

Lockyer Valley Regional Council

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Our Ref: 5007706
Related Document: LIC2025/0087
Enquiries: Chamila Sirimanna
Contact: 5466 3501

4 April 2025

Energex Limited
26 Reddacliffe Street
NEWSTEAD QLD 4006

qld.planning@altusgroup.com.au

Dear Sir/Madam

ACKNOWLEDGMENT OF PROPOSED GENERIC WORKS TRAFFIC GUIDANCE SCHEME SUITE – 2025/26 ENERGEX ANNUAL BLANKET PERMIT

We refer to your submission received by Lockyer Valley Regional Council (Council) on 1 April 2025 for works at various locations within the Lockyer Valley Region and wish to advise that Council does not object to the supplied Traffic Guidance Scheme Suite. Implementation is subject to the following conditions:

- Energex must provide Council with a current copy of their public liability insurance, as the one provided expires on the 30 April 2025. And does not cover them for the 2025/26 financial year.
- Council must be notified when a full road closure is required and be provided a site generic traffic guidance scheme/traffic management plan before the works can proceed.

The Applicant shall indemnify and keep indemnified the Council, their servants and agents against all actions, proceedings, claims, demands, costs, losses, damages, liabilities and expenses which may be brought against the Council, their servants and agents may incur, sustain, expend or be put to from incidents arising out of and occurring during that period of time of this actual activity by the Applicant whether in respect of any loss of life or injury to any person or loss or damage to any property and whether such loss of life or of injury to any person or loss or damage to any property be occasioned by the negligence, wilful act or default of the Lockyer Valley Regional Council, their servants and agents or otherwise howsoever and the applicant shall hereby release and discharge the Council, their servants and agents from all such actions, proceedings, claims, demands, costs, losses, damages, liabilities or expenses which but for the provisions hereof, might be brought against or made upon the Council, their servants and agents.

1. This Letter of Acknowledgement is applicable to the document/s listed in Table 1.

| Document Title | Traffic Control Company | TMD Name | TMD Number | Date |
|-------------------------------|-------------------------|-------------|---------------|------------|
| Altus Group Generic TGS Suite | Altus Traffic | Simon Amdal | OP632 | 03/01/2025 |

Table 1 - Documents subject to this Acknowledgement Letter

- All references to the Manual of Uniform of Traffic Control Devices ("MUTCD") Part 3 Works on Roads and the Queensland Guide to Temporary Traffic Management (QGTTM) herein shall be the version current at the time of implementation. The applicant must ensure that traffic management is provided in accordance with the MUTCD Part 3 and the Queensland Guide to Temporary Traffic Management (QGTTM) at all times where works are to occur on road.
- 3. Prior to the implementation of the Traffic Guidance Scheme ("TGS") referenced in Table 1, the Competent person with a current and valid Traffic Management Design ("TMD") competency must perform a site inspection to verify the assumed site conditions for each associated work area. Where the site conditions require the revision of the traffic management proposed, the Competent person must amend the TGS in accordance with Queensland Guide to Temporary Traffic Management (QGTTM) and the MUTCD Part 3. The revised TGS and any supporting documentation must be certified by a Competent person and submitted to Council.
- 4. The date and time of the proposed works must be in accordance with your request. Any deviation from this requires written notification to, and approval from, Council.
- 5. This acknowledgement letter shall not be interpreted as approvals by other entities (i.e. Queensland Police Service, Department of Transport and Main Roads) or any other government department or service authority. Likewise, State Government or other approval shall not be interpreted as Council's approval.
- 6. All works shall be carried out in accordance with relevant State Government standards including the Work Health & Safety Act 2011, MUTCD (Queensland), Part 3 and Transport Operations (Road Use Management) Act 1995 and Regulations and the Queensland Guide to Temporary Traffic Management (QGTTM).
- 7. The Queensland Police, Fire and Emergency and Ambulance Services shall be advised prior to commencement of works.
- 8. All police directions shall be obeyed. The applicant must submit any QPS permits to Council.
- 9. A copy of your daily diary, must be retained on site for the duration of the works, and must contain the following documents:
 - Installation and removal (see Section 2.5 of the MUTCD Part 3) and Queensland Guide to Temporary Traffic Management (QGTTM); and

- Operation (see Section 2.6 of the MUTCD Part 3) and the Queensland Guide to Temporary Traffic Management (QGTTM).
- 10. If works continue overnight, the appropriate long-term signage layout must be used.
- 11. The applicant is advised that a number of roads within the Lockyer Valley Region are State-Controlled Roads. Approval from Queensland Department of Transport and Main Roads is required if working on these roads.

This Acknowledgment Letter is valid for the 2025/26 financial year and expires midnight 30 June 2026. Council will require a new application to be submitted for the following year before the expiry date.

Should you require any further information in regard to the above please contact Council's Asset Engineer, Chamila Sirimanna on 07 5466 3501 or Customer Service Centre on 1300 005 872.

