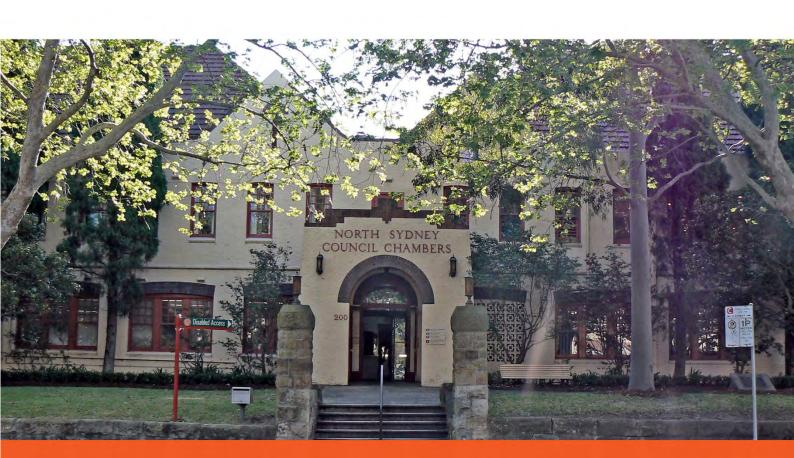


## **AGENDA**

A **MEETING** of the **Traffic Committee** will be held at the Council Chambers, 200 Miller Street, North Sydney at 10:00 AM on Friday 18 November 2022. The agenda is as follows.

# Joseph Hill A/GENERAL MANAGER



North Sydney Council is an Open Government Council. The records of Council are available for public viewing in accordance with this policy, with the only exception being made for certain confidential documents such as legal advice, matters required by legislation not to be divulged, and staff matters.

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#### 1. Confirmation of Minutes

The Minutes of the previous meeting held on 14 October 2022, copies of which had been previously circulated, were taken as read and confirmed.

2.	Disclosures of Interest
Nil	
<b>3.</b> Nil.	Matters Arising from the Minutes
4.	Matters Arising from Council Resolutions
Nil.	

#### 5. Items for Consideration

#### 5.1. Traffic Delegations

**AUTHOR:** Narelle Lamond, Traffic Operations Officer

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

#### **ATTACHMENTS:**

1. 5.01 Attach Traffic Delegations [**5.1.1** - 3 pages]

#### **PURPOSE:**

To report to the Committee matters given approval under delegated authority to the Traffic & Transport Operations Manager.

#### **EXECUTIVE SUMMARY:**

Attached is a list of projects given approval under delegated authority to the Traffic & Transport Operations Manager. Approval was given subject to concurrence of Transport for NSW, the NSW Police and the local State Members

#### **FINANCIAL IMPLICATIONS:**

There are no direct financial implications arising from this report

#### **RECOMMENDATION:**

**1. THAT** the information regarding Delegated Authority items be received.

#### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet diverse community needs
- 2.4 Efficient traffic mobility and parking

#### **CONSULTATION REQUIREMENTS**

Community engagement is not required.

# APPROVAL FOR PROJECTS UNDER DELEGATED AUTHORITY TO THE TRAFFIC & TRANSPORT OPERATIONS MANAGER 551st TRAFFIC COMMITTEE – 18 November 2022

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
Resident	Parking		•						•
Nil									
Tempora	ary Road Closu	res							
22-101	Willoughby Rd	425-429 Pacific Hwy	Registry, St Leonards, Willoughby	Temporary Road Closure	<ol> <li>THAT Council raise no objection to the temporary road closure of Willoughby Rd for 31.10.22, from 9pm-5am for the purpose of crane works, as per the submitted application and council's standard road closure conditions. Approval is subject to managed access to all affected properties and the applicant notifying all affected residents/tenants as per Council's standard conditions of approval.</li> <li>THAT should Council receive an application for an extension or alternative date/s to carry out these works due to inclement weather or operational delays, that application be approved, subject to Police Permit approval.</li> </ol>	Yes	25.10.22	9064604	
Chasiall	lee Zemas								
special C	Jse Zones	<u> </u>		<u> </u>	1.THAT the Traffic Management Plan	I		1	
22-096	McDougall Street	McDougall Street, Kirribilli	Milson, Cammeraygal, North Shore	TMP_Jacaranda	(TMP) for special event in McDougal Street be approved for the Jacaranda Season in 2022	Υ	21.10.22	9090154	

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
Regulato	ory Signs								
22/099	East Crescent Street	East Crescent Street, McMahons Point	Lavender Bay, Cammeraygal, North Shore	Street Shared Space	1.THAT the narrowing of street width and street scaping at the intersection of East Crescent Street and Blues Point Road, McMahons Point be approved to mitigate the speeding at this intersection.  2.That the introduction of pocket parking and signage relocation be approved at East Crescent Street and Blues Point Road, McMahons Point to ensure that there is no loss of parking.	Yes	26.10.22	9092598	
Signs Acr	ross Driveways	5	1	•					•
22-090	Bank Street	45 Bank Street, North Sydney	Union, Cammeraygal, North Shore	Line marking on the side of number 45	<b>THAT</b> Council paint a line on the right side of the driveway of 45 Bank Street.	Yes	5.10.22	9064478	
22-093	Ben Boyd Rd	28-26 Ben Boyd St, Neutral Bay	Neutral, Cammeraygal, North Shore	Driveway Line Markings	<b>THAT</b> Council paint a line on the either side of the driveway between 26 and 28 Ben Boyd Road Neutral Bay NSW 2089	Yes	17.10.22	9068754	
Warning	Signs								
Nil									
Construc	tion Managen	nent Plan				,			
22-094	Atchison Street	23-35 Atchison St Leonards NSW  Neutral, C Cammeraygal, Dem		CTMP – Demolition and Excavation only	1.THAT the traffic aspects of the Construction Traffic Management Plan dated 23.9.22 prepared by Local Traffic Services of the approved development (Development Consent 161/20) at 23-35 Atchison Street, St Leonards be approved subject to the conditions of approval.	Yes	20.10.2022	9065151	

No.	Street	Location	Precinct, Ward, Electorate	Issue	Recommendation	Appr	Date	ECM	Comments
Acceptable	Dead Dules	Compliance Circus			2.THAT a 10m Works Zone for stage 1 demolition and 2 x 10m Works Zones for stage 2 demolition on Atchison Street in this CTMP to be approved under delegated authority of Council's Traffic Engineer, with the same conditions pending lodgement of a Work Zone application and payment of all applicable fees.  3.THAT 2 x 10m Works Zones for stage 1 excavation and a 22m Works Zone for stage 2 excavation on Atchison Street in this CTMP to be approved under delegated authority of Council's Traffic Engineer, with the same conditions pending lodgement of a Work Zone application and payment of all applicable fees.				
	n Road Rules	Compliance Signs	T		T	1		1	
Nil									
Traffic Fa	acilities	•			•	•		•	•
Nil									
Council [	Decisions					•			-

# 5.2. 34 Grosvenor Street, Neutral Bay - Amended Construction Traffic Management Plan - Truck and Dog Trailers (Excavation Stage Only)

**AUTHOR:** Brin Baskaran, Traffic and Transport Engineer

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

#### **ATTACHMENTS:**

- 1. 5.4 Attach 30-34 Grosvenor Street, Neutral Bay CTMP Final G [5.2.1 60 pages]
- 2. 5.4 Attach 34 Grosvenor Street, Neutral Bay Truck and Dog Trailers CTMP Conditions [5.2.2 4 pages]
- 3. 5.4 Attach 30-34 Grosvenor Street, Neutral Bay CTMP Approval Letter & Conditions [5.2.3 5 pages]
- 4. 5.4 Attach TDA 22 068 @ 30-34 Grosvenor St, Neutral Bay CTMP [**5.2.4** 55 pages]

#### **PURPOSE:**

Council has received an amended CTMP for the approved development at 34 Grosvenor Street, Neutral Bay (Development Consent 237/20) prepared by Transport and Traffic Planning Associates dated September 2022 revision G proposing to use truck and dog trailers instead of 12.5m Heavy Rigid Vehicles (HRV).

The use of Truck and Dog is not generally supported by the Traffic Committee which has been a long-standing decision by Traffic committee members.

#### **EXECUTIVE SUMMARY:**

The current Construction Traffic Management Plan (CTMP) prepared by Transport and Traffic Planning Associates dated July 2022 revision E, was approved by the Traffic Committee under Delegated Authority (TDA 068/22).

Council has received an amended CTMP proposing to use of truck and dog trailers instead of Heavy Rigid Vehicles.

The use of Truck and Dog is not generally supported by the Traffic Committee due to trucks queuing in no stopping zones, unsafe reversing manoeuvres with inadequate traffic control posing an unsatisfactory risk to pedestrians and the general public. The trucks also have a wider turning path which poses a greater risk to pedestrians if the driver misjudges the turns at intersections or on driveways.

#### FINANCIAL IMPLICATIONS:

Nil.

#### **RECOMMENDATION:**

- **1. THAT** the proposed use of 19m Articulated Vehicles (on regular basis) and Truck and Dog trailers for 34 Grosvenor Street is not approved due to the following concerns:
  - 1. The Truck and Dog and 19m AV pass through high pedestrian activity area in Grosvenor Street on the route to the site. This is a potential pedestrian safety.
  - 2. The development at 34 Grosvenor Street shares the same truck route in Grosvenor Street and Ben Boyd Road with development at 12-14 Waters Road, which may impact on the road network and safety issues amongst the road users.
  - 3. Truck and Dog travels over the existing refuge island when turning left from Grosvenor Street onto Young Street.
  - 4. Truck and Dog straddles over two traffic lanes at the intersection of Young Street and Belgrave Street.
  - 5. Truck and Dog straddles over two traffic lanes at the sharp bend in Belgrave Street.
  - 6. The 19m AV straddles over two traffic lanes in Waters Road when turning left from Grosvenor Street.
  - 7. The 19m AV travels over a parked vehicle in Belgrave Street when turning left from Waters Road.
  - 8. The 19m AV straddles over two traffic lanes at the sharp bend in Belgrave Street.
  - 9. The report does not provide turning paths for:
    - Truck and Dog and 19m Av, carrying out left turn from Military Road onto Ben Boyd Road, which may conflict with parked vehicles on the western side of Ben Boyd Road.
    - b. Truck and Dog and 19m Av, carrying out right turn from Ben Boyd Road onto Grosvenor Street, which may straddle over two traffic lanes in Grosvenor Street.
  - 10. Safety concerns over the implementation of new cycleway in Young Street in 2023 when Truck and Dogs turn left on Young Street from Grosvenor Street.

In addition, the proposed truck route map is not consistent with the submitted truck turning paths.

- **2. THAT** should the Traffic Committee approve the use of Truck and Dog trailers:
  - a) The approval be subject to the attached conditions.
  - b) The applicant is to liaise with developers/site managers at 12-14 Waters Road, to minimise the development's traffic impacts and ensure that construction traffic from both developments is staggered in a way such that it does not create traffic issues.
  - c) Approval will be subject to a review period during the excavation phase.

#### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 5. Our Civic Leadership
- 5.3 Community is engaged in what Council does
- 5.4 Council services are efficient and easy to access

#### **CONSULTATION REQUIREMENTS**

Community engagement is not required.

Standard or Guideline Used: RMS Traffic Control at Work Sites Manual, AS 1742.3

Signs & Lines Priority: N/A

**Precinct and Ward:** Parks, St Leonards

Impact on Bicycles: Safety concerns over the new cycle way in Young Street when truck and

dogs turn left into Young Street from Grosvenor Street.

Impact on Pedestrians: Safety concerns over truck and dogs traveling through a high

pedestrian activity area in Grosvenor Street.

Impact on Parking: Potential loss of parking spaces in Belgrave Street and Ben Boyd Road

#### **DETAILS**

The current Construction Traffic Management Plan (CTMP) prepared by Transport and Traffic Planning Associates dated July 2022 revision E, for the approved development at 34 Grosvenor Street, Neutral Bay (Development Consent 237/20) was approved by the Traffic Committee under Delegated Authority (TDA 068/22) with the largest Truck size accessing the site of 12.5 Heavy Rigid Vehicle (HRV).

#### The original CTMP proposed truck movements to the site as follow.

\*It should be noted that approval to use 19m AV was only given for installation and dismantle of cranes.

#### **Demolition and Excavation Stage**

- 12.5m Length, the frequency is 1-3 Vehicles daily
- 19m Length, the frequency is 5-7 Vehicles daily (The use of 19m Articulated Vehicle (AV) was only approved for installation and dismantle of cranes)

#### **Structure Stage**

- 12.5m Length, the frequency is 1-3 Vehicles Daily
- 12.5m Length, the frequency is 30 Vehicles for Concrete pours (7 Times in Project life)
- 19m Length, the frequency is 1-3 Vehicles Per Week (The use of 19m Articulated Vehicle (AV) was only approved for installation and dismantle of cranes)

The restriction on the 19m AV under the approved CTMP, would have increased the frequency of 12.5m HRV trucks during all stages of work.

#### The amended CTMP proposes truck movements to the site as follow:

#### **Demolition Stage**

- 12.5m Length, the frequency is 1-3 Vehicles daily
- 19m Length, the frequency is 5-7 Vehicles daily

#### **Excavation Stage**

- 18.1m Length, the frequency is 1-2 Vehicles daily
- 19m Length, the frequency is 14-21 Vehicles daily

#### **Structure Stage**

- 12.5m Length, the frequency is 1-3 Vehicles Daily
- 12.5m Length, the frequency is 30 Vehicles for Concrete pours (7 Times in Project life)
- 19m Length ,the frequency is 1-3 Vehicles Per Week

The frequency of trucks between the original CTMP and amended CTMP at different stages of development are shown on the table below:

	Original CTMP Truck size/frequency	Amended CTMP Truck size/frequency
Demolition	<ul><li>HRV (1-3 Trucks)</li><li>AV (5-7 Trucks)</li></ul>	<ul><li>HRV (1-3 Trucks)</li><li>AV (5-7 Trucks)</li></ul>
Excavation	<ul><li>HRV (1-3 Trucks)</li><li>AV (5-7 Trucks)</li></ul>	<ul><li>T&amp;D (1-2 Trucks)</li><li>AV (14-21 Trucks)</li></ul>
Construction	<ul> <li>HRV (1-3 Trucks)</li> <li>HRV Concrete Pours (30 Trucks, 7 in total)</li> <li>AV (1-3 Trucks per week)</li> </ul>	<ul> <li>HRV (1-3 Trucks)</li> <li>HRV Concrete Pours (30 Trucks, 7 in total)</li> <li>AV (1-3 Trucks per week)</li> </ul>

It should be noted that the amended CTMP heavily relies on the use of 19m Avs during excavation stage which makes a total of 15-22 combined Truck and Dogs/19m Avs per day, compared to the proposal under the original CTMP with 6-10 combined 12.5m HRV/19m AV.

The CTMP has indicated that the use of Truck and Dog (T&D) will reduce the construction period by more than four months. Both original and amended CTMPs rely on the use of 19m

Articulated Vehicles (AV) throughout the development, where the amended CTMP is heavily relying on the use of AV during excavation stage.

The routine use of AV was not approved under the current CTMP and will not be supported on the amended CTMP. This is due to the unsafe maneuvering of the AV along the truck route on a regular basis.

In addition, none of the two CTMPS indicate timing of development phase to enable a rational comparison. Therefore, it is unclear as how the use of Truck and Dogs will reduce construction period by four months as stated in the amended CTMP.

Council's Traffic Engineers have concerns over the use of Truck and Dog and the 19m AV for this site mainly due to truck route traveling in high pedestrian activity area, safety concern for the bicycle users that will be using the new cycleway when it is implemented in Young Street, potential loss of parking spaces in Belgrave Street and Ben Boyd Road and trucks straddling 2 lanes of traffic when turning.

Further, various sites that are larger or similar scale to this site are only using 12.5m long Heavy Rigid Vehicle (HRV) as their largest truck.

# TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

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# 34 Grosvenor Street, Neutral Bay

**Proposed Residential Development** 

**Construction and Traffic Management Plan** 

Ref: 20136

September 2022 Date:

Issue: G Document Set ID: 9051547 Version: 1, Version Date: 23/09/2022

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1.0 Introduction

This Construction Traffic Management Plan (CTMP) has been prepared for the

approved residential development on 34 Grosvenor Street, Neutral Bay (Figure 1).

The popular Lower North Shore area is continuing to experience a continuation of the

transformation and redevelopment of underutilised buildings in recent years. This

process has been heightened as a result of the frequent/high-capacity bus services

(including the B-Line service), which provided improved public transport accessibility.

Due to its convenient location in the nearby supermarket, restaurant and entertainment

facilities within the Neutral Bay Local Centre, the site presents an ideal opportunity to

develop a residential apartment complex.

The approved development scheme comprises 9 residential apartments with lower-

ground and basement carpark.

The approved July 2022 CTMP proposes the use of up to an 8.8m medium rigid

vehicle for excavation stage. The use of truck and dog trailers will reduce the

construction period considerably by 4+ months (from 16-month construction program

to a 12-month program). This equates to a reduction of the construction duration by

25%.

To address the community concerns of minimising the construction period and

disruption to the local area., Australex Group (Australex) would like to seek Council's

approval as part of this updated CTMP to:

- utilise truck and dog trailers for excavation stage with additional traffic controllers

in the immediate surrounding of the site to ensure safety for pedestrians and

other vehicles.

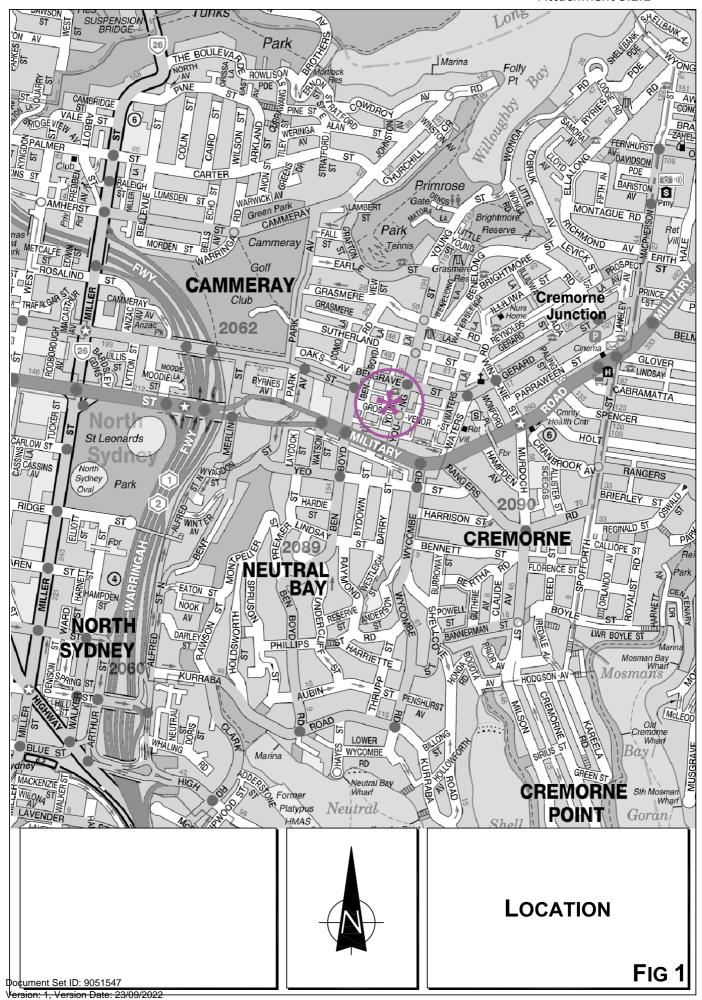
- permit MRV, HRV and semi to arrive/depart during peak hours noting that the

construction activities will only generate no more than 4 trucks during the peak

hour (1 truck every 15 minutes).

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This CTMP has been prepared by engineers who holds the Roads and Maritime Services/ SafeWork NSW - Prepare a Work Zone Traffic Management Plan accreditation, detailed as follows:

Siew Hwee Kong

Certificate No: SOC 5065905

Lachlan Ellson

Certificate No: 0052125163

The CTMP has also been reviewed and checked by a suitably qualified and experienced civil (traffic) engineer, Siew Hwee Kong (Meg), with 15 years of professional experience. Meg has completed CTMP for more than 200 sites in Sydney, including the North Sydney Council area.

2.0 Approved development Scheme

2.1 Site, Context and Existing Circumstances

The site (Figure 2) is a consolidation of 3 lots (Lots A, B and C of DP 341243)

occupying a rectangular-shaped total area of 839.3m<sup>2</sup> at 34 Grosvenor Street in

Neutral Bay. The site, with frontages of 18m to Young Lane and Young Street as well

as a 46m frontage to Grosvenor Street, is located just to the north of Grosvenor Street

between Young Lane and Young Street. The Neutral Bay Local Centre extends to the

south along Military Road.

The surrounding uses comprise:

the adjoining low and medium residential developments to the north, east and

west

the mixed-use extending along the southern side of Grosvenor Street and Military

Road.

The site is currently occupied by:

30 Grosvenor Street: a relationship health service provider known as "The Family

Systems Institute"

32 and 34 Grosvenor Street: 2 single dwelling houses.

Accesses to these properties are provided as follows:

30 Grosvenor Street: a driveway on Young Lane

32 Grosvenor Street: a driveway on Grosvenor Street

❖ 34 Grosvenor Street: a driveway on Grosvenor Street and another driveway on

Young Street.

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2.2 Approved Development

The approved development includes the demolition of all existing structures on-site

and undertakes an excavation to provide a level-platform for a 4-storey apartment

building and lower-ground and basement carpark.

The proposed new building complex comprises:

1 x One-Bed apartment

1 x Two-Bed apartments

7 x Three Bed apartments

**Total of 9 apartments** 

The 2-level carpark parking facility which can accommodate up to 15 spaces, will be

accessed via a single two-way driveway on Young Street:

Details are provided on the plans prepared by Koichi Takada Architects are reproduced

in part in Appendix A.

2.3 Construction Program

A process has been established for completion of the various work processes within

16 months with tentative commencement date of June 2022.

2.4 Construction Process

**Demolition** 

Demolition of existing building elements will be in the initial phase of the construction

process, with this activity being preceded by the erection of an A and B-Class

perimeter hoarding. The number of workers on the site at any one time will be 5 - 7

persons. The transport of demolition material will generally be undertaken by a single

unit type of up to 8.8m medium rigid vehicle (MRV). Up to MRVs will access the site

via the existing driveways on Grosvenor Street and stand within the site. When the on-

site structures have been demolished and the site is cleared, the trucks will enter via

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Grosvenor Street and exit via Young Street.

There will be no on-site parking for construction workers. All workers will be encouraged

to use public transport to access the site given the site's proximity to high-frequency

public transport services or carpool wherever possible.

A tool drop-off and storage facility will be provided within the site. This would allow

tradespeople to drop-off and store their tools and machinery, allowing them to use public

transport to travel to/ from the site on a daily basis. Workers will also be informed of with

appropriate tool/ equipment drop-off and storage arrangements made within site

sheds and amenities provided on-site. Bus and train schedules will be provided to all

workers during site induction to demonstrate alternative modes of transport available.

**Excavation** 

The number of workers on-site will remain at some 5 - 7 persons.

It is proposed to utilise up to 18.1m truck and dog trailers for the transport of excavated

material to reduce the duration of the excavation activities. The use of truck and dog

trailers (over to an 8.8m medium rigid vehicle (MRV)) is expected to reduce the

construction duration by 4 months.

During the excavation stage, construction vehicles associated with the excavation

process will rely on a 19m long works zone during the approved construction hours.

The works zone will be located on the northern side of Grosvenor Street to the west

of the Grosvenor Street driveway and can accommodate up to 19m semi (including

truck and dog trailers). A separate application for the works zone would be submitted

as required for approval from Council prior to the implementation of the works zone.

3 on-street parking spaces on the northern side of Grosvenor Street would have to be

temporarily removed during the construction for the works zone provision. These

parking spaces are currently used by the buildings (including Alouette Child Care on

3 Grosvenor Street) which will be demolished.

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As such, the temporary loss of 3 parking spaces would present a negligible impact to

the existing on-street parking conditions.

**Construction and Fitout** 

The construction and fitout phase will be the process of longest duration and at peak,

activity involved in the order of 15 – 20 persons on the site any one time, with more

visitations during concrete pours.

During construction, vehicle access for this process will be via works zone. The

provision for loading/unloading for this process will involve up to 19m semi standing

within the works zone, with all materials be unloaded and stored within site.

The new parking spaces will be available for workers during the fitout process. This

process will only involve small, infrequent deliveries which can occur in the areas

adjacent to the new building with access through the new driveway on Young Street.

**Crane Installation/Dismantling** 

It is noted that a 19m semi will only be used for the erection/dismantling of the tower

crane. Australex will submit a separate permit to stand plant/road closure application to

Council for approval.

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3.0 Road Network and Traffic Conditions

3.1 Road Network

The existing road network serving the site (Figure 3) comprises:

❖ Gore Hill / Warringah Freeway – a State Road (MR 651) and an arterial route

connecting between Gore Hill Freeway in Naremburn in the north and Lavender

Street in North Sydney to the south. The road generally runs in a north-south

direction and has 3 lanes of traffic in each direction with a line marked divided

carriageway.

Military Road – a State Highway (HW 10) and arterial route linking the Warringah

Freeway at North Sydney in the south to Newcastle Freeway at Ourimbah

Interchange in the north. The road generally runs in a north-south direction and

has three lanes (including 1 T3 lane) of traffic in each direction.

❖ Young Lane – a local, unclassified laneway that is primarily used to provide rear

vehicular and pedestrian access to properties fronting Young Lane.

Grosvenor Street – a local access road that traverses in an east-west direction

connecting Ben Boyd Road and Waters Road.

Young Street – a minor collector road that traverses in a north-south direction

connecting Military Road and Young Street-Earle Street.

Young Street has a straight and level alignment along the site's frontage. It has a

carriageway width of 12.5m with a single lane of traffic in each direction and kerbside

parking on both sides of the road.

3.2 Traffic Controls

The existing traffic controls in the vicinity of the site (Figure 4) comprise:

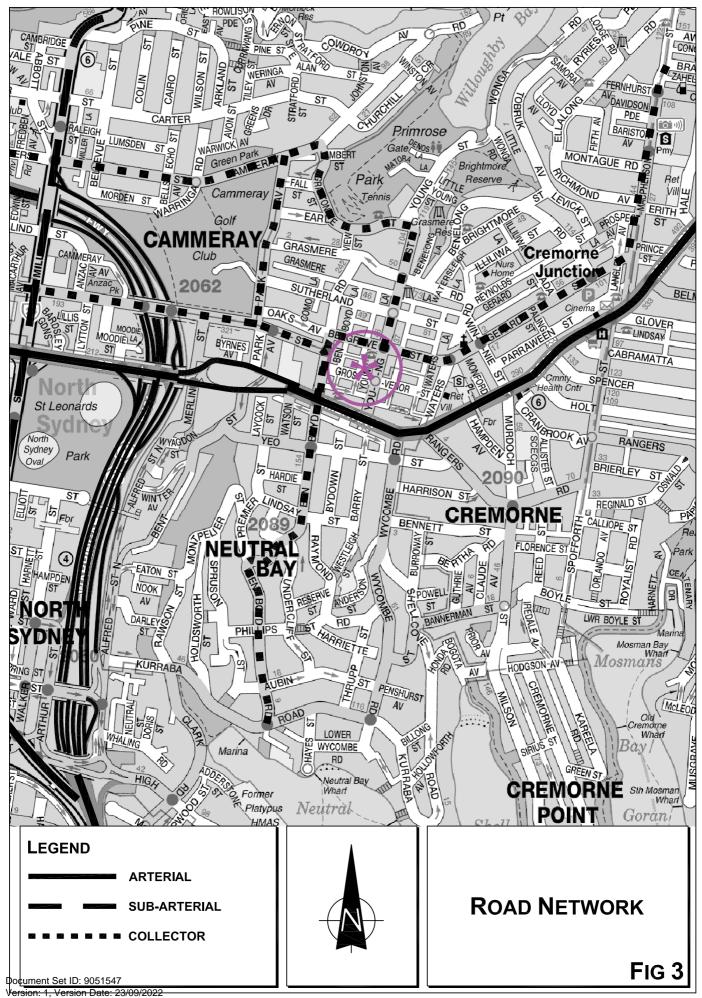
the traffic signal-controlled intersections along:

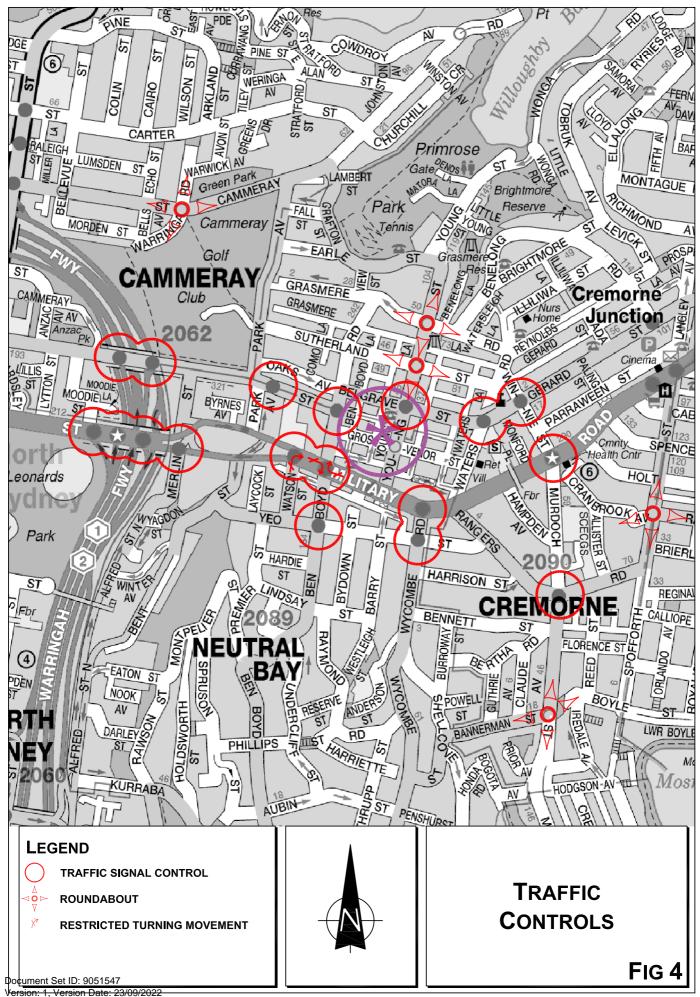
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- the Military Road including the Ben Boyd Road, Wycombe Road and Waters Road-Rangers Road, Watson Street-Young Street intersections
- the Ben Boyd Road/ Ernest Street, Young Street/Belgrave Street and Belgrave Street-Gerard Street/Waters Road intersections
- a signalised pedestrian crossing in Military Road, just west of Young Street
- the numerous NO RIGHT TURN restrictions along Military Road including the No right-turn eastbound and westbound restrictions in Military Road turning onto Ben Boyd Road
- a central median island in Military Road, which restricts right-turn movements into and out of Young Street.
- the roundabout at the Young Street/Grosvenor Street intersection
- ½P restrictions along both sides of Military Road. Clearway restrictions operate between 6:00 am and 10:00 am and 3:00 pm and 7:00 pm, Monday to Friday.
- No Parking restrictions along both sides of Young Lane
- ½P restrictions along the northern side of Grosvenor Street along the site's frontage between 8:30 am and 6:00 pm (Monday through Friday) and between 8:30 am and 4:00 pm, Saturday. These restrictions do not apply to permit holders of Area 27.
- ❖ 2P restrictions along both sides of Young Street along the site's frontage between 8:30 am and 6:00 pm (Monday through Friday) and between 8:30 am and 12:30 pm, Saturday. These restrictions do not apply to permit holders of Area 27.
- No Stopping zone on the western side of Young Street between 4:30 pm and
   6:30 pm (Monday through Friday)
- a posted speed limit of 80kph on Gore Hill / Warringah Freeway
- a posted speed limit of 60kph on Military Road

a posted speed limit of 50kph on all local roads including Grosvenor Street,
 Young Street and Young Lane

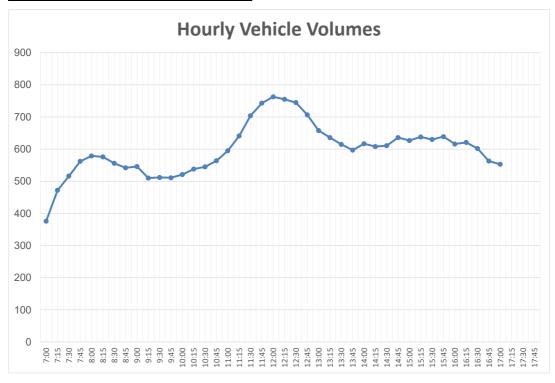
#### 3.3 Traffic Conditions

An indication of the existing traffic and pedestrian conditions at the intersection of Grosvenor Street/Young Street in the vicinity of the site is provided by the surveys undertaken as part of this study. The surveys were completed to support the use of truck and dog trailers for the site. The surveys were completed on Thursday, 1 September 2022, between 7:00 am and 6.00 pm. The survey periods coincide with the peak commuting and late-night shopping periods. The results of traffic surveys indicate the peak traffic and pedestrian movements occur during:

AM Peak: 11:00 am - 12:00 pm
 PM Peak: 12:00 pm - 1:00 pm

Details of the survey is provided overleaf with the peak hour data summarised in the following figures.

