Part 4 Local government infrastructure plan

4.1 Preliminary

(1) This local government infrastructure plan has been prepared in accordance with the requirements of the Planning Act 2016.

(2) The purpose of the local government infrastructure plan is to:

- integrate infrastructure planning with the land use planning identified in the planning scheme
- provide transparency regarding a local government's intentions for the provision of trunk infrastructure
- enable a local government to estimate the cost of infrastructure provision to assist its long term financial planning
- ensure that trunk infrastructure is planned and provided in an efficient and orderly manner.
- provide a basis for the imposition of conditions about infrastructure on development approvals.

(3) The local government infrastructure plan:

(a) states in Section 4.2 (planning assumptions) the assumptions about future growth and urban development including the assumptions of demand for each trunk infrastructure network

(b) identifies in Section 4.3 (priority infrastructure area) the prioritised area to accommodate urban growth up to 2031

(c) states in Section 4.4 (desired standards of service) for each trunk infrastructure network the desired standard of performance

(d) identifies in Section 4.5 (plans for trunk infrastructure) the existing and future trunk infrastructure for the following networks:

(i) water supply

(ii) sewerage

(iii) stormwater

(iv) transport

(v) parks and land for community facilities

(e) provides a list of supporting documents that assist in the interpretation of the local government infrastructure plan in the Editor's note – Extrinsic material at the end of Section 4.

4.2 Planning assumptions

(1) The planning assumptions state the assumptions about:

(a) population and employment growth

(b) the type, scale, location and timing of development including the demand for each trunk infrastructure network.

(2) The planning assumptions together with the desired standards of service form a basis for the planning of the trunk infrastructure networks and the determination of the priority infrastructure area.

(3) The planning assumptions have been prepared for:

(a) the base date 2016 and the following projection years to accord with future Australian Bureau of Statistics census years:

(i) mid 2021;

(ii) mid 2026;

(iii) mid 2031;

(iv) ultimate development.

(b) the LGIP development types in column 2 that include the uses in column 3 of Table 1.

(c) the projection areas identified on Local Government Infrastructure Plan Map LGIP 01 in Schedule 3—Local government infrastructure plan mapping and tables.

Table 1 — Relationship between LGIP development categories, LGIP development types and uses

Column 1 **LGIP development category**	**Column 2** **LGIP development type**	**Column 3** **Uses**
Residential development	Attached dwelling (and other dwelling)	Caretaker's accommodation (attached), Community residence, Dual occupancy, Dwelling unit, Multiple dwelling, Non-resident workforce accommodation, Residential care facility, Relocatable home park, Retirement facility (attached), Rooming accommodation

Column 1 LGIP development category	Column 2 LGIP development type	Column 3 Uses
	Detached dwelling	Caretaker's accommodation (detached), Community residence (detached), Dwelling house, Retirement facility (detached)
Non-residential development	Commercial	Bar, Brothel, Function facility, Home based business, Hotel (non-residential component), Office, Parking station, Resort complex, Sales office, Short-term accommodation, Theatre, Tourist attraction, Tourist park, Veterinary services
	Community purpose	Cemetery, Club, Child care centre, Community care centre, Community use, Crematorium, Detention facility, Educational establishment, Emergency services, Funeral parlour, Hospital, Major sport recreation and entertainment facility, Outdoor sport and recreation, Park, Place of worship
	Industry	High impact industry, Low impact industry, Marine industry, Medium impact industry, Renewable energy facility, Research and technology industry, Special industry, Transport depot, Warehouse
	Retail (and Service)	Adult store, Agricultural supplies store, Bulk landscape supplies, Food and drink outlet, Garden centre, Hardware and trade supplies, Health care services, Indoor sport and recreation, Market, Nightclub entertainment facility, Outdoor sales, Service industry, Service station, Shop, Shopping centre, Showroom
	Other	Air services, Animal husbandry, Animal keeping, Aquaculture, Car wash, Cropping, Environment facility, Extractive industry, Intensive animal industry, Intensive horticulture, Landing, Major electricity infrastructure, Motor sport facility, Nature based tourism, Outstation, Permanent plantation, Port services, Roadside stall, Rural industry, Rural workers accommodation, Substation, Telecommunication facility, Utility installation, Wholesale nursery, Winery

(4) Details of the methodology used to prepare the planning assumptions are stated in the extrinsic material.

4.2.1 Population and employment growth

(1) A summary of the assumptions about population and employment growth for the planning scheme area is stated in Table 2 — Population and employment assumptions summary.

