

Allroad Group Pty Ltd

Construction Traffic Management Plan (CTMP)

Western Earthmoving

Full Road Closure – Permanent

York St,
Emu Plains, NSW 2750

Allroad Group Pty Ltd
Unit 2, 55-57 Newton Rd
Wetherill Park, NSW 2164

Document & Version Control

Project Name: York St Closure
Client: Western Earthmoving
File Reference: ARG 22-30 TMP

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| Draft | 14/10/2022 | R. Gandhi | J. Sebaruth |
| V 1.0 | 24/10/2022 | R. Gandhi | J. Sebaruth |
| V 1.1 | 27/10/2022 | R. Gandhi | J. Sebaruth |
| | | | |

Allroad Groups consultants are qualified personal, with the relevant "Prepare a Work Zone Traffic Management Plan" accreditation.

This CTMP has been prepared for the Client and for the specific purpose of seeking approval for their works, as stated in the document.

Allroad Group does not accept any responsibility for any amendments of the content of this report by a third party.

This document has been prepared based on the Client's descriptions, their requirements and other information provided by the Client and other third parties.

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1. Introduction

This Construction Traffic Management Plan (CTMP) has been commissioned by Western Earthmoving for the drainage crossing at River Rd, Emu Plains.

The purpose of this report is to detail the Traffic Management during the construction works, which would minimize traffic impacts on the surrounding road network, ensure safety and efficiency for workers, pedestrians and road users, and provide information regarding the construction vehicle access routes and any changed road conditions (if applicable).

The CTMP and Traffic Guidance Schemes (TGSs) have been prepared in accordance with:

- Australian Standards 1742.1 2019
- Australian Standards 1742.2 2019
- Australian Standards 1742.3 2019
- WHS Act 2011 and Regulation 2017
- AS1319 – Safety signs for the occupational environment
- Austroads “Temporary Traffic Management Manual” 2019
- RMSs/ TfNSW “Traffic Control at Work Sites Technical Manual” V6.1

The Applicant is not allowed to commence constructions until the CTMP has been approved by Penrith City Council.

Allroad Group is responsible for the preparation of this CTMP and the Traffic Guidance Schemes (TGSs) only and not for its implementation, which is the responsibility of the Contractor. Allroad Group will take no responsibility for any amendments of the documents and plans by a 3rd party.

2. Key Stakeholders

The table below shows the Key Stakeholders of the project.

| Company | Contact Name | Position | Contact Details |
|----------------------|-----------------|----------------------------|--|
| Western Earthmoving | Junior Sebaruth | Engineer | jsebaruth@wem.com.au 0411 728 018 |
| Penrith City Council | Mudassar Fayyaz | Major Projects Coordinator | mudassar.fayyaz@penrith.city 0411 219 008 |

Table 1 - Key Stakeholders

3. Construction Site Location & Context

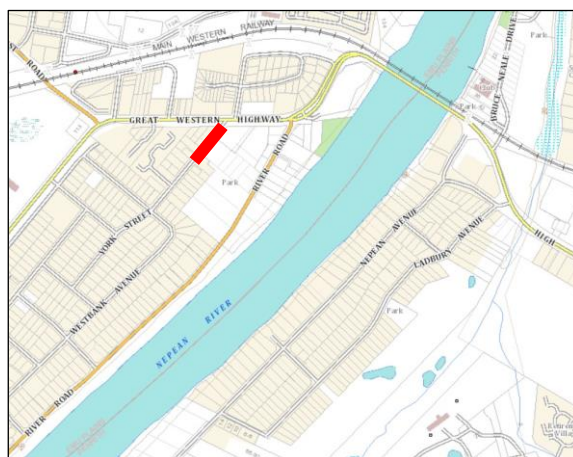


Figure 1 - Construction Site Location

3.1 Site Location

The construction site is located at River Rd, in the suburb of Emu Plains and under the jurisdiction of Penrith City Council. The site is bounded by the following roads:

North: Great Western Highway

South: Willow Tree Ave

4. Council Permits and Road Occupancy Licenses

4.1 Council Permits

The Applicant has to ensure that all required permits have been applied from Penrith City Council before commencing works.

