

Local Government Infrastructure Plan

**Technical Note: LGIP Road Network Project
Review**

September 2022

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Overview

The purpose of this technical note is to provide consolidated list of road network projects to be incorporated into the review of the Redland City Council Local Government Infrastructure Plan (LGIP). This combines previously identified safety and amenity upgrades to support developing areas as well as the network upgrades required to support future growth and demand.

The projects identified to support increase demand projections were identified by the Redland city Local Government Infrastructure Plan – Road Network Review undertaken by Veitch Lister Consulting, May 2022.

Project Costing

Road transport projects were given a value based on standard unit rates based on recent road upgrade projects that have been designed and/or constructed by Redland City Council. These unit rates are based on area rates of \$1000/m2 for rural road constructions and \$1500/m2 for more urbanised roads that require a higher level of drainage consideration.

For roads that will require a full reconstruction, these rates were applied to the full width of the road required depending on the hierarchy of the road and the site availability. For roads where a seal widening is planned, these rates were applied only to the width of new road assuming a small amount of reconstruction of the existing pavement.

Intersections that have been carried over from the previous LGIP were last costed in 2014. These prices have been updated to increase with CPI.

Projects to be retained in the LGIP

The following table is a list of road projects that are to remain as per the previous LGIP release with some amendments to timing to reflect the demand forecast by the Veitch Lister Consulting.

Item ID	Description	Infrastructure Type	Estimated timing	Works Direct Cost ¹ – 2022	Notes/ Actions
TR-P-20	Heinemann Road (Sub Arterial Road): Intersection upgrade at Double Jump Road	Intersection	2026-2031	\$649,038	Timing determined by VLC modelling
TR-L-78	New Major Collector - South East Thornlands: 2 lane collector Boundary Rd to Cleveland-Redland Bay	Trunk Road	2026-2031	\$2,310,000	SE Thornlands Structure Plan
TR-L-79	Double Jump Rd: Realignment Heinemann to Kingfisher	Trunk Road	2026-2031	\$3,156,606	Timing determined by VLC modelling
TR-L-80	New Major Collector Stub: 2 lane undivided trunk collector off Panorama Drive	Trunk Road	2021-2026	\$1,663,161	Timing determined by VLC modelling

¹ 'Works direct cost' excludes land costs, on-costs and contingencies.

TR-L-83	German Church Road: Seal widening from Cleveland-Redland Bay Road to Heinemann Road	Trunk Road	2026-2031	\$5,559,364	
TR-L-87	Wellington Street: Upgrade to 2 lanes plus breakdowns from South Street to Panorama Drive	Trunk Road	2021-2026	\$33,195,551	
TR-L-91	German Church Rd: Seal widening Cleveland Redland Bay to Gordon Rd and realignment School of Arts Rd	Trunk Road	2031-2036	\$6,316,848	Modified from previous LGIP - Only section from Redland Bay Rd to SOAR
TR-L-92	School of Arts Road: Seal widening and channelisation from German Church Road to Collins Street	Trunk Road	2031-2036	\$4,095,004	Modified from previous LGIP - Only western section
TR-L-93	Serpentine Creek Road: seal widening and channelisation from Collins St to Cleveland Redland Bay Rd	Trunk Road	2026-2031	\$7,618,761	
TR-L-94	Sturgeon Street: upgrade with auxiliary lanes from Northern Arterial Road to Starkey Street	Trunk Road	2031-2036	\$0	Only land cost specified in the LGIP
TR-L-97	Kingfisher Road: Seal widening and intersection upgrade from Eprapah Creek to Realignment	Trunk Road	2026-2031	\$8,569,958	Timing determined by VLC modelling
TR-L-98	Hamilton Street: Seal widening and channelisation from Pitt Street to Peel Street	Trunk Road	2031-2036	\$2,108,733	
TR-L-99	Springacre Road: Seal widening and intersection upgrade from Eprapah Creek to Eprapah Road	Trunk Road	2026-2031	\$742,767	Timing determined by VLC modelling
TR-L-100	Kinross Road: Divided major collector w/ breakdowns from Boundary Rd to 3rd new roundabout	Trunk Road	2021-2026	\$14,845,497	
TR-L-102	Pitt Street: Seal widening and channelisation from Weinam Street to Hamilton Street	Trunk Road	2031-2036	\$1,937,395	
TR-L-103	Dinwoodie Road: Upgrade to 2 lane major collector Cleveland-Redland Bay Road to Boundary Rd	Trunk Road	2031-2036	\$14,618,128	
TR-L-104	Wellington Street: upgrade 2 to 4 lanes from Enterprise Street to Russell Street	Trunk Road	2026-2031	\$62,620,666	
TR-L-105	Panorama Drive (Arterial Road): Upgrade from 2 to 4 lanes from Boundary Road to Wellington Rd	Trunk Road	2021-2026	\$51,197,855	Timing determined by VLC modelling
TR-L-106	Bunker Road (Sub Arterial Road): Seal widening from Brookvale Drive to Realignment	Trunk Road	2031-2036	\$20,328,751	
TR-L-108	Double Jump Road: Seal widening from Cleveland-Redland Bay Road to Heinemann Road	Trunk Road	2026-2031	\$54,858,547	Timing determined by VLC modelling
TR-L-109	Gordon Road: Intersection upgrades from Cleveland Redland Bay Road to Government Road	Trunk Road	2031-2036	\$8,506,221	

TR-L-111	Beveridge Rd: Upgrade collector Redland Bay Rd to Rachow St	Trunk Road	2026-2031	\$2,548,329	Timing determined by VLC modelling
TR-L-112	Meissner Street: Seal widening and intersection upgrade at Weinam Street Government Road	Trunk Road	2031-2036	\$1,902,851	
TR-L-115	Double Jump Rd: Realignment Heinemann to Kingfisher, new intersection Heinemann, roundabout Bunker	Trunk Road	2021-2026	\$8,349,802	Timing determined by VLC modelling

Projects to be added to the LGIP

The following new projects have been identified to support projected demand as determined by the Road Network Review or to support future sporting prescient development at Heinemann Road.

