

INFRASTRUCTURE COMMITTEE MEETING

AGENDA

2 JULY 2014

Your attendance is required at a meeting of the Infrastructure Committee to be held in the Council Chambers, 232 Bolsover Street, Rockhampton on 2 July 2014 commencing at 3.00pm for transaction of the enclosed business.

CHIEF EXECUTIVE OFFICER

25 June 2014

Next Meeting Date: 06.08.14

Please note:

In accordance with the *Local Government Regulation 2012*, please be advised that all discussion held during the meeting is recorded for the purpose of verifying the minutes. This will include any discussion involving a Councillor, staff member or a member of the public.

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1 OPENING

2 PRESENT

Members Present:

The Mayor, Councillor M F Strelow Councillor N K Fisher Councillor S J Schwarten Councillor C E Smith

In Attendance:

Mr E Pardon – Chief Executive Officer Mr R Holmes – General Manager Regional Services

3 APOLOGIES AND LEAVE OF ABSENCE

Councillor Tony Williams - Leave of Absence from 30 June 2014 to 18 July 2014 Councillor Greg Belz - Leave of Absence from 30 June 2014 to 8 August 2014

4 CONFIRMATION OF MINUTES

Minutes of the Infrastructure Committee held 4 June 2014

5 DECLARATIONS OF INTEREST IN MATTERS ON THE AGENDA

6 BUSINESS OUTSTANDING

6.1 BUSINESS OUTSTANDING TABLE FOR INFRASTRUCTURE COMMITTEE

File No: 10097

Attachments: 1. Business Outstanding Table for

Infrastructure Committee Meeting

Responsible Officer: Evan Pardon - Chief Executive Officer

Author: Evan Pardon - Chief Executive Officer

SUMMARY

The Business Outstanding table is used as a tool to monitor outstanding items resolved at previous Council or Committee Meetings. The current Business Outstanding table for the Infrastructure Committee is presented for Councillors' information.

OFFICER'S RECOMMENDATION

THAT the Business Outstanding Table for the Infrastructure Committee be received.

BUSINESS OUTSTANDING TABLE FOR INFRASTRUCTURE COMMITTEE

Business Outstanding Table for Infrastructure Committee Meeting

Meeting Date: 2 July 2014

Attachment No: 1

Date	Report Title	Resolution	Responsible Officer	Due Date	Notes
06 March 2013	Cooper Street Rail Bridge	THAT Council make contact with the adjoining property owners to seek their support and assistance in having the road reserve closed adjacent to the bridge and that Queensland Rail be advised accordingly.		20/03/2013	Teys have contacted Council to clarify contents of follow up letter and have advised that they will provide a response in due course.
08 May 2013		THAT the matter of proposed traffic and parking changes in Vallis Street, North Rockhampton lay on the table pending community consultation and return to the Infrastructure Committee Meeting in July 2013.		01/02/2014	No response from IGA Management to date.
30 April 2014	Lawrie Street Footpath Condition	THAT the renewal of the footpath in Lawrie Street, Gracemere be placed in the future works program for consideration during budget deliberations; THAT the Department of Transport and Main Roads be consulted with regards to impacts on streetscaping plans as a result of the future upgrade planning for Lawrie Street between the Capricorn Highway and Ranger Street.		21/05/2014	

7 PUBLIC FORUMS/DEPUTATIONS

Nil

8 OFFICERS' REPORTS

8.1 ROAD SAFETY AUDIT OF STEWART STREET AND MIDDLE ROAD-MACQUARIE STREET INTERSECTION

File No: 9718

Attachments: 1. Road Safety Audit Report and Speed Limit

Review

Authorising Officer: Martin Crow - Manager Engineering Services

Robert Holmes - General Manager Regional Services

Author: Angus Russell - Coordinator Strategic Infrastructure

SUMMARY

In October 2013, a road safety audit of the intersection of Middle Road and Macquarie Street and the full length of Stewart Street was completed to address several safety concerns raised by members of the community. This report presents the findings and recommends priority actions from this road safety audit.

OFFICER'S RECOMMENDATION

- THAT the Road Safety Audit be received by Council.
- 2. THAT the following be implemented to address the Priority A recommendations of the audit report.
 - Reinforce intersection priority at Middle Road and Macquarie Street through the construction of medians on Macquarie Street legs during the reconstruction of Middle Road.
 - b) Leave the major road/minor road priority control at the Middle Road and Macquarie Street intersection under its current configuration.
 - c) Regularly maintain vegetation around the Middle Road and Macquarie Street intersection, specifically on the Middle Road legs to increase driver's sight distance on approach to the intersection.
 - d) Widen the shoulder of the northbound lane on Stewart Street at Middle Road to allow vehicles travelling northbound to pass a vehicle that is turning right into or has turned right out of Middle Road.
 - e) Install an advisory 60km/hr sign (W8-2) underneath the Side Road Intersection (W2-4 R) sign on the Stewart Street approach to Middle Road.
 - f) Review the slope of the batter at the southern end of Stewart Street and if table drain has a slope of 1:4 or greater then remove any vegetation within the clear zone.
- 3. THAT the Priority B and C recommendations be corrected through Council's regular maintenance and signage program for implementation when funds permit.

COMMENTARY

The Road Safety Audit performed was an existing stage audit, where auditors review an existing section of road, by conducting two site investigations (day and night). Both inspections were conducted on 19 August 2013. The audit team, led by Mr Jeff Van Nunen, Senior Road Safety Designer, from the Department of Transport and Main Roads, consisted of two officers from the Department of Transport and Main Roads Road Safety section and two Council Officers from the Strategic Infrastructure unit

A total of twenty three (23) issues were identified as a part of the audit and each issue was categorised by a level of risk before a possible treatment was specified. The following table shows the risk ranking, associated level of risk and treatment approach. The Road Safety Audit report detailing all of the identified issues is attached to this report.

Risk Ranking Level of Risk		Level of Risk	Treatment Approach	
AA Intolerable Must be corrected.		Intolerable	Must be corrected.	
	А	High	Should be corrected or the risk significantly reduced even if the cost is high.	
			Should be corrected or the risk significantly reduced if the treatment cost is moderate, but not high.	
	С	Low	Should be corrected or the risk reduced if the treatment cost is low.	

AUSTROADS (2009) Risk Ranking and Treatment Approach

The report did not find any "AA" rated issues however 4 "A" rated issues, 4 "B" rated issues and 15 "C" rated issues were identified. The "B" and "C" rated issues can be corrected through Council's regular maintenance and signage program and are not addressed further in this report. These issues will be forwarded to Civil Operations for staged implementation when funds are available.

The "A" rated issues, their proposed treatments and Council officer's recommended treatments are addressed in this report.

Middle Road and Macquarie Street Intersection

<u>Issue A1</u>: The approaches to the Middle Road and Macquarie Street intersection make it difficult to distinguish the difference between major and minor roads. Despite having STOP signage on Macquarie Street (minor leg), there have been a number of crashes caused by a failure to give way. Traffic volumes on Middle Road and Macquarie Street are comparable and the layout of the intersection creates a driver perception that the Macquarie Street is the major road.

The audit proposed treatment to reinforce the intersection priority with the construction of medians on the minor leg. On the southern leg of Macquarie Street a raised median could be used and on the northern leg a painted median could be used to allow articulated vehicles to track the intersection. The option of changing the priority to make Macquarie Street the major road was considered, however as Middle Road is the major road at all intersections, from Johnson Road to Stewart Street, there may be an issue with driver compliance. This problem is exacerbated by the low volumes on both roads.

<u>Recommended Treatment</u>: Council officers agree with the proposed treatment to construct medians on the Macquarie Street legs. This work can be included in the Middle Road reconstruction project (from Capricorn Street to Macquarie Street) of which \$2,000,000 is budgeted for in 2014-2015 year in the draft budget.

Council officers support the recommendation to leave Middle Road as the major road at the intersection with Macquarie Street. Traffic volumes on Middle Road and Macquarie Street legs are all within the range of 18-38 vehicles in the AM and PM peak hours. Neither road has significantly greater volumes than the other and, as the volumes on each leg of the intersection are low, there isn't a noticeable presence of traffic on each leg to remind drivers of the priority at the intersection.

There are several intersections along Middle Road that are similar in nature to Middle Road and Macquarie Street in both configuration and traffic volumes. It is believed that a change in priority at this intersection would increase the risk of accident at this intersection as there would be a change in road priority without any noticeable change in road environment. Furthermore a change in intersection priority to make Macquarie Street the major road would encourage heavy vehicles travelling south to use Macquarie Street and the Gracemere urban residential area as a passage to the south rather than Johnson Road and Gavial Gracemere Road.

<u>Issue A2</u>: The sight distance on the Macquarie Street legs is restricted by overgrown vegetation around the intersection.

The proposed treatment is to regularly maintain vegetation around the intersection, specifically on the Middle Road legs. The removal of a flea tree on the south western leg of the intersection may be required.

<u>Recommended Treatment</u>: Council officers agree with the proposed treatment and a works order to trim the grass and vegetation around the intersection has been raised to mitigate this safety issue.

Stewart Street (from Boongary Road to Somerset Road)

<u>Issue A10</u>: The intersection of Stewart Street and Middle Road has insufficient Safe Intersection Sight Distance (SISD) for the current intersection configuration and posted speed limit. The required SISD for the current speed environment (80km/hr posted speed) is 214m (AUSTROADS, AGRD04A) and the intersection can only achieve 150m.

The road safety audit gave three treatment options for this particular safety issue.

Option 1: Widen the shoulder of the northbound lane on Stewart Street to allow vehicles travelling northbound to pass a vehicle that is turning right into or has turned right out of Middle Road. This would involve widening the lane to provide an Auxiliary Right Turn (AUR) on Stewart Street.

Option 2: An advisory 60km/hr sign (W8-2) could be installed underneath the Side Road Intersection (W2-4 R) sign. This could lower the speed at the intersection and decrease the required SISD to 151m making the speed acceptable for the available SISD. A likely outcome is that the combined advisory speed sign (W8-2) and the side road intersection sign (W2-4R) could make drivers more alert of the approaching intersection.

Option 3: Reduce the speed limit on Stewart Street to provide the appropriate SISD. An SISD of 151m is acceptable in a 60km/hr posted speed environment. An analysis of the speed limit along Stewart Street was performed using Q-Limits speed review software. The prevailing speed of vehicles, along with the number of accesses along Stewart Street warranted a speed limit of 80km/hr. The Q-Limits speed limit review is also attached to this report.

Recommended Treatment: Council Officers have reviewed the possible treatments and have recommended that a combination of Options 1 and 2 be implemented. A road widening at this intersection will allow vehicles travelling north along Stewart Street to pass a vehicle turning right into Middle Road or similarly a vehicle turning right from Middle Road into Stewart Street. This will reduce the chance of conflict between vehicles at this intersection. In addition to this treatment, an advisory 60km/hr sign will inform drivers of the desired speed through the approaching intersection.

A change in speed limit was not considered necessary due to the speed limit analysis performed in Q-Limits. Q-Limits arrived with a posted speed limit of 80km/hr for Stewart Street due to its rural nature and long straight alignment. A copy of the speed limit review is attached to the Road Safety Audit. Of the two traffic counts performed in September 2013, the 85th percentile speeds (the speed at which 85% of vehicles are travelling) were 77km/hr and 73km/hr which indicates current compliance with the posted speed limit of 80km/hr. The percentage of vehicles exceeding 80km/hr was 11% in one location and 7% in the other. In comparison with the traffic counts performed in March 2013 at these same locations, there has been a decrease in speed.

Council officers believe that a decrease in posted speed limit to 60km/hr will not see a change in driver behavior and vehicles will continue to travel 80km/hr along this street. The reason for this is that there has been no change to the function of the road or speed environment. If drivers cannot see a change in conditions they will continue to travel at the same speed as before, despite a change in posted speed. An existing example of this is Middle Road in Gracemere; the speed limit from Macquarie Street to Stewart Street was decreased from 80km/hr to 60km/hr in 2009.

The speed limit was decreased to slow vehicles, even though no change to the function of the road or road environment had occurred. Despite regular police enforcement, the 85% percentile speed along Middle Road is 81km/hr. This indicates no change from the original 80km/hr posted speed limit.

If the speed limit on Stewart Street were to be decreased to 60km/hr it is unlikely that it would receive regular police enforcement due to its rural nature and its low Average Annual Daily Traffic (AADT) of between 160 and 250 vehicles per day (Sept 2013).

<u>Issue A11</u>: There are several trees that may be located within the clear zone on Stewart Street. For an 80km/hr speed environment the clear zone width should be 5m for a 1:4 batter. The batter on the table drain at the Southern End of Stewart Street seemed steeper than 1:4 however it was difficult to be sure due to vegetation growth in the drain.

The proposed treatment is to review the slope of the batter at the southern end of Stewart Street and if table drain has a slope of 1:4 or greater then remove any vegetation within the clear zone.

<u>Recommended Treatment</u>: Council officers agree with the proposed treatment and will refer this matter to the Design Services team for review. If necessary the appropriate vegetation clearing will be implemented.

BACKGROUND

After presenting a report to Council in May 2013 regarding the Gracemere Industrial Area Traffic Survey, a resolution to further investigate the speed limit on Stewart Street and the configuration of stop signs on the intersection of Middle Road and Macquarie Street was made. This investigation was subsequently undertaken through the process of a road safety audit. This audit method has provided a review, led by an independent third party, to highlight possible safety risks throughout the audit area.

The Road Safety Audit was conducted in accordance with the procedures set out in the Austroads Guide to Road Safety, Part 6: Road Safety Audit. The auditor cannot guarantee that every issue that affects road user safety has been identified. Although the adoption of the audit recommendations will improve the level of safety of the site it will not, however eliminate all the road user safety risks.

Road Safety Audits are a formal process and the audit findings and recommendations should be responded to by the client (Council) in writing. If recommendations are not accepted by the client then reasons should be included within the written response. A client is under no obligation to accept all the audit findings and recommendations and should consider these in conjunction with all other project considerations. Council is not limited to the proposed treatments in the audit and can provide additional treatments to address a safety issue. It is not the role of the auditor to approve the client's response to an audit.

The process of the associated speed limit review utilises a state wide approach, defined in the Department of Transport and Main Roads Manual of Uniform Traffic Control Devices. This process looks at the road function, prevailing speed limit, and the QLIMITS recommended speed limit. The QLIMITS speed limit assesses the physical attributes, the road geometry and the crash data along the nominated stretch of road. If a correlation exists between the road function, prevailing speed and Q-Limits speed, then the correlating speed becomes the recommended speed limit.

PREVIOUS DECISIONS

In response to a Council Report in relation to the proposed Major Amendment of the Fitzroy Planning Scheme 2005 on 13 November 2012, Council requested a traffic assessment of the area bounded by Somerset Road, Capricorn Street, Middle Road, and Stewart Street.

The requested report was made to the Council Meeting on 12 February 2013 and recommended adoption of speed limits and multi-combination vehicle route. At that time Council resolved that the matter lay on the table until the April Council Meeting pending constructive input from residents, business people and other stakeholders.

A Gracemere Industrial Area Truck and Heavy Vehicle Survey was subsequently undertaken and the results were presented to a Council workshop on 29 April 2013 for discussion.

On 14 May 2013, another report was issued to Council providing options and recommending responses to the Gracemere Industrial Area Truck and Heavy Vehicle Survey findings, including the adoption of multi-combination vehicle routes and speed limits and associated traffic management treatments. As a result of this report, the multi-combination vehicle route and proposed speed limits (with the exception of Stewart Street) were adopted.

Council also resolved that two additional reports would be presented to Council; one reviewing potential safety issues in Stewart Street and the Stop signs at Middle Road and Macquarie Street, and the other report presenting the results of consultation with property owners regarding Local Area Traffic Management devices. This report is the first of the two, addressing the possible safety issues with Stewart Street and the intersection of Middle Road and Macquarie Street.

BUDGET IMPLICATIONS

The majority of recommendations that arise from the Road Safety Audit can be accommodated within existing maintenance and signage budgets. The recommendation for medians at the intersection of Middle and Macquarie Street will require capital funding, but could be addressed within the project scope for the reconstruction of Middle Road from Capricorn Street to Macquarie Street. This project is in the draft 2014-15 budget for construction of Stage 1 in 2014-2015 (\$2,000,000) and Stage 2 in 2015-2016 (\$2,200,000)

The widening of Stewart Street, at the intersection of Middle Road, will require capital funding from Council. The estimated cost is \$32,000. In 2006 as a part of the Granite Subdivision, encompassing Latimer Avenue and Hewill Drive, a contribution was taken by Fitzroy Shire Council from the developer for widening works at the intersections of Latimer Avenue and Stewart Street, and Middle Road and Stewart Street. This contribution was not spent and may now be able to contribute towards these widening works at Stewart Street and Middle Road.

The remaining "B" and "C" rated issues can be corrected through Council's regular maintenance and signage program. These issues will be forwarded to Civil Operations for staged implementation when funds are available.

LEGAL IMPLICATIONS

There are no known legal implications arising from this report. There is a potential for liability if a safety issue identified in the audit is not addressed and an incident occurs.

Council have a duty of care to provide a safe road system for all road users. A road authority which has a road condition which has developed without any action on the part of the authority, such as a pothole, aggregate on the road, or a deteriorating shoulder will not be held liable if the condition causes or contributes to an injury suffered by a road user. If however the road authority knows of the condition, through a customer request or a road safety audit, then a duty of care is owed.

A response to the issues identified in the road safety audit is required as a record of the client (Councils) decision to remedy the safety issues through the proposed treatment or other identified treatment. The endorsement of this report serves as this response to the road safety audit. Current legislation recognises the multiple responsibilities and limited funds of the road authority and extends a level of protection to road authorities when considering prioritisation of tasks and when deciding which projects to undertake.

RISK ASSESSMENT

There is a risk that any one of the safety issues identified in the audit could cause an incident. If not treated, Council could be liable for damages. The proposed treatments reduce the risk of any future incidents by making the road and road reserve safer for all road users. The issues identified in the report have already been assessed based on a level of risk and prioritised accordingly.

CORPORATE/OPERATIONAL PLAN

Council's key economic outcomes include—

- Effective Infrastructure Management A community with sufficient, appropriate, cost effective resources, to deliver ongoing growth to the Region to meet community needs and aspirations; and,
- Regional Development Increased investment in the Region, through the attraction of new and diverse industry and the creation of long-term employment opportunities.

CONCLUSION

Development of the Gracemere Industrial Area has been identified as a Council priority for some time and significant investment has already been made in infrastructure to support development. Traffic issues have however been raised by residents in adjacent areas and the road safety audit and this report form part of a wider response to those issues.

An independently led audit team has conducted a road safety audit to ensure that infrastructure in the subject area is safe for all road users. Council officers have acknowledged the road safety issues identified in the audit, reviewed the audit's proposed treatments and recommended appropriate treatments for each identified safety issue. The recommendations are now presented to Council for consideration and adoption, prior to implementation.

ROAD SAFETY AUDIT OF STEWART STREET AND MIDDLE ROAD-MACQUARIE STREET INTERSECTION

Road Safety Audit Report and Speed Limit Review

Meeting Date: 2 July 2014

Attachment No: 1

Road Safety Audit
Rockhampton Regional Council
Gracemere Industrial Area Existing Road Safety Audit Stewart Street, Middle Road/Macquarie Intersection

September 2013

Road Safety Audit

Rockhampton Regional Council
Gracemere Industrial Area
Existing Road Safety Audit
Stewart Street, Middle Road/Macquarie Street Intersection

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Scope

Rockhampton Regional Council's Strategic Infrastructure Department have been commissioned to carry out Existing Road Safety Audit throughout the length of Stewart Street and at the intersection of Middle Road/Macquarie Street.

Audit Team

The audit team consists of:

Jeff Van Nunen, Senior Road Safety Auditor under Department of Transport and Main Roads (Queensland) registration, Senior Designer Road Safety (*DTMR*);

Stuart Harvey, Road Safety Auditor under Department of Transport and Main Roads (Queensland) registration, Traffic Engineer, Strategic Infrastructure (Rockhampton Regional Council);

Ruwan Weerakoon, Senior Infrastructure Planning Engineer (Rockhampton Regional Council);

Kath Ferguson, Program Support Coordinator (DTMR).

Methodology

The methodology adopted for the project includes:

- Examination of relevant design/ construction drawings over the subject section;
- Day and night time site inspection of the subject section on Monday 19 August 2013 (Weather fine):
- Presentation of findings and recommended remedial action in report format (including supporting photographs) and Action Plan spreadsheet (Attachment 2).
- Supporting/ Explanatory documents where necessary (Attachment 3).

Recipients of this report should also be familiar with Chapter 2 (An Explanation of a Road Safety Audit) and Chapter 3 (Legal Issues) of Reference 1.

This Road Safety Audit was conducted in accordance with the procedures set out in the Austroads Guide to Road Safety, Part 6: Road Safety Audit. The auditor cannot guarantee that every issue that affects road user safety has been identified. Although the adoption of the audit recommendations will improve the level of safety of the site it will not, however eliminate all the road user safety risks.

Road Safety Audits are a formal process and the audit findings and recommendations should be responded to by the client in writing. If recommendations are not accepted by the client then reasons should be included within the written response. A client is under no obligation to accept all the audit findings and recommendations and should consider these in conjunction with all other project considerations. It is not the role of the auditor to approve the client's response to an audit.

<u>Summary of Audit Findings and Recommendations</u> The summary below is in order of priority, represented by:

Risk Ranking	Level of Risk	Treatment Approach
AA (Nii)	Intolerable	Must be corrected.
A (4 Issues)	High	Should be corrected or the risk significantly reduced even if the cost is high.
B (4 Issues)	Medium	Should be corrected or the risk significantly reduced if the treatment cost is moderate, but not high.
C (15 Issues)	Low	Should be corrected or the risk reduced if the treatment cost is low.

(Extracted from Reference 1)

Risk Ranking is based on Tables 4.1 to 4.3 of Reference 1. Cost and assessed effectiveness of proposed remedial action are also considered when assigning risk

Orientation: For the purpose of this report, Middle Road is referenced as having an East – West orientation and Macquarie Street has a North – South orientation

Middle Road / Macquarie Street Priority A

A1
The approaches to the intersection make it very difficult to distinguish the difference between major and minor roads.

Despite having STOP signage on the Macquarie Street (minor leg), there have been a significant number of crashes caused by a failure to give way. Volumes on Middle Road and Macquarie Street are comparable and the layout of the intersection creates a driver perception that the Macquarie Street is the major road.





Photo 5: Middle Road (Western Approach)

Photo 43: Macquarie St (Southern Approach)

Recommendation: Reinforce intersection priority with construction of medians on the minor leg. On the southern leg of Macquarie Street a raised median could be used and on the northern leg a painted median could be used to allow heavy vehicles to track the intersection.

The option of changing the priority to make Macquarie Street the major road was considered however as Middle Road is the major road at all intersections from Johnson Road to Stewart Street there may be an issue with driver compliance. This problem is exacerbated by the low volumes on both roads.

The addition of centreline marking on Middle Road may reinforce Middle Road as the major road at the intersection.

A2
The sight distance on the Macquarie Street legs are restricted by overgrown vegetation around the intersection.



Photo 6: Macquarie Street (Northern Leg) Looking West down Middle Road



Photo 7: Macquarie Street (Southern Leg) looking East down Middle Road

Recommendation: Regularly maintain vegetation around the intersection specifically on the Middle road legs. Removal of a flea tree in Photo 7 may be required.

Priority B

The culverts one side of the southern leg of Macquarie Street are not delineated by guideposts. There is no warning of the steep drain and culvert for motorists.



Photo 1: Macquarie Street culvert.

Recommendation: Install guideposts to properly delineate the location of the culvert.

Priority C

There is no Crossroad sign (W2-1) on the east leg of Middle Road. Also the existing Crossroad sign (on the western leg of Middle Road) is not designed to the current MUTCD design standard.

Recommendation: As it is difficult to discern the cross roads, install W2-1 sign on eastern leg of Middle Road to the current MUTCD design standards. Replace existing W2-1 sign with a new MUTCD standard W2-1 Crossroad Sign.

There are no regulatory speed signs (R4-1) on either of the Middle Road approaches.

Recommendation: As drivers may assess the road as faster speed environment then it is, install R4-1 regulatory speed limit signs on both legs of the Middle Road at a sufficient distance from the intersection to MUTCD design standards.

C6
The existing G5-1 signs are incorrect. Since the closure of the Somerset Road crossing, access to the Capricorn Highway cannot be gained from Macquarie Street. Furthermore there is no G5-1 sign for Middle Road.



Photo 7: G5-1 Signs at Middle Road / Macquarie Street intersection

Recommendation: Remove "TO CAPRICORN HIGHWAY" G5-1 sign and install a "MIDDLE ROAD" G5-1 on the existing pole and to MUTCD design standards.

C7
The existing line marking on Macquarie Street is faded and covered in loose gravel.



Photo 3: Existing Line Marking and loose gravel at intersection

Recommendation: Clear gravel from the intersection and reinstate the existing line marking.

Night observations

<u>C8</u>
The Crossroad sign (W2-1) on Middle Road has poor reflectivity.

Recommendation: Replace Crossroad sign (W2-1).

<u>C9</u>
The G5-1 fingerboards for Middle Road and Macquarie Street have poor reflectivity.

Recommendation: Replace G5-1 lingerboards.

Stewart Street Priority A

A10
The Intersection of Stewart Street and Middle Road has insufficient Safe Intersection Sight Distance (SISD) for the current intersection configuration and posted speed limit. The required SISD for the current speed environment (80km/hr posted speed limit) is 214m (AUSTROADS, AGRD04A) and the intersection can only achieve 150m.



Photo 45: Stewart Street / Middle Road Intersection (Middle Road Leg)

Recommendation:

Widen the shoulder of the northbound lane on Stewart Street to allow vehicles travelling northbound to pass a vehicle that has turned right out of Middle Road. This would involve widening the lane to provide an Auxiliary Right Turn (AUR) on Stewart Street.

Alternatively, an advisory 60km/hr sign (W8-2) could be installed underneath the Side Road Intersection (W2-4 R) sign. This could lower the speed at the intersection and decrease the required SISD to 151m making the speed acceptable for the available SISD. A more likely outcome is that the combined advisory speed sign (W8-2) and the side road intersection sign (W2-4R) could make drivers more alert of the approaching intersection.

Option 3:

Reduce the speed limit on Stewart Street to provide the appropriate SISD. An SISD of 151m is acceptable in a 60km/hr speed environment. An analysis of the speed limit

along Stewart Street was performed using Q-Limits speed review software. The prevailing speed of vehicles, along with the number of accesses along Stewart Street warranted a speed limit of 80km/hr. The Q-Limits speed limit review is attached to this

A11
There are several trees that may be located within the clear zone on Stewart Street. For an 80km/hr speed environment the clear zone width should be 5m for a 1:4 batter. The batter on the table drain at the Southern End of Stewart Street seemed steeper than 1:4 however it was difficult to be sure due to vegetation growth in the drain.



Photo 13: Possible vegetation in clear zone at Southern end of Stewart Street.

Recommendation:

Review the slope of the batter at the southern end of Stewart Street and if table drain has a slope of 1:4 or greater then remove any vegetation within the clear zone.

Priority B

Several culverts along Stewart Street are not delineated by guideposts. Culverts at Chainage 740, 820, 910, 1680 and at the intersection of Latimer Avenue and Stewart Street are not properly delineated. There is no warning of the steep drain and culvert for motorists.



Photo 34: Culvert at CH 820



Photo 16: Culvert at CH 1681



Photo 23: Culvert at Latimer Avenue.

Recommendation: Install guideposts to properly delineate the location of the culverts.

B13
Sight distance at the intersection of Stewart Street and Somerset Road is restricted by location of steel mesh fence. Vehicles on Stewart Street wishing to look right along Somerset Road have a restricted view.



Photo 39: Steel Fence on Somerset Road

Recommendation: Trim vegetation in table drain and establish a maintenance regime to ensure the visibility envelope is maintained. Possibly remove some of the panels of fencing If the removal of panels is carried out, further works may be required to ensure a safe passage for pedestrians on Somerset Road.

B14

There is a Flea Tree within the 80km/hr clearzone at the intersection of Middle Road and Stewart Street.



Photo 24: Flea Tree on Stewart Street

Recommendation: Remove Tree

Priority C

C15

There are no Hazard Boards (D4-2-3) on any of the T-Intersections along Stewart Street. Latimer Avenue, Douglas Street and Foster Street have guideposts opposite the minor leg approach rather than the standard Hazard Board (Photo below).



Photo 20: Stewart Street / Latimer Avenue intersection

Recommendation: Install D4-2-3 sign opposite minor leg on Latimer Avenue, Douglas Street and Foster Street intersections as per MUTCD standards.

C16

At the Stewart Street / Middle Road intersection, the driveway access for 253 Middle Road enters the roadway 10m from the hold line at the Middle Road Intersection.