4.2 Road Occupancy Licenses

All relevant ROLs must be obtained from the Transport Management Centre (TMC). Works on River Rd are not to be commenced until the Road Occupancy Licenses (ROLs) have been licensed by TMC.

All ROLAs must be submitted 10 business days in advance. All ROL Applications must include the Project Name "Great Western Hwy, Emu Plains" prior to submission. Any ROLAs that have been applied for or licensed without the Major Project Name should be re-applied for using Major Project Name "Great Western Hwy, Emu Plains".

The activation and deactivation of ROLs for work shifts will be via the web application and NOT by calling TMC.

5. Construction & Traffic Management

This Construction Traffic Management Plan (CTMP) has been commissioned by Western Earthmoving for the York St Closure as a part of River Rd Deviation Project.

5.1 Construction Stages: Dates & Work Hours

The project consists of 1 Stage. The start and end dates as well as the working hours are shown in the table below:

| Dates and Times | |
|--|--------------------------------------|
| Duration of Entire Project excluding unexpected events such as weather etc.: | Permanent closure |
| | |
| Stage 1 | |
| Beginning Stage 1: | 11/11/2022 |
| Finish Date Stage 1: | Till the opening of the new River Rd |
| | |
| | |

Table 2 - Project Overview

5.2 Description of Works, Duration & Traffic Management

The tables below provide an overview of the construction stage, its duration, the description of works as well as the traffic managements. All these detours will be in place until the commissioning of the new traffic signals at the intersection of the great Western Hwy and River Rd deviation.

| Construction Works | <ul style="list-style-type: none"> York St Closure |
|------------------------------|--|
| Traffic Management – York St | <ul style="list-style-type: none"> Road Closure and Detours Detours <ul style="list-style-type: none"> Traffic on Great Western Hwy (EB) Detour via following, with “No Right Turn” Sign at the intersection of York St and Great Western Hwy: <ul style="list-style-type: none"> GWH (EB) River Rd (SB) Francis Ave (WB) Westbank Ave (NB) Willow Tree Ave (WB) Traffic on Great Western Hwy (WB) Detour via following, with “No Left Turn” Sign at the intersection of York St and Great Western Hwy: <ul style="list-style-type: none"> GWH (WB) Napier Ave (EB) York St (NB) Traffic on York St (SB) Detour via following, with “LOCAL TRAFFIC ONLY” and “NO ACCESS TO GREAT WESTERN HWY” Signs at the intersection of York St and Willow Tree Ave: <ul style="list-style-type: none"> York St (SB) Willow Tree Ave (EB) Westbank Ave (SB) Francis Ave (EB) River Rd (NB) River Rd (SB) |

| | |
|--|--|
| <p>Traffic Management – Lamrock St</p> | <ul style="list-style-type: none"> ○ Traffic on Great Western Hwy (WB) Detour via following, with "No RIGHT Turn" Sign at the intersection of Lamrock St and Great Western Hwy: <ul style="list-style-type: none"> ▪ GWH (WB) ▪ Billington PI (NB) ▪ Station St (SB) ▪ GWH (EB) ▪ Stanton PI (WB) ▪ Avoca Av (WB) ▪ Lamrock St (SB) ○ Traffic on Great Western Hwy (EB) Detour via following, with "No LEFT Turn" Sign at the intersection of Lamrock St and Great Western Hwy: <ul style="list-style-type: none"> ▪ GWH (EB) ▪ Stanton PI (WB) ▪ Avoca Av (WB) ▪ Lamrock St (SB) |
|--|--|

Table 3 - Stage 1 Overview

The Traffic Guidance Schemes for this project are shown in **Appendix A**

5.3 Impact on nearby Construction Sites

There is one construction site in the proximity of the construction site.
York St closure will not affect any of the construction sites.

