WOLLONGONG CITY COUNCIL

Traffic Committee Meeting Agenda









TUESDAY 11 MAY 2021 9.15 AM LEVEL 10

PURPOSE OF MEETING

The City of Wollongong Traffic Committee is not a Committee of Wollongong City Council however a Technical Committee of Transport for NSW (TfNSW). The Committee operates under the authority conferred to Council by TfNSW under the Transport Administration Act 1988. Council has resolved to manage the Traffic Committee under a Charter which sets out the membership, timelines for the preparation of the Agenda and the distribution of Minutes, in accordance with TfNSW (previously RMS) document 'A guide to the delegation to councils for the regulation of traffic' (including the operation of Traffic Committees.)

Council has been delegated certain powers, from TfNSW, regarding traffic matters upon its local roads. A condition of this delegation is that Council must consider the Traffic Committee recommendations.

There are four permanent members of the Traffic Committee, each of whom has a single vote only.

- The members are representatives of the NSW Police Force, Transport for NSW, the Local State Member of Parliament (for the location of the issue to be voted upon), and a representative of Wollongong City Council.
- If TfNSW or NSW Police Force disagrees with any Traffic Committee recommendation, or Council's resolution
 on any Traffic Committee recommendation, that member may lodge an appeal with the Regional Traffic
 Committee for determination. The appeal must be lodged in writing within 14 days of Council's resolution. Any
 action relative to any issue under appeal must cease until the matter is determined. The Regional Traffic
 Committee is chaired by an independent chairperson and submissions and representations are welcomed from
 all interested parties.





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1 STANDING AGENDA ITEMS

1.1 Welcome

1.2 Acknowledgement of Country

"We pay our respects to and acknowledge the traditional custodians of the Land on which we meet, and pay our respects to Elders past, present and future. We also extend our respects to Aboriginal and Torres Strait Islander people present here today."

1.3 Declarations of Interest

1.4 Apologies

1.5 Confirmation of Minutes Arising from Previous Minutes

Confirmation of Minutes of Meeting Held on 20 April 2021.

1.6 Business Arising from Previous Meeting

2 GENERAL BUSINESS

2.1 FARMBOROUGH HEIGHTS Waples Road - Ward 3

Waples Road, Farmborough Heights - Millingaa Park Timed Parking Restrictions

BACKGROUND

Council has received a customer request regarding on street parking on Waples Road near Murrogun Crescent adjacent the Millingaa Park playground. The customer identified a lack of parking availability on Waples Road near the playground during school days due to high parking demand from senior students attending Cedars Christian College. This results in playground visitors with small children and prams needing to travel a significant distance on the grass verge to the playground.

A two hour parking restriction during weekdays for four car spaces directly adjacent to the playground is proposed to enhance access for users.

CONSULTATION

No consultation is required.

PROPOSAL

Installation of four, 2-hour parking (8:30am-4:30pm Monday to Friday) car spaces on the south side of Waples Road between Murrogun Crescent and Coachwood Drive directly adjacent to the playground starting from the existing No Stopping (L) sign.

2.2 BULLI Service Road opposite Godolphin Street - Ward 1

Service Road opposite Godolphin Street, Bulli – Change Timed Loading Zone to an Untimed Loading Zone BACKGROUND



The Bulli Beach Café owners have requested that the timed loading zone (6am-11am) located at the cul-de-sac of the service road opposite Godolphin Street be changed to a full-time loading zone. The café owners have requested the change, as there are several deliveries in the afternoon period also.

CONSULTATION

No further consultation is required.

PROPOSAL

Remove the times from the loading zone at the cul-de-sac adjacent to Bulli Beach Café.

2.3 GWYNNEVILLE Madoline Street - Ward 2

Western end of Madoline Street from Paulsgrove Street to Wollongong Botanic Garden, Gwynneville – Proposed Parking Bays

BACKGROUND

In response to feedback from Parking Compliance Officers, Council is proposing parking bay line marking and associated signage at the western end of Madoline Street, from Paulsgrove Street to Wollongong Botanic Garden, Gwynneville. The installation of parking bay line marking will ensure consistency with nearby parking treatments.

CONSULTATION

Traffic and Transport Unit have consulted with Botanic Gardens, who support the proposed parking arrangement. A community consultation letter and plan will be sent shortly to adjacent residents. We anticipate there will be no issues with the proposal given there are no proposed changes to existing parking restrictions.

PROPOSAL

Drawing SK01 be approved.

2.4 BALGOWNIE New Mount Pleasant Road - Ward 3

New Mount Pleasant Road, Balgownie – Install Bus Zone at existing stop

BACKGROUND

The bus stop sign located at 14 New Mount Pleasant Road have gone missing and it is planned that bus zone signs be installed to replace them.

CONSULTATION

Consultation with the residents of 12 and 14 New Mount Pleasant Road has been carried out.

PROPOSAL

Install a bus zone 15m in length on the departure side of a wide existing driveway at 14 New Mount Pleasant Road.

3 REGULATION OF TRAFFIC

There are no Regulation of Traffic items.

4 DESIGN MATTERS

4.1 MOUNT KEIRA Mount Keira Road – Ward 2

Intersection of Mount Keira Road and Spring Street, Mount Keira – Proposed Roundabout, Blisters and Signage

BACKGROUND



This intersection sees a number of loss of control crashes and the project is being funded under the NSW Government Safer Roads Program. Mount Keira Road and Spring Street are both used as a bus route, so a semi-mountable roundabout is proposed as the most appropriate solution for improving safety at this intersection. Mount Keira Road is a popular on-road cycle route so bicycle safety has been addressed in the design. The proposed design consists of:

- Semi-mountable roundabout
- Kerb extensions
- Regrading of road surface to improve crossfalls
- Signage and line marking
- Tree trimming to improve sight lines

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL

Plans PJ-4016 – 6895_C111_B and PJ-4016 – 6895_SK012_B be approved.

4.2 WOLLONGONG Mercury Street - Ward 2

Intersection of Mercury Street and Greenacre Road, Wollongong – Proposed Roundabout, Kerb Extensions, Blisters and Signage

BACKGROUND

Mercury Street is a collector road running between Foley Street, Throsby Drive and Crown Street, connecting the northern and western suburbs of Wollongong with the CBD and Hospital precinct. This creates a substantial number of turning conflicts at the existing give-way controlled T-intersection of Greenacre Road. The project is being funded under the NSW Government Safer Roads Program to address the current crash pattern and improve safety of pedestrians in this area. Mercury Street is used as a bus route, so a semi-mountable roundabout is proposed as the most appropriate solution for improving safety at this intersection. The proposed design consists of:

- Semi-mountable roundabout
- Kerb extensions
- Kerb ramps
- Regrading of road surface to improve crossfalls
- Signage and Line marking
- Relocation of existing southbound bus stop

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL

Plans PJ-4018 – 6894-C111-B and PJ-4018 – 6894-SK012-B be approved.