#### **Hourly Intersection Vehicle Volumes**

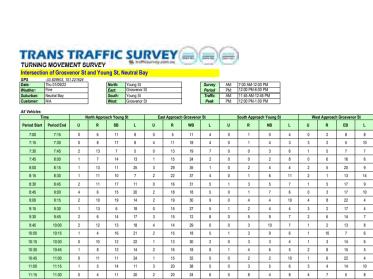


Hourly West Approach Total

Hourly Total

145

164



15 2 16

20 1 23

23 4 16

13 2 22

7 2 22

0 15

13

13 18 2 20

7 0

11 0 12 2

45 9 0

34 5 2

38 4 0 21 2 15 16 5 1 3 9 6

45 7 2 7 6 5 5 3 23 9

11:30

11:45

12:00

12:30

13:15

13:45

14:00

14:15

15:30

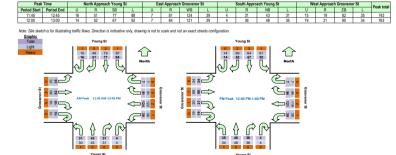
16:00

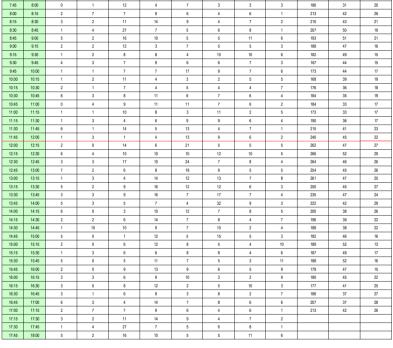
16:30 16:45

12:45

5 14

_		,	Pedestrians	Crossing				West Appro			
irly	Total		Tir			ach Young St		Grosvenor St		ach Young St	West Appro
	Peak		Period Start	Period End	Westbound	Eastbound	Southbound	Northbound	Westbound	Eastbound	Southbound
			7:00	7:15	3	2	3	3	4	3	6
			7:15	7:30	0	1	7	5	3	4	8
			7:30	7:45	1	1	15	4	3	5	8
			7:45	8:00	0	1	12	4	7	3	3
			8:00	8:15	2	7	7	9	6	4	6
			8:15	8:30	3	2	11	14	9	4	7
			8:30	8:45	1	4	27	7	5	6	8
			8:45	9:00	5	2	16	10	5	5	- 11
			9:00	9:15	2	2	12	3	7	5	5
			9:15	9:30	1	2	8	8	4	10	10
			9:30	9:45	4	3	7	9	6	6	7
			9:45	10:00	1	1	7	7	17	9	7
			10:00	10:15	1	2	11	4	3	2	5
		ĺ	10:15	10:30	2	1	7	4	5	4	4
Ī		1	10:30	10:45	6	3	8	11	6	7	6
		1	10:45	11:00	0	4	9	11	11	7	6
Ī	Peak	1	11:00	11:15	1	1	10	8	3	- 11	2
		ĺ	11:15	11:30	1	3	4	6	9	9	6
Ī		1	11:30	11:45	6	1	14	5	13	4	7
		ĺ	11:45	12:00	1	3	1	4	13	9	6
ī	Peak		12:00	12:15	2	0	14	6	21	5	5
		i	12:15	12:30	6	4	10	10	10	12	10
Ī		1	12:30	12:45	3	3	17	10	24	7	8
		i	12:45	13:00	7	2	6	8	19	9	5
Ī		i	13:00	13:15	1	3	4	14	12	13	7
		i	13:15	13:30	5	2	9	16	12	12	6
Ī		1	13:30	13:45	3	3	9	16	7	17	7
		i	13:45	14:00	5	3	5	7	4	32	9
Ī		i	14:00	14:15	6	0	3	10	12	7	8
		i	14:15	14:30	2	2	6	14	7	8	4
Ī		i	14:30	14:45	1	10	10	9	7	10	2
		i	14:45	15:00	5	0	1	12	5	15	5
Ī		i	15:00	15:15	2	0	6	12	8	5	4
		i	15:15	15:30	1	3	6	6	8	8	4
T		i	15:30	15:45	5	0	5	11	7	5	3
		i	15:45	16:00	2	0	9	13	9	6	5
T		i	16:00	16:15	3	3	6	9	10	3	2
T		i	16:15	16:30	3	0	8	12	2	5	10
T		1	16:30	16:45	3	1	6	8	3	8	2
ī		1	16:45	17:00	6	3	4	14	7	8	6
T		i	17:00	17:15	2	7	7	9	6	4	6
1		1	17:15	17:30	3	2	11	14	9	4	7
1		i	17:30	17:45	1	4	27	7	5	6	8
1		1	17:45	18:00	5	2	16	10	5	5	11
_		1				-					





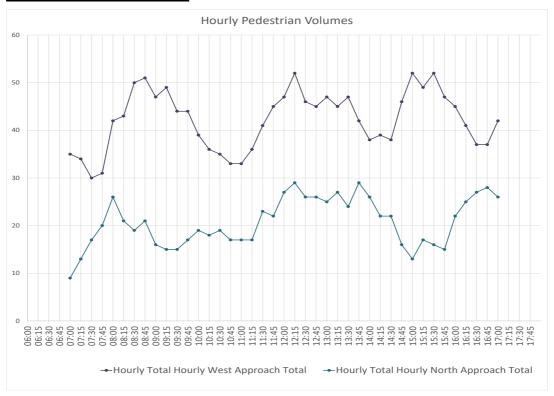
		Young St		
		10 9	North	
Grosvenor St	29 28 19 10	Pedestrians  AM Peak 11:45 AM-12:45  PM Peak 12:00 PM-1:00	42 47 47 34 30	Grosven or St
		74 68 33 33		
		Young St		

Light Vehicles	me	l N	orth Appro	ach Young	St	Ea	st Approac	h Grosveno	r St		South Appro	ach Young S	West Approach Grosvenor St				
	Period End	U	R	SB	L	U	R	WB	L	U	R	NB NB	L	U R EB L			
7:00	7:15	0	6	11	8	0	5	10	4	0	1	0	- 4	0	- 1	7	8
7:15	7:30	0	8	17	8	4	11	15	4	0	1	4	3	3	1	5	10
7:30	7:45	2	13	7	5	0	13	19	5	0	0	3	6	0	3	7	7
7:45	8:00	1	7	14	13	1	15	24	2	0	0	2	8	0	4	15	6
8:00	8:15	1	13	11	25	3	29	34	1	0	2	4	4	2	5	20	9
8:15	8:30	1	11	10	7	2	22	37	4	0	1	6	11	2	1	13	14
8:30	8:45	2	-11	17	10	0	16	30	5	1	3	5	6	- 1	3	17	9
8:45	9:00	4	5	13	19	2	18	16	5	0	- 1	7	6	0	2	16	10
9:00	9:15	2	9	19	14	2	19	29	9	0	4	4	10	4	8	22	4
9:15	9:30	1	12	6	18	0	14	25	5	1	2	4	4	3	2	17	4
9:30	9:45	2	6	13	17	3	15	10	7	0	5	9	5	2	5	13	7
9:45	10:00	2	10	12	18	4	14	28	0	0	3	10	7	1	1	13	8
10:00	10:15	1	4	16	21	2	15	16	5	1	3	9	6	1	10	7	6
10:15	10:30	0	10	12	22	1	13	28	2	0	3	3	4	1	2	14	6
10:30	10:45	1	8	12	14	2	16	18	9	1	4	6	5	2	7	15	5
10:45	11:00	0	11	11	24	1	14	30	5	0	2	2	10	1	5	22	4
11:00	11:15	1	5	14	10	3	20	37	5	0	3	5	6	3	3	14	10
11:15	11:30	0	4	11	20	2	20	24	6	0	8	4	8	4	6	5	8
11:30	11:45	1	2	11	15	2	16	32	7	0	3	10	10	2	9	15	6
11:45	12:00	2	8	23	19	1	23	35	10	0	3	6	10	3	6	14	9
12:00	12:15	2	10	19	23	2	20	26	12	2	13	17	4	4	5	21	5
12:15	12:30	6	16	20	28	2	18	17	9	0	8	14	11	3	5	23	12
12:30	12:45	5	14	13	17	2	20	44	7	2	7	6	5	5	3	22	9
12:45	13:00	1	10	12	23	1	26	32	10	0	8	11	14	7	7	23	8
13:00	13:15	2	7	22	15	3	12	44	13	0	2	9	9	3	2	26	5
13:15	13:30	1	11	23	20	1	27	45	9	0	1	6	6	2	4	17	10
13:30	13:45	2	4	10	20	1	23	33	4	0	5	8	5	2	1	21	6
13:45	14:00	2	3	14	25	1	21	34	7	0	1	6	5	4	2	19	4
14:00	14:15	1	11	17	12	3	24	33	8	2	4	7	6	1	8	16	1
14:15	14:30	2	10	9	23	4	16	39	8	0	1	9	11	2	6	16	5
14:30	14:45	0	7	12	14	2	17	23	3	1	2	7	7	4	7	13	7
14:45	15:00	0	11	9	14	4	17	39	3	0	7	10	5	4	8	21	10
15:00	15:15	0	17	13	17	0	17	23	5	1	2	7	17	0	4	18	7
15:15	15:30	0	8	8	22	3	28	31	2	0	2	12	10	2	3	27	7
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17:15	17:30	1	11	10	7	2	22	37	4	0	1	6	11	2	1	13	10
17:30	17:45	1	4	16	21	2	15	16	5	1	3	9	6	1	10	7	6
17:45	18:00	0	10	12	22	1	13	28	2	0	3	3	4	1	2	14	6

Peak	Time	l N	lorth Appro	ach Young	St	Ea	st Approac	h Grosveno	ır St		South Appro	ach Young S	t	We	st Approac	h Grosven	or St	Peak tota
	Period End	U	R	SB	L	U	R	WB	L	U	R	NB	L	U	R	EB	L	
11:45 12:00	12:45 13:00	15 14	48 50	75 64	87 91	7	81 84	122 119	38	4	31 36	43 48	30 34	15 19	19 20	80 89	35 34	730 751
	•				- 51									- 10	20	- 00	- 04	
Heavy Vehicle	me .		lorth Annro	ach Young	St	l Fo	et Annroac	h Grosveno	ır St		South Appro	ach Young S	at .	l We	et Annroar	h Grosven	or St	1
Period Start		U	R	SB	L	U	R	WB	L	U	R	NB NB	L	U	R	EB	L	ı
7:00	7:15	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1
7:15	7:30	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	1
7:30	7:45	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	0	1
7:45	8:00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1
8:00	8:15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
8:15	8:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30	8:45	0	0	0	1	0	0	1	0	0	0	0	1	0	2	0	0	1
8:45	9:00	0	1	2	1	0	0	2	0	0	0	0	0	0	- 1	1	0	1
9:00	9:15	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
9:15	9:30	0	- 1	0	0	0	- 1	2	0	0	0	0	0	0	0	0	0	1
9:30	9:45	0	0	1	0	0	0	2	1	0	0	0	2	0	1	1	0	1
9:45	10:00	0	2	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1
10:00	10:15	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1
10:15	10:30	0	0	0	0	0	0	2	0	0	0	0	0	0	- 1	0	0	1
10:30	10:45	0	0	0	0	0	0	0	0	0	0	0	0	0	- 1	0	0	1
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11:00	11:15	0	0	0	1	0	0	1	0	0	0	0	0	0	- 1	0	0	1
11:15	11:30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
11:30	11:45	0	1	0	0	0	0	1	0	0	0	0	0	0	2	0	0	1
11:45	12:00	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1
12:00	12:15	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12:15	12:30	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12:30	12:45	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1
12:45	13:00	0	0	1	0	0	0	1	1	0	0	0	0	0	- 1	0	0	1
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13:45	14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
14:00	14:15	0	0	0	0	0	0	1	1	0	0	0	1	0	1	0	0	1
14:15	14:30	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
14:30	14:45	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
14:45	15:00	0	0	2	0	0	0	0	1	0	0	1	2	0	0	0	0	1
15:00	15:15	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
15:15	15:30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
15:30	15:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
15:45	16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16:00	16:15	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
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16:45	17:00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	t
17:00	17:15	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1
17:15	17:30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
17:30	17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17:45	18:00	0	0	0	1	0	0	1	0	0	0	0	1	0	2	0	0	1
		<u> </u>	_			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	_		_	<u> </u>	1

Peak	k Time	N.	lorth Appro	ach Young	St	East Approach Grosvenor St					South Appro	We	Peak total					
Period Start	Period End	U	R	SB	L	U	R	WB	L	U	R	NB	L	U	R	EB	L	reak total
11:45	12:45	1	3	2	1	0	0	2	1	0	0	0	1	0	0	2	0	13

#### **Hourly Pedestrian Volumes**



#### As shown on the above data:

- the vehicle volumes at the Grosvenor Street/Young Street intersection peaks outside the standard commuting peak hours between 11am and 1pm.
- the vehicle volumes at the Grosvenor Street/Young Street intersection during:
  - o the AM commuting peak hour is 576 veh/hour
  - o the PM commuting peak hour is 621 veh/hour
- the above AM and PM commuting peak hour vehicle volumes of 11 veh/minute and are distributed among the 4 intersection legs
- the affected north-south pedestrian crossing (west approach) has a peak hourly volume of 51 pedestrians per hour (no more than 1 pedestrian per minute)
- the affected east-west pedestrian crossing (north approach) has a peak hourly volume of 29 pedestrians per hour (no more than 1 pedestrian per 2 minutes)

Based on the minor pedestrian movements and to minimise the traffic impact on

vehicular traffic, it is proposed to permit the use of truck and dog trailers prior to 11am.

The roundabout creates ample and safe gaps are available in the Young Street traffic

flow for vehicles to ingress and egress the site.

3.4 Existing Transport Services

The site is highly accessible by public transport.

**Bus Services** 

Access to the Metropolitan Transport Network for the site is currently provided by the

more than 40 bus services which run along the Military Road (with the nearest bus

stop 150m walking distance southeast of the site).