5.4 Resident Access to Properties

WEM will consult the residents of the York St prior to the road closure.

5.5 Traffic Controller Requirements

All Traffic Controllers (TCs) who attend the construction site must hold the following accreditation in order to perform their Traffic Control duties:

- Traffic Controller Ticket
- Implement Traffic Control Plans Ticket

All Traffic Controllers must also wear the appropriate PPE for the time of day & weather.

Before commencing work all Traffic Controllers are required to attend inductions for the project if mandatory and attend toolbox talks prior to each shift.

All Traffic Controllers need to have suitable TGSs and SWMS for the project on site, any modifications to the TGSs have to be signed off by a Traffic Control Team Leader who holds at least a "Implement Traffic Control Plan" ticket.

The traffic control devices such as signage and delineation must be in place before the Traffic Controllers commence work.

5.6 Waste Collection on York St

Special consideration has been given for the west collection vehicles when York St will be closed and exit onto Great Western Hwy will not be possible. WEM will provide a turning bay for the west collection vehicles to safely maneuver on York St.

The swept path analysis for a 9.7 m long garbage truck is shown in **Appendix B**

6. Public Transport Services

6.1 Railway Services

The *Integrated Public Transport Service Planning Guidelines, Sydney Metropolitan Area* (Transport for NSW – December 2013) states that rail services influence the travel choices of areas that are within 800m (10min walk) of a railway station.

The closest station to the construction site is Emu Plains and is approx. 0.6km north-west of the site. This suggests that the construction works have no impact on the commute by rail.

6.2 Bus Services

The *Integrated Public Transport Service Planning Guidelines, Sydney Metropolitan Area* (Transport for NSW – December 2013) states that bus services influence the travel choices of areas that are within 400m (5min walk) of a bus stop.

The closest bus stops to the construction site are “2750273 – GWH after River Rd” and will not be affected from the York St closure.

7. Impacts on the Community

7.1 Communication Strategy

A communication Strategy will be established by Western Earthmoving to inform residents in the area, schools and businesses of the proposed construction works. Resident access will be maintained at all times. The table below outlines the communication strategy to ensure that adequate communication with key stakeholders have been met.

| Risk | Strategy | Communication Channel |
|------------------------------|--|---|
| Wider Traffic Disruption | Wider Community and Stakeholders informed via Resident Notification Letters. Project Manager Contact/ Email will be made available for residents and council to answer any questions. | Resident Notification Letters Emails VMS Boards |
| Construction Related Traffic | Ensure that Heavy Construction Vehicles use routes as identified in the CTMP and Ensure that residents in the area are notified in advance to any traffic changes that may affect them | |

Table 4 - Communication Strategy

7.2 Pedestrian Management

During Stage 1a, the shared path on the southern side of GWH will be closed off and the bus stop TSN 2750273 will be temporarily closed. All the users will be informed and encouraged to use TSN 2750274 during the project. Pedestrians & cyclists have to cross the road at the signalised intersections at GWH/ River Rd.

7.3 Emergency Services

Emergency vehicle can ingress and egress York St using detours provided.