Table 2 — Population and employment assumptions summary

Column 1 Description	Column 2 Assumptions				
	2016	2021	2026	2031	Ultimate development
Population	29,265	30,085	30,461	31,288	46,788
Employment	12,903	13,154	13,324	13,630	22,442

(2) Detailed assumptions about growth for each projection area and LGIP development type category are identified in the following tables in Schedule 3 Local government infrastructure plan mapping and tables:

(a) for population, Table 911 — Existing and projected population

(b) for employment, Table 1012 — Existing and projected employees

4.2.2 Development

(1) The developable area is the area zoned for urban purposes not affected by the development constraints stated in Table 3 — Development constraints

Table 3 — Development constraints

Column 1 Development constraint	Column 2 Applicable components
Bushfire hazard overlay	The area subject to medium or high bushfire hazard
Coastal hazard overlay	The area subject to high or medium storm tide inundation
Flood hazard overlay	The area subject to medium or high flood hazard
Environmental significance overlay	The area identified as waterway, waterbody corridor, wetland or as including very high value vegetation

(2) The planned density for future development is stated in Table 1113 in Schedule 3—Local government infrastructure plan mapping and tables.

(3) A summary of the assumptions about future residential and non-residential development for the planning scheme area is stated in Table 4 — Residential dwellings and non-residential floor space assumptions summary.

Table 4 — Residential dwellings and non-residential floor space assumptions summary

Column 1 Description	Column 2 Assumptions				
	2016	2021	2026	2031	Ultimate development
Residential dwellings	12,830	13,340	13,611	14,091	22,000
Non-residential floor space (m2 GFA)	834,506	881,894	889,017	902,665	1,510,684

(4) Detailed assumptions about future development for each projection area and LGIP development type are identified in the following tables in Schedule 3 Local government infrastructure plan mapping and tables:

(a) for residential development, Table 911 — Existing and projected population and Table 1214 — Existing and projected residential dwellings

(b) for non-residential development, Table 1012 — Existing and projected employees and Table 1315 — Existing and projected non-residential floor space

4.2.3 Infrastructure demand

(1) The demand generation rate for a trunk infrastructure network is stated in Column 4 of Table 1113 in Schedule 3 Local government infrastructure plan mapping and tables.

(2) A summary of the projected infrastructure demand for each service catchment is stated in:

(a) for the water supply network, Table 1416 — Existing and projected demand for the water supply network

(b) for the sewerage network, Table 1517 — Existing and projected demand for the sewerage network

(c) for the stormwater network, Table 1618 — Existing and projected demand for the stormwater network

(d) for the transport network, Table 1719 — Existing and projected demand for the transport network

(e) for the parks and land for community facilities network, Table 1820 — Existing and projected demand for the parks and land for community facilities network

4.3 Priority infrastructure area

(1) The priority infrastructure area identifies the area prioritised for the provision of trunk infrastructure to service the existing and assumed future urban development up to 2031.

(2) The priority infrastructure area is identified on Local Government Infrastructure Plan Map LGIP—01.

4.4 Desired standards of service

(1) This section states the key standards of performance for a trunk infrastructure network.

(2) Details of the standard of service for a trunk infrastructure networks are identified in the extrinsic material.

4.4.1 Water supply network

Cassowary Coast Regional Council collects, treats, stores and conveys potable water in accordance with the Water Act 2000 and Australian Drinking Water Guidelines.

The design of the water supply network is in accordance with the FNQROC Regional Development Manual – Issue 7 (2017).

The key desired standards of service used to plan the water supply network are summarised in Table 5 — Water supply network desired standard of service.

Table 5 — Water supply network desired standard of service

Column 1 **Parameter**	**Column 2** **Standard for LGIP**
Average Day Demand	500 L/EP/ Day
Peaking Factor	2.25 x AD
DSS for Mains	
Minimum service pressure	22m head at peak hourly consumption
Firefighting requirements	
Residential	15 L/s for 2 hours
Commercial and Industrial	30 L/s for 4 hours
Minimum residual mains pressure during firefighting conditions	12m at an adjacent hydrant at the required background demand time, assuming that the elevation of the supply point is equal to the ground elevation of the hydrant.

4.4.2 Sewerage network

Cassowary Coast Regional Council collects, conveys, treats and releases sewage in accordance with the Water Act 2000.

- The design of the sewerage network is in accordance with the FNQROC Regional Development Manual – Issue 7 (2017).

The key desired standards of service used to plan the sewerage network are summarised in Table 6 — Sewerage network desired standard of service.

Table 6 — Sewerage network desired standard of service

Column 1 **Parameter**	**Column 2** **Standard for LGIP**
Average dry weather flow (ADWF) per EP, for sewerage network	270 L/EP/day
Peak wet weather flow (PWWF)	5 x ADWF
Maximum depth of flow at PWWF for gravity sewers	Max flow depth shall not exceed 75% pipe full
Maximum rising main velocity	2.5m/s

4.4.3 Stormwater network

The desired standard of service for the stormwater network is to:

1) Collect and convey stormwater in a system of natural and engineered channels, a piped drainage network and system of overland flow paths to a lawful point of discharge in a safe manner that minimises nuisance, damage and inundation of habitable rooms and protects life.

