

## “ The programme of works

The CODC’s AMP follows information on capital works apportionment (as seen previously in this example tool) by listing their proposed 30-year transportation investments as set out in their 30-year Infrastructure Plan and 2018 Long Term Plan. The proposed investments are split out into maintenance and operations, and renewals and improvements.

The WDC’s AMP also provides similar details, including some narrative around it, as you’ll see in the extract below.



### 9.2.1 Historical Expenditure Trends

The roading department historically record and track a number of key investment measures, these are:

- Historical spend vs. Budget, *Figure 9-3*
- Flood damage Expenditure,

These measures provide an understanding of how renewal investment has occurred in the past, what impacts from major storm events have had and budget vs. Actual spend. From this, informed decisions can be made on how we have to invest into the future.

During the period 2002/03 to 2011/12, the Whangarei District Council had access to the 100% NZTA funded Regional Development programme to help alleviate the impact of heavy forestry traffic on local roads. This funding recognising that the burden of maintaining and renewing forestry roads could not be afforded by the local community. This investment happened over a 10 year period and was focused on 5% of the total sealed network. During this period Global Financial Crisis occurred and Council was focused on new infrastructure and improvement projects to manage other critical issues within the district; including roading and waste water treatment. This had resulted in a gradual reduction in renewal investment on the sealed pavements. However, from 2015 onwards global economics picked up, Council revised its position on renewal funding in light of revised LGA2002. Council respond with an increase in renewals expenditure which in turn rebalanced the long-term renewal vs. depreciation. Profile. funding vs. depreciation investment with a current investment gap of \$8M as illustrated in *Figure 9-2*.

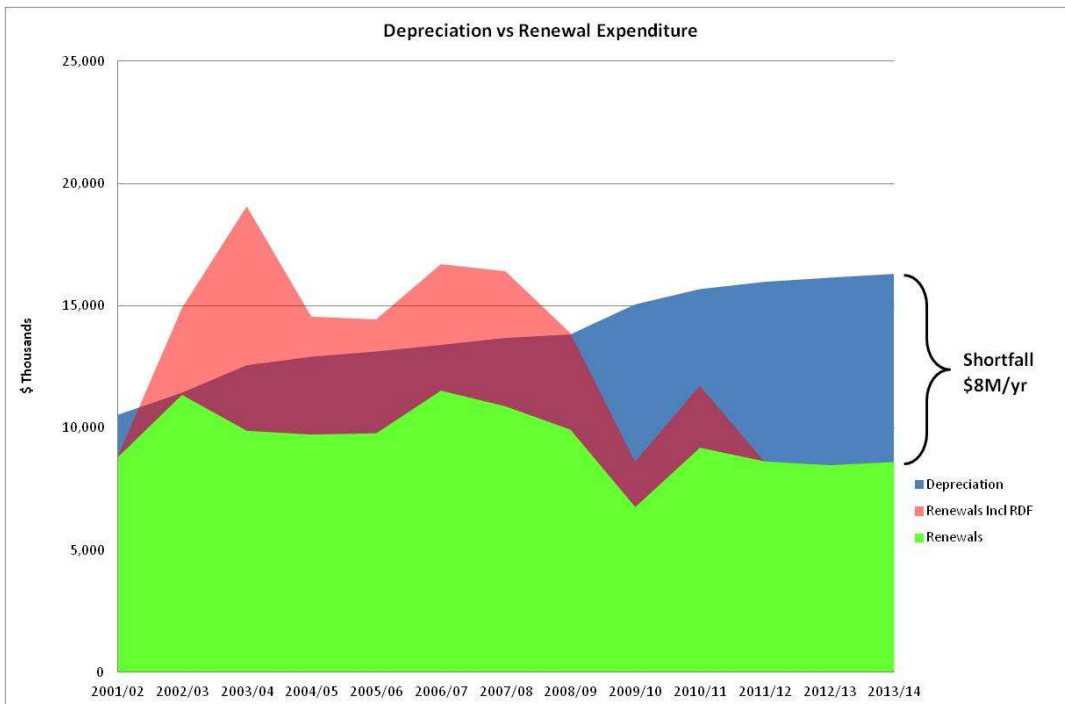


Figure 9-2: Historical Depreciation vs. Renewal

Source: Whangarei District Council Transportation AMP 2018-2048

Figure 9-3 illustrates the historical expenditure for the transport activity in relation to the approved budget.

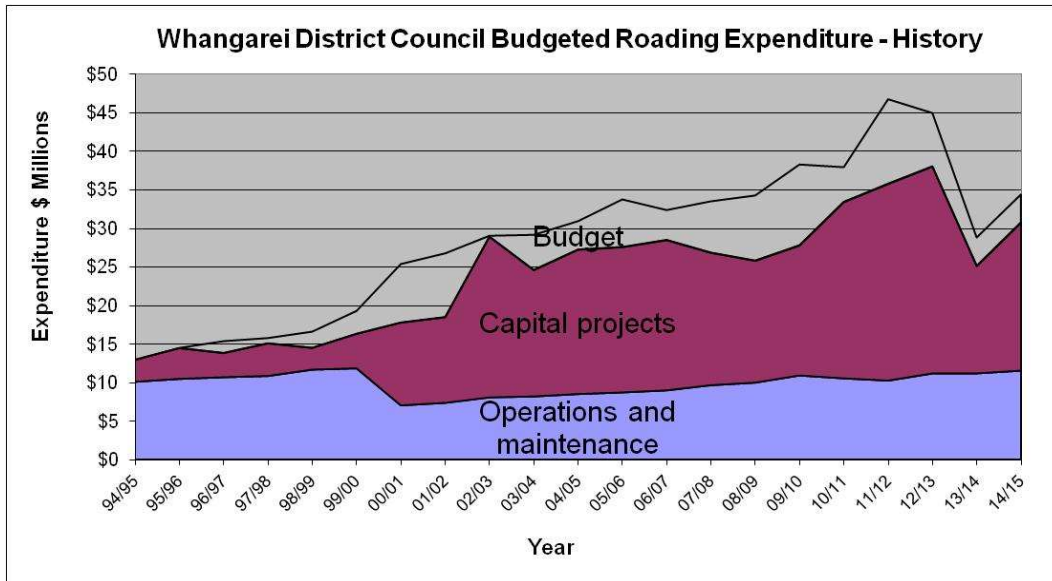


Figure 9-3: Historical Expenditure

Over the years the Roding Department has not been able to spend the allocated budget. This is due to funding storm damage from existing maintenance budgets, requested budget cuts from Council to fund other projects during the year or financial constraints. This illustrates that over the last 5 years roading have only had access to approximately 70% of the allocated budget. This effectively impacts on the condition and service levels that can be delivered.