4.3 WOLLONGONG Denison Street - Ward 2

Denison Street, Wollongong – Road Safety Upgrades Including a Roundabout and Multiple Kerb Blisters with Kerb Ramps

BACKGROUND

Denison Street provides an alternate route for traffic outside of the CBD. The main issues on this street are vehicle speed and safe pedestrian crossing locations. Grant funding has been obtained for the safety upgrades of Denison Street under the NSW Government Safer Roads Program. To address the current crash patterns and improve safety in the area a semi-mountable roundabout is proposed at the intersection of Denison Street and Loftus Street. Kerb blisters with kerb ramps are proposed near the Hercules Street intersection and on the south western side of the existing Robinson Street/Victoria Street roundabout to address pedestrian safety. The proposed design consists of:

- Semi-mountable roundabout
- Kerb extensions



- Kerb ramps
- Minor regrading of road surface at roundabout to improve crossfalls
- Signage and Line marking

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL

Plans PJ-4021 – 6893-C111-B, PJ-4021 – 6893-C112-B, PJ-4021 – 6893-C021-B and PJ-4021 – 6893-SK013-B be approved.

4.4 WOLLONGONG Burelli Street – Ward 2

Intersection of Burelli Street and Church Street, Wollongong – Proposed Traffic Signal Modifications and Associated Footpath Works

BACKGROUND

The Burelli Street / Church Street intersection has had a number of pedestrian related crashes recorded. Traffic signal modifications are proposed to address this issue by introducing a scramble crossing phase to improve pedestrian safety. The project is being funded under the NSW Government Safer Roads Program. The proposed design consists of:

- Traffic control signal modification to include a scramble crossing phase and countdown timers
- Kerb ramps
- Signage
- Line marking
- Footpath upgrade

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL

Plan PJ-4017 - 6914 SK01 1 be approved.

4.5 WEST WOLLONGONG Abercrombie Street – Ward 2

Abercrombie Street, West Wollongong - Street Cycling Route Improvements

BACKGROUND

It is proposed to provide upgraded cycling and shared path facilities on Abercrombie Street. Abercrombie Street is a key link between the existing shared user paths on the Princes Highway and the expanding shared user path network proposed to the north.

The proposed route has several treatments due to the varying nature of the road. These are:

- In the southern section we are proposing advisory signage and pavement markings, along with warning signage
- In the steeper middle section we are also proposing to install a cyclist climbing lane. This will allow road users to safely pass climbing cyclists using the road
- In the northern section, between Gundarun Street and Mount Keira Road, we are proposing to install an
 off-road shared path link to enable riders to ride off-road. We are also proposing additional warning and
 advisory signage

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL



Plan 6871 1 be approved.

4.6 GWYNNEVILLE Foley Street - Ward 2

Foley Street, Gwynneville - Proposed Blisters, Signage and Line Marking

BACKGROUND

As part of the construction for proposed blisters and kerb ramps along Foley Street, Gwynneville, Council is also proposing additional signage/line marking. This project has previously been to traffic committee. This project is being resubmitted to capture recent changes including:

- Painted chevron on Foley Street and removal of "Keep Clear" line marking at Lucinda Street
- Stop line at Kiernan Street (existing Stop sign control)
- Give way sign at Lucinda Street

CONSULTATION

Consultation is a requirement of the design process.

PROPOSAL

Plan 5001_SK01_2 be approved.

5 DEVELOPMENT MATTERS

5.1 AVONDALE Avondale Road – Ward 3

Avondale Road, Avondale - Line Marking

BACKGROUND

A new residential development to the south west of the railway level crossing on Avondale Road has a Consent condition requiring the setting out of a right turn facility for vehicles entering the development. The reason is to reduce or eliminate any queueing back to the level crossing as a result of drivers making a right turn into the site from Avondale Road. A basic line marking arrangement is acceptable in these circumstances.

This proposal has previously been discussed at traffic committee where the committee raised concerns over queuing across the nearby level crossing.

CONSULTATION

The developer (or their traffic consultant) will attend the Traffic Committee meeting to discuss the proposal along with Traffic Engineer from Council's Development Engineering team.

PROPOSAL

Plan P4650.001D be approved.

5.2 KEMBLA GRANGE Darkes Road - Ward 3

Darkes Road, Kembla Grange – Sanctuary Views Stage 4 – DA-2020-989 – CS-2021/1

BACKGROUND

As a requirement of the development consent the developer is required to submit a signs and lines plans plan for Council approval.

The subdivision is located between Darkes Road and West Dapto Road and forms part of a larger 3 staged subdivision approved under DA-2018/104. The previous three stages have been completed and the land and roads registered.



The road design and layout has been prepared and approved as part of the development application assessment. The plans are designed in accordance with AUSTROADS Guide to Road Design, Council's Development Control Plan and Council's Subdivision Policy.

The 16 lot subdivision includes a new road connecting to Darkes Road and three extensions of existing roads and associated intersections which connect to the completed subdivision.

With regard to the proposed Interim Darkes Road/Road 11 Priority-Controlled Intersection; As indicated in Section 4.7 of the TIA, under strict application of Austroads guidelines, the interim Darkes Road/Road 11 priority-controlled intersection requires BAR and BAL turn treatments.

However, it is acknowledged that it would not be possible or reasonable to provide this type of intersection in this location due to the following design constraints:

- The location of utilities (ie. power poles).
- The existing Darkes Road alignment through the intersection, including carriageway and road reserve widths.
- The location of the future Darkes Road/Road 11 roundabout.

While the proposed interim intersection does not meet typical requirements for BAR and BAL turn treatments, the following is noted:

- The intersection location complies with the approved neighbourhood plan.
- The Road 11 location and alignment optimises cooperation from adjoining landowners.
- The intersection has been designed to allow a B99 design vehicle to pass a right turning heavy vehicle rigid (HRV).
- HRV turn movements at the interim Darkes Road/ Road 11 priority-controlled intersection, show that an HRV does not cross the centreline of either road, and that a HRV can prop in Darkes Road to turn right while a B99 vehicle continues around it (see swept paths).
- Sight distances exceed the Austroads minimum requirements as follows:
 - An approach sight distance (ASD) of 83 metres is required under Austroads guidance. A review of the plans found that 190 metres is available.
 - The required safe intersection sight distance (SISD) is 214 metres. A review of the development plans indicates that available SISD exceeds the SISD requirement.
- Based on the submission of a pre-lodgement for the adjacent site (PL-2021/24) and intent from landowners to proceed with development, it is expected that the roundabout would be provided in the coming years.
- The proposed give way intersection would provide an intersection with good sight distance and vehicle manoeuvrability in the interim until such time as the ultimate intersection treatment is provided.