Photo 28: Driveway access onto Middle Road / Stewart Street Intersection

Recommendation: Relocate driveway away from intersection of Middle Rd / Stewart Street.

C17
The existing G5-1 signs at Middle Road, Latimer Avenue, Douglas Street and Foster Street have lettering that is too small for the speed environment. At 80km/hr it is difficult to read the small lettering on the fingerboard signs.



Photo 38: G5-1 Sign at Foster Street / Stewart Street intersection

Recommendation: Install a appropriately sized G5-1 fingerboard street sign with 130mm high lettering on it as per Table 2.1 of Part 5 of the MUTCD.

The existing line marking at the intersections of Middle Rd/Stewart St, Foster Street/Stewart St and Douglas St/Stewart Street are faded and covered in loose gravel.



Photo 25: Existing Line Marking and loose gravel at Middle Road / Stewart Street intersection

Recommendation: Clear gravel from the intersection and reinstate the existing line marking.

C19
There are several guideposts missing from the intersections of Middle Rd/Stewart St, Foster Street/Stewart St and Douglas St/Stewart Street.

Recommendation: Reinstate guideposts at intersections.

C20
There are several places along Stewart Street (CH1040, CH540-650, CH1350) that show signs of edge wear. This is a sign of the carriageway not being wide enough and vehicles using the shoulder.



Photo 21: Edge wear at CH1350

Recommendation: Perform shoulder widening works along Stewart Street to increase carriageway width.

C21
There are several pavement failures along Stewart Street



Photo 41 and Photo 18: Pavement failures along Stewart Street

Recommendation: Fix pavement failures

C22
Particular focus was placed on pedestrians and pedestrian connectivity throughout the road length. As the verge width was an average of 10-15m wide, there was sufficient room for pedestrians to safely walk the length of Stewart Street, however in several locations pedestrians would be forced to walk on the road due to the location of culverts and overgrown vegetation.

Throughout the entire time of the audit (2.00pm - 4.30pm) there were no pedestrians observed walking on Stewart Street,

Recommendation: As the road has an AADT of 550 vehicles per day, it did not seem unreasonable for pedestrians to walk on the road for these short sections. When funds become available, provide appropriate off road pedestrian facilities along Stewart Street...

Night Observations

C23

All signage along Stewart Street has little or no reflectivity.

Recommendation: Replace signage on Stewart Street.

Action Plans; Speed Limit Review for Stewart Street; Photographs;

- References

 1. Guide to Road Safety Part 6: Road Safety Audit: Austroads 3^{rt} Ed. 2009.

 2. Manual of Uniform Traffic Control Devices: Department of Transport and Main Roads 1999.
 - Roads 1999.

 AGRD04A AUSTROADS Guide to Road Design Part 4A: Unsignalised and Signalised intersections (Austroads Inc. 2009)

 Road Planning and Design Manual: Department of Main Roads 2000.

 Austroads Road Safety Engineering Toolkit: www.engtoolkit.com.au

29,10 12013 Jeff Van Nunen

Senior Road Safety Auditor

29 4 10 1 13 Stuart Harvey Road Safety Auditor

Hory

P.P. Wenter 30 1 10 13013

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Kath Ferguson Assistant Road Safety Auditor

Rockhampton Regional Council: Gracemere Industrial Area Project RSA Risk Table: Existing Stage Audit, Middle Road/Macquarie Street, Stewart Street

Risk Assessment

F - Frequency
S - Severity
Frequent, Probable, Occasional, Improbable (Tables 4.1 – 4.4, Guide to Road Safety Part 6: Road Safety Audit
(Tables 4.1 – 4.4, Guide to Road Safety Part 6: Road Safety Audit
(Tables 4.1 – 4.4, Guide to Road Safety Part 6: Road Safety Audit

C - Cost L low, M medium, H high E - Effectiveness L low, M medium, H high

No	Risk				isk Deficiency/ Observation	Photo	Recommendation/ Comment
	F	S	C	E		No.	
ΑI	0	s	М	М	The approaches to the intersection make it very difficult to distinguish the difference between major and minor roads.	4 5 42 43 44	Reinforce intersection priority with construction of medians on the minor leg. On the southern leg of Macquarie Street a raised median could be used and on the northern leg a painted median could be used to allow heavy vehicles to track the intersection. The addition of centreline marking on Middle Road may reinforce Middle Road as the major road at the intersection.
A 2	p	s	L	н	The sight distance on the Macquarie Street legs are restricted by overgrown vegetation around the intersection.	6 7	Regularly maintain vegetation around the intersection specifically on the Middle road legs. Removal of a flea tree in Photo 6 may be required.
вз	0	s	L	н	The culverts one side of the southern leg of Macquarie Street are not delineated by guideposts. There is no warning of the steep drain and culvert for motorists.	1	Install guideposts to properly delineate the location of the culvert
C4	Regulatory requirement			There is no Crossroad sign (W2-1) on the east leg of Middle Road. Also the existing Crossroad sign (on the western leg of Middle Road) is not designed to the current MUTCD design standard.	3	Install W2-1 sign on eastern leg of Middle Road to the current MUTCD design standards. Replace existing W2-1 sign with a new MUTCD standard W2-1 Crossroad Sign.	
C5	Regulatory requirement			There are no regulatory speed signs (R4-1) on either of the Middle Road approaches.		Install R4-1 regulatory speed limit signs on both legs of the Middle Road at a sufficient distance from the intersection to MUTCD design standards.	

No	F	R	isk C	E	Deficiency/ Observation	Photo No.	Recommendation/ Comment
C 7	Maintenance issue		-	The existing line marking on Macquarie Street is laded and covered in loose gravel.	3 4	Clear gravel from the intersection and reinstate the existing line marking.	
C8	1	Maint is	enanc sue	ю	The Crossroad sign (W2-1) on Middle Road has poor reflectivity.		Replace Crossroad sign (W2-1).
C9	1	Maint is:	enanc sale	8	The G5-1 lingerboards for Middle Road and Macquarie Street have poor reflectivity.	7	Replace G5-1 lingerboards.
A10	P	c	м	М	The intersection of Stewart Street and Middle Road has insufficient Safe Intersection Sight. Distance (SISD) for the current intersection configuration and posted speed limit. The required SISD for the current speed environment (80km/hr) is 214m and the intersection can only achieve 150m.	25 26 27 28 30 31 32	Option 1: Widen the shoulder of the northbound lane on Stewart Street to allow vehicles travelling northbound to pass a vehicle that has turned right out of Middle Road. This would involve widening the lane to provide an Auxiliary Right Turn (AUR) on Stewart Street. Option 2: Alternatively, an advisory 60km/hr sign (W8- 2) could be installed underneath the Side Road Intersection (W2-4 R) sign. This could lower the speed at the intersection and decrease the required SISD to 151m making the speed acceptable for the available SISD. Option 3: Reduce the speed limit on Stewart Street to provide SISD
Alī	0	S	L	н	There are several trees that may be located within the clear zone on Stewart Street. For an 80km/hr speed environment the clear zone width should be 5m for a 1:4 batter. The batter on the table drain at the Southern End of Stewart Street seemed steeper than 1:4 however it was difficult to be sure due to vegetation growth in the drain.	12 13	Review the slope of the batter at the southern end of Stewart Street and if table drain has a slope of 1:4 or greater than remove any vegetation within the clear zone.
B12	o	М	L	М	Several culverts along Stewart Street are not delineated by guideposts. Culverts at Chainage 740, 820, 910, 1680 and at the intersection of Latimer Avenue and Stewart Street are not properly delineated. There is no warning of the steep drain and culvert for motorists.	16 23 34	Install guideposts to properly delineate the location of the culverts.

Page (34)

No	Risk				Risk Deficiency/ Observation	Photo	Recommendation/ Comment														
	F	S	C	E			CONT. MANY COMMONY AS 75 CAY														
B13	0			ммм	о м м		о м м м	о м м		1 M M		1 M	М	M M	М	ММ	м м м	М	Sight distance at the intersection of Stewart Street and Somerset Road is restricted by location of steel mesh fence. Vehicles on Stewart Street wishing to look right along Somerset Road have a restricted view.	39	Trim vegetation in table drain and possibly remove some of the panels of fencing.
B14	0	М	L	н	There is a Flea Tree within the 80km/hr clearzone at the intersection of Middle Road and Stewart Street.	24	Remove Tree.														
C15	15 Regulatory Requirement			There are no Hazard Boards (D4-2-3) on any of the T- Intersections along Stewart Street. Latimer Avenue, Douglas Street and Foster Street have guideposts opposite the minor leg approach rather than the standard Hazard Board	20 38	Install D4-2-3 sign opposite minor leg on Latimer Avenue, Douglas Street and Foster Street intersections as per MUTCD standards.															
C16	ī	t	М	М	At the Stewart Street / Middle Road intersection, the driveway access for 253 Middle Road enters the roadway 10m from the hold line at the Middle Road Intersection.	27 28	Relocate driveway away from intersection of Middle Rd / Stewart Street.														
C17	7 Regulatory Requirement			The existing G5-1 signs at Middle Road, Latimer Avenue, Douglas Street and Foster Street have lettering that is too small for the speed environment. At 80km/hr it is difficult to read the small lettering on the fingerboard signs.	20 29 38	Install a appropriately sized G5-1 fingerbboard street sign with 130mm high lettering on it as per Table 2.1 of Part 5 of the MUTCD.															
C18:	Maintenance requirement		The existing line marking at the intersections of Middle Ci Maintenance Rd/Stewart St, Foster ex		Clear gravel from the intersection and reinstate the existing line marking.																
C19	Regulatory Requirement			There are several guideposts missing from the intersections of Middle Rd/Stewart St, Foster Street/Stewart St and Douglas St/Stewart Street.	47	Reinstate guideposts at intersections.															
C20	20 Maintenance Requirement			There are several places along Stewart Street (CH1040, CH540-650, CH1350) that show signs of edge wear. This is a sign of the carriageway not being wide enough and vehicles using the shoulder.	21 33	Perform shoulder widening works along Stewart Street to increase carriageway width.															

No	Risk				Risk Deficiency/ Observation	Photo	Recommendation/ Comment		
	F	S	C	E	August 19 and 19	No.	4857		
C21	Maintenance issue			PROTECT CONTROLS		14 18 19 41	Fix pavement failures		
C22	2 1 L M L		L	Minimal Pedestrian facilities along Stewart Street. At culvert locations and locations of overgrown vegetation, pedestrians are forced to walk along the road.		Consider constructing appropriate off road pedestrian facilities as funds become available.			
C23	Regulatory Requirement				All signage along Stewart Street has little or no reflectivity.		Replace signage on Stewart Street		

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Authorised Speed Limit:

Detail Report Page 1 of 3

Speed Limit Review – Queensland (SLR-QLD) **Detailed Assessment Report**

Background Information

Analysed By: Stuart Harvey.

User Reference: Stewart Street (GIAP), Rev. 1

Road Name: Stewart Street.

Road Location: Between Boongary Road and Somerset Road.

Suburb: Gracemere. GPS Start Point GPS Finish Point: TMR Road Number:

Local Government: 258, Rockhampton Regional Council

Main Roads District: 6, Central

The need to review the speed limit on this road has occurred

due to altered speed environment.

The length of the road section being assessed is 1.9 km

AADT on this road section is 415 vpd

The existing speed limit is 80 km/h.

Adjacent Speed Zones

Approach 1: 60 km/h - Nothern Approach from Somerset

Approach 2: 100 km/h - Southern Approach from Boongary

Road

Stage 1: Road function

This section of Stewart Street being assessed is located in a rural settlement area.

The road type is: Trunk Collector Roads and Collector Roads.

The Typical Speed Limit is: 80 km/h

The Existing Speed Limit does equal the Typical Speed Limit

Stage 2: Prevailing Traffic speed

Sample data on 2243 vehicles was analysed using "

The upper limit of 15 km/h pace is 75

The mean speed is 62 km/h

The 85th percentile speed is 77 km/h

Hence, the prevailing traffic speed data does not correlate with the existing Speed Limit

Stage 3: QLIMITS

The suggested speed limit based on the speed environment analysis was 80 km/h after allowing for site specific issues.

Additional issues considered:

- · Note: A Road safety audit has been conducted to assess roadside activities or hazards
- Adverse road conditions have been identified along the section of road. Targeted advisory signing, remedial works or lower limits should be considered if appropriate. The issues include:

http://www.glimits.com.au/member/IndividualDetailReport.aspx?id=2959

18/06/2014

Detail Report Page 2 of 3

Sub-standard sight distance at the intersection of Middle Road and Stewart Street, Vehicles travelling north along Stewart Street do not have sufficient Safe Intersection Sight Distance (SISD).

- Speed environment was assessed (Stage 3 was completed). Answers to the Speed Environment questions were as follows:
 - Has a comprehensive road safety audit been completed? NO
 - Did the road safety audit highlight deficiencies that have not been corrected? NO
 - . Was the road safety audit conducted more than 3 years ago? NO
 - Is there a concern for pedestrian or cyclist safety along the road segment? NO
 - . Are there high risk intersections in the road segment? NO

Frequency of Roadside Accesses

	Type of access	Number
A	Residences, small commercial establishments, small public buildings and other units which generate light and/or occasional activity. (The weighting for this type of access is 1).	
В	Average commercial establishment, local schools, caravan parks, light industries, public buildings and units generating activity which is either: 1. Continuous light. 2. Moderate at certain times, such as commuting hours. 3. Substantial at infrequent intervals. (The weighting for this type of access is 2).	0
С	Heavy industry, schools, shopping centres and other units generating continuous moderate activity or substantial activity at certain regular times. (The weighting for this type of access is 3).	0
D	Large shopping centres and other units generating substantial and continuous activity. Some large industries which are tourist attractions or for some other reason generate substantial traffic volumes would be included in this activity. (The weighting for this type of access is 4).	
E	Unsignalised intersecting roads of substantially lesser importance than the road being assessed, or intersecting roads where side traffic and turning movements have little effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 1).	4
F	Unsignalised intersecting roads of lesser importance than the road being assessed but where the side road traffic and turning movements are such that the intersection has appreciable effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 2).	0
G	Unsignalised intersecting roads of comparable or greater significance than the road being assessed. Intersections which have pronounced effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 3).	0
Н	Roundabouts and signalised intersecting roads, (The weighting for this type of access is 3).	0
	Average number of accesses per 100 m	1.15

Freeway

This road is not a freeway

http://www.qlimits.com.au/member/IndividualDetailReport.aspx?id=2959

18/06/2014

Detail Report Page 3 of 3

Road Geometry and Congestion

Adverse road conditions have been identified along the section of road. Targeted advisory signing, remedial works or lower limits should be considered if appropriate. The issues include: Sub-standard sight distance at the intersection of Middle Road and Stewart Street. Vehicles travelling north along Stewart Street do not have sufficient Safe Intersection Sight Distance (SISD).

Special Roadside Activities

Note: A Road safety audit has been conducted to assess roadside activities or hazards

Number of crashes in the past 6 years:

Description	No. of crashes
Head-on	0
Rear-end	0
Lane change	0
Parallel lanes, turning	0
U-turn	0
Entering roadway	0
Overtaking, same direction	0
Hit parked vehide	0
Hit railway train	0
Pedestrian	0
Permanent obstruction on carriageway	0
Hit animal	0
Off carriageway, on straight	0
Off carriageway, on straight, hit object	0
Out of control, on straight	0
Off carriageway on curve	0
Off carriageway, on curve, hit object	0
Out of control, on curve	0

The average annual equivalent crash risk is 0.00 (104)

Stage 4: Speed correlation check & recommendations

The speed limit based on road function is 80 km/h.

The speed limit suggested by current speed data is 70 km/h.

The speed limit suggested by the speed environment (QLIMITS) is 80 km/h.

Recommendations and authorisation

THE RECOMMENDED SPEED LIMIT IS 80 km/h

The final speed limit authorised for installation is 80 km/h

Recommended By: Stuart Harvey Authorised By:

http://www.qlimits.com.au/member/IndividualDetailReport.aspx?id=2959

18/06/2014

File No: 7127

Attachments: 1. Lucas Street Proposed Speed Limits Plan

2. Cherryfield Road Proposed Speed Limit Plan

3. Lucas Street Existing Speed Limit Plan

4. Cherryfield Road Existing Speed Limit Plan

5. Lucas Street Speed Limit Review

6. Cherryfield Road Speed Limit Review

7. 3E Committee Minutes 3 April 2014

Authorising Officer: Martin Crow - Manager Engineering Services

Robert Holmes - General Manager Regional Services

Author: Angus Russell - Coordinator Strategic Infrastructure

SUMMARY

Several requests for speed limit reviews have been received from community members in the Lucas Street and Cherryfield Road area. This report provides a recommendation on these speed limit reviews.

OFFICER'S RECOMMENDATION

THAT the following new speed limits be adopted:

- a) An amended speed zone of 60km/h for the length of Lucas Street as shown on Plan 2014-147-02;
- b) An amended speed zone of 60km/h for the length of Cherryfield Road, between Johnson Road and Glover Street, as shown on Plan 2014-166-02.

COMMENTARY

The request for a speed limit review was received from members of the Gracemere community. This report provides a recommendation on this speed limit reviews. A summary of the request that was recently investigated is as follows:

- 1. Request to reduce speed limit on Lucas Street from 70km/h (as shown on Plan 2014-147-01) to 60km/h throughout the length of Lucas Street.
- 2. Request to reduce speed limit on Cherryfield Road from 80km/h (as shown on Plan 2014-147-01) to 60km/h between Johnson Road and Glover Street.

Residents in the Gracemere Community have expressed their concern that the speed limit of 70km/hr along Lucas Street is not safe for the current road conditions. Lucas Street was posted at 70km/hr before a large amount of residential development occurred in Gracemere. Since then, the number of properties fronting Lucas Street, and the number of intersections along Lucas Street have increased significantly. Due to this change in speed environment, a change to the speed limit was requested.

As a part of the investigation into the Lucas Street speed limit review, officers noticed that Cherryfield Road had also experienced significant residential development since the speed limit was posted at 80km/hr. Several roads intersect Cherryfield Road between Johnson Road and Glover Street and many houses now have direct access onto this road. Further development has also been proposed along Washpool Road. There has been a noticeable change to the speed environment as a direct result of residential development. For this reason, the Cherryfield Road speed limit was reviewed as well.

Speed limit reviews were carried out at these locations in accordance with the Manual of Uniform Traffic Control Devices (Part 4 – Speed Controls) and utilising the QLIMITS Speed Environment Analysis software. QLIMITS is a web based software application provided by the Department of Transport and Main Roads (DTMR) for the analysis of road environments in the process of setting safe speed limits.

The recommendations of the analysis were discussed and approved by the Rockhampton Region Speed Management Committee, which consists of representatives from the Queensland Police, Rockhampton Regional Council and the Department of Transport and Main Roads, at their monthly road safety meeting. Details of each of the assessments and meeting minutes from the Rockhampton Region Speed Management Committee have been included in the appendices. Due to the timing of the meetings, the Cherryfield Road speed limit review was approved via email correspondence.

The recommended new speed limit is the outcome of the analysis and evaluation process conducted by Council and is supported by the Queensland Police Service and Department of Transport and Main Roads. Due to the significant change in speed environment, the roads changed function and the road users current speed characteristics, a proposed speed limit of 60km/hr was recommended for both Lucas Street and Cherryfield Road.

The recommendations are now presented to Council for adoption, prior to implementation. Queensland Police have agreed to enforce the new speed limits after their introduction.

BACKGROUND

Council often receives requests for changes to speed limits in both urban and rural areas. The Manual of Uniform Traffic Control Devices published by the Department of Transport and Main Roads provides a standardised methodology to conduct a technical assessment of an appropriate speed limit based on the road function, prevailing traffic speeds and speed environment.

The methodology also requires the endorsement of a local Speed Management Committee made up of representatives of Council, Department of Transport and Main Roads and Queensland Police.

The purpose of the Rockhampton Region Speed Management Committee is to ensure that the interests of all road users are considered before a speed zone is established and to ensure that speed zones throughout the region are consistent and credible.

BUDGET IMPLICATIONS

Signage costs are currently allocated in the Budget.

RISK ASSESSMENT

Transport and Main Roads support these changes and the Police have agreed to enforce the new speed limit after its introduction. The likelihood and severity of crashes in these locations should reduce as a result of the reduced speed limit.

Analysis indicated the majority of motorists on Lucas Street are currently complying with the lower proposed speed limit (60km/hr). Reducing the speed limit may result in adverse comments from residents / motorists who drive through the area, however their compliance with the existing speed limits indicate an understanding of the importance of a reduced speed in the area. Adequate enforcement will be required to reinforce this change in speed through the area.

CORPORATE/OPERATIONAL PLAN

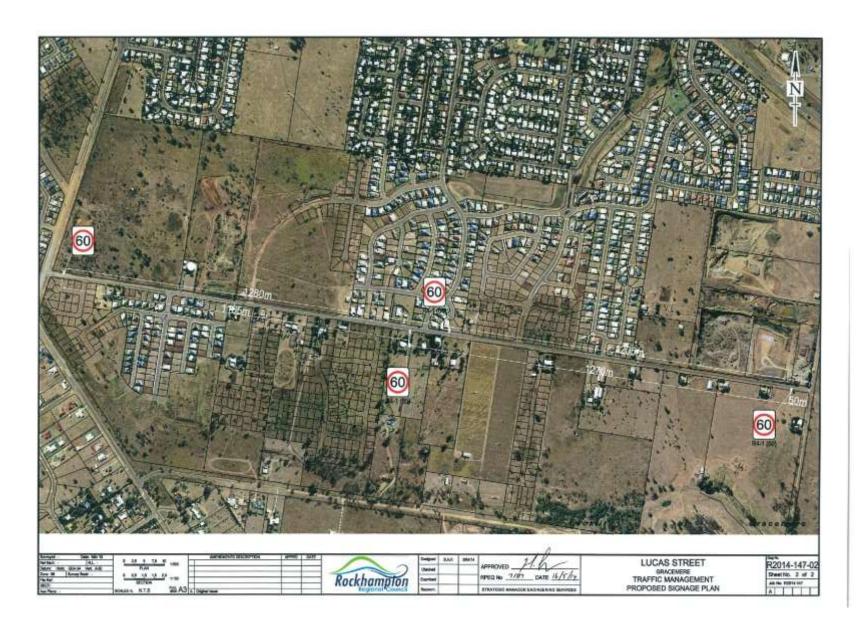
3.1.1 Consult on, advocate, plan, deliver and maintain a range of safe urban and rural public infrastructure appropriate to the Region's needs, both present and into the future.

CONCLUSION

Council Officers have followed a standardised methodology to conduct speed limit reviews at a number of locations in Gracemere. The result of the speed limit review has received the endorsement of the Rockhampton Region Speed Management Committee. The recommendations are now presented to Council for consideration and adoption, prior to implementation.

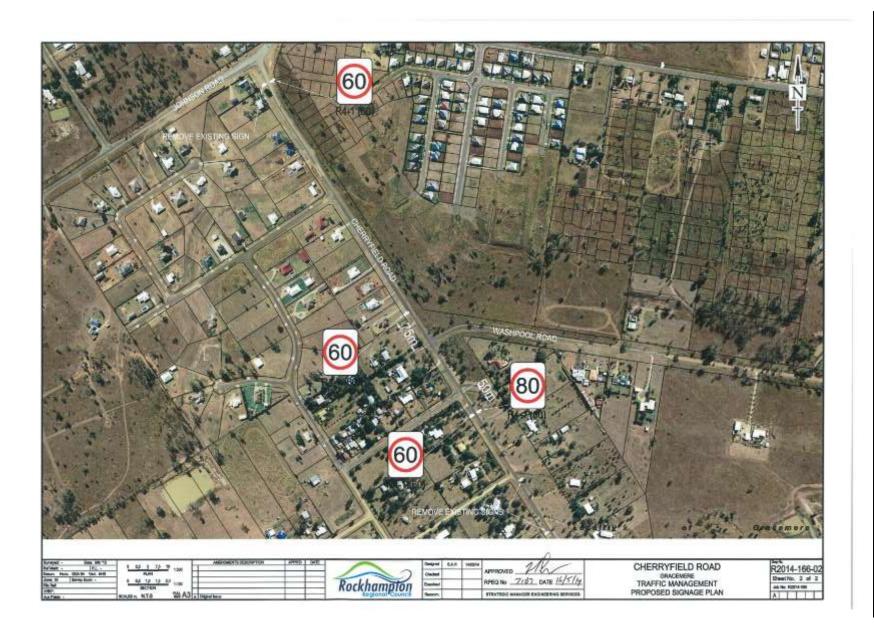
Lucas Street Proposed Speed Limits Plan

Meeting Date: 2 July 2014



Cherryfield Road Proposed Speed Limit Plan

Meeting Date: 2 July 2014



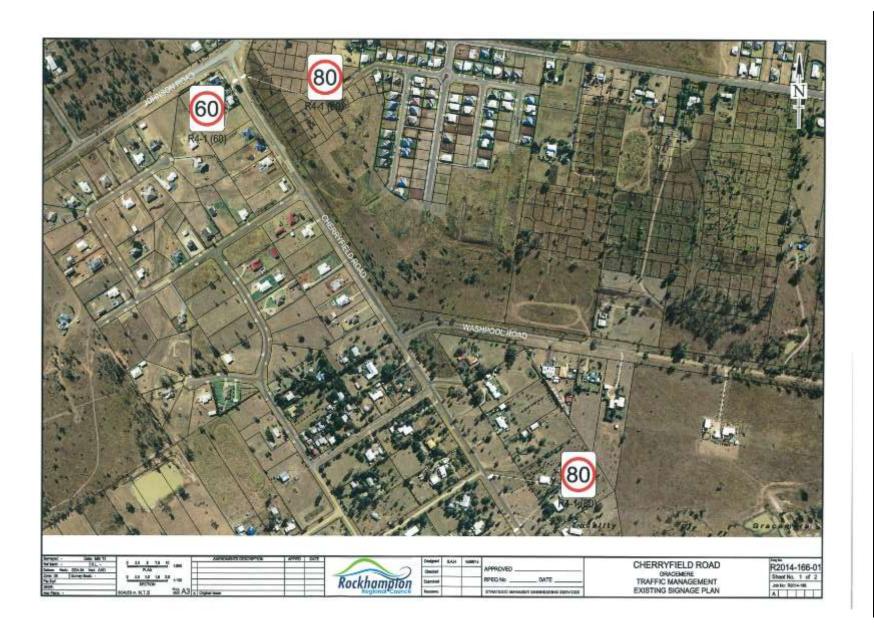
Lucas Street Existing Speed Limit Plan

Meeting Date: 2 July 2014



Cherryfield Road Existing Speed Limit Plan

Meeting Date: 2 July 2014



Lucas Street Speed Limit Review

Meeting Date: 2 July 2014

			FORM F1 QLIMITS	FIELD DATA FORM	1		
	Sec. 19.		a later date, please ensure that it is standards-oublications/Manual-of-			The second secon	gld.gov.au/
LO	CAL	GOVERNMENT	/DISTRICT Rockhampton Re	gional Council RO	AD:	Lucas Street	
LO	CATI	ON: Between	Johnson Road and Allen Road				
RE	COR	DER: Stuart Ha	vey	DAT	ΓE:	1/4/14	
		war and the same	box to respond			Land Control	
1.1	OCA	TION OF ROA	0				
The	anea	in which this ro	ad section is located is gener	ally:			
(i)	Uri	oan:	Fully built-up area with constindustrial land uses.	olidated residential, c	omi	mercial and	V
(ii)	Urt	oan Fringe:	Less developed area typicall small scale farming, future u				
(iii)) Rural Settlement: Small settlements or townships located in rural areas which are typically located on through roads, and where all or most land development is concentrated on, or has direct access to, those through roads.						
(iv)	Ru	ral:	Areas that are rural in nature The only residential propertie homesteads and farmhouse	s in these areas will			
2. L	ENG	TH OF ROAD					
The	leng	th of road section	n is <u>2.55</u> km				
3. L	JPPE	R LIMIT OF TH	E 15 km/h PACE				
The	uppe	er limit of the 15	km/h pace of free vehicles on	this road section is 6	4		km/h
4. C	EVE	LOPMENT (for	divided roads only)				
The	deve	elopment on bot	h sides of the road is:	balanced			
				unbalanced			
	; (i)	Abutting developm traffic lanes are con	ADSIDE ACCESSES (for bot ent on service roads is not conside inted. inted once each side of the road.				the through
Abı	utting	properties					
(a)			commercial establishments, r occasional activity.	small public building	ngs	and other un	its which
			Number of this	type: Side 1 = 16		Side 2 = 33	
(b)			l establishments, local school grating activity that is:	s, caravan parks, ligh	nt in	dustries, public	buildings
	(i)	continuous lig	nt				
	(ii)	moderate at c	artain regular times, such as c	ommuting hours			
	(iii)	substantial at	nfrequent intervals				
			Number of this t	ype: Side 1 = 1		Side 2 = 1	