### Historical Flood Damage Expenditure

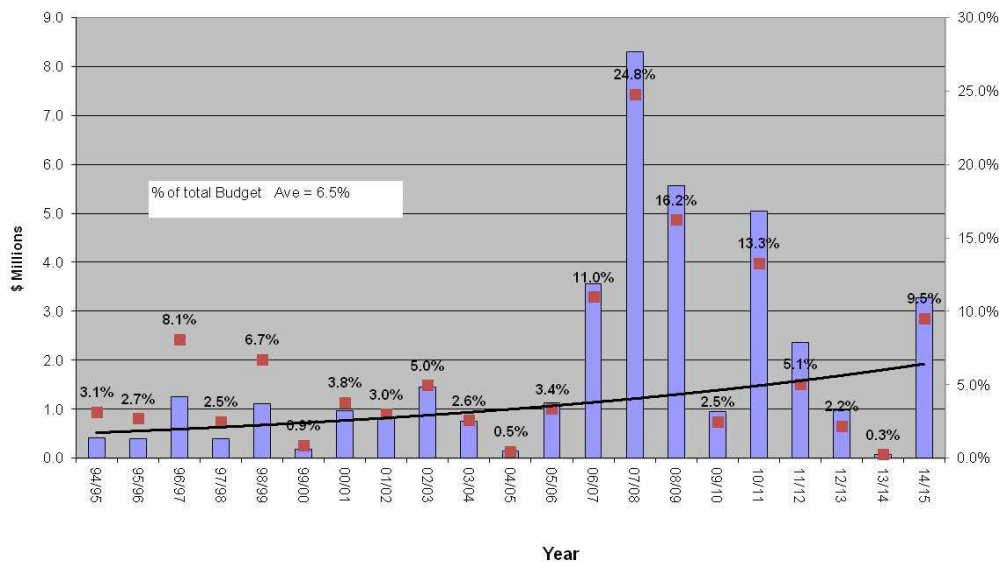


Figure 9-4: Flood Damage Expenditure Trends

Figure 9-4 illustrates the growing value of treating flood damage on the network. This value is growing and has a significant impact on available spend on network maintenance in the absence of a dedicated Emergency Flood damage budget.

Source: Whangarei District Council Transportation AMP 2018-2048

**Table 9-3: Routine and Planned Maintenance Expenditure**

		Values									
Asset Group Desc	Asset Type Desc	Sum of 2018/19	Sum of 2019/20	Sum of 2020/21	Sum of 2021/22	Sum of 2022/23	Sum of 2023/24	Sum of 2024/25	Sum of 2025/26	Sum of 2026/27	Sum of 2027/28
Drainage	Sub Surface Drainage	\$955,000	\$959,775	\$964,550	\$969,325	\$974,100	\$978,875	\$983,650	\$988,425	\$993,200	\$1,003,705
	Surface Water Channel	\$225,000	\$226,125	\$227,250	\$228,375	\$229,500	\$230,625	\$231,750	\$232,875	\$234,000	\$236,475
Emergency Works	Emergency Works	\$150,000	\$150,750	\$151,500	\$152,250	\$153,000	\$153,750	\$154,500	\$155,250	\$156,000	\$157,650
Parking (On & Off Street)	Carpark Assets	\$130,000	\$130,650	\$131,300	\$131,950	\$132,600	\$133,250	\$133,900	\$134,550	\$135,200	\$136,630
	Carpark Meters	\$126,000	\$126,630	\$127,260	\$127,890	\$128,520	\$129,150	\$129,780	\$130,410	\$131,040	\$132,426
	Electricity	\$11,200	\$11,256	\$11,312	\$11,368	\$11,424	\$11,480	\$11,536	\$11,592	\$11,648	\$11,771
Pavement	Pavement Sealed	\$4,050,000	\$4,118,850	\$4,187,700	\$4,256,550	\$4,325,400	\$4,340,000	\$4,408,000	\$4,476,000	\$4,544,000	\$4,652,000
	Unsealed Pavement	\$1,450,000	\$1,460,150	\$1,470,300	\$1,480,450	\$1,490,600	\$1,500,750	\$1,510,900	\$1,521,050	\$1,531,200	\$1,541,350
Street Scaping	Amenity Lighting	\$35,000	\$35,175	\$35,350	\$35,525	\$35,700	\$35,875	\$36,050	\$36,225	\$36,400	\$36,785
	Bus Shelters	\$30,000	\$40,200	\$50,500	\$50,750	\$51,000	\$51,250	\$51,500	\$51,750	\$52,000	\$52,550
	Environmental Management	\$250,000	\$251,250	\$252,500	\$253,750	\$255,000	\$256,250	\$257,500	\$258,750	\$260,000	\$262,750
	Street Furniture	\$10,000	\$10,050	\$10,100	\$10,150	\$10,200	\$10,250	\$10,300	\$10,350	\$10,400	\$10,510
	Street Lights	\$500,000	\$502,500	\$505,000	\$507,500	\$510,000	\$512,500	\$515,000	\$517,500	\$520,000	\$525,500
	Vegetation Management	\$1,080,000	\$1,085,400	\$1,090,800	\$1,096,200	\$1,101,600	\$1,107,000	\$1,112,400	\$1,117,800	\$1,123,200	\$1,135,080
Structures	Bridges & Major Culverts	\$300,000	\$301,500	\$303,000	\$304,500	\$306,000	\$307,500	\$309,000	\$310,500	\$312,000	\$315,300
	Lower Harbour Bridge	\$370,000	\$371,850	\$373,700	\$375,550	\$377,400	\$379,250	\$381,100	\$382,950	\$384,800	\$388,870
Traffic Control Devices	Intellignet Traffic Systems	\$60,000	\$60,300	\$60,600	\$60,900	\$61,200	\$61,500	\$61,800	\$62,100	\$62,400	\$63,060
	Level X-ings	\$50,000	\$50,250	\$50,500	\$50,750	\$51,000	\$51,250	\$51,500	\$51,750	\$52,000	\$52,550
	Pavement Marking	\$600,000	\$603,000	\$606,000	\$609,000	\$612,000	\$615,000	\$618,000	\$621,000	\$624,000	\$630,600
	Pedestrian Crossings	\$15,000	\$15,075	\$15,150	\$15,225	\$15,300	\$15,375	\$15,450	\$15,525	\$15,600	\$15,765
	Signs	\$125,000	\$125,625	\$126,250	\$126,875	\$127,500	\$128,125	\$128,750	\$129,375	\$130,000	\$131,375
	Traffic Signal	\$225,000	\$226,125	\$227,250	\$228,375	\$229,500	\$230,625	\$231,750	\$232,875	\$234,000	\$236,475
Walking & Cycleways	Foot Path	\$400,000	\$402,000	\$404,000	\$406,000	\$408,000	\$410,000	\$412,000	\$414,000	\$416,000	\$420,400
	Walk Ways (Unsub)	\$140,000	\$140,700	\$141,400	\$142,100	\$142,800	\$143,500	\$144,200	\$144,900	\$145,600	\$147,140
	Walking & Cycling	\$20,000	\$30,000	\$40,000	\$50,000	\$60,000	\$70,000	\$80,000	\$90,000	\$100,000	\$110,000
<b>Grand Total</b>		<b>\$11,307,200</b>	<b>\$11,435,186</b>	<b>\$11,563,272</b>	<b>\$11,681,308</b>	<b>\$11,799,344</b>	<b>\$11,863,130</b>	<b>\$11,980,316</b>	<b>\$12,097,502</b>	<b>\$12,214,688</b>	<b>\$12,406,717</b>

