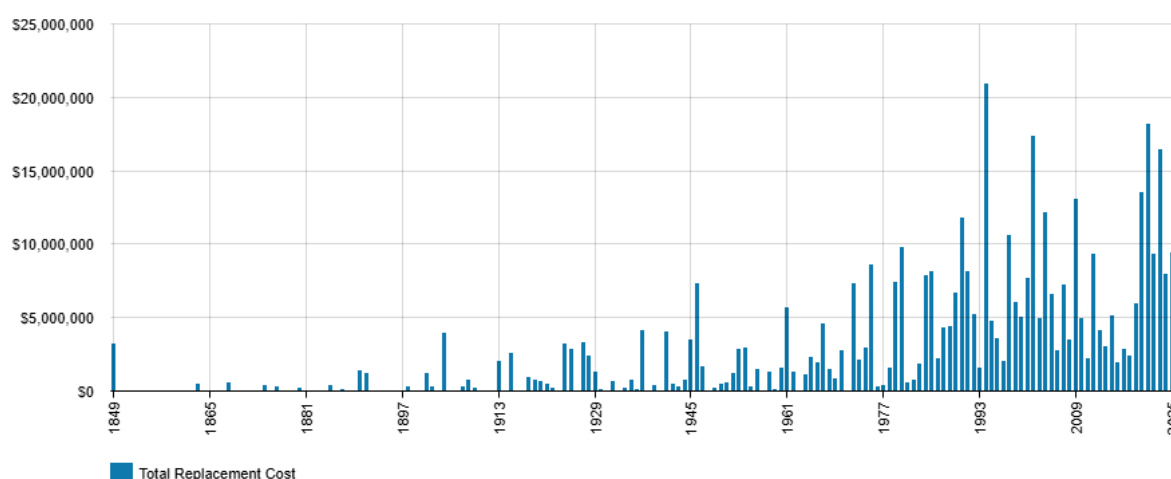


Figure 5.1.1: Asset Age Profile

Amounts are shown in real values (i.e., current values, net of inflation).

As shown in figure 5.1.1 the investment in roads has been consistent, with the assets acquired or renewed rising as it reaches the current year. Spikes are generally artificial and are caused through calculating the age where data isn't available. A focus of this planning period will be on resurfacing and extending the useful life of Councils assets.

5.1.2. Asset capacity and performance

Assets are generally provided to meet design standards where these are available.

There are no deficiencies identified in the retaining wall asset class.

5.1.3. Asset condition

Condition is currently monitored by inspection of 20 percent of the network every year. The condition assessment of retaining wall assets is encompassed within this plan.

Condition is measured using a 1 – 5 grading system⁵ as detailed in Table 5.1.3. It is important that a consistent approach is used in reporting asset performance enabling effective decision support. A finer grading system may be used at a more specific level, however, for reporting in the AM plan results are translated to a 1 – 5 grading scale for ease of communication.

Table 5.1.3: Condition Grading System

Condition Grading	Description of Condition
1	Very Good: free of defects, only planned and/or routine maintenance required
2	Good: minor defects, increasing maintenance required plus planned maintenance
3	Fair: defects requiring regular and/or significant maintenance to reinstate service
4	Poor: significant defects, higher order cost intervention likely
5	Very Poor: physically unsound and/or beyond rehabilitation, immediate action required

The condition profile of our assets is shown in Figure 5.1.3.

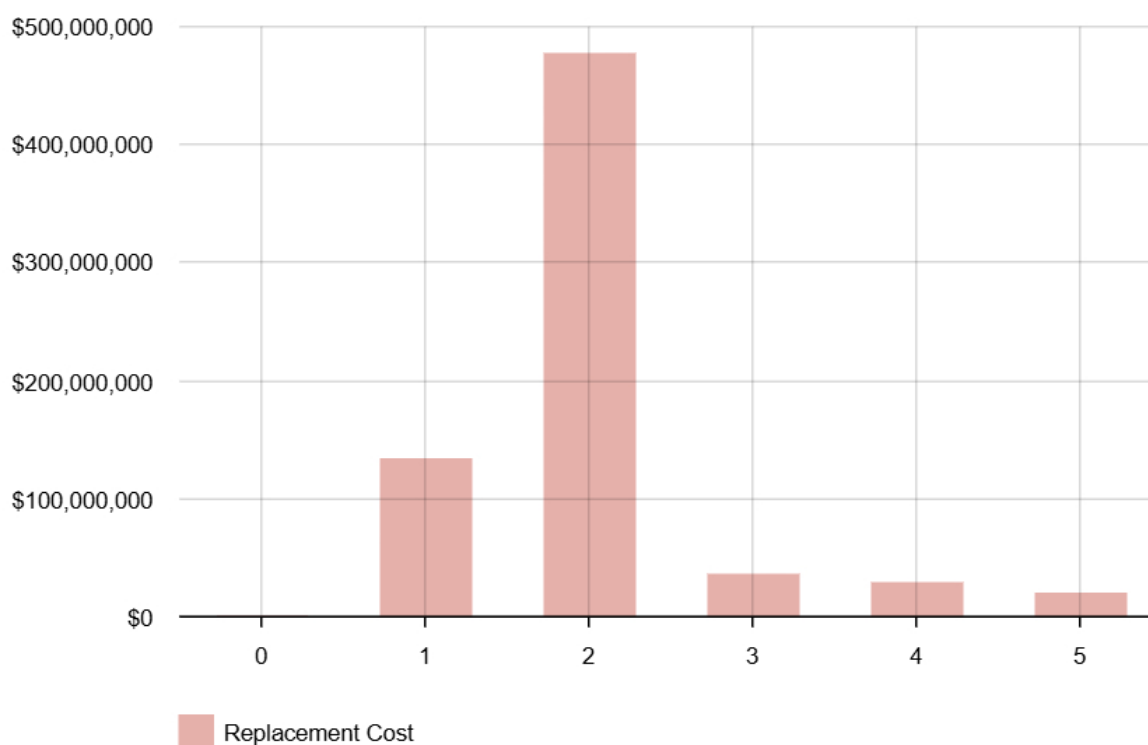


Figure 5.1.3: Asset Condition Profile

All figure values are shown in current (real) dollars.

⁵ IPWEA, 2015, IIMM, Sec 2.5.4, p 2|80.

The current asset conditions are good with most asset conditions assessed to be generally in good condition. The road surface distribution is well balanced with crests on the ends of the spectrum. The current asset condition is considered to be good as the poor condition assets are manageable under this AMP. This signifies the transition from very old assets to new asset has occurred through past capital works programs.

Should these good assets not be maintained, there will be large spike of renewal requirement in the long term. Management of these assets to extend the lifespan may change the asset renewal timeframe. Other lifecycle methods would be to bring forward or delay some of the renewal times based on a risk assessment approach

5.2. Operations and Maintenance Plan

Operations include regular activities to provide services. Examples of typical operational activities include cleaning, street sweeping, asset inspection, and utility costs.

Maintenance includes all actions necessary for retaining an asset as near as practicable to an appropriate service condition including regular ongoing day-to-day work necessary to keep assets operating. Examples of typical maintenance activities include pipe repairs, asphalt patching, and equipment repairs.

The trend in maintenance budgets are shown in Table 5.2.1.

Table 5.2.1: Maintenance Budget Trends

Year	Maintenance Budget \$
2024	\$2,207,890
2025	\$2,207,890
2026	\$2,207,890

Maintenance budget levels are considered to be adequate to meet projected service levels, which may be less than or equal to current service levels. Where maintenance budget allocations are such that they will result in a lesser level of service, the service consequences and service risks have been identified and are highlighted in this AM Plan and service risks considered in the Infrastructure Risk Management Plan.

Assessment and priority of reactive maintenance is currently undertaken by staff using experience and sound professional judgement. There is an inherent risk in depending on staff to use experience. The risk is identified in the Section 6 under Risk Management. The improvement plan in Section 8.4 also indicates an improvement on the prioritisation methodology.

Asset hierarchy

An asset hierarchy provides a framework for structuring data in an information system to assist in collection of data, reporting information and making decisions. The hierarchy includes the asset class and component used for asset planning and financial reporting and service level hierarchy used for service planning and delivery.

The service hierarchy is shown in Table 5.2.2.

Table 5.2.2: Asset Service Hierarchy

Service Hierarchy	Service Level Objective
Road Surface	To inspect, assess, make the asset safe within 24 hours of reporting. Plan the rectification to reduce reconstruction costs. Include major works in capital works programs.
Road Pavement	To inspect, assess, make the asset safe within 24 hours of reporting. Plan the rectification to reduce reconstruction costs. Include major works in capital works programs.

Summary of forecast operations and maintenance costs

Forecast operations and maintenance costs are expected to vary in relation to the total value of the asset stock. If additional assets are acquired, the future operations and maintenance costs are forecast to increase. If assets are disposed of the forecast operation and maintenance costs are expected to decrease. Figure 5.2 shows the forecast operations and maintenance costs relative to the proposed operations and maintenance Planned Budget.

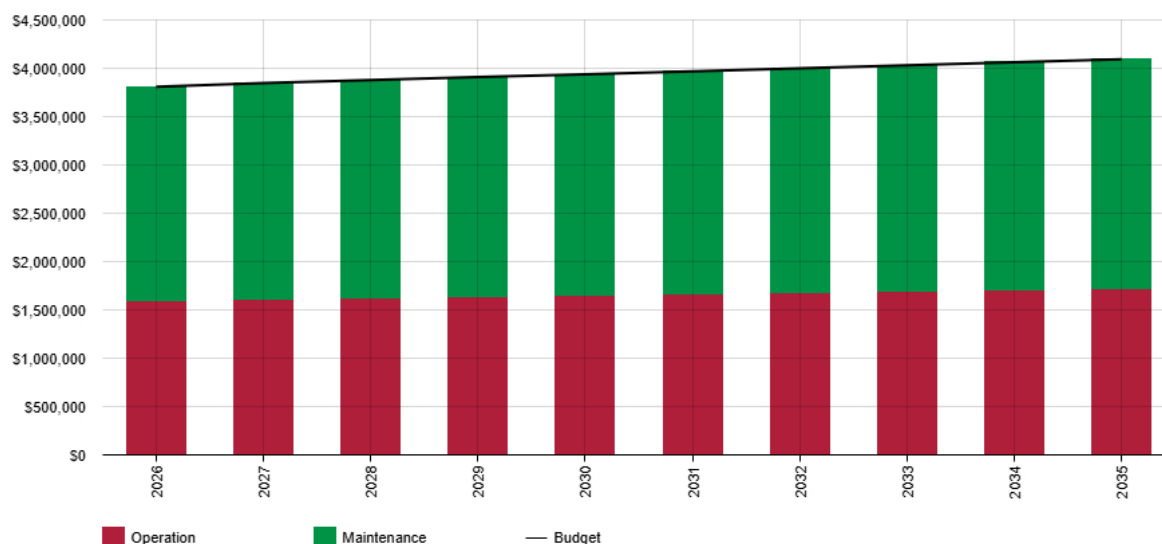


Figure 5.2: Operations and Maintenance Summary

Amounts are shown in real values (i.e., current values, net of inflation).

The forecast operations and renewal costs are in line with the proposed operations budget. However, with the growing cost of material, labour, and new acquisitions, it is likely that the budget for future operations and maintenance will require review every 5 years to keep up with the growing cost. The increase in maintenance cost while insignificant, will create deferred maintenance items causing increased deterioration rate and a shorter lifespan of assets.

5.3. Renewal Plan

Renewal is major capital work which does not significantly alter the original service provided by the asset, but restores, rehabilitates, replaces or renews an existing asset to its original service potential. Work over and above restoring an asset to original service potential is considered to be an acquisition resulting in additional future operations and maintenance costs.

Assets requiring renewal are identified from one of two approaches in the Lifecycle Model.

- The first method uses Asset Register data to project the renewal costs (replacement cost) and renewal timing (acquisition year plus updated useful life to determine the renewal year), or
- The second method uses an alternative approach to estimate the timing and cost of forecast renewal work (i.e. condition modelling system, staff judgement, average network renewals, or other).

The typical useful lives of assets used to develop projected asset renewal forecasts are shown in Table 5.3. Asset useful lives were last reviewed on 30 June 2023.⁶

Table 5.3: Useful Lives of Assets

Asset (Sub)Category	Useful life
Road Surface – Regional Road	30

⁶ Enter Reference to Report documenting Review of Useful Life of Assets

Road Surface – Local Road	35
Road Surface – Lane	45
Road Pavement	120

The estimates for renewals in this AM Plan were based on the [asset register or an alternate Method].

5.3.1. Renewal ranking criteria

Asset renewal is typically undertaken to either:

- Ensure the reliability of the existing infrastructure to deliver the service it was constructed to facilitate (e.g. replacing a bridge that has a 5 t load limit), or
- To ensure the infrastructure is of sufficient quality to meet the service requirements (e.g. condition of a playground).⁷

It is possible to prioritise renewals by identifying assets or asset groups that:

- Have a high consequence of failure,
- Have high use and subsequent impact on users would be significant,
- Have higher than expected operational or maintenance costs, and
- Have potential to reduce life cycle costs by replacement with a modern equivalent asset that would provide the equivalent service.⁸

The ranking criteria used to determine priority of identified renewal proposals is detailed in Table 5.3.1.

Table 5.3.1: Renewal Priority Ranking Criteria

Criteria	Weighting
Community – Function	30%
Community – Quality	5%
Technical – Condition	30%
Technical – Risk of Failure	20%
Technical – Operating/Maintenance and lifecycle costs	10%
Total	100%

5.3.2. Summary of future renewal costs

Forecast renewal costs are projected to increase over time if the asset stock increases. The forecast costs associated with renewals are shown relative to the proposed renewal budget in Figure 5.3.2. A detailed summary of the forecast renewal costs is shown in Appendix D.

⁷ IPWEA, 2015, IIMM, Sec 3.4.4, p 3|91.

⁸ Based on IPWEA, 2015, IIMM, Sec 3.4.5, p 3|97.

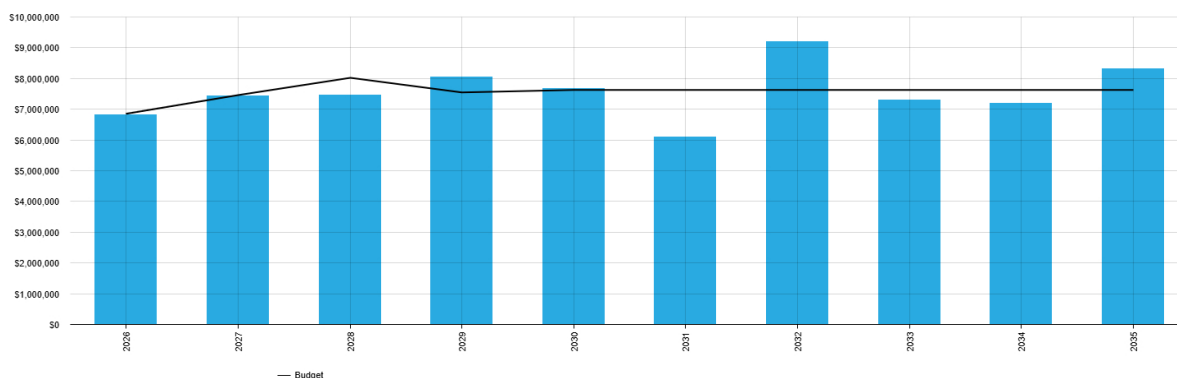


Figure 5.3.2: Forecast Renewal Costs

Amounts are shown in real values (i.e., current values, net of inflation).