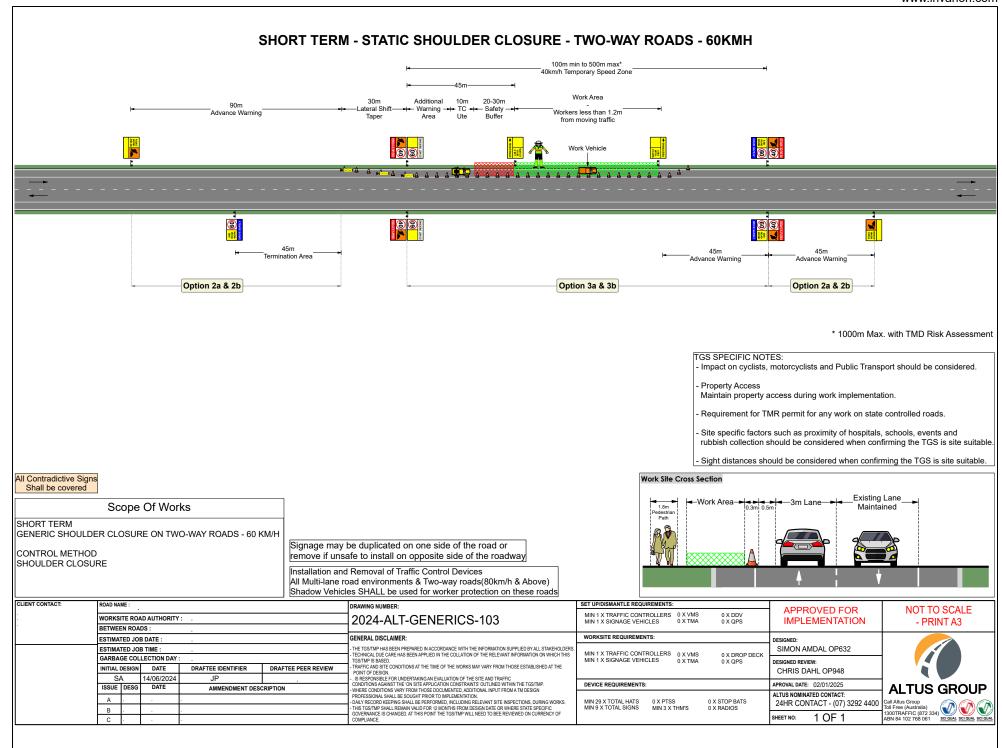
Yours faithfully

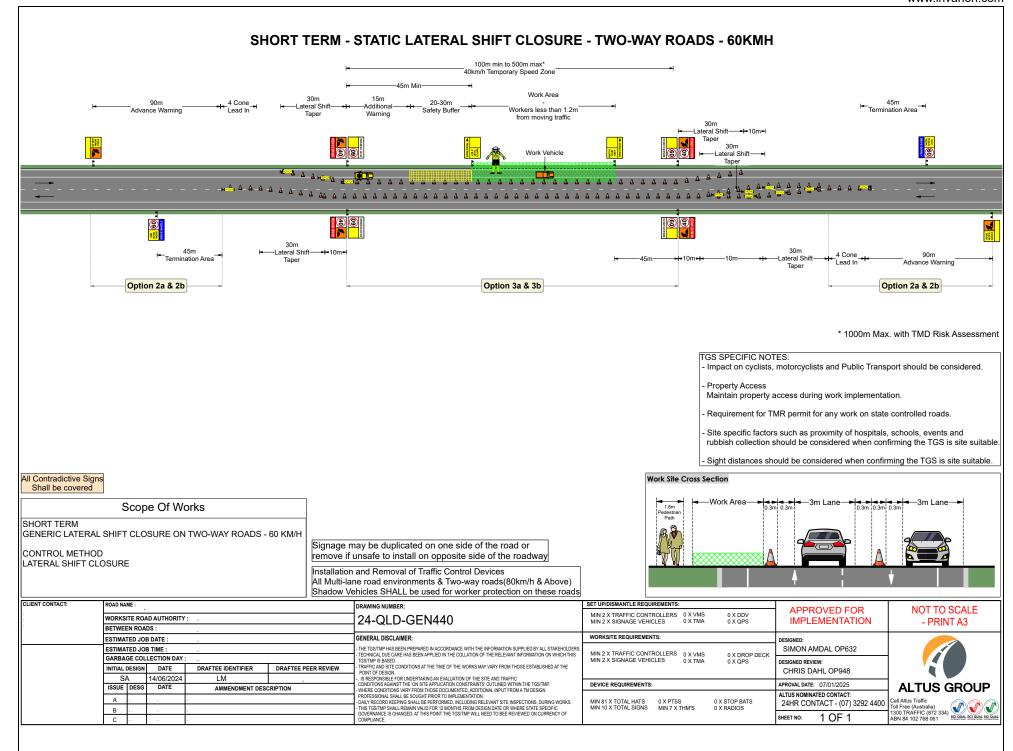
Matt Lennon

MANAGER INFRASTRUCTURE DESIGN AND ASSET MANAGEMENT INFRASTRUCTURE

Enc: Traffic Guidance Scheme (TGS) Generic Suite

SHORT TERM - STATIC LANE CLOSURE WITH STOP SLOW (> 300m): TWO-WAY ROAD - 60KM/H Option 2a & 2b Option 3 Option 4a & 4b Option 2a & 2b 30m >204m Additional 10m 20-30m 90m 90m Traffic Estimated Warning ++ TC ++ Safety + Advance Warning Primary PTS Workers less than 1.2m Control Queue Length Ute Buffer Taper from moving traffic 180m max 120m 180m max Secondary Repeater 45m Primary PTS H-Termination → Area Work Vehicle AAAA 45m 120m → Termination → 180m max 100m min to 500m max* 180m max Area 40km/h Temporary Speed Zone —Repeate Secondary 45m >204m 90m 90m Estimated Advance Warning Primary PTS Warning Queue Length * 1000m Max. with TMD Risk Assessment TGS SPECIFIC NOTES: - Impact on cyclists, motorcyclists and Public Transport should be considered. All Contradictive Signs Shall be covered Property Access ADDITIONAL PTS BASED ON QUEUE LENGTH REQUIRED: Maintain property access during work implementation. Additional PTS shall be implemented at 180m max spacing - Requirement for TMR permit for any work on state controlled roads. for the following estimated queue lengths. - Site specific factors such as proximity of hospitals, schools, events and 204m to 280m - additional 1 PTS rubbish collection should be considered when confirming the TGS is site suitable. 280m to 460m - additional 2 PTS - Sight distances should be considered when confirming the TGS is site suitable. 460m to 640m - additional 3 PTS **Work Site Cross Section** Work Area Scope Of Works SHORT TERM GENERIC LANE CLOSURE WITH STOP SLOW ON TWO-WAY ROADS - 60 KM/H Signage may be duplicated on one side of the road or remove if unsafe to install on opposite side of the roadway CONTROL METHOD Installation and Removal of Traffic Control Devices LANE CLOSURE WITH STOP SLOW All Multi-lane road environments & Two-way roads(80km/h & Above) Shadow Vehicles SHALL be used for worker protection on these roads CLIENT CONTACT: ROAD NAME: SET UP/DISMANTLE REQUIREMENTS: NOT TO SCALE APPROVED FOR MIN 2 X TRAFFIC CONTROLLERS 0 X VMS MIN 1 X SIGNAGE VEHICLES 0 X TMA WORKSITE ROAD AUTHORITY: 2024-ALT-GENERICS-207 MIN 1 X SIGNAGE VEHICLES **IMPLEMENTATION** - PRINT A3 BETWEEN ROADS: WORKSITE REQUIREMENTS: **ESTIMATED JOB DATE** THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDER TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS ESTIMATED JOB TIME : SIMON AMDAL OP632 MIN 2 X TRAFFIC CONTROLLERS 0 X VMS MIN 1 X SIGNAGE VEHICLES 0 X TMA 0 X DROP DECK GARBAGE COLLECTION DAY: TGS/TMP IS BASED 0 X QPS DESIGNED REVIEW TIGSTRIPE BASED. TRAFFIC AND STEE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF ESSION. IS RESPONDISTED FOR INDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON SITE APPLICATION CONSTRAINTS OUTLINED WITHIN THE TOSTMEN WHERE CONDITIONS WARY FROM THOSE DOCUMENTED. ADDITIONAL INPUT FROM A TWO ESSION. DATE DRAFTEE IDENTIFIER DRAFTEE PEER REVIEW INITIAL DESIGN CHRIS DAHL OP948 SA 4/06/2024 DEVICE REQUIREMENTS: APROVAL DATE: 03/01/2025 DATE ISSUE DESG AMMENDMENT DESCRIPTION **ALTUS GROUP** ALTUS NOMINATED CONTACT: PROFESSIONAL SHALL BE SOLIGHT PRIOR TO IMPLEMENTATION PROFESSIONAL SHALL BE SOUGHT HROW TO IMPLEMENTATION. DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. THIS TOSTINE SHALL REMAIN VALID FOR 12 MONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC GOVERNANCE IS CHANGED, AT THIS POINT THE TOSTIMP WILL NEED TO BEE REVIEWED ON CURRENCY OF Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061 Sci Qual. Sci Qu MIN 39 X TOTAL HATS 0 X PTSS MIN 2 X STOP BATS 24HR CONTACT - (07) 3292 4400 MIN 18 X TOTAL SIGNS 1 OF SHEET NO:

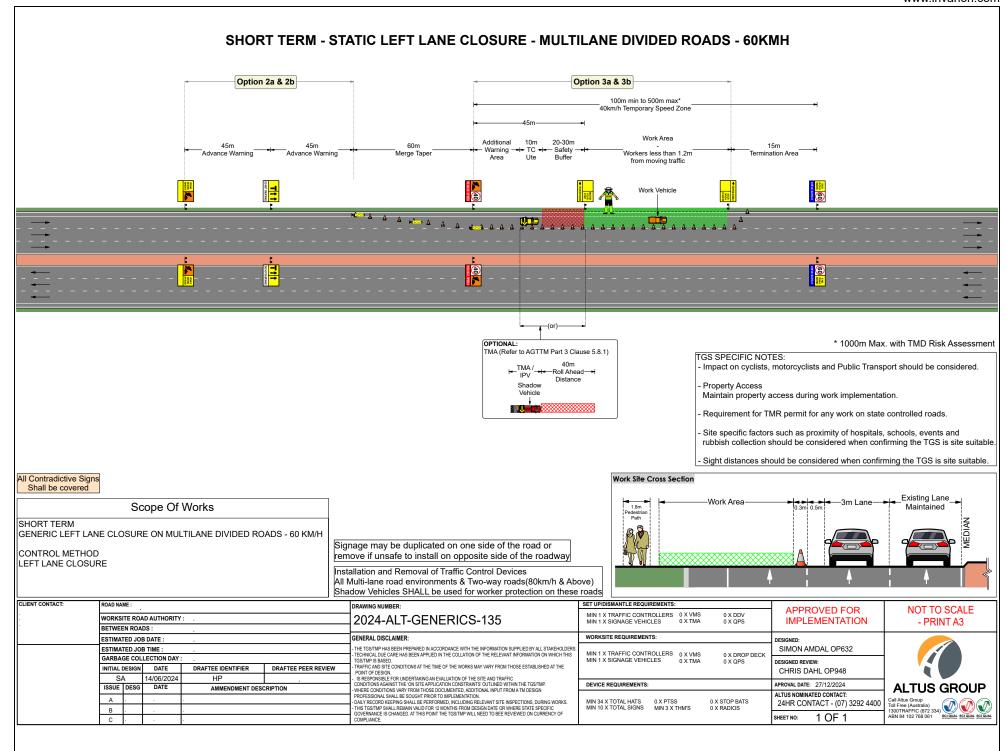




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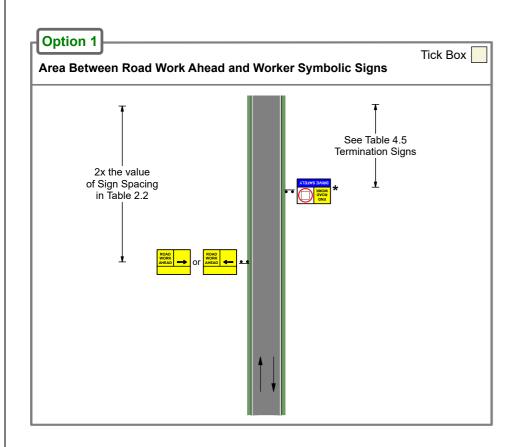
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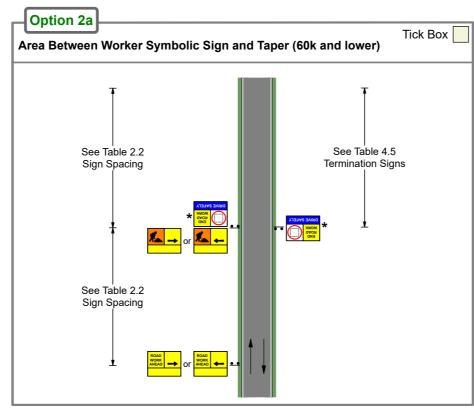
SHORT TERM - STATIC SHOULDER CLOSURE WITH HOLD AND RELEASE (241m to 300m): TWO-WAY ROAD - 60KM/H Option 2a & 2b Option 3 Option 4a & 4b Option 3 Option 2a & 2b 241m to 300n 30m Work Area 145m to 204m Additional 10m 20-30m 90m 90m Lateral Estimated Warning -- TC -- Safety -Shift Advance Warning Queue Length Area Ute Buffer Taper from moving traffic 45m 120m H—Termination—H Secondary PTS Area AAAA 45m 45m 120m → Termination → -Advance ---Secondary PTS Area Warning 145m to 204m 100m min to 500m max* 90m 90m Estimated 40km/h Temporary Speed Zone Primary PTS Advance Warning Queue Lenath -241m to 300m-* 1000m Max. with TMD Risk Assessment TGS SPECIFIC NOTES: - Impact on cyclists, motorcyclists and Public Transport should be considered. Property Access Maintain property access during work implementation. Requirement for TMR permit for any work on state controlled roads. - Site specific factors such as proximity of hospitals, schools, events and rubbish collection should be considered when confirming the TGS is site suitable. - Sight distances should be considered when confirming the TGS is site suitable. All Contradictive Signs **Work Site Cross Section** Shall be covered **Existing Lane** Scope Of Works SHORT TERM GENERIC SHOULDER CLOSURE WITH HOLD AND RELEASE ON TWO-WAY ROADS - 60 KM/H Signage may be duplicated on one side of the road or remove if unsafe to install on opposite side of the roadway CONTROL METHOD Installation and Removal of Traffic Control Devices SHOULDER CLOSURE WITH HOLD AND RELEASE All Multi-lane road environments & Two-way roads(80km/h & Above) Shadow Vehicles SHALL be used for worker protection on these roads CLIENT CONTACT: ROAD NAME : SET UP/DISMANTLE REQUIREMENTS: NOT TO SCALE APPROVED FOR MIN 2 X TRAFFIC CONTROLLERS 0 X VMS MIN 1 X SIGNAGE VEHICLES 0 X TMA WORKSITE ROAD AUTHORITY: 2024-ALT-GENERICS-223 **IMPLEMENTATION** MIN 1 X SIGNAGE VEHICLES - PRINT A3 BETWEEN ROADS: WORKSITE REQUIREMENTS: **ESTIMATED JOB DATE** THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDER TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS ESTIMATED JOB TIME : SIMON AMDAL OP632 MIN 2 X TRAFFIC CONTROLLERS 0 X VMS MIN 1 X SIGNAGE VEHICLES 0 X TMA 0 X DROP DECK GARBAGE COLLECTION DAY: TGS/TMP IS BASED 0 X QPS DESIGNED REVIEW TIGSTRIPE BASED. TRAFFIC AND STEE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF ESSION. IS RESPONDISTED FOR INDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON SITE APPLICATION CONSTRAINTS OUTLINED WITHIN THE TOSTMEN WHERE CONDITIONS WARY FROM THOSE DOCUMENTED. ADDITIONAL INPUT FROM A TWO ESSION. INITIAL DESIGN DATE DRAFTEE IDENTIFIER DRAFTEE PEER REVIEW CHRIS DAHL OP948 SA 4/06/2024 DEVICE REQUIREMENTS: APROVAL DATE: 03/01/2025 DATE ISSUE DESG AMMENDMENT DESCRIPTION **ALTUS GROUP** ALTUS NOMINATED CONTACT: PROFESSIONAL SHALL BE SOLIGHT PRIOR TO IMPLEMENTATION PROFESSIONAL SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. DAULY RECORD KEPPING SHALL BE REPORTED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. THIS TISSTIMP SHALL RELIAM VALID FOR 12 MONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC GOVERNANCE IS CHANGED. AT THIS POINT THE TISSTIMP WILL NEED TO BEE REVIEWED ON CURRENCY OF COMPLIANCE. Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061 Sci Qual. Sci Qu MIN 39 X TOTAL HATS 0 X PTSS MIN 2 X STOP BATS 24HR CONTACT - (07) 3292 4400 MIN 16 X TOTAL SIGNS