CONSULTATION

Consultation and notification of the development is undertaken during the development application assessment. A traffic engineer from Council's Development Engineering Team will attend the meeting to discuss this proposal in detail.

PROPOSAL

The following signage and linemarking is proposed for the interim Darkes Road / Road 11 priority controlled intersection as a condition of Construction Certificate application CS-2021/1:

- Give Way Line (TB line) on Road 11 at intersection.
- Give Way (R1-2) sign on Road 11 at intersection.
- Bi-Direction Hazard Marker (D4-2-3) on Darkes Road at intersection facing Road 11.
- T-intersection Beyond a Curve (W2-14(L)) sign on Road 11, 80m prior to give way line.

Plan 1799C-CC-S4-0601 be approved.

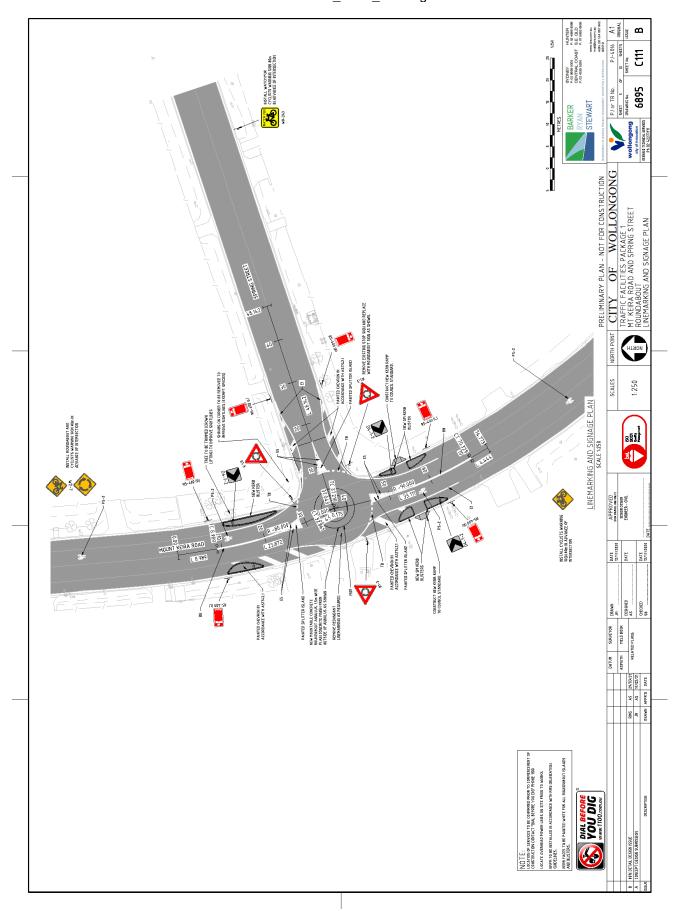


Madoline Street, Gwynneville - Proposed Parking Bays - Drawing SK01



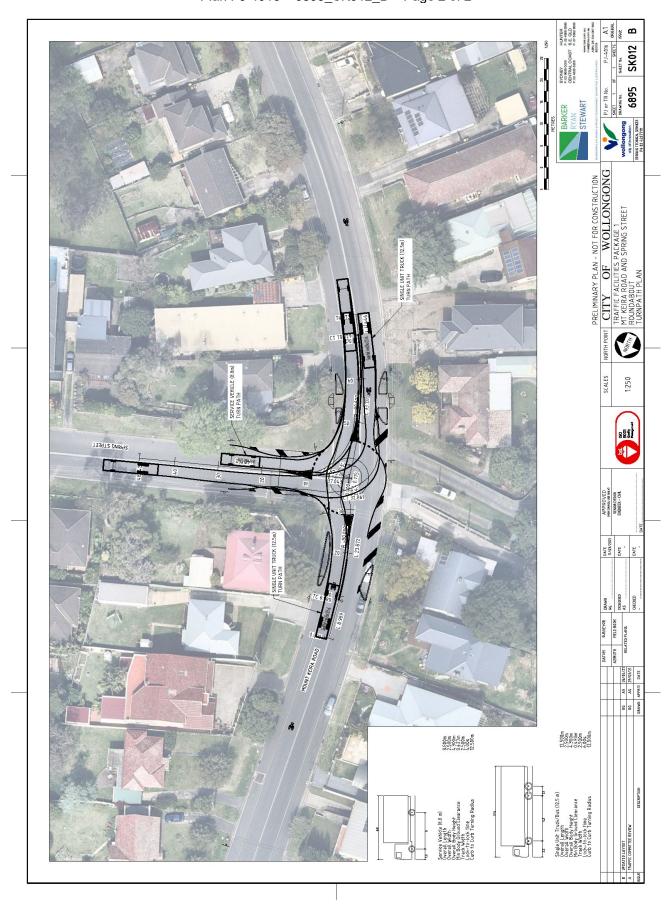


Intersection of Mount Keira Road and Spring Street, Mount Keira – Proposed Roundabout, Blisters and Signage – Plan PJ-4016 – 6895_C111_B – Page 1 of 2



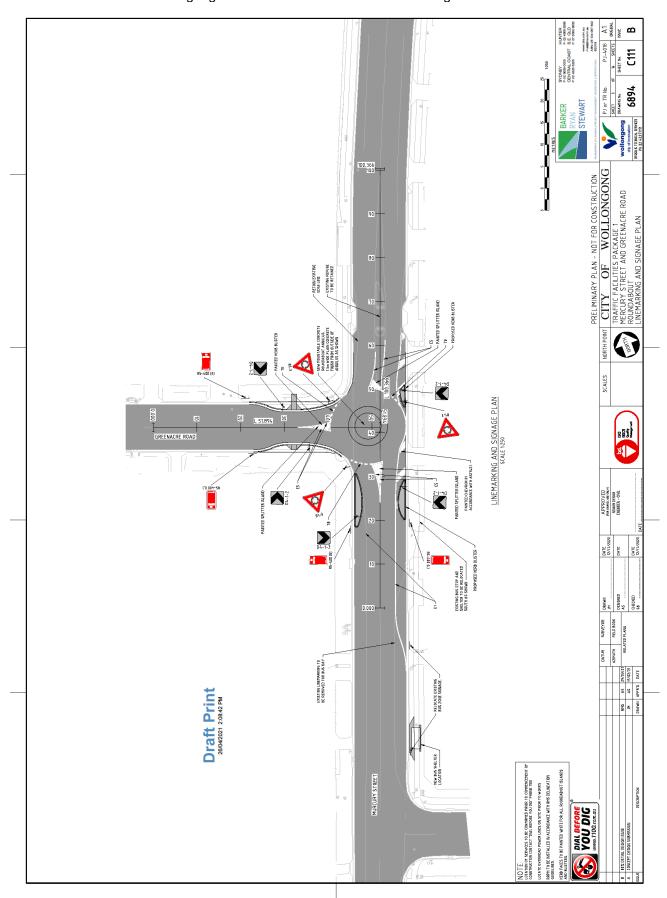


Intersection of Mount Keira Road and Spring Street, Mount Keira – Proposed Roundabout, Blisters and Signage – Plan PJ-4016 – 6895_SK012_B – Page 2 of 2



