8.5 Construction Traffic Management Plan

Jacob Dickson

From: Kerren Ven <KVen@fairfieldcity.nsw.gov.au>
Sent: Tuesday, 14 June 2022 10:34 AM
To: Jacob Dickson
Subject: FW: SSD-10436 MOD 4 Construction Traffic Management Plan
Attachments: CO12990.11-SK220602-01-LOT 204 SWEPT PATH Rev.B.PDF

[EXTERNAL EMAIL**]**

Hi Jacob,

Please see below comments regarding Lot 24 CTMP.

Thank you.

Kind regards,

Kerren Ven
Strategic Planner | Strategic Land Use Planning
City Strategic Planning
PO Box 21, Fairfield NSW 1860
P 9725 0222 |

www.fairfieldcity.nsw.gov.au
mail@fairfieldcity.nsw.gov.au

We acknowledge the Cabrogal of the Darug nation who are the Traditional Custodians of this Land.
We also pay our respect to the Elders both past, present and emerging of the Darug Nation.

From: Simon Cai <SCai@fairfieldcity.nsw.gov.au>
Sent: Tuesday, 14 June 2022 10:21 AM
To: Kerren Ven <KVen@fairfieldcity.nsw.gov.au>
Cc: Sandra Slewa <sslewa@fairfieldcity.nsw.gov.au>
Subject: RE: SSD-10436 MOD 4 Construction Traffic Management Plan

Hi Kerren

Thank you for your email. I have no objections to the attached construction traffic management plan for Lot 204 Johnston Crescent, Horsley Park subject to the following conditions being complied with:

- All conditions set by Transport for NSW (TfNSW) are to be complied with, if any;
- All requirements set by the relevant departments of Council are to be complied with;

- The applicant shall apply to the Council's City Assets Branch for approvals including temporary driveways, cranes, hoarding and barricades. Physical barriers to be installed on footpath/nature strip need to be determined by Council's City Assets Branch to commencement of the works;
- All vehicles must enter and exit the site in a forward direction. Any reversing movements at/near the site must be managed by the TfNSW Accredited Traffic Controller(s);
- TfNSW Accredited Traffic Controllers shall be present at the entry/exit driveways as required to manage potential conflicts between road users;
- The applicant requires to obtain permits from National Heavy Vehicle Regulator in order for the B-Double vehicles to travel on the non-approved B-Double vehicle routes. Requests to use these vehicles on public road/Johnston Crescent must be submitted to the National Heavy Vehicle Regulator (NHVR) at least 28 days prior to the vehicle's scheduled travel date;
- A dilapidation report associated with the construction works should be submitted to Council's City Assets Branch for review and approval;
- Implementation of any temporary traffic control measures on a public road/road related area requires the applicant to obtain a road occupancy licence (ROL) from Council's City Assets Branch which can be contacted on 9725 0222. The installation of barricades and traffic/warning signs on a public road shall be in accordance with Australian Standards (AS 1742.3): Traffic Control for works on road and TfNSW Traffic Control at Work Sites Manual;
- Truck movements shall be spread out throughout the day to minimise vehicles queuing on the adjoining road network and to improve traffic and road safety. Deliveries shall be planned to ensure a consistent and minimum number of trucks arriving the site at any one time;
- If the permitted heavy vehicle damages Council assets or infrastructure, the applicant must immediately notify Council's Traffic & Transport and Council's City Assets Branch;
- All parking and loading/unloading activities associated with construction must be accommodated on-site;
- Safe access to adjoining properties shall be maintained at all times. Adequate pedestrian access at/near the site to be maintained at all times; and
- Council shall be notified of any future disruptions to roadways and footpaths as a result of the construction works.

Should you have any further enquiries regarding this matter, please let me know.

Regards

Simon Cai
Professional Engineer | Traffic and Transport
City Projects
PO Box 21, Fairfield NSW 1860
P (02) 9725 0240 | F (02) 9609 3257