Item ID	Description	Infrastructure Type	Estimated timing	Works Direct Cost ¹	Notes/ Actions
TR-L-NEW	Rickertt Road – Tingalpa Creek Bridge to West of Thorneside Road – Duplications to 4 lanes	Trunk Road	2031 - 2036	\$10,000,000	NEW - Timing determined by VLC modelling

Projects to be removed from the LGIP

The following projects are proposed for removal either because they have been completed, they are not needed or they have constructability issues.

Item ID	Description	Infrastructure Type	Estimated timing	Works Direct Cost ¹ (Superseded)	Notes/ Actions
TR-P-4	Upgrade to existing intersection Old Cleveland Road East and Lloyd Vista	Intersection	2026-2031	\$660,963	Remove
TR-P-6	Mount Cotton Road: Change priority at existing signalised intersection at Redland Bay Road	Intersection	2031-2036	\$850,765	Remove
TR-P-7	Starkey Street (Trunk Collector Road): Channelisation improvements at Old Cleveland Road	Intersection	2031-2036	\$875,206	Remove
TR-P-8	Long Street (Trunk Collector Road): Intersection upgrade at Smith Street	Intersection	2021	\$1,102,912	Remove
TR-P-9	Ziegenfusz Road (Trunk Collector Road): New single lane roundabout at Trundle Street	Intersection	2021	\$735,275	Remove
TR-P-10	Benfer Road (Trunk Collector Road): Signalisation of intersection at Link Road	Intersection	2026-2031	\$350,831	Remove
TR-P-11	Hardy Road (Trunk Collector Road): Intersection upgrade at Collingwood	Intersection	2026	\$502,688	Remove
TR-P-12	Old Cleveland Road East (Sub Arterial Road): Signals at Randall Road	Intersection	2026-2031	\$350,831	Remove

TR-P-13	Old Cleveland Road East (Sub Arterial Road): Signals at Barron Street	Intersection	2026-2031	\$350,831	Remove
TR-P-14	Passage Street (Trunk Collector Road): Intersection upgrade at Princess Street	Intersection	2021-2026	\$61,396	Remove
TR-P-15	Collingwood Road (Trunk Collector Road): Intersection upgrade at Spoonbill Street	Intersection	2021	\$502,688	Completed
TR-P-16	Collingwood Road (Trunk Collector Road): Intersection upgrade at Lorna Street	Intersection	2021	\$1,102,912	Completed
TR-P-17	Pitt Road (Trunk Collector Road): Intersection upgrade at Nelson Street	Intersection	2031-2036	\$587,642	Remove
TR-P-19	Broadwater Terrace (Trunk Collector Road): Intersection upgrade Stradbroke Street	Intersection	2026-2031	\$850,765	Remove
TR-P-21	Northern Arterial Road (Arterial Road): Upgrade and signalisation of intersection at Sturgeon Street	Intersection	2031-2036	\$850,765	Remove
TR-P-26	Northern Arterial Road (Arterial Road): Roundabout at Wellington Street	Intersection	2031-2036	\$859,536	Remove
TR-P-28	Cleveland - Middle Street Major Bus Stop	Public Transport Corridor	2019 - 2021	\$0	Remove
TR-L-84	Mount Cotton Rd: Upgrade 2 lanes w/ breakdowns, intersection upgrades Moreton Bay Rd to Howlett Rd	Trunk Road	2036-2041	\$34,544,731	Remove
TR-L-85	Woodlands Drive: Seal widening and intersection upgrade from Taylor Road to Boundary Road	Trunk Road	2031-2036	\$10,818,966	Completed
TR-L-86	Woodlands Drive: Seal widening and intersection upgrade from Mt Cotton Road to Taylor Road	Trunk Road	2031-2036	\$4,784,387	Remove
TR-L-90	Giles Road: Road improvement and upgraded intersection from Heinemann to Cleveland-Redland Bay Rd	Trunk Road	2036-2041	\$13,002,843	Remove
TR-L-95	McDonald Road (Sub Arterial Road): Seal widening from Finucane Road to McMillan Road	Trunk Road	2036-2041	\$2,184,613	Remove
TR-L-96	Weinam Street: seal widening and chanelisation from Meissner Street to Pitt Street	Trunk Road	2031-2036	\$2,390,651	Remove
TR-L-101	Ney Road (Sub Arterial Road): Seal widening from Wildflower Street to Mt Cotton Road	Trunk Road	2036-2041	\$2,741,889	Remove
TR-L-107	Springacre Road: Seal widening and intersection upgrade from Boundary Road to Eprapah Road	Trunk Road	2036-2041	\$6,355,489	Remove
TR-L-110	Main Road (Sub Arterial Road): Seal widening to divided 2 lane sub arterial from Plumer to Duncan St	Trunk Road	2026-2031	\$2,700,000	Remove