The forecast renewal costs are generally below the proposed renewal budget. As an average, this is an indicator that there is sufficient funding for renewal of assets in the next 10 years. The surplus captured under renewal is sufficient to cater for renewal projects in the next 10 years.

5.4. Acquisition Plan

Acquisition reflects are new assets that did not previously exist or works which will upgrade or improve an existing asset beyond its original service level. They may result from growth, demand, social or environmental needs. Assets may also be donated to Randwick City Council.

5.4.1. Selection criteria

Proposed acquisition of new assets, and upgrade of existing assets, are identified from various sources such as community requests, proposals identified by strategic plans or partnerships with others. Potential upgrade and new works should be reviewed to verify that they are essential to the Entities needs. Proposed upgrade and new work analysis should also include the development of a preliminary renewal estimate to ensure that the services are sustainable over the longer term. Verified proposals can then be ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is detailed in Table 5.4.1.

Table 5.4.1: Acquired Assets Priority Ranking Criteria

Criteria	Weighting
Safety	25%
Community Expectation	15%
Lifecycle Cost	25%
Community Benefits (Usage, population, future development)	35%
Total	100%

5.4.2. Summary of future asset acquisition costs

Forecast acquisition asset costs are summarised / summarized in Figure 5.4.1 and shown relative to the proposed acquisition budget. The forecast acquisition capital works program is shown in Appendix A.

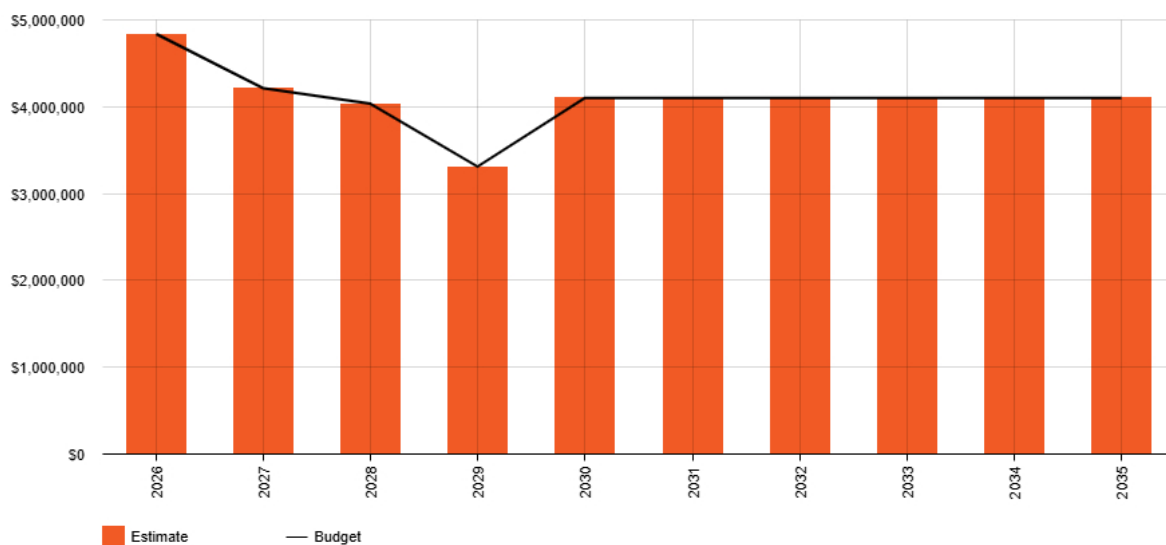


Figure 5.4.1: Acquisition (Constructed) Summary

Amounts are shown in real values (i.e., current values, net of inflation).

When an Entity commits to new assets, they must be prepared to fund future operations, maintenance and renewal costs. They must also account for future depreciation when reviewing long term sustainability. When reviewing the long-term impacts of asset acquisition, it is useful to consider the cumulative value of the acquired assets being taken on by the Entity. The cumulative value of all acquisition work, including assets that are constructed and contributed shown in Figure 5.4.2.

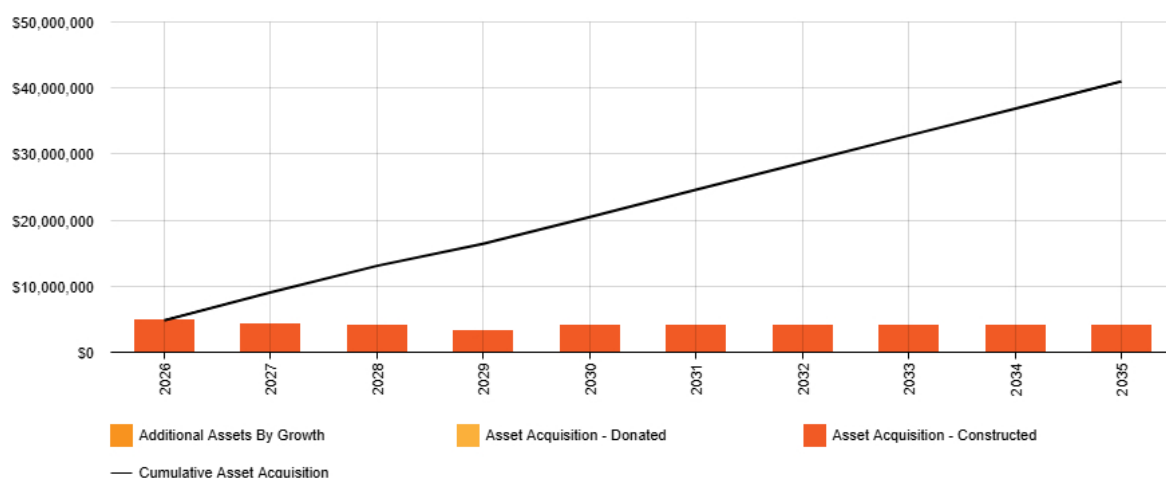


Figure 5.4.2: Acquisition Summary

Amounts are shown in real values (i.e., current values, net of inflation).

Expenditure on new assets and services in the capital works program will be accommodated in the long-term financial plan, but only to the extent that there is available funding.

The planned acquisitions or upgrades will be constructed roads and associated assets from Council's capital works program. This will include lane widening, traffic facility installations, construction of cycleways, junction and town centre upgrades, amongst other works.

There may be some donated / dedicated assets by means of civil works from developments undertaken in the LGA.

5.5. Disposal Plan

Disposal includes any activity associated with the disposal of a decommissioned asset including sale, demolition, or relocation. Costs incurred from early disposal of assets were not included in this asset management plan. The cost incurred will be the residual values of the assets being renewed prior to the end of life. Depending on the performance of such assets, their values can be fully actualised prior to the end of life. There are currently no assets being identified for possible decommissioning and disposal.

5.6. Summary of asset forecast costs

The financial projections from this asset plan are shown in Figure 5.6. These projections include forecast costs for acquisition, operation, maintenance, renewal, and disposal. These forecast costs are shown relative to the proposed budget.

The bars in the graphs represent the forecast costs needed to minimise the life cycle costs associated with the service provision. The proposed budget line indicates the estimate of available funding. The gap between the forecast work and the proposed budget is the basis of the discussion on achieving balance between costs, levels of service and risk to achieve the best value outcome.

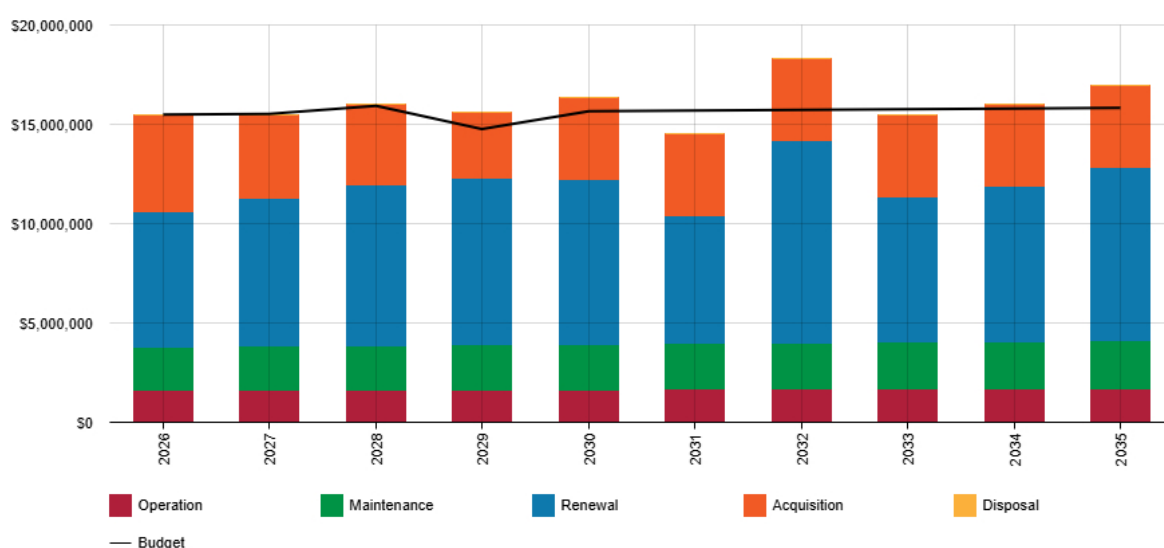


Figure 5.6: Lifecycle Summary

Amounts are shown in real values (i.e., current values, net of inflation).

The forecast costs of the asset class are generally in line or slightly the proposed budget. Overall, the proposed budget is currently providing approximately 97.9% of the forecast costs. The budget seems to be sustainable with a small shortfall.

6. RISK MANAGEMENT PLANNING

The purpose of infrastructure risk management is to document the findings and recommendations resulting from the periodic identification, assessment and treatment of risks associated with providing services from infrastructure, using the fundamentals of International Standard ISO 31000:2018 Risk management – Principles and guidelines.

Risk Management is defined in ISO 31000:2018 as: ‘coordinated activities to direct and control with regard to risk¹⁹’.

¹⁹ ISO 31000:2009, p 2

An assessment of risks¹⁰ associated with service delivery will identify risks that will result in loss or reduction in service, personal injury, environmental impacts, a 'financial shock', reputational impacts, or other consequences. The risk assessment process identifies credible risks, the likelihood of the risk event occurring, and the consequences should the event occur. The risk assessment should also include the development of a risk rating, evaluation of the risks and development of a risk treatment plan for those risks that are deemed to be non-acceptable.

6.1. Critical Assets

Critical assets are defined as those which have a high consequence of failure causing significant loss or reduction of service. Critical assets have been identified and along with their typical failure mode, and the impact on service delivery, are summarised in Table 6.1. Failure modes may include physical failure, collapse or essential service interruption.

¹⁰ REPLACE with Reference to the Corporate or Infrastructure Risk Management Plan as the footnote

Table 6.1 Critical Assets

Critical Asset(s)	Failure Mode	Impact
Road wearing course / pavement	Potholes.	Loss or reduction of service, restricted access, injuries to users or property damage
Road pavement	Edge breaks, rutting/shoving	Loss or reduction of service, injuries to users or property damage
Road surface	Reduced traction due to flushing or polishing	Injuries / casualties to users or property damage.
Road bridge	Corrosion, Collapse	Casualties to users, property damage, loss, or reduction of service and restricted access.

By identifying critical assets and failure modes an organisation can ensure that investigative activities, condition inspection programs, maintenance and capital expenditure plans are targeted at critical assets.

6.2. Risk Assessment

The risk management process used is shown in Figure 6.2 below.

It is an analysis and problem-solving technique designed to provide a logical process for the selection of treatment plans and management actions to protect the community against unacceptable risks.

The process is based on the fundamentals of International Standard ISO 31000:2018.

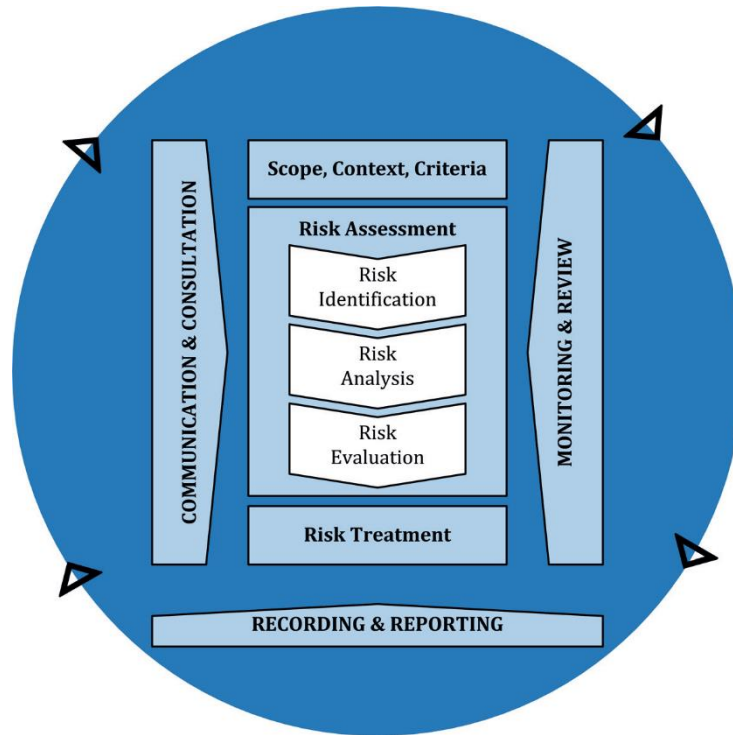


Fig 6.2 Risk Management Process – Abridged
Source: ISO 31000:2018, Figure 1, p9

The risk assessment process identifies credible risks, the likelihood of the risk event occurring, the consequences should the event occur, development of a risk rating, evaluation of the risk and development of a risk treatment plan for non-acceptable risks.

An assessment of risks¹¹ associated with service delivery will identify risks that will result in loss or reduction in service, personal injury, environmental impacts, a ‘financial shock’, reputational impacts, or other consequences.

Critical risks are those assessed with ‘Extreme’ (requiring immediate corrective action) and ‘High’ (requiring corrective action) risk ratings identified in the Infrastructure Risk Management Plan. The residual risk and treatment costs of implementing the selected treatment plan is shown in Table 6.2. It is essential that these critical risks and costs are reported to management and the Council.