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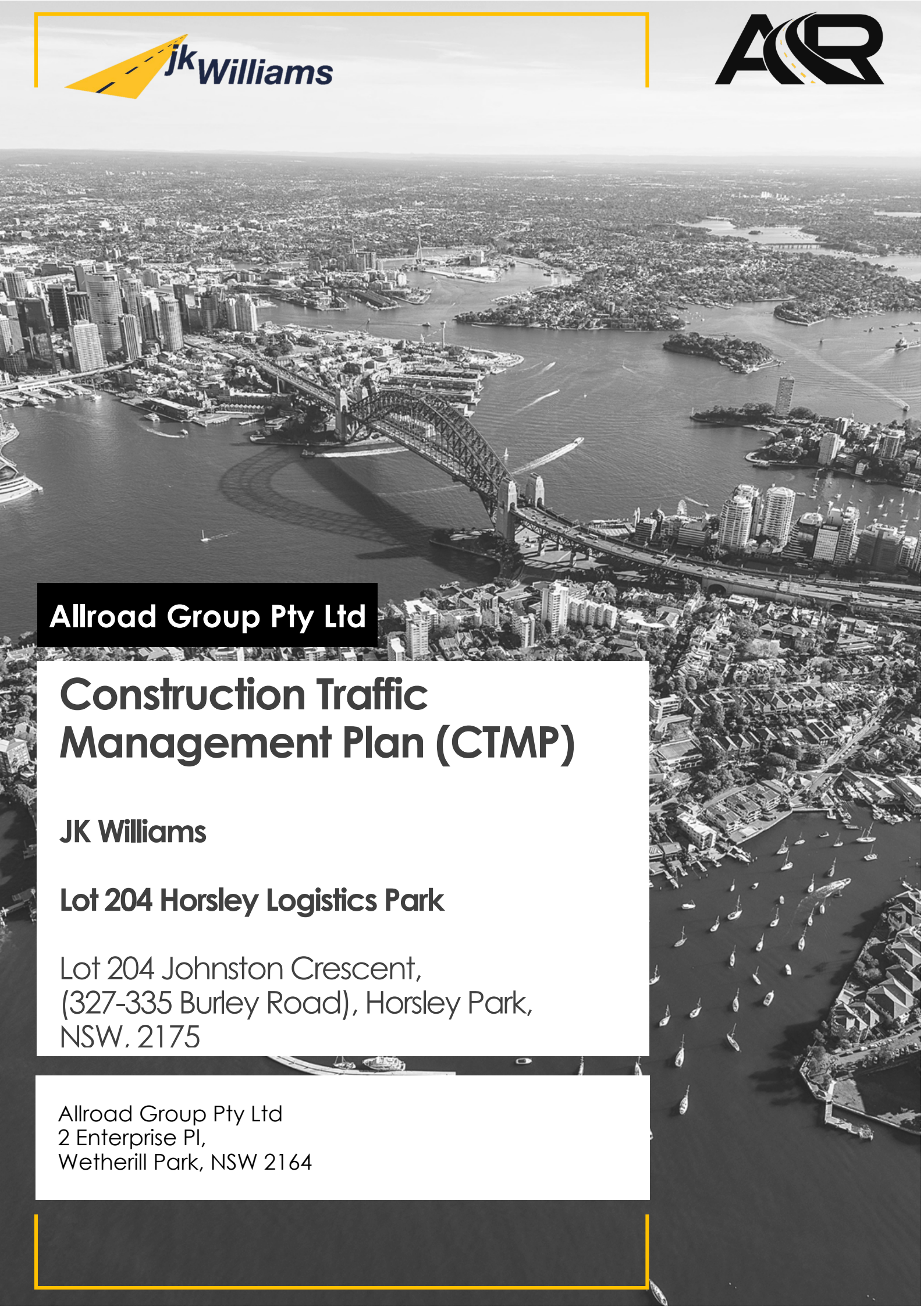


Allroad Group Pty Ltd

Construction Traffic Management Plan (CTMP)

JK Williams

Lot 204 Horsley Logistics Park

Lot 204 Johnston Crescent,
(327-335 Burley Road), Horsley Park,
NSW. 2175

Allroad Group Pty Ltd
2 Enterprise Pl,
Wetherill Park, NSW 2164

Document & Version Control

Project Name:	Lot 204 Horsley Logistics Park
Client:	JK Williams
File Reference:	ARG 22-015 CTMP

Version	Date	Author	Approved by
Draft	02/05/2022	D. Allan	N.Fameli
V 1.0	06/06/2022	D. Allan	N. Fameli

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.

Table of Content

Figures

Tables

1. Introduction

This Construction Traffic Management Plan (CTMP) has been commissioned by JK Williams for the construction works at Lot 204 Johnston Crescent (327-335 Burley Road) Horsley Park.

The purpose of this report is to detail the Traffic Management during the construction works, which would minimise 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 1742.3 2009
- RMSs "Traffic Control at Work Sites Technical Manual" V5.0 & V6.1
- Austroads "Temporary Traffic Management Manual" 2019

The Applicant is not allowed to commence constructions until the CTMP has been approved by Fairfield Ciry 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
JK Williams Contracting	Nick Fameli	Project Manager	nfameli@jkw.com.au 0409 917 456
ESR Australia	Jacob Dickson	Project Manager	Jacob.dickson@esr.com 0403 737 834

Table 1 - Key Stakeholders

3. Construction Site Location & Context

Figure 1- Construction Site Location

3.1 Site Location

The construction site is located at Lot 204 Johnston Crescent in the suburb of Horsley Park and under the jurisdiction of the Fairfield City Council. The site is bounded by the following roads:

South:	Old Wallgrove Road
East:	Burley Road

3.2 Road Hierarchy

The road hierarchy within the area of the construction site is presented in *Figure 2* and described below:

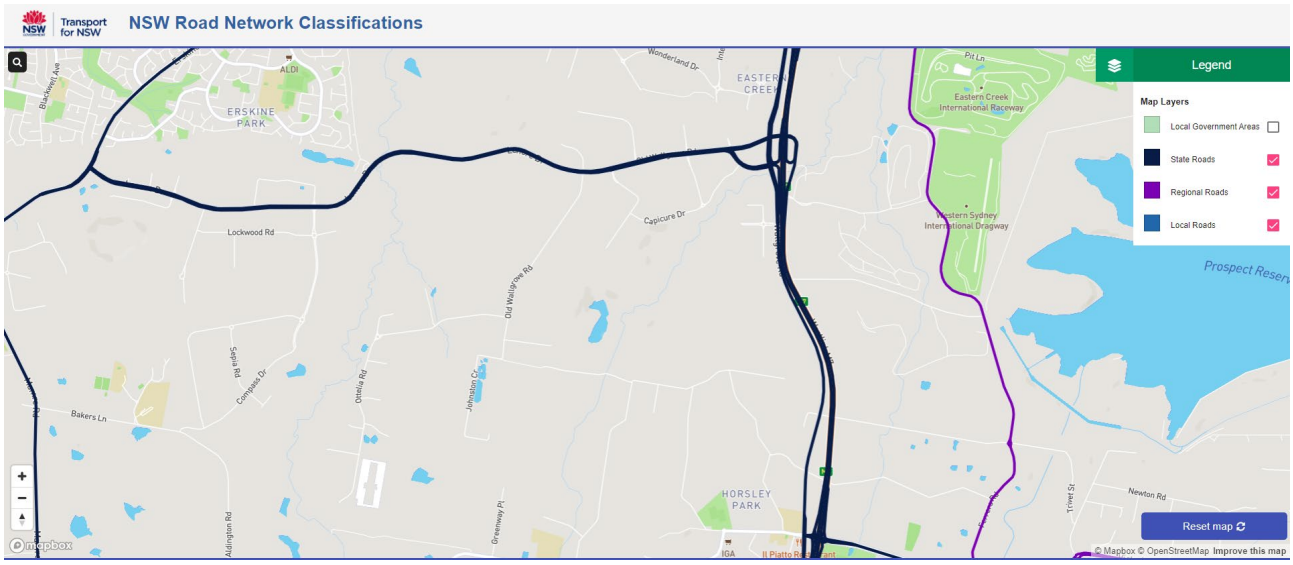


Figure 2 - Road Hierarchy

3.2.1 State Roads

Old Wallgrove Rd (MR 693) is a 6-lane, 2-way divided road in Horsley Park. It runs in an East-West direction in the vicinity of the site. The road provides a link between Lenore Dr to the West and to Wallgrove Rd to the East.
Speed Limit: 80km/h
Distance to Site: 3km approx.

3.2.2 Council Roads

Johnston Crescent is a 2-lane, 2-way road in Horsley Park. It runs in a North – South and East- West direction in the vicinity of the site. The road provides a link between Old Wallgrove to the North and to Burley Rd to the East.
Speed Limit: 60km/h
Distance to Site: 0m (via Johnston Crescent)

Burley Rd is a 2-lane, 2-way road in Horsley Park. It runs in an East - West direction. The road provides a link between Old Wallgrove Rd to the West and to Walworth Rd to the East.
Speed Limit: 60km/h
Distance to Site: 1km approx. (Old Wallgrove Rd)

4. Council Permits and Road Occupancy Licenses

4.1 Council Permits

The applicant has to ensure that prior to the implementation of any traffic control measures and/or installation of any temporary warning signs on public roads, a Road Occupancy Permit from Fairfield City Council's Assets Team has been obtained.

5. Construction & Traffic Management

JK Williams has been engaged for the construction of three warehouses and associated infrastructure at Lot 204 Johnston Crescent, Horsley Park.

5.1 Construction Stages: Dates & Work Hours

The project consists of 4 Stages. The start and end date 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.:	Commencement- 23rd of May 2022 Completion-29th of September 2022 Full Duration- 5 months
Stage 1	
Beginning Stage 1:	23/05/2022
Finish Date Stage 1:	27/07/2022
Hours of Work during Stage 1:	Mo – Fr: 7am – 6pm
	Sa: 8am – 1pm
Stage 2	
Beginning Stage 2:	23/05/2022
Finish Date Stage 2:	14/09/2022
Hours of Work during Stage 2:	Mo-Fr: 7am-6pm
	Sa: 8am-1pm
Stage 3:	
Beginning Stage 3:	23/05/2022
Finish Date Stage 3:	21/09/2022
Hours of Work during Stage 3:	Mo-Fr: 7am-6pm
	Sa: 8am-1pm
Stage 4:	
Beginning Stage 4:	23/05/2022
Finish Date Stage 4:	29/09/2022
Hours of Work during Stage 4:	Mo-Fr: 7am-6pm
	Sa: 8am-1pm

Table 2 - Construction Stage 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 management.