(c)	Hea	vy industry, schools, shopping centres and other units generation	ng	
	(i)	continuous moderate activity or		
	(ii)	substantial activity at certain regular times.		
		Number of this type: Side $1 = 0$	411 TO TOO 10 10 10 10 10 10 10 10 10 10 10 10 10	
(d)	indu	e shopping centres and other units generating substantial and stries that are tourist attractions or for some other reason gene ld be included in this activity.	continuous activity. Son arate substantial traffic v	ne large rolumes
		Number of this type: Side $1 = 0$	Side 2 = 0	
Inte	rsect	ions		
(a)	road	secting roads of substantially lesser importance than the roa is where side road traffic and turning movements have little eff road being studied.		
		Number of this type: Side $1 = 3$	Side 2 = 5	
(b)	turni	secting roads of lesser importance than the road being studied ng movements are such that the intersection has appreciable e road being studied.	but where side road tra effect on the traffic flow	ffic and pattern
		Number of this type: Side $1 = 0$	Side 2 = 0	
(c)	sign	affised intersections, roundabouts and intersections with road ificance than the road being studied. Intersections which has a flow pattern of the road being studied.	ls comparable to or of ve a pronounced effect	greater on the
		Number of this type: Side $1 = 0$		
	Note:	 (i) Abutting development on service roads is not considered and therefore traffic lanes are counted. (ii) Crossroads are counted once each side of the road. 	only the points of access to th	e through
6. D	IVIDI	ED OR UNDIVIDED		
The	secti	on of road being studied is:	undivided	V
			divided	П
Note	(ii)	Double barrier fines do not constitute a median. A painted median is sufficient to constitute a divided road if it extends to consideration (excepting median breaks for turns, etc).	r the full length of the sect	on under
7. R	EST	RICTION OF ACCESS		
The	majo	r part of this road has restriction of direct vehicular access on:	neither side	
			one side	
			both sides	V
			10000000010000000000	
Note		This restriction may include service roads, river or railway line alongside the recourse, airport.	oad or a large fenced-off area	e.g. gor
	ETB/		N N N S	-
The	setb	ack of the through traffic lanes to the property boundary line is:	less than 4 metres	
			4-10 metres	
			more than 10 metres	
Note	(i) (ii)	If development is balanced, the lower setback value should be used. If development is unbalanced, the setback value for the more developed side	should be used.	147-141
9. N	EDIA	N .		
Fig. 3		ral median has a width of metres		
FOR	M F1: 0	QLIMITS Field Data Form		2

10. PROTECTION OF TURNING/CROSSING VEHICLES	S			
The median protects turning vehicles:	fully			
	only pa	artially or no	ot at all	\checkmark
11. NUMBER OF LANES				
The total number of traffic lanes is 2 land	nes			
Note: (i) include <u>through</u> Isnes in both directions. (ii) do not include service roads or exclusive parking lanes. (iii) if lanes are not clearly marked, count the number of lanes or	ormaliy used	i by drivers du	ring busy traffic park	ods.
12. FUNCTION OF ROAD				
The main reason that vehicles use this section of road is:	traffic r	novement		V
	access	to abutting	properties	
13. ADJACENT ROAD SECTIONS				
The speed limits on the adjoining road sections are: 80	kr	n/h <u>70</u>	km/h	
14. FREEWAY				
Is this road a freeway?	NO		YES	
15. LOW SPEED AREA				
is this road a low speed area?	NO			1
	YES (L	ATM area)		
	YES (si	hared-use z	one)	
16. OTHER FACTORS				
is the road predominantly winding or hilly?	NO		YES	
Is the road unusually congested?	NO	\square	YES	
17. SPECIAL ROADSIDE ACTIVITIES				
Are there any schools along this road section?	NO		YES	
18. CASUALTY CRASH RATES				
Compared to other similar road sections the casualty crash rate is:	averag	e or lower fl	han average	\square
	a little l	higher than	average	
	signific	antly higher	than average	
Note: Care should be exercised when using historical crash rate data, occurred whilst the road is in its current state, e.g. if an intersection has use crash data from the period following these changes.				
19. TRAFFIC SIGNALS/ROUNDABOUTS				
Are there any traffic signals or roundabouts along this road	section?	NO [7 YES	
FORM F1: QLIMITS Field Data Form				3

Speed Limit Review – Queensland (SLR-QLD) **Detailed Assessment Report**

Background Information

Recommended Speed Limit:

Analysed By: Stuart Harvey.

User Reference: Lucas Street - Gracemere, Rev. 1

Road Name: Lucas Street.

Road Location: Johnson Rd / Lucas St - Allen Rd / Lucas

Suburb: Gracemere. GPS Start Point : GPS Finish Point: TMR Road Number:

Local Government: 258, Rockhampton Regional Council

Main Roads District: 6, Central

The need to review the speed limit on this road has

occurred due to community request.

The length of the road section being assessed is 2.55 km

AADT on this road section is 1912 vpd The existing speed limit is 70 km/h.

Adjacent Speed Zones

Approach 1: 60 km/h - Johnson Road / Lucas Street

Intersection

Approach 2: 70 km/h - Allen Road / Lucas Street

Intersection

Stage 1: Road function

This section of Lucas Street being assessed is located in a urban area. The road type is: Trunk Collector Roads and Collector Roads.

The Typical Speed Limit is: 60 km/h.

The Existing Speed Limit does not equal the Typical Speed Limit

Stage 2: Prevailing Traffic speed

Sample data on 21032 vehicles was analysed using "

The upper limit of 15 km/h pace is 64

The mean speed is 57 km/h

The 85th percentile speed is 66 km/h

Hence, the prevailing traffic speed data does not correlate with the existing Speed Limit

Stage 3: QLIMITS

The suggested speed limit based on the speed environment analysis was 60 km/h after allowing for site specific issues.

Additional issues considered:

- · A lower speed limit may be appropriate due to the presence of special roadside activities in the area. These include:
 - · Schools or school crossings
 - Narrow traffic lane width

Note: A Road safety audit has NOT been conducted to assess roadside activities or hezerds

- Speed environment was assessed (Stage 3 was completed). Answers to the Speed Environment questions were as follows:
 Has a comprehensive road safety audit been completed? NO
 Did the road safety audit highlight deficiencies that have not been corrected? NO

 - Was the road safety audit onducted more than 3 years ago? NO
 Is there a concern for pedestrian or cyclist safety along the road segment? NO
 Are there high risk intersections in the road segment? NO

Frequency of Roadside Accesses

	Type of access	Number
A	Residences, small commercial establishments, small public buildings and other units which generate light and/or occasional activity. (The weighting for this type of access is 1).	49
В	Average commercial establishment, local schools, caravan parks, light industries, public buildings and units generating activity which is either: 1. Continuous light. 2. Moderate at certain times, such as commuting hours. 3. Substantial at infrequent intervals.	2
	(The weighting for this type of access is 2).	
С	Heavy industry, schools, shopping centres and other units generating continuous moderate activity or substantial activity at certain regular times. (The weighting for this type of access is 3).	0
D	Large shopping centres and other units generating substantial and continuous activity. Some large industries which are tourist attractions or for some other reason generate substantial traffic volumes would be included in this activity. (The weighting for this type of access is 4).	0
E	Unsignalised intersecting roads of substantially lesser importance than the road being assessed, or intersecting roads where side traffic and turning movements have little effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 1).	8
F	Unsignalised intersecting roads of lesser importance than the road being assessed but where the side road traffic and turning movements are such that the intersection has appreciable effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 2).	0
G	Unsignalised intersecting roads of comparable or greater significance than the road being assessed. Intersections which have pronounced effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 3).	0
Н	Roundabouts and signalised intersecting roads. (The weighting for this type of access is 3).	0
	Average number of accesses per 100 m	2.39

Road Cross Section The road is Undivided

Number of Lanes

The total number of traffic lanes on this section of road is 2

Function of Road

The road is primarily used for Traffic movement (freeway/arterial/sub arterial/trunk collector)

Restrictions of Access

There are no restrictions.

Special Roadside Activities

A lower speed limit may be appropriate due to the presence of special roadside activities in the area. These include:

- · Schools or school crossings
- · Narrow traffic lane width

Note: A Road safety audit has NOT been conducted to assess roadside activities or hazards

Number of crashes in the past 5 years:

Description	No. of crashes
Head-on	1
Rear-end	0
Lane change	0
Parallel lanes, turning	0
U-turn	0
Entering roadway	0
Overtaking, same direction	0
Hit parked vehicle	0
Hit railway train	0
Pedestrian	0
Permanent obstruction on carriageway	0
Hit animal	0
Off carriageway, on straight	0
Off carriageway, on straight, hit object	0
Out of control, on straight	0
Off carriageway on curve	0
Off carriageway, on curve, hit object	0
Out of control, on curve	0

The average annual equivalent crash risk is 11.00 (104)

Crash Rate

The crash rate is 618 (104 ERUs per 108 VKT)

Stage 4: Speed correlation check & recommendations

The speed limit based on road function is 60 km/h.

The speed limit suggested by current speed data is 60 km/h.

The speed limit suggested by the speed environment (QLIMITS) is 60 km/h.

Recommendations and authorisation

THE RECOMMENDED SPEED LIMIT IS 60 km/h

	FORM F3 CHECKLIST FOR REV	VIEW OF EXISTING	SPEED LIMI	r
Not required	for setting speed limits on roads in rural residential a	areas. See MUTCD Part 4	Section 3.4.	
LOCATIO	ON IDENTIFICATION			
Road Ow	ner: MRD	District Number:		
	■ LGA			
LGA Num	Number: LGA Name: Rockhampton Res LGA Name: Rockhampton Res Suburb: Gracemere Name: Lucas Street Number: 006510 d Segment: Location or Reference Point Chainage or Distance (decir Latitude tart Lucas St / Jonhson Road Intersection 150.449	khampton Regi	onal Council	
Town/City	Gracemere	Suburb: Gra	cemere	
Road Nan	ne: Lucas Street	Road Section:		
	voscos			
Road Seg	ment:		_	
	1 - V-1 - V-		\$250 k \$250 kg	coordinates al degrees)
			Latitude	Longitude
Start	Lucas St / Jonhson Road Intersection		150.449	-23.457
End	Lucas St / Allen Road Intersection	2.71	150,474	-23.461
AADT: 191	NG OFFICER			
Employer:	0.11			
Address: .	DO DOY 4000 Dealbouries D. D. 4700			
Phone No.	. 4936 8914			***************************************
Date of Re	oview: 01/04/14			
lave you	undertaken appropriate training in the appl	ication of Part 4?	Yes 🔳	No 🗆
lotes:				
1. The r	numbering convention used for the Checklist coincide	s with that used in MUTC	D Part 4 Figure F	1.

- 2. References to Figures and Tables are to those in Part 4 of the Manual of Uniform Traffic Control Devices.
- 3. Mark following selections with a tick.

SPEED LIMIT REVIEW	Stage 2 – Prevailing Vehicle Speed Analysis				
1. The need to review the speed limit on this	Prevailing Vehicle Speed Data				
road has occurred due to:	(a) Collected using:				
☐ General Limit no longer applicable	☐ Manual methods				
 Altered speed environment 	Automatic device (specify type)				
 Evidence of speed limit/vehicle speed discrepancies 	METROCOUNT TUBE COUNTER				
☐ Need to adjust speed zone lengths	Other (specify)				
■ Community request					
Other (specify)					
Collet (openity)	(b) Collected according to guidelines:				
101411111111111111111111111111111111111	Specified in Appendix G				
	Other (specify)				
Stage 1 – Road Function Analysis	METROCOUNT REPORT				
2. Road Function					
If the road is in a rural environment, go to	(c) Analysed using:				
Step 3.	☐ EsdeeMan version 3.0				
For a road in an urban environment, the	☐ Manual methods				
function of the road has been identified as:	Other (specify)				
Access / Local street	METROCOUNT REPORT				
Collector street					
☐ Trunk collector road	(d) Results from analysis:				
☐ Sub-arterial road	No. of vehicles in sample 21932				
☐ Arterial road	Upper limit of 15 km/h pace: 64 km/h				
☐ Controlled access arterial road, Freeway	% vehicles in the 15 km/h pace; 52%				
If rural, go to Step 3	85th %ile speed: 56 km/h				
From Table B1 (Urban) or B2 (Rural), the	Contract Contract				
typical speed limit is: 60km/h	Mean speed: 57				
 The existing speed limit equals the typical 	Speed data correlates with existing speed Week (see Table C1)				
speed limit?	limit? (see Table C1)				
☐ Yes - go to Step 6	Yes - go to Step 11				
■ No - go to Step 5	■ No - go to Step 7a				
5. Is it proposed to alter the road function to	7a. From Table C2,				
align the typical speed limit with the existing	Suggested speed limit is:,60 km/h				
speed limit speed?	Go to Step 8.				
Yes - go to Step 18	Otana 2 Canad Englander				
■ No⊸go to Step 6	Stage 3 – Speed Environment Analysis				
	8. QLIMITS				
	(a) Field Data Form F1 (Appendix D):				
	☐ Completed				
	■ Copy attached				
FORM F3: Checklist for review of existing speed limit	2				

(d) is casualty crash rate / potential risk factor high?
Yes - go to Step 12
No - Figure F1 leads to:
☐ Step 19
Step 13
 Crash investigation / road safety review or audit conducted by:
Name:
Date:
File/Report No:
Go to Step 15
13. Has the review process suggested an
increase in the speed limit?
☐ Yes - go to Step 14
■ No - go to Step 23
14. Has a safety review (or road safety audit) identified any risk factors?
☐ Yes - go to Step 16
☐ No - go to Step 23
15. Has a crash investigation or safety review
identified causal or risk factors?
☐ Yes - go to Step 16
☐ No - go to Step 22
16. Is treatment feasible?
☐ Yes - go to Step 17
☐ No - go to Step 21
17. (From Step 16)
Proposed treatments / works have been listed for the financial year:
Go to Step 20
18. (From Step 5)
See Figure F1, Note 18
Go to Step 17
19. (From Step 11 via Step 7)
Retain existing limit - go to Step 25
20. Consider whether an interim alteration to the
speed limit is necessary.
Go to Step 25
3

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21. (From Step 16)	(c) Has information provided by the committee
Subject to Figure F1 (Note 21), it is	assisted in determining an appropriate limit?
considered appropriate to:	Yes - it iskm/h
☐ Increase	Go to Step 25
☐ Decrease	□ No - (a) I concur the following speed
the existing speed limit bykm/h	limit for the section of road under
Go to Step 25	consideration: km/h
22. (From Step 15)	Concurred by (TAC Chair):
Retain existing speed limit with enhanced enforcement.	5.4
Go to Step 25	Date:
23. (From Step 13 or 14)	25. Recommendation by Engineer
Adopt speed limit noted at 9(b).	Following the completion of this checklist,
Go to Step 25	which documents the process for the review of speed limits according to Figure F1 of
24. (From Step 10)	Part 4 of the MUTCD, I submit the following:
The review of speed limits according to the	Recommended Speed Limit: 50
process described in Figure F1 has failed to	Recommended by:
determine an appropriate speed limit. Action taken is as follows:	Name:
(a) The Checklist, together with all relevant	Position:
data and information, has been referred	RPEQ No:
to the responsible officer for consideration.	Date:
Referred to:	Authorisation for Deliberation
Ву:	The recommended speed limit is approved for deliberation in the SMC.
RPEQ No:	☐ The recommended speed limit is not
Date:	approved for deliberation by the SMC for the
The responsible officer now has responsibility	following reasons:
for providing recommendations at Step 25.	***************************************
(b) Input to the review requested from the	
Traffic Advisory Committee (TAC)	
Committee meeting of/ offered the following information:	
	☐ The alternative speed limit to be discussed
	or retained is:km/h
	Reasons for the alternative speed limit are:
and/or advised a preferred speed limit of:	
km/h	
J.	

FORM FS: Checklist for review of existing speed limit

Authorised by:	☐ The alternative speed limit to be installed or
Position:	retained is: km/h
(Responsible officer/Regional Director)	Reasons for the alternative speed limit are:
Date:	494844

Endorsement by Speed Management Committee (SMC)	
garanta and and and and and and and and and an	***************************************
 The recommended speed limit has been endorsed by the SMC. 	Authorised by:
☐ The recommended speed limit has not been	Position:
endorsed by the SMC and will now be sent	.,
back to the responsible officer for referral to	(Responsible officer/Regional Director)
the Speed Limit Review Panel (SLRP).	Date:
Recommendation by Speed Limit Review Panel (SLRP)	Form M994 or equivalent local government Form completed by authorising officer and copy filed with this Checklist.
Following the deliberation by the SLRP, the	(Failure to complete this task could
chairperson will forward its recommendation to the responsible officer for consideration:	compromise the legality of the Speed Limit.)
Recommended speed limit:km/h	26. Review / Evaluation
	Will the existing speed limit be altered?
Recommended by:	Yes - program assessment to occur 1-4 weeks after installation.
Name:	No - program for review in 5 years or
(Chairperson SLRP)	sconer if required.
Position:	Where Steps 21, 22 or 23 have indicated
RPEQ No:	that enhanced enforcement is required,
Date:	complete the following:
Authorisation for Installation	Enhanced enforcement of this site by QPS has been requested by reporting the outcome for this speed limit review to:
The recommended speed limit is authorised	☐ Local TAC (Traffic Advisory Committee)
for installation according to the provisions of MUTCD Part 1, Appendix C.	☐ Regional Speed Management Advisory Committee
☐ The recommended speed limit is not	Regional QPS Traffic Co-ordinator
authorised for the following reasons:	
	Reported by:
	Position:
	Date:
	☐ Written advice
***************************************	Other (specify)
	·

FORM F3; Checklist for review of existing speed limit

5

Cherryfield Road Speed Limit Review

Meeting Date: 2 July 2014

			FOR	RM F1 QLI	MITS FIELD DATA	FORM		
					hat it is the most curre ual-of-uniform-traffic-c			r.old.gov.au/
LO	CAL GOV	ERNMENT	T/DISTRICT	Rockhampf	on Regional Council	ROAD:	Cherryfield Roa	ad
LO	CATION:	Graceme	re					
RE	CORDER:	Stuart Ha	rvey			DATE:	14/05/14	
Ticl	(√) the a	ppropriate	box to resp	ond			Europe -	
1. L	OCATION	N OF ROA	D					
The	area in w	hich this re	ad section i	is located is	generally:			
(i)	Urban:	31016 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C		up area with	consolidated reside	ential, com	mercial and	
(ii)	Urban F	nnge:			pically containing le ture urban and othe			\checkmark
small scale farming, future urban and other 'developing' land uses. (iii) Rural Settlement: Small settlements or townships located in rural areas which are typically located on through roads, and where all or most land development is concentrated on, or has direct access to, those through roads.								
(iv)	Rural;		The only re		nature, with large properties in these are louses.			
2. L	ENGTH C	F ROAD						
The	length of	road section	on is 0.85		_km			
3. L	PPER LII	MIT OF TH	E 15 km/h f	PACE				
The	upper lim	it of the 15	ikm/h pace o	of free vehicl	es on this road sect	tion is 72		km/h
4. D	EVELOP	MENT (for	divided roa	ads only)				
			th sides of th		balanced			[7]
					unbalanced			
5. F	REQUEN	CY OF RO	ADSIDE AC	CCESSES (f	or both sides of th	e road co	nhined\	
	(i) Abutt traffic	ing developn lanes are co	nent on service unted.		considered and therefor			the through
Abı	itting pro	perties						
(a)			commercia or occasiona		nents, small public	buildings	and other u	nits which
				Number o	of this type: Side 1 =	1	Side 2 = 16	5
(b)	Average and other	commercia r units gen	al establishn erating activ	nents, local : /ity that is:	schools, caravan pa	arks, light in	dustries, publ	c buildings
	(i) con	ntinuous lig	ht					
	(ii) mo	derate at o	ertain regula	ar times, suc	h as commuting ho	urs		
	(iii) sub	ostantial at	infrequent in					
				Number of	if this type: Side 1 =	0	Side 2 = 0	

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(c)	Hea	ivy industry, schools, shopping centres and other units go	eneratir	ng	
1000	(i)	continuous moderate activity or		0	
	(ii)	substantial activity at certain regular times.			
		Number of this type: Side	= 0	Side 2 = 0	
(d)	indu	ge shopping centres and other units generating substanti istries that are tourist attractions or for some other reasonable beincluded in this activity.			
		Number of this type: Side	= 0	Side 2 = 0	
Inte	rsec	tions			
(a)	road	rsecting roads of substantially lesser importance than t ds where side road traffic and turning movements have i road being studied.			
		Number of this type: Side	1 = 1	Side 2 = 4	
(b)	turn	rsecting roads of lesser importance than the road being ing movements are such that the intersection has appre- ne road being studied.			
		Number of this type: Side	1 = 0	Side 2 = 1	
(c)	sign	nalised intersections, roundabouts and intersections wi ifficance than the road being studied. Intersections wh fic flow pattern of the road being studied.			
		Number of this type: Side	1 = 0	Side 2 = 0	
	Note	 (i) Abutting development on service roads is not considered and the traffic lanes are counted. (ii) Crossroads are counted once each side of the road. 	erefore o	only the points of access to th	e through
6. D	IVID	ED OR UNDIVIDED			
The	sect	ion of road being studied is:		undivided	\checkmark
				divided	
Note		Double barrier lines do not constitute a median. A painted median is sufficient to constitute a divided road if it ex- consideration (excepting median breaks for turns, etc.).	dends fo	r the full length of the sect	ion unde
7. F	EST	RICTION OF ACCESS			
		or part of this road has restriction of direct vehicular acce	ss on:	neither side	
				one side	
				both sides	
Note	e (i)	This restriction may include service roads, river or railway line alongs course, airport.	ide the r	oad or a large fenced-off area	a e.g. go
8. 5	ETB	ACK			
The	setb	back of the through traffic lanes to the property boundary	line is:	less than 4 metres	
				4-10 metres	V
				more than 10 metres	
Note		If development is balanced, the lower setback value should be used. If development is unbalanced, the setback value for the more development.	ed side		_
9.1	MEDI	AN			
		tral median has a width of 0 metres			
1116	CGII	metres			
FOR	M F1:	QLIMITS Field Data Form			2

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10. PROTECTION OF TURNING/CROSSING VEHICLES	3			
The median protects turning vehicles:	fully			
	only p	artially or no	t at all	V
11. NUMBER OF LANES				
The total number of traffic lanes is 2	nes			
Note: (i) include <u>through</u> lanes in both directions. (ii) do not include service roads or exclusive parking lanes. (iii) if lanes are not clearly marked, count the number of lanes in	ormally used	t by drivers dur	ing busy traffic perior	ds.
12. FUNCTION OF ROAD				
The main reason that vehicles use this section of road is:	traffic	movement		
	acces	s to abutting	properties	$\overline{\mathbf{V}}$
13. ADJACENT ROAD SECTIONS				
The speed limits on the adjoining road sections are: 60	kı	m/h <u>80</u>	km/h	
14. FREEWAY				
Is this road a motorway, freeway or expressway?	NO	V	YES	
15. LOW SPEED AREA				
Is this road a low speed area?	NO			V
	YES (L	ATM area)		
	YES (s	hared-use z	one)	
16. OTHER FACTORS				
Is the road predominantly winding or hilly?	NO	$ \mathbf{Z} $	YES	
Is the road unusually congested?	NO		YES	
17. SPECIAL ROADSIDE ACTIVITIES				
Are there any schools along this road section?	NO	V	YES	
18. CASUALTY CRASH RATES				
Compared to other similar road sections the casualty crash rate is:	averaç	ge or lower t	han average	$ \overline{\mathbf{Z}} $
	a little	higher than	average	
	signific	cantly higher	r than average	
Note: Care should be exercised when using historical crash rate data occurred whilst the road is in its current state, e.g. if an intersection hause crash data from the period following these changes.	. Only use r	elevant data p nafised or a roa	ertaining to crashes ad recently reconstru	that have cted, only
19. TRAFFIC SIGNALS/ROUNDABOUTS				
Are there any traffic signals or roundabouts along this roa	d section	NO	✓ YES	
FORM F1: QLIMITS Field Data Form				3

Detail Report Page 1 of 3

Speed Limit Review – Queensland (SLR-QLD) Detailed Assessment Report

Background Information

Recommended Speed Limit:

Analysed By: Stuart Harvey

User Reference: Cherryfield Road, Rev. 1

Road Name: Cherryfield Road.

Road Location: Johnson Road to Glover Street.

Suburb: Gracemere.

GPS Start Point: 150.449, -23.458. GPS Finish Point: 150.453, -23.465.

TMR Road Number.

Local Government: 258, Rockhampton Regional Council

Main Roads District: 6, Central

The need to review the speed limit on this road has

occurred due to altered speed environment.

The length of the road section being assessed is 0.85 km

AADT on this road section is 843 vpd The existing speed limit is 80 km/h.

Adjacent Speed Zones

Approach 1: 60 km/h - Johnson Road Approach 2: 80 km/h - Cherryfield Road

Stage 1: Road function

This section of Cherryfield Road being assessed is located in a urban fringe area.

The road type is: Trunk Collector Roads and Collector Roads.

The Typical Speed Limit is: 60 km/h.

The Existing Speed Limit does not equal the Typical Speed Limit

Stage 2: Prevailing Traffic speed

Sample data on 9258 vehicles was analysed using "

The upper limit of 15 km/h pace is 72

The mean speed is 63 km/h

The 85th percentile speed is 76 km/h

Hence, the prevailing traffic speed data does not correlate with the existing Speed Limit

Stage 3: QLIMITS

The suggested speed limit based on the speed environment analysis was 60 km/h after allowing for site specific issues.

Additional issues considered:

- The upper limit of pace speed of 72 km/h is significantly higher than the recommended speed limit of 60 km/h. This represents a significant difference between the current behaviour of drivers and the recommended limit. Further investigation should be undertaken.
- Speed environment was assessed (Stage 3 was completed). Answers to the Speed Environment questions were as follows:
 - · Has a comprehensive road safety audit been completed? NO
 - Did the road safety audit highlight deficiencies that have not been corrected? NO
 - Was the road safety audit conducted more than 3 years ago? NO

http://www.qlimits.com.au/member/IndividualDetailReport.aspx?id=3736

14/05/2014

Detail Report Page 2 of 3

- Is there a concern for pedestrian or cyclist safety along the road segment? NO
 Are there high risk intersections in the road segment? NO

Frequency of Roadside Accesses

	Type of access	Number		
A	Residences, small commercial establishments, small public buildings and other units which generate light and/or occasional activity. (The weighting for this type of access is 1).			
В	Average commercial establishment, local schools, caravan parks, light industries, public buildings and units generating activity which is either. 1. Continuous light. 2. Moderate at certain times, such as commuting hours. 3. Substantial at infrequent intervals.	0		
	(The weighting for this type of access is 2).			
С	Heavy industry, schools, shopping centres and other units generating continuous moderate activity or substantial activity at certain regular times. (The weighting for this type of access is 3).	0		
a	Large shopping centres and other units generating substantial and continuous activity. Some large industries which are tourist attractions or for some other reason generate substantial traffic volumes would be included in this activity. (The weighting for this type of access is 4).			
E	Unsignalised intersecting roads of substantially lesser importance than the road being assessed, or intersecting roads where side traffic and turning movements have little effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 1).	5		
F	Unsignalised intersecting roads of lesser importance than the road being assessed but where the side road traffic and turning movements are such that the intersection has appreciable effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 2).	1		
G	Unsignalised intersecting roads of comparable or greater significance than the road being assessed. Intersections which have pronounced effect on the traffic flow pattern of the road being considered. (The weighting for this type of access is 3).	0		
н	Roundabouts and signalised intersecting roads. (The weighting for this type of access is 3).	0		
	Average number of accesses per 100 m	2.82		

Road Cross Section

The road is Undivided

Function of Road

The road is primarily used for Access to abutting properties (Traffic carrying)

Low Speed Area

There is no reason why this should be a low speed area.

Stage 4: Speed correlation check & recommendations

The speed limit based on road function is 60 km/h.

http://www.qlimits.com.au/member/IndividualDetailReport.aspx?id=3736

14/05/2014

Detail Report Page 3 of 3

The speed limit suggested by current speed data is 70 km/h. The speed limit suggested by the speed environment (QLIMITS) is 60 km/h.