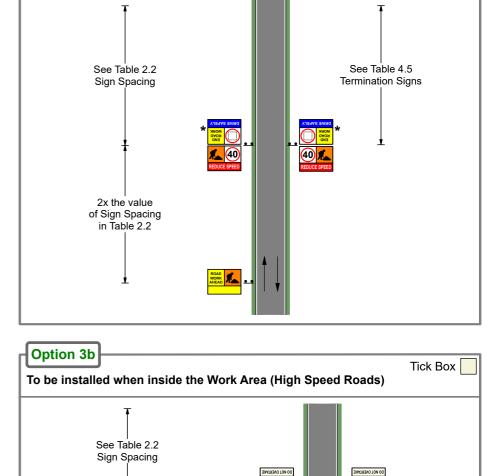


Tick Box

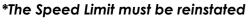
SHORT TERM - SIDE ROAD OPTIONS - ALL SPEED ZONES

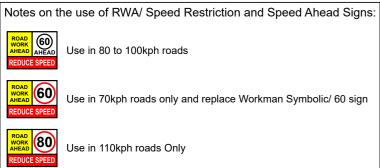






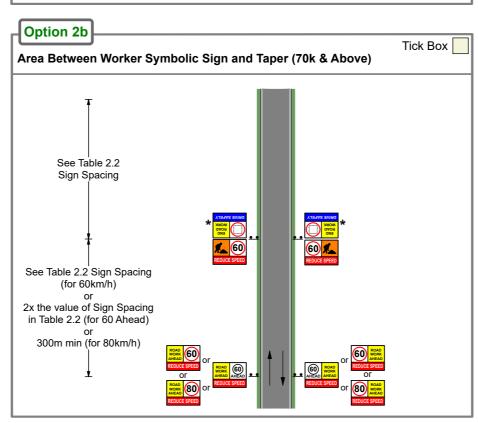
To be installed when inside the Work Area (Low Speed Roads)





Signage may be duplicated on one side of the road or remove if unsafe to install on opposite side of the roadway

Installation and Removal of Traffic Control Devices
All Multi-lane road environments & Two-way roads(80km/h & Above)
Shadow Vehicles SHALL be used for worker protection on these roads



| Option 3b To be installed when inside the | Tick Box Work Area (High Speed Roads) |
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| See Table 2.2 | |
| Sign Spacing | |
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| (for 60km/h) | REDUCE OF ELL |
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| SENERAL DISCLAIMER: | L |
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| THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS. TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS TGS/TMP IS BASED. | |
| | |

TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN.

POINT OF DESIGN. IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON SITE APPLICATION CONSTRAINTS' OUTLINED WITHIN THE TGS/TMP. WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM A TM DESIGN

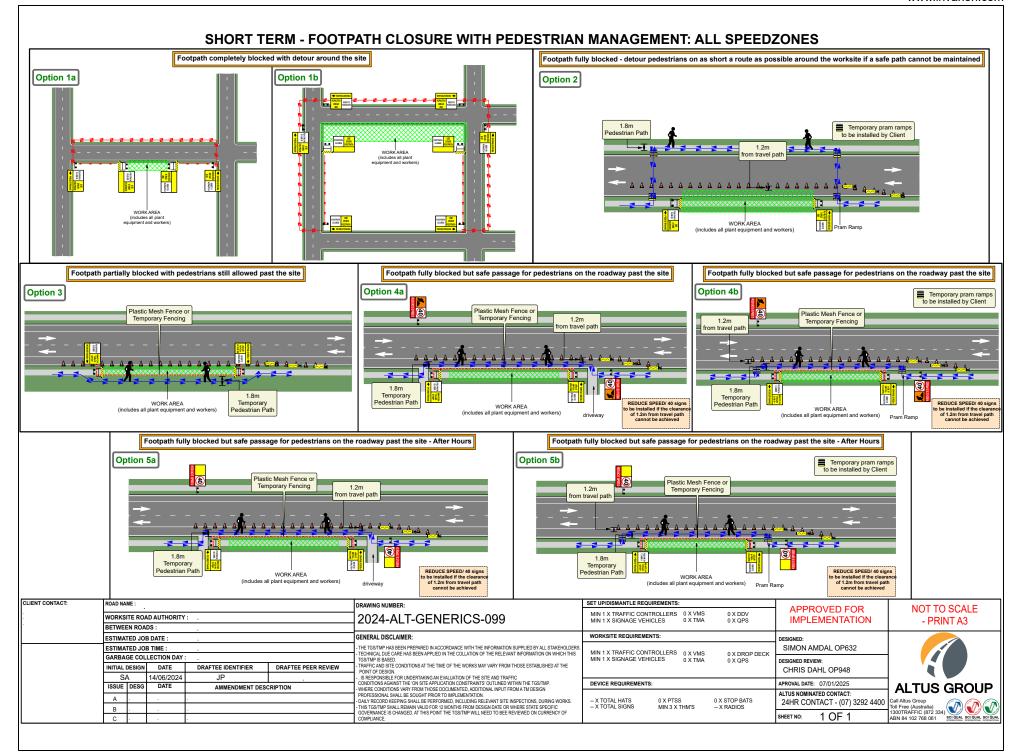
WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM A 1M DESIGN
PROFESSIONAL SHALL BE SOUGHT PRIOR TO IMPLEMENTATION.
DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS.
THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC
GOVERNANCE IS CHANGED. AT THIS POINT THE TGS/TMP WILL NEED TO BEE REVIEWED ON CURRENCY OF