Table 6.2: Risks and Treatment Plans

Risk Factors	Consequence	Likelihood
Personal Injury		Please note likelihood is based on condition assessment
Financial Implications		
Environmental		
Political		

¹¹ REPLACE with Reference to the Corporate or Infrastructure Risk Management Plan as the footnote

Consequence	Risk Descriptions
<i>Catastrophic</i>	Death, toxic release off site with detrimental effect, huge financial loss (>\$100,000), sustained comprehensive negative national media coverage with major loss in community trust
<i>Major</i>	Extensive injuries, loss of production capability, off site release with no detrimental effects, major financial loss (>\$50,000 & <\$100,000), Ongoing negative media coverage in local and metro press with minimal community trust
<i>Moderate</i>	Medical treatment required, on-site release contained with outside assistance, high financial loss (>\$10,000 & <\$50,000), Short period negative media coverage with rigorous community discussion
<i>Minor</i>	First aid treatment, on-site release immediately contained, medium financial loss (>\$1000 & <\$10,000), little or no impact on community's perception of Council
<i>Insignificant</i>	No injuries, low financial loss (<\$1000), no effect to normal operations

Note * The residual risk is the risk remaining after the selected risk treatment plan is implemented.

	CONSEQUENCE				
LIKELIHOOD	Insignificant (2)	Minor (3)	Moderate (7)	Major (13)	Catastrophic (20) Major (13)
Almost Certain (5)	Medium (10)	High (15)	High (35)	Extreme (65)	Extreme (100)
Likely (4)	Medium (8)	Medium (12)	High (28)	High (52)	Extreme (80)
Possible (3)	Low (6)	Medium (9)	High (21)	High (39)	Extreme (60)
Unlikely (2)	Low (4)	Low (6)	Medium (14)	High (26)	High (40)
Rare (1)	Low (2)	Low (3)	Medium (7)	Medium (13)	High (20)

6.3. Infrastructure Resilience Approach

The resilience of our critical infrastructure is vital to the ongoing provision of services to customers. To adapt to changing conditions we need to understand our capacity to 'withstand a given level of stress or demand', and to respond to possible disruptions to ensure continuity of service.

Resilience recovery planning, financial capacity, climate change risk assessment and crisis leadership.

We do not currently measure our resilience in service delivery. This will be included in future iterations of the AM Plan.

6.4. Service and Risk Trade-Offs

The decisions made in adopting this AM Plan are based on the objective to achieve the optimum benefits from the available resources.

6.4.1. What we cannot do

There are some operations and maintenance activities and capital projects that are unable to be undertaken within the next 10 years. These include:

- We cannot continually undertake reactive maintenance only
- We cannot expand the current road network without consideration of lifecycle cost and financial sustainability

6.4.2. Service trade-off

If there is forecast work (operations, maintenance, renewal, acquisition or disposal) that cannot be undertaken due to available resources, then this will result in service consequences for users. These service consequences include:

- Council staff unable to meet service level agreement
- Dilapidated road pavement assets
- Reduced safety to users of the road pavements

6.4.3. Risk trade-off

The operations and maintenance activities and capital projects that cannot be undertaken may sustain or create risk consequences. These risk consequences include:

- Risk of causing harm to motorists, passengers and cyclists from dilapidated road assets e.g. shoving and rutting, low traction roads and inaccessible roads [Enter associated risk consequence]
- Extended time of road assets being out of action causing users to detour and expend more time and fuel.

These actions and expenditures are considered and included in the forecast costs, and where developed, the Risk Management Plan.

7. FINANCIAL SUMMARY

This section contains the financial and valuation forecasts resulting from the information presented in the previous sections of this plan. Forecasts will be improved as the discussion on sustainable levels of service, risk and cost matures in line with the financial strategy.

7.1. Financial Sustainability and Projections

7.1.1. Sustainability of service delivery

There are two key indicators of sustainable service delivery that are considered in the AM Plan for this service area. The two indicators are the:

- Asset Renewal Funding Ratio (planned renewal budget for the next 10 years / forecast renewal outlays for the next 10 years identified as warranted in the AM Plan), and
- Lifecycle Funding Ratio (planned lifecycle budget for the next 10 years / forecast lifecycle outlays for the next 10 years identified as warranted in the AM Plan).

Asset Renewal Funding Ratio

Asset Renewal Funding Ratio¹² 95.07%

The Asset Renewal Funding Ratio illustrates that over the next 10 years we expect to have 95.07% of the funds required for the optimal renewal of assets.

The forecast renewal works along with the planned renewal budget, and the cumulative shortfall where one exists, is illustrated in Appendix D.

Lifecycle Funding Ratio – 10-year financial planning period

This AM Plan identifies the forecast operations, maintenance and renewal costs required to provide the levels of service to the community over a 10 year period. This provides input into 10 year long-term financial plan (LTFP) aimed at providing the required services in a sustainable manner.

This forecast work can be compared to the planned budget over the first 10 years of the planning period to identify any funding shortfall.

¹² AIFMM, 2015, Version 1.0, Financial Sustainability Indicator 3, Sec 2.6, p 9.

The forecast operations, maintenance and renewal costs over the 10 year planning period is \$12,014,018 average per year.

The 10-year LTFP is \$11,621,763 on average per year giving a 10 year funding shortfall of \$-392,255 per year. This indicates that 96.74% of the forecast costs needed to provide the services documented in this AM Plan are accommodated in the proposed budget. Note, these calculations exclude depreciation and the acquisition of new and upgrade of existing assets.

Providing sustainable and affordable services from infrastructure requires the management of service levels, risks, forecast outlays and financing to achieve a financial indicator of approximately 1.0 for the first years of the AM Plan and ideally over the 10 year life of the Long-Term Financial Plan.

7.1.2. Forecast Costs (outlays) for the long-term financial plan

Table 7.1.2 shows the forecast costs (outlays) required for consideration in the 10 year long-term financial plan.

Providing services in a financially sustainable manner requires a balance between the forecast outlays required to deliver the agreed service levels with the planned budget allocations in the long-term financial plan.

Forecast costs are shown in 2025 dollar values.

Table 7.1.2: Forecast Costs (Outlays) for the Long-Term Financial Plan

Year	Acquisition	Operation	Maintenance	Renewal	Disposal
2026	\$4,838,000	\$1,602,103	\$2,207,890	\$6,821,021	\$0
2027	\$4,212,500	\$1,617,805	\$2,229,530	\$7,446,241	\$0
2028	\$4,035,000	\$1,631,477	\$2,248,371	\$8,104,699	\$0
2029	\$3,310,000	\$1,644,573	\$2,266,419	\$8,387,187	\$0
2030	\$4,100,000	\$1,655,316	\$2,281,224	\$8,314,118	\$0
2031	\$4,100,000	\$1,668,623	\$2,299,563	\$6,431,315	\$0
2032	\$4,100,000	\$1,681,930	\$2,317,901	\$10,220,957	\$0
2033	\$4,100,000	\$1,695,237	\$2,336,240	\$7,332,585	\$0
2034	\$4,100,000	\$1,708,544	\$2,354,578	\$7,853,214	\$0
2035	\$4,100,000	\$1,721,851	\$2,372,917	\$8,734,362	\$0

7.2. Valuation Forecasts

The best available estimate of the value of assets included in this AM Plan are shown below. The assets are valued at fair value at cost to replace service capacity:

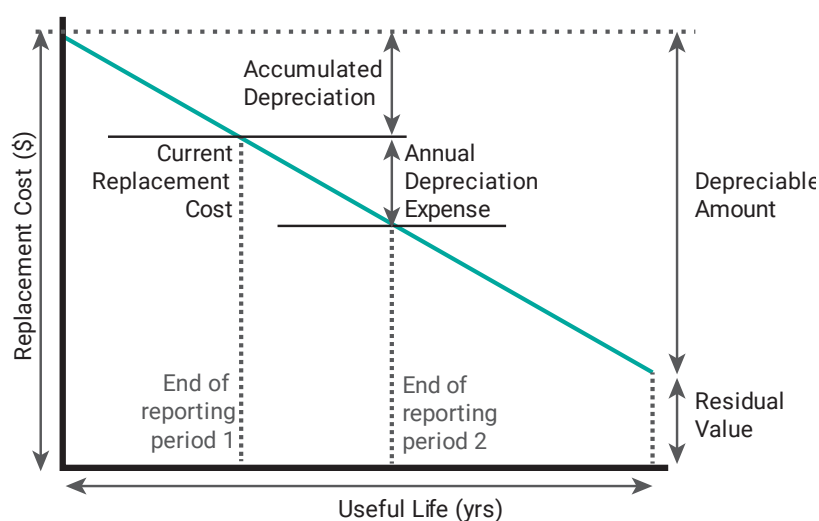


Figure 7.2.1: Valuation Terminology

Replacement Cost (Gross) \$746,581,724

Depreciable Amount	\$493,624,924
Current Replacement Cost ¹³	\$528,747,088
Annual Depreciation Expense	\$7,562,366

Asset values are forecast to increase as additional assets are added to the asset class.

Changing road asset type from rigid pavement (concrete roads) to flexible pavement (asphalt) type will generally add to the operations and maintenance needs in the longer term. Any additional assets will also add to future depreciation forecasts.

Under the AASB requirements, Council is required to revalue assets at a rate of minimum once every 4 years. This will help align the values of the existing assets with the addition of the acquired assets to a current day value

8. ASSUMPTIONS AND IMPROVEMENT PLANNING

8.1. Data and Information Sources

8.1.1. Accounting and financial data sources

This AM Plan utilises accounting and financial data sourced from Randwick City Councils IPPE Fair Value Assessment 2023-24 as at 30 June 2024.

8.1.2. Asset management data sources

This AM Plan also utilises asset management data sourced from Randwick City Councils asset register.

8.2. Key Assumptions

In compiling this AM Plan, it was necessary to make some assumptions. This section details the key assumptions made in the development of this AM plan and should provide readers with an understanding of the level of confidence in the data behind the forecasts.

Key assumptions made in this AM Plan are:

- Asset values and dimensions are correct. Changes to asset values and dimensions will have an effect on resources required to operate, maintain and renew the road pavement assets.
- 100% of council's road pavement assets are inspected and the road pavement asset conditions have been updated accordingly. Monitoring of change of condition may show a change in the asset's useful life which may have an impact on funding required to maintain level of service.
- The estimates used for current rates of renewal will remain constant at the current 2023 values for the next 10 years. Any increase to the renewal costs may reduce the amount of work budgeted with possible reduction in the service level of road pavement assets.

Assets requiring renewal are identified from either the asset register or an alternative method.

- The timing of capital renewals based on the asset register is applied by adding the useful life to the year of acquisition or year of last renewal,
- Alternatively, an estimate of renewal lifecycle costs is projected from external condition modelling systems and may be supplemented with, or based on, expert knowledge. When doing so, the forecast remaining useful life in the asset register should be adjusted where necessary.

The Asset Register was used to forecast the renewal lifecycle costs for this AM Plan.

¹³ Also reported as Written Down Value, Carrying or Net Book Value.

8.3. Forecast Reliability and Confidence

The forecast demands, costs, planned budgets, and valuation projections in this AM Plan are based on the best available data. For effective asset management and financial planning and reporting, it is critical that the information is reliable and up to date. Data confidence is classified on an A to E level scale in accordance with the guidance provided in the International Infrastructure Management Manual.¹⁴

Table 8.3.1: Data Confidence Grading System

Confidence Grade	Description
A. Very High	Data based on sound records, procedures, investigations and analysis, documented properly and agreed as the best method of assessment. Dataset is complete and estimated to be accurate $\pm 2\%$
B. High	Data based on sound records, procedures, investigations and analysis, documented properly but has minor shortcomings, for example some of the data is old, some documentation is missing and/or reliance is placed on unconfirmed reports or some extrapolation. Dataset is complete and estimated to be accurate $\pm 10\%$
C. Medium	Data based on sound records, procedures, investigations and analysis which is incomplete or unsupported, or extrapolated from a limited sample for which grade A or B data are available. Dataset is substantially complete but up to 50% is extrapolated data and accuracy estimated $\pm 25\%$
D. Low	Data is based on unconfirmed verbal reports and/or cursory inspections and analysis. Dataset may not be fully complete, and most data is estimated or extrapolated. Accuracy $\pm 40\%$
E. Very Low	None or very little data held.

The estimated confidence level for and reliability of data used in this AM Plan is shown in Table 8.3.2.

Table 8.3.2: Data Confidence Assessment for Data used in AM Plan

Data	Confidence Assessment	Comment
Demand drivers	Medium	The demand drivers are based on NSW Department of Planning requirements.
Growth projections	High	The demand drivers are based on customer requests, condition assessment and ongoing development requirements.
Acquisition forecast	High	This data has been a trend for Randwick City Council for the past 5 years
Operation forecast	High	This data has been a trend for Randwick City Council for the past 5 years
Maintenance forecast	Medium	This data has been a trend for Randwick City Council for the past 5 years
Renewal forecast - Asset values	Medium	The data is based on a recent revaluation of assets after a Council wide audit.
- Asset useful lives	High	The data is based on a recent revaluation of assets after a Council wide audit.
- Condition modelling	Medium	The data is based on a recent revaluation of assets after a Council wide audit.
Disposal forecast	High	This data has been a trend for Randwick City Council for the past 5 years

¹⁴ IPWEA, 2015, IIMM, Table 2.4.6, p 2|71.

The estimated confidence level for and reliability of data used in this AM Plan is considered to be Medium.

8.4. Improvement Plan

It is important that we recognise gaps in the planning process that require improvement to ensure effective asset management and informed decision making. The improvement plan generated from this AM Plan is shown in Table 8.4.

Table 8.4: Improvement Plan

Task	Task	Responsibility	Resources Required	Timeline
1	Improve asset register data confidence.	Asset Management Services	Asset Team	Ongoing
2	Establish a strategic asset management system for all infrastructure asset	Asset Management Services	Asset Team	2028
3	Review resilience of service delivery	Asset Management Services	Asset Team	2028
4	Include priority weighting methodology in maintenance and operation of assets. The four categories include: Condition, Functionality, Usage and Criticality	Infrastructure Services	Asset Team	2028
5	Improve proactive maintenance planning and reporting mechanism	Infrastructure Services	Asset Team	Ongoing
6	Improve asset management principles awareness within Council staff	Asset Management Services	Asset Team	Ongoing

8.5. Monitoring and Review Procedures

This AM Plan will be reviewed during the annual budget planning process and revised to show any material changes in service levels, risks, forecast costs and proposed budgets as a result of budget decisions.

The AM Plan will be reviewed and updated annually to ensure it represents the current service level, asset values, forecast operations, maintenance, renewals, acquisition and asset disposal costs and planned budgets. These forecast costs and proposed budget are incorporated into the Long-Term Financial Plan or will be incorporated into the Long-Term Financial Plan once completed.