Stage 1

Stage 1 (Duration: 2 Months)	
Construction Works	• Bulk earthworks (export via truck and dogs) and construction of Southern boundary sleeper retaining wall
Traffic Management	• Heavy Vehicle Movement Signages **ARG 22-674 TGS** • Vehicle Ingress and Egress **ARG 22-675 TGS**

Stage 2

Stage 2 (Duration: 3.5 Months)	
Construction Works	• Bulk earthworks (export via truck and dogs)
Traffic Management	• Heavy Vehicle Movement Signages **ARG 22-674 TGS** • Vehicle Ingress and Egress **ARG 22-675 TGS**

Stage 3

Stage 3 (Duration:3.5 Months)	
Description of Works	• Bulk earthworks (export via truck and dogs) and construction of Western boundary retaining wall
Traffic Management	• Heavy Vehicle Movement Signages **ARG 22-674 TGS** • Vehicle Ingress and Egress **ARG 22-675 TGS**

Stage 4

Stage 4 (Duration: 4 Months)	
Description of Works	• Bulk earthworks (export via truck and dogs) and construction of Eastern boundary sandstone retaining wall
Traffic Management	• Heavy Vehicle Movement Signages **ARG 22-674 TGS** • Vehicle Ingress and Egress **ARG 22-675 TGS**

Table 3 - Stage Overview

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

5.3 Impact on nearby Construction Sites

There are no construction works in the proximity of the construction site.

5.4 Resident Access to Properties

All residents will be able to access their properties at all times.

5.5 Traffic Controller Requirements

All Traffic Controllers (TCs) who attend the construction site must hold the following accreditation 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 TGs and SWMS for the project on site, any modifications to the TGs must 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 Long Term Temporary Signage

Any signage that is in place for more than 2 weeks and is continuously required, should, where appropriate, be erected in a permanent manner on signposts sunk into the ground in accordance with AS 1742.3 CL 4.7.5. Where 2 signs are to be displayed together at one location, they may be displayed on the same mounting, either side by side or one above the other if suitable. If one of the 2 displayed signs is a Roadwork Speed Zone sign, it must be placed closest to the traffic.
Roadwork Speed Zone Signs shall be erected at a min. of 600mm between the ground and the underside of the sign. Sign sizes will be determined in accordance to AS 1742.3 Cl 3.2.3.

Long Term Temporary Signage must be installed by an experienced person holding a Transport for NSW accreditation of no less than an "Implement Traffic Control Plan" ticket.

Long Term Temporary Signage must accommodate daytime, nighttime & adverse weather conditions. All signs must meet the Australian Standards and Transport for NSW Specifications as per AS 1742.3 2009, Section 3.4.2 as well as the Austroads "Guide to Temporary Traffic Management".

6. Safety Devices

To protect workers from oncoming or passing traffic as well as road users from hazards within the construction site, safety measurements have to be taken.
Static Construction Sites that are closer than 3m to the edge of a live traffic lane require protection by safety barrier systems.
All Safety Barriers shall conform to the requirements of "Road Safety Barrier Systems" AS 3845 and be approved by Transport for NSW.

6.1 Fencing

Combo of ATF fencing along with permanent fencing will be erected along the entire boundary of the site and will be maintained for the duration of the construction works. The fencing is to ensure that only authorized personal can enter the site. The site access gates will be located on Lot 204 Johnston Crescent.

Figure 3- ATF Fencing around work zone

6.2 Street Lighting

The street lighting at the construction site is sufficient for nighttime works. No additional lighting is required for the duration of the construction works.

7. Construction Site Management

7.1 Site Compound

The Site Compound of the construction site is located at Lot 204 Johnston Crescent within the construction area.
Access to the site compound is via Lot 204 Johnston Crescent.

Figure 4 - Location of Site Compound

7.2 Contractor Parking Arrangements

Parking Spaces for staff and contractors are within the site compound once there has been enough earthworks completed of Stage 1 to permit onsite parking. Until then parking will be on private road fronting lot 204.

7.3 Incident and Complaint Management

Management and Reporting Protocols are outlined in JK Williams Construction Environmental Management Plan.

7.4 Material Handling

Handling of all materials throughout the constructions shall comply to the following:

- all loading operations of materials will occur within the construction site boundary
- no loading outside of provisioned areas
- equipment, materials, and waste will be kept within the construction site boundary

7.5 Environmental Procedures

A range of measurements, including those outlined in the Environmental and Sedimental Control Plan (ESCP) shall be implemented to ensure the following:

- no dirt or debris from construction vehicles is tracked onto the public road network
- reduce impacts to sensitive receivers, including, where practicable, operating noisy equipment away from sensitive receivers and implementing respite periods
- watering of dusty activities will be undertaken, or activities temporarily halted and then resumed once weather conditions have improved
- spill kits will be provided at appropriate locations and near the site compound, parking area, dangerous goods areas, and the main project work area
- all vibratory compactors must not be used closer than 30m from residential buildings unless vibration monitoring confirms compliance with the vibration criteria.
- Large heavy-duty driveways are present onsite from previous site use, as Austral masonry manufacturing yard.