Source: Whangarei District Council Transportation AMP 2018-2048

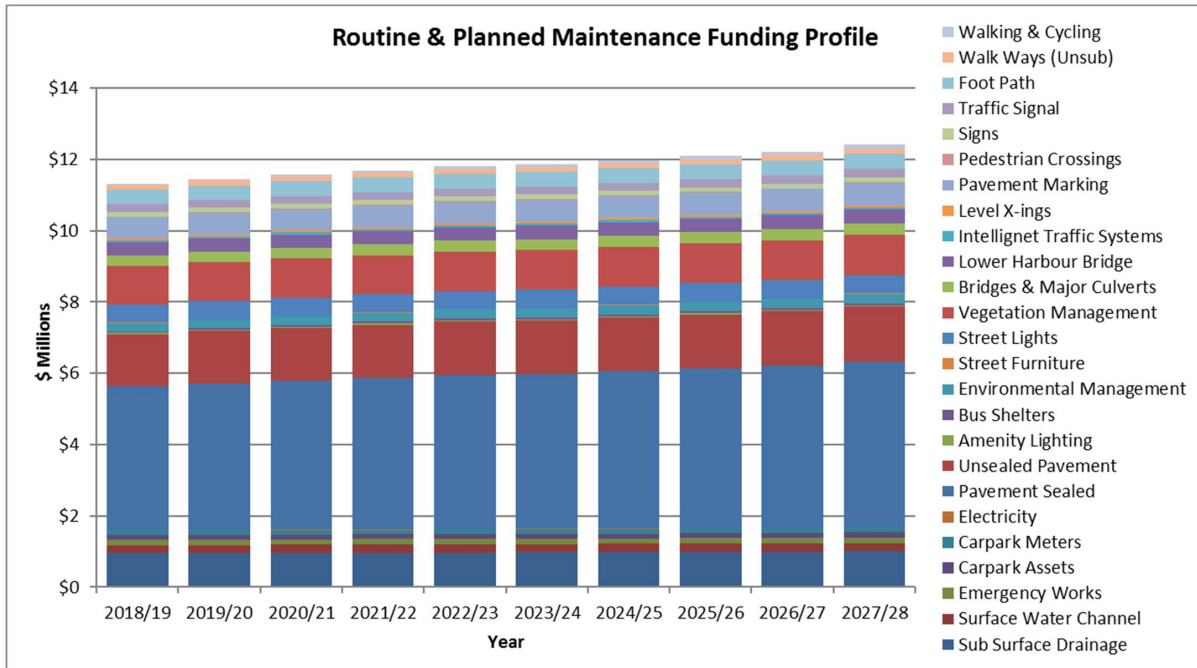


Figure 9-5: Routine & Planned Maintenance Expenditure

### 9.2.3 Renewal & Replacement

The renewals plan is based around the strategy of maintaining the investment in sealed pavement rehabilitations in order to reduce the escalating maintenance costs, close the gap on the current depreciation profile and deliver long term savings.

The renewals and replacement plan is shown in *Table 9-4* and

The renewals and maintenance plans are related. Any funding changes made in either area will require a review of the overall network strategy to deliver the required service levels.