The AM Plan has a maximum life of 4 years and is due for complete revision and updating within nine (9) months of each Council election.

8.6. Performance Measures

The effectiveness of this AM Plan can be measured in the following ways:

- The degree to which the required forecast costs identified in this AM Plan are incorporated into the long-term financial plan,
- The degree to which the 1 to 5-year detailed works programs, budgets, business plans and corporate structures consider the 'global' works program trends provided by the AM Plan,
- The degree to which the existing and projected service levels and service consequences, risks and residual risks are incorporated into the Strategic Planning documents and associated plans,
- The Asset Renewal Funding Ratio achieving the Organisational target (this target is often 90 – 110%).

9. REFERENCES

- IPWEA, 'International Infrastructure Management Manual', Institute of Public Works Engineering Australasia, Sydney, <https://www.ipwea.org/resourcesnew/bookshop/iimm>
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- IPWEA, 2018, Practice Note 12.1, 'Climate Change Impacts on the Useful Life of Assets', Institute of Public Works Engineering Australasia, Sydney, <https://www.ipwea.org/resourcesnew/bookshop/pn12-1>
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- IPWEA, 2014, Practice Note 8 – Levels of Service & Community Engagement, Institute of Public Works Engineering Australasia, Sydney, <https://www.ipwea.org/publications/ipweabookshop/practicenotes/pn8>
- ISO, 2024, ISO 55000:2024 Asset Management – Vocabulary, overview, and principles
- ISO, 2018, ISO 31000:2018 Risk management – Guidelines
- 'Strategic Plan 20XX – 20XX',
- 'Annual Plan and Budget'.

10. APPENDICES

Appendix A Acquisition Forecast

A.1 – Acquisition Forecast Assumptions and Source

- Three major Town Centre CBD Upgrade projects at Clovelly Road, Maroubra Junction and Matraville Town Centre
- Lane widening
- Traffic Facility constructions
- New cycleways

A.3 – Acquisition Forecast Summary

Table A3 - Acquisition Forecast Summary

Year	Constructed
2026	\$4,838,000
2027	\$4,212,500
2028	\$4,035,000
2029	\$3,310,000
2030	\$4,100,000
2031	\$4,100,000
2032	\$4,100,000
2033	\$4,100,000
2034	\$4,100,000
2035	\$4,100,000

Appendix B Operation Forecast

B.1 – Operation Forecast Assumptions and Source

- Amounts are shown in real values (i.e., current values, net of inflation).
- Operational forecast is assumed to be increasing yearly due to the increase of material and labour cost. Additional operation forecast increase is due to the increase in acquisition forecast.

B.2 – Operation Forecast Summary

Table B2 - Operation Forecast Summary

Year	Operation Forecast	Additional Operation Forecast	Total Operation Forecast
2026	\$1,602,103	\$0	\$1,602,103
2027	\$1,617,805	\$0	\$1,617,805
2028	\$1,631,477	\$0	\$1,631,477
2029	\$1,644,573	\$0	\$1,644,573
2030	\$1,655,316	\$0	\$1,655,316
2031	\$1,668,623	\$0	\$1,668,623
2032	\$1,681,930	\$0	\$1,681,930
2033	\$1,695,237	\$0	\$1,695,237
2034	\$1,708,544	\$0	\$1,708,544
2035	\$1,721,851	\$0	\$1,721,851

Appendix C Maintenance Forecast

C.1 – Maintenance Forecast Assumptions and Source

- Amounts are shown in real values (i.e., current values, net of inflation).
- Operational forecast is assumed to be increasing yearly due to the increase of material and labour cost. Additional maintenance forecast increase is due to the increase in acquisition forecast.

C.2 – Maintenance Forecast Summary

Table C2 - Maintenance Forecast Summary

Year	Maintenance Forecast	Additional Maintenance Forecast	Total Maintenance Forecast
2026	\$2,207,890	\$0	\$2,207,890
2027	\$2,229,530	\$0	\$2,229,530
2028	\$2,248,371	\$0	\$2,248,371
2029	\$2,266,419	\$0	\$2,266,419
2030	\$2,281,224	\$0	\$2,281,224
2031	\$2,299,563	\$0	\$2,299,563
2032	\$2,317,901	\$0	\$2,317,901
2033	\$2,336,240	\$0	\$2,336,240
2034	\$2,354,578	\$0	\$2,354,578
2035	\$2,372,917	\$0	\$2,372,917

Appendix D Renewal Forecast Summary

D.1 – Renewal Forecast Assumptions and Source

- Renewal forecast is based on the asset register, the general assumption of the asset register is that the condition of the assets is assessed appropriately and that the physical data of the asset are correct.

D.3 – Renewal Forecast Summary

Table D3 - Renewal Forecast Summary

Year	Renewal Forecast	Renewal Budget
2026	\$6,821,018	\$6,850,097
2027	\$7,446,242	\$7,459,678
2028	\$7,456,496	\$8,018,871
2029	\$8,039,179	\$7,543,871
2030	\$7,665,912	\$7,625,191
2031	\$6,102,697	\$7,625,191
2032	\$9,207,654	\$7,625,191
2033	\$7,309,190	\$7,625,191
2034	\$7,205,006	\$7,625,191
2035	\$8,325,467	\$7,625,191

D.4 – Renewal Plan

Asset ID	Street Name	Renewal Year
RD004476	Cooper Lane (Mons Avenue to The End), Maroubra	2026
RD004666	Dacre Street (Raglan Street to Franklin Street), Malabar	2026
RD003218	Burke Street (Franklin Street to Mitchell Street), Chifley	2026
RD000975	Arden Street (Carr Street to Dudley Street), Coogee	2026
RD013062	The Causeway (Torrington Road to First Avenue), Maroubra	2026
RD012510	Shaw Avenue (Tressidder Avenue to Goodrich Avenue), Kingsford	2026
RD009660	Maroubra Road (Marine Parade to Duncan Street), Maroubra	2026
RD007965	Howard Street (Perouse Road to Dudley Street), Randwick	2026
RD003580	Carlton Street (Anzac Parade to Doncaster Avenue), Kensington	2026
FR002243	Rainbow Street (Canberra Street to Hendy Avenue), Randwick	2026
RD011997	Rainbow Street (Canberra Street to Hendy Avenue), Randwick	2026
RD009450	Malabar Road (Arden Street to Napper Street), South Coogee	2026
RD001583	Beach Street (The End to Arcadia Street), Coogee	2026
FR002168	Perouse Road (Howard Street to Barker Street), Randwick	2026
FR001766	Malabar Road (Arden Street to Napper Street), South Coogee	2026
FR001808	Maroubra Road (Marine Parade to Duncan Street), Maroubra	2026
FR001487	Howard Street (Perouse Road to Dudley Street), Randwick	2026

FR000861	Dacre Street (Raglan Street to Franklin Street), Malabar	2026
FR000513	Brook Street (Coogee Bay Road to Dolphin Street), Coogee	2026
FR000580	Burke Street (Franklin Street to Mitchell Street), Chifley	2026
FR000125	Anzac Parade (Franklin Street to Nyan Street), Chifley	2026
FR000169	Arden Street (Carr Street to Dudley Street), Coogee	2026
RD011592	Perouse Road (Howard Street to Barker Street), Randwick	2026
RD000301	Alison Road (Pitt Street to Avoca Street), Randwick	2026
RD000754	Anzac Parade (Franklin Street to Nyan Street), Chifley	2026
FR000061	Alison Road (Pitt Street to Avoca Street), Randwick	2026
FR000165	Arden Street (Dolphin Street to Coogee Bay Road), Coogee	2026
RD004926	Mary Hamer Lane (Was Day Lane) - (Borrodale Road to Gardeners Road), Kingsford	2026
RD002817	Brook Street (Coogee Bay Road to Dolphin Street), Coogee	2026
RD014658	Sims Lane (New Orleans Crescent to Minneapolis Crescent), Maroubra	2026
RD014748	Ada Lane (Mears Avenue to The End), Randwick	2026
RD014908	Strachan Street (Houston Road to Day Lane), Kingsford	2026
RD015008	Canberra Lane (Rainbow Street to Helena Street), Randwick	2026
RD015138	Paul Lane (Kurrawa Avenue to The End), Coogee	2026
RD013730	White Avenue (Beauchamp Road to Hughes Avenue), Maroubra	2026
RD014153	Aeolia Lane (Aeolia Street to The End), Randwick	2026
RD014204	Wallace Lane (Wallace Street to Rainbow Street), Randwick	2026
RD014374	Wyee Place (Bilga Crescent to The End), Malabar	2026
RD012991	Tay Street (Alison Road to Anzac Parade), Kensington	2026
RD013680	Waverley Street (Stanley Street to Sydney Street), Randwick	2026
RD012220	Rodman Avenue (Meagher Avenue to Beauchamp Road), Maroubra	2026
RD012260	Roper Avenue (Elphinstone Road to The End), South Coogee	2026
RD012440	Seaview Street (Douglas Street to The End), Clovelly	2026
RD012581	Sims Grove (Minneapolis Crescent to New Orleans Crescent), Maroubra	2026
RD011674	Piccadilly Place (Bruce Bennetts Place to The End), Maroubra	2026
RD011774	Powell Lane (Powell Street to Mount Lane), Coogee	2026
RD011824	Prince Lane (Prince Street to Church Street), Randwick	2026
RD012087	Raleigh Street (Alison Road to The End), Coogee	2026
RD010710	Myrtle Street (Dowling Street to Virginia Street), Kensington	2026
RD010952	Norfolk Parade (Franklin Street to Parking Lot), Matraville	2026
RD011133	Oberon Lane (Oberon Street to Howard Street), Randwick	2026
RD011265	Oval Lane (Willis Street to Botany Street), Randwick	2026
RD011306	Oxley Street (Lawson Street to Franklin Street), Matraville	2026
RD010293	Moir Crescent (Marcel Avenue to Marcel Avenue), Clovelly	2026
RD010454	Mort Lane (White Street to Govett Lane), Randwick	2026
RD009116	Little Mort Street (Mort Street to Govett Street), Randwick	2026
RD009298	Mcivor Place (Rodman Avenue to The End), Maroubra	2026
RD008306	John Street (Alison Road to King Street), Randwick	2026
RD008326	John Lane (John Street to Car Park), Randwick	2026
RD008096	Inman Street (Torrington Road to Marine Parade), Maroubra	2026

RD007399	Hayward Street (Anzac Parade to Jacques Street), Kingsford	2026
RD007449	Helena Lane (Helena Street to Rainbow Lane), Randwick	2026
RD006794	Gardeners Lane (Bruce Street to Houston Road), Kingsford	2026
RD006886	Giles Street (Macquarie Street to The End), Chifley	2026
RD006978	Kenneth Lane (Kennedy Street to Botany Lane), Kingsford	2026
RD007128	Rubie Lane (Nix Avenue to Adams Avenue), Malabar	2026
RD007178	Hamel Road (Combles Parade to Menin Road), Matraville	2026
RD006115	First Avenue (Duncan Street to The Causeway), Maroubra	2026
RD006489	Franklin Street (Lawson Street to The End), Matraville	2026
RD005026	Dine Street (St Pauls Street to Barker Street), Randwick	2026
RD005036	Dine Lane (Avoca Lane to Barker Street), Randwick	2026
RD005056	Division Street (Arden Street to Brook Street), Coogee	2026
RD005289	Douglas Street (The End to Varna Street), Clovelly	2026
RD005620	Earl Lane (Challis Street to Challis Lane), Randwick	2026
RD005722	Edward Avenue (Day Lane to Cottenham Avenue), Kensington	2026
RD004426	Cooper Street (Storey Street to Metcalfe Street), Maroubra	2026
RD003560	Cantrill Avenue (Amour Avenue to The End), Maroubra	2026
RD004094	Clarke Lane (Oberon Street to Helena Street), Randwick	2026
RD004154	Clisby Way (Finucane Crescent to Truscott Avenue), Matraville	2026
RD003368	Byron Street (The End to Dudley Street), Coogee	2026
RD003398	Caerleon Crescent (Chapel Street to The End), Randwick	2026
RD001085	Anthony Lane (Havelock Avenue to Dudley Street), Coogee	2026
RD001343	Balfour Lane (Balfour Road to Kensington Road), Kensington	2026
RD001745	Bell Street (Storey Street to Boyce Road), Maroubra	2026
RD000041	Abbotford Lane (Brodie Avenue to Abbotford Lane East), Kensington	2026
RD000271	Alison Road (Leeton Avenue to Mount Street), Coogee	2026
RD015048	Ferguson Lane (Ferguson Street to The End), Maroubra	2026
RD013740	White Street (Wentworth Street to Dangar Street), Randwick	2026
RD013102	Thomas Street (Byron Street to Higgs Street), Coogee	2026
RD013122	Thorpe Street (Melrose Parade to The End), Clovelly	2026
RD013242	Tressidder Avenue (Eastern Avenue to Cottenham Avenue), Kingsford	2026
RD013314	Undine Street (Banks Street to Marine Parade), Maroubra	2026
RD013630	Waterton Avenue (Franklin Street to The End), Matraville	2026
RD012310	Royal Street (Boyce Road to Mason Street), Maroubra	2026
RD012641	Soudan Lane (Soudan Street to The End), Randwick	2026
RD011452	Park Street (Surfside Avenue to The End), Clovelly	2026
RD011684	Pine Street (Albion Street to Carrington Road), Clovelly	2026
RD010660	Mundarra Street (Battery Street to Clovelly Road), Clovelly	2026
RD010762	Nancye Street (Lee Street to St Pauls Street), Randwick	2026
RD010812	Nelson Street (Howard Street to Ivy Street), Randwick	2026
RD010972	Northumberland Lane (Park Lane to Warner Avenue), Clovelly	2026
RD011234	O'Sullivan Avenue (Paine Street to Nagle Avenue), Maroubra	2026
RD009972	Melrose Parade (Tower Street to The End), Clovelly	2026
RD009156	Llanfoyst Street (Albert Street to The End), Randwick	2026