8. Construction Site Access Management

The site access for each stage including Heavy Vehicle Routes will be outlined in the sections below. Construction Vehicles will use the indicated site accesses and ingress/egress the site in a forward motion, no reverse movements are allowed. Any turning movements will be carried out within the construction site boundaries.
No construction vehicles should obstruct any pedestrian crossings or footpaths. No Traffic Controller should stop general traffic to allow construction vehicles to enter or exit the site, without an approved ROL from Fairfield City Council.

Definition of Light & Heavy Vehicles for the purpose of this CTMP:

- Light Vehicles – Car, Ute, Four-Wheel Drive, small bus, and concrete trucks up to 9.6m in length
- Heavy Vehicles – range from a 12.5m Heavy Rigid Vehicle (HRV) up to 26.0m B-Doubles

All drivers must comply with the Driver Code of Conduct, outlined in Section 8.2.

All heavy construction vehicles will consult the NHVR Route Planner to determine their movements to and from site. The NHVR Route Planner can be viewed at https://www.nhvr.gov.a/road-access/journey-planner.

Transport for NSWs Oversize Over Mass Unit will be notified of the roadworks in the event that an oversized load needs to pass the worksite.

8.1 Site Access

The Site Entrances via Johnston Crescent as shown in the VMP **(Appendix B)**.
A swept path analysis diagram will demonstrate that 26m B- Double vehicles can satisfactorily traverse the requested route as well as it can safely turn into and out of the site without impacting other users as shown in **(Appendix C).**
Heavy Construction Vehicles will use the following routes to enter and leave the site:

Ingress via Old Wallgrove

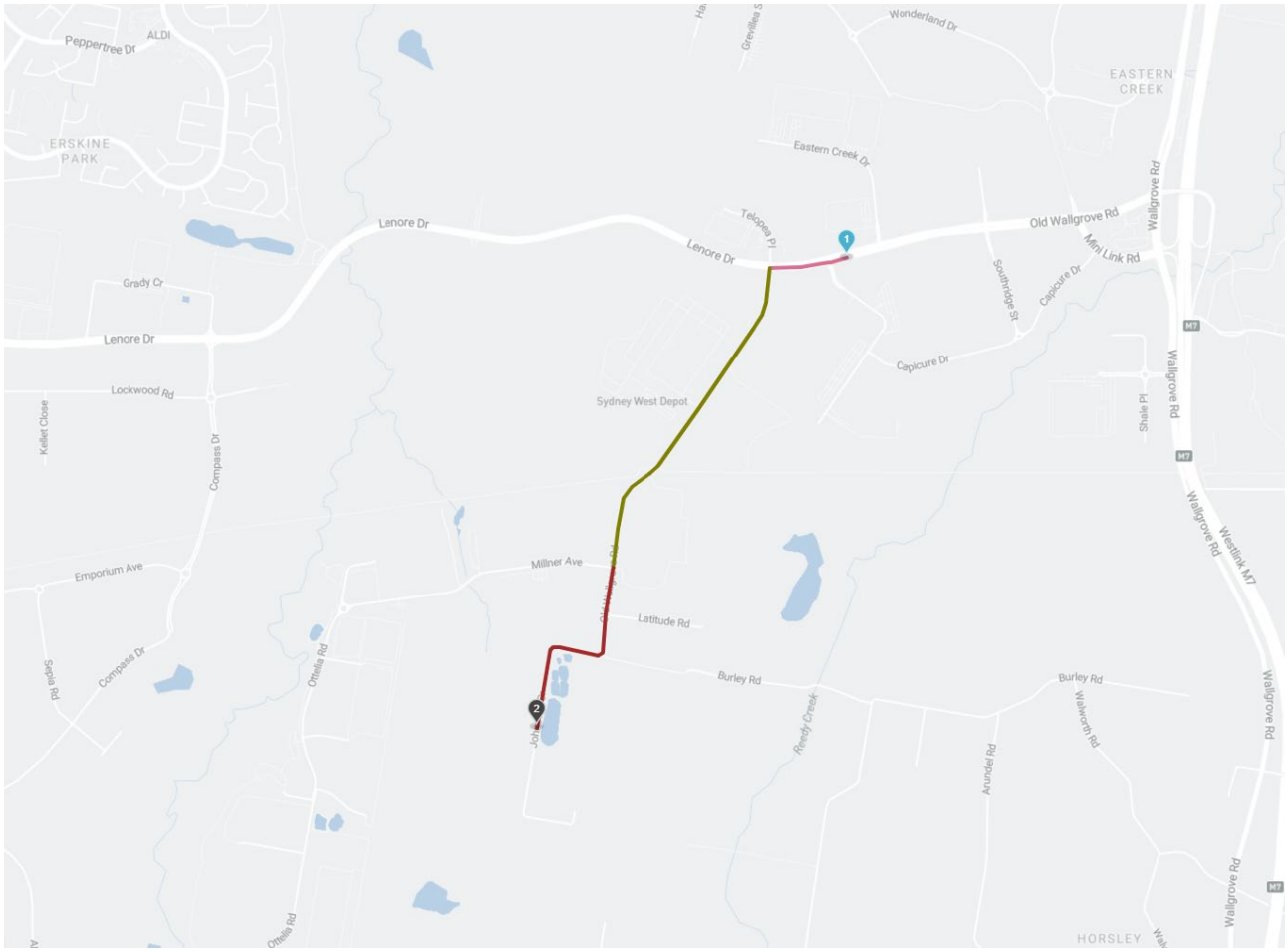


Figure 5 - Ingress via Old Wallgrove Rd

Construction Ingress via:

- Old Wallgrove Rd (EB)
- Lenore Dr (WB)

Egress via Lenore Dr

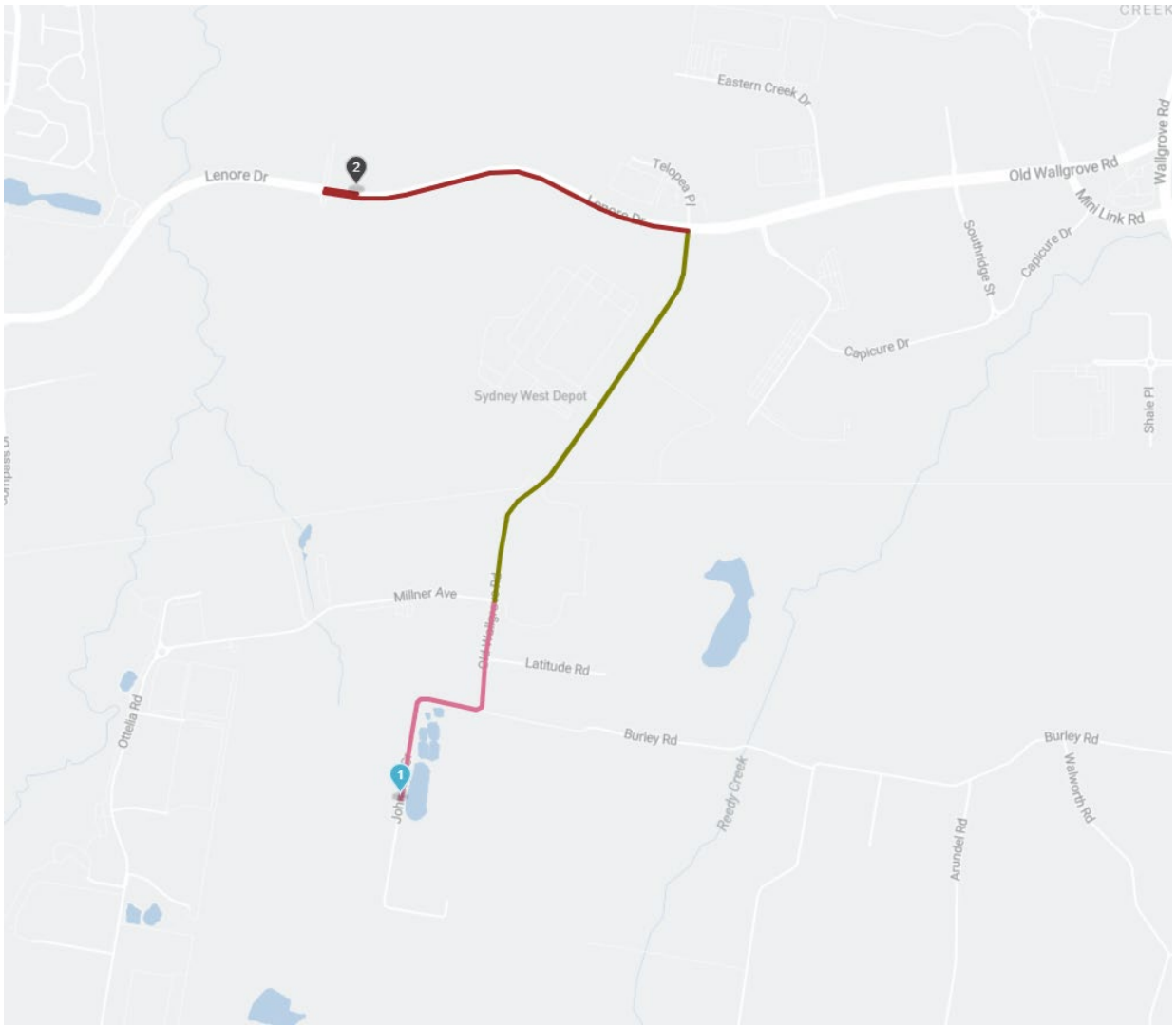


Figure 6 - Egress via Lenore Dr

Construction Egress via:

- Lenore Dr (WB)

8.1.1 Construction Vehicle Movements per Day

The following Construction Vehicles will be on site:

- Light Vehicles
- Excavators
- Trucks and Dogs
- Water Carts
- Float Shift

Throughout the duration of works there will be numerous movements daily which has been calculated at 55 movements per day. This is based on moving 1,000m^3 in one truck which will carry 38T (PBS loaded) each day.