These services provide express bus services to the Central Sydney CBD and

connections to North Sydney and St Leonards Railway Stations, Chatswood

Interchange, allow access to the wider public transport network with this railway/Metro

station providing services on the T1 – North Shore Line and the CCN – Central Coast

- Newcastle Line and Sydney Metro, providing a connection to the City and the wider

rail network.

These services also provide connections to the Ferry Services on Sydney Harbour at

Neutral Bay and Cremorne Point wharves, Northern Beaches area, including Manly

Vale, Brookvale, Dee Why, Narrabeen, Newport, Mona Vale and Palm Beach, Kirribilli,

Cammeray and Crows Nest.

Bus services into and out of the City via the Warringah Freeway have the benefit of

dedicated bus lanes for the majority of the journey, resulting in reduced travel times

between Neutral Bay and Wynyard. The site is therefore considered to be very well

served by public transport services. These bus routes provide frequent services during

the weekday peak hour periods. Details of the bus services available are provided in

Appendix B

Ref. 20136

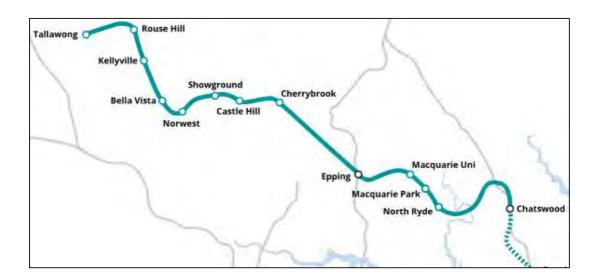
Document Set ID: 9051547 Version: 1, Version Date: 23/09/2022

#### **Railway Services**

North Sydney Railway Station is located approximately 1.8km southwest of the site and is accessible by bus routes 229 and 230. The station is a major hub in the Sydney Trains network, with frequent services on four rail lines, namely T1 – North Shore Line and the CCN – Central Coast and Newcastle Line. Details of the train services available at the North Sydney Station are provided in Appendix B

#### **Metro Services**

The Sydney Metro Northwest project is one of Australia's largest public transport infrastructure projects and currently delivers faster, safer and more reliable service to the northwest region of Sydney. The Sydney Metro Northwest provides a rail connection from the existing Chatswood Interchange through to Cudgegong Railway Station. As part of this connection, the train line passes through Chatswood Station, which provides an additional train every four minutes during the weekday AM and PM peak periods. The station locations and rail alignment of the Sydney Metro are shown below. Details of the Metro services available at the Chatswood Station are provided in Appendix B.

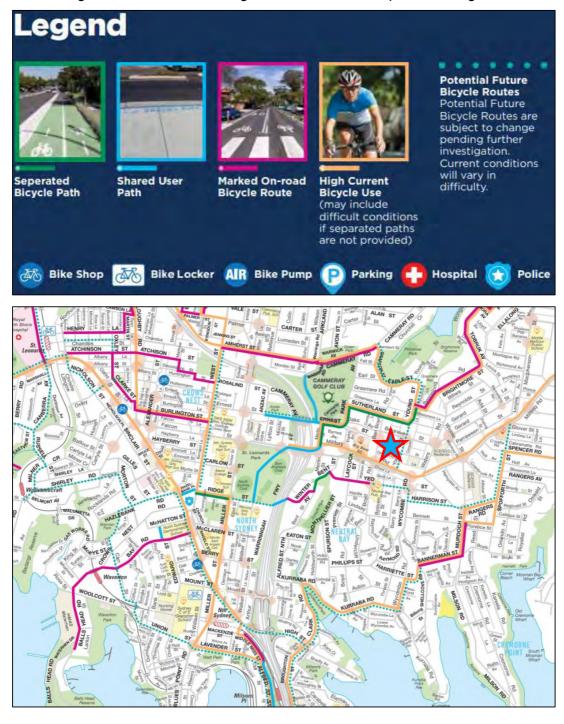


#### **Pedestrian Infrastructure**

Pedestrian footpaths are located on both sides of all streets surrounding the site. Marked foot crossings are provided at all signalised intersections within the area, including along Young Street, West Street and Miller Street.

#### **Cycle Infrastructure**

The site is well situated within Sydney's cycle network with cycle routes surrounding the site with the nearest route along Military Road to the south of the site. The bicycle network surrounding the site is shown in the figure below, with details provided in figure overleaf.

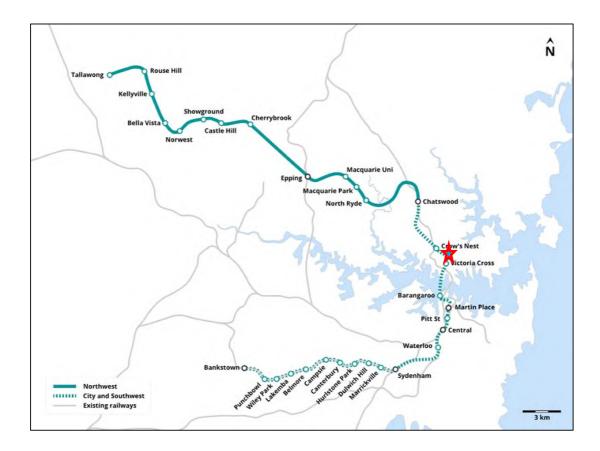


### 3.5 Proposed Transport Services

The site is located within 2km of Crows Nest Metro Station, which is currently under construction as part of the Metro City and Southwest Line. After completion in 2024, this station will provide metro trains every four minutes during peak hours and connect the area to Sydney Central Business District, Northwest Sydney and Southwest Sydney.

The site is expected to benefit greatly from the Sydney Metro project, given the increased incentives to travel by train on the regular fast service with the Neutral Bay town centre planning, largely reflecting this inherent change.

The station locations and rail alignment of the Sydney Metro are shown below.



Ref. 20136 14

# 4.0 Proposed Construction Traffic Management Plan

### 4.1 Construction Vehicle Route

Truck movements associated with the construction processes will access the site via Grosvenor Street, as illustrated in Figure 5. Details of critical vehicles swept paths in and out of the site are provided in Appendix C.

It is noted that on departure:

- 6.4m small rigid vehicle (SRV) will use Ernest Street towards Warringah Freeway/Pacific Highway given that Ernest Street has 10t load limit
- All vehicles longer than SRV, i.e., MRV, HRV and semi will use Ben Boyd Road towards Military Road

## 4.2 Truck Movements

The envisaged truck arrivals will be:

#### **Demolition Stage**

12.5m Length

The frequency is 1-3 Vehicles daily

The total load is 23 ton

19m Length

The frequency is 5-7 Vehicles daily

The total load is 48 ton

#### Excavation Stage

18.1m Length

The frequency is 1-2 Vehicles daily

The total load is 23 ton

19m Length

Ref. 20136

The frequency is 14-21 Vehicles daily

The total load is 48 ton

#### For Structure Stage

12.5m Length

The frequency is 1-3 Vehicles Daily

The total load is 23 ton

12.5m Length

The frequency is 30 Vehicles for Concrete pours (7 Times in Project life)

The total load is 27 ton

19m Length

The frequency is 1-3 Vehicles Per Week

The total load is 48 ton

Given the low truck movements, a truck holding area will not be required. Truck drivers will be advised of the designated truck routes to/ from the site. No queuing or marshalling of trucks will be permitted on public roads in the vicinity of the site. Accredited traffic controller/ site personnel will ensure they are in radio contact with truck drivers, ensuring each vehicle arrival is anticipated and planned.

## 4.3 Construction Hours

The hours of construction activity will be:

7.00am – 5.00pm Monday to Friday

8.00am – 1.00pm Saturday

No work Sunday and public holidays

## 4.4 Pedestrian Management

The following protections would be provided for pedestrians in the perimeter of the site:

Ref. 20136

Grosvenor Street and Young Street: Class B hoarding will be provided on the

footpath along the northern side of Grosvenor Street and the western side of

Young Street, to ensure safe pedestrian passage past the site.

Young Lane: Pedestrians walking along the pedestrian link along Markham

Avenue will be protected by A-Class hoarding

RMS accredited traffic controllers will supervise all vehicle and materials movements

into and out of the site, loading area and works zone, as well as loading/unloading

activities at all times.

4.5 Contact Details

The contact person who is to have authority without reference to other persons to

comply with instructions issued by the Council's Traffic Engineer or the Police is as

follows:

Rohail Iyaz

General Manager

Australex Group Pty Ltd

rohail@australex.net.au

4.6 Works Zone

A 19m long Works Zone will be required on the 30, 32 and 34 Grosvenor Street

frontage during the latter construction and fitout processes to facilitate delivery

vehicles stoppages.

The Works Zone will require the temporary removal of 2-3 on-street parking spaces

on the northern side of Grosvenor Street.

A separate application for the works zone would be submitted separately as required

for approval from the North Sydney Traffic Committee prior to the operation of the

works zone. The applicant will pay all appropriate Council advertised fees and

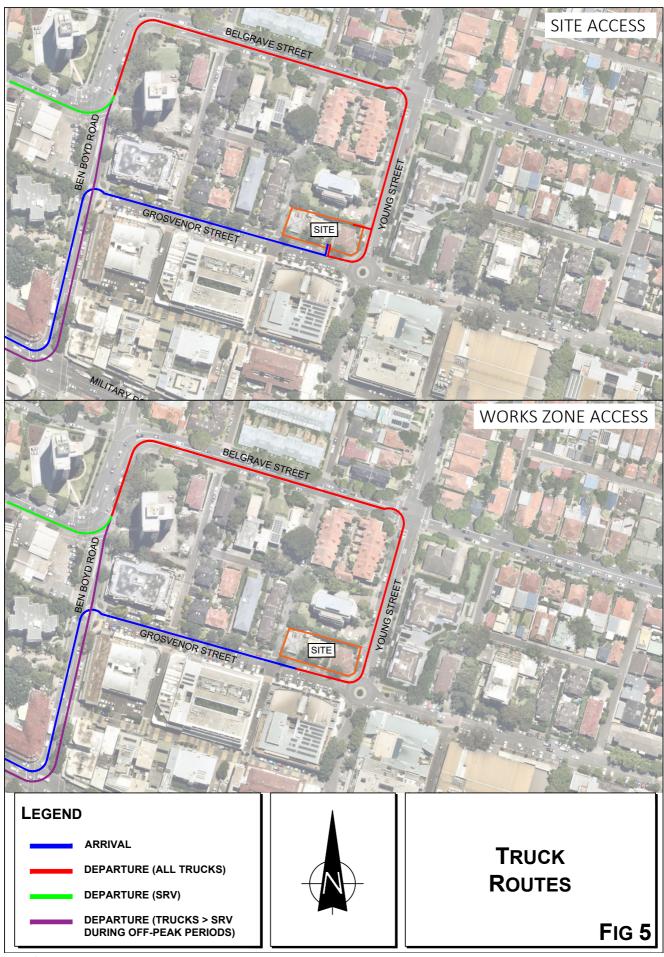
charges, including the cost of the signage and loss of parking fee. It is noted that there

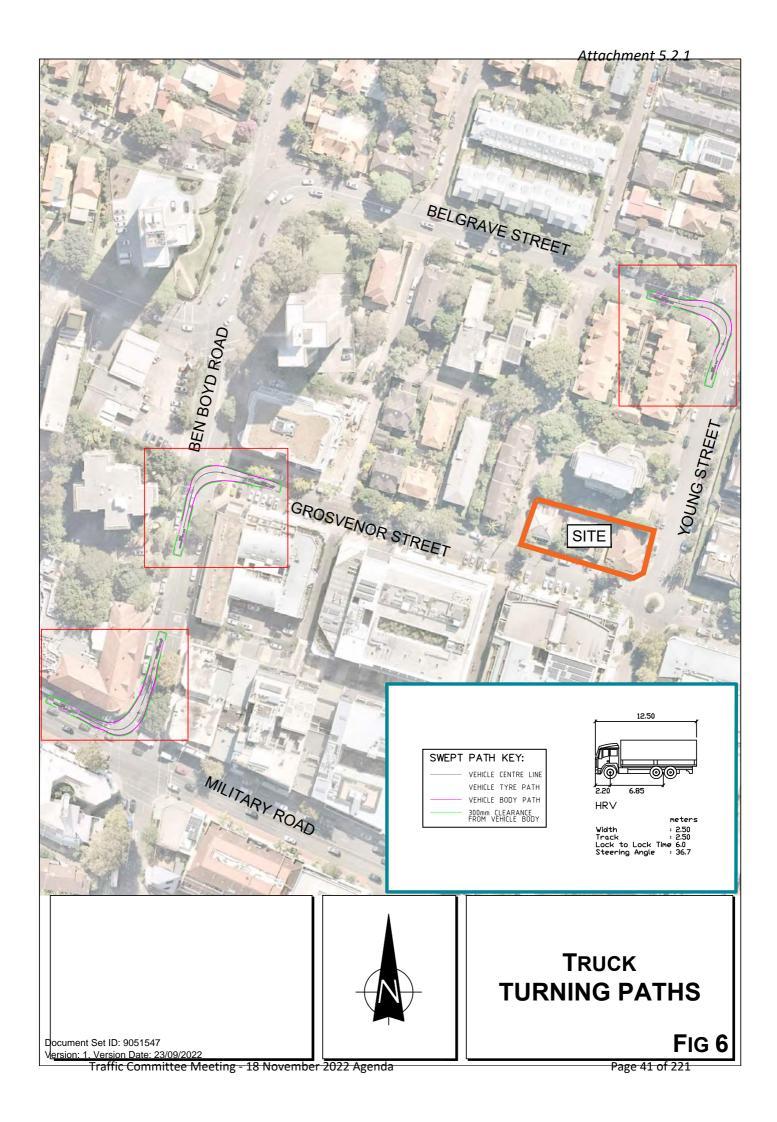
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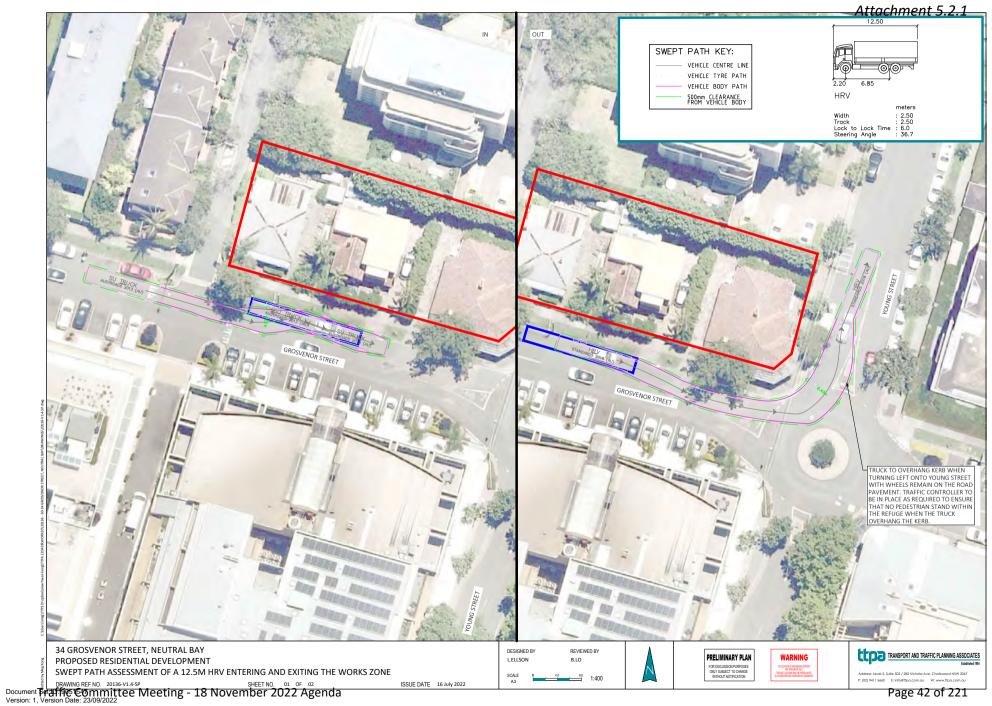
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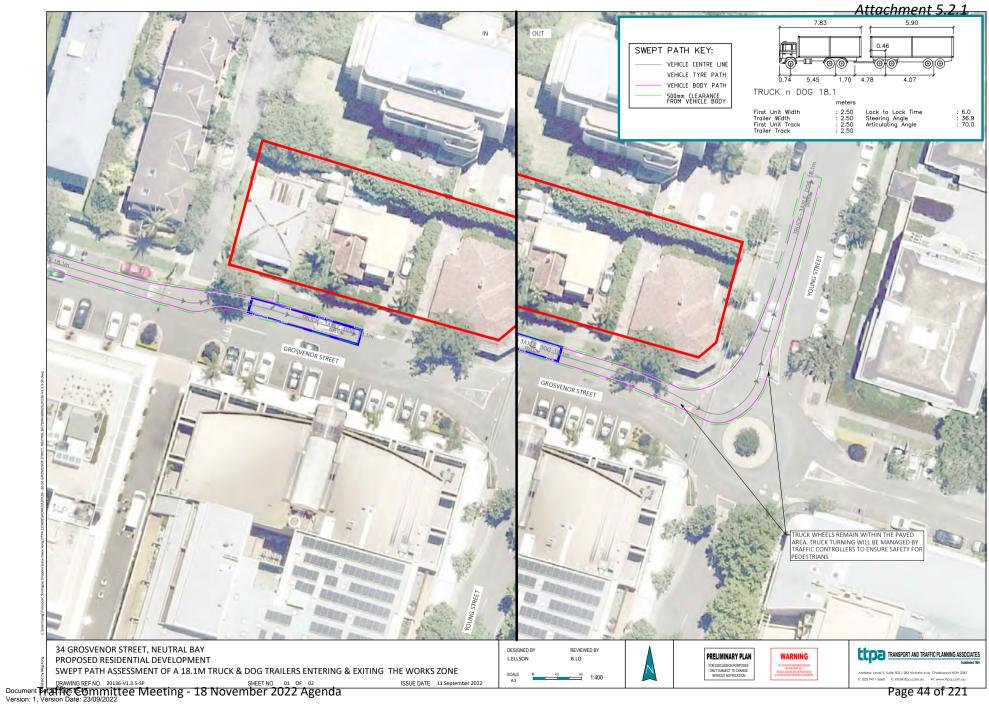
Page 39 of 221