2) Manage the water quality within urban catchments and waterways to protect and enhance environmental values and pose no health risk to the community.

3) Adopt water-sensitive urban design principles and on-site water quality management to achieve relevant water quality objectives.

4) The design of the stormwater network is in accordance with the FNQROC Regional Development Manual – Issue 7 (2017).

4.4.4 Transport network

The desired standard of service for the trunk road network is to:

1) provide a functional urban road hierarchy that supports settlement patterns, commercial and economic activities, and freight movement.

2) provide safe and convenient bus stops.

3) provide safe and convenient bikeways and pathways.

4) design the trunk road network to comply with:

    a) Council's standard drawings and specifications

    b) FNQROC Regional Development Manual – Issue 7 (2017).

    c) Austroads guidelines

    d) Manual of Uniform Traffic Control Devices

    e) Department of Transport and Main Roads' Road Planning and Design Manual

4.4.5 Public parks and land for community facilities network

The desired standard of service for the trunk public parks and land for community facilities network is to provide trunk parks and land for community facilities that provide for the full range of recreational and sporting activities and pursuits.

Public parks and land for community facilities are to be of an appropriate size, configuration and slope and have an acceptable level of flood immunity. Public parks are to contain a range of embellishments to complement the type and purpose of the park.

The key desired standards of service used to plan the public parks and land for community facilities network are summarised in Table 79 — criteria for public parks and land for community facilities.

Table 7 — Design criteria for public parks and land for community facilities

Column 1 Park type	Column 2 Rate of provision (Ha/1000 EP)	Column 3 Accessibility	Column 4 Minimum size	Column 5 Flood immunity	Column 6 Maximum grade
Recreation – Local	1.0	500m	0.5ha	New buildings and hard standing areas are above the 1% annual exceedance probability level for flooding.	1:20 for main use area; and 1:6 for remainder.
Recreation – District	1.0	10-15 minute drive	2ha		1:20 for main use area; and 1:50 for kick about area; and no maximum slope specified for all other areas.
Recreation - Metropolitan	0.5	10-20 minute drive	5ha		
Sport - District	1.0	10-15 minute drive	5ha	1:50 for all playing surfaces	fields/courts are above the 2% annual exceedance probability level for flooding.
Sport - Metropolitan	0.5	10-20 minute drive	5ha		
Land for community facilities	Co-location with existing parks, services and facilities is preferred.				

The minimum level of embellishment for trunk parks is detailed in Table 810 — Minimum level of embellishment of trunk parks.

Table 8 — Minimum level of embellishment of trunk parks

Column 1 Embellishment type	Column 2 Park type				
	Recreation – Local	Recreation – District	Recreation – Metro	Sports - District	Sports - Metro
Parking		✓	✓	✓	✓
Fencing/bollards	✓	✓	✓	✓	✓
Lighting		✓	✓	✓	✓
Toilet		✓	✓	✓	✓
BBQ		✓	✓		

Column 1 Embellishment type	Column 2 Park type				
	Recreation – Local	Recreation – District	Recreation – Metro	Sports - District	Sports - Metro
Paths (pedestrian/cycle)		✓	✓	✓	✓
Seating	✓	✓	✓	✓	✓
Shade structures	✓	✓	✓		
Table	✓	✓	✓		
Tap/bubbler	✓	✓	✓	✓	✓
Playgrounds	✓	✓	✓		
Landscaping (incl. earthworks, irrigation and revegetation)	✓	✓	✓	✓	✓
Youth facility – informal active facilities	✓	✓			

4.5 Plans for trunk infrastructure

(1) The plans for trunk infrastructure identify the trunk infrastructure networks intended to service the existing and assumed future urban development at the desired standard of service up to 2031.

4.5.1 Plans for trunk infrastructure maps

(1) The existing and future trunk infrastructure networks are shown on the following maps in Schedule 3 — Local government infrastructure plan mapping and tables:

(a) Local Government Infrastructure Plan Map LGIP - 02 - Plan for trunk stormwater infrastructure

(b) Local Government Infrastructure Plan Map LGIP - 03 - Plan for trunk stormwater infrastructure

(c) Local Government Infrastructure Plan Map LGIP- 04 - Plan for trunk stormwater infrastructure

(d) Local Government Infrastructure Plan Map LGIP- 05 - Plan for trunk transport infrastructure

(e) Local Government Infrastructure Plan Map LGIP - 06 - Plan for trunk parks and land for community facilities infrastructure

(2) The State infrastructure forming part of transport trunk infrastructure network has been identified using information provided by the relevant State infrastructure supplier.