Recommendations and authorisation

THE RECOMMENDED SPEED LIMIT IS 60 km/h

http://www.qlimits.com.au/member/IndividualDetailReport.aspx?id=3736

14/05/2014

	FORM F3 CHECKLIST FOR RE	VIEW OF EXISTIN	IG SPEED LIMIT		
Not required for se	tting speed limits on roads in rural residential	areas. See MUTCD Pa	art 4 Section 3.4,		
LOCATION IDE	ENTIFICATION				
Road Owner:	☐ MRD	District Number: 6 Central			
	■ LGA	21370 101 1101100	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	200				
LGA Number:	258	LGA Name:	Rockhampton Regio	nal Council	
Town/City: Gracemere		Suburb:	Suburb: Gracemere		
	Cherryfield Road		Johnson Road to Gio	over St	
		1,000,000,000,000,000	PROPERTY OF THE PROPERTY OF TH	A*************************************	
Road Number:	006354				
Road Segment					
	Location	Chainage	GPS Co	GPS Coordinates	
	or Reference Point	or Distance	(decimal degrees)		
			Latitude	Longitude	
Start	Johnson Road Intersection		150.449	-23.458	
End	Glover St Intersection		150,453	-23.465	
	Limit: 80 km/h				
REVIEWING O	FFICER				
Name:	Stuart Harvey				
Employer:	Rockhampton Regional Council				
Address:	P.O. BOX 1860, Rockhampton City, 4700)			
Phone No:	(07) 49368914				
Date of Review	, 14/05/14				
Have you unde	rtaken appropriate training in the app	lication of Part 4?	Yes	No 🗆	
Notes:					
1. The number	ering convention used for the Checklist coincid	les with that used in Mi	UTCD Part 4 Figure F	1.	
		want and the later the			

- References to Figures and Tables are to those in Part 4 of the Manual of Uniform Traffic Control Devices.
- 3. Mark following selections with a tick.

SPEED LIMIT REVIEW	Stage 2 – Prevailing Vehicle Speed Analysis
1. The need to review the speed limit on this	6. Prevailing Vehicle Speed Data
road has occurred due to:	(a) Collected using:
☐ General Limit no longer applicable	☐ Manual methods
 Altered speed environment 	Automatic device (specify type)
☐ Evidence of speed limit/vehicle speed discrepancies	METROCOUNT ROAD COUNTER
☐ Need to adjust speed zone lengths	Other (specify)
 Community request 	***************************************
Other (specify)	(b) Collected according to guidelines:
	Specified in Appendix G
Stage 1 - Road Function Analysis	Other (specify) METROCOUNT REPORT SOFTWARE
2. Road Function	
If the road is in a rural environment, go to	(c) Analysed using:
Step 3.	☐ EsdeeMan version 3.0
For a road in an urban environment, the function of the road has been identified as:	Manual methods
Access / Local street	Other (specify) METROCOUNT REPORT SOFTWARE
☐ Collector street	
☐ Trunk collector road	(0.2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
☐ Sub-arterial road	(d) Results from analysis:
☐ Arterial road	No. of vehicles in sample 9258
☐ Controlled access arterial road, Freeway	Upper limit of 15 km/h pace: .72 km/h
If rural, go to Step 3	% vehicles in the 15 km/h pace: 47.25%
3. From Table B1 (Urban) or B2 (Rural), the	85th %ile speed: 75.5 km/h
typical speed limit is: 60km/h	Mean speed: 63
4. The existing speed limit equals the typical	Speed data correlates with existing speed limit? (see Table C1)
speed limit?	☐ Yes - go to Step 11
Yes - go to Step 6	■ No - go to Step 7a
■ No - go to Step 5	7a. From Table C2,
Is it proposed to alter the road function to align the typical speed limit with the existing	Suggested speed limit is: 70 km/h
speed limit speed?	Go to Step 8.
Yes - go to Step 18	Stage 3 – Speed Environment Analysis
■ No - go to Step 6	8. QLIMITS
	Contraction of the Contraction o
	(a) Field Data Form F1 (Appendix D):
	Completed
	Copy attached
FORM F3: Checklist for review of existing speed limit	2

(b) Analysis Report Form F2 (Appendix D):	(d) Is casualty crash rate / potential risk factor high?
☐ Completed	Yes - go to Step 12
Copy attached	No - Figure F1 leads to:
(c) QLIMITS recommended speed limit	Step 19
60 km/h	■ Step 13
(d) QLIMITS flagged considerations?	12. Crash investigation / road safety review or
□ No	audit conducted by:
Yes (see Report Form F2 (Appendix D))	Name:
Stage 4 - Correlation Check	Date:
9. Correlation check	File/Report No:
(a) Outputs from each stage are:	Go to Step 15
Stage 1	13. Has the review process suggested an
Typical speed limit 59 km/h	increase in the speed limit?
Stage 2	☐ Yes - go to Step 14
From Table C2	■ No - go to Step 23
Suggested speed limit .70 km/h Stage 3	14. Has a safety review (or road safety audit) identified any risk factors?
QLIMITS recommendation 60 km/h	☐ Yes - go to Step 16
(b) Is there a correlation between two of the	☐ No - go to Step 23
three outputs from Stages 1, 2 and 3 above?	15. Has a crash investigation or safety review
■ Yes 60 km/h - go to Step 11	identified causal or risk factors?
☐ No - go to Step 10	Yes - go to Step 16
10. Have all data, QLIMITS input/output and	☐ No - go to Step 22
road function been checked?	16. Is treatment feasible?
☐ No - go to Step 2	Yes - go to Step 17
Yes - go to Step 24	□ No - go to Step 21
Other Criteria	17. (From Step 16)
11. (From Steps 7 and 9)	Proposed treatments / works have been
(a) The calculated casualty crash rate is:	listed for the financial year
.0 * 10 ⁴ ERUs per 10 ⁸ VKT	Go to Step 20
(4)	18. (From Step 5)
(b) The typical casualty crash rates are:	See Figure F1, Note 18
Average: 1956.5 * 104 ERUs per 108 VKT	Go to Step 17
Critical: .2234.7 * 10 ⁴ ERUs per 10 ⁶ VKT	19. (From Step 11 via Step 7)
(c) The casualty crash rate / potential risk factor	Retain existing limit - go to Step 25
is comparatively:	 Consider whether an interim alteration to the speed limit is necessary.
Low (=< Average) Medium (Between average and critical)	Go to Step 25
High (>= Critical)	and the same and
250.00 (70.00) (540.00)	I .
FORM F3: Checklist for review of existing speed limit	3

Page (71)

21. (From Step 16)	(c) Has information provided by the committee
Subject to Figure F1 (Note 21), it is	assisted in determining an appropriate limit?
considered appropriate to:	☐ Yes - it iskm/h
☐ Increase	Go to Step 25
☐ Decrease	 No - (a) I concur the following speed
the existing speed limit bykm/h	limit for the section of road under
Go to Step 25	consideration: km/h
22. (From Step 15)	Concurred by (TAC Chair):
Retain existing speed limit with enhanced enforcement.	Date:
Go to Step 25	Date:
23. (From Step 13 or 14)	25. Recommendation by Engineer
Adopt speed limit noted at 9(b).	Following the completion of this checklist,
Go to Step 25	which documents the process for the review of speed limits according to Figure F1 of
24. (From Step 10)	Part 4 of the MUTCD, I submit the following:
The review of speed limits according to the	Recommended Speed Limit: 50 km/h
process described in Figure F1 has failed to	Recommended by:
determine an appropriate speed limit. Action	Name:
taken is as follows:	Position:
 (a) The Checklist, together with all relevant data and information, has been referred 	
to the responsible officer for	RPEQ No:
consideration.	Date:
Referred to:	Authorisation for Deliberation
By:	☐ The recommended speed limit is approved
RPEQ No:	for deliberation in the SMC.
Date:	☐ The recommended speed limit is not
The responsible officer now has responsibility	approved for deliberation by the SMC for the
for providing recommendations at Step 25.	following reasons:
(b) Input to the review requested from the	
Traffic Advisory Committee (TAC)	
Committee meeting of/ offered	
the following information:	***************************************

	☐ The alternative speed limit to be discussed
	or retained is: km/h
	Reasons for the alternative speed limit are:
and/or advised a preferred speed limit of:	***************************************
km/h	
2000-000-000-000	***************************************

FORM F3: Checklist for review of existing speed limit.

Authorised by:	
Position:	
(Responsible officer/Regional Director)	Reasons for the alternative speed limit are:
Date:	
Endorsement by Speed Management Committee (SMC)	v
☐ The recommended speed limit has endorsed by the SMC.	been Authorised by:
☐ The recommended speed limit has	not been Position:
endorsed by the SMC and will now back to the responsible officer for re	(Parnancible officer/Pagional Director)
the Speed Limit Review Panel (SLF	
Recommendation by Speed Limit Re-	view Form M994 or equivalent local government Form completed by authorising officer and copy filed with this Checklist.
Following the deliberation by the SLRP, chairperson will forward its recommendation	ation to compromise the legality of the Speed Limit.)
the responsible officer for consideration	20. Neview / Evaluation
Recommended speed limit:	TYTH the existing speed little be altered?
Recommended by:	Yes - program assessment to occur 1-4 weeks after installation.
Name:	No - program for review in 5 years or
(Chairperson SLRP)	names if sometend
Position:	Where Steps 21, 22 or 23 have indicated
RPEQ No:	that enhanced enforcement is required,
Date:	complete the following.
Authorisation for Installation	Enhanced enforcement of this site by QPS has been requested by reporting the outcome for this speed limit review to:
☐ The recommended speed limit is au	thorised D Local TAC (Traffic Advisory Committee)
for Installation according to the prov MUTCD Part 1, Appendix C.	Regional Speed Management Advisory
☐ The recommended speed limit is no	T Regional OPS Traffic Co-ordinator
authorised for the following reasons	Reported by:
***************************************	Position:
***************************************	mmmon = 1
***************************************	The state of the s
	12.2
·····	Other (specify)

FORM F3: Checklist for review of existing speed limit

SPEED LIMIT REVIEWS -LUCAS STREET AND CHERRYFIELD ROAD

3E Committee Minutes 3 April 2014

Meeting Date: 2 July 2014

Attachment No: 7



Minutes

Rockhampton Region 3E Committee meeting, Operational April 2014

Date	Thursday, 3 April 2014	Time	10:40am - 11:40
Place	DTMR Office, 31 Knight Str	eet, Ground Floor Co	onference Room
Chair	Jeff Van Nunen	Minute take	r Kath Ferguson
Attende	ees		
DTMR	Jeff Van Nunen (JVN)	QPS	Ewan Findlater (EF)
DTMR	Colin Edmonston (CJE)	LSC	Deanna Robbie (DR)
DTMR	Simon Ross (SPR)	RRC	Stuart Harvey (SH)
DTMR	Pam Thomas (PT)	RRC	Corrie Claassen (CC)

Safety 2 minutes

· Jeff went through the evacuation procedure and building amenities

Apologies 2 minutes

- . DTMR Dave Grosse, Tracy Davis
- QPS Ray Pimm
- · RRC Russell Collins, Ruwan Weerakoon, Jonathan Herron
- · LSC Phil McKone, Lorna Oliver

Approval of minutes from last meeting

2 minutes

· Approved via email

Outstanding actions from last meeting

5 minutes

Officer	Action
Deanne Robbie (LSC)	DR: Barmaryee Road, Yeppoon: a request has been received to move 80km/hr zone 200m so that the new Rail Trail is within the 60km/hr zone. ACTION: DR to send an email to committee members to request endorsement this change Update: As this speed zone change was discussed at the last meeting, LSC has implemented this change Close out

Department of Transport and Main Roads

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Officer	Action
Jeff Van Nunen (DTMR)	CJE: A person contacted CJE regarding Emmaus Collage, raising concerns regarding increase in students next year and currently traffic queuing up Yaamba Road. This has previously been discussed. If the school does not implement staggered finish times, there is nothing else that can be done. ACTION: JVN to give a copy to CJE of previous correspondence Update 3/04/14: JVN completed this action. Close out. CJE: The school has contacted CJE regarding capacity of school next year due to year 7 students starting at the school. ACTION: CJE to organise a follow-up meeting with the school

Agenda Item 1 Speed Management

10 minutes

Action from 04/12/13; Funding for "50 in My Street" Wheelie Bin stickers: ACTION: Request
for members to email Lorna a suggestion of any streets for these stickers. Update 6/3/14; RRC
have not ordered the stickers yet. CJE to discuss with LO to progress and handover to SH.
Update: SH has investigated where this is at and RRC will purchase the stickers shortly and
20% of the purchase will go to Livingstone Shire for their distribution. RRC will be contacting
residents of the nominated streets to see if they want to be involved. Close out

Agenda Item 2 Speed Limit Reviews

5 minutes

- Svendsen Road, Zilzie:
 - Background: RRC recommends changing current 80km/h & 100 km/h speed zones to 80km/h from Seaspray residential development to Barrier Reef Drive, Draft Speed Limit Review submitted no crashes identified. EF identified 5 crashes between 2008 and now, speed wasn't a contributing factor in any of them. JVN: Advised to not put a lot of emphasis on 85° percentile (existing speed) as the latest studies show that reducing speed regardless does improve safety. The 100km is too short and DTMR supports reducing the speed to 80km. ACTION: LO to progress Update: Progress to next meeting
- · Dairy Inn & Mt Chalmers Roads, Cawarral:
 - Background: Residents seeking reduction of speed limit from 80km/hr to 60km/hr. Draft Speed Limit Review submitted. ACTION: LO to progress Update: Discussion on recent traffic crash on this road. Progress to next meeting
- Park Street, Yeppoon:
 - Background: Proposal by RRC to reduce speed limit to 40km/h from the intersection of Tanby Road/Park Street to the intersection of James Street/Braithwaite Street.
 Committee decision: supports this proposal. ACTION: LO will provide to the committee members the QLimits details and proposed signage plan. Update: Progress to next meeting

Page 2 of 6

· Gracemere Overpass Road:

Background: Letter received from the Gracemere Industrial Committee requesting an increase from 60km/hr to 80km/hr. RRC has put the data through QLimits and recommendation is 80km/hr. SH to investigate why it was designed at 60km/hr. ACTION: If no issues come out of investigation into history of the current speed zone, SH will provide the new signage layout to committee members via email for endorsement. Update 3/04/14: SH provided a QLimits assessment which nominated a speed of 80km/hr. Charlie Lloyd-Jones (former DTMR project manager) advised SH that this section has been designed at 70km/hr with a posted speed of 60km/hr due to use by Road Trains. CJE advises this issue was raised at a recent community meeting. Committee Decision: Due to the use of the road by road trains and the speed the road was designed at, the speed zone should remain at 60km/hr. Close out ACTION: Joint response by DTMR & RRC to be arranged by CJE & SH

Agenda item 3 Media Profile

5 minutes

- Central Region Road Safety Week is now complete. Discussion on the police activity. EF
 advised that QPS will have to wait several months to see what the flow-on effects of the
 operation are. CJE advised that DTMR received positive media during this week. During the
 Trackie Reviver events a survey was provided to drivers and CJE is working on pulling this
 information together.
- Fatality Free Friday will be on the last Friday in May 2014. CJE is planning to make this a
 week long event.

Agenda item 4 Use of Webcrash for Blackspot Nomination

5 minutes

- Background: DTMR Blackspot Nominations rely on data outputs from Webcrash (previous 5 years required) however, Webcrash has not been updated since December 2009. Can DTMR provide guidance on the best way to proceed and provide advice on what crash data will be accepted? ACTION: This agenda item to remain and CJE will keep committee updated.
- Road Safety Interactive Map (Mapping tool) is now in use and CJE has held training workshops ACTION: For the next meeting, CJE and LO will develop a profile for each Council using the Road Safety Interactive Mapping tool. Update: Progress to next meeting.
- SH to give some information to DR how to use Webcrash to get the information required.
 ACTION: CJE to discuss with DTMR officer Jarrath Ford regarding upcoming training and getting Council representatives to attend. Update: This training was held and SH gave some feedback on this. Close out
- Discussion on using the Globe function in Google Earth. ACTION: CJE & JVN to work out how DTMR staff can use this and then provide the opportunity to council staff to use
- · Discussion on ARRB training ACTION: CJE to investigate

Agenda Item 5 Active Signage (flashing lights)

5 minutes

· Remove this action from the standard agenda

Page 3 of 6

Agenda item 6 Intersection of East & Fitzroy Streets

15 minutes

- Background: EF advised complaints received re: lengthy waits for traffic in East St and confusion as to who has right of way – pedestrians or vehicles.
- Undate 12/06/13: Meeting was held with DTMR and RRC representatives. Outcomes: 1.
 change phasing of northern end of East Street to allow vehicles travelling straight through to mall to begin travelling first 2. Remove right turn lane from northern end of East Street as well
 3. DTMR design to look at alignment of merge lanes onto the bridge 4. Reduce northern end of East Street to single lane from Archer Street to intersection
- Update 12/06/13: RRC consultation with property occupants has been completed. They
 suggested that DTMR look at changing lanes out of the mall: inside lane only turn right and
 outer lane through and left turn. Discussion on this suggested treatment identified issues, eg
 through lane would not line up and current traffic signal arrangement would not support this
 treatment.
- ACTION: LO to send to SPR a draft advice to councillors <u>Update 21/08/13</u>: Will be done nearer to the time of change
- ACTION: JVN to brief DTMR Design unit on alignment of merge lanes onto the bridge <u>Undate 6/3/14</u>: DTMR Design Unit are now looking at the alignment of merge lanes onto the bridge
- <u>Update 6/3/14:</u> JVN gave an update. DTMR will trial the removal of the right turn from East
 Street (north) and then follow-up with altering the traffic light phasing to release the through
 vehicles from East Street (north) a couple of seconds before the vehicles travelling from East
 Street (south). DTMR will look at options for the slip lane but no action will be taken until
 if/when RRC changes the lane arrangements in East Street (north).
- Update 3/04/14: JVN is progress this, however, he believes that before we go ahead with this
 there is a need for public consultation. ACTION: JVN to discuss with DTMR
 Communications officer.

Agenda Item 7 Grammer School, South Rockhampton – traffic behaviours during 10 minutes pickup times at Quarry Street

Background: Discussion on traffic behaviours along Quarry Street. The current arrangement
on Archer Street does not work, as the gate where the children wait does not line up with the
start of the car line queue. <u>Update 6/3/14:</u> SH has received 4 complaints regarding the
intersection of Quarry Street and Archer Street. CJE has met with the Principal of Grammer
School. The real issue is with cars queuing down Archer Street to try and turn left into Quarry
Street and blocking vehicles travelling up Archer Street. ACTION: CJE to email SH (c/c
Russell Collins) to request yellow lines to be placed on Archer Street to stop vehicles parking
on the left hand side (facing up Archer Street). **Update:** SH advised that RRC will be starting
a Road Reconstruction project in this area and he has ensured that this yellow line will be
incorporated as part of this project. Close out

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Agenda item 8 Road Safety Strategy 2012-2022

10 minutes

Impact of deanningamation of Rockhampton Regional Council & Livingstone Regional
Council. Suggested that this document incorporates both Councils. Decision: Agreement
ACTION: LO to create a draft document to present to this Committee at the next meeting
Update: Progress to next meeting

Agenda Item 9 Emu Park & Yeppoon 40km/hr signage

5 minutes

- · Emu Park signage plan
 - Committee reviewed the proposed drawing. Committee Decision: Endorse this signage plan <u>Update 4/12/13</u>: Will need be submitted to the new Council. Update; Progress to next meeting
- Yeppoon signage plan
 - LO: CR 208466 Anzac Parade 40km/h area signage plan Committee Decision: Endorse the signage plan Committee recommendation: Anzac Parade near the skate park down to Ross Creek be included in the 40km/hr area <u>Undate 4/12//3</u>: Will need be submitted to the new Council. <u>Update</u>: Progress to next meeting.

Agenda item 10 Various items for Stuart/Ruwan to progress

5 minutes

- Drop off to large culvert on Bajool-Port Alma Road: Background: RSA 3036 identified a
 drop off to a large culvert on the outside of the horizontal approach curve on Bills Road which
 is concealed from traffic. For RRC action. ACTION: SH to discuss with Jeff Carter of RRC
 Update 3/04/14: RRC rural west crew have delineated the sides of the culvert Close out
- Stay pole obstruction on Bajool-Port Alma Road: Background: RSA 3036 identified a stay
 pole obstruction on the outside of the horizontal approach curve on Bills Road. For RRC
 action. ACTION: SH to discuss with Jeff Carter of RRC Update: The curve will be
 delineated with guide posts Close out
- Locality Signs at Stanwell Weighpad: Background: Unauthorised locality signs at Stanwell
 Weighpad installed by the RRC Communications Unit. These signs will be removed as part of
 a revamp of the weighpad signage. DTMR Design insists that these signs need to be removed
 and disposed of. ACTION: SH to take back to Michael Prior of RRC to investigate and to
 provide feedback to DTMR Update: SH progressing. These locality signs have probably
 already been removed as this agenda item has been here for a while. Close out

Agenda item 11 General Business

15 minutes

SH: Speed Limit Review of Lucus Street between Johnson Road and Allen Road. QLimits
review recommends 60km/hr and SH provided signage layout plans for this change.
Discussion about the speed on Bland Street, Gracemere as well. Committee Decision:
Committee endorsed this speed change from 70km/hr to 60km/hr ACTION: CJE & SH to
organise a joint response to complainants.

Page 5 of 6

- SH: FYI: Toonda Road is currently sealed, however both approaches are gravel roads. RRC received a request for the sealed section to be signed at 50km/hr. SH reviewed RRC records and found that council proposed that this section of Toonda Road should be posted at 60km/hr as a consequence of the Limestone Operation. SH to raise works order to install 60km/hr signage.
- CJE: Received a request to review the location of the 50km/hr sign on the Gavial-Gracemere Road near Conaghan Street due to a crest – move the sign it to the other side of the crest.
 Committee Decision: Leave the sign in its current location. ACTION: CJE to advise complainant
- CJE: Has been in discussions with Karen Peut of DTMR about the progress of the Bridge upgrade finding. Karen advised that a meeting with Federal officers regarding this funding will be held tomorrow and Karen will let CJE know of the outcomes.
- . CC: FYI: QR will be working on the Glenmore Road crossing on 13 April 2014.
- PT: complaint received regarding School Zone in the St Ursula's College, Yeppoon. DR advised that LSC has already reviewed this site and there is sufficient signage at this location.
 ACTION: CJE to advise the complainant

Date of next meeting

2 minutes

The next meeting will take place on Thursday 1 May 2014 at the DTMR North Rockhampton office. It will be a Strategic focus meeting

@The State of Queensland, Department of Transport and Main Roads

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8.3 POTENTIAL TRAFFIC MANAGEMENT DEVICES IN FOSTER STREET, DOUGLAS STREET AND MIDDLE ROAD GRACEMERE

File No: 9718

Attachments: 1. Community Engagement Report - Potential

Gracemere LATM

Authorising Officer: Martin Crow - Manager Engineering Services

Robert Holmes - General Manager Regional Services

Author: Bruce Russell - Senior Infrastructure Planning Engineer

Ruwan Weerakoon - Senior Infrastructure Planning

Engineer

SUMMARY

In May 2013 Council resolved to consult with residents and property owners in the rural residential area to the west of the Gracemere Industrial Area about the need for Local Area Traffic Management and possible Local Area Traffic Management treatments and locations of these treatments. This report presents the findings of this consultation and gives recommendations on the installation of Local Area Traffic Management devices.

OFFICER'S RECOMMENDATION

- 1. THAT Council receive the report titled *Potential Traffic Management Devices in Foster Street, Douglas Street and Middle Road Gracemere* and the attached *Community Engagement Report.*
- THAT no traffic management devices be installed at Foster Street, Douglas Street or Middle Road (between Oxley Street and Stewart Street) as the 75% support required for a Local Area Traffic Management (LATM) device was not reached from the community survey.
- 3. That Council continue to regularly monitor traffic for possible speed violations and heavy vehicle misuses and notify the Queensland Police and the Department of Transport and Main Roads, as necessary, to take enforcement action.

COMMENTARY

Following the implementation of new multi-combination vehicle (MCV) routes in the area, a number of community complaints have been received from residents about MCV route violations at the western end of Foster Street between Oxley Street and Stewart Street. In May 2013 Council resolved to undertake community engagement regarding the possible implementation of Local Area Traffic Management (LATM) devices.

The objective of the engagement was to fully understand the concerns of residents and property owners about the traffic in the area and determine whether they saw a need for the installation of traffic management devices. Council sought responses from the owners and tenants of 31 properties on Douglas Street, Middle Road, and Foster Street. Figure 1 below shows the properties that were targeted as part of the consultation.



Figure 1: Map of consultation area.

A letter was sent to residents and property owners on 17 March 2014 outlining the issue and inviting them to book in a time for a one-on-one consultation. Only 14 people representing 16 properties took up that opportunity in the first instance. Council sent follow up letters and hard copy surveys to those remaining residents and owners in mid-April and follow up calls were made. Many of the residents contacted during the follow up remarked they did not respond because they had no real issues. While most were happy to talk, their responses were considerably varied. In total, 19 respondents completed the survey through one on one interviews, 4 completed the survey over the phone and 3 completed the survey in paper based copy.

The total response for the consultation was 26 respondents out of 31 which represent an 83.8% response rate. Of those who responded, only 42.3% of respondents indicated that the installation of traffic management devices were the best solution. This is significantly less than the 75% support required for Local Area Traffic Management devices as per Council's Local Area Traffic Management Procedure (No. PRO.12.2).

Of the responses received by Council, there was not a general consensus on the activities that demonstrated the need for LATM devices. The three main activities that concerned residents were speeding vehicles, movements from B-Doubles or larger and movements from semi-trailers or smaller heavy vehicles. Figure 2 below shows the spread of responses from all respondents regarding the activities that, in their opinion, demonstrate the need for LATM devices.

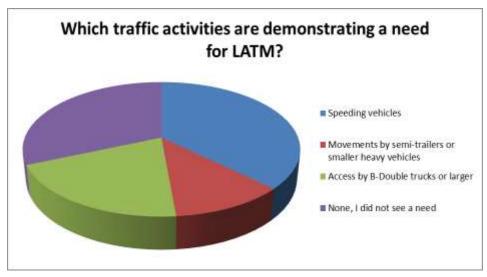


Figure 2: Respondents responses regarding activities demonstrating the need for LATM

Speeding Vehicles

Speeding vehicles was the most prominent traffic issue identified by respondents. Traffic counters have been installed several times in Foster Street, Douglas Street and Middle Road to gain a reliable measure of traffic volumes and speeds in the area. A summary of the data collected is found in Table 1.

Road	Count Location	Count Date	Posted Speed (km/h)	% Vehicles Exceeding 10% of the Speed limit	85 th % Speed (km/h)
Foster St	Opposite 63 Foster St	7/05/14 – 13/06/14	60	29.2%	70.9
Douglas St	Opposite 53 Douglas St	21/05/14 – 13/06/14	60	26.1%	70.2
Middle Rd	Opposite 217 Middle Rd	21/05/14 – 13/06/14	60	44.7%	74.5

Table 1: Speed Data for Foster St, Douglas St and Middle Road

A percentage of vehicles exceeding the speed limit greater than 20% would be considered as high in a built-up urban environment, however in a rural or industrial area this is not considered excessive. Figure 3 compares the percentage of vehicles exceeding the speed limit on Foster Street, Douglas Street and Middle Road with 15 similar rural and industrial type roads in the region. The figure shows Foster Street and Douglas Street are slightly less than the average recorded for the region. Middle Road is slightly higher than the average however this is believed to be associated with the previous reduction in speed limit from 80 km/hr. The speed limit and speeding issues in Middle Road is also discussed in a separate Road Safety Audit report to the Infrastructure Committee.

The reasons for exceedance of the speed limit in these rural and industrial areas is mainly due to prevailing conditions of low traffic volumes, small numbers of property accesses, generally good road geometry and low levels of policing.

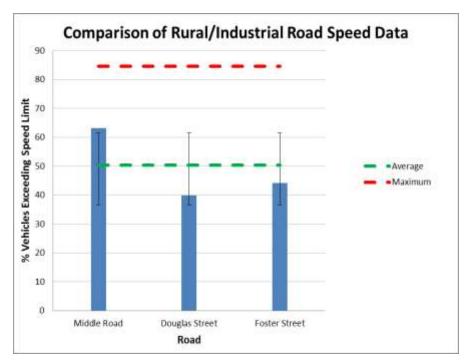


Figure 3: Speed data comparison for rural/ industrial roads in Rockhampton Region against surveyed roads.

Council receives a large number of customer requests relating to speeding vehicles every year. As speeding is a widespread issue, roads are generally monitored after a complaint and action is not taken until several complaints are made from residents.

The speed limit in Stewart Street was raised by several respondents in the survey as seen in the attached consultation report. There was a request to decrease the speed along Stewart Street to 60km/hr or 70km/hr. This matter has been reviewed as a part of the separate Road Safety Audit Report.