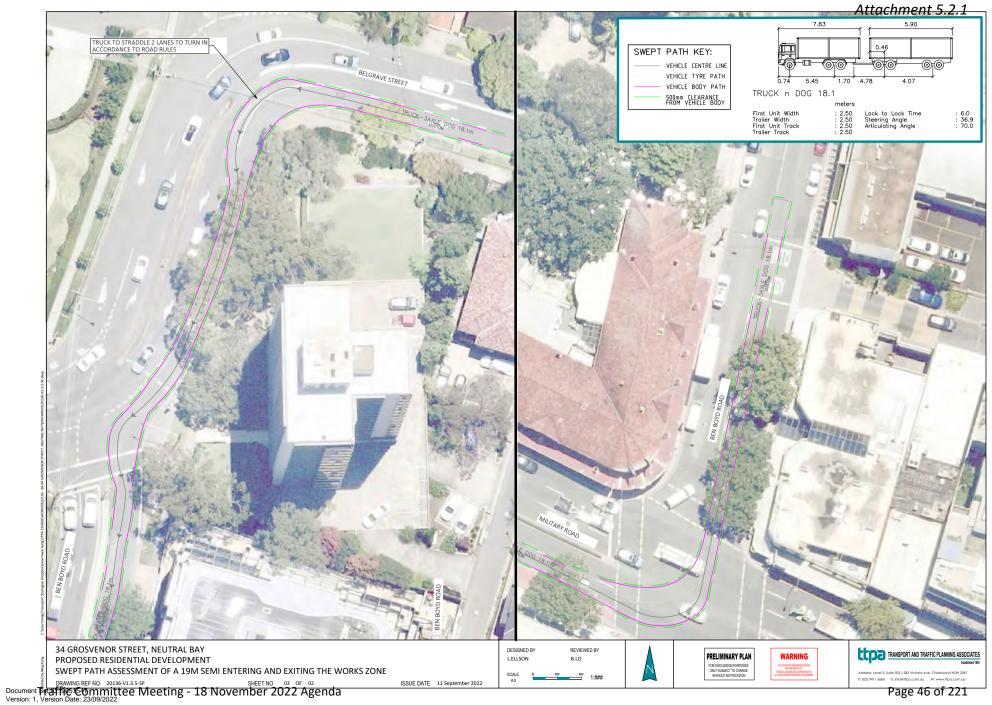


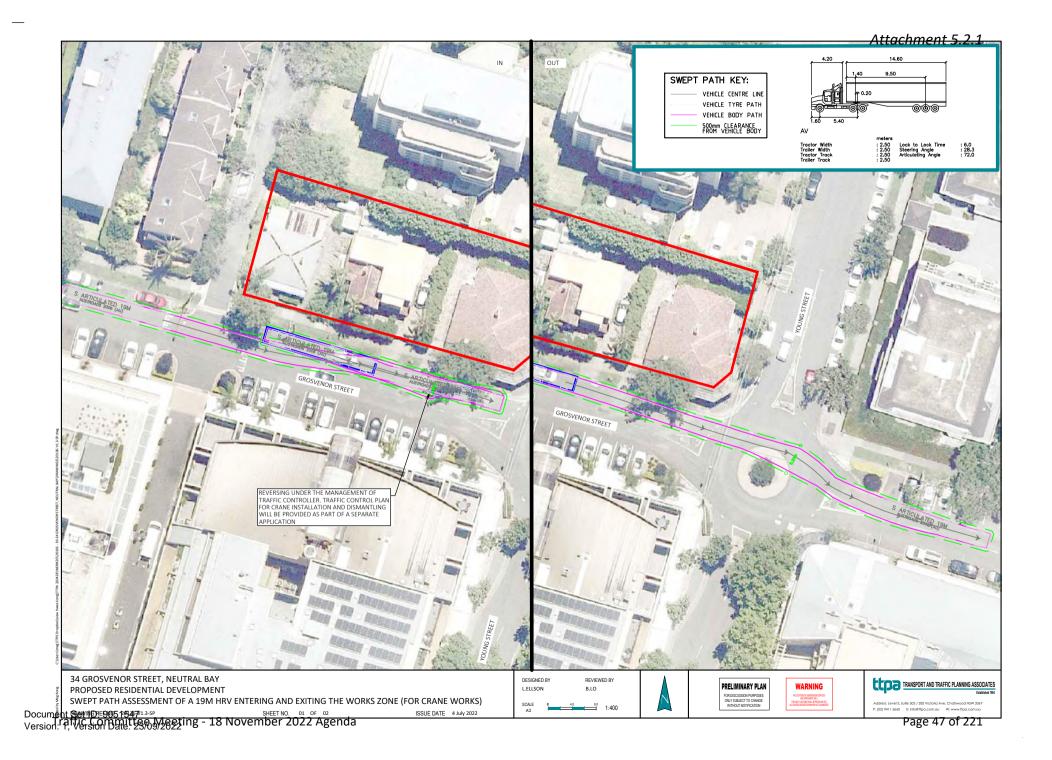


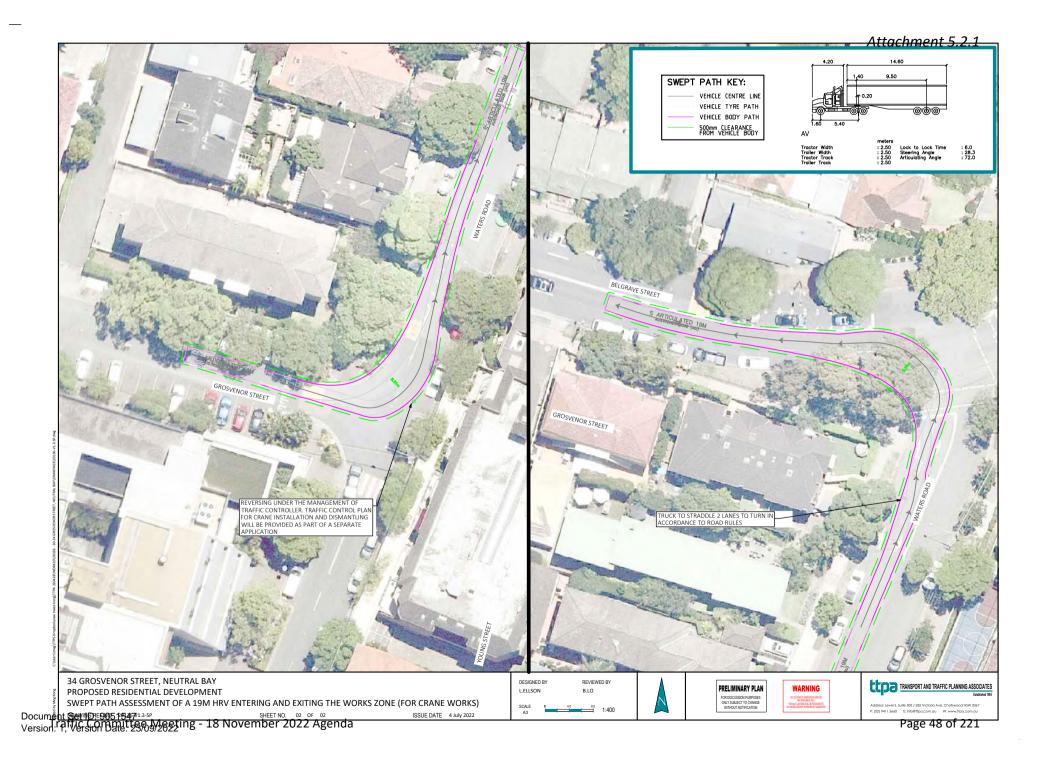


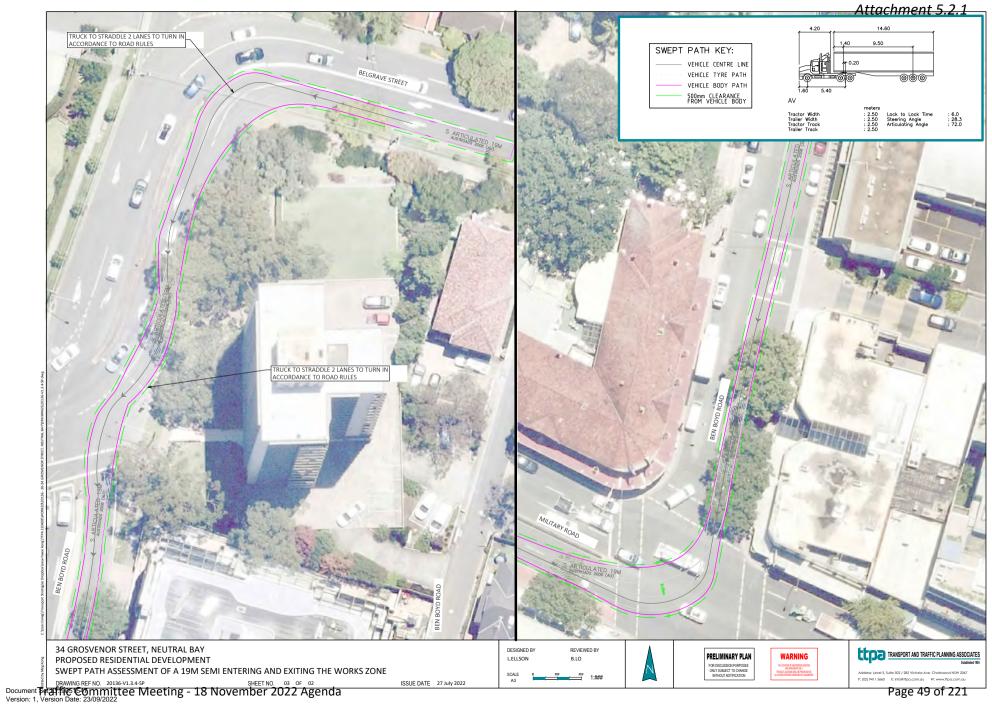












will be no meter removal required as part of the Works Zone application. The works

zone will not be used for private kerbside parking by contractors, tradesman or visitors

to the site.

4.7 Cranage and Materials Handling

1 tower crane will be erected within the site, and specific areas will be available for

loading/unloading, materials handling and storage, and worker sheds, etc. The tower

crane will be utilised for materials handling within the works zone and the on-site

material handling zone.

A separate application for temporary road closure and crane use from the public

property will be submitted to Council for approval as required prior to the installation

of the on-site tower crane.

Light materials will be loaded/unloaded between the works zone using either forklifts

or trolleys.

4.8 Site Induction

All workers and visitors employed on the site by the appointed contractor (including

sub-contractors) will be required to undergo a formal 'site induction' process and all

the inductions will be performed specifically to each trade according to Workcover OH

& S requirements.

The induction will include details of approved access routes to and from the

construction site for site staff and delivery vehicles, parking arrangements, as well as

standard environmental, WHS, driver protocols and emergency procedures. The

agreed work hours must be included as part of this induction.

4.9 Construction Worker Parking

There will be no on-site car parking available for workers during the earlier construction

stage. Once the internal driveway and basement carpark are built (and when

construction activity is most intensive), additional worker parking may be available.

Ref. 20136 18

Some unrestricted on-street parking will be available along the surrounding local

streets for the workers. Given the proximity of the site to high-frequency public

transport services, all workers will be encouraged at all times to utilise the highly

accessible public transport system which exists in the vicinity of the site or to carpool

wherever possible.

A tool drop-off and storage facility will be provided within the site. This would allow

tradespeople to drop-off and store their tools and machinery, allowing them to use public

transport to travel to/ from the site on a daily basis.

Workers will also be informed of appropriate tool/ equipment drop-off and storage

arrangements made within site sheds and amenities provided on-site. Bus and train

schedules will be provided to all workers during site induction to demonstrate

alternative modes of transport available.

4.10 Traffic Guidance Schemes

The TGS presents the principles of traffic management, with the detailed information

for worksite operations is contained in the Roads and Maritime Services Traffic Control

at Work Sites Technical Manual Version 5.0 dated 27 July 2018. The control of traffic

at work sites must be undertaken with reference to WorkCover requirements and

Australex's Constructions Workplace Health and Safety Manuals.

The TGSs prepared by the Traffic Control contractor (a Certified Traffic Controller

under RMS regulations) as required throughout the process and in accordance with

Australian Standards 1742.3, for all construction processes are provided in Appendix

D.

4.11 Tree Protection Management Measures

Australex will complete the construction works without encroaching the tree protection

zones (TPZs). Protective fencing and ground protection will be installed in accordance

with the tree management plan provided overleaf. Australex will ensure that the

Ref. 20136

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existing trees within the TPZs are protected in accordance with the Australian

Standards, based on the following guidelines:

no works will be undertaken without the supervision of a qualified arborist

no people, vehicles or machinery can enter the zone

no stockpiling of building materials, debris or soil within the zone

no fuel, oil dumps or chemicals allowed within or around the zone

no altering of soil levels within the zone

no open trenching within the zone

\* no attachment of wires, nails, screws or any other fixing device or as a winch

support or anchorage

\* supplementary watering is provided to trees through dry periods, during and after

the construction process.

4.12 Construction related Vehicle Movements

A maximum of 30 trucks per day during peak construction. The heavy vehicle

movements are likely to be spread throughout the day. However, in the worst-case

assessment, it has been assumed that 12.5%, or 4 vehicles (8 two-way vehicle

movements), would occur during the peak hour. Queuing or marshalling of

construction vehicles will not be permitted on the road network and call-up procedures

must be put in place to manage arrivals.

Workers typically begin and end their workday outside of network peak periods (i.e.,

6.30 am - 3.30 pm) and as such is unlikely to adversely impact the surrounding road

network.