RD008662	King Street (King Street to Alison Road), Randwick	2026
RD008762	Koorinda Avenue (Eastern Avenue to Cottenham Avenue), Kensington	2026
RD008875	Larose Avenue (Franklin Street to The End), Matraville	2026
RD007785	Hooper Street (Park Avenue to Hooper Lane), Randwick	2026
RD006724	Garden Street (Alma Road to Boyce Road), Maroubra	2026
RD006988	Goorawahl Avenue (Anzac Parade to Anzac Parade), La Perouse	2026
RD006349	Forsyth Street (Barker Street to Middle Street), Kingsford	2026
RD004906	Day Avenue (Mooramie Avenue to Doncaster Avenue), Kensington	2026
RD004986	Denning Street (Garie Place to Malabar Road), South Coogee	2026
RD003863	Challis Lane (Wentworth Street to Earl Street), Randwick	2026
RD003983	Chicago Avenue (Minneapolis Crescent to Portland Crescent), Maroubra	2026
RD002777	Brook Street (Rainbow Street to Oberon Street), Coogee	2026
RD003438	Calga Avenue (Bilga Crescent to Bilga Crescent), Malabar	2026
RD001837	Bennett Place (White Avenue to The End), Maroubra	2026
RD002637	Brandon Street (Arden Street to Width Change), Clovelly	2026
RD000161	Ainslie Street (Paton Street to Avoca Street), Kingsford	2026
RD000526	Anderson Street (Hayward Street to Apsley Avenue), Kingsford	2026
RD014888	Stanley Street (Monmouth Street to Wentworth Street), Randwick	2026
RD015128	Weller Lane (Hannan Street to The End), Maroubra	2026
RD013843	Willis Street (Oval Lane to Barker Street), Kingsford	2026
RD013853	Willis Street (Barker Street to Middle Street), Kingsford	2026
RD014123	Zions Avenue (Lucas Avenue to Prince Edward Street), Malabar	2026
RD014184	Beatty Lane (Beatty Street to The End), Maroubra	2026
RD014394	Dacre Lane (Raglan Street to Ireton Street), Malabar	2026
RD014404	Dacre Lane (Ireton Street to The End), Malabar	2026
RD013610	Warner Avenue (Campbell Street to Ocean Street), Clovelly	2026
RD012661	Stark Street (Melody Street to Carrington Road), Coogee	2026
RD010640	Mulgray Avenue (Galvin Street to Boyce Road), Maroubra	2026
RD010444	Mort Street (Govett Lane to Govett Street), Randwick	2026
RD008236	Jane Street (Middle Street to Barker Street), Randwick	2026
RD007409	Hayward Street (Jacques Street to Anderson Street), Randwick	2026
RD007815	Hooper Lane (Darley Road to Pine Street), Randwick	2026
RD007299	Harbourne Road (Meeks Street to Rainbow Street), Kingsford	2026
RD006004	Ferguson Street (Wade Street to Murray Street), Maroubra	2026
RD003509	Canara Avenue (Oorana Avenue to Yarra Road), Phillip Bay	2026
RD004114	Clifford Street (The End to Mount Street), Coogee	2026
RD001303	Baker Street (Milroy Avenue to Todman Avenue), Kensington	2026
RD013863	Willis Street (Middle Street to Meeks Street), Kingsford	2026
RD010932	Sturt Lane (Sturt Street to Botany Road), Kingsford	2026
RD009278	Mcdougall Street (Lenthall Street to The End), Kensington	2026
RD004164	Close Street (Cuzco Street to Pearce Street), South Coogee	2026
RD016947	Iluka Place (Elphinstone Road to The End), South Coogee	2026
RD016965	Bruce Bennetts Place (Boyce Road to Piccadilly Place), Maroubra	2026
RD017107	Bella Street (Pine Street to The End), Randwick	2026

RD019196	Hamilton Street (Alison Road to Division Street), Coogee	2027
RD012480	Severn Street (Marine Parade to The End), Maroubra	2027
RD010564	Moverly Road (Anzac Parade to Loch Maree Street), Maroubra	2027
RD010103	Middle Lane (Meeks Street to Middle Street), Kingsford	2027
RD003348	Byrne Avenue (Moverly Road to Johnston Parade), South Coogee	2027
RD019758	Cromwell Place (Anzac Parade to Franklin Street), Malabar	2027
RD012901	St Luke Street (Coogee Bay Road to Dolphin Street), Randwick	2027
RD012410	Searle Avenue (Frenchmans Road to Clovelly Road), Randwick	2027
RD011432	Park Avenue (Gilderthorpe Avenue to Pine Street), Randwick	2027
RD011915	Rae Street (Avoca Street to Dutruc Street), Randwick	2027
RD010782	Napier Street (Prince Edward Street to Victoria Street), Malabar	2027
RD010832	Neptune Street (Wolseley Road to Beach Street), Coogee	2027
RD010942	Norbar Lane (Kennedy Street to Norton Lane), Kingsford	2027
RD010434	Morris Place (New Orleans Crescent to Portland Crescent), Maroubra	2027
RD009146	Nathan Street (Carrington Road to Brighton Road), Coogee	2027
RD008276	Jennings Street (Beauchamp Road to Perry Street), Matraville	2027
RD008895	Lasseter Avenue (Macquarie Street to Little Bay Road), Chifley	2027
RD008156	Isis Lane (Irvine Street to Botany Street), Kingsford	2027
RD007610	Hill Street(Bream Street to Arcadia Street), Coogee	2027
RD007309	Harbourne Lane (Forsyth Street to Harbourne Road), Kingsford	2027
RD006095	Finucane Crescent (Kain Avenue to Lawson Street), Matraville	2027
RD005732	Elaroo Avenue (Anzac Parade to Adina Avenue), Phillip Bay	2027
RD004656	Cuzco Street (Denning Street to The End), South Coogee	2027
RD004074	Clarence Street (Franklin Street to Namoi Road), Matraville	2027
RD003258	Burton Street (Prince Street to Church Street), Randwick	2027
RD001816	Carlton Lane (Abbotford Street to Abbotford Street), Kensington	2027
RD000804	Apsley Lane (Apsley Avenue to Jacques Street), Kingsford	2027
RD014868	Gilderthorpe Avenue (Clovelly Road to Frenchmans Road), Randwick	2027
RD015108	Winchester Lane (Pacific Street to Winchester Road), Clovelly	2027
RD013760	Wild Street (Fitzgerald Avenue to Donovan Avenue), Maroubra	2027
RD013092	The Corso (Duncan Street to Marine Parade), Maroubra	2027
RD013354	Vicar Street (Coogee Bay Road to The End), Coogee	2027
RD013374	Victoria Street (Howe Street to Napier Street), Malabar	2027
RD012270	Roscrea Avenue (Frenchmans Road to Gilderthorpe Avenue), Randwick	2027
RD011163	O'Connell Avenue (Robey Street to Sharp Street), Matraville	2027
RD010203	Milroy Avenue (Lenthall Street to The End), Kensington	2027
RD010223	Minneapolis Crescent (Lexington Place to Chester Avenue), Maroubra	2027
RD009228	Lucas Avenue (Austral Street to Bilga Crescent), Malabar	2027
RD009710	Maroubra Road (Garden Street to Anzac Parade), Maroubra	2027
RD007600	Hill Street (Dolphin Street to Bream Street), Coogee	2027
RD007845	Houston Road (Day Avenue to Barker Street), Kensington	2027
RD005844	Ethne Avenue (Market Street to The End), Randwick	2027
RD005369	Dudley Street (Mount Street to Byron Street), Coogee	2027
RD005560	Dwyer Avenue (Budd Avenue to Reservoir Street), Little Bay	2027

RD004345	Coogee Bay Road (Melody Street to Mount Street), Coogee	2027
RD003933	Chelmsford Avenue (Davidson Crescent to Chelmsford Avenue), Maroubra	2027
RD001917	Blaxland Street (Lawson Street to Franklin Street), Matraville	2027
RD001433	Barker Street (Anzac Parade to Willis Street), Kingsford	2027
RD000854	Arcadia Street (Arden Street to Brook Street), Coogee	2027
RD014758	Rigney Lane (Rigney Avenue to Avoca Street), Kingsford	2027
RD012681	Stephen Lane (Wentworth Street to The End), Randwick	2027
RD011502	Partanna Avenue (Bunnerong Road to The End), Matraville	2027
RD008672	King Street (The End to Wentworth Street), Randwick	2027
RD006622	Gale Road (Hannan Street to Anzac Parade), Maroubra	2027
RD005449	Duncan Street (Malabar Road to Maxwell Avenue), Maroubra	2027
RD002487	Bowral Street (Anzac Parade to Doncaster Avenue), Kensington	2027
RD002547	Boyce Road (The End to Hannan Street), Maroubra	2027
RD013923	Wilson Street (Marine Parade to Torrington Road), Maroubra	2027
RD013963	Winkurra Street (Dowling Street to Milroy Avenue), Kensington	2027
RD011704	Pitt Street (Alison Road to The End), Randwick	2027
RD011255	Oswald Street (Courland Street to Clyde Street), Randwick	2027
RD009136	Little Bay Road (Namatjira Place to Bunnerong Road), Chifley	2027
RD009510	Malabar Road (Mons Avenue to Fitzgerald Avenue), Maroubra	2027
RD008742	Knox Street (Clovelly Road to Greville Street), Clovelly	2027
RD008855	Lancaster Crescent (Botany Street to The End), Kingsford	2027
RD006937	Glenwood Avenue (Dolphin Street to The End), Coogee	2027
RD005016	Dick Street (Carrington Road to Glebe Street), Randwick	2027
RD005329	Samuel Terry Avenue (Todman Avenue to The End), Kensington	2027
RD005660	Eastern Avenue (Tressidder Avenue to Gardeners Road), Kingsford	2027
RD003923	Chatham Street (Carrington Road to St Luke Street), Randwick	2027
RD004254	Clovelly Road (Flood Street to Donnellan Circuit), Clovelly	2027
RD003388	Byron Street (Carr Street to Coogee Bay Road), Coogee	2027
RD002397	Botany Street (High Street to Arthur Street), Randwick	2027
RD000814	Apsley Lane (Jacques Street to Anzac Parade), Kingsford	2027
RD014013	Wood Street (Rae Street to Eulalie Avenue), Randwick	2027
RD013182	Todman Avenue (Kensington Road to Anzac Parade), Kensington	2027
RD013334	Vale Street (Arden Street to The End), Clovelly	2027
RD012520	Shepherd Street (Everett Street to Anzac Parade), Maroubra	2027
RD012621	Solander Street (Perry Street to The End), Matraville	2027
RD012671	Stephen Street (Wentworth Street to Chepstow Street), Randwick	2027
RD011714	Popplewell Place (Moverly Road to The End), South Coogee	2027
RD010393	Mooramie Avenue (Koorinda Avenue to Roma Avenue), Kensington	2027
RD009208	Lorne Avenue (Roma Avenue to The End), Kensington	2027
RD009420	Maitland Avenue (Gardeners Road to Tressidder Avenue), Kingsford	2027
RD009690	Maroubra Road (Flower Street to Cooper Street), Maroubra	2027
RD008702	Kingsford Street (Hinkler Street to Cobham Street), Maroubra	2027
RD007875	Houston Road (Borrodale Road to Gardeners Road), Kingsford	2027

RD007088	Greville Street (Fern Street to Knox Street), Clovelly	2027
RD003710	Carrington Road (Dolphin Street to Coogee Street), Coogee	2027
RD003813	Castle Street (Stephen Street to Challis Lane), Randwick	2027
RD000261	Alison Road (Brook Street to Leeton Avenue), Coogee	2027
RD000844	Arcadia Street (Beach Street to Arden Street), Coogee	2027
RD000021	Abbotford Lane West (Abbotford Street to Alison Road), Kensington	2027
RD013873	Willis Street (Meeks Street to Rainbow Street), Kingsford	2027
RD011093	Oberon Street (Brook Street to Mount Street), Coogee	2027
RD002797	Brook Street (Dudley Street to Carr Street), Coogee	2027
RD002337	Botany Street (Bunnerong Road to Anzac Parade), Kingsford	2027
RD001694	Beauchamp Road (Bunnerong Road to Denison Street), Matraville	2028
RD000774	Anzac Parade (Jennifer Street to Bunnerong Road), Little Bay	2028
RD014607	Anthony Lane (Sharp Street to Dive Street), Matraville	2028
RD006734	Garden Street (Boyce Road to Green Street), Maroubra	2028
RD001654	Beauchamp Road (Malabar Road to Davidson Crescent), Maroubra	2028
RD011542	Pauling Avenue (Ritchard Avenue to Alison Road), Coogee	2028
RD011814	Prince Street (Cowper Street to Alison Road), Randwick	2028
RD005640	Eastern Avenue (Koorinda Avenue to Day Avenue), Kensington	2028
RD003750	Carrington Road (Clovelly Road to Frenchmans Road), Clovelly	2028
RD012911	St Marks Road (Oswald Street to Alison Road), Randwick	2028
RD013580	Waratah Avenue (Botany Street to Belmore Road), Randwick	2028
RD012340	Runic Lane (Hannan Street to Anzac Parade), Maroubra	2028
RD009348	Mcnair Avenue (Byrd Avenue to Paton Street), Kingsford	2028
RD007439	Helena Street (Avoca Street to Canberra Street), Randwick	2028
RD007218	Hannan Street (Storey Street to Gale Road), Maroubra	2028
RD004405	Cook Street (Frances Street to Cowper Street), Randwick	2028
RD003059	Bundock Lane (Ellen Street to Canberra Street), Randwick	2028
RD003248	Burnie Street (Clovelly Road to Arden Street), Clovelly	2028
RD001867	Bilga Crescent (Austral Street to Calga Avenue), Malabar	2028
RD001145	Australia Avenue (Bunnerong Road to Mccauley Street), Matraville	2028
RD001473	Barker Street (Jane Street to Avoca Street), Randwick	2028
RD001593	Beach Street (Arcadia Street to Clovelly Road), Coogee	2028
RD000954	Arden Street (Dolphin Street to Coogee Bay Road), Coogee	2028
RD015427	Maroubra Road (Royal Street to Bunnerong Road), Maroubra	2028
RD007570	High Street (Ajc Gate to Wansey Road), Randwick	2028
RD005480	Jacaranda Place (Elphinstone Road to The End South), South Coogee	2028
RD004776	Darley Road (Alison Road to Evans Street), Randwick	2028
RD014334	Metcalfe Street (Garden Street to Cooper Street), Maroubra	2028
RD009600	Marine Parade (Maroubra Road to Fitzgerald Avenue), Maroubra	2028
RD007550	Higgs Street (Oberon Street to Dudley Street), Coogee	2028
RD007369	Hastings Avenue (Macquarie Street to Little Bay Road), Chifley	2028
RD004516	Courland Street (Dolphin Street to Coogee Street), Randwick	2028
RD002027	Boronia Street (Duke Street to Anzac Parade), Kensington	2028
RD000191	Albion Street (Carrington Road to Pine Street), Clovelly	2028