	Mon	Tue	Wed	Thur	Fri	Sat	Sun
Light Vehicles	≤45	≤45	≤45	≤45	≤45	≤45	/
Heavy Vehicles	≤55	≤55	≤55	≤55	≤55	≤55	/

Table 4 - Construction Vehicle Movements all Stages

8.2 Driver Code of Conduct

All Drivers on Site must:

- be responsible and accountable for their own actions while operating a company vehicle
- must have a current Driver License for the class of vehicle they are operating
- comply with all traffic and road legislations
- undertake daily pre-start checks of oil, tyre pressures, radiator and battery levels of company vehicles that they regularly use
- drive within the legal speed limit incl. driving to the environmental conditions
- not drive outside the approved Heavy Vehicle Routes
- be cognizant of the noise and emission requirements imposed within the Environmental Impact Statement (EIS)
- not queue on public roads unless an approval has been sought
- never drive under the influence of alcohol and other drugs, incl prescriptions and over the counter medication that cause drowsiness, influences brain functions, neural activities and various vital functions of the body
    - report to their supervisor if they have been prescribed medication prior to the start of the works
- avoid distraction when driving
    - adjust car stereos/ mirrors etc. before setting off or pull over to safely do so
    - not play with their mobile phone while operating the vehicle
- report ALL near-misses, crashes, and scrapes to their manager
- report vehicle defects to a manager prior to the next use of the vehicle
- keep loads covered at all times

8.3 Work site inspections, recording and reporting

The inspection, review and audit of temporary traffic management (TTM) arrangements are critical to ensure that the work site is operating safely. As such, the structure, schedule and frequency of these activities must be considered and identified during the TTM planning phase. These aspects will vary depending on the size, complexity and duration of works as per TCWS technical manual V6 (2020) section 8.

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

9. Public Transport Services

9.1 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 Rooty Hill Station and is approx. 8.9km north of the site. This suggests that the construction works have minimal impact on the commute by rail.

9.2 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 stop to the construction site is "Lenore Dr opp Old Wallgrove Rd".

No Bus Stops within the vicinity of the construction site will be affected as there are no bus routes or travel paths that will be affected by construction works.

10. Impacts on the Community

10.1 Communication Strategy

A communication Strategy will be established by JK Williams 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 through letter box drops	Letter Box Drops by JK Williams
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 5 - Communication Strategy

10.2 Pedestrian Management

Pedestrians will not be affected by the construction works.

10.3 Cyclist Management

Cyclist can either use the road together with the vehicles on the road and obey the rules of the road or dismount their bicycle and pass the work area.

10.4 Emergency Services

Emergency vehicle can ingress and egress the site using the indicated site access on Old Wallgrove Rd and Johnston Crescent.

Dean Allan
Planner

PWZTMP No: TCT0020118

Appendix A – Traffic Guidance Schemes

Allroad Group Pty Ltd

Designed by: Dean Allan	Qualification No: TCT00201118
Role: Planner	
Signature:	N
Implementer Name:	Implementer Qualification No: TCT.....

Legend:

- 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
	00	sent to client
	01	

Review Date: 02/06/2022		Type of TTM: Static Works Mon-Fri: 7am-6pm Sat: 8am-1pm	Duration: 5 months
ROL No: ROL N/A		TTM Set-up: Heavy Vehicle Movement	
Sign Type: Permanent Signs		Shift TTM Inspections: after installation -> every 2h	
		Speed Limit: 50km/h	
		Traffic Volume: 250vph	Est. Queue Length: N/A
		Map Reference: SIX Maps	Scale: 1:500