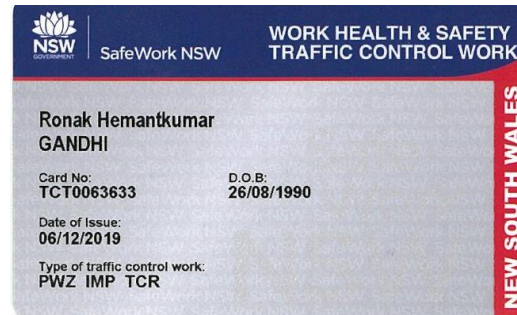
Ronak Gandhi

Planner

B.E. Civil





ME/MEM Civil

PWZTMP No: TCT0063633







Appendix A – Traffic Guidance Schemes



| | | | | | | | | | | | |
|---|---|---|--|--|----------------------------|----------------------------|---|--|--|--|--|
| <div>Allroad Group Pty Ltd</div> | Designed by: | Qualification No: | Legend: ↪ Barrier End-Treatmend — Cones ■ Internal Work Area — SafeZone LDS Barriers ■ Site Entrance ■ VMS Board ■ Work Area | Compliance Notes: 1. All TGSs in accordance with TM - TCWS V6.0 & Austroads Guide to Temporary Traffic Management 2019 2. Recommended Taper Lengths TM - TCWS V6.0, Table 7-3 3. Sign Spacing Austroads TTM, Part 3: Table 2.2 4. Recommended Sight Distances to Devices Austroads TTM, Part 3: Table 2.3 5. Traffic Controller min. Sight Distance TM - TCWS V6.0, Table 5-13 6. Estimated Queue Length & Sign Spacing Austroads TTM, Part 3: Table 4.3 & 4.4 7. Cone and Bollard spacing TM - TCWS V6.0, Table 6-2 | REVISION | REV | Description | Type of TTM: Static Works 24 Hours Closure | Duration: 2 Months | Client:  | |
| | Role: | 00 | | | | sent to client | TTM Set-up: Lane Closure incl. Half Road Closure | Project Description: Road Widening Works Stage 1a - Option 2 | | | |
| | Signature:  |  | | | | 01 | | Shift TTM Inspections: after installation -> every 2h | Work Location: Great Western Hwy, Emu Plains, NSW 2750 | | |
| | Implementer Name: | Implementer Qualification No: | | | | Review Date: 02/06/2022 | | Speed Limit: 60km/h & 50 km/h | Drawing No: | | |
| | | TCT..... | | | | ROL No: to be provided | | Traffic Volume: 200 vph | Est. Queue Length: N/A | Issue Date: | |
| | | | Sign Type: Size B | | Map Reference: SIX Maps | Scale: 1:500 | ARG 21-1729 TGS | | 02/05/2022 | | |

Appendix B – Swept Path Analysis



| | | | | | | | | | | | |
|---|-------------------|---|--|--|-----------------|----------------------------|----------------|--|------------------------|--|--|
|  Allroad Group Pty Ltd | Designed by: | Qualification No: | Legend: ⌒ Barrier End-Treatmend — Cones ■ Internal Work Area — SafeZone LDS Barriers ■ Site Entrance ■ VMS Board ■ Work Area | Compliance Notes: 1. All TGSs in accordance with TM - TCWS V6.0 & Austroads Guide to Temporary Traffic Management 2019 2. Recommended Taper Lengths TM - TCWS V6.0, Table 7-3 3. Sign Spacing Austroads TTM, Part 3: Table 2.2 4. Recommended Sight Distances to Devices Austroads TTM, Part 3: Table 2.3 5. Traffic Controller min. Sight Distance TM - TCWS V6.0, Table 5-13 6. Estimated Queue Length & Sign Spacing Austroads TTM, Part 3: Table 4.3 & 4.4 7. Cone and Bollard spacing TM - TCWS V6.0, Table 6-2 | REVISION | REV | Description | Type of TTM: Static Works 24 Hours Closure | Duration: Permanent | Client:  | |
| | Role: | | | | | 00 | sent to client | TTM Set-up: Swept Path Analysis | | Project Description: York St - Closure | |
| | Signature: |   | | | | 01 | | Shift TTM Inspections: after installation -> every 2h | | | |
| | Implementer Name: | Implementer Qualification No: | | | | Review Date: 14/11/2022 | | Speed Limit: 60km/h & 50 km/h | | Work Location: Great Western Hwy, Emu Plains, NSW 2750 | |
| | | TCT..... | | | | ROL No: to be provided | | Traffic Volume: 200 vph Est. Queue Length: N/A | | Drawing No: ARG 21-1673 TGS Issue Date: 14/10/2022 | |
| | | | | | | Sign Type: Size B | | Map Reference: SIX Maps Scale: 1:500 | | | |