4.5.2 Schedules of works

(1) Details of the existing and future trunk infrastructure networks are identified in the electronic Excel schedule of works model which can be viewed here: www.cassowary.qld.gov.au

(2) The future trunk infrastructure is identified in the following tables in Schedule 3 — Local government infrastructure plan mapping and tables:

(a) for the water supply network, Table 1921 — Water supply network schedule of works

(b) for the sewerage network, Table 2022 — Sewerage network schedule of works

(c) for the stormwater network, Table 2123 — Stormwater network schedule of works

(d) for the transport network, Table 2224 — Transport network schedule of works

(e) for the parks and land for community facilities network, Table 2325 — Parks and land for community facilities schedule of works

Editors note – Extrinsic material

The below table identifies the documents that assist in the interpretation of the local government infrastructure plan and are extrinsic material under the *Statutory Instruments Act 1992*.

List of extrinsic material

Column 1 **Title of document**	**Column 2** **Date**	**Column 3** **Author**
LGIP Planning Assumptions – Extrinsic material report	August 2018	PIE Solutions
Water Supply – LGIP Extrinsic material report	August 2018	PIE Solutions
Sewer – LGIP Extrinsic material report	August 2018	PIE Solutions
Stormwater – LGIP Extrinsic material report	August 2018	PIE Solutions
Transport – LGIP Extrinsic material report	August 2018	PIE Solutions
Parks and land for community facilities – LGIP Extrinsic material report	August 2018	PIE Solutions

Schedule 1 –Definitions

Column 1 Term	Column 2 Definition
N/A	No definitions additional to those included within Schedule 1 of the Planning Scheme are contemplated by the LGIP.

Schedule 3 – Local government infrastructure plan mapping and tables

SC3.1 Planning assumption tables

Table 9 — Existing and projected population

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected population				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell (inside PIA)	Attached	181	179	178	177	909
	Detached	1,156	1,143	1,189	1,180	1,478
	Other	0	0	0	0	0
	Total	**1,337**	**1,322**	**1,367**	**1,357**	**2,387**
Innisfail (inside PIA)	Attached	1,420	1,417	1,406	1,476	4,027
	Detached	6,404	7,030	7,203	7,461	8,173
	Other	62	61	60	60	60
	Total	**7,886**	**8,507**	**8,669**	**8,997**	**12,260**
North Mission Beach (inside PIA)	Attached	101	117	168	167	659
	Detached	740	730	725	719	1,531
	Other	2	2	2	2	2
	Total	**843**	**849**	**895**	**888**	**2192**
Tully (inside PIA)	Attached	285	289	287	285	1,357
	Detached	1,776	1,757	1,745	1,732	2,214
	Other	0	0	0	0	0
	Total	**2,061**	**2,046**	**2,032**	**2,017**	**3,571**
Wongaling and South Mission Beach (inside PIA)	Attached	586	587	601	596	1,594
	Detached	2,125	2,131	2,181	2,200	3,483
	Other	0	0	0	0	60
	Total	**2,711**	**2,718**	**2,782**	**2,796**	**5,137**
Inside priority infrastructure area (total)	Attached	2,573	2,589	2,640	2,701	8,546
	Detached	12,201	12,791	13,043	13,292	16,879

	Other	64	63	62	62	122
	Total	**14,838**	**15,442**	**15,745**	**16,055**	**25,547**
Outside priority infrastructure area (total)	Attached	512	639	666	759	1,351
	Detached	13,617	13,706	13,754	14,180	19,600
	Other	299	298	296	294	290
	Total	**14,428**	**14,643**	**14,716**	**15,233**	**21,241**
Cassowary Coast Region (total)	Attached	3,085	3,228	3,306	3,460	9,896
	Detached	25,818	26,497	26,798	27,472	36,480
	Other	363	361	358	356	412
	Total	**29,266**	**30,086**	**30,461**	**31,288**	**46,788**

Table 10 — Existing and projected employees

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected employees				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
Innisfail (inside PIA)	Commercial	625	625	629	638	1,138
	Community	260	270	273	280	318
	Education	296	314	316	323	347
	Industry	555	555	566	588	675
	Other	0	0	0	0	0
	Retail	1,411	1,411	1,414	1,419	1,856
	Total	**3,147**	**3,175**	**3,198**	**3,248**	**4,334**
Cardwell (inside PIA)	Commercial	8	8	8	8	149
	Community	146	164	165	167	211
	Education	17	17	17	17	62
	Industry	40	40	40	40	124
	Other	0	0	0	0	0
	Retail	154	154	154	154	331
	Total	**365**	**383**	**384**	**386**	**877**
North Mission Beach (inside PIA)	Commercial	14	14	14	14	205
	Community	21	21	21	22	105
	Education	6	6	6	6	73
	Industry	34	34	34	34	95
	Other	0	0	0	0	0
	Retail	156	165	165	165	517
	Total	**231**	**240**	**240**	**241**	**995**
Tully (inside PIA)	Commercial	118	118	118	118	508
	Community	321	321	327	334	369
	Education	75	75	76	78	92
	Industry	375	378	378	378	567
	Other	0	0	0	0	0
	Retail	565	565	565	565	809
	Total	**1,454**	**1,457**	**1,464**	**1,473**	**2,345**
Wongaling Beach and South Mission Beach (inside PIA)	Commercial	12	12	12	39	324
	Community	29	29	30	35	86