Source: Whangarei District Council Transportation AMP 2018-2048

**Table 9-4: Renewals Expenditure**

Project Description	Values									
	Sum of 2018/19	Sum of 2019/20	Sum of 2020/21	Sum of 2021/22	Sum of 2022/23	Sum of 2023/24	Sum of 2024/25	Sum of 2025/26	Sum of 2026/27	Sum of 2027/28
Amenity Lighting	\$ -	\$ -	\$ 90,900.00	\$ 91,350.00	\$ 91,800.00	\$ 92,250.00	\$ 92,700.00	\$ 93,150.00	\$ 93,600.00	\$ 94,590.00
Replacement of Bridges & Other Structures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Unsealed Road Metalling	\$ 800,000.00	\$ 805,600.00	\$ 811,200.00	\$ 1,799,150.00	\$ 1,922,400.00	\$ 1,928,000.00	\$ 1,933,600.00	\$ 1,938,600.00	\$ 1,942,000.00	\$ 1,947,400.00
Structures - Coastal Protection Structures	\$ 80,000.00	\$ 80,400.00	\$ 80,800.00	\$ 81,200.00	\$ 81,600.00	\$ 82,000.00	\$ 82,400.00	\$ 82,800.00	\$ 83,200.00	\$ 84,080.00
Drainage - Structures New & Renewals	\$ 60,000.00	\$ 60,300.00	\$ 60,600.00	\$ 60,900.00	\$ 61,200.00	\$ 61,500.00	\$ 61,800.00	\$ 62,100.00	\$ 62,400.00	\$ 63,060.00
Drainage - Maint Gen K&C	\$ 600,000.00	\$ 603,000.00	\$ 606,000.00	\$ 609,000.00	\$ 612,000.00	\$ 615,000.00	\$ 618,000.00	\$ 621,000.00	\$ 624,000.00	\$ 630,600.00
Drainage - Sealed Rehab	\$ 400,000.00	\$ 402,000.00	\$ 404,000.00	\$ 406,000.00	\$ 408,000.00	\$ 410,000.00	\$ 412,000.00	\$ 414,000.00	\$ 416,000.00	\$ 420,400.00
Footpath - Renewals	\$ 318,000.00	\$ 326,850.00	\$ 335,700.00	\$ 346,550.00	\$ 357,400.00	\$ 369,250.00	\$ 382,100.00	\$ 381,950.00	\$ 381,800.00	\$ 381,470.00
Footpath - Renewals Others	\$ 30,000.00	\$ 30,150.00	\$ 30,300.00	\$ 30,450.00	\$ 30,600.00	\$ 30,750.00	\$ 30,900.00	\$ 31,050.00	\$ 31,200.00	\$ 31,530.00
Parking Off Street - Pavement Renewals	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Parking Off Street - Meters New & Renewal	\$ 120,000.00	\$ 120,600.00	\$ 121,200.00	\$ 121,800.00	\$ 122,400.00	\$ 123,000.00	\$ 123,600.00	\$ 124,200.00	\$ 124,800.00	\$ 126,120.00
Parking Off Street - Resurface	\$ 100,000.00	\$ 100,500.00	\$ 101,000.00	\$ 101,500.00	\$ 102,000.00	\$ 102,500.00	\$ 103,000.00	\$ 103,500.00	\$ 104,000.00	\$ 105,100.00
Sealed Pavement - Design MSQA	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Sealed Pavement - AWPT (Mini Rehab)	\$ 400,000.00	\$ 406,800.00	\$ 413,600.00	\$ 420,400.00	\$ 427,200.00	\$ 434,000.00	\$ 440,800.00	\$ 447,600.00	\$ 454,400.00	\$ 465,200.00
Sealed Pavement - Rehabilitation MI - Rehab Associated	\$ 3,500,000.00	\$ 3,559,500.00	\$ 3,619,000.00	\$ 3,678,500.00	\$ 3,738,000.00	\$ 3,797,500.00	\$ 3,857,000.00	\$ 3,916,500.00	\$ 3,976,000.00	\$ 4,070,500.00
Improvements	\$ 400,000.00	\$ 402,000.00	\$ 404,000.00	\$ 406,000.00	\$ 408,000.00	\$ 410,000.00	\$ 412,000.00	\$ 414,000.00	\$ 416,000.00	\$ 420,400.00
Sealed Road Resurfacing - Line Marking	\$ 100,000.00	\$ 101,700.00	\$ 103,400.00	\$ 105,100.00	\$ 106,800.00	\$ 108,500.00	\$ 110,200.00	\$ 111,900.00	\$ 113,600.00	\$ 116,300.00
Sealed Road Resurfacing - Chip Seal	\$ 2,900,000.00	\$ 2,949,300.00	\$ 2,998,600.00	\$ 3,047,900.00	\$ 3,097,200.00	\$ 3,146,500.00	\$ 3,195,800.00	\$ 3,245,100.00	\$ 3,294,400.00	\$ 3,372,700.00
Sealed Road Resurfacing - Management	\$ 100,000.00	\$ 101,700.00	\$ 103,400.00	\$ 105,100.00	\$ 106,800.00	\$ 108,500.00	\$ 110,200.00	\$ 111,900.00	\$ 113,600.00	\$ 116,300.00
Sealed Road Resurfacing - Thin Asphalt	\$ 1,000,000.00	\$ 1,017,000.00	\$ 1,034,000.00	\$ 1,051,000.00	\$ 1,068,000.00	\$ 1,085,000.00	\$ 1,102,000.00	\$ 1,119,000.00	\$ 1,136,000.00	\$ 1,163,000.00
Sealed Road Resurfacing - SCRIM	\$ 300,000.00	\$ 301,500.00	\$ 303,000.00	\$ 304,500.00	\$ 306,000.00	\$ 307,500.00	\$ 309,000.00	\$ 310,500.00	\$ 312,000.00	\$ 315,300.00
Seals	\$ 150,000.00	\$ 150,750.00	\$ 151,500.00	\$ 152,250.00	\$ 153,000.00	\$ 153,750.00	\$ 154,500.00	\$ 155,250.00	\$ 156,000.00	\$ 157,650.00
Structures - General Repair	\$ 200,000.00	\$ 201,000.00	\$ 202,000.00	\$ 203,000.00	\$ 204,000.00	\$ 205,000.00	\$ 206,000.00	\$ 207,000.00	\$ 208,000.00	\$ 210,200.00
Structures - Hvy Maint Bridges	\$ 150,000.00	\$ 150,750.00	\$ 151,500.00	\$ 152,250.00	\$ 153,000.00	\$ 153,750.00	\$ 154,500.00	\$ 155,250.00	\$ 156,000.00	\$ 157,650.00
Structures - Scour Protection	\$ 500,000.00	\$ 502,500.00	\$ 505,000.00	\$ 507,500.00	\$ 510,000.00	\$ 512,500.00	\$ 515,000.00	\$ 517,500.00	\$ 520,000.00	\$ 525,500.00
Structures - Ret Wall upgrade Replacement	\$ 200,000.00	\$ 201,000.00	\$ 202,000.00	\$ 203,000.00	\$ 204,000.00	\$ 205,000.00	\$ 206,000.00	\$ 207,000.00	\$ 208,000.00	\$ 210,200.00
Lighting Renewals	\$ 150,000.00	\$ 150,750.00	\$ 151,500.00	\$ 152,250.00	\$ 153,000.00	\$ 153,750.00	\$ 154,500.00	\$ 155,250.00	\$ 156,000.00	\$ 157,650.00
Signs Railings & facilities - Renewals	\$ 100,000.00	\$ 100,500.00	\$ 101,000.00	\$ 101,500.00	\$ 102,000.00	\$ 102,500.00	\$ 103,000.00	\$ 103,500.00	\$ 104,000.00	\$ 105,100.00
Railings	\$ 300,000.00	\$ 301,500.00	\$ 303,000.00	\$ 304,500.00	\$ 306,000.00	\$ 307,500.00	\$ 309,000.00	\$ 310,500.00	\$ 312,000.00	\$ 315,300.00
Traffic Signal - Renewals	\$ 100,000.00	\$ 100,500.00	\$ 101,000.00	\$ 101,500.00	\$ 102,000.00	\$ 102,500.00	\$ 103,000.00	\$ 103,500.00	\$ 104,000.00	\$ 105,100.00
ITS - Renewals	\$ 100,000.00	\$ 100,500.00	\$ 101,000.00	\$ 101,500.00	\$ 102,000.00	\$ 102,500.00	\$ 103,000.00	\$ 103,500.00	\$ 104,000.00	\$ 105,100.00
<b>Grand Total</b>	<b>\$ 13,058,000.00</b>	<b>\$ 13,228,150.00</b>	<b>\$ 13,489,200.00</b>	<b>\$ 14,644,150.00</b>	<b>\$ 14,934,400.00</b>	<b>\$ 15,108,000.00</b>	<b>\$ 15,282,600.00</b>	<b>\$ 15,443,600.00</b>	<b>\$ 15,603,000.00</b>	<b>\$ 15,868,400.00</b>