RD000001	Abbey Street (Alison Road to Frances Street), Randwick	2028
RD015018	East Lane (Canberra Lane to The End), Randwick	2028
RD013650	Wassell Street (Burke Street to The End), Matraville	2028
RD009308	Mckenzie Avenue (Little Bay Road to Anzac Parade), Chifley	2028
RD009700	Maroubra Road (Cooper Street to Garden Street), Maroubra	2028
RD007068	Gregory Street (Nymboida Street to Malabar Road), South Coogee	2028
RD005349	Dudley Street (Arden Street to Brook Street), Coogee	2028
RD004556	Cowper Street (Alison Road to Prince Street), Randwick	2028
RD000784	Anzac Parade (Bunnerong Road to The End), Little Bay	2028
RD010802	Napper Street (Denning Street to Malabar Road), South Coogee	2028
RD011103	Oberon Street (Mount Street to Prowse Road), Randwick	2028
RD009812	Mears Avenue (Avoca Street to Ada Street), Randwick	2028
RD010143	Military Road (Bumborah Point Road to Bunnerong Road), Matraville	2029
RD006399	Frances Street (Prince Street to Church Street), Randwick	2029
RD000764	Anzac Parade (Nyan Street to Jennifer Street), Little Bay	2029
RD013973	Wisdom Street (Alexandria Parade to The End), South Coogee	2029
RD011389	Pardey Street (Irvine Street to Smith Street), Kingsford	2029
RD012077	Goora Street (Anzac Parade to The End), Little Bay	2029
RD011296	Oxley Street (Hillary Parade to Lawson Street), Matraville	2029
RD009952	Melody Street (Bream Street to Alison Road), Coogee	2029
RD009540	Manson Place (Simeon Street to Knox Street), Clovelly	2029
RD009560	Marcel Avenue (Carrington Road to Mount Street), Clovelly	2029
RD006592	Gainford Avenue (O'Connell Avenue to Beauchamp Road), Matraville	2029
RD006947	Goodrich Avenue (Tunstall Avenue to Eastern Avenue), Kingsford	2029
RD007108	Grose Street (Anzac Parade to Reservoir Street), Little Bay	2029
RD004325	Coogee Bay Road (Belmore Road to Carrington Road), Randwick	2029
RD004385	Coogee Street (Courland Street to Judge Street), Randwick	2029
RD004486	Cottenham Avenue (Gardeners Road to Day Avenue), Kingsford	2029
RD003550	Kelso Lane (Cowper Street to The End), Randwick	2029
RD004214	Clovelly Road (Carrington Road to Fern Street), Clovelly	2029
RD002687	Bream Street (Mount Street to Melody Street), Coogee	2029
RD001877	Bilga Crescent (Calga Avenue to Anzac Parade), Malabar	2029
RD001907	Blackwood Avenue (Boundary Street to Surfside Avenue), Clovelly	2029
RD002507	Boyce Road (Flower Street to Cooper Street), Maroubra	2029
RD001135	Austral Street (Bilga Crescent to The End), Malabar	2029
RD000366	Alison Lane (The End to Arcadia Lane), Coogee	2029
RD014487	Vanny Place (Amour Avenue to The End), Maroubra	2029
RD014828	Kelly Lane (Perry Street to The End), Matraville	2029
RD013001	Tay Lane (Abbotford Lane to Anzac Parade), Kensington	2029
RD012118	Raymond Avenue (Mccauley Street to Mccauley Street), Matraville	2029
RD011173	Oorana Avenue (Adina Avenue to Canara Avenue), Phillip Bay	2029
RD011183	Oorana Avenue (Canara Avenue to Elaroo Avenue), Phillip Bay	2029
RD010373	Mooramie Avenue (Barker Street to Day Avenue), Kensington	2029
RD009238	Lurline Street (Torrington Road to Waterside Avenue), Maroubra	2029

RD009650	Market Street (Darley Road to Clovelly Road), Randwick	2029
RD008782	Koorinda Avenue (Mooramie Avenue to Doncaster Avenue), Kensington	2029
RD002767	Broadbent Street (Width Change to Irvine Street), Kingsford	2029
RD003418	Caley Street (Wassell Street to Burke Street), Chifley	2029
RD001015	Arthur Street (Wansey Road to Botany Street), Randwick	2029
RD000456	Brompton Road (Todman Avenue to Brompton Road), Kensington	2029
RD015198	Marida Street (Hendy Avenue to Munda Street), Randwick	2029
RD014083	Yarra Road (Bunnerong Road to Elaroo Avenue), Phillip Bay	2029
RD013424	Villiers Street (Addison Street to Todman Avenue), Kensington	2029
RD011632	Perry Street (Mccauley Street to Beauchamp Road), Matraville	2029
RD004284	Cobham Street (Wild Street to Kingsford Street), Maroubra	2029
RD003650	Carr Street (Brook Street to Mount Street), Coogee	2029
RD001847	Berwick Street (Mount Street to The End), Coogee	2029
RD007279	Harbourne Road (Barker Street to Middle Street), Kingsford	2029
RD005389	Dudley Street (Carrington Road to Coogee Bay Road), Randwick	2029
RD011602	Perouse Road (Barker Street to St Pauls Street), Randwick	2029
RD013192	Todman Avenue (Anzac Parade to Doncaster Avenue), Kensington	2029
RD012168	Ritchard Avenue (Mount Street to Pauling Avenue), Coogee	2029
RD012420	Seaside Parade (Liguria Street to The End), South Coogee	2029
RD008186	Jacques Street (Bunnerong Road to Hayward Street), Kingsford	2029
RD007479	Hendy Avenue (Bundock Street to Rainbow Street), South Coogee	2029
RD007721	Hodgson Street (Cowper Street to The End), Randwick	2029
RD006379	Fowler Crescent (Macleay Street to Storey Street), South Coogee	2029
RD005146	Doncaster Avenue (Barker Street to Day Avenue), Kensington	2029
RD004806	Darley Road (Avoca Street to Market Street), Randwick	2029
RD004084	Clarke Lane (Howard Street to Oberon Street), Randwick	2029
RD004124	Carrington Lane (Alison Road to The End), Coogee	2029
RD003208	Burbong Street (Anzac Parade to Avoca Street), Kingsford	2029
RD001897	Bishops Avenue (Clovelly Road to Douglas Street), Clovelly	2029
RD001957	Bloomfield Street (Denning Street to The End), South Coogee	2029
RD000281	Alison Road (Mount Street to Carrington Road), Coogee	2029
RD013720	Wentworth Lane (Wentworth Street to Dangar Lane), Randwick	2029
RD013590	Warburton Street (Brisbane Street to Dampier Street), Chifley	2029
RD013640	Wassell Street (Franklin Street to Burke Street), Matraville	2029
RD012560	Silver Street (Belmore Road to Botany Street), Randwick	2029
RD011642	Peters Place (Rodman Avenue to The End), Maroubra	2029
RD010922	Nolan Avenue (Fern Street to Seaview Street), Randwick	2029
RD010193	Milroy Avenue (Baker Street to Lenthall Street), Kensington	2029
RD010484	Mount Street (Dudley Street to Carr Street), Coogee	2029
RD007905	Houston Lane (Strachan Street to Borrodale Road), Kingsford	2029
RD007379	Havelock Avenue (Arden Street to Carr Street), Coogee	2029
RD004566	Cowper Street (Prince Street to Church Street), Randwick	2029
RD004606	Creer Street (Canberra Street to The End), Randwick	2029
RD003378	Byron Street (Dudley Street to Carr Street), Coogee	2029

RD002357	Botany Street (Sturt Street to Rainbow Street), Kingsford	2029
RD001483	Barker Street (Avoca Street to Perouse Road), Randwick	2029
RD000426	Alma Road (Flower Street to Width Change), Maroubra	2029
RD000965	Arden Street (Coogee Bay Road to Carr Street), Coogee	2029
RD011864	Prince Edward Street (Napier Street to Bilga Crescent), Malabar	2030
RD011874	Quail Street (Arden Street to Beach Street), Coogee	2030
RD006479	Franklin Street (Barwon Crescent to The End), Matraville	2030
RD005096	Dolphin Street (Brook Street to Mount Street), Coogee	2030
RD003499	Canara Avenue (Adina Avenue to Oorana Avenue), Phillip Bay	2030
RD013212	Torrington Road (Malabar Road to Marine Parade), Maroubra	2030
RD004796	Darley Road (Dangar Street to Avoca Street), Randwick	2030
RD017045	Yamba Place (Elphinstone Road to The End), South Coogee	2030
RD006085	Figtree Avenue (Pine Street to The End), Randwick	2030
RD002877	Broome Street (Brown Road to The End), Maroubra	2030
RD014033	Woomera Road (Little Bay Road to Bunnerong Road), Little Bay	2030
RD013022	Tedwin Avenue (Inglethorpe Avenue to Tunstall Avenue), Kensington	2030
RD013252	Truscott Avenue (Romani Parade to Anzac Parade), Matraville	2030
RD013293	Tyrwhitt Street (Broome Street to Malabar Road), Maroubra	2030
RD012731	Storey Street (Hannan Street to Anzac Parade), Maroubra	2030
RD011854	Prince Edward Street (Raglan Street to Napier Street), Malabar	2030
RD010992	Norton Street (Kennedy Street to Willis Street), Kingsford	2030
RD010033	Middle Street (Anzac Parade to Harbourne Road), Kingsford	2030
RD009006	Leonard Avenue (Edward Avenue to Borrodale Road), Kingsford	2030
RD009106	Little Street (Duncan Street to Nicol Avenue), Maroubra	2030
RD008436	Kara Lane (Howard Street to Avoca Lane), Randwick	2030
RD008772	Koorinda Avenue (Cottenham Avenue to Mooramie Avenue), Kensington	2030
RD008823	Kurrawa Avenue (Carr Street to Paul Lane), Coogee	2030
RD007038	Gray Street (St Luke Street to Heath Street), Randwick	2030
RD006219	Flinders Street (Menin Road to Lawson Street), Matraville	2030
RD005196	Doncaster Avenue (Borrodale Road to Edward Avenue), Kingsford	2030
RD005259	Doran Street (Doncaster Avenue to Day Lane), Kingsford	2030
RD005279	Douglas Street (Fern Street to The End), Clovelly	2030
RD004355	Coogee Bay Road (Mount Street to Brook Street), Coogee	2030
RD004676	Daintrey Crescent (St Pauls Street to St Pauls Street), Randwick	2030
RD005006	Dewey Court (Portland Crescent to The End), Maroubra	2030
RD003963	Chester Avenue (Portland Crescent to Minneapolis Crescent), Maroubra	2030
RD004174	Clovelly Road (Darley Road to Earl Street), Randwick	2030
RD003428	Caley Street (Burke Street to Eyre Street), Chifley	2030
RD001857	Beulah Street (Botany Street to Irvine Street), Kingsford	2030
RD001272	Baden Street (Beach Street to Park Area), Coogee	2030
RD000446	Abbe Receveur Place (Grose Street to The End), Little Bay	2030
RD012881	Surfside Avenue (Park Street to Keith Street), Clovelly	2030
RD013404	Victoria Street (Ireton Street to Franklin Street), Malabar	2030
RD012631	Soudan Street (Avoca Street to Perouse Road), Randwick	2030

RD012741	Storey Street (Anzac Parade to Loch Maree Street), Maroubra	2030
RD012841	Sturt Street (Botany Street to Paton Street), Kingsford	2030
RD011442	Park Street (Boundary Street to Surfside Avenue), Clovelly	2030
RD010383	Mooramie Avenue (Day Avenue to Koorinda Avenue), Kensington	2030
RD009550	Manwaring Avenue (Broome Street to The End), Maroubra	2030
RD008508	Kemp Avenue (Bunnerong Road to The End), Matraville	2030
RD007520	Henry Street (Meymott Street to Oberon Street), Randwick	2030
RD007955	Howard Street (Titania Street to Prowse Road), Randwick	2030
RD006662	Gale Road (Flower Street to Bell Street), Maroubra	2030
RD006754	Garden Street (Maroubra Road to Haig Street), Maroubra	2030
RD007078	Greville Street (Bishops Avenue to Fern Street), Clovelly	2030
RD006055	Argyle Crescent (Henning Avenue to The End), South Coogee	2030
RD005126	Dolphin Street (Carrington Road to Judge Street), Randwick	2030
RD005359	Dudley Street (Brook Street to Mount Street), Coogee	2030
RD005550	Dwyer Avenue (Jennifer Street to Budd Avenue), Little Bay	2030
RD005702	Edgecliffe Avenue (Malabar Road to Seaside Parade), South Coogee	2030
RD004856	Davidson Crescent (Beauchamp Road to Malabar Road), Maroubra	2030
RD002697	Bream Street (Melody Street to Carrington Road), Coogee	2030
RD001887	Binda Crescent (Nurla Avenue to Nurla Avenue), Little Bay	2030
RD001937	Bligh Place (Clovelly Road to The End), Randwick	2030
RD001363	Bapaume Parade (Eastern Road to The End), Matraville	2030
RD001725	Bedford Place (Denning Street to Malabar Road), South Coogee	2030
RD000051	Abbot Street (Mount Street to Melody Street), Coogee	2030
RD014324	Mason Street (Hannan Street to Anzac Parade), Maroubra	2030
RD013273	Tucabia Street (Macleay Street to Johnston Parade), South Coogee	2030
RD011844	Prince Edward Street (Ireton Street to Raglan Street), Malabar	2030
RD005670	Eastern Road (Combles Parade to Beauchamp Road), Matraville	2030
RD002757	Broadbent Street (Anzac Parade to Width Change), Kingsford	2030
RD000396	Alma Road (Anzac Parade to Garden Street), Maroubra	2030
RD009782	Mawson Parade (Forrest Street to Nyan Street), Chifley	2030
RD009992	Menin Road (Pozieres Avenue to Flinders Street), Matraville	2030
RD006035	Fern Street (Greville Street to Douglas Street), Clovelly	2030
RD014627	Pillars Place (Peterson Street to The End), Matraville	2030
RD014728	Dowling Lane (Ingram Street to The End), Kensington	2030
RD013913	Wills Avenue (Macquarie Street to Forrest Street), Chifley	2030
RD014113	Young Street (Barker Street to The End), Randwick	2030
RD014143	Hay Lane (Hay Street to Barker Street), Randwick	2030
RD012931	St Marks Lane (Clovelly Road to The End), Coogee	2030
RD012178	Roberts Avenue (Frenchmans Road to Ravenswood Lane), Randwick	2030
RD012470	See Lane (Houston Road to Day Lane), Kingsford	2030
RD012831	Sturt Street (Anzac Parade to Botany Street), Kingsford	2030
RD011724	Portland Crescent (Chester Avenue to Chicago Avenue), Maroubra	2030
RD012128	Reserve Lane (Oberon Lane to Clarke Lane), Randwick	2030