Table 10 — Existing and projected employees

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected employees				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
	Education	31	31	32	33	73
	Industry	1	1	1	1	35
	Other	0	0	0	0	0
	Retail	189	194	192	202	550
	Total	**262**	**267**	**267**	**310**	**1,068**
Inside priority infrastructure area (total)	Commercial	777	777	781	817	2,324
	Community	777	805	816	838	1,089
	Education	425	443	447	457	647
	Industry	1,005	1,008	1,019	1,041	1,496
	Other	0	0	0	0	0
	Retail	2,475	2,489	2,490	2,505	4,063
	Total	**5,459**	**5,522**	**5,553**	**5,658**	**9,619**
Outside priority infrastructure area (total)	Commercial	43	59	68	83	1,011
	Community	871	876	891	914	1,003
	Education	470	473	478	492	667
	Industry	1,051	1,093	1,093	1,093	2,635
	Other	4,554	4,641	4,786	5,043	4,846
	Retail	455	491	531	569	1,482
	Total	**7,444**	**7,633**	**7,847**	**8,194**	**11,644**
Cassowary Coast Region (total)	Commercial	820	836	849	900	3,335
	Community	1,648	1,681	1,707	1,752	2,092
	Education	895	916	925	949	1,314
	Industry	2,056	2,101	2,112	2,134	4,131
	Other	4,554	4,641	4,786	5,043	4,846
	Retail	2,930	2,980	3,021	3,074	5,545
	Total	**12,903**	**13,155**	**13,400**	**13,852**	**21,263**

Table 11 — Planned density and demand generation rate for a trunk infrastructure network

Column 1 Area classification	Column 2 LGIP development type	Column 3 Planned density		Column 4 Demand generation rate for a trunk infrastructure network				
		Non-residential plot ratio	Residential density (dwellings/ dev ha)	Water supply network (EP/dev ha)	Sewerage network (EP/dev ha)	Transport network (vpd/dev ha)	Parks and land for community facilities network (EP)	Stormwater network (imp ha/dev ha)
Residential development								
Township – Residential Choice	Attached dwelling, detached dwelling	0	18	40	40	108	40	0.75
Township - Residential	Attached dwelling, detached dwelling	0	18	40	40	108	40	0.75
Township - Village Residential	Attached dwelling, detached dwelling	0	12	24	24	65	24	0.6
Township – Port Hinchinbrook	Detached dwelling	0	10	24	24	65	24	0.6
Rural Residential	Detached dwelling	0	2	5	5	13	5	0.05
Emerging Community	Attached dwelling, detached dwelling	0	18	40	40	108	40	0.7
Non-residential development and mixed development[1]								
Township - Business Fringe	Retail, Commercial, Industry, Education, Community	0.4	0	36	36	810	0	0.9
Township - Business	Retail, Commercial, Industry, Education, Community	0.4	0	39	39	1,016	0	0.9

[1] **Note –** Mixed development is development that includes residential development and non-residential development.

Table 11 — Planned density and demand generation rate for a trunk infrastructure network

Column 1 Area classification	Column 2 LGIP development type	Column 3 Planned density		Column 4 Demand generation rate for a trunk infrastructure network				
		Non-residential plot ratio	Residential density (dwellings/ dev ha)	Water supply network (EP/dev ha)	Sewerage network (EP/dev ha)	Transport network (vpd/dev ha)	Parks and land for community facilities network (EP)	Stormwater network (imp ha/dev ha)
Township - Central Business	Retail, Commercial, Community	1.0	0	103	103	2,503	0	1
Township - Cardwell Community Purpose	Community, Education	0.25	0	13	13	475	0	0.5
Township - Community Purpose	Community, Education	0.1	0	5	5	190	0	0.5
Township - Industry	Retail, Commercial, Industry	0.4	0	29	29	600	0	0.7
Township - Local Business	Retail, Commercial, Community	0.4	0	45	45	1,384	0	0.9
Township - Recreation	Other	0	0	0	0	0	0	0.1
Township - Tourism	Retail, Commercial, Community, Education	0.425	5	65	65	858	9	0.9
Township - Village Industry	Retail, Commercial, Industry	0.3	0	22	22	450	0	0.7
Environmental Management and Conservation -	Other	0	0	0	0	0	0	0
Major Tourism	Retail, Commercial	As per plan of development						
Rural	Other	0	0	0	0	0	0	0
Special Purpose	Other	As per plan of development						