Access by B-Doubles or Larger

Since the alteration of the multi-combination vehicle routes in the Gracemere Industrial Area in May 2013, Council have received complaints that heavy vehicles are still disobeying the new routes and continuing to use Foster Street, Douglas Street and Middle Road as a multi-combination vehicle route. Part of the traffic data collected during counts includes vehicle class. This allows analysis of the percentage of B-Double or longer vehicles on these roads. This data is summarised in Table 2 below and it is evident that the volume of B-Double and longer vehicles using these roads is very low.

Road Count Location		Count Date	% B-Double and Larger Vehicles	
Foster St	Opposite 63	7/05/14 –	0.4%	
roster St	Foster St	13/06/14	0.470	
Douglas St	Opposite 53	21/05/14 –	0%	
Douglas St	Douglas St	13/06/14	U%	
Middle Dd	Opposite 217	21/05/14 –	0.039/	
Middle Rd	Middle Rd	13/06/14	0.02%	

Table 2: Percentage of B-Double and Larger Vehicles

There is a common public misconception that a truck with a short trailer, known as a dog, is a B-double. The general rule enforced by Department of Transport and Main Roads is any vehicle larger than a 19m semi-trailer is required to adhere to the multi-combination vehicle routes. There are cases where heavy vehicles larger than 19m can operate outside a multi-combination route however these are usually only if permitted by the road authority.

Movements of Semi-Trailers or Smaller Heavy Vehicles

Several respondents stated that a contributing issue to the need for LATM devices is the movement of semi-trailer and smaller heavy vehicles. Of those surveyed in the May consultations, one resident from Douglas Street, one resident from Stewart Street and two residents from Foster Street claimed that movements by semi-trailers or smaller heavy vehicles were a contributing factor to their request for LATM devices.

The Guideline for Multi-Combination Vehicles in Queensland (Version 11 July 2013) states that vehicles up to 19m are allowed to travel on any road in Queensland. Due to the close proximity to the Gracemere Industrial Area and rural nature of the area, heavy vehicles (up to 19m long) are more prevalent in Foster Street, Douglas Street and Middle Road.

Table 3 shows the proportion of commercial vehicles on each street, from the recent traffic counts performed in May-June.

Road	Count Location	Count Date	AADT	% Commercial Vehicles	
Foster St	Opposite 63	7/05/14 –	104.3	29.70%	
	Foster St	13/06/14			
Douglas St	Opposite 53	21/05/14 –	76.8	9.10%	
Douglas of	Douglas St	13/06/14	70.0	3.1070	
Middle Rd	Opposite 217	21/05/14 –	227.4	4.000/	
ivildale Ru	Middle Rd	13/06/14	227.1	4.90%	

Table 3: Percentage of Commercial Vehicles (Including B-Double and Larger Vehicles)

These values are not significantly different from other rural roads or roads adjacent to an industrial area in the Rockhampton Region.

Installation of Local Area Traffic Management Devices

As part of the Council resolution from May 2013 it was stipulated that Council prepare preliminary design and layouts for potential traffic management devices to reduce speeds and restrict any access by B-Double or longer vehicle configurations. Consultation with residents asked several questions about the respondent's opinion of the purpose of traffic calming devices in the Gracemere area.

Survey participants were asked "Should a traffic management device be installed in your street the aim will be to restrict access by B-Double or larger vehicle configurations. Do you believe these vehicles are currently causing problems in your street?" Table 4 shows the responses to this question, and it is apparent that B-Double or larger vehicle configurations are not seen as the main cause of problems in each street.

This data combined with the data shown in Figure 2 indicate that majority of residents either do not see a need for LATM devises or see a need for LATM devices to slow passenger vehicles and restrict heavy vehicles up to 19m long.

Response	Response %	Response Count
Yes, they are the only types	0.0%	0
No, there is not a problem	61.5%	16
Yes, however other types of vehicles are causing problems too	26.9%	7
No, other types of vehicles are causing problems	11.5%	3

Table 4: Response to Question: "Should a traffic management device be installed in your street the aim will be to restrict access by B-Double or larger vehicle configurations. Do you believe these vehicles are currently causing problems in your street?"

When questioned about a possible location for traffic management devices in Foster Street, Douglas Street and Middle Road, 56.5% of respondents thought it should be installed closer to Stewart Street and 30.4% stated that LATM devices should be located closer to Oxley Street. 13% of respondents thought any LATM devices constructed should align with a property side boundary, however 0% of respondents stated that they would be happy to have a LATM device at the front of their property.

LATM devices installed to address the issue of speeding vehicles in Foster Street, Douglas Street and Middle Road would need to allow vehicles of up to 19m in length to travel along these roads. 46.2% of respondents indicated that traffic management devices may impact vehicles requiring access to properties in these streets. Furthermore, in line with the Department of Transport and Main Roads *Manual of Uniform Traffic Control Devices* (MUTCD), speed humps should not be installed in isolation but at a spacing of 80m to 120m.

Foster Street, Douglas Street and Middle Road all have a minimum seal and a deteriorating road condition. Due to these road conditions, the installation of any temporary traffic calming devices would prove problematic as the hold down bolts used to position the speed humps are not likely to grip into the road base. As a result, concrete footings would be required to be constructed before any temporary speed humps can be installed. This is likely to add significant labour and materials to the construction costs.

Recommendation

Council officers recommend that no further action be taken on the matter of LATM devices at this time. However, regular monitoring of heavy vehicle movements and speed should continue with violations reported to the relevant authority for enforcement action.

Overall, the percentage of B-Double or longer vehicles violating the MCV routes is less than 1% and the percentage of commercial vehicles on these streets is no greater than would be expected in any rural or industrial area.

The occurrence of vehicles exceeding the speed limit in this area is below the average percentage recorded for similar road types in the Rockhampton Region. The average volumes of traffic on Foster Street, Douglas Street and Middle Road are low at 104, 77 and 227 vehicles per day respectively.

In the comments from the public consultation, several respondents suggested that the money allocated to LATM devices would be better spent on improving the quality of the roads in the area.

BACKGROUND

Foster Street and Douglas Street conform approximately to the *Capricorn Municipal Development Guidelines* (CMDG) standard for a rural access standard. This road configuration has a 6.5m pavement width and is not required to be sealed under CMDG standards. This is due to the low volumes, of less than 150 vehicles per day, on these streets.

Foster Street and Douglas Street were sealed under the former Fitzroy Shire Council after 2003 as a maintenance response to several dust and corrugation complaints. Foster Street experiences a daily traffic volume of 104 vehicles per day with a peak hour volume of 9 vehicles per hour and Douglas Street has a daily traffic volume of 77 vehicles per day with a peak hour volume of 7 vehicles per hour.

Middle Road conforms approximately to a Rural Minor Collector standard under the CMDG guidelines and has a 6.0m seal and approximately an 8m pavement width. Middle Road has a daily traffic volume of 227 vehicles per day with a peak hour volume of 20 vehicles per hour.

The Gracemere Overpass project was opened on the 27 May 2013, providing a Multi-combination vehicle route over the Capricorn Highway. Earlier in May 2013 Council resolved to alter the multi-combination vehicle routes in the Gracemere Industrial Area after the completion of the Gracemere Overpass project to remove the existing B-double routes in Foster Street and Douglas Street between Oxley Street and Stewart Street.

In October 2013, a series of signs were installed at the end of the MCV routes indicating the end of the B-Double or Road Train Route. Since then Council has continued to receive complaints regarding heavy vehicles disobeying the proposed MCV routes and further reports of speeding vehicles.

The Manual of Uniform Traffic Control Devices (MUTCD) Part 15 Section 3.2 indicates that Local Area Traffic Management Schemes can only be applied where the speed limit is 50 km/h or less and are generally only applied in urban areas. The 50 km/h threshold is likely to relate to potential damage to vehicles at higher speeds. Local Area Traffic Management Schemes can include speed humps, spaced at between 80 and 120 metres, and horizontal displacement treatments such as chicanes or slow points spaced at around 300 metres. In all instances, these traffic calming devices need to be lit and appropriately signed.

PREVIOUS DECISIONS

As a result of the Gracemere Industrial Area Traffic Survey, on 12 May 2013 Council made a resolution on the following matters:

- 1. THAT Council adopt the proposed multi-combination vehicle routes identified as Option A in the Gracemere Industrial Area Truck and Heavy Vehicle Survey and attached to this report.
- 2. THAT Council adopt the proposed speed limits in the Gracemere Industrial Area Truck and Heavy Vehicle Survey and attached to this report, with localised speed zones around any approved traffic management devices with the exception of Stewart Street and a further report be presented.
- 3. THAT Council include the construction of a crushed granite pedestrian pathway on the eastern side of Stewart Street from Somerset Road to Boongary Road at an estimated cost of \$75,000 in the 2013-14 capital budget.
- 4. THAT Council prepare preliminary design and conceptual layouts of potential traffic management devices at the western end of Foster Street, Douglas Street and Middle Road, that seek to reduce speeds and restrict any access by B-Double or longer vehicle configurations.
- 5. THAT Council consult with property owners on the need and preferred location of these devices, on the basis of the preliminary design and conceptual layouts.
- 6. THAT Council allocate \$150,000 in its 2013-14 capital budget for works associated with this matter.
- 7. THAT a review of the stop signs of Macquarie Street and Middle Road be conducted.

BUDGET IMPLICATIONS

After the Gracemere Industrial Area Traffic Survey report was presented to council, a Council resolution was moved to allocate \$150,000 in the 2013-14 capital budget for works associated with traffic management devices in the western end of Foster Street, Douglas Street and Middle Road.

The cost of the installation of traffic management devices can range from \$15,000 to more than \$100,000 depending of the treatment type, available lighting and other design consideration.

RISK ASSESSMENT

There is a risk that any one of the safety issues identified in the public consultation could cause an incident.

CORPORATE/OPERATIONAL PLAN

3.1.1 Consult on, advocate, plan, deliver and maintain a range of safe urban and rural public infrastructure appropriate to the Region's needs, both present and into the future.

CONCLUSION

Foster Street, Douglas Street and Middle Road have relatively low levels of traffic of between 75 and 230 vehicles per day. Between Oxley and Stewart Street they generally function as rural access roads.

The public consultation has shown there is a wide variation of views on heavy vehicles and speeding within the area bounded by Stewart Street, Somerset Road, Oxley Street and Middle Road. The results indicate there is insufficient support for the installation of traffic management devices to restrict B-Doubles and larger vehicles. There was some agreement the prevailing traffic speed is of concern, however the figures do not indicate the problem is sufficiently higher than the average exceedance elsewhere to warrant LATM installations in the three rural access roads at this time.

The recommendations are now presented to Council for consideration and adoption.

POTENTIAL TRAFFIC MANAGEMENT DEVICES IN FOSTER STREET, DOUGLAS STREET AND MIDDLE ROAD GRACEMERE

Community Engagement Report - Potential Gracemere LATM

Meeting Date: 2 July 2014

Attachment No: 1



Potential Traffic Management Devices in Gracemere

Community Engagement Report

May 2014

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Background

Rockhampton Regional Council has recently undertaken community consultation with property owners on Foster Street, Douglas Street, and Middle Road, Gracemere in regards to potential installation of Traffic Management Devices in their streets. The intent of these devices is to reduce speeds and physically restrict access by B-Doubles or longer vehicle configurations in the above mentioned streets. Community consultation was undertaken as a result of a Council resolution on 12 May 2013 depicting:

THAT Council prepare preliminary design and conceptual layouts of potential traffic management devices at the western end of Foster Street, Douglas Street and Middle Road, that seek to reduce speeds and restrict any access by B-Double or longer vehicle configurations.

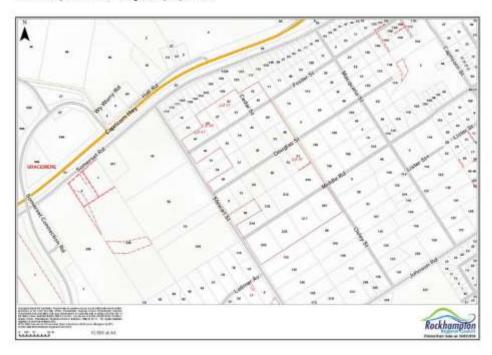
THAT Council consult with property owners on the need and preferred location of these devices, on the basis of preliminary design and conceptual layouts.

Moved by: Mayor Strelow Seconded by: Councillor Fisher

The objective of the engagement was to determine whether property owners saw a need for the installation of traffic management devices at the western end of Foster Street, Douglas Street and Middle Road in accordance with Council's Local Area Traffic Management Procedure (No.PRO.12.2).

Target Audience

The target audience for the consultation was property owners located on the western end of Foster Street, Douglas Street, and Middle Road, Gracemere. The red border in the map below depicts the 31 targeted properties.



Executive Summary

A letter was sent to all affected residents and property owners on 17 March 2014 outlining the issue and inviting them to book in a time for a one-on-one consultation. As a result, 14 property owners booked in a time and took part in a one-on-one consultation with Council officers, and either Councillor Tony Williams or Councillor Ellen Smith during late March and early April.

Council sent follow up letters and hard copy surveys to those remaining residents who did not book in a consultation session in mid-April and follow up calls were made. A further six surveys were completed through the initial follow up actions. Additional follow up actions were carried out in early May to as there were indication that some had not responded due to the Easter break, resulting in a further 6 survey responses. Upon finalisation of the consultation, 19 respondents completed the survey through one on one interviews, 4 completed the survey over the phone and 3 completed the survey in paper based copy.

Total response for the consultation was 26 respondents out of 31 which represent an 83.8% response rate. When considering the statistical confidence, this represents a 95% confidence level with a confidence interval 7.5 (based on the remaining Regional population of approx 80,000).

Main Messages from respondents

- The 75% support required for a Local Area Traffic Management (LATM) device was not reached.
 - 42.3% of all respondents indicated that the installation of a traffic management device is the best solution.
- There is a mixed response to what traffic activities demonstrate the need for traffic management devices in the area.
 - Speed is a concern for residents in the identified area
 - 13 out of 31 respondents indicated speeding as the traffic activity requiring the need for potential installation of traffic management devices in the respondent's street last year.
 - 13 out of 31 respondents indicated speeding is still occurring in the respondent's street.
 - However, 11 out of 31 respondents indicated that they did not see a need for traffic management devices.
- B-Double or larger vehicles are not believed to be causing traffic problems.
 - 61.5% of all respondents indicated that they do not believe B-Double or larger vehicles are causing the problems in their street.
- Should a traffic management device be installed, the majority believe it should be delayed until after forecasted road works and just over half of respondents indicated it should be located closer to Stewart Street.
 - 56.5% of all respondents indicated that they believe a traffic management device should be located closer to Stewart Street.
 - 80.8% of all respondents indicated that should a traffic management device be installed it should be delayed until forecasted road works are completed.
- Many respondents supplied additional comments in relation to the survey.

Survey - Overall Responses

Question 1 - In 2013, Council resolved to consult with property owners on the need and preferred location of potential traffic management devices at the western end of Foster Street, Douglas Street and Middle Road to reduce speeds and restrict access by B-Double or longer vehicle configurations.

What traffic activities demonstrated the need for potential installation devices in your street last year? (Multiple choice – more than one option could be selected)

	Response %	Response Count
Speeding vehicles	50.0%	13
Movements by semi-trailers or smaller heavy vehicles	7.7%	2
Access by B-Double trucks or larger	26.9%	7
None, I did not see a need	42.3%	11
Other (please specify)	- 100 CC	5
 Vehicles using street as racetrack and testing. 		
 80km/hr Stewart Street. Street isn't wide enough affects shed. 	for heavy vehicle (B	-Double. 40m wide
I did not see a need.		
 Owner has not noticed an increase in activities in and Stewart St). 	the past 1-2 years (I	between Oxley St
 Vehicles from 45 Douglas St using Street as race 	track and vehicle tes	ting.

Question 2 – Which traffic activities are still occurring in your street? (Multiple choice – more than one option could be selected)

.1.	Response %	Response Count
Speeding vehicles	50.0%	13
Movements by semi-trailers or smaller heavy vehicles	15.4%	4
Access by B-Double trucks or larger	26.9%	7
None, I do not see a need	42.3%	11
Other (please specify)		6
 Owner notes a few speeding vehicles from time to 	time but not a signi	ficant issue.
 Speed along Stewart St is still an issue (70km/hr) 	A 1000	
 Prime movers driving backwards and forwards to yards in the industrial area. 	hitch up or leave the	ir trailers at the truck
Irregular hooning		
 Increase in traffic since overpass. 		

Question 3 - How frequently do these traffic activities occur?

	Response %	Response Count
Less frequently this year	38.5%	10
The same as last year	19.2%	5
More frequently this year	11.5%	3
Occur irregularly or not at all	30.8%	8
Other (please specify)	277012	3
 Foster St is used by many large trucks ar west and/or to fuel up at the Caltex Servi Macquarie St. 		
 Less since routes implemented. 		

Question 4 - What hours of the day do these traffic activities occur?

		Response %	Response Count
During	g the day	11.5%	3
Late a	at night/early morning	26.9%	7
Both		38.5%	10
They o	do not occur	23.1%	6
Comm	nents:		6
	Trucks - late at night/early morning.		T - 50
	Irregular - speeding.		
•	All this heavy vehicle traffic use this str breaks is deafening. Also diesel and e for residents.		
	Mostly 5-7am out and 3-5pm back in.		
	Early morning, late afternoon servo tra	Mic.	
	Trucks - late at night/early morning.		

Question 5 – Do you believe there was an increase in these activities during the time of works on Somerset Road?

	Response %	Response Count
Yes	53.8%	14
No	46.2%	12

Question 6 – Should a traffic management device be installed in your street, the aim will be to restrict access by B-Double or larger vehicle configurations. Do you believe these vehicles are currently causing the problems in your street?

		Response %	Response Count
Yes, th	ney are the only types	0.0%	0
No, the	ere is not a problem	61.5%	16
	owever other types of vehicles are causing	26.9%	7
No, ot	ner types of vehicles are causing problems	11.5%	3
Other	(please specify)		5
	Semi-trailers and smaller heavy vehicles		7
	If road was wider, not much of issue (sealed)		
	Semi-trailers at intersection. They are slowing down. Not really a problem.		
	Large anti-elated (sp) low-loaders of up to 40-5 and soil trucks and trailers - tankers - scrap met		
	If road was sealed wider, issue is not a problem	N.	

Question 7 – Should a traffic management device be installed in your street, where do you believe it should be situated?

	Response %	Response Count
Closer to Stewart Street	56.5%	13
Aligned with a property side boundary	13.0%	3
Closer to Oxley Street	30.4%	7
In front of my property	0.0%	0
Other (please specify)		8
 Entry statement preferred treatment. 		

- Having a traffic management device close to these two streets will prevent trucks entering
 the residential street, which is what residents, such as ourselves, want done as drivers are
 only using this road as a convenient shortcut, all day every day! Wording on road signs
 should be changed to include all large trucks.
- · Can turn at Cedar Street
- Between 30 and the corner, Long speed hump. Better use of money.
- Definitely not in front of our property! This is a rural residential area. Trucks, tractors, school buses, work buses and others need to use Middle Road. We also need clear access to our property.
- · ALL of the above

Question 8 – Should a traffic management device be installed in your street, do you believe installation should be delayed until forecasted road works in your area are complete?

		Response %	Response Coun
Yes		80.8%	21
No		19.2%	4
Comm	ents:	-	3
•	We are not aware of any forecasted road	l works.	
•	Traffic from industrial doesn't impact her works.	e. So traffic management wou	uldn't be impacted b
	There will, no doubt, be an increase of tr works, but once finished, all trucks shoul Rd and be denied access to these reside	d then use the designated roo	
100	We do not believe a traffic management device is necessary at any time.		

Question 9 – Should a traffic management device be installed in your street, will any impact be made to vehicles requiring access to your property?

		Response %	Response Count
Yes		46.2%	12
No		53.8%	14
Comm	nents:		9
	Horse floats etc		
	Horse float usage and tandem tipper.		
	Not if it is installed at one end only of stre	et (Stewart and Douglas)	
	Long horse floats and trailers.		
•	Traffic management devices will only imp businesses with trucks in a residential are private property in the residential area.		
	Low loader to property. Slow point will sto	p it.	W.C USS 1
•	We, living on a rural residential property, and this proposal would impact greatly on		ich we use regularly
	Has gooseneck trailer however he realise need access so his trailer probably won't		ovation trucks] will
10.00	Not if it's positioned to give good clearance	e from gates	

Question 10 – Do you believe the installation of a traffic management device in your street is the best solution to the problem?

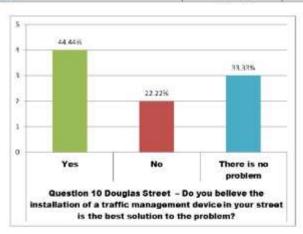
		Response %	Response Count
Yes		42.3%	11
No		23.1%	6
There is no problem		34.6%	9
Comments:			4
 The installation of e 	try statement would stop B-	Doubles.	E
 Money needs to be 	pent on road maintenance	and upgrades.	
 No (Speeding) (No but stop speeding. 	r slow point). Long speed l	hump would solve pro	blems, allow access
 Spend the money e 	ewhere, improve the condit	tion of the road.	

Break down of Question 10 responses by street groupings:

Douglas Street

Question 10 – Do you believe the installation of a traffic management device in your street is the best solution to the problem?

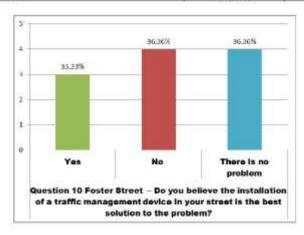
	Response %	Response Count
Yes	44.44%	4
No	22.22%	2
There is no problem	33.33%	3



Foster Street

Question 10 – Do you believe the installation of a traffic management device in your street is the best solution to the problem?

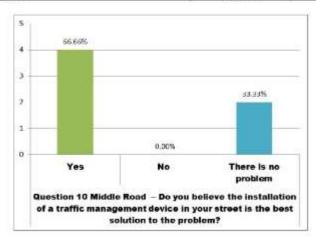
	Response %	Response Count
Yes	33.33%	3
No	36.36%	4
There is no problem	36.36%	4



Middle Road

Question 10 – Do you believe the installation of a traffic management device in your street is the best solution to the problem?

	Response %	Response Count
Yes	66.66%	4
No	0%	0
There is no problem	33.33%	2



Question 11 - Do you have any other comments or suggestions?

- Wider road although road is reasonable at present; not too many shoulder problems.
- Occasional speeding from young people in adjacent property. Potholes on shoulder of the road. Dirt on road at Macquarie / Douglas Intersection. 60km sign missing Middle Road should be fixed (Capricom to Macquarie).
- No issues. The reason no consultation was requested was there was no perceived problem that needed to be addressed.
- *Picture was drawn*. Traffic management device suggestions. Small concrete island with KEEP LEFT sign at each end. On Douglas Street and the Stewart Street end.
- Uniforms in same place in each street keep pathway 60km/ph speed on Stewart St
- Stress a 70km/hr speed zone on Stewart Street, Ideally 60km/hr.
- Move signs to other side of intersection.
- The property is vacant and owners lives elsewhere. It is an investment property.
 Overall response was 'don't want any traffic devices' but questionnaire not answered.
- The trucks that comes down the residential end of Foster St do so because it is a convenient shortcut for the drivers. They have no need what so ever as they have their designated truck route on Somerset Rd. This street is not suitable for heavy vehicle traffic, having a narrow bitumen strip with a thin dirt verge. It is unsafe having such big trucks coming down the road as sometimes speeds well over the safe level, not to mention the noise and fumes from the exhausts and diesel. The wording on the signs should include other large trucks, well only B-doubles. A physical detour such as the one in Port Curtis is needed at the junction of Foster and Stewart St and Oxley St so as to physically deter large trucks as the signs alone are and will be ignored by drivers.
- Low loaders large ones with dolly Speed (trucks) *Mentioned company names*.
- Long extended speed hump still allow heavies. Works on Foster/Macquarie intersection should be closed to allow quicker construction, rather than 1 lane.
- The response was received on 22/4/14 after returning from leave. He has noticed no
 change in traffic in the past 1-2 years outside his property. Yes, there are speeding
 vehicles from time to time and the occasional heavy vehicles, but no significant or
 noticeable change. The biggest change in traffic has been the increase in volume in
 Middle Road up to Macquarie Street where most traffic turns right into GIA.
- Corner Macquarie and Middle Road intersection on Macquarie St (Johnson leg) often pothole and slippery bitumen Maintenance issue.
- Kangaroo sign on Middle Rd both ends near Oxley & Stewart. Stop signs swap Middle/Macquarie.
- · Against footpath construction.
- Keep pathing in Stewart St Uniform location in each street 60kph in Stewart St.

8.4 MALONEY STREET BUS SET-DOWN PROPOSAL

File No: 8054

Attachments: 1. Maloney Street Concept Plan

2. DEET Letter

Authorising Officer: Robert Holmes - General Manager Regional Services

Author: Martin Crow - Manager Engineering Services

SUMMARY

Council has been approached by the Department of Education and Training requesting Council to fund as a matter of urgency the construction of a new bus set-down area and interchange in a proposed road corridor extending Maloney Street from McLaughlin Street to Yaamba Road. This report provides a brief history of the issue to date and seeks the Committee's endorsement to seek State Government support to progress this matter.

OFFICER'S RECOMMENDATION

- THAT all stakeholders previously involved in discussions regarding the proposed bus set-down area be advised that the Maloney street Bus set-down solution is not considered an affordable or cost effective solution to the issues raised and is unlikely to proceed without significant funding support from the State Government and other major stakeholders:
- 2. THAT the State Government through the Department of Education and Training and the Department of Transport and Main Roads and other major stakeholders be requested to advise their willingness to commit significant funds towards the proposed Maloney Street bus set-down solution;
- 3. THAT Council continue to work with the State Government and major stakeholders on determining whether there are other more cost effective solutions to the issues raised.

BACKGROUND

The Maloney Street connection was first considered by Council in 2006 after Main Roads had agreed to the installation of a set of traffic lights on Yaamba Road to facilitate the commercial / high density residential portion of the Forest Park Estate Development.

Two options were considered at that time, one being a connection from Alexandra Street to Yaamba Road following the Maloney Street alignment and the second option used the existing Maloney Street road reserve between Yaamba Road and McLaughlin Street and then connecting to Alexandra Street via McLaughlin Street and an overbridge at Werribee Street.

The objectives of the link were to provide an improved Heavy Vehicle access into the Parkhurst Industrial areas and to reduce Heavy Vehicle traffic on Carlton and Farm Streets past the existing schools. This link was first being considered around the time that the Edenbrook development was being mooted and Council did not have the benefit of any traffic modelling at that time. It was thought at that time that the link had the potential to attract in the order of 5000vpd and would cost in the order of \$5M.

Subsequent to that, the Rockhampton Traffic Study 2008 was completed and the study identified that the link in 2026 would attract in the order of 3000vpd all of which principally would come off Farm Street with no benefit to Carlton Street. This would reduce Farm Street from a predicted 8300vpd without the link down to 5300vpd with the link. The study cited a number of advantages as follows:

- a) The link might make it possible to remove the Farm Street OLC and close the road.
- b) Coupled with River Rose Drive, provided an additional sub-arterial corridor between Alexandra Street and Norman Road.

c) Provided an opportunity to take traffic away from sensitive land uses ie Glenmore State School.

The report also cited a disadvantage in that the closure of the Farm Street OLC would likely divert more traffic to Richardson Road resulting in improvement works on that link particularly at the Yaamba Road intersection. It was suggested that the closure of the Farm Street OLC would be unlikely. The report concluded that the traffic volumes would unlikely support a business case for the link (at a cost of about \$10M) but the advantages outweighed the disadvantages and therefore the link should be given further consideration. The link was subsequently included in the recommended network within the report.

A proposed sale of a Council owned parcel of land in the Parkhurst Industrial Area in 2010 prompted a re-examination of the proposed Maloney Street strategic link. The re-examination focused on its effectiveness, feasibility and acceptability.

The assessment concluded that the proposed link was only moderately effective, was buildable but not cost effective and had only low levels of acceptability within the impacted communities. As a result it was considered that Council's limited road funding would be better directed to other strategic links. The Maloney Street strategic link was not pursued further and the stakeholders previously engaged in discussions with Council on this proposal were advised accordingly.

In mid-2013, through working with the Glenmore State School's SafeST committee, Council Officers responded to concerns in relation to traffic congestion, pedestrian safety and bus services on Farm Street by resurrecting a portion of the Maloney Street proposal with the inclusion of a dedicated bus set down and interchange area.

In October 2013, a meeting was held between representatives of the Department of Education and Training, Glenmore State School, Glenmore State High School, Heights College, Department of Transport and Main Roads and Council Officers to further discuss and consider the proposal to construct Maloney Street between Yaamba Road and McLaughlin Street with the inclusion of a dedicated bus set-down area for the students of the Glenmore State Schools, Heights College and provide an interchange facility for students required to changes buses to continue onto a number of independent schools on the south side of Rockhampton. It was evident from this meeting that the schools would be looking to Council and DTMR to fund this project. Officers of Council and DTMR indicated that whereas they would be prepared to provide "in-principle" support to the project, neither Council nor DTMR had funding available for this project and therefore it would be likely that significant external funding would be required for the project to proceed.