Source: Whangarei District Council Transportation AMP 2018-2048

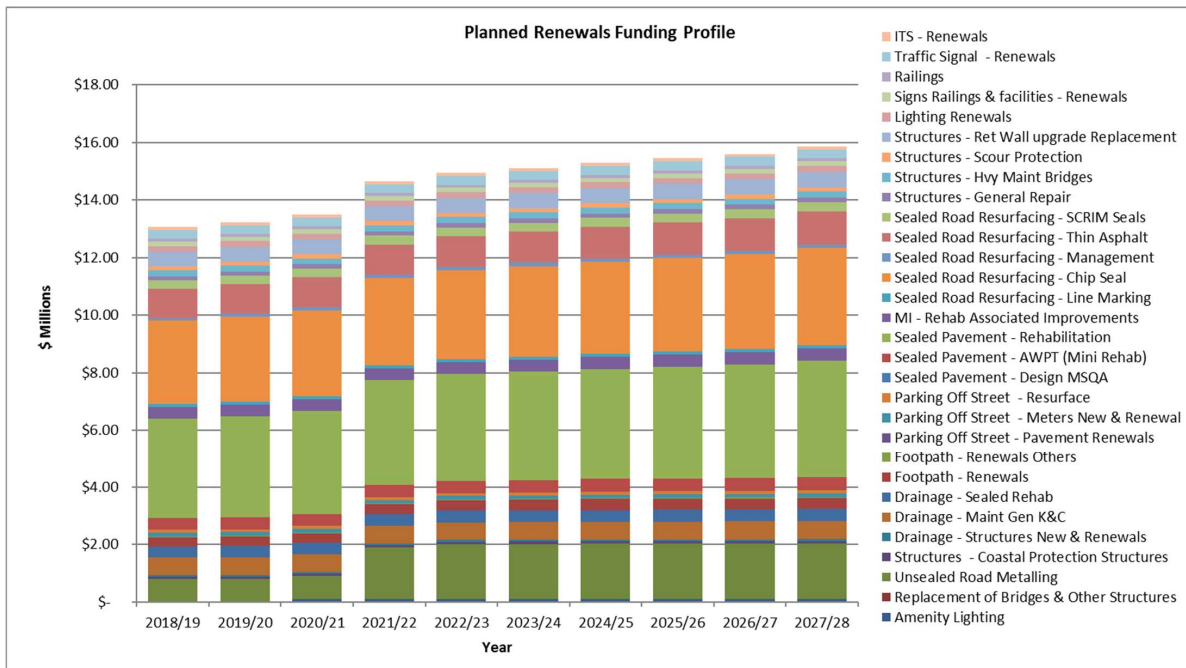


Figure 9-6: Renewals Expenditure

9.2.4 Capital New & Improvement Expenditure

Most of the major capital projects to address demand and provide future capacity for growth have been completed over the past 8 years.

Over the next 10 years the traffic growth model has not identified any major demand issues on the network and therefore most of the growth projects are outside of the 10 year the horizon. However, there are some medium intersection upgrades that are now programmed over the next 10 years to reduce congestion at pinch point and to maximise the benefits of the previous investment in major capital works such as the Lower Hatea River Crossing and Porowini Avenue Extension projects.

Significant investment is programmed to continue for the Shared Path (Cycleway Strategy) over the term of this plan. In relation to this invest is being sought for Passenger Transport (PT) development and upgrade. these two investment strategies look to reduce the demand on the road network and encourage modal transport shift to Walking /cycling and PT.