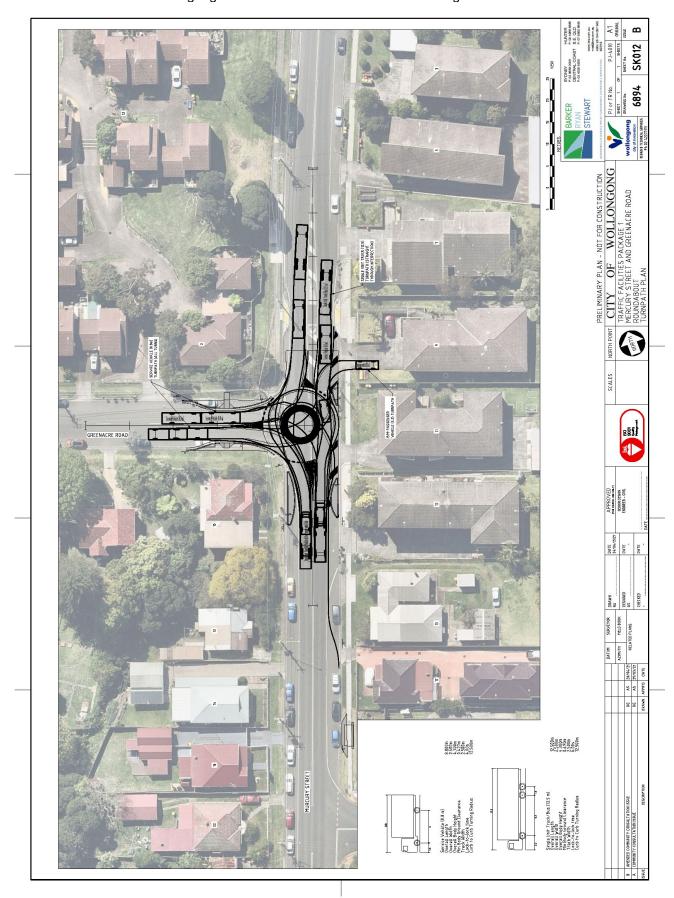


Intersection of Mercury Street and Greenacre Road, Wollongong – Proposed Roundabout, Kerb Extensions, Blisters and Signage – Plan PJ-4018 – 6894-C111-B – Page 1 of 2



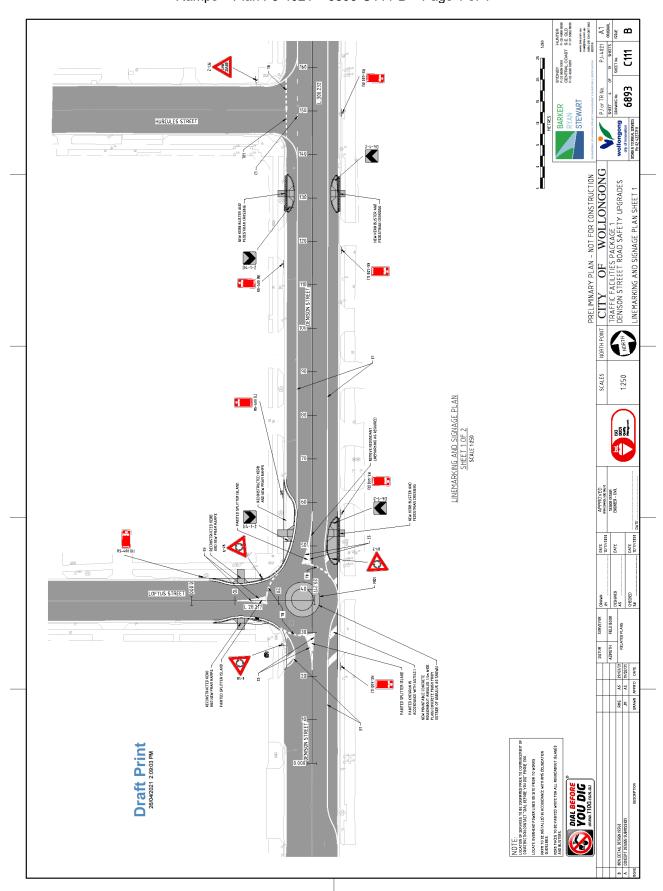


Intersection of Mercury Street and Greenacre Road, Wollongong – Proposed Roundabout, Kerb Extensions, Blisters and Signage – Plan PJ-4018 – 6894-SK012-B – Page 2 of 2



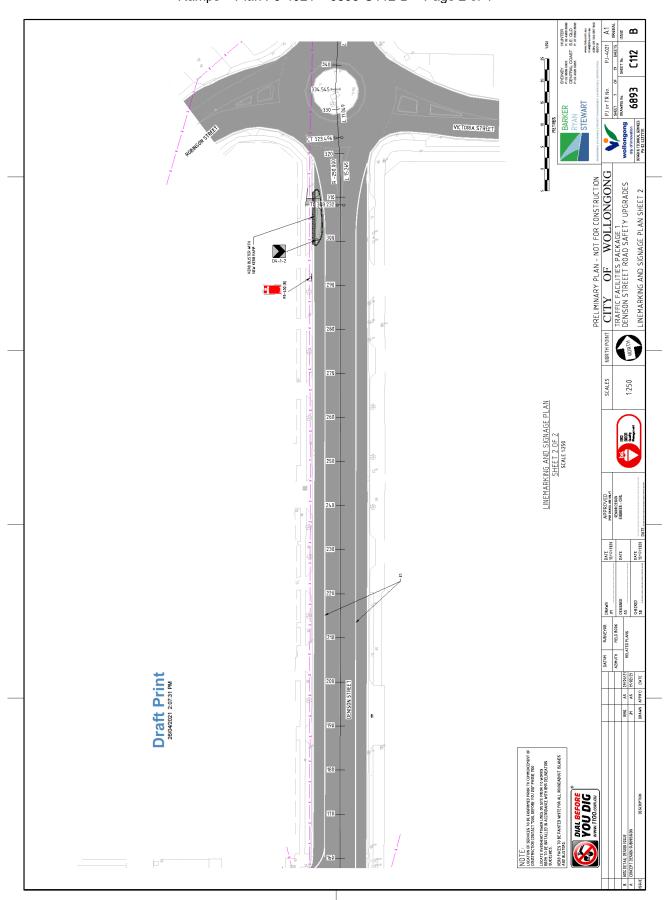


Denison Street, Wollongong – Road Safety Upgrades Including a Roundabout and Multiple Kerb Blisters with Kerb Ramps – Plan PJ-4021 – 6893-C111-B – Page 1 of 4