More recently, a campaign of form letters has been sent to Council, the Federal Member for Capricornia and the State Member for Rockhampton seeking support for the proposal to construct Maloney Street and provide a bus set-down and interchange facility.

COMMENTARY

When Council re-examined the proposed Maloney Street strategic link in 2010, the discussion focused on its effectiveness, feasibility and acceptability as an alternative heavy vehicle route to service the Parkhurst Industrial Area.

The assessment at that time concluded that the proposed link was only moderately effective in improving Heavy Vehicle access into the Parkhurst industrial areas and reducing Heavy Vehicle numbers on Carlton and Farm Streets past the schools, was buildable but not cost effective and had only low levels of acceptability as a heavy vehicle route within the impacted communities. As a result it was considered that Council's limited road funding would be better directed to other strategic links and so the Maloney Street strategic link was not pursued any further.

The proposal currently being put forward is similar in some respects but is more focused on relieving traffic congestion on Farm and Carlton Streets and relocating the school bus interchange. An assessment of it's effectiveness, feasibility and acceptability as an alternative route servicing the schools is as follows.

Effectiveness - Will the link meet the objectives?

The objectives were considered to be relieving traffic congestion along and diversion of Heavy Vehicles away from the school frontages on Farm and Carlton Streets and provision of a dedicated bus set-down and interchange to service the Glenmore State Schools, Heights College and schools on the south side of Rockhampton.

As the current proposal is to link between Yaamba Road and McLaughlin Street only, the ability to draw significant amounts of through traffic away from Farm Street and Carlton Street is limited. There simply does not appear to be any through traffic distance or time savings that would make the route more desirable to the general public. Benefit would be derived during morning and afternoon drop off and pick up times if parking and pedestrian facilities were provided on Maloney Street which would alleviate some of the pressure on the Farm and Carlton Street parking. Controls would need to be put in place to dissuade parents from parking on the opposite side of the road generating numerous random crossings by the students.

The proposal as it currently stands would be unlikely to draw any significant amounts of heavy vehicle movements away from Farm and Carlton Streets for reasons similar to the through traffic. It may be possible to force closure of sections of Farm and Carlton Streets to certain types of heavy vehicles however in the absence of a physical barrier, it's success would be reliant on enforcement. The ability to cater for increased heavy vehicle turning movements through the Mclaughlin Street, Farm Street, Scott Street intersection is also highly questionable. The relocation of bus services away from the current frontages of the schools would have obvious benefits in relation to traffic and pedestrian congestion and safety however provision would need to be made for the safe crossing of Heights College students. Given that there would be limited reduction in through traffic and heavy vehicle movements, some benefit to school traffic during morning and afternoon drop off and pick up periods and benefits derived from relocating the bus set-downs and interchange, it is considered that the link would be moderately effective.

Feasibility - Will the link be buildable and cost effective?

There are some constraints within the proposed corridor and intersections that would need to be overcome. Land acquisition would be required from Heights College, Glenmore State Schools, Council and a number of private interests to facilitate the road. There is some drainage and flooding problems associated Splitters Creek to overcome, constraints with regards to services located adjacent to the Mclaughlin Street and Maloney Street intersection and building across the above ground water main along Yaamba Road may be an issue. These issues are not insurmountable however will impact on cost estimates and project delivery times. It is very difficult to prepare a cost estimate for the concept plan given the pre-project and construction issues to be addressed however indicatively the proposal could cost in the order of \$5M to \$6M. At these budget levels, cost effectiveness is considered a real issue in that \$6M to deliver a moderately effective solution is questionable. It is considered that the link would be buildable with some risks but is not cost effective.

Acceptability - Will the scheme be acceptable to the community?

The road section that runs along the back boundary of the Glenmore State Schools and through the Heights College land did not attract great levels of acceptability at the time that Council were proposing it as a heavy vehicle route. Queensland Education were originally indicating support for the proposal but changed their view substantially when both Parents & Citizens committees started strongly opposing it. The Heights College representatives were indicating a willingness to work with Council on the proposal.

The residents of the Cant Street area were strongly opposed to the proposal on the basis of impact on their amenity ie noise, light, visual and also safety of the children currently wandering through Council's land to access the schools given that they would now have to cross a road.

In more recent times, general support for the proposal has been indicated by the Department of Education and Training, officers of the Department of Transport and Main Roads, Heights College and through the distribution of a form letter, the support of a number of residents who presumably have a relationship with the schools. It is difficult to gauge overall community acceptance as many of the perceived issues previously raised by the Glenmore State School's P&C's and the residents of the Cant Street area remain under this proposal.

The issues that have been raised in relation to traffic congestion and pedestrian safety in relation to the Glenmore State Schools and Heights College are common to the majority of schools within the built up urban areas. The issue with regards to the presence of heavy vehicles on Farm and Carlton Streets does exacerbate the problem. These issues are likely to increase with the introduction of Year 7 classes to the High School campuses in 2015.

To place some context around the level of investment being requested of Council to resolve these issues, the State Government has a \$10 million program to install flashing school zone signs in over 300 zones over four years which commenced in 2013. The program was aimed at increasing the visibility of school zones, particularly in relation to schools with a split campus or on multi-lane roads. Schools are being selected based on a risk analysis of all school zones in Queensland. The risk analysis takes into consideration a number of factors including: previous crash history; the amount of vehicle and pedestrian traffic; current speed limit and compliance with the limit (when known); visibility; and support from the relevant State member.

Given that this is the State Government's response to issues surrounding traffic at schools, it would be unreasonable to suggest that Council alone invest in the order of \$5M to \$6M to address the traffic related issues at the three schools located on Farm Street and Carlton Street and issues associated with the State Government's school bus service.

In the absence of any significant majority funding commitment from the State Government and other Stakeholders, more cost effective solutions are needed to be found. Council should approach the various stakeholders to determine their willingness to provide funding towards the proposed solution and in the likely absence of any funding support, Council should continue to work with the various Stakeholders to explore any further cost effective solutions.

BUDGET IMPLICATIONS

It is very difficult to prepare a cost estimate for the concept plan given the pre-project and construction issues to be addressed however indicatively the proposal could cost in the order of \$5M to \$6M. This project does not appear in the forward works program for construction within the next 10 year time period or beyond. It may be possible to attract some funding towards the project through government grants.

RISK ASSESSMENT

There is always potential for accidents involving students to occur in the vicinity of schools. This is often as a result of poor behaviour of students crossing the roads at inappropriate locations and times, poor behaviour of parents or carers requiring students to cross to where they have parked and poor behaviour of motorists often travelling too fast and without care along the frontages of our schools.

CORPORATE/OPERATIONAL PLAN

Consult on, advocate, plan, deliver and maintain a range of safe urban and rural public infrastructure appropriate to the Region's needs, both present and into the future.

CONCLUSION

The objectives of the proposed Maloney Street Bus set-down were considered to be relieving traffic congestion along and diversion of Heavy Vehicles away from the school frontages on Farm and Carlton Streets and provision of a dedicated bus set-down and interchange to service the Glenmore State Schools, Heights College and schools on the south side of Rockhampton. It is considered that the proposed solution would be moderately effective in achieving this, would be buildable with some risks but not cost effective.

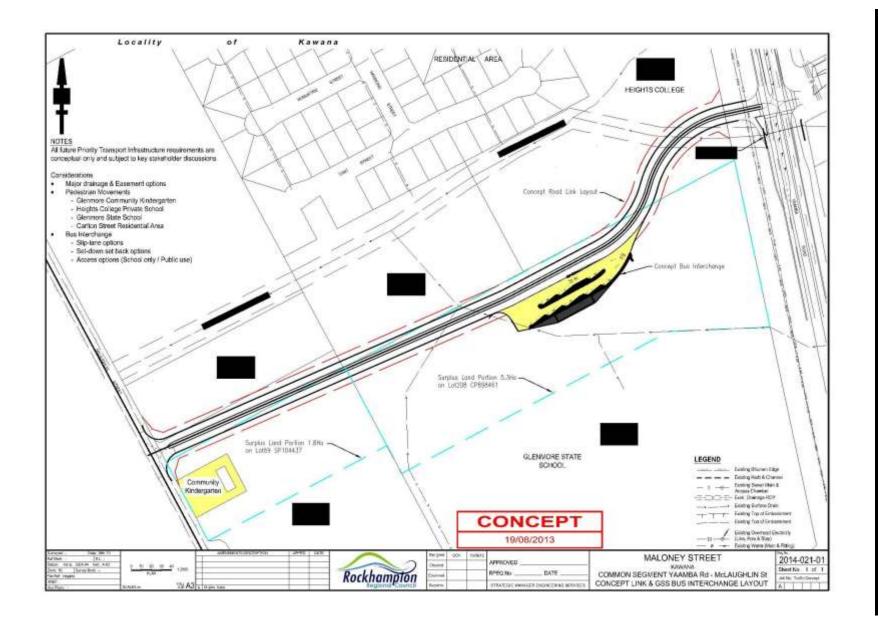
It would be unreasonable to suggest that Council alone invest in the order of \$5M to \$6M to address the traffic related issues at the three schools located on Farm Street and Carlton Street and issues associated with the State Government's school bus service.

In the absence of any significant majority funding commitment from the State Government and other Stakeholders, more cost effective solutions are needed to be found. Council should approach the various stakeholders to determine their willingness to provide funding towards the proposed solution and in the likely absence of any funding support, Council should continue to work with the various Stakeholders to explore any further cost effective solutions.

MALONEY STREET BUS SET-DOWN PROPOSAL

Maloney Street Concept Plan

Meeting Date: 2 July 2014



MALONEY STREET BUS SET-DOWN PROPOSAL

DEET Letter

Meeting Date: 2 July 2014

4 JUN 2014

Mr Evan Pardon Chief Executive Officer Rockhampton Regional Council 232 Bolsover Street ROCKHAMPTON QLD 4700

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Action Office	PREDON ET
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Task to: 2019	COSOR
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Education, Training and Employment

Dear Mr Pardon

I am writing to confirm my support for Rockhampton Regional Council's (RRC) proposal for a bus interchange on Maloney Street, Kawana between Glenmore Educational Precinct and Heights College (see attached initial concept).

On 17 October 2013, a combined stakeholder group met to discuss the need to reduce traffic and pedestrian congestion on Farm and Carlton Streets, Kawana. These streets run past the entrances to Glenmore state schools and Heights College respectively, and have very high traffic flow including heavy transport vehicles intermixed with buses, parents and students from these schools.

This meeting, which included representatives from Glenmore State High School, Glenmore State School, Heights College, Department of Transport and Main Roads (DTMR) (Translink and Road Safety), and RRC, was presented with a proposal by RRC for a bus interchange in between the two educational areas on a road which is not currently gazetted. The proposal was unanimously supported.

The meeting also heard anecdotal evidence of students being involved in near-miss situations with vehicular traffic on a daily basis, with one student being hit and injured in an accident last year. Since the local bus company is using the front of the Glenmore schools as a bus interchange, this situation also endangers students from the Grammar schools and Cathedral College Furthermore, the number of students changing buses on Farm Street is predicted to rise sharply at the beginning of 2015 due to the transition of Year 7 students to

The Department of Education, Training and Employment (DETE) is prepared to set aside the surplus land in order to enable RRC to progress this project. In order to enable a subdivision of the surplus land, DETE requests RRC in collaboration with DTMR, to refine and provide the requirements for the bus interchange as soon as possible.

With traffic flow increasing at 2% per annum, and the predicted growth in student numbers, the risk to students on the street in front of these schools will increase significantly. As this is a matter of student safety, I am seeking RRC to provide funding and support to progress this bus interchange proposal as a priority.

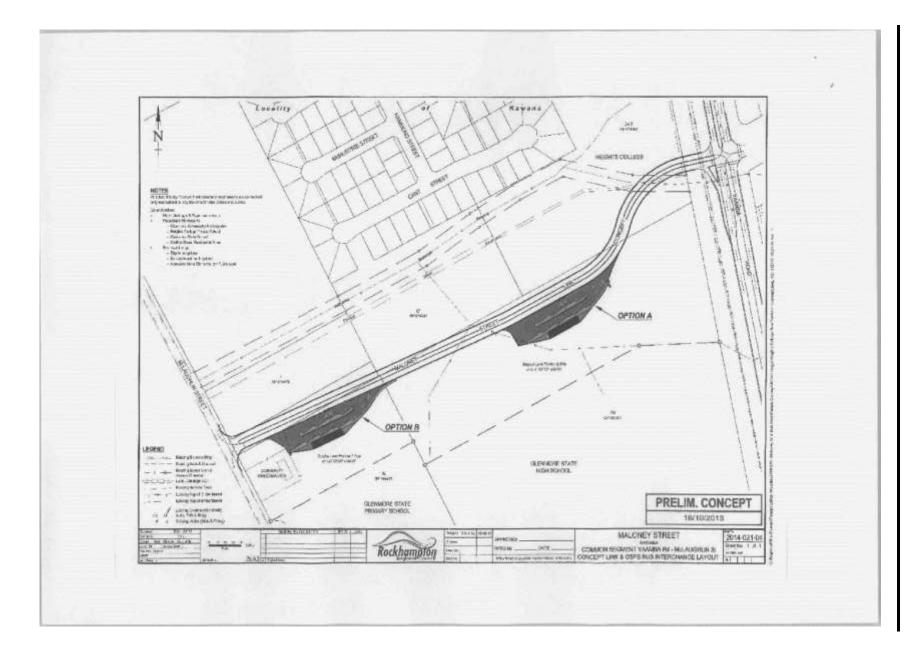
Yours sincerely

DR JIM WATTERSTON Director-General

Ref: 13/447027

Enc

Office of the Director-General Floor 22 Education House no Mary Street Bristiane 400 PO Hox 15033 City East Queensland 4002 Australia Telephone +61 7 3237 0900 Facsimile +61 7 3237 1369 Website www.siete.gkl.gov.su ABN 76 337 613 647



8.5 DIPLOCK STREET LOCAL AREA TRAFFIC MANAGEMENT TRIAL

File No: 7127 Attachments: Nil

Authorising Officer: Robert Holmes - General Manager Regional Services

Author: Martin Crow - Manager Engineering Services

SUMMARY

Council Officers and Councillor Williams and Councillor Fisher have completed community consultation in relation to Local Area Traffic Management Devices on Diplock Street. A trial of a limited number of LATM devices is proposed and the Committee's endorsement of those trials is sought..

OFFICER'S RECOMMENDATION

THAT preliminary plans and cost estimates for Local Area Traffic Management Devices generally be prepared in accordance with the recommendations of the 2012 MRCagney report for the intersection of Diplock and Honour Streets and the intersection of Diplock and Wooster Streets.

COMMENTARY

According to the Community Engagement Report written for the consultation on Local Area Traffic Devices for Diplock Street, 69% of all residents surveyed commented that speed was a major concern and 75.3% of all surveyed residents indicated that they were open to LATM type devices. As a result of the consultation and with the majority support of residents indicated in accordance with the Local Area Traffic Management Policy, a trial has been proposed for two locations along Diplock Street, namely at the Honour Street and Wooster Street intersections.

The Honour Street and Wooster Street intersections with Diplock Street were amongst a list of intersections on Diplock Street that achieved over 75% approval in relation to where the LATM devices could proceed. The full list if intersections that achieved a level of support greater than 75% is as follows.

- 1) Coome and Diplock (83%)
- 2) Vallis and Diplock (80%)
- 3) Honour and Diplock (88%)
- 4) Adair and Diplock (100%)
- 5) Wooster and Diplock (90%)

The recommended treatments at the Honour Street and Wooster Street intersections taken from the MRCagney report of 2012 are as shown below.

- Device 4 Intersection of Diplock Street and Honour Street (figure 4)
 - The scheme technically requires no change at this intersection as the priority is already with Honour Street, and Diplock Street traffic must give way. It would be a reasonable option however to consider reinforcing this priority by installing some landscaped additions, either a splitter island as suggested at device 3 or removing the large truncations to give the intersection a more traditional form.



Figure 4: Intersection of Diplock Street and Honour Street

- Device 10 Intersection of Wooster Street and Diplock Street (Figure 10)
 - This device changes priority from Diplock Street to Wooster Street. This is a relatively significant device. The concept technically provides the necessary road marking and warning to indicate to vehicles on Diplock Street that they are the yielding traffic. However MRCagney would recommend additional consideration to removing the kerb truncations to provide a more traditional intersection form and deliver better signals to drivers about appropriate speed. Alternatively install a larger landscaped splitter island to reinforce the fact that Diplock Street is now the minor leg.

It is noted that both vehicles parked kerbside in Wooster Street in this aerial are parked illegally. (Rule 208 (7))



Figure 10: Intersection of Wooster Street and Diplock Street

In order to proceed with the proposed trial, preliminary designs and cost estimates will need to be prepared so that consultation with residents adjacent to the proposed locations can be undertaken and the necessary funding can be sought.

BACKGROUND

Diplock Street has had a long history of residents' complaints in relation to driver behaviour, mainly speeding vehicles. As Dean Street is an urban arterial road with several signalised intersections, anecdotal reports from complainants suggest that drivers "rat run" along Diplock Street in an attempt to avoid these intersections. A concept LATM Scheme was prepared in July 2012 resulting in Council resolving to undertake consultation based on the two alternative conceptual treatments in the MRCagney report in accordance with Council's Local Area Traffic Management Policy. Consultation was undertaken by Council Officers and Councillors Williams and Fisher between February and September 2013.

Council's policy on speed management devices outlines that an area must obtain over 75% for it to be considered further. Council officers have undertaken this analysis and the results indicate that many of the intersections along Diplock Street have obtained this mark as has the street overall.

In December 2013, Councillors Williams and Fisher advised the residents that a report is being prepared for Council's Infrastructure Committee to recommend that a staged approach be undertaken to slow traffic and discourage non local drivers from using this street. This correspondence indicated that a trial is being recommended for firstly the Wooster Street and Diplock Street" and Honour Street and Diplock Street intersections. Further to this, the residents were advised that Council would discuss the actual speed management device with residents that live close to those intersections

BUDGET IMPLICATIONS

Local Area Traffic Management Devices on Diplock Street do not currently appear in the 2014/15 capital budget. If LATM devices are to proceed on Diplock Street in the 2014/15 financial year, funding will either have to be provided within the capital budget or sourced from the Traffic and Road Safety Minor Capital Works Program.

CORPORATE/OPERATIONAL PLAN

Consult on, advocate, plan, deliver and maintain a range of safe urban and rural public infrastructure appropriate to the Region's needs, both present and into the future.

CONCLUSION

Consultation in relation to Local Area Traffic Management Devices on Diplock Street was undertaken by Council Officers and Councillors Williams and Fisher between February and September 2013.As a result of the consultation and with the majority support of residents indicated in accordance with the Local Area Traffic Management Policy, a trial has been proposed for two locations along Diplock Street, namely at the Honour Street and Wooster Street intersections.

In order to proceed with the proposed trial, preliminary designs and cost estimates will need to be prepared so that consultation with residents adjacent to the proposed locations can be undertaken and the necessary funding can be sought.

9 STRATEGIC REPORTS

9.1 PROGRESS REPORT – FLOODING INVESTIGATIONS AT THE INTERSECTION OF DENHAM AND WEST STREETS

File No: 2479

Attachments: 1. Option 4 - Stage 1

Option 4 - Stage 2
 Option 4 - Stage 3

Authorising Officer: Robert Holmes - General Manager Regional Services

Author: Martin Crow - Manager Engineering Services

SUMMARY

Issues have been raised for some time regarding the flooding that occurs in the vicinity of the intersection of Denham and West Streets and investigations are ongoing into this matter. This report provides a progress report to the Committee on those investigations.

OFFICER'S RECOMMENDATION

THAT the Progress Report – Flooding Investigations at the Intersection of Denham and West Streets be received.

COMMENTARY

As is normally the case in the older parts of the City, the intersection of Denham and West Street and the surrounding stormwater catchment is lacking in piped drainage capacity in comparison to current drainage design standards. The problem at this intersection is exacerbated by the lack of an overland flow path that can cater for the surface flows in excess of the existing piped drainage system. It appears that the road crown levels at the intersection control the surface level of the flow and prevent the surface flow from continuing along either Denham Street or West Street towards the main drain.

Options Analysis

During the investigation, 5 options have been explored at a concept level to resolve the issue. These options include:

Option 1A: Box culvert at Denham St and West St combined with lowering of road crown.

The model suggests that 2 x1200x1200 box culvert will still generate excessive ponding of about 290mm at the Denham Street and West Street intersection during ARI 100 rainfall event. This option also causes excessive ponding at downstream residential areas around Denham Lane due to the limited capacity of the existing 450mm diameter pipe.

Option 1B: This option involves Option 1A with only one barrel of the box culvert plus upgrading upstream and downstream piping in West Street from Fitzroy Street to William Street.

A 900mm diameter stormwater pipe from Fitzroy Street to Oxford Street, 1050mm diameter from Oxford Street to 148 West Street and 1200mm diameter pipe to the connection point at William Street have been modelled to meet the level of service for the minor drainage system. As expected, most of the nodes commence to flood from ARI 5 and above. In the absence of an overland flow path, excess flows are still trapped at the Denham Street and West Street intersection.

Option 2: Diversion of flow from Northern sub-catchment bounded by Talford Street, Archer Street, West Street and Fitzroy Street.

An existing 900 mm diameter stormwater pipe runs along Murray Street from Fitzroy Street intersection to Archer Street. This line commands an area of about 6 ha.

Initial calculation of peak flows suggests that the existing 900 mm pipe is just sufficient for the current catchment. Any further loading from diversion of runoff from other subcatchments may worsen the flooding issues at Murray Street and in the CBD area of Archer Street or Fitzroy Street. Therefore this option has not been considered viable and has not been modelled.

Option 3: Diversion of flow along Denham Street to George Street.

This option involves installation of a proposed 1200mm piping along Denham Street from West Street and Denham Street intersection to George Street. An additional 40m of the proposed 1200 mm diameter piping is required to be installed compared to option 1B. This option involves the construction and maintenance along the higher road category, Denham Street being the major urban collector. Essentially, this option does not provide any hydraulic advantages in relation to existing pipe size at George Street. This arrangement may also significantly reduce the capacity of 600 diameter pipe from Campbell Street leading to worsening of flooding issues in the CBD area. Therefore this option is also not considered viable and has not been modelled.

Option 4: Option 1B with the added diversion of surface runoff along Denham Street to the park at the corner of Murray Street and Denham Street.

This option involves the installation of piping along West Street from William Street to Fitzroy Street to cater for minor ARI rainfall events and the lowering of the intersection to let the kerb flow pass along Denham Street towards Murray Street. This option would also require the improvement of the kerb and channel grade along Denham Street from West Street to Murray Street and the lowering Denham Street at the intersection of Murray Street and Denham Street to direct the surface runoff across to Murray Street or to Central Park. The extension of the 375 mm pipe from the eastern side of the Murray Street and Denham Street intersection may also be required to capture the kerb flow and limit the depth of kerb flow during ARI5 storm event.

Option 4 offers a hydraulically preferred solution but potentially could be quite expensive. The proposed layout for the underground piping and surface flow arrangements lower the potential ponding extent and duration around the Denham Lane area. The proposed works could be implemented in stages that will provide opportunities for monitoring the effectiveness of the staged construction. A possible staging scenario (refer attachments) could be as follows.

Stage 1:

- a) Lower the road crown on the northern side of West Street at the West Street and Denham Street intersection.
- b) Install a 1200 (W) x1200(H) box culvert across Denham Street and extend the existing 1200mm diameter RCP pipe from William Street to 148 West Street.
- c) Install a short section of 600 mm pipe along Denham Street to the West Street and Denham Street intersection.

Stage 2:

- a) Regrade the kerb and channel along Denham Street to Murray St to maintain a falling grade.
- b) Lower the road crown at the Denham Street and Murray Street intersection to discharge surface runoff to Murray St or together with Murray St footpath to discharge to Central Park.
- c) Extend the existing 375 mm piping at Murray Street to the Denham Street and West Street intersection along northern side of Denham Street to capture additional surface runoff and maintain the flow depth along kerb and channel within road reserve.

Stage 3:

a) Install a 1050mm diameter pipe along West Street from 148 West Street to Oxford Street.

b) Install a 900 mm diameter pipe along West Street from Oxford Street through to and across Fitzroy Street.

Current Investigations

In order for the overall concept to work, it needs to be determined whether the lowering of road crowns at the Denham Street and West Street intersection and the Denham Street and Murray Street intersection is feasible without compromising the safety or function of the road itself or misdirecting flows into adjacent properties. A detailed survey of this section of road has been commissioned and a preliminary design project will need to be added to the design program. This work will also enable an investigation into whether the lowering of the road crowns without any additional piping as an early stage works package would provide any tangible benefit.

Preliminary cost estimates will need to be prepared for each of the work items within each of the stages to determine whether the overall scheme is affordable and whether there are particular work items within each stage where greater benefit is gained for the money invested.

More recently, Council Officers became aware of an abandoned 375mm diameter water main running along Denham Street which may be able to be utilised to some benefit at minimal cost. This is currently being investigated.

BACKGROUND

In 2013, Council was contacted by the owners of the Red Lion Hotel requesting that action be taken in regards to the regular flooding of the Hotel resulting from the back-up of stormwater at the intersection of Denham Street and West Street.

Council Officers have undertaken an investigation and reviewed a number of options to alleviate flooding at this intersection. Significant constraints including the capacity of the existing stormwater network, the lack of a defined major flow path and the function of Denham Street has resulted in this issue being very difficult to resolve.

PREVIOUS DECISIONS

The following resolution was adopted by Council in February 2014.

That a report be provided to this Committee with respect to a solution and costing for an upgraded stormwater drainage program in the Denham-West Street area to reduce the constant flash flooding and damage to businesses in the Denham-West Street area.

Moved by: Councillor Belz Seconded by: Mayor Strelow

MOTION CARRIED

BUDGET IMPLICATIONS

At present, no project or staged program of works has been included in the forward works program. Once a clear path has been identified to resolve this issue the forward works program will be updated and the works can be considered for future capital funding.

CORPORATE/OPERATIONAL PLAN

Consult on, advocate, plan, deliver and maintain the range of urban and rural public infrastructure appropriate to the region's needs, both present and future.

CONCLUSION

Council Officers have undertaken an investigation and reviewed a number of options to alleviate flooding at the Denham Street and West Street intersection. Significant constraints including the capacity of the existing stormwater network, the lack of a defined major flow path and the function of Denham Street has resulted in this issue being very difficult to resolve.

A hydraulically preferred solution has been arrived at but this solution potentially could be quite expensive. In order for the overall concept to work, it needs to be determined whether the lowering of road crowns at the Denham Street and West Street intersection and the Denham Street and Murray Street intersection is feasible without compromising the safety or function of the road itself or misdirecting flows into adjacent properties.

Preliminary cost estimates will need to be prepared for each of the work items within each of the stages to determine whether the overall scheme is affordable or whether particular work items provide greater benefit in relation to cost.