RD010872	New Orleans Crescent (Fitzgerald Avenue to Yorktown Parade), Maroubra	2030
RD010902	Nicol Lane (Nicol Avenue to Maroubra Road), Maroubra	2030
RD011053	Oak Street (Melrose Parade to The End), Clovelly	2030
RD009772	Maud Street (Barker Street to Hay Street), Randwick	2030
RD010083	Middle Street (Botany Street to Jane Street), Randwick	2030
RD010233	Minneapolis Crescent (Chester Avenue to Anzac Parade), Maroubra	2030
RD009026	Leonora Avenue (Irvine Street to The End), Kingsford	2030
RD009066	Lindsay Street (Adina Avenue to Oorana Avenue), Phillip Bay	2030
RD009096	Lion Lane (Oberon Street to The End), Randwick	2030
RD009570	Marian Street (Rainbow Street to The End), South Coogee	2030
RD008216	Jacques Street (Botany Street to Anzac Parade), Kingsford	2030
RD008396	Judge Lane (Judge Street to Heath Street), Randwick	2030
RD008406	Judge Lane (Heath Street to The End), Randwick	2030
RD008528	Kennedy Street (Norton Street to Barker Street), Kingsford	2030
RD008935	Lee Street (Howard Street to St Pauls Street), Randwick	2030
RD007489	Hendy Avenue (Rainbow Street to Oberon Street), Coogee	2030
RD006145	Fischer Lane (Fischer Street to Broadbent Street), Kingsford	2030
RD005206	Don Juan Avenue (Coogee Bay Road to The End), Randwick	2030
RD003730	Carrington Road (Alison Road to Marcel Avenue), Coogee	2030
RD003853	Challis Street (Wentworth Street to Earl Street), Randwick	2030
RD002847	Brook Street (Alison Road to Division Street), Coogee	2030
RD003328	Byrd Avenue (McNair Avenue to The End South), Kingsford	2030
RD002417	Bougainville Court (Portland Crescent to The End), Maroubra	2030
RD002607	Kennedy Lane (Norton Street to Oval Lane), Kingsford	2030
RD001513	Barry Street (Clovelly Road to Greville Street), Clovelly	2030
RD001735	Bega Avenue (Woomera Road to Mirrabooka Crescent), Little Bay	2030
RD000546	Anthony Street (Jersey Road to Anthony Lane), Matraville	2030
FR011651	Wild Lane (Wild Street to The End), Maroubra	2030
RD000031	Abbotford Lane East (Abbotford Street to Alison Road), Kensington	2030
RD014778	Bruce Avenue (Eastbourne Avenue to Surfside Avenue), Clovelly	2030
RD014958	Clift Lane (Fern Street to Barry Street), Clovelly	2030
RD014988	Fern Lane (Susan Lane to Clift Lane), Clovelly	2030
RD013690	Wells Street (Macquarie Street to The End), Chifley	2030
RD013750	White Street (Dangar Street to Govett Street), Randwick	2030
RD013172	Todman Avenue (Balfour Road to Kensington Road), Kensington	2030
RD013222	Tower Street (Battery Street to The End), Clovelly	2030
RD012209	Castle Lane (Carter Street to Stephen Street), Randwick	2030
RD012400	Scott Lane (Scott Street to Tyrwhitt Street), Maroubra	2030
RD012530	Sherwood Street (Balfour Road to The End), Kensington	2030
RD012591	Smith Street (Fischer Street to Snape Street), Kingsford	2030
RD012711	Stewart Street (Lee Street to The End), Randwick	2030
RD012871	Surfside Avenue (Bruce Avenue to Park Street), Clovelly	2030
RD011955	Raglan Street (Victoria Street to Dacre Street), Malabar	2030

RD010514	Mount Street (Dolphin Street to The End), Coogee	2030
RD010690	Murray Street (Robey Street to Ferguson Street), Maroubra	2030
RD010700	Murray Street (Ferguson Street to Anzac Parade), Maroubra	2030
RD009912	Melody Street (Carr Street to The End), Coogee	2030
RD010303	Molloy Avenue (Fowler Crescent to Tucabia Street), South Coogee	2030
RD009338	Mcnairst Avenue (Botany Street to Byrd Avenue), Kingsford	2030
RD009610	Marine Parade (Undine Street to The End North), Maroubra	2030
RD008477	Kelly Street (Kelly Lane to The End), Matraville	2030
RD008712	Kingsford Street (Cobham Street to Bunnerong Road), Maroubra	2030
RD008865	Landy Street (Oxley Street to Hillary Parade), Matraville	2030
RD008126	Ireton Street (Victoria Street to Dacre Street), Malabar	2030
RD004996	Barrett Place (Gilderthorpe Avenue to The End), Randwick	2030
RD003620	Carnegie Circuit - East (Dampier Street to Warburton Street), Chifley	2030
RD001997	Bond Street (Marine Parade to Bona Vista Avenue), Maroubra	2030
RD001674	Beauchamp Road (Anzac Parade to Poulet Street), Matraville	2031
RD013414	Victory Street (Cliffbrook Parade to Clovelly Road), Clovelly	2031
RD009902	Melba Avenue (Lasseter Avenue to Mawson Parade), Chifley	2031
RD009430	Major Street (Arcadia Street to The End), Coogee	2031
RD008086	Strickland Avenue (Beauchamp Road to The End), Maroubra	2031
RD007208	Hannan Street (Snape Street to Storey Street), Maroubra	2031
RD007228	Hannan Street (Gale Road to Mason Street), Maroubra	2031
RD003009	Bundock Street (Malabar Road to Hendy Avenue), South Coogee	2031
RD002477	Bow Lane (Kennedy Street to Willis Street), Kingsford	2031
RD014133	Rae Lane (Rae Street to The End), Randwick	2031
RD006449	Franklin Street (Bunnerong Road to Blaxland Street), Matraville	2031
RD019690	George Street (Albert Street to Alison Road), Randwick	2031
RD019726	West Lane (Rainbow Lane to The End), Randwick	2031
RD005884	Evans Street (Govett Street to Darley Road), Randwick	2031
RD001045	Arthur Lane (Waratah Avenue to Arthur Street), Randwick	2031
RD001755	Bell Street (Boyce Road to The End), Maroubra	2031
FR002846	Weller Lane (Hannan Street to The End), Maroubra	2031
FR001852	Mears Lane (Mears Avenue to The End), Randwick	2031
RD004204	Clovelly Road (Frenchmans Road to Carrington Road), Randwick	2031
RD004395	Cook Street (Alison Road to Frances Street), Randwick	2031
RD002387	Botany Street (Barker Street to High Street), Kingsford	2031
FR002099	Meeks Lane (Middle Street to Meeks Street), Kingsford	2031
FR002111	Oval Lane (Willis Street to Botany Street), Randwick	2031
FR001574	Judge Lane (Heath Street to The End), Randwick	2031
RD009380	Macquarie Street (Mitchell Street to Forrest Street), Chifley	2031
RD000744	Anzac Parade (Beauchamp Road to Franklin Street), Matraville	2031
RD013506	Walsh Avenue (Fitzgerald Avenue to Donovan Avenue), Maroubra	2031
FR002770	Ada Lane (Mears Avenue to The End), Randwick	2031
FR002792	Centennial Avenue (Width Change to The End), Randwick	2031
FR002812	Clift Lane (Fern Street to Barry Street), Clovelly	2031

FR002610	Wilson Street (Marine Parade to Torrington Road), Maroubra	2031
FR002656	Aeolia Lane (Aeolia Street to The End), Randwick	2031
FR002503	Vale Street (Arden Street to The End), Clovelly	2031
FR002577	White Street (Wentworth Street to Dangar Street), Randwick	2031
FR002579	White Street (Dangar Street to Govett Street), Randwick	2031
FR002320	Scott Lane (Scott Street to Tyrwhitt Street), Maroubra	2031
FR002212	Prince Lane (Prince Street to Church Street), Randwick	2031
FR002276	Ritchard Avenue (Mount Street to Pauling Avenue), Coogee	2031
FR002048	Sturt Lane (Sturt Street to Botany Road), Kingsford	2031
FR002056	Northumberland Lane (Park Lane to Warner Avenue), Clovelly	2031
FR001634	Knox Street (Clovelly Road to Greville Street), Clovelly	2031
FR001649	Kurrawa Avenue (Carr Street to Paul Lane), Coogee	2031
FR001363	Harbourne Lane (Forsyth Street to Harbourne Road), Kingsford	2031
FR001010	Duke Street (Boronia Street to Anzac Parade), Kensington	2031
FR000877	Dangar Lane (White Street to Tramway Lane), Randwick	2031
FR000704	Challis Lane (Wentworth Street to Earl Street), Randwick	2031
FR000753	Clifford Street (The End to Mount Street), Coogee	2031
FR000533	Huddart Lane (Dangar Street to Dangar Lane), Randwick	2031
FR000471	Kennedy Lane (Norton Street to Oval Lane), Kingsford	2031
FR000228	Balfour Road (Salisbury Road to Duke Street), Kensington	2031
FR000086	Brompton Road (Todman Avenue to Brompton Road), Kensington	2031
FR000137	Apsley Lane (Jacques Street to Anzac Parade), Kingsford	2031
FR000005	Abbotford Lane West (Abbotford Street to Alison Road), Kensington	2031
RD017057	Bell Street (Boyce Road to The End), Maroubra	2031
FR002483	Tower Street (Battery Street to The End), Clovelly	2031
FR000933	Dine Street (St Pauls Street to Barker Street), Randwick	2031
FR002416	Surfside Avenue (Park Street to Keith Street), Clovelly	2031
FR000939	Division Street (Arden Street to Brook Street), Coogee	2031
RD011276	Road Pavement - Oxford Street (York Road To Lang Road)	2032
FR002414	Surfside Avenue (Bruce Avenue to Park Street), Clovelly	2032
RD010619	Moverly Road (Henning Avenue to Elphinstone Road), South Coogee	2032
FR002109	Oswald Street (Courland Street to Clyde Street), Randwick	2032
FR001008	Duke Street (Kensington Road to Boronia Street), Kensington	2032
FR000839	Cowper Street (Alison Road to Prince Street), Randwick	2032
FR000268	Barry Street (Clovelly Road to Greville Street), Clovelly	2032
FR000035	Albert Street (Pitt Street to Avoca Street), Randwick	2032
FR001207	Franklin Street (Prince Edward Street to The End), Malabar	2032
FR011652	Fleming Street (Brodie Avenue to Darwin Avenue), Little Bay	2032
FR011653	Curie Street (Pine Avenue to Fleming Street), Little Bay	2032
FR002648	Young Street (Barker Street to The End), Randwick	2032
FR002665	Wallace Lane (Wallace Street to Rainbow Street), Randwick	2032
FR002703	Dacre Lane (Raglan Street to Ireton Street), Malabar	2032
FR002743	Anthony Lane (Sharp Street to Dive Street), Matraville	2032
FR002551	Warner Avenue (Campbell Street to Ocean Street), Clovelly	2032

FR002334	See Lane (Houston Road to Day Lane), Kingsford	2033
FR002376	Stephen Lane (Wentworth Street to The End), Randwick	2033
FR002445	The Avenue (Alison Road to Frances Street), Randwick	2033
FR002188	Pitt Street (Alison Road to The End), Randwick	2033
FR002251	Rainbow Street (The End to Wolseley Road), Coogee	2033
FR002140	Park Street (Surfside Avenue to The End), Clovelly	2033
FR001868	Melrose Parade (Tower Street to The End), Clovelly	2033
FR001893	Middle Lane (Meeks Street to Middle Street), Kingsford	2033
FR001720	Lorne Avenue (Roma Avenue to The End), Kensington	2033
FR001587	Kelly Street (Kelly Lane to The End), Matraville	2033
FR001669	Lee Street (Howard Street to St Pauls Street), Randwick	2033
FR001404	Henry Street (Meymott Street to Oberon Street), Randwick	2033
FR001524	Isis Lane (Irvine Street to Botany Street), Kingsford	2033
FR001211	Franklin Street (Lawson Street to The End), Matraville	2033
FR000969	Don Juan Avenue (Coogee Bay Road to The End), Randwick	2033
FR000982	Douglas Street (The End to Varna Street), Clovelly	2033
FR001006	Duke Street (Balfour Road to Kensington Road), Kensington	2033
FR000692	Carter Lane (Castle Lane to The End), Randwick	2033
FR000592	Darley Lane (Clovelly Road to Avoca Street), Randwick	2033
FR000215	Avoca Lane (Howard Lane to Kara Street), Randwick	2033
FR000234	Balfour Lane (Balfour Road to Kensington Road), Kensington	2033
FR000326	Carlton Lane (Abbotford Street to Abbotford Street), Kensington	2033
FR000143	Arcadia Street (Beach Street to Arden Street), Coogee	2033
RD019240	Sims Lane (New Orleans Crescent to Minneapolis Crescent), Maroubra	2033
FR001457	Hooper Lane (Darley Road to Pine Street), Randwick	2033
FR000386	Puck Lane (Kara Street to Howard Lane), Randwick	2033
FR000053	Alison Road (Brook Street to Leeton Avenue), Coogee	2033
FR000003	Abbotford Street (Anzac Parade to Doncaster Avenue), Kensington	2033
RD010574	Meyler Close (Ewing Avenue to Ewing Avenue), Little Bay	2033
RD002161	Unnamed Lane Chifley No 1 (Burke Street to The End), Chifley	2033
RD001313	Balfour Road (Salisbury Road to Duke Street), Kensington	2033
RD001323	Balfour Road (Duke Street to Todman Avenue), Kensington	2033
RD001523	Bass Street (Anzac Parade to Sturt Street), Kingsford	2033
RD014798	Baird Lane (Baird Avenue to Beauchamp Road), Matraville	2033
RD013162	Todman Avenue (Dowling Street to Balfour Road), Kensington	2033
RD012370	Sackville Street (Duncan Street to Marine Parade), Maroubra	2033
RD012390	Scott Street (Broome Street to Malabar Road), Maroubra	2033
RD012490	Shackel Avenue (Bruce Avenue to The End), Clovelly	2033
RD011935	Raglan Street (Austral Street to Prince Edward Street), Malabar	2033
RD011002	Norton Lane (Oval Lane to Norton Street), Kingsford	2033
RD011022	Nurla Avenue (Little Bay Road to Binda Crescent), Little Bay	2033
RD009410	Magill Street (The End to Botany Street), Randwick	2033
RD009620	Marine Parade (Undine Street to The End South), Maroubra	2033
RD009720	Maroubra Road (Anzac Parade to Hannan Street), Maroubra	2033