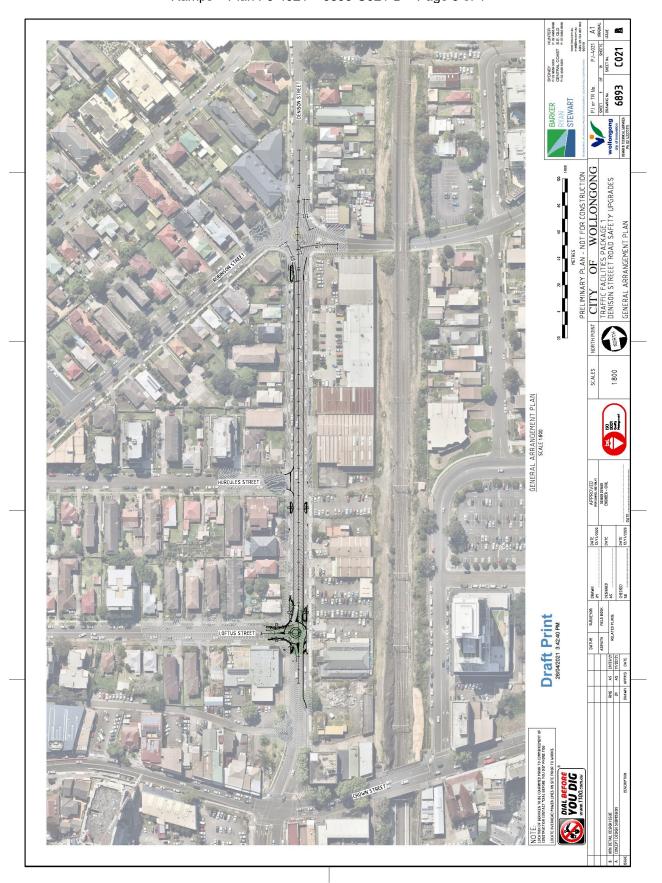
Denison Street, Wollongong – Road Safety Upgrades Including a Roundabout and Multiple Kerb Blisters with Kerb Ramps – Plan PJ-4021 – 6893-C112-B – Page 2 of 4





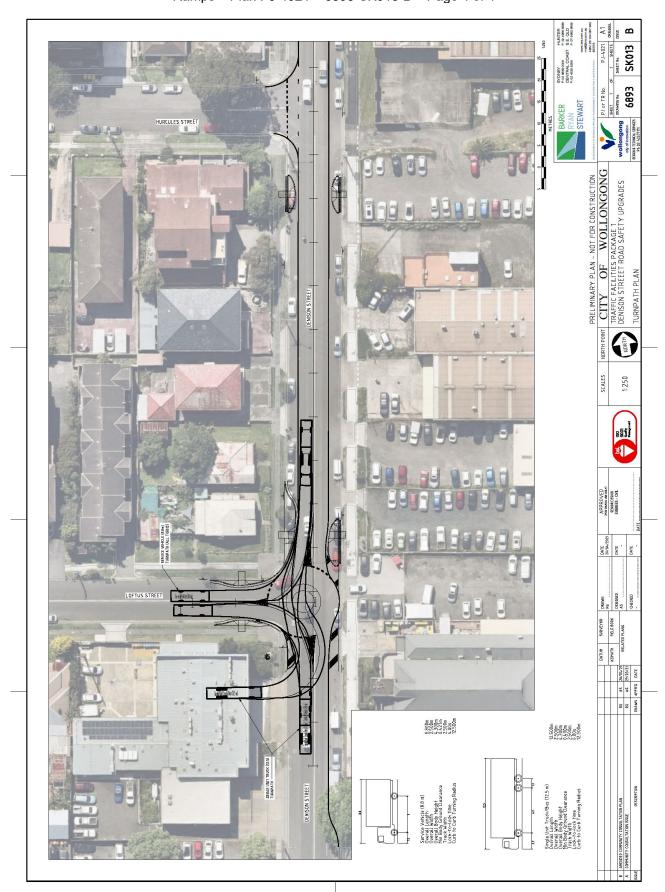


Denison Street, Wollongong – Road Safety Upgrades Including a Roundabout and Multiple Kerb Blisters with Kerb Ramps – Plan PJ-4021 – 6893-C021-B – Page 3 of 4





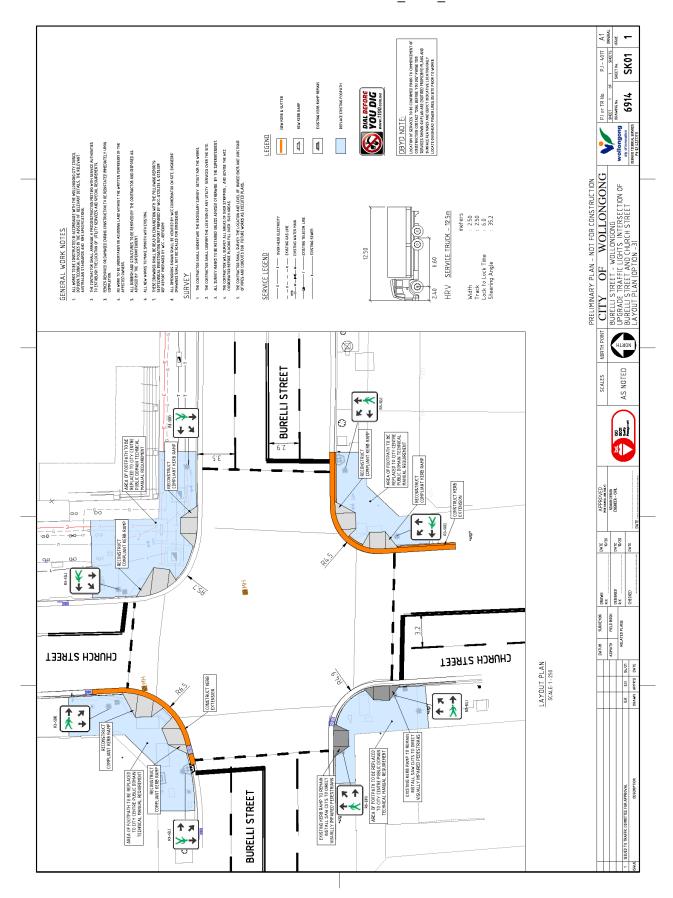
Denison Street, Wollongong – Road Safety Upgrades Including a Roundabout and Multiple Kerb Blisters with Kerb Ramps – Plan PJ-4021 – 6893-SK013-B – Page 4 of 4