PROGRESS REPORT – FLOODING INVESTIGATIONS AT THE INTERSECTION OF DENHAM AND WEST STREETS

Option 4 - Stage 1

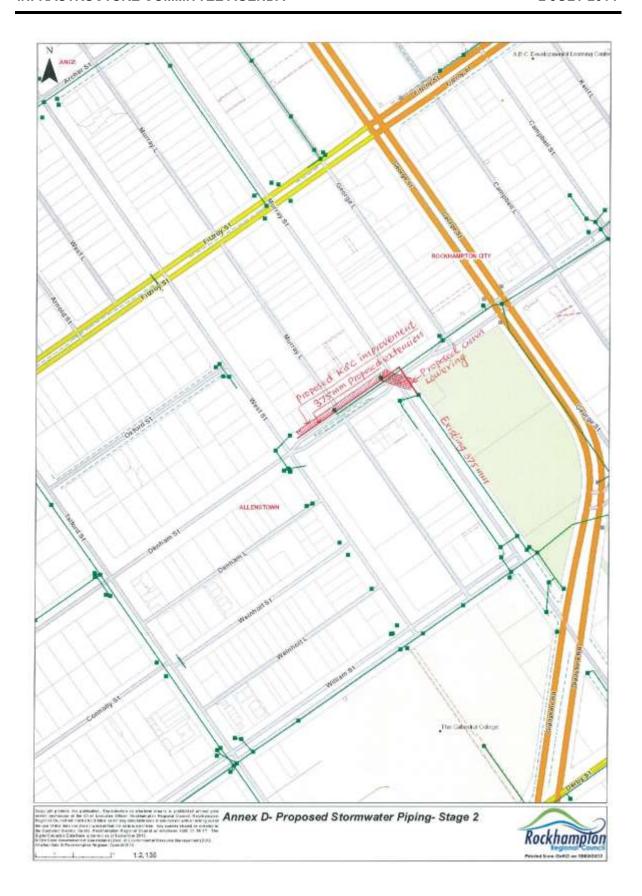
Meeting Date: 2 July 2014



PROGRESS REPORT – FLOODING INVESTIGATIONS AT THE INTERSECTION OF DENHAM AND WEST STREETS

Option 4 - Stage 2

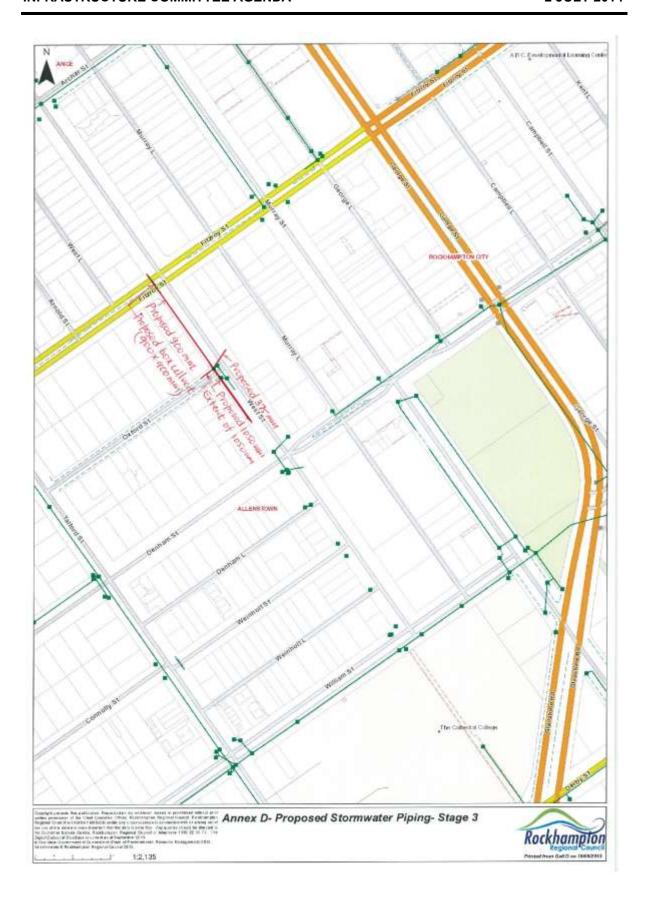
Meeting Date: 2 July 2014



PROGRESS REPORT – FLOODING INVESTIGATIONS AT THE INTERSECTION OF DENHAM AND WEST STREETS

Option 4 - Stage 3

Meeting Date: 2 July 2014



9.2 CARIBEA ESTATE DRAINAGE

File No: 8055
Attachments: Nil

Authorising Officer: Robert Holmes - General Manager Regional Services

Author: Grant Vaughan - Coordinator Civil Design

SUMMARY

At the May 2014 meeting of the Infrastructure Committee, Councillor Schwarten requested a report addressing drainage issues at No 54 Kershaw Street be presented to the Committee as soon as practicable. This report summarises the actions taken at Kershaw Street to resolve flooding issues, and provides an update on the status of the Caribea Estate drainage upgrades.

OFFICER'S RECOMMENDATION

THAT the report on Caribea Estate Drainage be received.

COMMENTARY

Kershaw Street Drainage:

In March 2014, Cr Schwarten responded to a resident's enquiry regarding flooding at No.54 Kershaw Street. He observed floodwaters covering the roadway, and debris that indicated a significant flooding problem.

A recent drainage investigation at this catchment (February 2011) did not identify deficiencies in the stormwater network consistent with the observed flooding. Council's Civil Operations Unit arranged for a remote camera to traverse the pipework downstream of No.54 Kershaw Street, which identified significant intrusion of tree roots causing blockages at several locations. The tree roots have since been removed, and it is expected the drainage system will perform within the limitations of the network as summarised in the 2011 drainage investigation.

Caribea Estate Drainage Investigation:

In February 2011, a drainage investigation was completed for Caribea Estate, which is primarily the area bounded by Richardson Road, Alexandra Street, Main Street, and Yaamba Road. The recommended improvements are listed below:

- 1. Installation of a pipe network and associated inlets at Rice Street and Buzacott Street.
- 2. Installation of a pipe segment and associated inlets at Menzies Street, Davidson Street, and Boland Street.
- 3. Upgrade of the pipe network in Calder Street and Henderson Street.
- 4. Modification of the detention basin in Jack Allenby Park.
- 5. Inlet replacement through the entire catchment.

The main finding was that the trunk main along Alexandra Street contained spare capacity in both the minor storm event (5 year ARI) and the major storm event (100 year ARI). The recommendations are methods to increase the capture of stormwater by supplementing the existing pipe network, installing more efficient inlets, and better utilising the existing detention basin.

The following comments from the report are noted:

- The pipe network is augmented only where it would be able to assist the major storm road flows.
- The downstream end of the system has sufficient capacity under the highway, without the need for additional detention storage.

- The pit surface levels adopted were taken from topographical information provided, and are not considered significantly accurate to achieve a high level of confidence from the drainage model.
- Improvement of the drainage model through additional survey is recommended during the detailed design of Stage 1.
- Once more accurate survey information is added to the model, it may be necessary
 to alter some of the proposed upgrades identified in the report, however it is not
 anticipated that the general findings of the study will change.

The provision of the extra survey resulted in substantial variations to the report recommendations, particularly for the major storm event (100 year ARI). An addendum to the report was issued in August 2012. The changes to the recommendations in the original report are listed below:

- 1. Installation of a pipe network and associated inlets at Rice Street and Buzacott Street generally unchanged.
- 2. Installation of a pipe segment and associated inlets at Menzies Street, Davidson Street, and Boland Street generally unchanged.
- 3. Upgrade of the pipe network in Calder Street and Henderson Street significantly changed (increased from 1/1050 dia. pipe to 2/1050 dia. pipes).
- 4. Modifications to the detention basin in Jack Allenby Park generally unchanged.
- 5. Inlet replacement through the entire catchment still required.

The addendum to the original report also recommended additional items to be included in the catchment upgrades. These items are listed below:

- 1. Pipe duplication at Alexandra Street Rice Street to Menzies Street (\$240,000).
- 2. Drainage upgrade at Alexandra Street / Gray Street intersection (\$75,000).
- 3. Drainage upgrade at Calder Street / Buzacott Street intersection (\$120,000).
- 4. Pipe duplication at Henderson Street (\$225,000).
- 5. Drainage upgrade at Alexandra Street Henderson Street to Park Street (\$1,500,000).
- 6. Drainage upgrade at Medcraf Street / Rodger Street intersection (\$55,000).
- 7. Drainage upgrade at Boland Street (Rodger Street to Twigg Street) (\$270,000).
- 8. Drainage upgrade at Twigg Street (Boland Street to Sheehy Street) (\$275,000).
- 9. The land between Moores Creek Road and Park Street to be utilised as a detention basin.

Implementation:

Of the recommendations from the original drainage investigation (February 2011), the following have been completed:

- Modifications to the detention basin in Jack Allenby Park (\$297,000).
- Inlet replacements (38 of 57) (\$267,000).

It is recommended the outstanding works from the February 2011 drainage investigation be staged for construction over the next three years. The works are listed below:

- 1. Rice Street pipe network and inlets (\$210,000).
- 2. Buzacott Street pipe network and inlets (\$110,000).
- 3. Installation of a pipe segment and associated inlets at Menzies Street, Davidson Street, and Boland Street (\$60,000).
- 4. Calder Street and Henderson Street pipe network upgrade (\$290,000).
- 5. Completion of the inlet replacement program (\$155,000).

It is recommended the additional works proposed in the addendum to the drainage investigation (August 2012) be placed on hold until the works proposed in the original report are completed. The reasoning for this is:

- (a) Cost of implementing the additional recommendations is prohibitive (\$2,760,000),
- (b) The original upgrades will relieve concerns for the minor storm event (5 year ARI),

(c) As the drainage model was very sensitive to the level of information adopted, it will provide time to calibrate the model against future storms to determine if the additional works are required.

BACKGROUND

The stormwater investigation carried out by Council in 2011 revealed a number of deficiencies within the existing stormwater catchment within Caribea Estate.

The principal deficiencies related to an underutilisation of the existing detention basin in Jack Allenby Park and a significant under supply of inlet capacity across the network which prevented the existing pipework from being fully utilised. A small number of pipe runs were also identified as being undersize and required upgrade or duplication.

A staged approach was proposed over a number of financial years to resolve flooding issues in this catchment. This proposal is being progressively implemented as funds allow.

BUDGET IMPLICATIONS

Subsequent stages of the Caribea Estate drainage program have been included in the forward works program for consideration at budget time.

CORPORATE/OPERATIONAL PLAN

Consult on, advocate, plan, deliver and maintain the range of urban and rural public infrastructure appropriate to the region's needs, both present and future.

CONCLUSION

A drainage investigation has been received for the Caribea Estate catchment. An addendum to this report has also been received that significantly increases the recommendations of the original report.

An implementation strategy that improves residents flooding immunity and best utilises existing infrastructure has been detailed.

Flooding experienced at Kershaw Street in March 2014 is not due to deficiencies with the drainage network, although implementation of the drainage strategies will improve flooding immunity in this area. Maintenance has been completed to ensure the network performs to its capacity.

9.3 CIVIL OPERATIONS SECTION'S WORKS PROGRAM FOR JULY 2014

File No: 7028

Attachments: 1. Civil Operations Section's Works Program

June - July 2014

2. Customer Requests received by Civil Operations and Engineering Services

Sections - May 2014

3. Urban and Rural Capital Projects Report

Financial Year to Date - May 2014

Authorising Officer: Robert Holmes - General Manager Regional Services

Author: Russell Collins - Manager Civil Operations

SUMMARY

This report outlines Civil Operations Section's Works Program of planned projects for the months June-July 2014, Customer Requests received and completed in May 2014 and also Urban and Rural Operations Capital Projects Report Financial Year to Date – May 2014.

OFFICER'S RECOMMENDATION

THAT the Civil Operations Section's Works Program for July 2014 report be received.

COMMENTARY

The Civil Operations Section submits a monthly report outlining the details of the programmed works for the upcoming month to assist Councillors and senior managers when they receive enquiries from their constituents in relation to road and associated road reserve works.

BACKGROUND

In May, 339 customer requests were received and of those 181 requests were completed. A total of 370 requests were completed for May and those received in previous months.

In May there were 244 requests for inspections received with 309 inspections completed in the month; 450 works orders were issued for staff to conduct action, with 401 works orders being completed in May.

BUDGET IMPLICATIONS

All works specified in this report are included in Council's current approved budget.

LEGISLATIVE CONTEXT

All works outlined in this report will be conducted in a manner to comply with all legislation.

STAFFING IMPLICATIONS

The works specified in this report have been programmed whilst taking into consideration current staffing levels.

RISK ASSESSMENT

Civil Operations and Engineering Services Section's staff conduct a risk assessment of their job site before work commences to ensure they have identified assessed and controlled any possible hazards to ensure the safety of themselves and others.

CONCLUSION

This report outlines the planned works program and the customer requests received for Civil Operations and Engineering Services Sections and Urban and Rural Operations Capital Projects Report Financial Year to Date and are for the information of Councillors.

CIVIL OPERATIONS SECTION'S WORKS PROGRAM FOR JULY 2014

Civil Operations Section's Works Program June - July 2014

Meeting Date: 2 July 2014

Construction and Works Program - June - July 2014

Council's Civil Operations Section advises the proposed road and associated road reserve network works and other planned projects to be conducted throughout the Region in May - June 2014, subject to weather conditions and other competing priorities. Please note that the information listed in the Potential Interruptions section is general information and does not override the information that is provided to the Emergency Services Personnel and Bus Company's etc.

Urban West Area					
Work Location	Work Description	Start Date	Expected Completion Date	Potential Interruptions	
Foster St-Macquarie St to east	New Construction	Late June	Mid October	Traffic Controllers & speed restrictions	
Stewart St -Somerset Rd to Boongary Rd Granite	Footpath	Early July	Early July	Traffic Controllers & speed restrictions	

Rural West Area				
Work Location	Work Description	Start Date	Expected Completion Date	Potential Interruptions
Stanwell Waroula Road	Culvert	Late June	Early September	Traffic Controllers & speed restrictions

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Urban Central Area					
Work Location	Work Description	Start Date	Expected Completion Date	Potential Interruptions	
14 Miles St to Park Street	Stormwater	Early July	Early September	Traffic Controllers & speed restrictions	
Alma St-Archer St to Cambridge St	Footpath	Mid July	End July	Traffic Controllers & speed restrictions	
Archer St-Canning St to Quarry St	Reconstruction	Mid July	Mid August	Traffic Controllers & speed restrictions	
Archer St-George St to Murray St	Footpath	Early August	Mid August	Traffic Controllers & speed restrictions	
Archer St-Kent St to Campbell St	Footpath	Mid August	Mid September	Traffic Controllers & speed restrictions	
Campbell St-Denham St to William St	Reconstruction	Mid July	Late August	Traffic Controllers & speed restrictions	

CIVIL OPERATIONS SECTION'S WORKS PROGRAM FOR JULY 2014

Customer Requests received by Civil Operations and Engineering Services Sections - May 2014

Meeting Date: 2 July 2014

Regional S	Services	Received	Completed	Complete
Request				
	Issue	In May 2014	Received May 2014	Received May & Prior Months
Bridges	Bridge Maintenance	1	1	1
BRIDGE	Bridge Vandalism	8	0	0
	sub - total	1	1	1
	Drainage Miscellaneous	13	6	29
Council	Drainage Inundation (Flooding Issue)	۰	0	4
Drainage	Drainage Kerb and Channel			12
DRAINA	Drainage - Gully Pits	1	1	2 9
	Drainage Pipes and Culverts	2	2	100
	Drainage Vandalism	24	10	0 56
	sub - total		0	0
	Development Dust	0		
Operation	Development Erosion	1	0	3
Works (Sub- divisions) etc	Development Miscellaneous Development Noise		ě	1
Infrastructure	Development Drainage		0	
OPERAT	Infra Operations - General Enquiries	26	18	23
	IOU - Water & Sewerage	0	0	0
	sub - total	29	19	27
	Burn Off Advice - Reduction Burning	2	2	4
	Bus Stops/Seating & Bus Shelters	2	0	
	Disaster Management - Gen Enquiry	4	4	4
	Engineering - General Enquiry		3	4
	FRW Reinstatements	0	0	0
	Grading-Unsealed Road Maintenance	10	6	17
	Guard Rails	4	0	0
	Guide Posts	190	0	0
	Illegal Dumping		7	10
	Lime Spraying	0	0	0
	Miscellaneous	49	23	58
Roads	Infrastructure - General Enquiry	19	16	22
ROADRE	Petition	0	0	0
(Road Maintenance	Footpath & Offroad Cycle ways Maintenance	23	7	23
Issues)	Potholes / Sealed Roads	65	39	58
	Property Accesses	2	1	2
	Railway Crossings	0	0	0
	Rural Roadside Vegetation/Stashing	10	6	8
	Rural Property Addressing - Existing		0	۰
	Rural Property Addressing - New	2	0	0
	Urban Addressing	7	. 1	1
	Signs & Lines (Already Existing)	30	20	41
	Street Lighting - OTHER		3	3
	Street Lighting - MAINTENANCE		3 7	3
	Street Sweeping - Cleaning Traffic Lights	13	4	2
	Title 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (268	146	266
	sub - total	0	0	0
Traffic	Heavy Vehicles Roundabout/Medians		0	
Management	Speed Limits/Traffic Volumes	2	0	ő
TRAFFI	Signs & Lines (New)	15		18
Not related to Maintenance	Traffic Signals (Stop Lights)	0	0	0
	Traffic Counts		0	0
	sub - total	17	6	18
VEHICL	Abandoned Vehicles (Asset)	0	0	2
	sub - total	0	0	2
	Boat Ramps	0	0	0
Watercourse	Jetties/Wharves		0	0
WCOURS	Miscelaneous	0	0	0
	Vandalism	0	0	0
	sub - total	0	0	0

CIVIL OPERATIONS SECTION'S WORKS PROGRAM FOR JULY 2014

Urban and Rural Capital Projects Report Financial Year to Date -May 2014

Meeting Date: 2 July 2014

Revised Budget	Feb Revised Budget	Expenditure to Date	Completed (Y/N)	Status
DCC-RC-Alick Street-Glenmore Road t		2,417	6	Design only
RWC-GR-Connors Road Ch 01 to Ch0.9	0	29,214		Communiced
RWC-GR-StanwellWeroula Rd Ch 1.4km	0	21,155		Commenced
NC-Exenchville Rd/Pilbeam Dr Carpark	10,000	4,855	Y	Completed
RWC-BR-Bowlin Road-Timber bridge on	50,000	33,532		Commerced
RWC-BR-Mount Hopeful Road-Six Mile C	400,000	438,002	Y	Completed
RWC-BR-Stanwell Waroula Road-Deep Cr	600,000	301,286		Commenced
RWC-GR Six Mile RoadBajool CH: 0.51Km	26,300	26,248	Y	Completed
RWC-GR North Langmorn Road 4 8 5.3	13,000	12,645	Y	Completed
RWC-GR-Aremby Road Bouldercombe CH 3.69-	31,800	31,772	Y	Completed
RWC-GR-Boulder Creek Road Boulder Creek	37,700	37,695	Y	Completed
RWC-GR-Boys Road Ch0.98km 2.2km Al	30,000	18,296	Y	Completed
RWC-GR-Calmorin Road Ridgelands Ch3.8 to	21,700	21,605	Y	Completed
RWC-GR-Comanche Rd Glenroy Ch 2 42-2.8 &			·	Completed
RWC-GR-Craignaught Rd Morinish Ch. 0.38	12,700 17,100	12,638 17,022	Y	Completed
WC-GR-Dalma-Ridgelands Rd Ridgelands C	-		Y	Completed
RWC-GR-Deep Creek Rd Ch 0.075 to 0.575	15,300	15,294 16,417	Y	Completed
RWC-GR-Gemant Road Ch 7.2km-8.7km R	35.000	- 335333	Y	
	35,000	46,888	- T	Completed
RWC-GR-Gienroy Rd Ch 21:12	0	65,625		Commerced
RWC-GR-Grantleigh Rd Gogango Ch: 0.475km	12,100	12,846	Y	Completed
RWC-GR-Gravel Resheet Program A	- 0	- 0		Commenced
RWC-GR-Gravel Resheet Program B	500,000	.0		Commenced
RWC-GR-Half Penny Rid Gracemere Ch 1.53	(2,834)	(2,834)	Y	Completed
RWC-GR-Harding Rd Ch 1 29-1 39 to Ch 2.6	0	27,063	Y	Completed
RWC-GR-Hunter Gully Rd Morinish Ch; 0.49	21,000	20,710	Υ	Completed
RWC-GR-Jackson Rd Gogango Ch. 0.0 0.2k	13,000	12,957	Y	Completed
RWC-GR-Morinish Rd Morininsh Ch: 0.0 =	56,200	56,141	Y	Completed
RWC-GR-Moses Road Ch 2 85-2 95 Ch3 0	25,000	36,774	Y	Completed
RWC-GR-Munns Rd Gogango Ch 2:17:2.75km	19,800	19,738	Y	Completed
RWC-GR-Port Curtis River Road Chai	20,000	12,701	Y	Completed
RWC-GR-Reid Road Alton Down Ch3 31 to 5	43,850	43,811	Y	Completed
RWC-GR-Riversiea Rd Gogango Ch 4.61.5.	0	25,360	Y	Completed
RWC-GR-Rosewood Road Momish south Vario	81,040	81,040	Y	Completed
RWC-GR-San Jose Road Marmor CH. 6.8.7.	26,100	26,084	Y	Completed
RWC-GR-Smith Rd Gogango Ch 1.4 2.2 km	46 600	46,629	Y	Completed
RWC-GR-Thirsty Creek Rd Gogango Ch 0.1 -	37,000	36,900	Y	Completed
RWC-GRWarren Rd Ch0.5 to Ch 1035	0	17,360		Commenced
RWC-GR-Yarra Rd Gogango Ch 0.0 1.4 km	40,400	40,416	Υ	Completed
RWC-NC-Albert Street-Stanwell-Ch 0-0	31,000	77,808	Y	Completed
RWC-NC-Blackspot-Razorback Road	376,000	247,441		Commenced
RWC-NC-Bower Street-Stanwell-Ch 0.24	40,000	47,006	Y	Completed
RWC-NC-Bruce Highway-Roopes Road Int.	1,500	1,229		Communiced
				Deferred 2014/15
RWC-NC-Bruce Street Bajool	0	0		
RWC-NC-Earl Street-Stanwell-Ch 0-0.2	145,000	66,208	Y	Completed Coformal S014/15
WC-NC-John Street Bajord	0	0 0000	- 4	Deferred 2014/15
WC-NC-Roopes Crossing floodway upgr	85,000	99,256	Y	Completed
RWC-PW South Ulam Road Bajool Ch 3 165-5	363,800	363,799	Y	Completed
WC-RF-Signage & GP upgrades	20,000	23,913		Commenced
RWC-RS-Bower St Stanwell CH: 0.00 -	3,900	3,904	Y	Completed
VWC-RS-Bucholz Rd	11,700	11,659	Y	Completed
WC-RS-Cange Ave-Bouldercombe	22,000	19,059	Υ	Completed
RWC-RS-Cecil St Kabra Chil0 00-0.1	4,000	3,979	Υ	Completed
RWC-RS-Dalma-Ridgelands Rd	19,000	19,008	Υ	Completed
WC-RSGlenroy Road Ch 13,35-13,75		9,071		
RWC-RS-Goodson Rd-Bouldercombe	28,600	27,538	Υ	Completed
RWC-RS-Hewill Drive	15,050	11,219	Y	Completed

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Revised Budget	Feb Revised Budget	Expenditure to Date	Completed (Y/N)	Status
RWC-RS-Isabella St Stanwell CH: 0.00	3,300	3,289	Υ	Completed
RWC-RS-Kahl Rd Pink Lily	3,500	3,491	Υ	Completed
RWC-RS-Laurel Bank Rd	73,600	73,593	Υ	Completed
RWC-RS-Macpherson Rd	11,700	11,659	Υ	Completed
RWC-RS-Main St Stanwell CH: 0.00 0	13,700	13,653	Υ	Completed
RWC-RSMarble Ridge Road Ch 0.74-1.	10 - E1200	7,879		
RWC-RS-Marion St Stanwell CH 0.00 -	5,900	5,901	Y	Campleted
RWC-RS-Mt Usher Rd-Bouldercombe	23,600	18,496	Y	Completed
RWC-RS-Nugget Ave Bouldercombe	4,200	4,133	Y	Completed
RWC-RS-Petersen Rd	1,150	1,123	Y	Completed
RWC-RS-Polson Ck Rd	40,200	40,137	Y	Completed
RWC-RS-Riverslea Road Formation Wide	0			Deferred 2014/15
RWC-RS-Sandy Creek Rd CH 2 28 2 5	5,500	5.446	Υ	Completed
RWC-RS-Stx Mile Rd Pink Lify	55,000	55,021	Y	Completed
RWC-RS-Stewart Park Rd	1,800	1,749	Υ	Completed
RWC-RSWebb Rd Bouldercombe	7.500	7,535	Y	Completed
RWC-RSWiseman St Kabra CH: 0.00 0	7,300	7,300	Y	Completed
RWC-SS-Reseal Program Spray Seal R	0	0	250	Commerced
RWC-SW-Alton Downs Nine Mile Road-Ch	0	0		Deferred 2015/16
RWC-SW-Dee River Swinging Bridge upg	106,000	103,695	Y	Completed
RWC-SW-Glenroy Road-Ch 22 62	0	0		Deferred 2014/15
RWC-SW-Harding Road-Ch 5.92	0	0	-	Deferred 2014/15
RWC-SW-Sisalana Road-Ch 1.05	44,000	44,122	Y	Completed
RWC-SW-South Yaamba Road-Ch 5.56	60,000	17,696		Commerced
RWC-TM-QRN interface Agreement	2,700	5,720	Y	Completed
SS-Norman Road-Nagle Dr to CQU entrance	4,924	4,924	Ý	Completed
SW-Pilbeam Dr Inlet Grates	15,000	23,323	Y	Completed
	308,757	25,525	-	
JCC-ALL-Preproject planning and desi	300,102	1		Not started Total Forecast co
JCC-AS-Annual Asphalt Resurfacing Program	729,484	0		£
JCC-AS-Baladava Street-#336/#334 to Robinson St	0	17,769	Y	Completed
JCC-AS-Blovsom St-Thozet Rd to Wiltshire St	160,000	157,918	Υ	Completed
JCC-AS-Balsover Street-Derby Street	85,376	85,376	Y	Completed
JCC-AS-Brecknell Street-Jessie Stree	53,651	54,338	Y	Completed
JCC-AS-Canning St-Voss St to south	(54)	(52)	Y	Completed
JCC-AS-Connor St-Stenhouse St to Rhodes St		42,188	Y	Completed
JCC-AS-Cowap St.#17 Cowap St to Alexandra St centre only		36,437	Y	Completed
JCC-AS-Earl Street-Dean Street to Ge	122,784	122,784	Υ	Completed
JCC-AS-Eton Street-Denham Street Ext	379,867	384,616	Y	Completed
JCC-AS-Farm Street-Haynes Street to	6.203	5,203	Y	Completed
JCC-AS-Feez St Service Rd to #406 Norman		15,508	Y	Completed
JCC-AS-Geordie St-Frenchville Rd to Gill	14,700	15,702	Y	Completed
JCC-AS-Huet St-Lion Creek Rid to Ramsden St		80,595	Y	Completed
JCC-AS-Inkerman St-Balaclave St Intersection only		6,491	Y	Completed
JCC-AS-Jaggrad St-Farm St to Mackinley St	130,000	128,087	Y	Completed
JCC-AS-Kent Lane Fitzroy St to Denham St.		26,922	Y	Completed
ICC-AS-Lucas St-Berserker St to Nobbs St		51,502	Y	Completed
ICC-AS-Mansfield St-Herbert St to Jackson St		56,850	Υ	Completed
ICC-AS-Meade St-Jardine St to Oakley St		53,482	Y	Completed
ICC-AS-Moores Ck Road Feez St to Bruigom		202,842	Y	Completed
JCC-AS-Part St-Elphinstone St to Burnett St		69,481	Y	Completed
JCC-AS-Quarry St-#124 Quarry to Kidsten St.		28,430	Ÿ	Completed
JCC-AS-Quarry Street-Denham St to Willia	279,028	310,196	Y	Completed
JCC-AS-Rhodes St-Stack St to Dee Stt	273,020	58,826	Y	Completed
JCC-AS-Richardson Road-MacNevin Stre	304,439	394,439	Ÿ	Completed
JCC-AS-Richardson Road-Macrievin Stre JCC-AS-Richardson St-Dean St to Diplock St	32,516	32,516	Y	Completed