Council have indicated that they wish to continue a programme of seal extension on the network. This plan is addressing this issue in a number of ways:

- The sealing of the Wright Road/McCardle Road forestry route is being sought with NZTA funding.
- Where houses have been identified as being close to an unsealed road and there is safety/health issues related to dust nuisance from heavy commercial vehicles then the sealing of 100m strips is being programmed.
- Where there is continuing request from the community to seal roads, a rate payer subsidy for the construction of the seal extension is required to certain value which council will then consider funding the balance. No other funding avenues are currently available for seal extension.

Table 9-5 and Figure 9-7 detail the funding for the planned new and improvement programme.

Source: Whangarei District Council Transportation AMP 2018-2048

**Table 9-5: Capital Improvement Expenditure**

Work Type	Primary Drivers	Project Description	Sum of 2018/19	Sum of 2019/20	Sum of 2020/21	Sum of 2021/22	Sum of 2022/23	Sum of 2023/24	Sum of 2024/25	Sum of 2025/26	Sum of 2026/27	Sum of 2027/28		
Improvement	Growth	Mill Rd/Nixon St/Kamo Rd	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
		Subdivision Works Contribution	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000		
		Tranportation Planning Studies & Strategies	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		PT - Bus Shelters New & Renewal	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	\$ 80,000	
		NI - Network Improvements (Other TBD)	\$ -	\$ -	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	
		MI - High Risk Roads / intersections / CRS	\$ 1,000,000	\$ 1,005,000	\$ 1,010,000	\$ 1,015,000	\$ 1,020,000	\$ 1,025,000	\$ 1,030,000	\$ 1,035,000	\$ 1,040,000	\$ 1,045,000	\$ 1,051,000	
		NI - Tarewa Rd Intersection Upgrade and Tarewa/Walt	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		NI - Riverside Drive Upgrades - 4 Laning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 3,000,000	\$ 7,000,000	\$ 8,000,000	
		NI - One Tree Point Road Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 840,000	\$ -	\$ -	
		NI - McEwan Road Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,064,000	\$ -	\$ -	
		NI - Ruakaka Beach Road Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,568,000	\$ -	\$ -	
		NI - Port Nikau/Kioreroa RAB and Bridge 4-laning	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000	\$ 3,000,000	
		MI - Intersection improvements	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		MI - Minor Improvements - Prog Management	\$ 100,000	\$ 100,500	\$ 101,000	\$ 101,500	\$ 102,000	\$ 102,500	\$ 103,000	\$ 103,500	\$ 104,000	\$ 104,500	\$ 105,100	
		MI - Misc works (sight benching and new parking signs	\$ 80,000	\$ 80,400	\$ 80,800	\$ 81,200	\$ 81,600	\$ 82,000	\$ 82,400	\$ 82,800	\$ 83,200	\$ 83,600	\$ 84,080	
		SOP - Kamo Business District Upgrade	\$ -	\$ -	\$ 279,000	\$ 287,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
		<b>Growth Total</b>			<b>\$ 2,310,000</b>	<b>\$ 1,315,900</b>	<b>\$ 3,100,800</b>	<b>\$ 3,114,700</b>	<b>\$ 2,833,600</b>	<b>\$ 2,839,500</b>	<b>\$ 4,345,400</b>	<b>\$ 8,823,300</b>	<b>\$ 13,357,200</b>	<b>\$ 13,370,180</b>
				Seal Extensions - Unsubsidised	\$ 800,000	\$ 800,000	\$ -	\$ -	\$ 800,000	\$ -	\$ 800,000	\$ -	\$ 800,000	\$ 400,000
				Seal Extensions - House Frontage Sealing	\$ 212,000	\$ 218,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
				MI - Streetlight Upgrades	\$ 500,000	\$ 502,500	\$ 505,000	\$ 507,500	\$ 510,000	\$ 512,500	\$ 515,000	\$ 517,500	\$ 520,000	\$ 525,500
			MI - Preventative Maintenance	\$ 1,000,000	\$ 1,005,000	\$ 1,010,000	\$ 1,015,000	\$ 1,020,000	\$ 1,025,000	\$ 1,030,000	\$ 1,035,000	\$ 1,040,000	\$ 1,051,000	
			NI - Int Imp - Water / Central upgrade	\$ -	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
			TP - CRS Study	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -		
			TP - WDC model update	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -	\$ -		
			AMP - ONRC	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000		
			TP - Urban Corridor Management Plans	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ -	\$ -		
			PT - Infrastructure Strategy	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
			PT - Bus Seats	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000		
			PT - Rose Street Terminal	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
			MI - Pedestrian safety	\$ 200,000	\$ 201,000	\$ 202,000	\$ 203,000	\$ 204,000	\$ 205,000	\$ 206,000	\$ 207,000	\$ 208,000	\$ 210,200	
			MI - Speed Management	\$ 300,000	\$ 301,500	\$ 303,000	\$ 304,500	\$ 306,000	\$ 307,500	\$ 309,000	\$ 310,500	\$ 312,000	\$ 315,300	
			MI - Traffic signals	\$ 500,000	\$ 502,500	\$ 505,000	\$ 507,500	\$ 510,000	\$ 512,500	\$ 515,000	\$ 517,500	\$ 520,000	\$ 525,500	
			MI - Te Matau a Pohe CCTV Upgrade and Remote Oper	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
		<b>Level of Service Total</b>		<b>\$ 4,272,000</b>	<b>\$ 6,090,500</b>	<b>\$ 2,735,000</b>	<b>\$ 2,291,500</b>	<b>\$ 3,102,000</b>	<b>\$ 2,262,500</b>	<b>\$ 3,123,000</b>	<b>\$ 2,233,500</b>	<b>\$ 3,044,000</b>	<b>\$ 2,667,100</b>	
		Renewal	MI - School Zones and driver feed back	\$ 100,000	\$ 100,500	\$ 101,000	\$ 101,500	\$ 102,000	\$ 102,500	\$ 103,000	\$ 103,500	\$ 104,000	\$ 105,100	
			MI - Bridge replacements	\$ 500,000	\$ 502,500	\$ 505,000	\$ 507,500	\$ 510,000	\$ 512,500	\$ 515,000	\$ 517,500	\$ 520,000	\$ 525,500	
		<b>Renewal Total</b>		<b>\$ 600,000</b>	<b>\$ 603,000</b>	<b>\$ 606,000</b>	<b>\$ 609,000</b>	<b>\$ 612,000</b>	<b>\$ 615,000</b>	<b>\$ 618,000</b>	<b>\$ 621,000</b>	<b>\$ 624,000</b>	<b>\$ 630,600</b>	
		<b>Improvement Total</b>		<b>\$ 7,182,000</b>	<b>\$ 8,009,400</b>	<b>\$ 6,441,800</b>	<b>\$ 6,015,200</b>	<b>\$ 6,547,600</b>	<b>\$ 5,717,000</b>	<b>\$ 8,086,400</b>	<b>\$ 11,677,800</b>	<b>\$ 17,025,200</b>	<b>\$ 16,667,880</b>	
	New	Growth	Footpaths - New	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	
			<b>Growth Total</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	<b>\$ 400,000</b>	
		Level of Service	Cycleways - CAPEX Programmed Work	\$ 2,718,000	\$ 3,053,000	\$ 2,013,000	\$ 1,968,000	\$ 1,507,000	\$ 1,280,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	
			Cycleways - Tikipunga	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
			<b>Level of Service Total</b>	<b>\$ 2,718,000</b>	<b>\$ 3,053,000</b>	<b>\$ 2,013,000</b>	<b>\$ 1,968,000</b>	<b>\$ 1,507,000</b>	<b>\$ 1,280,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	
		<b>New Total</b>	<b>\$ 3,118,000</b>	<b>\$ 3,453,000</b>	<b>\$ 2,413,000</b>	<b>\$ 2,368,000</b>	<b>\$ 1,907,000</b>	<b>\$ 1,680,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>	<b>\$ 900,000</b>		
		<b>Grand Total</b>		<b>\$ 10,300,000</b>	<b>\$ 11,462,400</b>	<b>\$ 8,854,800</b>	<b>\$ 8,383,200</b>	<b>\$ 8,454,600</b>	<b>\$ 7,397,000</b>	<b>\$ 8,986,400</b>	<b>\$ 12,577,800</b>	<b>\$ 17,925,200</b>	<b>\$ 17,567,880</b>	