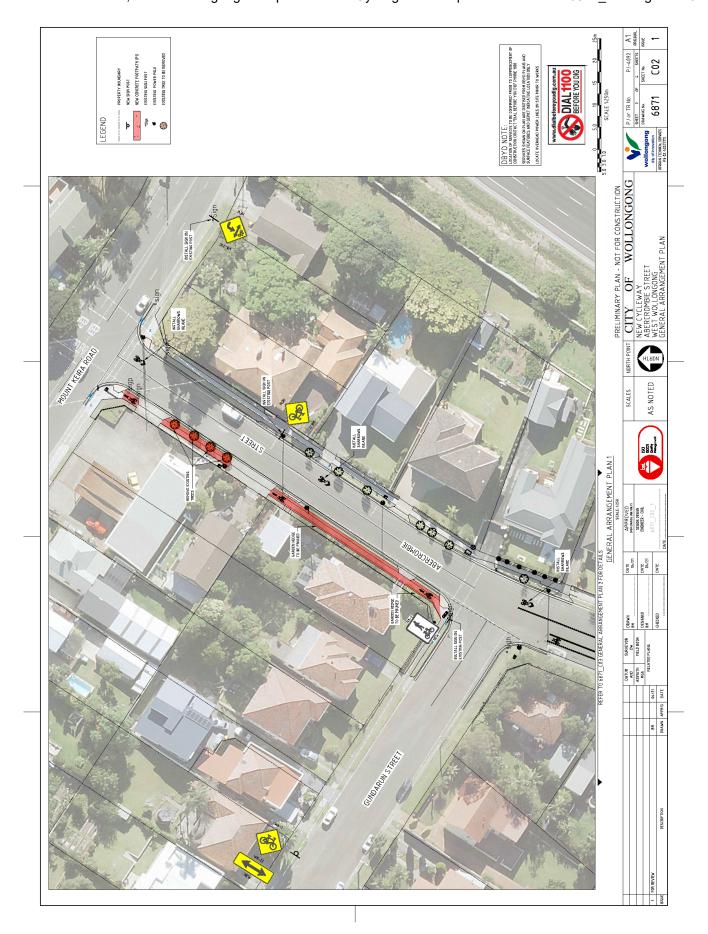


Intersection of Burelli and Church Street, Wollongong – Proposed Traffic Signal Modifications and associated Footpath Works - Plan PJ-4017 – 6914 SK01 1



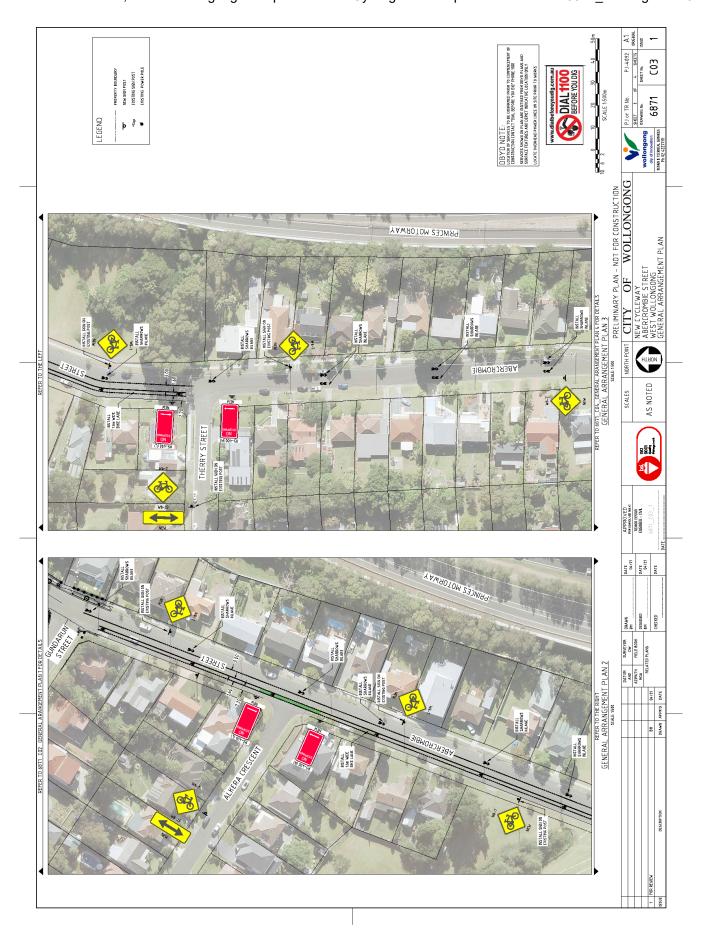


Abercrombie Street, North Wollongong – Proposed Street Cycling Route Improvements - Plan 6871_1 – Page 1 of 3





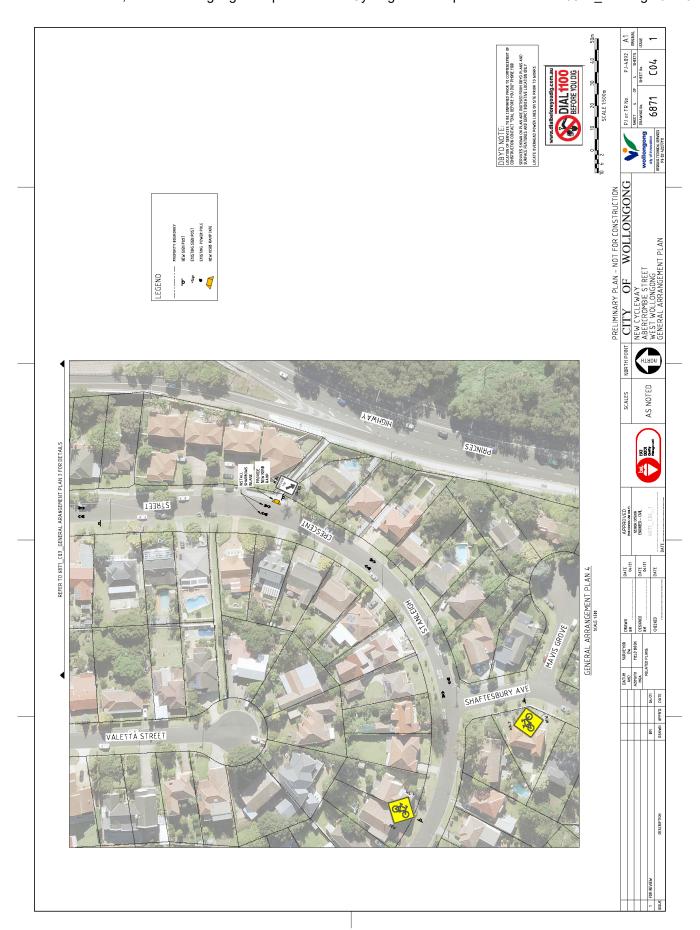
Abercrombie Street, North Wollongong – Proposed Street Cycling Route Improvements - Plan 6871_1 – Page 2 of 3