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| WORKSITE REQUIREME | NTS: | DESIGNED: | | | | | |
| 0 X TRAFFIC CONTRO | LERS 0 X VMS | 0 X DROP DECK | SIMON AMDAL OP632 | | | | |
| 0 X SIGNAGE VEHICLE | | 0 X QPS | DESIGNED REVIEW: | | | | |
| | | | SIMON AMDAL OP632 | | | | |
| DEVICE REQUIREMENTS | S: | | APROVAL DATE: 28/06/2024 |] , | | | |
| 0 X TOTAL HATS 0 X PTSS 0 X TOTAL SIGNS 0 X THM'S | | 0 X STOP BATS 0 X RADIOS | ALTUS NOMINATED CONTACT: 24HR CONTACT - (07) 3292 4400 | Call Toll | | | |
| | | | SHEET NO: 1 OF 1 | 130 ABI | | | |

Option 3a



NOT TO SCALE



TGS - 2024-ALT-GENERICS-100 - STATIC CLOSURES GENERIC SUITE GENERAL NOTES - 1

This TGS must be fully implemented prior to works commencing.

TGS Installation

TTM measures shall be installed, maintained and removed in a planned and safe manner. Prior to commencing, the TMI shall check and review the approved TMP / TGS, the worksite and the proposed activity to ensure they are complementary and are appropriate. This section provides best principles and practices guidance.

The TMI shall check the road environment, especially the "on the day" traffic flows, to ensure that it is at an appropriate level for the TTM intended. A 5-minute count of traffic should provide an appropriate estimate of volumes to reference against values recorded in the TMP or the TGS

If the worksite and the approved TMP are not complementary, before occupying the worksite the TMI shall determine whether they can: make compliant adjustments (e.g. lengthen taper within tolerances) to the TGS

- contact the TMD to approve relevant modifications (e.g. additional signs or distances outside of tolerances) to the TGS
- contact the relevant Road Infrastructure Manager traffic control facility to initiate actions identified on the

TGS to be taken (e.g. change in the VMS, Variable Speed Limit Signs or Lane Usage Signage).

Where the TMP and TGS cannot be suitably adjusted or modified, the TMI should advise the Principal Contractor that they are not appropriate, and the works should be postponed.

All adjustments and authorised modifications are to be recorded on the TMP and TGS or on-site record.

Typical Installation Principles

Installation is typically carried out applying one of the processes in accordance with QGTTM Part 5 as "short term - low impact works" to protect the TTM staff. The examples in this section are based on limiting high risk manoeuvrers during installation including U-Turns and loops exposing workers to live traffic without protection.

Fundamental principles that should be complied with to ensure safety during this work activity are that:

- travel should only be in a forward direction on any road
- the TTM vehicle may be used as added protection considering the:
- availability of safe park up area(s) near the signage placement location

- · line of sight to approaching vehicles
- visibility of the worker and TTM vehicle to approaching vehicles
- location of signage/devices on vehicle which need to be accessed
- worker access to vehicle (e.g. not through crush zones)
- available space on road shoulder or median
- geometry/terrain of shoulder or median
- distance between vehicle and travel path / shoulder drop off
- TMI proximity to 'expected travel path while traversing between vehicle and signage location
- likely area in which the vehicle may move if impacted.
- availability of 'gaps in traffic' or lookout
- turn around procedures shall be conducted in a safe and legal manner
- TMI shall face the traffic when placing devices
- all workers shall know their escape route at all times.
- the vehicle mounted warning device shall be operating and the hazard/arrow board used as required all workers shall wear correct PPE
- a look out person/spotter shall be used for all activities where required in accordance with QGTTM Part 5
- full co-ordination of any ITS infrastructure which may assist the TGS installation
- the locations and types of devices are recorded in the diary
- the TGS is implemented as approved and a copy is available on site.

If it is considered too dangerous due to speed or volume to install the TGS using the protections defined in QGTTM Part 5, then consideration needs to be given to adopting a mobile convoy (refer QGTTM Part 4) or other controls e.g. manual traffic control to hold traffic during installation under its own TGS (refer QGTTM Part 3). A different installation sequence may need to be adopted to address any site-specific circumstances and can be approved by TMD or other authorised person.

WORK SITE LEGEND

AAA Retroreflective Cones 700mm

Traffic Controller Barrier Board



FATIGUE MANAGEMENT Active Traffic Controllers 2-4 Requires 1 Additional TC Requires 2 Additional TC's Requires 3 Additional TC'S TGS Installation

Installation Process

- The general procedure for setting up a site is to:

 1. locate the work area using GPS, landmarks, side streets, chainage
- 2. install devices as outlined in the TGS for side streets first
- 3. install devices as outlined in the TGS for the non-working lane (un-affected direction)
- 4. install devices as outlined in the TGS for the working lane (affected direction) to complete installation All sign spacings and taper lengths will be noted on the TGS and should be in accordance with QGTTM Part 3.

Placement of Signs and Devices

The scenarios in this Section are designed to encourage workers to review the safest installation process.

Many factors can influence the appropriate sequence for installation including but not limited to road geometry, hills, crests, curves, surface condition, lane widths, shoulder width, traffic volumes, peak traffic flows, road user travel speed, road user make up (e.g. % of heavy vehicles or cyclists), lighting and time of day, and weather.

Positioning of Signs and Devices

Signs and devices are to be positioned and erected so that:

- a they are properly displayed and securely mounted
- b. they are within the line of sight of the intended road user.
- c. they cannot be obscured from view (e.g. by vegetation or parked cars).
- d. they do not obscure other devices from the line of sight of the intended road user
- e. they do not become a possible hazard to workers, pedestrians, cyclists or vehicles f, they do not deflect traffic or vulnerable road users into an undesirable path
- g. they do not restrict sight distance for drivers entering from side roads, streets or private driveways
- h. they are not installed using supports that could be a hazard if struck by a vehicle.

It is important that pavement markings and raised pavement markers are considered in conjunction with the placement of other delineation devices, temporary barriers and channelising barricades, to ensure road users are safely directed through the site without conflicting messages. Delineating devices (e.g. Retroreflective Traffic cones 700mm, bollards, post mounted delineators) should be placed as per the location on the TGS as designed by the TMD, or if not noted should generally be placed as follows:

- a. Edge of traffic lane to line of traffic cones, bollards or longitudinal channelising devices:
- i. 0.5m offset for posted speed limit during roadworks up to and including 60 km/h
- ii. 1.0m offset for posted speed limit during roadworks over 60 km/h
- b. Edge of traffic lane to road work delineators or temporary hazard markers 1.0 m
- c. Edge of traffic lane to road safety barrier system:
- i. 0.3m for a posted speed limit during roadworks up to and including 40 km/h
- ii. 0.5m for a posted speed limit during roadworks 50 km/h to 60km/h
- iii 1 0m for a posted speed limit during roadworks 70 km/h to 80km/h
- iv. 2.0m for a posted speed limit during roadworks greater than 80 km/h
- Typical Locations for Signs

Short term - Signs mounted on portable supports used for short-term operation should generally be located as follows: (i) In open road areas

On the road shoulder a minimum of 1m clear of the travelled path if practical

(ii) In built-up areas

Behind the kerb if visible to oncoming traffic and not obstructing pedestrians or cyclists, otherwise on the pavement as near as practicable to the kerb without the sign becoming obscured and without obstructing moving traffic or cyclists.