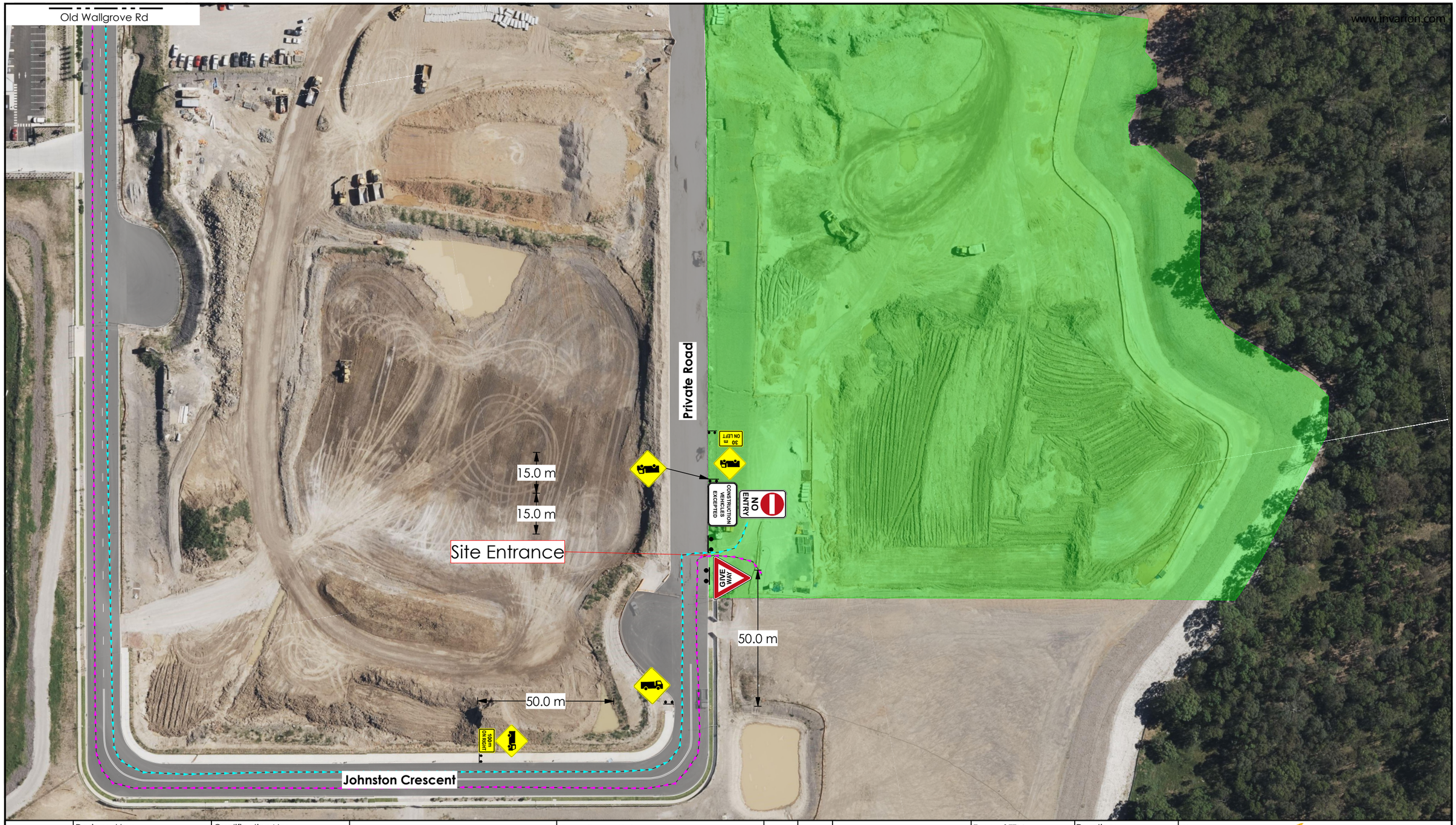
Client: jkWilliams

Project Description: Warehouse Constructions

Work Location: 327-335 Burley Rd, Horsley Park NSW 2175

Drawing No:	Issue Date:
ARG 22-674 TGS	02/05/2022

Appendix B – Vehicle Movement Plan



Allroad Group Pty Ltd

Designed by: Dean Allan	Qualification No: TCT00201118
Role: Planner	
Signature:	N
Implementer Name:	Implementer Qualification No: TCT.....

Legend:

- Egress
- Ingress
- 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
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REVISION

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		Speed Limit: 50km/h	
		Traffic Volume: 250vph	Est. Queue Length: N/A
		Map Reference: SIX Maps	Scale: 1:500

Client: jkWilliams

Project Description: Warehouse Construction

Work Location: 327-335 Burley Rd, Horsley Park NSW 2175

Drawing No:	Issue Date:
ARG 22-675 TGS	02/05/2022

Appendix C – Swept Path Analysis

Gate will be controlled by site personnel to ensure that only one truck utilizes the driveway at a time

PROPOSED 13.4m WIDE TEMPORARY VEHICULAR ACCESS

13.40 m

JOHNSTON CRECENT

LOT 204

EXISTING DOUBLE BARRIER LINEMARKING

26.0m B-DOUBLE SWEPT PATH

JOHNSTON CRECENT

LOT 201

LOT 202

JOHNSTON CRESCENT

JOHNSTON

CRESCENT

No.10 JOHNSTON CRESCENT

DP 1244593

PT.203 DP 1244593

201 DP 1244593

202 DP 1244593

LOT 204 SWEPT PATH PLAN

SCALE 1:200 AT A0 SHEET

Costin Roe Consulting

PRECISION | COMMUNICATION | ACCOUNTABILITY

Sketch #:	CO12990.11-SK220602-01
Designer:	XC Rev : B
Date:	02.06.2022
Issued For:	INFORMATION