Table 12 — Existing and projected residential dwellings

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected dwellings				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell (inside PIA)	Attached	106	106	106	106	549
	Detached	484	484	507	507	639
	Other	0	0	0	0	0
	Total	**590**	**590**	**613**	**613**	**1188**
Innisfail (inside PIA)	Attached	831	838	838	886	2,433
	Detached	2,682	2,976	3,072	3,205	3,534
	Other	36	36	36	36	36
	Total	**3,549**	**3,850**	**3,946**	**4,127**	**6,003**
North Mission Beach (inside PIA)	Attached	59	69	100	100	398
	Detached	310	309	309	309	662
	Other	1	1	1	1	1
	Total	**370**	**379**	**410**	**410**	**1061**
Tully (inside PIA)	Attached	167	171	171	171	820
	Detached	744	744	744	744	957
	Other	0	0	0	0	0
	Total	**911**	**915**	**915**	**915**	**1777**
Wongaling Beach and South Mission Beach (inside PIA)	Attached	343	347	358	358	963
	Detached	890	902	930	945	1,506
	Other	0	0	0	0	36
	Total	**1233**	**1249**	**1288**	**1303**	**2505**
Inside priority infrastructure area (total)	Attached	1506	1531	1573	1621	5163
	Detached	5,110	5,415	5,562	5,710	7,298
	Other	37	37	37	37	73
	Total	**6,653**	**6,983**	**7,172**	**7,368**	**12,534**

Outside priority infrastructure area (total)	Attached	299	378	397	455	816
	Detached	5,703	5,803	5,866	6,092	8,475
	Other	175	176	176	176	175
	Total	**6177**	**6357**	**6439**	**6723**	**9466**
Cassowary Coast Region (total)	Attached	1805	1909	1970	2076	5979
	Detached	10813	11218	11428	11802	15773
	Other	212	213	213	213	248
	Total	**12830**	**13340**	**13611**	**14091**	**22000**

Table 13 — Existing and projected non-residential floor space

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected non-residential floor space (m² GFA)				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell (inside PIA)	Commercial	325	325	325	325	5,973
	Community	12,284	13,856	13,968	14,139	17,668
	Education	1,010	1,010	1,022	1,049	3,569
	Industry	4,331	4,331	4,331	4,331	13,692
	Other	0	0	0	0	0
	Retail	12,818	12,818	12,818	12,818	30,407
	Total	**30,768**	**32,340**	**32,464**	**32,662**	**71,309**
Innisfail town (inside PIA)	Commercial	21,886	21,886	22,032	22,327	39,823
	Community	21,278	22,050	22,375	22,876	25,968
	Education	21,316	22,644	22,823	23,235	24,674
	Industry	61,087	61,087	62,257	64,618	74,232
	Other	0	0	0	0	0
	Retail	103,708	103,708	103,854	104,149	134,360
	Total	**229,275**	**231,375**	**233,341**	**237,205**	**299,057**
North Mission Beach (inside PIA)	Commercial	565	565	565	565	8,211
	Community	1,688	1,689	1,716	1,758	8,404
	Education	283	283	286	294	3,641
	Industry	3,691	3,691	3,691	3,691	10,439
	Other	0	0	0	0	0
	Retail	16,532	17,024	17,024	17,024	54,560
	Total	**22,759**	**23,252**	**23,282**	**23,332**	**85,255**
Tully town (inside PIA)	Commercial	4,721	4,721	4,721	4,721	20,339
	Community purpose	24,357	24,379	24,766	25,360	28,027
	Education	4,950	4,950	5,008	5,142	6,050
	Industry	41,298	41,620	41,620	41,620	62,375
	Other	0	0	0	0	0
	Retail	43,748	43,814	43,814	43,814	60,637
	Total	**119,074**	**119,484**	**119,929**	**120,657**	**177,428**
Wongaling & South Mission Beach (inside PIA)	Commercial	487	487	487	1,577	12,973
	Community purpose	2,425	2,427	2,465	2,885	6,893