All signs on portable supports shall be a minimum height of 200mm above the level of the nearest lane of traffic and shall be level. Tolerances

Adjustments to a TTM installation are the relocation of signs and devices within approved tolerances. Any changes that exceed tolerances are classed as a modification and shall be endorsed and authorised by a TMD. If signs and devices are required to be moved due to obstructions, and relocation exceeds tolerances, the TMI shall contact the TMD for instruction on alternate installation methods or options. Local constraints may not allow signs and devices to be placed exactly in accordance with the relevant TGS.

Judgement will therefore be necessary to place signs and devices as close as possible to the locations / spacings indicated. Should variations to the recommended spacing be required then it is generally preferable to increase the spacing within tolerances.

15

45

Tolerances in distances - (All values are in meters)

13

18

27

41

54

+25%

18

25

37

- a. Tolerances for placement of signs are:
- . up to 10% less than the distances given ii. up to 25% more than the distances given
- b. Tolerances for placement of delineation is:
- . no minimum and up to 10% more the distances given
- c. Tolerances for taper lengths are:
- . up to 10% less than the distances given
- ii. up to 25% more than the distances given

Any sign or device location adjustments are to be marked and initialed on the TGS held on site, with the name of the person making the adjustments clearly shown

Orientation of Signs and Devices

Signs are to face towards approaching traffic approximately at right angles to the line of sight from the driver to the sign.

| CLIENT CONTACT: | ROAD NAME: | | DRAWING NUMBER: | SET UP/DISMANTLE REQUIREMENTS | S: | APPROVED FOR | NOT TO SCALE |
|-----------------|--|---------------------|--|---|-----------------------|---|---|
| | WORKSITE ROAD AUTHORITY: . | | 2024-ALT-GENERICS-100-NOTES 1 | 0 X TRAFFIC CONTROLLERS 0 X SIGNAGE VEHICLES | 0 X VMS | IMPLEMENTATION | - PRINT A3 |
| · | BETWEEN ROADS : . | | | | | | 11(1117) |
| | ESTIMATED JOB DATE : . | | GENERAL DISCLAIMER: | WORKSITE REQUIREMENTS: | | DESIGNED: | |
| | ESTIMATED JOB TIME : | | - THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS TECHNICAL DUE CAREF HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS TGS/TMP IS BASED. | 0 X TRAFFIC CONTROLLERS | 0 X VMS 0 X DROP DECK | SIMON AMDAL OP632 | |
| | | | | 0 X SIGNAGE VEHICLES | 0 X TMA 0 X QPS | DESIGNED REVIEW: | |
| | INITIAL DESIGN DATE DRAFTEE IDENTIFIER | DRAFTEE PEER REVIEW | - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN. | | | CHRIS DAHL OP948 | |
| | SA 14/06/2024 JP | | IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON SITE APPLICATION CONSTRAINTS' OUTLINED WITHIN THE TGS/TMP. | DEVICE REQUIREMENTS: | | APPOVAL DATE: 07/04/0005 | |
| 1 | ISSUE DESG DATE AMMENDMENT DES | CRIPTION | - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM A TM DESIGN | DEVICE REQUIREMENTS: | | APROVAL DATE: 07/01/2025 | ALTUS GROUP |
| | A | | PROFESSIONAL SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DRIVE RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. - THIS TOSTIMP SHALL REMAIN VALID FOR 12 MONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC | 0 X TOTAL HATS 0 X PTS 0 X TOTAL SIGNS 0 X THI | | ALTUS NOMINATED CONTACT: 24HR CONTACT - (07) 3292 4400 | 7 |
| | B | | THIS TOST HIS PARTIL REMAIN WALLD FOR TA MONTHS PROM DESIGN DATE ON WHERE STATE SPECIFIC GOVERNANCE IS CHANGED, AT THIS POINT THE TGS/TMP WILL NEED TO BEE REVIEWED ON CURRENCY OF COMPLIANCE. | OX TOTAL CHOICE | WIO UN MADIOS | SHEET NO: 1 OF 3 | 1300TRAFFIC (872 334) ABN 84 102 768 061 SCI QUAL SCI QUAL SCI QUAL |

TGS - 2024-ALT-GENERICS-100 - STATIC CLOSURES GENERIC SUITE GENERAL NOTES - 2

Worksites are hazardous areas so use manual traffic control only where PTCDs are insufficient to provide the safety, capacity and efficiency required for effective traffic control. When traffic controllers are used, traffic controllers cannot direct a road user to contradict upcoming intersection signals. Traffic controllers are to coordinate activities with operating signals. If traffic controllers are operating within close proximity to a signalised intersection and the lights are flashing yellow or are off, a traffic controller shall only control one lane and the approach to this intersection shall be reduced to one lane of traffic. Where works cause delays to traffic flow or a side road intersects the worksite, do not use an automated PTCD, a traffic controller is required. The following requirements and recommendations apply when using traffic controllers:

- · Only competent persons with appropriate certification shall be appointed as a traffic controller (see QGTTM Part 7).
- Speed shall be 60 km/h maximum. Provide a temporary speed limit of 60 km/h or less on the approach to a traffic controller if the speed is higher (see Section 5.5.1).
- An escape route shall be identified for each traffic controller from their traffic control position.
- Traffic controllers shall be positioned a clear sight distance from approaching road users (see QGTTM Part 3 Section 2.5.4) with no obstruction and where they are not obstructing visibility to traffic control devices (i.e. signs). No obstruction should be located in the area between the traffic controller and the end of the line of four cones.
- Ensure that a work vehicle is not parked in a way that impacts the visibility of the traffic controller or, limits the traffic controller's escape route or, is parked between the traffic controller and the taper.
- Ensure that traffic controllers are visible at all times of the day, particularly at dawn, dusk, against low morning or evening sun, when in the shade on a sunny day or working in dusty conditions.
- · Ensure that traffic controllers are well illuminated at night. Where required, provide additional lighting.
- Relieve traffic controllers from traffic controller duties at least every 2 hours for at least 15 minutes.
- · If cone tapers are used, position the traffic controller 6 m in front of the taper on the left-hand shoulder or edge of the road and facing approaching traffic
- Place four traffic cones spaced 4 m apart, on the center-line 6 m in front of the traffic controller position.
- · If there is a queue, traffic controllers can move to the driver's side when safe to do so to remain visible to all road users.
- Under no circumstances are traffic controllers to stand or operate unprotected in a lane carrying traffic.
- Traffic controllers are to only communicate with a road user once the vehicle has stopped and is safe to do so.
- Ensure a single traffic controller never controls more than one lane of traffic or more than one approach.
- A single traffic controller can operate two PTSS at one time in special circumstances.
- · Provide a traffic controller at intersections to guide road users entering from a side road
- · Some intersections require three or more traffic controllers. Where multiple traffic controllers are used they are required to:
- ensure that road users are not seeing conflicting message from other traffic controllers at different locations of the worksite
- be in continuous radio contact with each other when they are not visible to each other.