4.13 Impact on Public Transport Services

The heavy vehicle haulage routes will largely be limited on arterial and sub-arterial roads

which are designed to accommodate heavy vehicle movements. As such, the impacts

on public transport services will be minimal on the approach/departure routes. While the

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truck route will overlap with this bus route during the construction period, it is not

expected that traffic generation of no more than 6 vehicle visitations per day would be

adverse to the efficiency of the existing bus service.

4.14 Impact on Pedestrian Movements

Pedestrian movements will remain on Grosvenor Street, Young Street and Young

Lane, separated from the site through the provision of hoarding along the perimeter of

the site where applicable.

Where the frontage footpath along Grosvenor Street will be affected by the Works

Zone operation, accredited traffic controllers who will be present at the works zone

and access points will ensure pedestrians are given right of way by construction

vehicles to heighten their safety.

The above measures will be incorporated into the site induction program.

Workers/subcontractors will be inducted to drive with extra caution and according to

the posted speed limit at all times.

4.15 Temporary Road Closure

It is not anticipated that the proposed works would require a road closure. If required:

- The costs and application processes for the required permits are to be borne

by Australex.

Temporary road closures shall be confined to weekends and off-peak hour

times and are subject to the approval of the Council.

- Before implementation of any road closure during construction, Council shall

be advised of these changes and a TGS shall be submitted to Council for

approval.

- This TGS shall include times and dates of changes, measures, signage, road

markings and any temporary traffic control measures.

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4.16 Impact on Emergency Vehicle Access

Emergency protocols on the site would include a requirement for an accredited traffic

controller to assist with emergency access, and as such, access to the site by

emergency vehicles will not be affected. The liaison will be maintained with the police

and emergency services agencies throughout the construction period and a site

contact will be made available for out-of-hours emergencies and access.

4.17 Spoil Management

To ensure that soil/excavated material is not transported on wheels or tracks of

vehicles and deposited on surrounding roadways, a wheel wash station will be

positioned at the entry/exit point.

4.18 Road Serviceability

Australex will be responsible for ensuring that the road pavement, kerb and gutter

along Grosvenor Street, Young Street and Young Lane, remain in clean and

serviceable states during the course of the construction.

4.19 Public Notification

Australex would prepare notification letters, under the approval of Council, that would be

delivered to adjoining property owners, to advise of the construction works and

timeframes for completion of each phase of the process.

4.20 Impact on Neighboring Properties

Access to neighbouring properties will be maintained at all times. Workers/

subcontractors will be directed not to park their vehicles at the driveways of the

neighbouring properties. This will be incorporated into the site induction program.

Australex would take appropriate action if informed of this activity occurring.

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# 4.21 Dilapidation Report

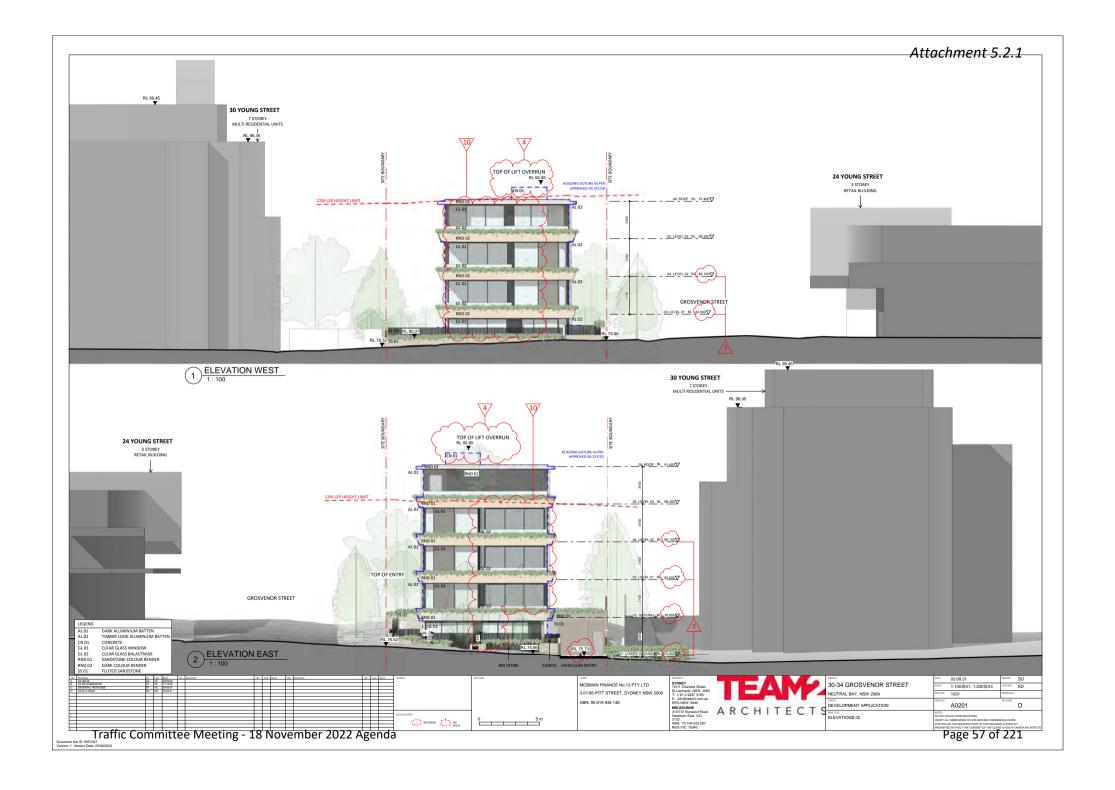
A dilapidation report will be provided before and after the construction activities as required by Council.

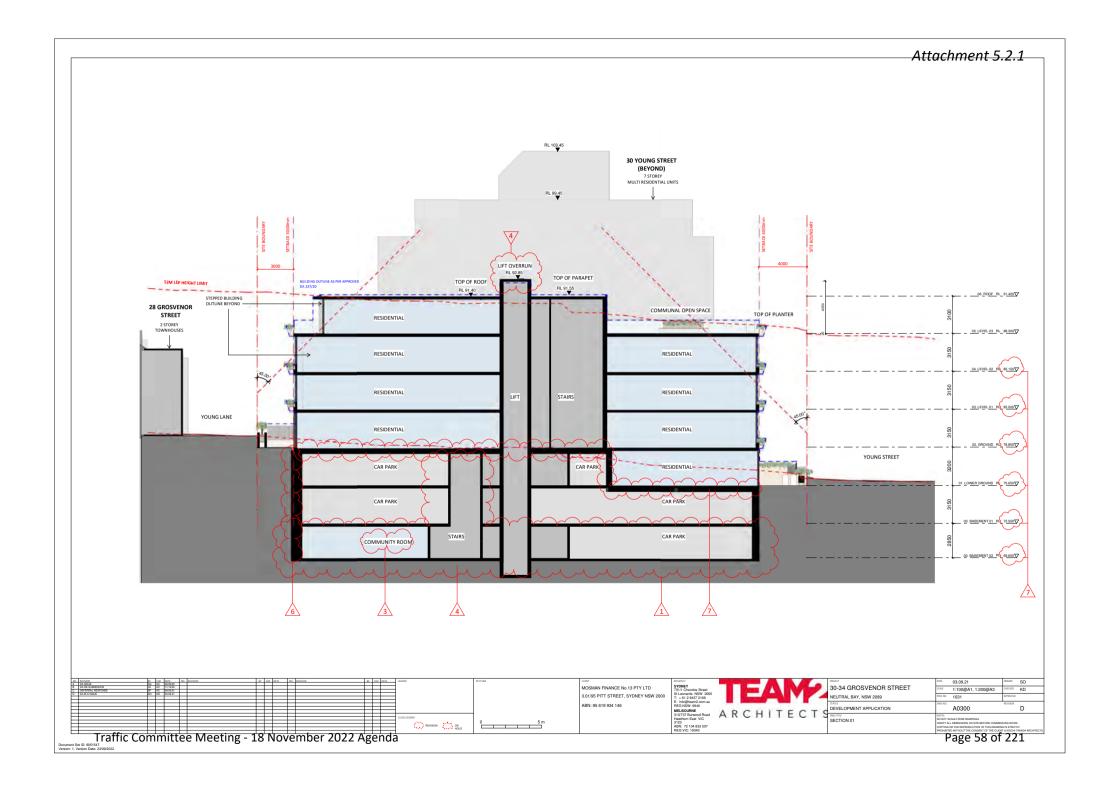
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Appendix A

**Architectural Plans** 







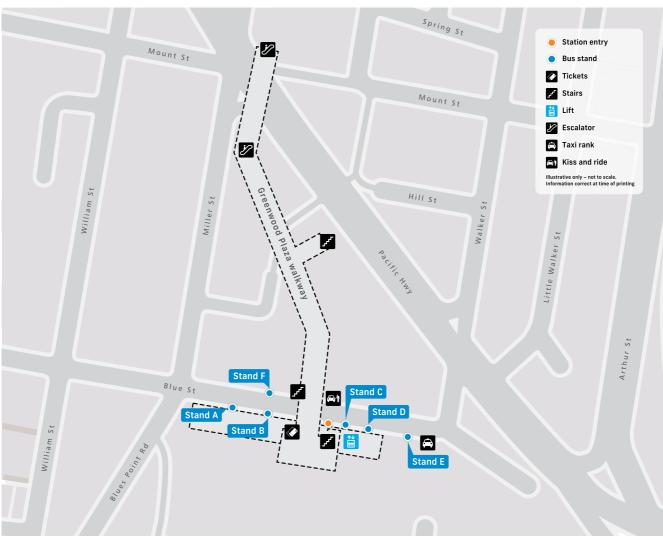


# Appendix B

**Public Transport Provision** 



# North Sydney Station Public Transport Map









Central Coast



Stand A			
Stop no. 206011			
261	Lane Cove		
263	Crows Nest		
343	Chatswood		

Stand B		
Stop no. 206012		
252	Gladesville	
286	Denistone East	
287	Ryde	
290	Epping	
622	Dural	
653	West Pennant Hills	
M20	Gore Hill	

Stand C				
Stop no. 206092				
202	Northbridge	-		
203	Castlecrag			
207	East Lindfield			
208	East Lindfield			
209	East Lindfield			

Stand D		
Stop no. <b>206014</b>		
151	Mona Vale	
168	North Balgowlah	
173	Narraweena	
188	Avalon	
227	Mosman Junction	
228	Clifton Gardens	

229	Beauty Point	Stand F
230	Mosman Wharf	Stop no. <b>206015</b>
245	Balmoral Beach	254 McMahons Point
246	Balmoral Heights	260 Terrey Hills
247	Taronga Zoo	265 Lane Cove
E50	Manly	269 Kirribilli
E54	Mona Vale	