Table 13 — Existing and projected non-residential floor space

Column 1 Projection area	Column 2 LGIP development type	Column 3 Existing and projected non-residential floor space (m² GFA)				
		2016	**2021**	**2026**	**2031**	**Ultimate development**
	Education	2,150	2,150	2,176	2,233	4,264
	Industry	69	69	69	69	3,839
	Other	0	0	0	0	0
	Retail	22,920	23,127	23,127	23,707	50,761
	Total	**28,051**	**28,260**	**28,324**	**30,471**	**78,730**
Inside priority infrastructure area (total)	Commercial	27,984	27,984	28,130	29,515	87,319
	Community purpose	62,032	64,401	65,290	67,018	86,960
	Education	29,709	31,037	31,315	31,953	42,198
	Industry	110,476	110,798	111,968	114,329	164,577
	Other	0	0	0	0	0
	Retail	199,726	200,491	200,637	201,512	330,725
	Total	**27,984**	**27,984**	**28,130**	**29,515**	**87,319**
Outside priority infrastructure area (total)	Commercial	1,607	2,229	2,559	3,184	38,158
	Community purpose	64,160	64,530	65,651	67,415	74,439
	Education	34,308	34,604	35,005	35,930	48,580
	Industry	165,699	170,935	170,935	170,935	370,973
	Other	80,927	113,289	113,289	113,289	113,046
	Retail	43,121	45,816	48,456	51,801	128,172
	Total	**1,607**	**2,229**	**2,559**	**3,184**	**38,158**
Cassowary Coast Region (total)	Commercial	29,591	30,213	30,689	32,699	125,477
	Community purpose	126,192	128,931	130,941	134,433	161,399
	Education	64,017	65,641	66,320	67,883	90,778
	Industry	276,175	281,733	282,903	285,264	535,550
	Other	80,927	113,289	113,289	113,289	113,046
	Retail	242,847	246,307	249,093	253,313	458,897
	Total	**819,749**	**866,114**	**873,235**	**886,881**	**1,485,147**

Table 14 — Existing and projected demand for the water supply network

Column 1 **Service catchment[2]**	**Column 2** **Existing and projected demand (EP)**				
	2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell	2,704	2,713	2,753	2,740	2,771
Innisfail	16,520	17,571	17,863	18,450	18,546
Nyleta	4,013	4,020	4,049	4,345	4,353
Tully	9,207	9,239	9,298	9,346	9,727
Total	**32,444**	**33,543**	**33,963**	**34,881**	**35,397**

[2] The service catchments for the water supply network are identified on Local Government Infrastructure Plan Map LGIP 02 (Plan for trunk water supply infrastructure) in Schedule 3 (local government infrastructure mapping and tables).

Table 15 — Existing and projected demand for the sewerage network

Column 1 **Service catchment**[3]	**Column 2** **Existing and projected demand (EP)**				
	2016	**2021**	**2026**	**2031**	**Ultimate development**
Innisfail	9,911	10,542	10,721	11,076	14,911
Tully	7,306	7,313	7,414	7,436	14,126
Total	**17,217**	**17,855**	**18,135**	**18,512**	**29,037**

[3] The service catchments for the sewerage network are identified on Local Government Infrastructure Plan Map LGIP 03 (Plan for trunk sewerage infrastructure) in Schedule 3 (local government infrastructure mapping and tables).

Table 16 — Existing and projected demand for the stormwater network

Column 1 **Service catchment[4]**	**Column 2** **Existing and projected demand (imp m²)**				
	2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell	707,258	709,993	709,993	709,993	1,233,271
Innisfail	2,771,935	2,849,963	2,873,963	2,926,413	4,124,540
North Mission Beach	415,999	418,716	418,716	418,716	1,275,343
Tully	1,187,005	1,188,242	1,188,242	1,188,242	2,089,373
Wongaling Beach and South Mission Beach	887,634	897,465	920,284	932,246	2,151,068
Total	**5,969,831**	**6,064,379**	**6,111,198**	**6,175,610**	**10,873,595**

[4] The service catchments for the stormwater network are identified on Local Government Infrastructure Plan Map LGIP 04 (Plan for trunk stormwater infrastructure) in Schedule 3 (local government infrastructure mapping and tables).

Table 17 — Existing and projected demand for the transport network

Column 1 **Service catchment**[5]	**Column 2** **Existing and projected demand (VTEPD)**				
	2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell (inside PIA)	8,811	8,853	9,017	9,041	18,929
Innisfail (inside PIA)	67,797	70,081	70,981	72,603	94,864
North Mission Beach (inside PIA)	6,585	6,817	6,951	6,959	22,326
Tully (inside PIA)	26,211	26,282	26,339	26,439	40,926
Wongaling Beach and South Mission Beach (inside PIA)	12,343	12,521	12,758	13,295	30,159
Outside PIA	83,295	87,453	89,240	92,212	162,987
Total	**205,042**	**212,007**	**215,286**	**220,549**	**370,191**

[5] The service catchments for the transport network are identified on Local Government Infrastructure Plan Map LGIP 05 (Plan for trunk transport infrastructure) in Schedule 3 (local government infrastructure mapping and tables).

