

Greg Alderson & Associates

Chartered Professional Engineers and Scientists

ABN 58 594 160 789

REF: 17224 – TMP Road Widening Letter

YOUR REF: DA No. 10.2019.158.1 - AGRICULTURAL DA CONSENT CONDITIONS

14th Jan 2021

The General Manager
Byron Shire Council
PO Box 219
MULLUMBIMBY NSW 2482

BYRON SHIRE COUNCIL
Roads Act 1993
APPROVED PLAN
No. 51.2019.158.1
Date: 8.2.21

Re: Traffic Management Plan for Road Widening Works adjacent to 233 Gulgan Road, Brunswick Heads (Matthew O’Rielly – 219 The Saddle Road)

Greg Alderson Associates have been engaged to prepare this traffic management plan (TMP) and traffic control plan (TCP) addressing the proposed works at the new proposed access adjacent to 233 Gulgan Road, Brunswick Heads. The TMP documentation satisfies Consent Condition 19 of DA 10.2019.158.1 and S138 approval requirements.

The proposed works include:

- Shoulder widening and creation of a right-in turning lane opposite to the driveway access on Gulgan Road,
- Shoulder widening and creation of a left-in turning lane on the driveway access side of Gulgan Road,
- ancillary works associated with the above items.

The TCP will address the excavation and civil works within the road reserve, adjacent to the sealed pavement of Gulgan Road.

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Alderson Edwards Engineers and Scientists Pty Ltd trading as Greg Alderson and Associates

MEMBER OF THE CIVIL COLLEGE, NATIONAL REGISTERED CIVIL ENGINEER, RPEQ 4907



Figure 1 - Site location, *image source: SIX Maps Viewer*

Traffic Management Plan

The objectives of this Traffic Management Plan (“TMP”) (and TCP’s) are to:

- Ensure the safety of employees, contractors, the general public, pedestrians, cyclists and traffic,
- Keep traffic delays to a minimum,
- Maintain satisfactory property access,
- Minimise disruption to businesses,
- When required, obtain approvals and licenses such as Road Occupancy, Direction to Restrict (DTR for Speed Limit Sign Authorisation) and Traffic Signals, Roads Act (S138) approvals from Councils.
- Minimise disturbance to the environment,
- Meet the requirements of the RTA Traffic Control at Worksites Manual.

The site supervisor will be responsible for:

- Implementing the Traffic Management Plan and the Traffic Control Plan on site,
- Maintaining the TCP,
- Assessing and monitoring subcontractor’s capabilities and performance in respect of site activities,
- Ensuring the safe passage of traffic at all times,
- Ensuring everyone on site is inducted and wears the appropriate approved clothing and
- Driving through the site to inspect the traffic control layout, recording any deficiencies and the action taken to rectify them.

Site Access

During the construction process vehicles accessing the site are expected to include:

- General construction worker traffic (Cars and utility vehicles, etc.),
- Construction related vehicles (Grader, Roller, Truck & Dog, Float, Spray Sealing vehicles and equipment).

The subject site is within the road reserve, immediately adjacent to the sealed pavement of Gulgan Road. All construction related vehicles, including delivery vehicles are to park clear of the through traffic lane of Gulgan Road. Where possible construction related vehicles should park clear of the road inside the subject property.

Gulgan Road

Gulgan Road is a Classified Road (Regional Road) providing the major traffic route to Mullumbimby from the Pacific Motorway. The posted speed limit on approaches to the site is 80km/h. Gulgan Road typically consists of:

- 2 x 3.7m traffic lanes;
- 2m sealed shoulder fronting the subject property;
- 3.6m sealed shoulder opposite the property (where widening will occur).

Because of the nature of this road which includes high speeds and high traffic levels, the Traffic Control Plan requires an authorised roadworks speed limit to be implemented when works are within 6m of the nearest traffic lane. As stated in the TCP, if works are within 1.2m of the nearest traffic lane or if traffic controllers are required for other reasons (such as sealing works) then a standard traffic plan (TCP 83) can be implemented within the roadworks speed zone as required.

Pedestrians

Workers are to be aware of the needs of occasional pedestrians and are encouraged to minimise any potential risks. Furthermore, the nature of the roadside environment at the proposed location suggests that pedestrian numbers will be minimal, such that no pedestrian signage is required.