Source: Whangarei District Council Transportation AMP 2018-2048

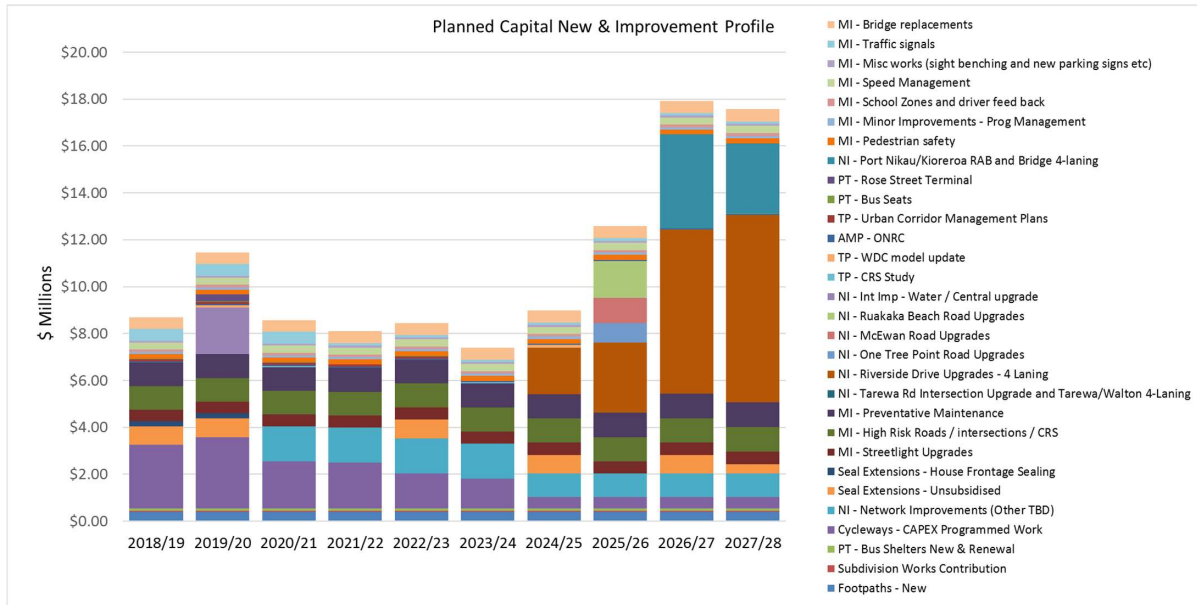


Figure 9-7: Capital Improvement Expenditure

There are a number of Service level projects planned such as Sense of Place projects. These are not generally capacity or renewal projects and therefore will be consider in terms of the overall service delivery council consider important to the district as a whole.

### 9.2.5 Department Operations Expenditure & Revenue

It is assumed that all the revenue for operations and maintenance is sourced from NZTA subsidy and general rates. Table 9-6 below shows the revenue streams for operations and maintenance. Note that the General Rates information was not available at the time of preparing this version of the plan so could not be included in the table.