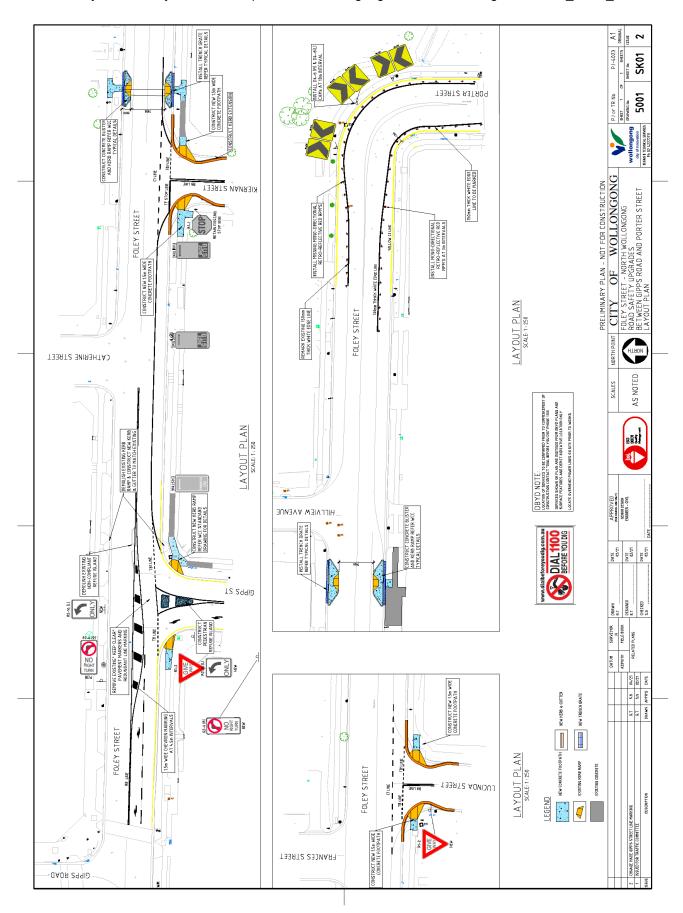


Abercrombie Street, North Wollongong – Proposed Street Cycling Route Improvements - Plan 6871_1 – Page 3 of 3



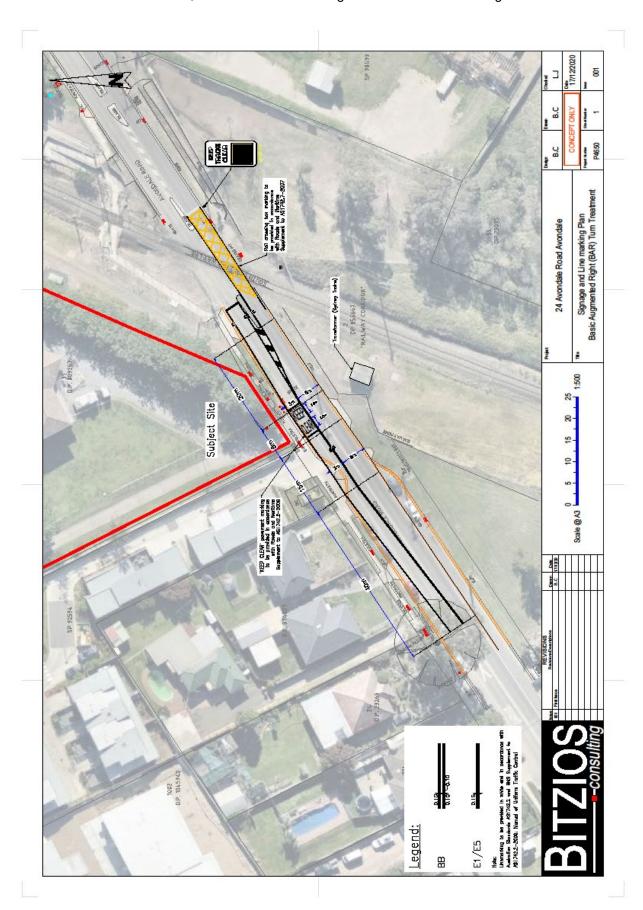


Foley Street, Gwynneville - Proposed Blisters, Signage and Line Marking- Plan 5001_SK01_2





Avondale Road, Avondale – Line Marking – Plan P4650.001D – Page 1 of 5





Avondale Road, Avondale - Line Marking - Page 2 of 5

MOVEMENT SUMMARY

Site: 101 [2036_AM_With_Development]

Avondale Road / Development Access Priority-Controlled Intersection Giveway / Yield (Two-Way)

Movement Performance - Vehicles												
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average	
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed	
East	Avondale i	veh/h	%	v/c	sec		veh	m		per veh	km/h	
5	T1	399	0.0	0.212	0.1	LOSA	0.1	0.9	0.04	0.03	59.6	
6	R2	12	0.0	0.212	9.1	LOSA	0.1	0.9	0.04	0.03	17.2	
Appro	ach	411	0.0	0.212	0.3	NA	0.1	0.9	0.04	0.03	55.8	
North:	Developn	nent Access										
7	L2	45	0.0	0.050	1.5	LOSA	0.2	1.3	0.44	0.33	16.6	
9	R2	5	0.0	0.050	4.5	LOSA	0.2	1.3	0.44	0.33	16.6	
Appro	ach	51	0.0	0.050	1.8	LOSA	0.2	1.3	0.44	0.33	16.6	
West:	Avondale	Road										
10	L2	1	0.0	0.211	8.9	LOSA	0.0	0.0	0.00	0.00	57.3	
11	T1	414	0.0	0.211	0.0	LOSA	0.0	0.0	0.00	0.00	59.9	
Appro	ach	415	0.0	0.211	0.0	NA	0.0	0.0	0.00	0.00	59.9	
All Ve	hicles	876	0.0	0.212	0.3	NA	0.2	1.3	0.04	0.03	50.5	

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay Includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Avondale Road, Avondale - Line Marking - Page 3 of 5

MOVEMENT SUMMARY

Site: 101 [2036_AM_With_Development]

Avondale Road / Development Access Priority-Controlled Intersection Giveway / Yield (Two-Way)