Traffic Control Plan

As mentioned, the proposed works would include the widening of Gulgan Road on both sides of the road and including associated ancillary works. To address the proposed works, the Traffic Control Plan **17224-TCP-01 Rev0** to **17224-TCP-01 Rev2** has been prepared in accordance with the *RTA Traffic Control at Work Sites Manual (version 5.0) and AS1742.3-2019*.

As works are generally restricted to outside the existing sealed shoulder of the road, the temporary impact of the traffic control plan arrangements are not expected to cause significant disruption to regular traffic on Gulgan Road, apart from implementation of a roadworks speed limit.


Any planned lane closures shall be arranged to be implemented outside of morning and afternoon peak traffic times to minimise disruption to traffic while traffic controllers are in place.

In addition, it is expected that the works would be undertaken in the shortest possible time with the least possible impact on the surrounding area.

We trust that this Traffic Management Plan will satisfy Council's requirements.

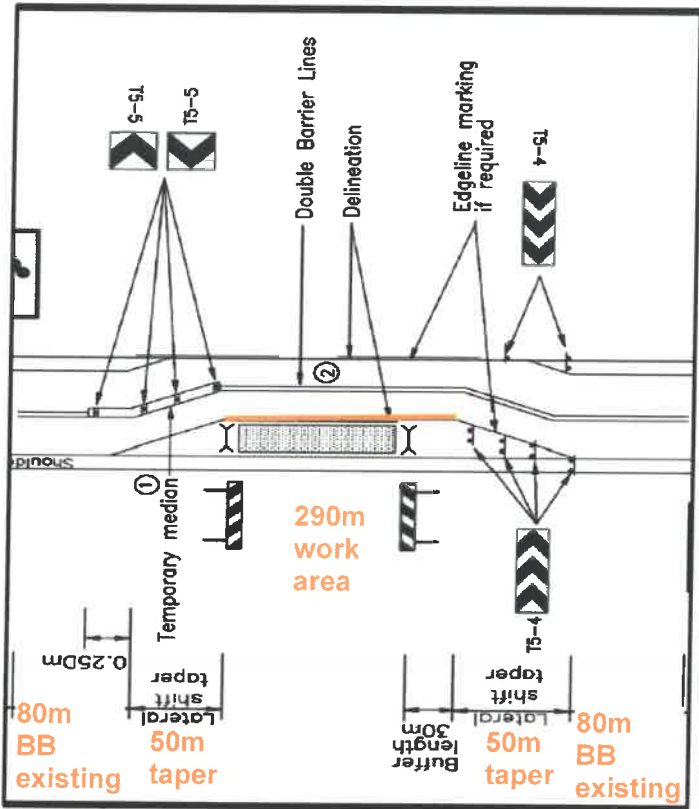
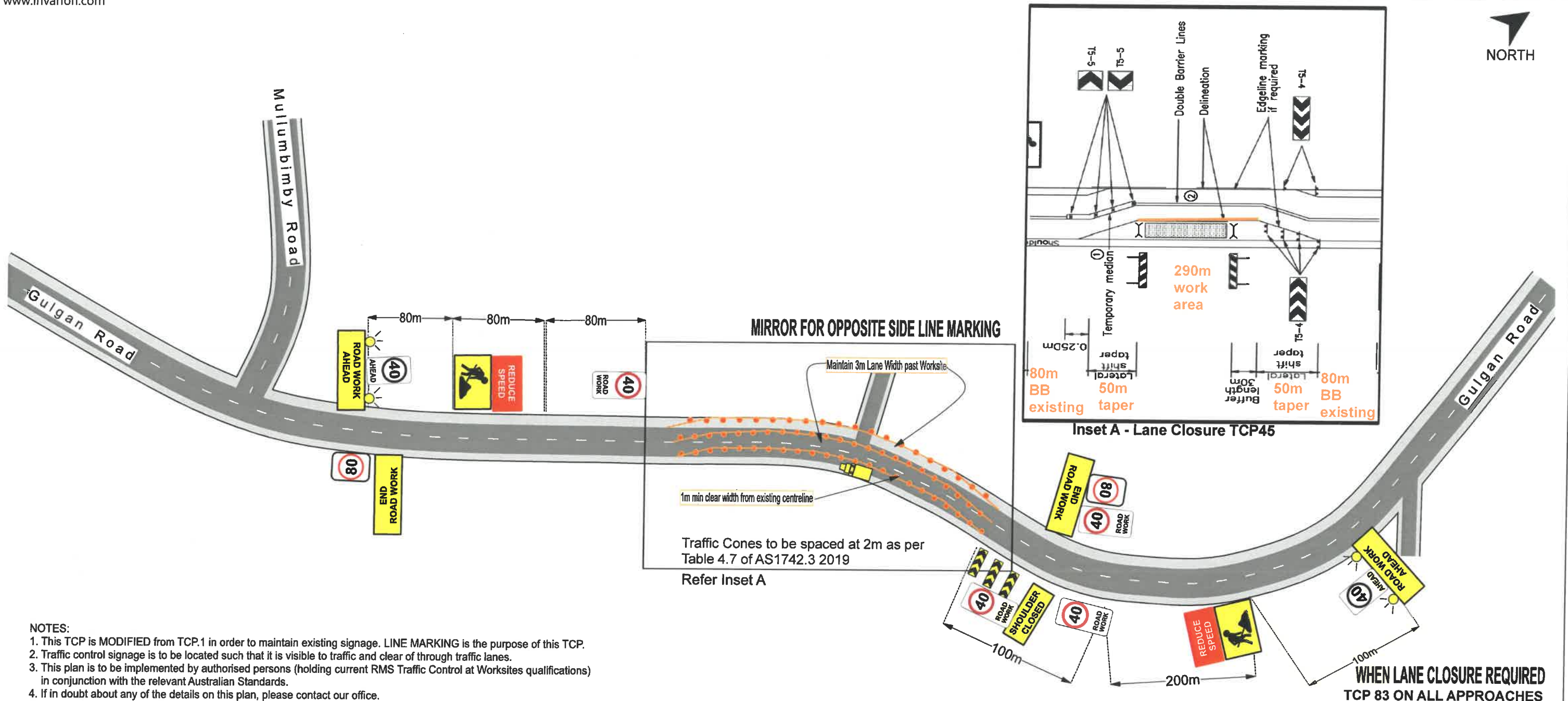
Please find the following attached Traffic Control Plan:

- **17224-TCP-01a Rev0**
- **17224-TCP-01b Rev0**
- **17224-TCP-02 Rev0**



Yours faithfully,
Greg Alderson and Associates.

Jimmy Costaganna
RMS Prepare a Work Zone Traffic Management Plan
Card No.: TCT1002265

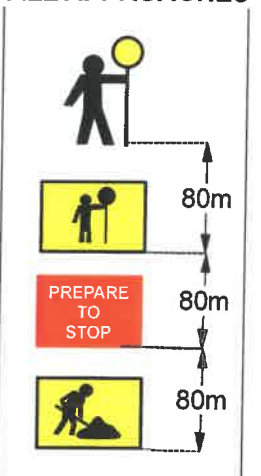


NOTES:

1. This TCP is MODIFIED from TCP.1 in order to maintain existing signage. LINE MARKING is the purpose of this TCP.
2. Traffic control signage is to be located such that it is visible to traffic and clear of through traffic lanes.
3. This plan is to be implemented by authorised persons (holding current RMS Traffic Control at Worksites qualifications) in conjunction with the relevant Australian Standards.
4. If in doubt about any of the details on this plan, please contact our office.
5. Appropriate construction fencing to be utilised at all times.
6. Construction related vehicles shall park legally on site clear of through traffic.
7. Witches hats are to re-positioned as required for line marking across the entire jobsite.
8. Signage distances / spacing has been chosen to suit site specific conditions and modified in accordance with Table 4.2 AS1742.3-2009 where required.
9. This TCP is for a long term site so until work is finished within 6m of carriageway, T1-1 (Roadwork Ahead) and End Roadwork signs shall remain night and day along with roadworks speed zone. LINE MARKING works & witches hats are to be removed at end of day.
10. Only when all works reinstated to Councils Satisfaction and loose sealing aggregate removed shall traffic signs and devices be taken down.
11. Workman, Prepare To Stop and Flagman signs to be covered or removed between shifts.
12. This TCP does not include formal provision for pedestrians, however ensure that space is available on the road shoulder behind the delineation for any occasional pedestrian to pass through safely