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UCC-AS-Samuel Crescent-Belmont Road 130,109 UCC-AS-Suthers Ave-Philp St to Marsh St UCC-AS-Weathers I St Normen Rot out-de UCC-BS-New Set down upgrading progre 0 UCC-BS-New Bus Sheiters 20,000 UCC-PS-Alma Street-Archer St to Camb 40,000 UCC-FP-Alma Street-Archer St to Camp 0 UCC-FP-Archer Street-Kent St to Camp 0 UCC-FP-Archer Street-Kent St to Camp 0 UCC-FP-Berserker StHigh St to Learn 60,000 UCC-FP-Brangom Street 0 UCC-FP-Brugom Street-Moores Creek R 84,188 UCC-FP-Brugom Street-Moores Creek R 84,188 UCC-FP-Brugom Street-Moores Creek R 9 UCC-FP-McLaughtin St-Cartion St to S 28,125 UCC-FP-McLaug	Expenditure to Date	Completed (Y/N)	Status
UCC-ASWeatherall St Norman Rd to cul-de 0 UCC-BS-Blus set down inagrading progra 0 UCC-BS-New Blus Shedlaris 80,000 UCC-BS-New Blus Shedlaris 215,000 UCC-FP2-High Street Bridge Repairs 215,000 UCC-FP2-Archer Street-Seorge St to Mu 0 UCC-FP2-Archer Street-Kent St to Camp 0 UCC-FP2-Archer Street-Kent St to Learn 60,000 UCC-FP-Brugom Street 0 UCC-FP-Brugom Street 0 UCC-FP-HicLaughtin St-Cartion St to S 28,125 UCC-FP-HicLaughtin St Cartion St to S 28,125 UCC-FP-HicLaughtin St Cartion St to S 29,000 UCC-FP-HicLaughtin St Cartion St to S 29,000 UCC-FP-HicLaughtin St Cartion St to S 275,000 UCC-MicColon St to St Kent Rd St Cartion St Carti	130,109	Y	Completed
ICC-RS-Bus set down upgrading program 0 ICC-RS-Mew Bus Shollers 80,000 ICC-RS-Mew Bus Shollers 215,000 ICC-RS-Migh Street Bidge Repairs 215,000 ICC-RS-Archer Street-Archer St to Camb 40,000 ICC-RS-Archer Street-Archer St to Camp 0 ICC-RS-Berserker Sthrigh St to Learn 60,000 ICC-RS-Berserker Sthrigh St to Learn 60,000 ICC-RS-Berserker Sthrigh St to Learn 60,000 ICC-RS-Berugom Street 0 ICC-RS-Brugom Street 0 ICC-RS-Moving Street-Kerngan Street 0 ICC-RS-Moving Street-Kerngan Street 0 ICC-RS-Moving Street-Kerngan Street 0 ICC-Archard acquisition costs associ 70,000 ICC-Misc-Moving Street-Kerngan Street 25,000 ICC-Misc-Moving Street-Kerngan Street 54,43 ICC-NC-Blackspot-Intersection of Can 275,000 ICC-Misc-Moving Street-King Street 10,000,000 ICC-NC-Blackspot-Intersection of Can 275,000 ICC-NC-Dean Street-High Street Inter 1,000,000 ICC-NC-Moving Street-Kerngan Street 12,233 ICC-NC-Moving Street 12,233 ICC-NC-Moving Street 12,233 ICC-NC-Moving Street 12,233 ICC-NC-Moving Street-Kerngan Street 1,000,000 ICC-RC-Archer Street-Murray Street 300,000 ICC-RC-Archer Street-Murray Street 500,000 ICC-RC-Archer Street-Murray Street 500,000 ICC-RC-Bean Street-Murray Street 0 0 ICC-RC-Carell Street-New Exhibition 0 ICC-RC-Carell Street-New Exhibition 0 ICC-RC-Carell Street-New Exhibition 0 ICC-RC-Carell Street-Albart Street to 100,000 ICC-RC-Carell Street-New Exhibition 0 ICC-RC-Carell Street-Albart Street to 10,000,000 ICC-RC-Carell Street-Bidder Carell Street to 10,000,000 ICC-RC-Carell Street-Bidder Carell Street to 10,000,000 ICC-RC-Carell Street-Bidder Carell Street to 10,000,000 ICC-RC-Carell Street-Bidd	38,159	Υ	Completed
CC-BS-New Bus Shelters	21,014	Υ	Completed
CCFP32-High Street Bridge Repairs 215,000 10CFP-Airobar Street-Archer St to Camb 40,000 10CFP-Airobar Street-George St to Mu 0 0 0 0 0 0 0 0 0			Old Program
ICC-FP-Archer Street-Recorge St to Mu	38,913	1	Designed
ICC-FP-Archer Street-Kent St to Camp	185,279	Y	Completed
CC-FP-Archer Street-Kent St to Camp	406		Not started
CC-FP-Archer Street-Kent St to Camp	0	No	Deferred 2015/16
ICC-FP-Berserker StHigh St to Learn	0	No	Deferred 2015/16
CC-FP-Brugom Street	25,894	No	Commenced
ICC-FP-Kerngan Street	88,126	Y	Completed see Jop
ICC-FP-Kerngan Street	0	Y	No C 1017235 Completed see Jop
ICC-RP-McLaughtin St-Carthon Strost	8,285	No	Na C 0992766 Design only-Deferre
CC-FP-Moyle Street-Kerngan Street 0 CC-FPUpper Dawson Road-King St fo			2014/15
CC-PUpper Dawson Road-King St fo	42,879	Y	Completed
CC-LA-Land acquisition costs associ 70,000 CC-Misc Traffic Light Upgrades PAPL t 25,000 CC-Misc Moores Creek Rd Roundabout Pede 5,443 CC-NC-Blackspot-intersection of Can 275,000 CC-NC-Dean Street-High Street Inter 1,000,000 CC-NC-Dean Street-High Street Inter 1,000,000 CC-NC-Lion Creek Road Exhibition 1,000,000 CC-NC-Moores Ck Rd Kerrigan Street 1,2539 CC-NC-Norman Road-Springfield Drive 2,282,434 CC-NC-Wernbee St (12,539) CC-PC-MrcPMs on 80 kmh roads 20,000 CC-PC-Archer St 506,000 CC-PC-Archer Street-Canning Street 360,000 CC-RC-Archer Street-Murray Street t 360,000 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Campbell Street-New Exhibition 0 CC-RC-Campbell Street Denham Street to 830,000 CC-RC-Cand Street-New Exhibition 0 CC-RC-Cand Street Archer Street to 0 CC-RC-McLaughtin St-Splitters Creek to 434,000 CC-RC-McLond Street Denham St to William 0 CC-RC-Causy Street-Denham St to Den 800,000 CC-RC-Calaur Street-Denham St to Den 800,000 CC-RC-Calaur Street Denham St to Den 800,000 CC-RC-Calaur St	.0	No	Deferred 2014/15
CC-Misc Traffic Light Upgrades PAPL t 25,000 ICC-Misc-Moores Creek Rd Roundabout Pede 5,443 ICC-NC-Blackspot-intersection of Can 275,000 ICC-NC-Dean Street-High Street Inter 1,000,000 ICC-NC-Dean Street-High Street Inter 1,000,000 ICC-NC-Dean Street-High Street Inter 1,000,000 ICC-NC-Dean Street Road Exhibition ICC-NC-Moores Ck Rd Kerrigan Street 2,262,434 ICC-NC-Moores Ck Rd Kerrigan Street (12,539) ICC-NC-Moores Ck Rd Kerrigan Street (12,539) ICC-NC-Moores Rd Road-Springfield Drive 2,262,434 ICC-NC-Moores Rd Road-Springfield Drive 2,262,434 ICC-NC-Moores Rd Road-Springfield Drive 2,000 ICC-RC-Archer Street-Canning Street 830,000 ICC-RC-Archer Street-Canning Street 360,000 ICC-RC-Archer Street-Moores Street to 0 ICC-RC-Bean Street-Haynes Street to 0 ICC-RC-Bean Street-Haynes Street to 0 ICC-RC-Bean Street-New Exhibition 0 ICC-RC-Canpbell Street_Denham Street to 830,000 ICC-RC-Canpbell Street_Denham Street to 830,000 ICC-RC-Cavell Street-New Exhibition 0 ICC-RC-Dean Street / Elphinstone Street 22,739 ICC-RC-Dean Street / Elphinstone Street 22,739 ICC-RC-Gent Street Archer Street to 0 ICC-RC-Gent Street Archer Street to 0 ICC-RC-Hent Street Archer Street to 0 ICC-RC-Hent Street Archer Street to 0 ICC-RC-Moores Road-Luck Avenue to 480,000 ICC-RC-Moores Street-Outside centrol 50,000 ICC-RC-Moores Street-Denham St to William 0 ICC-RC-Quay Street-Denham St to William 0 ICC-RC-Quay Street-Denham St to Den 800,000 ICC-RC-Sedborough Street Denham St to Den 800,000 ICC-RC-Sedborough Street ICC-RC-Taiford Street (Denham St to Den 800,000 ICC-RC-Taiford Street (Denby Street ICC-RC	0	No	Deferred 2014/15
CC-NC-Blackspot-Intersection of Can 275,000 CC-NC-Blackspot-Intersection of Can 275,000 CC-NC-Dean Street-High Street Inter 1,000,000 CC-NC-Lion Creek Road Exhibition CC-NC-Moores Ck Rd Kerrigan Street CC-NC-Moores Ck Rd Kerrigan Street CC-NC-Norman Road-Springfield Drive 2,262,434 CC-NC-Norman Road-Springfield Drive 2,262,434 CC-NC-Wernibee St (12,539) CC-PM-RPMs on 80 kmh roads 20,000 CC-RC-Archer St 630,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street to 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-New Exhibition 0 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Genmore Road_Neville Hewitt Brid 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 10 CC-RC-Kent Street-Albert Street to 10 CC-RC-Motin Street-Campbell Street 480,000 CC-RC-Ouay Street-Denham St to Will 11,250 CC-RC-Quay Street-Denham St to Will 11,250 CC-RC-Quay Street-Denham St to Will 11,250 CC-RC-Calor Street (Derby Street 250,000 CC-RC-Sedborough Street (Derby Street 250,000 CC-RC-Fenhanced School Zone Signage 10 CC-RC-Fenhanced School Zone Signage 10 CC-RC-Replace guardrail at various 50,000	2,505	No	Not started
CC-NC-Blackspot-Intersection of Can 275,000 CC-NC-Dean Street-High Street Inter 1,000,000 CC-NC-Lion Creek Road Exhibition CC-NC-Moores Ck Rd Kerrigan Stree CC-NC-Moores Ck Rd Kerrigan Stree CC-NC-Norman Road-Springfield Drive 2,262,434 CC-NC-Morman Road-Springfield Drive 2,262,434 CC-NC-Wernbee St (12,539) CC-PM-RPMs on 80 kmh roads 20,000 CC-RC-Archer St 630,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street t 360,000 CC-RC-Bersetker Street-Learnington S 745,000 CC-RC-Bersetker Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Campbell Street_Denham Street to 30,000 CC-RC-Dean Street-Vew Exhibition 0 CC-RC-Dean Street-Vew Exhibition 0 CC-RC-Cavell Street Archer Street to 0 CC-RC-Genmore Road_Neville Hewitt Brid 0 CC-RC-Genmore Road_Neville Hewitt Brid 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 10 CC-RC-Kent Street-Albert Street to 10 CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-Quay Street-Denham Stro Will 11,250 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Derby to William 0 CC-RC-Causy Street-Derby Street 250,000 CC-RC-Sedborough Street (Derby Street 250,000 CC-RC-Fenhanced School Zone Signage 10 CC-RC-Fenhanced School Zone Signage 10 CC-RC-Replace guardrail at various 50,000 CC-RC-Replace guardrail at various 50,000	10,997	Y	Completed
CC-NC-Dean Street-High Street Inter	5,741	Y	Completed
CC-NC-Lion Creek Road Exhibition CC-NC-Moores Ck Rd Kerrigan Stree CC-NC-Moores Ck Rd Kerrigan Stree CC-NC-Moores Ck Rd Kerrigan Stree CC-NC-Morman Road-Springfield Drive 2,262,434 CC-NC-Morman Road-Springfield Drive 20,000 CC-PM-RPMs on 80 km h roads 20,000 CC-PM-RPMs on 80 km h roads 20,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street 300,000 CC-RC-Archer Street-Murray Street 0 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Berserker Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Cavell Street-Filter Street Street CC-RC-Genmore Road_Neville Hewitt Brid 0 CC-RC-Genmore Road_Neville Hewitt Brid 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 1 CC-RC-Kent Street-Albert Street to 1 CC-RC-Kent Street-Albert Street to 1 CC-RC-Modaughin St-Splitters Creek to 484,000 CC-RC-Modaughin St-Splitters Creek to 434,000 CC-RC-Moth Street-Cutside centr 50,000 CC-RC-Moth Street-Cutside centr 50,000 CC-RC-Moth Street-Campbell Street 685,000 CC-RC-Guay Street-Derby to William 0 CC-RC-Guay Street-Reptace guardrail at various 50,000 CC-RC-Reptace guardrail at various 50,000 CC-RC-Repta	276,586	Y	Completed
ICC-NC-Moores Ck Rd Kerrigan Stree ICC-NC-Norman Road-Springfield Drive 2,262,434 ICC-NCWernbee St (12,539) ICC-PM-RPMs on 80 km h roads 20,000 ICC-RC-Archer St 830,000 ICC-RC-Archer Street-Canning Street 506,000 ICC-RC-Archer Street-Murray Street t 360,000 ICC-RC-Archer Street-Murray Street to 0 ICC-RC-Bears Street-Haynes Street to 0 ICC-RC-Bears Street-Learnington S 745,000 ICC-RC-Bears Street-Learnington S 745,000 ICC-RC-Campbell Street_Denham Street to 830,000 ICC-RC-Campbell Street_Denham Street to 830,000 ICC-RC-Cavell Street-New Exhibition 0 ICC-RC-Cavell Street-Feet Street Street Street 22,739 ICC-RC-Germore Road_Nevite Hewitt Bind 0 ICC-RC-Kent Street Archer Street to 0 ICC-RC-Kent Street-Albert Street to 700,000 ICC-RC-Kent Street-Albert Street to 1 ICC-RC-Kent Street-Albert Street to ICC-RC-Modusgrave Street-Outside centr 50,000 ICC-RC-Modusgrave Street-Outside centr 50,000 ICC-RC-Guay Street-Denham St to Will 11,250 ICC-RC-Guay Street-Rephace guardrail at various 50,000 ICC-RC-Fephace guardrail at various 50,000 ICC-RC-Rephace guardrail at various 50,000 ICC-	739,387	No	Commenced
CC-NC-Norman Road-Springfield Drive 2,262,434 CC-NCWembee St (12,539) CC-PM-RPMs on 80 km h roads 20,000 CC-RC-Archer St 830,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street t 360,000 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Cavell Street feet perham Street to 0 CC-RC-Genmore Road_Neville Hewillt Bind 0 CC-RC-Genmore Road_Neville Hewillt Bind 0 CC-RC-Kent Street Archer Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Lion Creek Road-Luck Avenue t 480,000 CC-RC-Mutuaghin St-Splitters Creek to 434,000 CC-RC-Moth Street-Campbell Street 50,000 CC-RC-Guay Street-Derby to William 0 CC-RC-Quay Street-Derby to William 0 <td>1,978</td> <td>No</td> <td>Not started</td>	1,978	No	Not started
CC-NC-Norman Road-Springfield Drive 2,262,434 CC-NCWembee St (12,539) CC-PM-RPMs on 80 km h roads 20,000 CC-RC-Archer St 830,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street t 360,000 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Cavell Street feet perham Street to 0 CC-RC-Genmore Road_Neville Hewillt Bind 0 CC-RC-Genmore Road_Neville Hewillt Bind 0 CC-RC-Kent Street Archer Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Lion Creek Road-Luck Avenue t 480,000 CC-RC-Mutuaghin St-Splitters Creek to 434,000 CC-RC-Moth Street-Campbell Street 50,000 CC-RC-Guay Street-Derby to William 0 CC-RC-Quay Street-Derby to William 0 <td>1,083</td> <td>No</td> <td>Not started</td>	1,083	No	Not started
CC-NCWembee St	2,311,703	Y	Completed
CC-PM-RPMs on 80 kmh roads 20,000 CC-RC-Archer St 630,000 CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street to 0 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Genmore Road_Nevitle Hewitt Brid 0 CC-RC-Gent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-Moth Street-Campbell Street 885,000 CC-RC-Ouay Street-Campbell Street 885,000 CC-RC-Ouay Street-Denham St to Wil 11,250 CC-RC-Ouay Street-Derby to William 0 CC-RC-Ouay Street-Fitzny St to Den 800,000 CC-RC-Sedborough Street Denham St to Wil 250,000 CC-RC-Talford Street Denby Street 250,000 CC-RC-Talford Street Denby Street 250,000 CC-RC-Felhanced School Zone Signage 100-RF-Enhanced School	(12,539)	Y	Completed
CC-RC-Archer St	10,986	No	Commerced
CC-RC-Archer Street-Canning Street 506,000 CC-RC-Archer Street-Murray Street t 360,000 CC-RC-Bean Street-Haynes Street to 0 CC-RC-Bean Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Glemmore Road_Nevife Hewitt Brid 0 CC-RC-Glemmore Road_Nevife Hewitt Brid 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 480,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-Mosprave Street-Outside centr 50,000 CC-RC-Quay Street-Campbell Street 865,000 CC-RC-Quay Street-Denham St to Wil 11,250 CC-RC-Quay Street-Denby to William 0 CC-RC-Quay Street-Fitzny St to Den 800,000 CC-RC-Sedborough Street Denham St to Wil 250,000 CC-RC-Taiford Street Denby Street 250,000 CC-RC-Taiford Street Denby Street 816,000 CC-RC-Taiford Street Carby Street 816,000 CC-RC-P-Enhanced School Zone Signage 100-RF-Enhanced School Zone Signage 100-RF-Enhan	703,049	Y	Completed
ICC-RC-Bean Street-Murray Street to 0 ICC-RC-Bean Street-Haynes Street to 0 ICC-RC-Bean Street-Learnington S 745,000 ICC-RC-Campbell Street_Denham Street to 830,000 ICC-RC-Campbell Street_Denham Street to 830,000 ICC-RC-Cavell Street-New Exhibition 0 ICC-RC-Dean Street / Elphinstone Street 22,739 ICC-RC-Bean Street / Elphinstone Street 22,739 ICC-RC-Glemmore Road_Neville Hewillt Brid 0 ICC-RC-Kent Street-Abert Street to 0 ICC-RC-Kent Street-Abert Street to 0 ICC-RC-Kent Street-Abert Street to 0 ICC-RC-Hon Street-Abert Street to 0 ICC-RC-McLaughlin St-Splitters Oreek to 434,000 ICC-RC-McLaughlin St-Splitters Oreek to 434,000 ICC-RC-McLaughlin St-Splitters Oreek to 434,000 ICC-RC-North Street-Campbell Street 865,000 ICC-RC-Oualy Street-Denham St to Will 11,250 ICC-RC-Oualy Street-Denham St to Will 11,250 ICC-RC-Oualy Street-Denham St to Den 800,000 ICC-RC-Oualy Street-Fitznoy St to Den 800,000 ICC-RC-Talford Street (Derby Street 1250,000 ICC-RC-Talford Street (Derby Street 1250,000 ICC-RC-Talford Street (Derby Street 1250,000 ICC-RC-Fenhanced School Zone Signage ICC-RC-Replace guardrail at various 50,000 ICC-RC-RC-RC-RC-RC-RC-RC-RC-RC-RC-RC-RC-R	31,946	No.	The second second second
CC-RC-Bean Street-Haynes Street to 0 CC-RC-Berserker Street-Learnington S 745,000 CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Germore Road_Nevitle Hewitt Brid 0 CC-RC-Kent Street Archer Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 10 CC-RC-Kent Street-Albert Street to 10 CC-RC-Kent Street-Albert Street to 10 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-Quay Street_Denham St to Will 11,250 CC-RC-Quay Street_Denham St to Will 11,250 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street (Dentry Street 816,000 CC-RC-Talford Street (Dentry Street 816,000 CC-RC-Enhanced School Zone Signage 10 CC-RC-Replace guardrail at various 50,000 CC-RC-Replace guardrail at various		No	In design
CC-RC-Berserker Street-Learnington S	159,076	No	Sommerced
CC-RC-Campbell Street_Denham Street to 830,000 CC-RC-Cavell Street-New Exhibition 0 CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Genmore Road_Neville Hewillt Bind 0 CC-RC-Kent Street Archer Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Cavell Street-Albert Street to 0 CC-RC-McLaughlin St-Spillters Creek to 434,000 CC-RC-McLaughlin St-Spillters Creek to 434,000 CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-Quay Street_Denham St to Wil 11,250 CC-RC-Quay Street_Denham St to Wil 11,250 CC-RC-Quay Street-Derby to William 0 CC-RC-Guay Street-Fitzroy St to Den 800,000 CC-RC-Talford Street (Denby Street 250,000 CC-RC-Talford Street (Denby Street 616,000 CC-RC-Fenhanced School Zone Signage 10 CC-RC-Replace guardrail at various 50,000 CC-RC-Replace guardrail at various	0	No	Not started
CC-RC-Cavell Street-New Exhibition	756,397	Υ	Completed
CC-RC-Dean Street / Elphinstone Street 22,739 CC-RC-Glemmore Road_Neville Hewitt Brid 0 CC-RC-Kent Street Archer Street to 0 CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-Kent Street-Albert Street to 0 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-North Street-Campbell Street 865,000 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Replace guardrail at various 50,000 CC-RC-REPLACE 50,000	21,423	No	Commenced
CC-RC-Glemmore Road_Neville Hewitt Brid	3,982	No	Deferred 2014/15
CC-RC-Kent Street Archer Street to	22,739	Y	Completed
CC-RC-Kent Street-Albert Street to 700,000 CC-RC-Kent Street-Albert Street to CC-RC-Kent Street S	2,401	No	Deferred 2014/15
CC-RC-Kent Street-Albert Street to CC-RC-Lion Creek Road-Luck Avenue t 480,000 CC-RC-McLaughlin St-Splitters Creek to 434,000 CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-North Street-Campbell Street 665,000 CC-RC-Quay Street_Denham St to Wil 11,250 CC-RC-Quay Street_Denham St to Wil 11,250 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Moores Creek Road_Kemgan St Signs 20,000 CC-RC-Replace guardrail at various 50,000 CC-RC-Replace guardrail at various	. 0	Y	Completed
CC-RC-Lion Creek Road-Luck Avenue t	350,677	Y	Completed
CC-RC-McLaughlin St-Splitters Creek to	748	No	Design only
CC-RC-Musgrave Street-Outside centr 50,000 CC-RC-North Street-Campbell Street 685,000 CC-RC-Quay Street_Denham St to Wil 11,250 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Talford Street (Derby Street 616,000 CC-RC-Moores Creek Road_Kemgan St Signs 20,000 CC-RC-Replace guardrail at various 50,000 CC-RC-Replace guardrail at various 50,000 CC-RC-RE-Replace guardrail at various 50,000 CC-RC-RE-Replace guardrail at various 50,000 CC-RC-RE-Replace guardrail at various 50,000 CC-RC-RE-RE-RE-RE-RE-RE-RE-RE-RE-RE-RE-RE-RE-	537,107	Y	Completed
CC-RC-North Street-Campbell Street 685,000	448,523	Y	Completed
CC-RC-North Street-Campbell Street 685,000	. 0	No	Not started
CC-RC-Quay Street_Denham St to Will 11,250 CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street Derby Street 616,000 CC-RC-Enhanced School Zone Signage 1 CC-RC-Moores Creek Road_Kemgan St Signs 20,000 CC-RC-Replace guardrail at various 50,000	217,736	No	Commenced
CC-RC-Quay Street-Derby to William 0 CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street Derby Street 616,000 CC-RF-Enhanced School Zone Signage CC-RF-Moores Creek Road_Kemgan St Signs 20,000 CC-RF-Replace guardrail at various 50,000	12,053	No	In design
CC-RC-Quay Street-Fitzroy St to Den 800,000 CC-RC-Sedborough Street 250,000 CC-RC-Talford Street Derby Street 616,000 CC-RF-Enhanced School Zone Signage CC-RF-Moores Creek Road_Kemgan St Signs 20,000 CC-RF-Replace guardrail at various 50,000	0	No	Deferred 2014/15
ICC-RC-Sedborough Street 250,000 ICC-RC-Taiford Street (Derby Street 816,000 ICC-RF-Enhanced School Zone Signage 1CC-RF-Moores Creek Road_Kemgan St Signs 20,000 ICC-RF-Replace guardrail at various 50,000	5,588	No	On Hold
CC-RC-Talford Street (Derby Street 618,000 ICC-RF-Enhanced School Zone Signage ICC-RF-Moores Creek Road_Kemgan St Signs 20,000 ICC-RF-Reptace guardrafi at various 50,000	269,324	Y	Completed
CC-RF-Enhanced School Zone Signage CC-RF-Moores Creek Road_Kemgan St Signs 20,000 CC-RF-Replace guardrail at various 50,000	587,810	Y	Completed
CC-RF-Moores Creek Road_Kemgan St Signs 20,000 CC-RF-Replace guardrail at various 50,000		No	
CC-RF-Replace guardrail at various 50,000	535	-	Commenced
	32,445	Υ	Completed
CU-RF-Hichardson Rd 20,000	1,285	No	Not started
	17,923	Υ	Completed
ICC-RS-Road Safety Minor Works Progr 80,000	12,989	No	Communeed
JCC-SL-Replace old light fittings al 10,000	5,105	Υ	Completed
JCC-SL-Street Lighting Improvement Program 20,000 ICC-SW-Highway Street-Renshaw St to 5,000	1,964	No	Not started

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Revised Budget	Feb Revised Budget	Expenditure to Date	Completed (Y/N)	Status
JCC-SW-Inlets replacement	50,000	45,591	Y	Completed
JCC-SW-Miles Street-14 Miles Street	200,860	187	No	Designed
JCC-SW-Oakley Street-Dibden Street t	0	0	No	Deferred 2014/15
JCC-SW-Park Street Stage 2-Glenmore	380,000	249,775	No	Commenced
JCC-SW-Rigalsford Park Flood Levy	300,000	3,562	No	Design only
JCC-SW-Rodboro St-Dean St to Water St	-	748	No	Design only
JCC-TL-Dean Street Kemgan Street Inter	165,000	81,676	Y	Completed
JCC-TM-Fitzrov Street Murray Street Inte	170,000	165,048	No	Commerced
JCC-TM-Pilbeam Or	10,000	0	No	Commensed
UWC-AS/SS/SLS-Annual Road Resurfacin	398,500	0	No	Total Françaist cost =
JWC-AS-Johnson Rid seal Floodway		19,286	Y	Completed
JWC-AS-Lawrie St east shoulder Ranger St		51,072	γ	Completed
JWC-AS-Racecourse Rd at Usher Street-Mt Morgan	11,102	11,423	Y	Completed
JWC-AS-Rosewood Avenue-Ash Court to	20.000	17,097	Y	Completed
JWC-AS-Zamia Way-Lillypilly Ave to R	25,000	17,806	Y	Completed
JWC-FP Stewart Street Somerset Road to Bo	0	0	No	Not started
JWC-FP-Johnson Road-End of Existing	226,000	220,037	Y	Completed
JWC-NC-Elizabeth Street-Gracemere	16,000	15,089	Y	Completed
JWC-NC-Macquarie Street-Foster Stree	To be undated	642,840	No	Commenced
UWC-NC-Middle Road-Capricom Street	100,000	91,324	No	Design only-Deferred 2014/15
JWC-RC-Old Baree Road	0	0	No	Not required
JWC-RC-Sheil Crescent-Thompson Ave t	35,000	9,857	Υ	Completed
JWC-RC-Somerset Road-Stewart Street	1,260,000	1,258,631	Y	Completed
JWC-SLS-Capricom St Middle Rd to Johnso	29,500	24,095	Y	Completed
JWC-SLS-Lucas St #140 Lucas St to #184/1		14,045	Y	Completed
JWC-SLS-Lucas St Buxton Drive to #103 Lu	-	18,885	Y	Completed
JWC-SL-Streetlighting Improvement Pr	10,000	0	No	Not started
JWC-SS-Byrnes Parade Piddicks Crossing t		24,322	Υ	Completed
JWC-SS-Chenery St Shell Cresc to Thompso		16,310	γ	Completed
JWC-SS-Coronation Drive-Davis Street	22,000	9,934	Y	Completed
JWC-SS-Dobbs St Byrnes Parade to east St		3,944	Y	Completed
JWC-SS-East St-Darcy St to Half St	0	0	Y	Completed
JWC-SS-lan Besch Drive east & west car p		3,904	Y	Completed
JWC-SS-Mt Morgan Pool Rd to Mt Morgan	0	16,608	Υ	Completed
JWC-SS-Railway Parade Central St to Rail	- O	2,742	Υ	Completed
JWC-SS-Scott St Neil St to Dalley St Mt	0	2,198	Y	Completed
JWC-SS-Thompson Avenue Shell Cresc to Th		12,385	Y	Completed
JWC-SW-11 River Street	80,000	1,772	No	In design
JWC-SW-22 River Street-River St to D	0	1,546	No	Deferred 2014/15
JWC-SWEast Street Mount MerganWor	0	3,445	No	Deferred 2014/15
JWC-5W-Inlets replacement	30,000	41,189	Υ	Completed
JWC-SW-Sydney King Close	1,600	14,200	Y	Completed
JWGW & S-Lucas St Allen St to #197 Lucas		59,546	Υ	Completed
JWCW&SChenery St Shell Cresc to Thompso		54,024	Υ	Completed
JWCW&S-Stewart St Somerset Rd to Dougla		53,458	Y	Completed
JWCWiden shoulders-Johnson Rd-Floodway to Gracemere Creek	The second	52,418	Υ	Completed
AOU Parks Kele Park Softball Electrical	(2,484)	(2,484)	Y	Completed
Heavy Vehicle Detour-Sand Creek Brid Heavy Vehicle Detour-Louisa Creek CH		230 3,293	No No	

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10 NOTICES OF MOTION

Nil

11 URGENT BUSINESS/QUESTIONS

Urgent Business is a provision in the Agenda for members to raise questions or matters of a genuinely urgent or emergent nature, that are not a change to Council Policy and can not be delayed until the next scheduled Council or Committee Meeting.

12 CLOSURE OF MEETING