For detailed guidance on traffic controllers see QGTTM Part 7.

Table 6.1 shows clearance between an excavation, or any ground level hazard associated with the excavation, and the nearest traffic lane, relative to speed and traffic volume. The delineation shown as one of three options. These are as follows

- . Option 1. Use traffic cones or bollards spaced as shown in Section 5.4.1.
- . Option 2. Use traffic cones or bollards spaced at 4 m maximum
- Option 3. Use a road safety barrier system (see Section 5.3.1).

Table 6.1. Delineation adjacent to excavations

| | | | Protection required | | | | | |
|--------------|--------------------------|-----------------------------|--------------------------|------------|----------|--|--|--|
| Speed (km/h) | Traffic volume (vpd)* | Clearance to excavation (m) | Depth of excavation (mm) | | | | | |
| | 33235 | | 50 to 250 | 251 to 500 | >500 | | | |
| s 66 | Any | <25 | Option 1 | Option 2 | Option 3 | | | |
| | | 25-5 | Option 1 | Option 1 | Option:2 | | | |
| | | > 5 | Option 1 | Option 1 | Option 1 | | | |
| | ≤ 1500 | ≤5 | Option 1 | Option 2 | Option 3 | | | |
| ≥70 | | ≥ 5 | Option 1 | Option 1 | Option 1 | | | |
| | > 1500 | ≤6 | Option 1 | Option 2 | Option 3 | | | |
| | | >6 | Option 1 | Option 1 | Option 1 | | | |

* For multilane roads use volume in one direction. For two-lane, two-way roads use the sum of both directions. Any variations to the recommendations in this table need to be supported by a risk assessmen

** For Onlines 1 and 2, copes or hollards are to be placed at the top of the excavation

| Table 2.2: | Sign spacing |
|------------|--------------|
| | |

≤55

| | 30-03 | 45 | | | | | |
|------------|--|---|--|--|--|--|--|
| | ≥ 66 | Equal to the speed (km/h) | | | | | |
| Table 2.3: | Prepare to Stop/Traffic Controller (symbol | ic) sign position from end of traffic queue | | | | | |
| | Speed (km/h)* | Minimum Distance (m) | | | | | |
| | ≤ 45 | 50 | | | | | |
| | 46 - 55 | 70 | | | | | |

Two times the speed of traffic (km/h) Choose speed as per Figure 2.6. For example, if signs are positioned in the green zone, use distance which corresponds to a speed of 110 km/h in Table 2.3. If signs are positioned in the yellow zone, use distance which

Table 4.4(a) - Maximum spacing for repeater PREPARE TO STOP signs

| Speed (km/h)* | Distance (m) |
|---------------|--------------|
| ≤55 | 60 |
| ≥56 | 180 |

* The 'Speed' value to be used for the maximum spacing for repeater PREPARE TO STOP signs is the actual posted speed (temporary or permanent) which applies (this will generally be 60 km/h but may be less) where the repeater spacing is required. If the speed limit changes within a repeater spacing, use the spacing for the lower speed limit

Note: The 200 m zone in Figure 2.2 does not apply

Table 4.4(b) - Minimum distance from ROADWORK AHEAD or variable message sign to primary PREPARE TO STOP sign

| Speed (km/h)^ | Distance (m) | | | | |
|---------------|-----------------------------|--|--|--|--|
| ≤55 | 30 | | | | |
| ≥56–65 | 90 | | | | |
| ≥66–75 | 140 | | | | |
| ≥76–85 | 240 | | | | |
| ≥86 | Four times the speed (km/h) | | | | |

^The 'Speed' value to be used for the minimum distance from the ROADWORK AHEAD or variable message sign to the primary PREPARE TO STOP sign is the actual permanent posted speed of the road prior to any reduction for the marlworks

Figure 2.2(a) - Sign or hazard within 200 m of a speed zone change

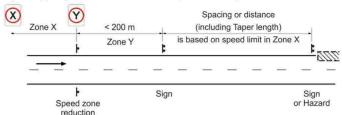
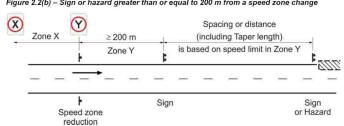


Figure 2.2(b) - Sign or hazard greater than or equal to 200 m from a speed zone change



| | corresponds to a speed do while, do while dide zone and so on. | | | 100001011 | | | | | | |
|-----------------|--|------------|--------------------|--|--|-----------------|----------------|-------------------|---|--|
| CLIENT CONTACT: | ROAD NAME : WORKSITE ROAD AUTHORITY : BETWEEN ROADS : | | | DRAWING NUMBER: | SET UP/DISMANTLE REQUIREMENTS: | | | APPROVED FOR | NOT TO SCALE | |
| | | | | | 0 X TRAFFIC CONTROLLERS | | IMPLEMENTATION | - PRINT A3 | | |
| - | | | | | | | | | | |
| | ESTIMATED JOB DATE : . | | | GENERAL DISCLAIMER: | WORKSITE REQU | JIREMENTS: | | DESIGNED: | | |
| | ESTIMATED JOB TIME : GARBAGE COLLECTION DAY : . | | | THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS. TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS | 0 X TRAFFIC CONTROLLERS | | 0 A DBOD DECK | SIMON AMDAL OP632 | | |
| | | | | TGS/TMP IS BASED. 0 | | | | DESIGNED REVIEW: | | |
| | INITIAL DESIGN | | DRAFTEE IDENTIFIER | DRAFTEE PEER RI | - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN. | | | | CHRIS DAHL OP948 | |
| | SA | 14/06/2024 | JP | | IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC | DEVICE REQUIRE | | | | |
| | ISSUE DESG | DATE | AMMENDMENT DES | CRIPTION | CONDITIONS AGAINST THE 'ON SITE APPLICATION CONSTRAINTS' OUTLINED WITHIN THE TGS/TMP. - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM A TM DESIGN | DEVICE REQUIRE | EMENIS: | | APROVAL DATE: 07/01/2025 | ALTUS GROUP |
| | Α . | | | | PROFESSIONAL SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. 0 | X TOTAL HATS | | 0 X STOP BATS | ALTUS NOMINATED CONTACT: 24HR CONTACT - (07) 3292 4400 | Call Altus Group |
| | В . | | | | - THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC O GOVERNANCE IS CHANGED. AT THIS POINT THE TGS/TMP WILL NEED TO BEE REVIEWED ON CURRENCY OF | 0 X TOTAL SIGNS | S 0 X THM'S | 0 X RADIOS | | 1300TRAFFIC (872 334) |
| | C · | | | | COMPLIANCE. | | | | SHEET NO: 2 OF 3 | ABN 84 102 768 061 SCI QUAL SC |

Distance (m

15

TGS - 2024-ALT-GENERICS-100 - STATIC CLOSURES GENERIC SUITE GENERAL ESTIMATED QUEUE LENGTHS - ADDITIONAL SIGNAGE

Queueing is expected for 'through' methods at stop locations where PTCDs or traffic controllers are positioned, sometimes resulting in collision. Collision can occur when the stationary queue extends past the PREPARE TO STOP sign location, most commonly when speed is greater than 70 km/h or the sight distance of approaching traffic to the end of the queue is:

- less than two times the speed limit in open road areas
- less than 1.5 times the speed limit in built-up areas.