- THIS TRAFFIC CONTROL PLAN IS FOR WORKS FROM 1.2m TO 6m FROM THE TRAFFIC LANE NOT REQUIRING STOPPING OF TRAFFIC
- WORKS AND VEHICLE MOVEMENTS REQUIRING TEMPORARY LANE CLOSURE WILL REQUIRE IMPLEMENTATION OF TRAFFIC CONTROLLERS
- PLANNED LANE CLOSURES SHALL BE DONE OUTSIDE OF PEAK TRAFFIC TIMES

**WHEN LANE CLOSURE REQUIRED
TCP 83 ON ALL APPROACHES**



Rev	Revision Description	BY	DATE
0	ISSUE FOR CONSTRUCTION	JC	14/1/21

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Client: MATTRHEW O'REILLY

Site Details: (adjacent) 233 GULGAN ROAD, BRUNSWICK HEADS

Title: TCP ROAD WIDENING WORKS - LONG TERM (LINE MARKING)

Project: ACCESS UPGRADE

ISSUE FOR CONSTRUCTION			
Drawn: JC	Scale: N.T.S.	Issued: Jimmy Costaganna, BE (Civil)	Date: 14.1.21
Checked: AE	Original Size: A3	RMS Prepare a Work Zone TMP	Revision: 0
Job Number: 17224	Drawing Number: 17224_TCP_02	Card No.: TCT1002265	Expiry: Nil Expire date