Table 18 — Existing and projected demand for the parks and land for community facilities network

Column 1 **Service catchment[6]**	**Column 2** **Existing and projected demand (EP)**				
	2016	**2021**	**2026**	**2031**	**Ultimate development**
Cardwell	1,337	1,322	1,367	1,357	2,387
Innisfail	7,886	8,508	8,669	8,996	12,262
North Mission Beach	843	849	895	888	2,192
Tully	2,061	2,046	2,032	2,017	3,571
Wongaling and South Mission Beach	2,711	2,718	2,782	2,796	5,137
Total	**14,838**	**15,443**	**15,745**	**16,054**	**25,549**

[6] The service catchments for the parks and land for community facilities network are identified on Local Government Infrastructure Plan Map LGIP 06 (Plan for trunk parks and land for community facilities infrastructure) in Schedule 3 (local government infrastructure mapping and tables).

SC3.2 Schedules of works

Table 19 — Water supply network schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[7]
WS_P_1	Bore - Cardwell	2017	$432,000
WS_P_2	Chlorinator - Cardwell	2017	$340,167
WS_P_3	Reservoir - Tully	2017	$3,784,750
WS_P_4	Intake Bed - Tully	2017	$916,000
WS_P_5	Inline-Filters - Tully	2018	$443,000
WS_P_6	Chlorinator - Tully	2018	$340,000
WS_P_7	Reservoir - Tully	2019	$3,776,600
WS_P_8	Chlorinator - Tully	2019	$340,167
WS_P_9	Reservoir - Tully	2019	$2,000,000
WS_P_10	Inline-Filters - Tully	2019	$442,833
WS_P_11	Reservoir - Tully	2021	$3,776,600
WS_P_12	Reservoir - Cardwell	2021	$2,000,000
WS_L_1	Water main - Tully	2017	$378,809
WS_L_2	Water main - Tully	2017	$70,491
WS_L_4	Water main - Tully	2017	$65,000
WS_L_5	Water main - Tully	2018	$891,400
WS_L_6	Water main - Tully	2018	$1,130,000
WS_L_7	Water main - Tully	2016	$601,644
WS_L_8	Water main - Tully	2019	$475,000
WS_L_9	Water main - Tully	2019	$303,000
WS_L_10	Water main - Tully	2018	$606,000
WS_L_11	Water main - Tully	2020	$1,010,000
WS_L_12	Water main - Innisfail	2017	$479,996
WS_L_13	Water main - Innisfail	2023	$5,395,000
WS_L_14	Water main – Nyleta	2023	$2,313,000
WS_L_15	Water main – Cardwell	2019	$485,000
TOTAL			**$32,796,457**

Table 20 — Sewerage network schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[8]
WW_P_1	Dosing Station - Tully	2019	$70,000
WW_P_2	Dosing Station - Tully	2019	$70,000

[7] The establishment cost is expressed in current cost terms as at the base date.
[8] The establishment cost is expressed in current cost terms as at the base date.

Table 20 — Sewerage network schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[8]
WW_P_3	Clarifier - Tully	2020	$1,600,000
WW_P_4	Emergency Storage Lagoon - Tully	2017	$312,000
WW_P_5	Inlet Works Upgrade - Tully	2019	$150,000
WW_L_1	Gravity sewer - Tully	2020	$175,000
WW_L_2	Gravity sewer - Tully	2017	$73,000
WW_P_6	Dosing Station – Innisfail	2019	$70,000
TOTAL			**$2,520,000**

Table 21 — Stormwater network schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[9]
SW_L_1	Stormwater pipe	2021	$1,090,866
SW_L_2	Stormwater pipe	2023	$85,000
SW_L_3	Stormwater pipe	2022	$2,000,000
TOTAL			**$3,175,866**

Table 22 — Transport network schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[10]
TR_L_1	Road upgrade	2021	$2,350,260
TR_L_2	Road upgrade	2023	$800,000
TOTAL			**$3,150,260**

[9] The establishment cost is expressed in current cost terms as at the base date.
[10] The establishment cost is expressed in current cost terms as at the base date.

Table 23 — Parks and land for community facilities schedule of works

Column 1 Map reference	Column 2 Trunk infrastructure	Column 3 Estimated timing	Column 4 Establishment cost[11]
N/A	N/A	N/A	N/A
TOTAL			**N/A**

[11] The establishment cost is expressed in current cost terms as at the base date.

SC3.2 Local government infrastructure plan maps

Local Government Infrastructure Plan Map LGIP 01 Priority infrastructure area and projection areas map

Local Government Infrastructure Plan Map LGIP 02 Plan for trunk water supply infrastructure

Local Government Infrastructure Plan Map LGIP 03 Plan for trunk sewerage infrastructure

Local Government Infrastructure Plan Map LGIP 04 Plan for trunk stormwater infrastructure

Local Government Infrastructure Plan Map LGIP 05 Plan for trunk transport infrastructure

Local Government Infrastructure Plan Map LGIP 06 Plan for trunk parks and land for community facilities infrastructure