To estimate queue length:

- Count the number of average and oversized vehicles that pass the PTCD/traffic controller position for five (5) minutes.
- Consider whether the majority of vehicles have been average or oversized (i.e. trucks). This will influence the 'multiplier' column used in Table 4.3.
- Multiply the number of vehicles counted by the number in the chosen 'multiplier' column
- (Ma for mostly average sized vehicles, or Mo for mostly oversized vehicles) using the maximum stop time required at the specific worksite.
- If you are unsure of the maximum required stop time or whether to use the 'average' or 'oversized' multiplier, seek assistance from a competent person or road authority.
 - Use the formula below to calculate the estimated queue length:
 - (number of average vehicles × Ma) + (number of oversized vehicles × Mo) = queue length

Example

| 2 Min Hold | (5 | X | 2.4) | + | (1 | Х | 8) | = | 20n |
|------------|----|---|------|---|----|---|-----|---|-----|
| 5 Min Hold | (5 | Χ | 6.0) | + | (1 | Х | 20) | = | 50n |

If more accurate data is available (e.g. traffic counts), this should be used instead of counting vehicles for five (5) minutes.

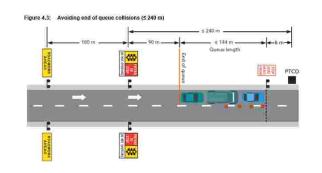
If further information or clarification is required consult a TMD

Table 4.3: Estimated queue length

| Name and the second second | Multiplier | | | | | |
|------------------------------------|--------------------------------------|---------------------------------------|--|--|--|--|
| Maximum stopping time (minutes) | Ma (multiplier for average vehicles) | Mo (multiplier for oversized vehicles | | | | |
| 2 | 24 | | | | | |
| 5 | 6 | 20 | | | | |
| 10 | 12 | 40 | | | | |
| 15 | 18 | 60 | | | | |
| 30* | 36 | 120 | | | | |

"A 36 minute stop time is unusual but has been included for some circumstances

Figure 4.3 illustrates an example of sign positioning for queues as per the steps above for Figure 4.4 illustrates an example of sign positioning for queues as per steps above for a a speed of 60 km/h where the PREPARE TO STOP sign is less than or equal to 240 m away from the PTCD/traffic controller. This diagram is not an example of how to install all traffic control devices and is not to be used as a TGS diagram.



speed of 60 km/h where the primary PREPARE TO STOP sign is more than 240 m, but ess than or equal to 300 m away from the PTCD/traffic controller. This diagram is not an example of how to install all traffic control devices and is not to be used as a TGS diagram.

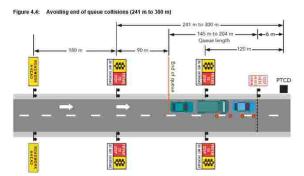
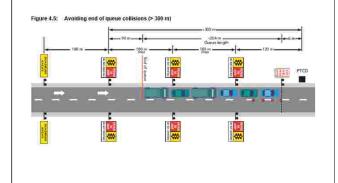


Figure 4.5 illustrates an example of sign positioning for queues as per steps above for a speed of 60 km/h where the primary PREPARE TO STOP sign is more 300 m away from the PTCD/traffic controller. This diagram is not an example of how to install all traffic control devices and is not to be used as a TGS diagram



Where these conditions are met and the additional or repeater PREPARE TO STOP signage is required, a Queued Traffic Ahead multi-message sign assembly may be used as the primary PREPARE TO STOP sign



Where this assembly is used, the preferred method of display is to locate the QUEUED TRAFFIC AHEAD text panel (TM1-46A) closest to traffic.

| CLIENT CONTACT: | ROAD NAME: WORKSITE ROAD AUTHORITY: BETWEEN ROADS: ESTIMATED JOB DATE: | | | | | DRAWING NUMBER: | SET UP/DISMANTLE REQUIREMENTS: | | | APPROVED FOR | NOT TO SCALE | |
|-----------------|---|--|---------------------|---|--------------|--|---|--------------------------|--|---|--------------|--|
| | | | | ': . | | 2024-ALT-GENERICS-100-NOTES 3 | 0 X TRAFFIC CONTROLLERS 0 X VMS 0 X SIGNAGE VEHICLES 0 X TMA | | | IMPLEMENTATION | - PRINT A3 | |
| | | | | | | | | | | | 11411710 | |
| | | | | | | GENERAL DISCLAIMER: | WORKSITE REQUIREMENTS: | | DESIGNED: | | | |
| | ESTIMATED JOB TIME : . | | | | | - THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS TGS/TMP IS BASED. | 0 X TRAFFIC CONTROLLERS | 0 X VMS | 0 X DROP DECK | SIMON AMDAL OP632 | | |
| | GARBAGE COLLECTION DAY: | | | | | | 0 X SIGNAGE VEHICLES 0 X TMA | | | DESIGNED REVIEW: | 7 7 7 | |
| ll . | INITIAL DESIGN DATE DRAFTEE IDENTIFIER DRAFTEE PEER REVIEW | | DRAFTEE PEER REVIEW | - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN | 1 | | CHRIS DAHL OP948 | | | | | |
| | | | 14/06/2024 | JP | | IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC | DELICE DECLIDENTS | | | | | |
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| | A | | - | | | PROFESSIONAL SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. - THIS TOSTINF SHALL REMAIN VALID FOR 12 WONTHS FROM DESIGN DATE OR WHERE STATE SPECIFIC | | | 0 X STOP BATS 0 X RADIOS | ALTUS NOMINATED CONTACT: 24HR CONTACT - (07) 3292 4400 | | |
| | C · · · | | | GOVERNANCE IS CHANGED. AT THIS POINT THE TGS/TMP WILL NEED TO BEE REVIEWED ON CURRENCY OF COMPLIANCE. | OXTONE GIGHT | | U A NADIOS | 0.OF 0 | 1300TRAFFIC (872 334) ABN 84 102 768 061 SCI QUAL SCI Q | | | |