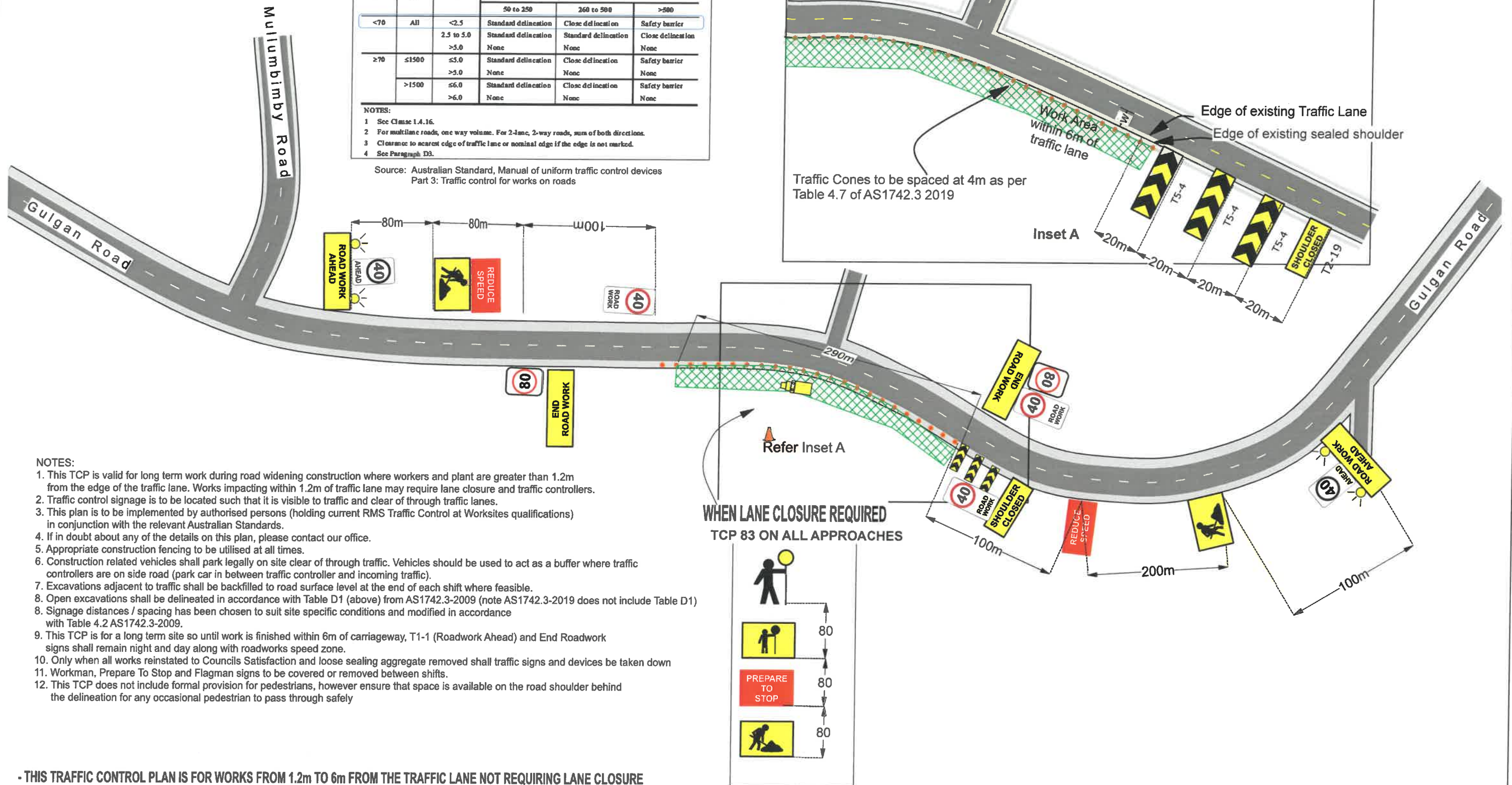


**TABLE D1
PROTECTION/DELINEATION ADJACENT TO EXCAVATIONS**

Speed of traffic (Note 1) km/h	Traffic volume (Note 2) vpd	Clearance to excavation (Note 3) m	Protection required (Note 4)		
			Depth of excavation, mm		
			50 to 250	260 to 500	>500
<70	All	<2.5	Standard delineation	Close delineation	Safety barrier
		2.5 to 5.0	Standard delineation	Standard delineation	Close delineation
		>5.0	None	None	None
≥70	≤1500	≤5.0	Standard delineation	Close delineation	Safety barrier
		>5.0	None	None	None
		>1500	Standard delineation	Close delineation	Safety barrier
		>6.0	None	None	None

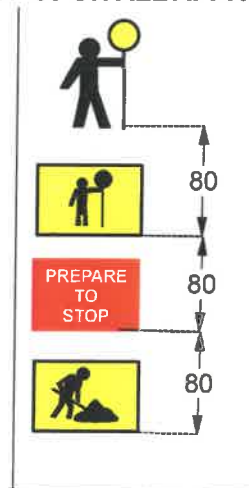
NOTES:
 1 See Clause 1.4.16.
 2 For multilane roads, one way volume. For 2-lane, 2-way roads, sum of both directions.
 3 Clearance to nearest edge of traffic lane or nominal edge if the edge is not marked.
 4 See Paragraph D3.

Source: Australian Standard, Manual of uniform traffic control devices Part 3: Traffic control for works on roads



- NOTES:**
- This TCP is valid for long term work during road widening construction where workers and plant are greater than 1.2m from the edge of the traffic lane. Works impacting within 1.2m of traffic lane may require lane closure and traffic controllers.
 - Traffic control signage is to be located such that it is visible to traffic and clear of through traffic lanes.
 - This plan is to be implemented by authorised persons (holding current RMS Traffic Control at Worksites qualifications) in conjunction with the relevant Australian Standards.
 - If in doubt about any of the details on this plan, please contact our office.
 - Appropriate construction fencing to be utilised at all times.
 - Construction related vehicles shall park legally on site clear of through traffic. Vehicles should be used to act as a buffer where traffic controllers are on side road (park car in between traffic controller and incoming traffic).
 - Excavations adjacent to traffic shall be backfilled to road surface level at the end of each shift where feasible.
 - Open excavations shall be delineated in accordance with Table D1 (above) from AS1742.3-2009 (note AS1742.3-2019 does not include Table D1)
 - Signage distances / spacing has been chosen to suit site specific conditions and modified in accordance with Table 4.2 AS1742.3-2009.
 - This TCP is for a long term site so until work is finished within 6m of carriageway, T1-1 (Roadwork Ahead) and End Roadwork signs shall remain night and day along with roadworks speed zone.
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**WHEN LANE CLOSURE REQUIRED
TCP 83 ON ALL APPROACHES**