Source: Whangarei District Council Transportation AMP 2018-2048



**Table 9-6: Operations and Maintenance Revenue**

		Values									
Asset Group Desc	Asset Type Desc	Sum of 2018/19	Sum of 2019/20	Sum of 2020/21	Sum of 2021/22	Sum of 2022/23	Sum of 2023/24	Sum of 2024/25	Sum of 2025/26	Sum of 2026/27	Sum of 2027/28
Business Unit	Charges	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340	\$2,340
<b>Business Unit Total</b>		<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>	<b>\$2,340</b>
Community Safety Progs	Community Rd Safe	\$100,000	\$251,250	\$404,000	\$406,000	\$408,000	\$410,000	\$412,000	\$414,000	\$416,000	\$420,400
	High Strategic Fit Road Safe	\$299,250	\$310,950	\$312,650	\$314,350	\$316,050	\$317,750	\$319,450	\$321,150	\$322,850	\$326,590
	Medium Strategic Fit Road Safe	\$10,000	\$10,050	\$10,100	\$10,150	\$10,200	\$10,250	\$10,300	\$10,350	\$10,400	\$10,510
<b>Community Safety Progs Total</b>		<b>\$409,250</b>	<b>\$572,250</b>	<b>\$726,750</b>	<b>\$730,500</b>	<b>\$734,250</b>	<b>\$738,000</b>	<b>\$741,750</b>	<b>\$745,500</b>	<b>\$749,250</b>	<b>\$757,500</b>
Department Operations	ADMIN	\$15,000	\$15,075	\$15,150	\$15,225	\$15,300	\$15,375	\$15,450	\$15,525	\$15,600	\$15,765
	Charges	\$230,838	\$231,563	\$168,658	\$169,068	\$169,478	\$169,888	\$170,298	\$170,708	\$171,118	\$172,020
	LEGAL	\$5,000	\$5,025	\$5,050	\$5,075	\$5,100	\$5,125	\$5,150	\$5,175	\$5,200	\$5,255
	Recoveries	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608	\$135,608
	User Fees	\$8,200	\$8,200	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000
<b>Department Operations Total</b>		<b>\$107,030</b>	<b>\$107,855</b>	<b>\$40,250</b>	<b>\$40,760</b>	<b>\$41,270</b>	<b>\$41,780</b>	<b>\$42,290</b>	<b>\$42,800</b>	<b>\$43,310</b>	<b>\$44,432</b>
Network & Asset Management	Asset Management	\$1,430,000	\$1,437,150	\$1,444,300	\$1,451,450	\$1,458,600	\$1,465,750	\$1,472,900	\$1,480,050	\$1,487,200	\$1,502,930
	Bridges & Major Culverts	\$91,550	\$92,100	\$92,650	\$93,200	\$93,750	\$94,300	\$94,850	\$95,400	\$95,950	\$97,160
	Corridor Co-ordination	\$135,000	\$135,675	\$136,350	\$137,025	\$137,700	\$138,375	\$139,050	\$139,725	\$140,400	\$141,885
	Data Collection & Condition Survey	\$330,000	\$331,650	\$333,300	\$334,950	\$336,600	\$338,250	\$339,900	\$341,550	\$343,200	\$346,830
	Land & Legislation	\$25,000	\$25,125	\$25,250	\$25,375	\$25,500	\$25,625	\$25,750	\$25,875	\$26,000	\$26,275
	Traffic Counting	\$100,000	\$100,500	\$101,000	\$101,500	\$102,000	\$102,500	\$103,000	\$103,500	\$104,000	\$105,100
<b>Network &amp; Asset Management Total</b>		<b>\$2,111,550</b>	<b>\$2,122,200</b>	<b>\$2,132,850</b>	<b>\$2,143,500</b>	<b>\$2,154,150</b>	<b>\$2,164,800</b>	<b>\$2,175,450</b>	<b>\$2,186,100</b>	<b>\$2,196,750</b>	<b>\$2,220,180</b>
NZTA	ADMIN	\$80,000	\$80,400	\$80,800	\$81,200	\$81,600	\$82,000	\$82,400	\$82,800	\$83,200	\$84,080
<b>NZTA Total</b>		<b>\$80,000</b>	<b>\$80,400</b>	<b>\$80,800</b>	<b>\$81,200</b>	<b>\$81,600</b>	<b>\$82,000</b>	<b>\$82,400</b>	<b>\$82,800</b>	<b>\$83,200</b>	<b>\$84,080</b>
Parking (On & Off Street)	Electricity	\$4,850	\$4,864	\$4,878	\$4,892	\$4,906	\$4,920	\$4,934	\$4,948	\$4,962	\$4,993
	User Fees	\$1,340,000	\$1,346,700	\$1,353,400	\$1,360,100	\$1,366,800	\$1,373,500	\$1,380,200	\$1,386,900	\$1,393,600	\$1,408,340
<b>Parking (On &amp; Off Street) Total</b>		<b>\$1,335,150</b>	<b>\$1,341,836</b>	<b>\$1,348,522</b>	<b>\$1,355,208</b>	<b>\$1,361,894</b>	<b>\$1,368,580</b>	<b>\$1,375,266</b>	<b>\$1,381,952</b>	<b>\$1,388,638</b>	<b>\$1,403,347</b>
Street Scaping	Amenity Lighting	\$15,000	\$15,075	\$15,150	\$15,225	\$15,300	\$15,375	\$15,450	\$15,525	\$15,600	\$15,765
<b>Street Scaping Total</b>		<b>\$15,000</b>	<b>\$15,075</b>	<b>\$15,150</b>	<b>\$15,225</b>	<b>\$15,300</b>	<b>\$15,375</b>	<b>\$15,450</b>	<b>\$15,525</b>	<b>\$15,600</b>	<b>\$15,765</b>
SUBOPEX	SUBOPEX	\$6,923,525	\$7,078,692	\$7,229,252	\$7,298,118	\$7,366,983	\$7,406,448	\$7,474,853	\$7,543,257	\$7,611,662	\$7,726,504
<b>SUBOPEX Total</b>		<b>\$6,923,525</b>	<b>\$7,078,692</b>	<b>\$7,229,252</b>	<b>\$7,298,118</b>	<b>\$7,366,983</b>	<b>\$7,406,448</b>	<b>\$7,474,853</b>	<b>\$7,543,257</b>	<b>\$7,611,662</b>	<b>\$7,726,504</b>
Walking & Cycleways	Electricity	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Walking &amp; Cycleways Total</b>		<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Grand Total</b>		<b>\$5,533,505</b>	<b>\$5,520,408</b>	<b>\$5,579,634</b>	<b>\$5,639,801</b>	<b>\$5,699,967</b>	<b>\$5,730,733</b>	<b>\$5,790,439</b>	<b>\$5,850,144</b>	<b>\$5,909,850</b>	<b>\$6,005,554</b>

Source: Whangarei District Council Transportation AMP 2018-2048