Movement Performance - Vehicles											
Mov	OD	Demand		Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
		veh/h	%	v/c	sec		veh	m		per veh	km/h
	Avondale i										
5	T1	399	4.8	0.219	0.1	LOSA	0.1	0.9	0.04	0.03	59.6
6	R2	12	0.0	0.219	9.2	LOSA	0.1	0.9	0.04	0.03	17.2
Appro	ach	411	4.7	0.219	0.3	NA	0.1	0.9	0.04	0.03	55.8
North:	Develop	nent Access									
7	L2	45	0.0	0.051	1.5	LOSA	0.2	1.3	0.45	0.34	16.6
9	R2	5	0.0	0.051	4.7	LOSA	0.2	1.3	0.45	0.34	16.6
Appro	ach	51	0.0	0.051	1.9	LOSA	0.2	1.3	0.45	0.34	16.6
West:	Avondale	Road									
10	L2	1	0.0	0.217	8.9	LOSA	0.0	0.0	0.00	0.00	57.3
11	T1	414	4.8	0.217	0.0	LOSA	0.0	0.0	0.00	0.00	59.9
Appro	ach	415	4.8	0.217	0.0	NA	0.0	0.0	0.00	0.00	59.9
All Vehicles		876	4.5	0.219	0.3	NA	0.2	1.3	0.04	0.03	50.5

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay Includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Avondale Road, Avondale - Line Marking - Page 4 of 5

MOVEMENT SUMMARY

Site: 101 [2036_PM_With_Development]

Avondale Road / Development Access Priority-Controlled Intersection Giveway / Yield (Two-Way)

Mov	OD	Demand	Flows	Deg.	Average	Level of	95% Back	of Queue	Prop.	Effective	Average
ID	Mov	Total veh/h	HV %	Satn v/c	Delay sec	Service	Vehicles veh	Distance m	Queued	Stop Rate per veh	Speed km/l
East: /	Avondale i	Road									
5	T1	459	0.0	0.265	0.2	LOSA	0.4	2.9	0.10	0.07	59.0
6	R2	40	0.0	0.265	8.9	LOSA	0.4	2.9	0.10	0.07	17.
Appro	ach	499	0.0	0.265	0.9	NA	0.4	2.9	0.10	0.07	49.
North:	Develop	nent Access									
7	L2	17	0.0	0.018	1.1	LOSA	0.1	0.5	0.40	0.26	16.
9	R2	2	0.0	0.018	4.7	LOSA	0.1	0.5	0.40	0.26	16.
Appro	ach	19	0.0	0.018	1.5	LOSA	0.1	0.5	0.40	0.26	16.
West:	Avondale	Road									
10	L2	4	0.0	0.181	8.9	LOSA	0.0	0.0	0.00	0.01	57.
11	T1	353	0.0	0.181	0.0	LOSA	0.0	0.0	0.00	0.01	59.
Appro	ach	357	0.0	0.181	0.1	NA	0.0	0.0	0.00	0.01	59.
All Vehicles		875	0.0	0.265	0.6	NA	0.4	2.9	0.07	0.05	50.

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay Includes Geometric Delay.

Gap-Acceptance Capacity: SIDRA Standard (Akcelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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MOVEMENT SUMMARY

Site: 101 [2036_PM_With_Development]

Avondale Road / Development Access Priority-Controlled Intersection Giveway / Yield (Two-Way)

Movement Performance - Vehicles											
Mov	OD	Demand		Deg.	Average	Level of	95% Back		Prop.	Effective	Average
ID	Mov	Total	HV	Satn	Delay	Service	Vehicles	Distance	Queued	Stop Rate	Speed
East	Avondale i	veh/h	%	v/c	sec		veh	m		per veh	km/h
5	T1	459	4.8	0.272	0.2	LOSA	0.4	3.0	0.10	0.08	59.0
6	R2	40	0.0	0.272	8.9	LOSA	0.4	3.0	0.10	0.08	17.2
Appro	ach	499	4.4	0.272	0.9	NA	0.4	3.0	0.10	0.08	49.3
North:	Developn	nent Access									
7	L2	17	0.0	0.019	1.2	LOSA	0.1	0.5	0.41	0.26	16.6
9	R2	2	0.0	0.019	4.9	LOSA	0.1	0.5	0.41	0.26	16.6
Appro	ach	19	0.0	0.019	1.6	LOSA	0.1	0.5	0.41	0.26	16.6
West	Avondale	Road									
10	L2	4	0.0	0.187	8.9	LOSA	0.0	0.0	0.00	0.01	57.3
11	T1	353	4.8	0.187	0.0	LOSA	0.0	0.0	0.00	0.01	59.9
Appro	ach	357	4.7	0.187	0.1	NA	0.0	0.0	0.00	0.01	59.8
All Vehicles		875	4.5	0.272	0.6	NA	0.4	3.0	0.07	0.05	50.8

Site Level of Service (LOS) Method: Delay (RTA NSW). Site LOS Method is specified in the Parameter Settings dialog (Site tab). Vehicle movement LOS values are based on average delay per movement.

Minor Road Approach LOS values are based on average delay for all vehicle movements.

NA: Intersection LOS and Major Road Approach LOS values are Not Applicable for two-way sign control since the average delay is not a good LOS measure due to zero delays associated with major road movements.

SIDRA Standard Delay Model is used. Control Delay Includes Geometric Delay.

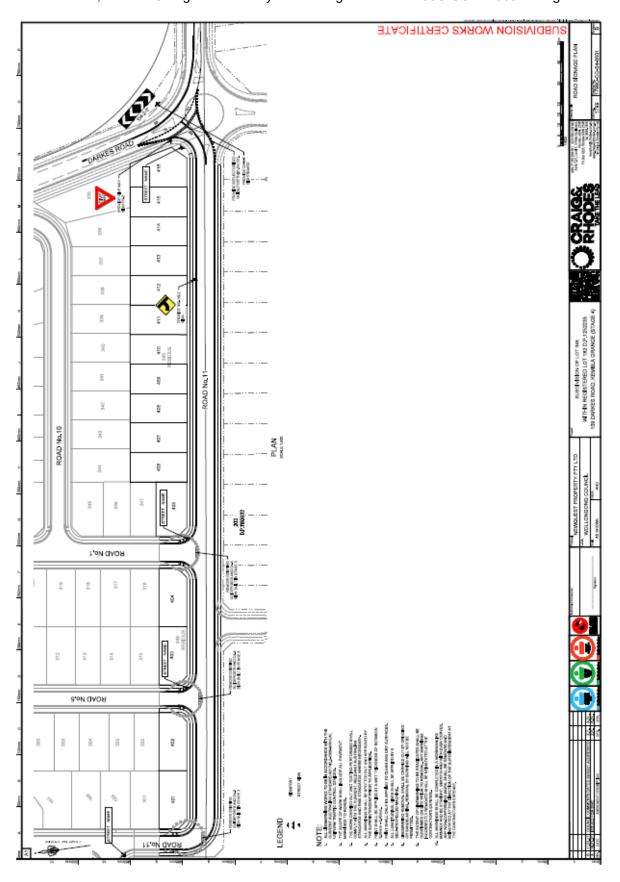
Gap-Acceptance Capacity: SIDRA Standard (Akçelik M3D).

HV (%) values are calculated for All Movement Classes of All Heavy Vehicle Model Designation.

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Darkes Road, Kembla Grange – Sanctuary Views Stage 4 – Page 2 of 2