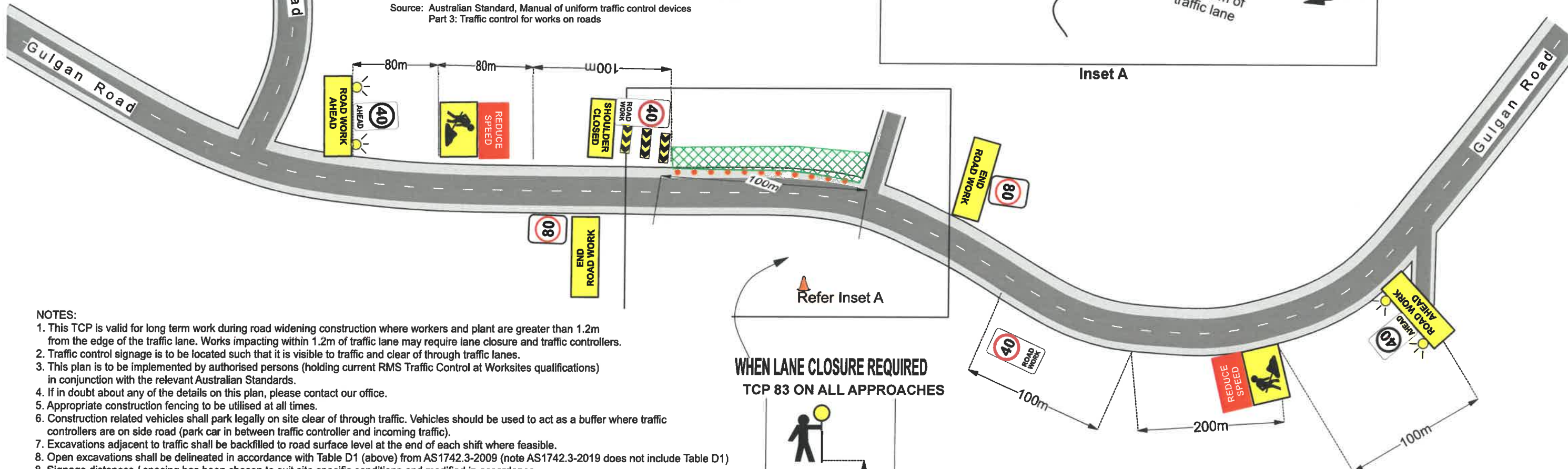
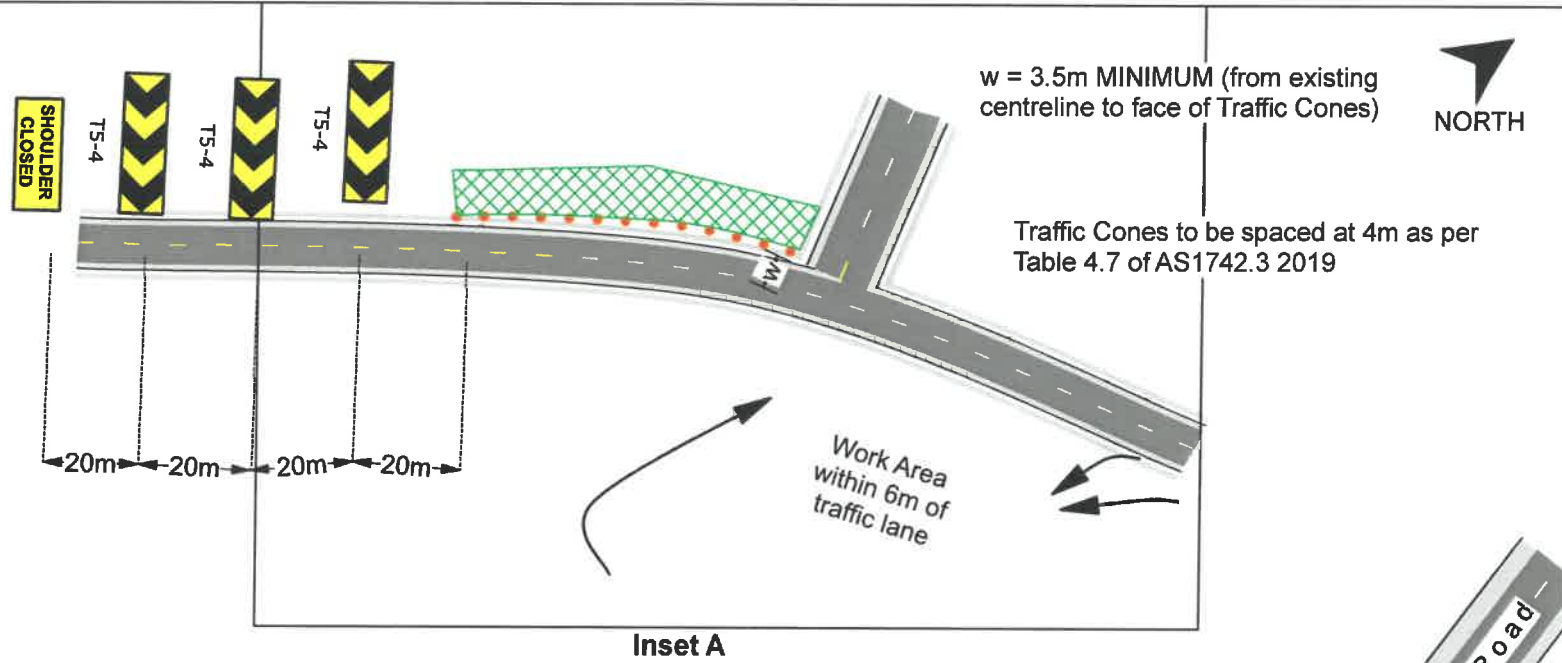