RD008446	Karoo Place (Bilga Crescent to The End), Malabar	2033
RD006896	Gipps Avenue (Grose Street to Dwyer Avenue), Little Bay	2033
RD007258	Hannan Street (Glenfield Street to Maroubra Road), Maroubra	2033
RD005439	Duncan Street (Mons Avenue to Malabar Road), Maroubra	2033
RD004976	Denning Street (Evelyn Street to Garie Place), South Coogee	2033
RD003993	Chicago Avenue (Portland Crescent to Beauchamp Road), Maroubra	2033
RD002667	Bream Street (Arden Street to Brook Street), Coogee	2033
RD002497	Boyce Road (Bell Street to Flower Street), Maroubra	2033
RD001333	Balfour Road (Todman Avenue to Addison Street), Kensington	2033
RD000386	Allan Avenue (Keith Street to The End), Clovelly	2033
RD000834	Arcadia Street (Major Street to Beach Street), Coogee	2033
FR001336	Hall Street (Lasseter Avenue to Hastings Avenue), Chifley	2033
FR000319	Bella Street (Pine Street to The End), Randwick	2033
RD014344	Metcalfe Street (Cooper Street to Flower Street), Maroubra	2033
RD014414	Green Street (Anzac Parade to Garden Street), Maroubra	2033
RD012158	Rigney Avenue (Sturt Street to The End), Kingsford	2033
RD009792	Maxwell Avenue (Duncan Street to The End), Maroubra	2033
RD010123	Midway Drive (Minneapolis Crescent to Chester Avenue), Maroubra	2033
RD008611	Kensington Road (Duke Street to Todman Avenue), Kensington	2033
RD005490	Jacaranda Place (Jacaranda Place to The End North), South Coogee	2033
RD002957	Bruce Bennetts Place (Piccadilly Place to Maroubra Road), Maroubra	2033
RD000466	Brompton Road (Brompton Road to Black Lion Place), Kensington	2033
FR002400	West Lane (Rainbow Lane to The End), Randwick	2033
FR002062	Norton Lane (Oval Lane to Norton Street), Kingsford	2033
FR001962	Mort Lane (White Street to Govett Lane), Randwick	2033
FR001391	Helena Lane (Helena Street to Rainbow Lane), Randwick	2033
FR001298	Kenneth Lane (Kennedy Street to Botany Lane), Kingsford	2033
FR000929	Dewey Court (Portland Crescent to The End), Maroubra	2033
FR000935	Dine Lane (Avoca Lane to Barker Street), Randwick	2033
RD015078	Pacific Lane (Boundary Street to The End), Clovelly	2033
RD013384	Victoria Street (Napier Street to Raglan Street), Malabar	2033
RD012460	See Street (Doncaster Avenue to Houston Road), Kingsford	2033
RD009590	Marine Parade (Wilson Street to Maroubra Road), Maroubra	2033
RD006135	Fischer Street (Irvine Street to Anzac Parade), Kingsford	2033
RD017040	Arthur Lane (Waratah Avenue to Arthur Street), Randwick	2033
FR002776	Bruce Avenue (Eastbourne Avenue to Surfside Avenue), Clovelly	2033
FR000415	Power Lane (Castle Lane to Clovelly Road), Randwick	2033
RD012550	Short Street (Avoca Street to Belmore Road), Randwick	2033
RD004636	Curtin Crescent (Broome Street to Broome Street), Maroubra	2033
RD012148	Reservoir Street (Dwyer Avenue to Jennifer Street), Little Bay	2033
RD012500	Sharp Street (Jersey Road to Beauchamp Road), Matraville	2033
RD011522	Paton Street (Rainbow Street to Sturt Street), Kingsford	2033
RD010962	Northumberland Street (Boundary Street to Warner Avenue), Clovelly	2033
RD009852	Meeks Street (Harbourne Road to Forsyth Street), Kingsford	2033

RD010183	Milroy Avenue (Carminya Street to Baker Street), Kensington	2033
RD009086	Lion Street (Oberon Street to Howard Street), Randwick	2033
RD009480	Malabar Road (Torrington Road to Maroubra Road), Maroubra	2033
RD009490	Malabar Road (Maroubra Road to Duncan Street), Maroubra	2034
RD006642	Gale Road (Garden Street to Cooper Street), Maroubra	2034
RD005834	Ethel Street (Henry Street to Howard Street), Randwick	2034
RD006499	Fraser Street (Clovelly Road to The End), Randwick	2034
RD006519	French Street (Mons Avenue to Maroubra Road), Maroubra	2034
RD005600	Earl Street (Challis Street to Stephen Street), Randwick	2034
RD003700	Carrington Road (Coogee Bay Road to Dolphin Street), Coogee	2034
RD002747	Brisbane Street (Eyre Street to Macquarie Street), Chifley	2034
RD003358	Byrne Crescent (Broome Street to Ford Road), Maroubra	2034
RD000476	Brompton Road (Black Lion Place to The Serpentine), Kensington	2034
RD014537	Jersey Road (Robey Street to Bunnerong Road), Matraville	2034
RD013813	Wild Street (Cobham Street to Bunnerong Road), Maroubra	2034
RD013933	Winburn Avenue (Tunstall Avenue to Eastern Avenue), Kingsford	2034
RD014314	Mason Street (Royal Street to Hannan Street), Maroubra	2034
RD013465	Walenore Avenue (Irvine Street to Botany Street), Kingsford	2034
RD013660	Waterside Avenue (Lurline Street to The End), Maroubra	2034
RD012611	Snape Street (Bunnerong Road to Anzac Parade), Kingsford	2034
RD009802	Meagher Avenue (Broome Street to Malabar Road), Maroubra	2034
RD008467	Keith Street (Boundary Street to Clovelly Road), Clovelly	2034
RD008548	Kennedy Street (Middle Street to Meeks Street), Kingsford	2034
RD006784	Cedar Place (Argyle Crescent to The End), South Coogee	2034
RD003973	Chester Avenue (Minneapolis Crescent to Fitzgerald Avenue), Maroubra	2034
RD010002	Mermaid Avenue (Malabar Road to Lurline Street), Maroubra	2034
RD010343	Mons Avenue (French Street to Malabar Road), Maroubra	2034
RD006419	Frances Street (Cook Street to The Avenue), Randwick	2034
RD000081	Adams Avenue (Nix Avenue to Prince Edward Street), Malabar	2034
RD000291	Alison Road (Carrington Road to Pitt Street), Randwick	2034
RD010862	Nevorie Crescent (Nevorie Crescent to Hannan Street), Maroubra	2034
RD010353	Mons Avenue (Malabar Road to Marine Parade), Maroubra	2034
RD005650	Eastern Avenue (Day Avenue to Tressidder Avenue), Kingsford	2034
RD007763	Road Surface - Holmes Street (Henning Avenue To Garden Street)	2034
RD005804	Elphinstone Road (Iluka Place to Moverly Road), South Coogee	2034
RD001977	Bona Vista Avenue (Sackville Street to Bond Street), Maroubra	2034
RD002377	Botany Street (Middle Street to Barker Street), Randwick	2034
RD014617	Anthony Lane (Dive Street to The End), Matraville	2034
RD014708	Rossiter Lane (Malabar Road to Maxwell Avenue), Maroubra	2034
RD012350	Russell Court (Portland Crescent to The End), Maroubra	2034
RD012701	Stewart Avenue (Milne Avenue to Daunt Avenue), Matraville	2034
RD012811	Ash Place (Cedar Place to The End), South Coogee	2034
RD010792	Napier Street (Victoria Street to Bay Parade), Malabar	2034
RD010982	Norton Street (Botany Street to Kennedy Street), Kingsford	2034

RD011073	Oberon Street (Dundas Street to Arden Street), Coogee	2034
RD009328	Mclennan Avenue (Clovelly Road to The End), Randwick	2034
RD009530	Malabar Road (Beauchamp Road to The End), Maroubra	2034
RD009630	Marjorie Crescent (The End to Storey Street), Maroubra	2034
RD008246	Jellicoe Avenue (Paton Street to Avoca Street), Kingsford	2034
RD008426	Kara Street (Howard Street to Barker Street), Randwick	2034
RD008955	Leeton Avenue (Alison Road to The End South), Coogee	2034
RD008076	Ingram Street (Dowling Lane to Virginia Street), Kensington	2034
RD007419	Hayward Street (Anderson Street to Apsley Avenue), Randwick	2034
RD007855	Houston Road (Barker Street to Strachan Street), Kingsford	2034
RD006764	Garden Street (Holmes Street to The End), Maroubra	2034
RD006814	Garnet Street (Dundas Street to Cairo Street), South Coogee	2034
RD006876	Grevillea Place (Cedar Place to The End), South Coogee	2034
RD007339	Hargraves Place (Rodman Avenue to The End), Maroubra	2034
RD005954	Farthing Place (White Avenue to The End), Maroubra	2034
RD006239	Flood Street (Clovelly Road to Battery Street), Clovelly	2034
RD006329	Ford Road (Broome Street to The End), Maroubra	2034
RD006529	Tallow Place (Argyle Crescent to The End), South Coogee	2034
RD005339	Dudley Street (Beach Street to Arden Street), Coogee	2034
RD005630	Eastbourne Avenue (Ocean Street to Bruce Avenue), Clovelly	2034
RD005712	Edgecumbe Avenue (Dudley Street to The End), Coogee	2034
RD004966	Denning Street (Rainbow Street to Evelyn Street), South Coogee	2034
RD003600	Carminya Street (Milroy Avenue to Todman Avenue), Kensington	2034
RD000874	Archer Place (Cooper Street to The End), Maroubra	2034
RD000914	Arden Street (Division Street to Alison Road), Clovelly	2034
RD013833	William Street (Cowper Street to King Street), Randwick	2034
RD014174	Raby Lane (Albion Street to Douglas Street), Clovelly	2034
RD013485	Wallace Street (Botany Street to Width Change), Kingsford	2034
RD009832	Meehan Street (Hillary Parade to Lawson Street), Matraville	2034
RD009046	Liguria Street (Malabar Road to The End), South Coogee	2034
RD009056	Liguria Street (Seaside Parade to The End), South Coogee	2034
RD008518	Kennedy Street (Oval Lane to Norton Street), Kingsford	2034
RD008945	Leeton Avenue (The End North to Alison Road), Coogee	2034
RD002787	Brook Street (Oberon Street to Dudley Street), Coogee	2034
FR002822	Canberra Lane (Rainbow Street to Helena Street), Randwick	2034
FR002830	Ferguson Lane (Ferguson Street to The End), Maroubra	2034
FR002733	Goolagong Place (Adina Avenue to The End), La Perouse	2034
FR002596	Willis Street (Barker Street to Middle Street), Kingsford	2034
FR002202	Powell Lane (Powell Street to Mount Lane), Coogee	2034
FR002042	Nicol Lane (Nicol Avenue to Maroubra Road), Maroubra	2034
FR001734	Mcdougall Street (Lenthall Street to The End), Kensington	2034
FR001746	Mcnair Avenue (Botany Street to Byrd Avenue), Kingsford	2034
FR001424	Hill Lane (Hill Street to Brook Street), Coogee	2034
FR001443	Hodgson Street (Cowper Street to The End), Randwick	2034

FR001447	Holkam Avenue (Prince Street to The End), Randwick	2034
FR001266	Gardeners Lane (Bruce Street to Houston Road), Kingsford	2034
FR000823	Cooper Lane (Mons Avenue to The End), Maroubra	2034
FR000690	Carter Street (Avoca Street to Castle Street), Randwick	2034
FR000559	Bundock Lane (Ellen Street to Canberra Street), Randwick	2034
FR000433	Bougainville Court (Portland Crescent to The End), Maroubra	2034
FR000057	Alison Road (Mount Street to Carrington Road), Coogee	2034
RD011987	Rainbow Street (Avoca Street to Canberra Street), Randwick	2034
RD007138	Haig Street (Anzac Parade to Mons Avenue), Maroubra	2034
RD017111	Lion Lane (Oberon Street to The End), Randwick	2034
RD017004	Uralla Place (Elphinstone Road to The End), South Coogee	2034
RD012781	Storey Street (Cooper Street to Amour Avenue), Maroubra	2034
RD011043	Nymboida Street (Malabar Road to Tucabia Street), South Coogee	2035
FR011644	Meyler Close (Ewing Avenue to Ewing Avenue), Little Bay	2035
FR002438	Tay Street (Alison Road to Anzac Parade), Kensington	2035
FR002170	Perouse Road (Barker Street to St Pauls Street), Randwick	2035
FR002278	Roberts Avenue (Frenchmans Road to Ravenswood Lane), Randwick	2035
FR001949	Mooramie Avenue (Day Avenue to Koorinda Avenue), Kensington	2035
FR001724	Lucas Avenue (Austral Street to Bilga Crescent), Malabar	2035
FR001726	Lurline Street (Torrington Road to Waterside Avenue), Maroubra	2035
FR001410	Higgs Street (Oberon Street to Dudley Street), Coogee	2035
FR001502	Iluka Place (Elphinstone Road to The End), South Coogee	2035
FR001004	Duke Street (Todman Avenue to Balfour Road), Kensington	2035
FR000349	Bligh Place (Clovelly Road to The End), Randwick	2035
FR000331	Berwick Street (Mount Street to The End), Coogee	2035
FR002229	Rae Street (Avoca Street to Dutruc Street), Randwick	2035
FR002060	Norton Street (Kennedy Street to Willis Street), Kingsford	2035
FR001596	Kennedy Street (Norton Street to Barker Street), Kingsford	2035
FR011659	Darwin Avenue (Ewing Avenue to The End), Little Bay	2035
FR002600	Willis Street (Meeks Street to Rainbow Street), Kingsford	2035
FR001324	Grose Street (Anzac Parade to Reservoir Street), Little Bay	2035
FR001125	Fern Street (Greville Street to Douglas Street), Clovelly	2035
FR000427	Botany Street (Barker Street to High Street), Kingsford	2035
FR000131	Anzac Parade (Bunnerong Road to The End), Little Bay	2035
FR002632	Woomera Road (Little Bay Road to Bunnerong Road), Little Bay	2035
FR002608	Wills Avenue (Macquarie Street to Forrest Street), Chifley	2035
FR002717	Fisherman'S Road (Dacre Street to The End), Malabar	2035
FR002443	Tedwin Avenue (Inglethorpe Avenue to Tunstall Avenue), Kensington	2035

Appendix F Budget Summary by Lifecycle Activity

The planned budget for the relevant lifecycle activities is sufficient. There is no disposal cost considered as the assets will be renewed.

Table F1 – Budget Summary by Lifecycle Activity

Year	Acquisition	Operation	Maintenance	Renewal	Disposal	Total
2026	\$4,838,000	\$1,602,103	\$2,207,890	\$6,850,097	\$0	\$15,498,090
2027	\$4,212,500	\$1,617,805	\$2,229,530	\$7,459,678	\$0	\$15,519,513
2028	\$4,035,000	\$1,631,477	\$2,248,371	\$8,018,871	\$0	\$15,933,720
2029	\$3,310,000	\$1,644,573	\$2,266,419	\$7,543,871	\$0	\$14,764,863
2030	\$4,100,000	\$1,655,316	\$2,281,224	\$7,625,191	\$0	\$15,661,730
2031	\$4,100,000	\$1,668,623	\$2,299,563	\$7,625,191	\$0	\$15,693,376
2032	\$4,100,000	\$1,681,930	\$2,317,901	\$7,625,191	\$0	\$15,725,021
2033	\$4,100,000	\$1,695,237	\$2,336,240	\$7,625,191	\$0	\$15,756,667
2034	\$4,100,000	\$1,708,544	\$2,354,578	\$7,625,191	\$0	\$15,788,312
2035	\$4,100,000	\$1,721,851	\$2,372,917	\$7,625,191	\$0	\$15,819,958