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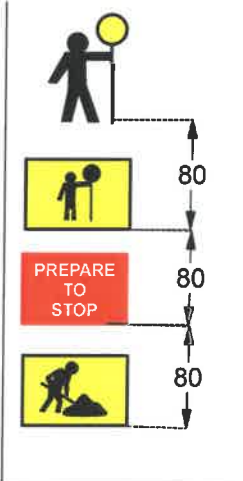
<table border="1"> <thead> <tr> <th>Rev</th> <th>Revision Description</th> <th>BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>ISSUE FOR CONSTRUCTION</td> <td>JC</td> <td>14/1/21</td> </tr> </tbody> </table>	Rev	Revision Description	BY	DATE	0	ISSUE FOR CONSTRUCTION	JC	14/1/21	<p>THIS DRAWING IS CONFIDENTIAL AND IS THE PROPERTY OF GREG ALDERSON AND ASSOCIATES. IT MUST NOT BE DISCLOSED TO A THIRD PARTY, REPRODUCED, COPIED, OR LENT WITHOUT THE WRITTEN CONSENT OF THE PROPRIETOR.</p> <p align="center">DO NOT SCALE DRAWINGS, USE DIMENSIONS</p>	<p align="center">GREG ALDERSON & ASSOCIATES ABN 58 594 160 789 43 Main Street CLUNES NSW 2480 Ph: 02 6629 1552 Email: office@aldersonassociates.com.au www.aldersonassociates.com.au</p>	<p>Client: MATTRHEW O'REILLY</p> <p>Site Details: (adjacent) 233 GULGAN ROAD, BRUNSWICK HEADS</p>	<p>Title: TCP ROAD WIDENING WORKS - LONG TERM</p> <p>Project: ACCESS UPGRADE</p>	<p align="center">ISSUE FOR CONSTRUCTION</p> <table border="1"> <tr> <td>Drawn: JC</td> <td>Scale: N.T.S.</td> <td>Issued: Jimmy Costaganna, BE (Civil)</td> <td>Date: 14.1.21</td> </tr> <tr> <td>Checked: AE</td> <td>Original Size: A3</td> <td>RMS Prepare a Work Zone TMP</td> <td>Revision: 0</td> </tr> <tr> <td>Job Number: 17224</td> <td>Drawing Number: 17224_TCP_01a</td> <td>Card No: TCT1002265</td> <td>Expiry: Nil Expire date</td> </tr> </table>	Drawn: JC	Scale: N.T.S.	Issued: Jimmy Costaganna, BE (Civil)	Date: 14.1.21	Checked: AE	Original Size: A3	RMS Prepare a Work Zone TMP	Revision: 0	Job Number: 17224	Drawing Number: 17224_TCP_01a	Card No: TCT1002265	Expiry: Nil Expire date
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