N91 Macquarie Park Arrivals only

N90 Hornsby via Chatswood

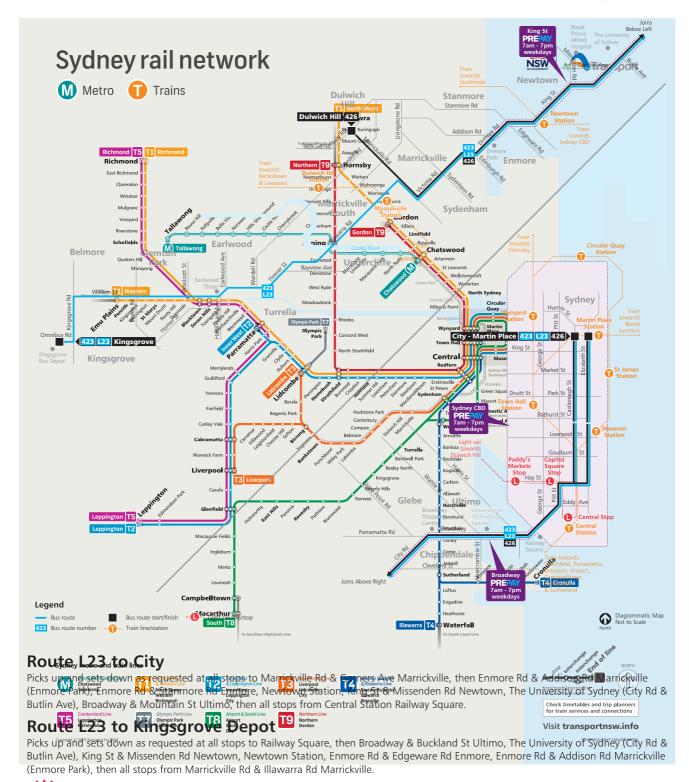
For more information ∫transportnsw.info





## Routes 423, L23, 426



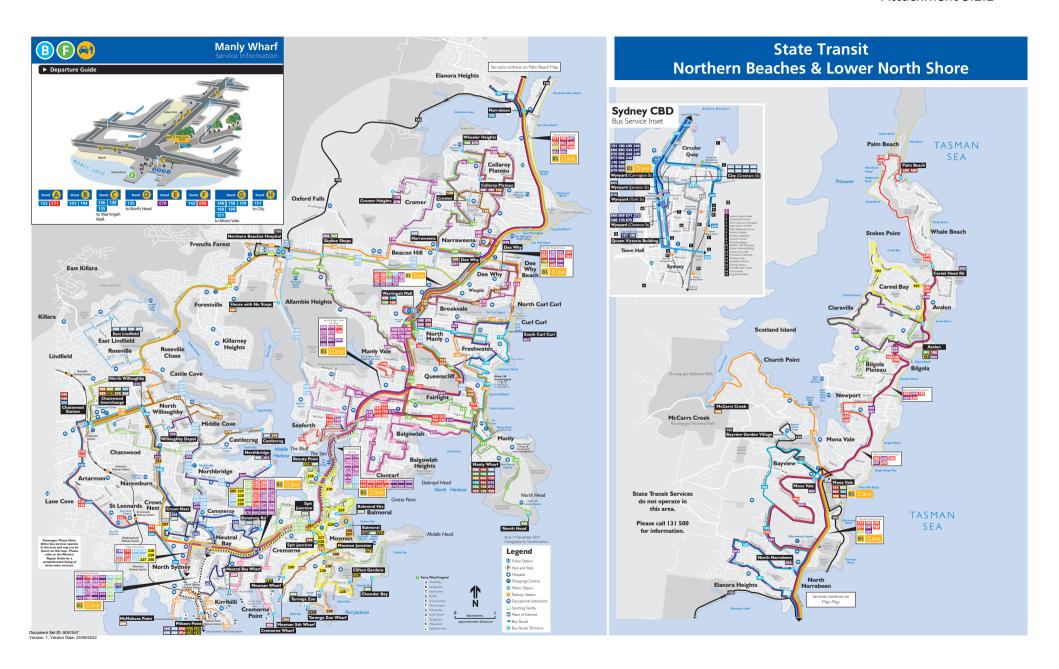


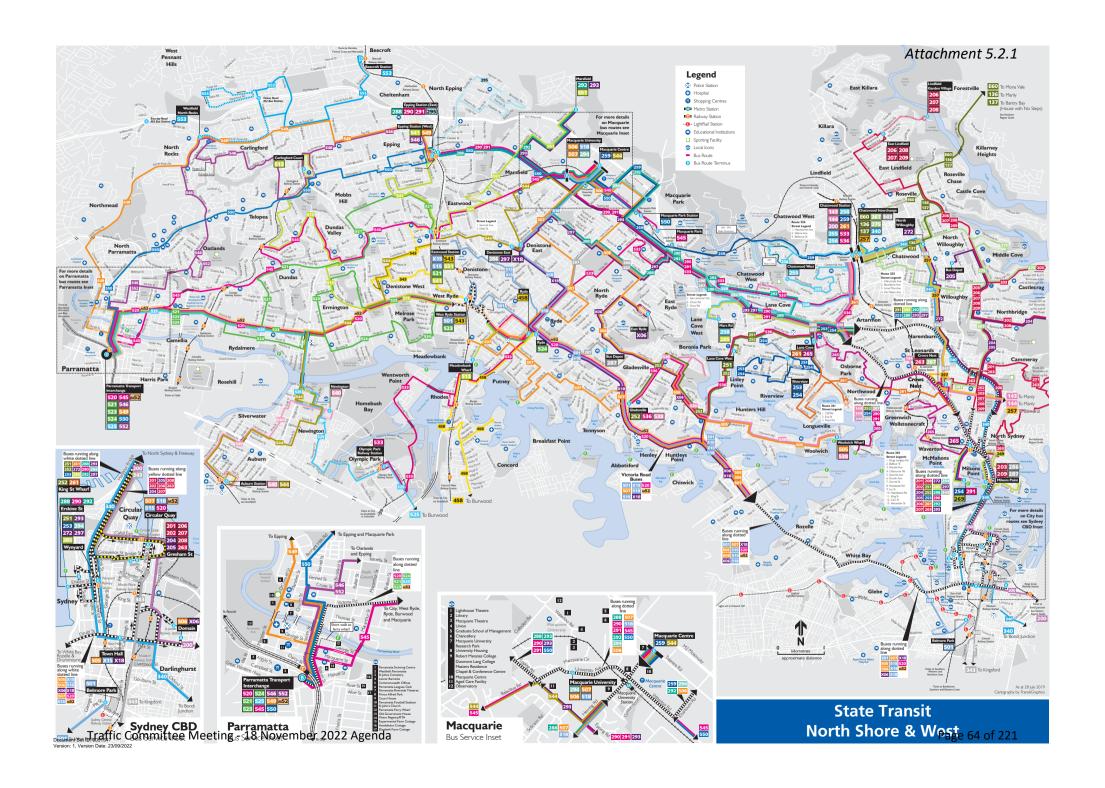


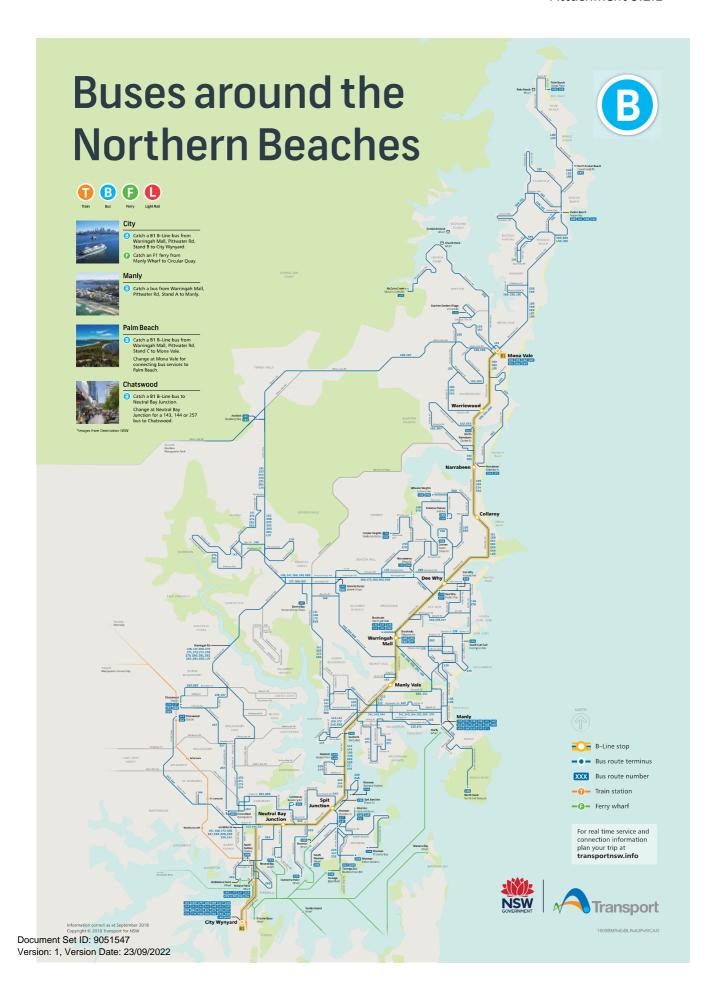


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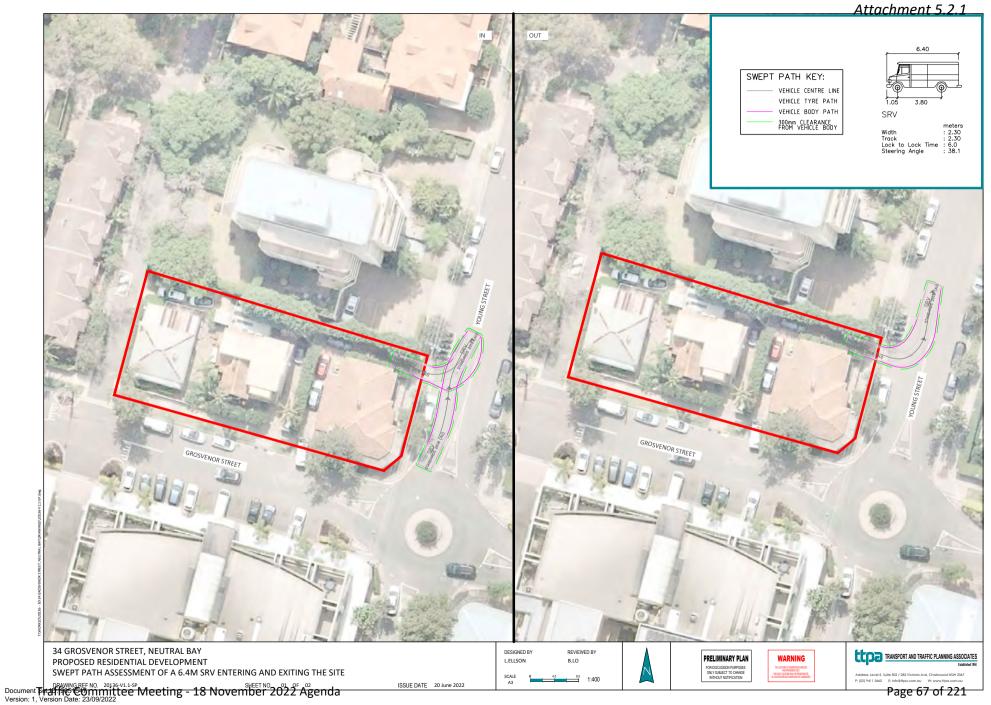


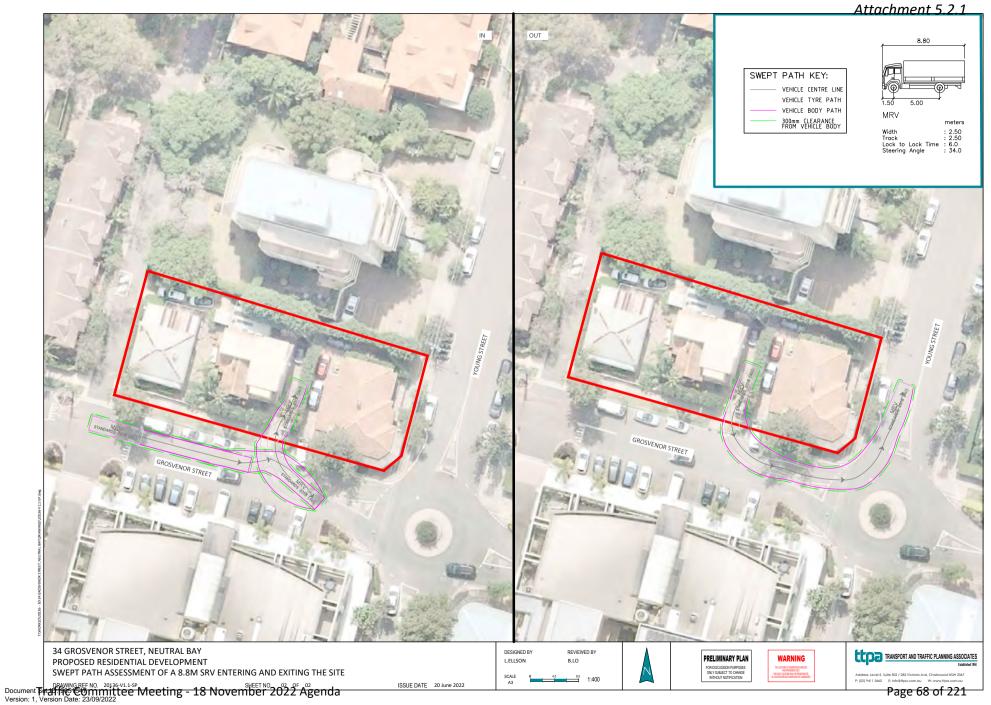


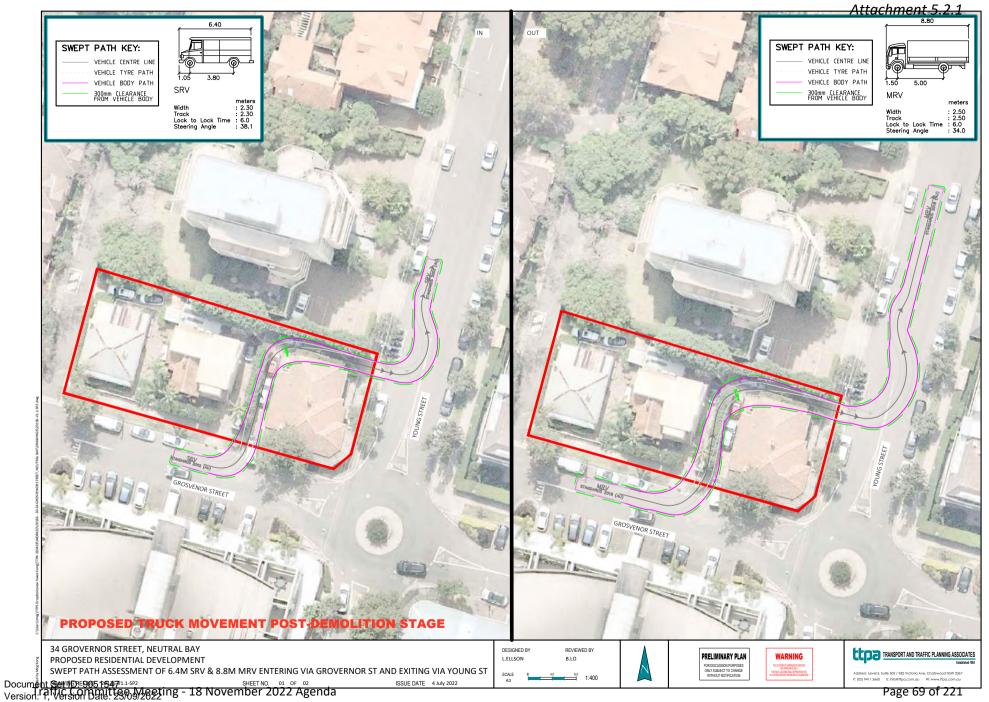
# Appendix C

**Turning Path Assessments** 









# Appendix D

**Traffic Guidance Schemes** 



### NOTES - VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AFFECTED BY TRAFFIC CONTROL MEASURES. - AT ALL TIMES AN ID-TO-DATE COPY OF "TRAFFIC CONTROL MEASURES." - AT ALL TIMES AN ID-TO-DATE COPY OF "TRAFFIC CONTROL AT WORK SITES" SHOULD BE AVAILABLE FOR REFERENCE AND IMPLEMENTATION AS REQUIRED ON-SITE. - ALL WORKERS WILL BE CONFINED TO THE DEDICATED WORKS AREA SHOWN ON THE PLAN. IF THE WORKSITE IS LEFT UNATTENDED IT IS THE CONTRACTOR'S DUTY TO ENSURE THAT THE APPROPRIATE MEASURES ARE TAKEN TO PROVIDE A SARE EWINCOMMENT FOR VEHICLES AND PEDESTRIANS TO RELEVANT AUSTRALIAN STANDARDS. TRAFFIC CONTROLLERS ARE TO BE REQUIRED AT THE ACCESS FULL TIME AND THEY ARE TO BE SUITABLY ACCREDITED TO AUSTRALIAN STANDARDS AND RMS ACCREDITATION AS REQUIRED. WHEN REQUIRED 11-34 AND 11-10 SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS REQUIRED. WHEN REQUIRED 11-34 AND 11-10 SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS REQUIRED. ALL SIGNAGE IS TO BE CLEAR. CLEARLY VISIBLE AND NOT OBSCURED. ALL SIGNAGE IS TO BE CLEAR, CLEARLY VISIBLE AND NOT OBSCURED. ALL NIGHT WORK OR DAYNIGHT MUST USE RMS STANDARD NIGHT SIGNS AND DEVICES UNLESS OTHERWISE STATED. ALL WORKERS MUST ADHERE TO THE APPLICABLE SAFE WORK DISTANCE AS DESCRIBED IN AS1742.3:2009. ALL DISTANCES BETWEEN SIGNS ARE TO BE IN ACCORDANCE WITH SECTION 2.5.2 OF AS1742.3:2009. HOWEVER, MODIFICATIONS CAN BE MADE TO SUIT SITE CONDITIONS. LES NOT ALL DIMENSIONS SHOWN ARE TO SCALE. LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY. ALL SIGNS TO BE MINIMUM SIZE A. ALL SIGNS TO BE MINIMUM SIZE A. ALL SIGNS TO BE CLASS I REFLECTIVE OR DIAMOND GRADE. ALL TRAFFIC CONTROL PLANS ARE TO BE MINIMENTED IN ACCORDANCE WITH THE ROADS AND MARITIME. 9. SERVICES TRAFFIC CONTROL AT WORK SITES TECHNICAL MANUAL VERSIONS 5.0 DATED 27 JULY 2018 AND AUSTRALIAN STANDARDS AS 1724.23209 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 3. TRAFFIC CONTROL DEVICES FOR WORKS ON ROADS. VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO FOR WORKS ON ROADS. THIS TRAFFIC CONTROL PLAN MUST BE SETUP BY A PERSON HOLDING AN "IMPLEMENT TRAFFIC CONTROL PLANS" (YELLOW) TICKET AND THE RMS TRAFFIC CONTROL AT WORK SITES CHECKLIST SHALL BE COMPLETED PRIOR TO IMPLEMENTATION. THE ACCREDITED PERSONNES SHALL IMPLEMENT THE APPROVED TOP BEFORE ANY PHYSICAL WORK COMMENCES AND ENSURE A COPY OF THE TOP IS KEPT ON-SITE. THE ACCREDITED PERSONNEL SHALL IMPLEMENT THE APPROVED TOP SETUP ON-SITE. THE ACCREDITED PERSONNEL SHALL AS O DRIVE THROUGH THE SITE BEFORE WORKS BEGIN TO ENSURE THAT THE TOP HAS BEEN IMPLEMENTED CORRECTLY AND THAT IT WILL WARN, INSTRUCT AND GUIDE ROAD USERS AS DESIGNED. ANY VARIATIONS MADE TO THE PLAN MUST BE MARKED ON THE PLAN MIDITALLED BY THE ACCREDITED PERSONNEL. ACCREDITED PERSONNEL. IT IS THE RESPONSIBILITY OF AN ACCREDITTED PERSONNEL WITH A "PREPARE TRAFFIC MANAGEMENT PLAN" TICKET TO ENSURE THE FOLLOWING: - THE INTEGRITY OF ALL TRAFFIC CONTROL MEASURES THROUGH TO THE FINAL REMOVAL. THIS INCLUDES DAILY CHECKS OF ALL SIGNS AND DEVICES. THE CORRESPONDING RECORDS OF CHECKS SHALL BE KEPT ON FILE FOR AUDITING PURPOSES. TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACTIVITIES DURING VEHICLES ENTERING AND EXITING THE SITE YOUNG 34 GROSVERNOR STREET, NEUTRAL BAY RAFFIC CONTROLLER TO HOLD COUTHBOUND TRAFFIC ON YOUNG STREET TO ALLOW TRUCK TO EXIT THE SITE <u>30m</u> 50m TRAFFIC CONTROLLER TO HOLD NORTHBOUND TRAFFIC ON YOUNG STREET TO ALLOW TRUCK TO EXIT THE GROSVENOR STREET ₩0 <del>7</del> TRAFFIC CONTROLLER TO HOLD EASTBOUND TRAFFIC ON GROSVENOR STREET TO ALLOW TRUCK TO REVERSI INTO THE SITE TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACTIVITIE DURING VEHICLES ENTERING AND EXITING THE SITE STREET YOUNG GROSVENOR LANE CERTIFICATIONS THE UNDERSIGNED HAS COMPLETED AND OBTAINED "PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN" CERTIFICATE NO: 0052125163 (EXPIRY DATE: 28/08/2022) PREPARE A WORK ZONE TMP CARD LACHLAN ELLSON LEGEND: CONSTRUCTION FENCE (WORK SITE BOUNDARY) WORK SITE ACCESS 1 ACCREDITED RMS TRAFFIC CONTROLLER SIGN POST 34 GROSVENOR STREET, NEUTRAL BAY TRAFFIC GUIDANCE SCHEME FINAL PLAN TRANSPORT AND TRAFFIC PLANNING ASSOCIATES SITE ACCESSES (EXISTING DRIVEWAY) ON GROSVENOR STREET AND YOUNG STREET DRAWING REF NO. 20069-01-01 ISSUE DATE 04/07/2022 Established 1994 DESIGNED BY L. ELLSON APPROVED BY M.KONG Address: Suite 502, Level 5, 282 Victoria Avenue, Chatswood NSW 2067 P: (02) 9411 5660 F: (02) 9904 6622 W: www.ttpa.com.au NOT TO SCALE

#### **NOTES**

- NOT ALL DIMENSIONS SHOWN ARE TO SCALE.

  LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY.

  ALL SIGNS TO BE MINIMUM SIZE A.

  ALL SIGNS TO BE CLASS I REFLECTIVE OR DIAMOND GRADE.

- ALL SIGNS TO BE CLASS 1 REFLECTIVE OR DIAMOND GRADE.

  ALL TRAFFIC CONTROL PLANS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE ROADS AND MARITIME
  SERVICES TRAFFIC CONTROL AT WORK SITES TECHNICAL MANUAL VERSION 5.0 DATED 27 JULY 2018 AND AUSTRALIAN
  STANDARDS AS1742.3 2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 3: TRAFFIC CONTROL DEVICES
  FOR WORKS ON ROADS.

  THIS TRAFFIC CONTROL PLAN MUST BE SETUP BY A PERSON HOLDIMG AN "IMPLEMENT TRAFFIC CONTROL
  PLANS" (YELLOW) TICKET AND THE RIMS TRAFFIC CONTROL AT WORK SITES CHECKLIST SHALL BE
  COMPLETED PRIOR TO IMPLEMENTATION.
  THE ACCREDITED PERSONNEL SHALL IMPLEMENT THE APPROVED TOP BEFORE ANY PHYSICAL WORK
  COMMENCES AND ENSURE A COPY OF THE TCP IS KEPT ON SITE. THE ACCREDITED PERSONNEL SHALL
  ALSO DRIVE THROUGH THE SITE BEFORE WORKS BEGIN TO ENSURE THAT THE TCP HAS BEEN
  IMPLEMENTED CORRECTLY AND THAT IT WILL WARN, INSTRUCT AND GUIDE ROAD USERS AS DESIGNED.
  ANY VARIATIONS MADE TO THE PLAN MUST BE MARKED ON THE PLAN AND INITIALLED BY THE

- VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AFFECTED BY TRAFFIC CONTROL MEASURES.

   AT ALL TIMES AN UP-TO-DATE COPY OF "TRAFFIC CONTROL AT WORK SITES" SHOULD BE AVAILABLE FOR REFERENCE AND IMPLEMENTATION AS REQUIRED ON-SITE.

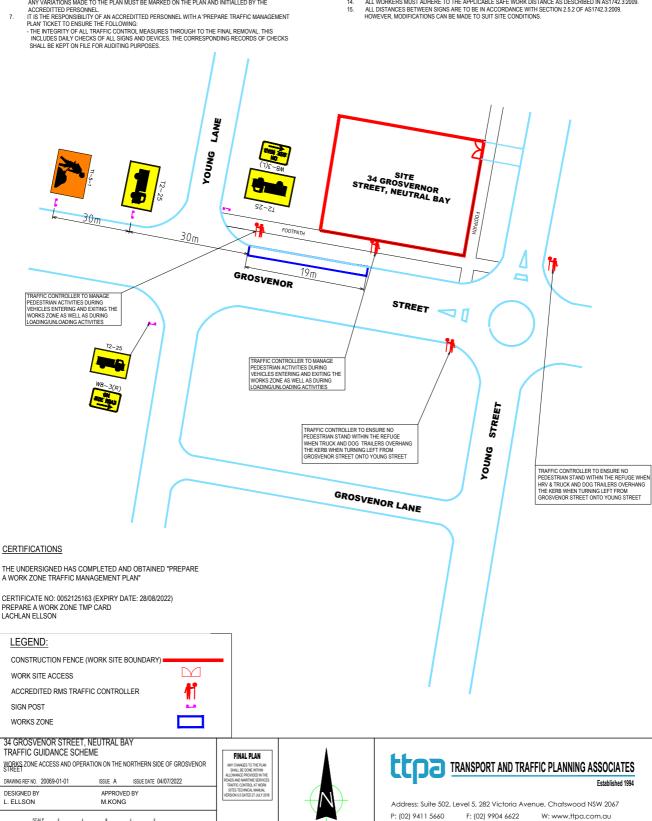
  ALL WORKERS WILL BE CONFINED TO THE DEDICATED WORKS AREA SHOWN ON THE PLAN. IF THE WORKSITES IS LEFT UNATIENDED IT IS THE CONTRACTORS DUTY TO ENSURE THAT THE APPROPRIATE MEASURES ARE TAKEN TO PROVIDE A SAFE ENVIRONMENT FOR VEHICLES AND PEDESTRIANS TO RELEVANT AUSTRALIAN STANDARDS. TRAFFIC CONTROLLERS ARE TO BE REQUIRED AT THE ACCESS FULL TIME AND THEY ARE TO BE SUITABLY ACCREDITED TO AUSTRALIAN STANDARDS AND RMS ACCREDITATION AS REQUIRED. WHEN PEQUIRED 1.134 AND THI-D SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS ACCREDITATION AS REQUIRED. WHEN PEQUIRED 1.134 AND THI-D SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS REQUIRED. ALL SIGNAS OF DESCRIPTION OF AUSTRALIAN STANDARDS AND RMS REQUIRED. ALL SIGNAS OF DESCRIPTION OF AUSTRALIAN STANDARDS AND THE SET OF BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND THIS RECOVERED. ALL SIGNAS TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT ON SITE.

  ALL SIGNAS TO BE COVERED OR REMOVED WHEN WORKERS ARE NOT ON SITE.

  ALL SIGNAS THAT AND A STANDARD SHAD RAY STANDARD SHORT SITAND AND DEVICES UNLESS OTHERWISE STATED.

  ALL DISTANCES BETYLED SIGNS ARE TO BE IN ACCORDANCE WITH SECTION 2.5.2 OF AST74.2.3.2009.

- ALL DISTANCES BETWEEN SIGNS ARE TO BE IN ACCORDANCE WITH SECTION 2.5.2 OF AS1742.3:2009. HOWEVER, MODIFICATIONS CAN BE MADE TO SUIT SITE CONDITIONS.



\*\*\* REPRINT \*\*\*

Attachment 5.2.1

TAX INVOICE/RECEIPT
ABN #:32353260317
North Sydney Council
200 Miller Street
NORTH SYDNEY NSW 2060
Ph 9936 8100 Fax \*9936 8177
Email: council@northsydney.nsw.gov.au
Web:

Date 23/09/2022 13:06
Receipt 02799658:0001 Terminal 5:4327
Grosvenor Development Co Pty Ltd

Details Amount

Const Traffic Manage 1500.00 023.2022.00000086.001 Merchant Service Fee 11.25 (GST 1.02) Invoice/Receipt Total: 1511.25

Total Non-Taxable: 1500.00
Total Taxable: 10.23
Total GST Payable: 1.02
Total Value 1511.25
Tendered

Credit 1511.25 Change 0.00

ÿР¿

34 Grosvenor Street, Neutral Bay - Truck and Dog Trailers - CTMP Conditions

### **CONDITIONS OF APPROVAL**

#### Works on Road Reserve

- 1. All works on any public road are to be undertaken in accordance with AS 1742.3.
- 2. All Traffic Management Plans and Traffic Control Plans must be endorsed with the name of the person preparing the plan along with their level of certified qualification and certificate number. Only persons with current "Select/Modify Traffic Control Plans" or "Design Audit Traffic Control Plans" tickets are qualified to develop and endorse Traffic Management Plans and Traffic Control Plans.
- 3. Any Traffic Control Plans (TCP) prepared are to comply with AS1742.3 and Transport for NSW "Traffic Control at Worksites" manual V6 (2020) and be signed by a person with RMS certification to prepare TCP's. A copy of the TCP is to be held on site at all times by the responsible traffic controllers.
- 4. Provision of RMS accredited traffic controllers is required to assist truck and pedestrian movements.
- 5. A minimum of two RMS accredited traffic controllers are to be provided to direct entering and exiting vehicles in Grosvenor Street and Young Street at the entry/exit to the works zone whilst ensuring no pedestrians or vehicles enter the zone of heavy vehicle movement.
- 6. At no time shall Grosvenor Street or any other road be blocked by any vehicle or works associated with the construction of the proposed development. Through traffic is to be maintained at all times.
- 7. Grosvenor Street, Young Street or any other road are <u>not</u> to be used as a waiting/queuing area for trucks delivering to or awaiting pick up of materials etc. from the proposed development.
- 8. Materials are to be stored on-site. At no time, are materials to be stored on any public road or any Council property.
- 9. Tower cranes shall be located wholly on-site.
- 10. Parking Bays and any other on-street parking areas are not to be barricaded.
- 11. As far as possible, the provision of an on-site parking area for employees, tradesperson and construction vehicles be provided.
- 12. Provide an onsite tool drop-off area for the workers to encourage the use of the public transport when travelling to the site.
- 13. The applicant/builder is responsible for covering the full cost of any damages caused to Council signs, parking meters and any other infrastructure within the road reserve as a result of building works.

#### **Construction Vehicles**

- 14. The maximum size of delivery and construction vehicles must not exceed 18.1m long Truck and Dog and unless demonstrated by adequate swept path analysis and authorised by Council's Traffic Engineer.
- 15. The maximum size of construction vehicles (just for tower crane installation/dismantling) to be used for the subject site must not exceed 19m in length.
- 16. The proposed 19m (crane installation/dismantling) truck route passes through the "School Zone" in Waters Road, no construction vehicle movements are to occur during school drop-off (8.00am to 9.30am) and pick up (2.30pm to 4.00pm) times on school days.

34 Grosvenor Street, Neutral Bay - Truck and Dog Trailers - CTMP Conditions

- 17. Any oversize and over-mass vehicles other than the approved 12.5m HRV and 19m truck stated in conditions 14 and 15 are not allowed to travel on Local Road unless approval for a one-off occasion is obtained from North Sydney Council's traffic section.
- 18. The applicant/builder shall liaise with 12-14 Waters Road, Neutral Bay site regarding the vehicle movement for the proposed 19m truck and the future road closure.
- 19. Any oversize and over-mass vehicles are not allowed to travel on Local Road unless approval for a one-off occasion is obtained from North Sydney Council's traffic section.
- 20. Reverse movement out of the site is not permitted under any circumstances.
- 21. A traffic route map and conditions are to be made available to truck drivers engaged for this development.
- 22. A list of truck drivers' names with their licences and vehicle plate numbers and conditions are to be kept on-site by the undersigned at all times, and be made available for inspection by Council Officers, Police Officers, and Council Rangers.
- 23. No construction vehicle movements are to occur during school drop-off (8.00am to 9.30am) and pick up (2.30pm to 4.00pm) times on school days, if the trucks pass through "School Zone" in both approach to the site and/or departure from the site.

#### **Vehicular Access**

- 24. Approval must be obtained from Council for all temporary construction vehicular crossings.
- 25. Construction vehicular crossings must be adequate to accommodate all vehicle ingress and egress. The proposed construction vehicle access via the existing driveway must be widened to accommodate the approved truck size.
- 26. Barricades and signs are to be provided in accordance with Australian Standards.
- 27. Appropriate advanced signage to warn drivers about changes in road conditions is required.
- 28. Access must be maintained for emergency vehicles at all times.

### **Work Zone**

- 29. Prior to the installation of the Works Zone signs, the applicant/builder must pay the appropriate fees and acknowledge acceptance of these conditions of approval, in writing.
- 30. The applicant/builder must notify NSC if the Works Zone is required to be extended with at least 2 weeks written notice prior to the expiry date. It's the undersigned's responsibility to pay for the Works Zone lease fee if the Works Zone signs remain.
- 31. The minimum Works Zone extension period is 4 weeks unless otherwise approved by Council's Traffic Section.
- 32. The applicant/builder must give North Sydney Council (NSC) at least 2 weeks written notice if they wish to suspend the Works Zone. NSC may, at its sole discretion, allow for the suspension of the Works Zone subject to certain conditions. (Note: Generally, a Works Zone suspension will not be allowed if the suspension period is less than 4 weeks). The undersigned will not be required to pay the lease fees for any period of Works Zone suspension.
- 33. The applicant/builder must give NSC at least 2 weeks written notice if the Works Zone is no longer required. The applicant/builder must notify NSC's Traffic Operations Officer at <a href="mailto:Engineering@northsydney.nsw.gov.au">Engineering@northsydney.nsw.gov.au</a> for the Works Zone to be removed.
- 34. Council will not assess or issue any further permits for the site if any fees associated with the Works Zone are outstanding.

- 34 Grosvenor Street, Neutral Bay Truck and Dog Trailers CTMP Conditions
- 35. Repeated failure to comply with any of these conditions will result in removal of any Work Zone under notice.
- 36. Any approved Work Zone is to be used only to pick up and drop off materials and equipment. Construction vehicles are not to wait or park in the Works Zone, Truck Zone and Loading Zone.

### Community

- 37. Access to adjoining residents and businesses are to be maintained at all times.
- 38. The residents/occupiers of Grosvenor Street and Young Street are to be notified by letter that if a Work Zone 7am to 5pm Monday to Friday, 8am to 1pm Saturday is to be installed. The letter should indicate the length of the Work Zone, the existing parking restrictions the Work Zone will replace and the duration of the Work Zone. A copy of the notification is to be provided to Council before the signs are installed. The notification is to include the name and number of the site manager in case of complaints.
- 39. The adjoining residents and businesses are to be updated monthly and at key construction stages, particularly in relation to construction vehicle movements, and be provided with a phone number to contact the site manager.

#### **Permits**

- 40. If a Permit to Stand Plant is required, application must be made to Council in accordance with Council's Stand Plant Permit Form and Conditions.
- 41. If a Permit to Stand Plant or Temporary Road Closure is required, application must be made to NSW Police, North Shore Local Area command.
- 42. If a Temporary Road Closure is required, application must be made to Council in accordance with Council's Temporary Road Closure Form and Conditions.
- 43. Mobile cranes shall be located wholly on-site or with an approved Stand Plant Permit.
- 44. Concrete pumps shall be located wholly on-site or with an approved Stand Plant Permit, unless the pump and trucks can stand wholly within the signposted Work Zone and do not protrude further than 2.5 metres from the face of kerb.
- 45. Installation of any Hoarding is subject to the applicant paying all appropriate Council advertised fees and charges, including the cost of the signage, and is subject to separate approval from the North Sydney Council.

### **Pedestrian Safety**

- 46. Pedestrian access on Grosvenor Street or any other roads must be maintained at all times.
- 47. Pedestrian access and the diversion of pedestrians shall be carried out in accordance with Australian Standard 1742.3 and 1742.10.
- 48. If pedestrians are diverted, pram ramps must be provided in accordance with Australian Standard 1428.1.
- 49. All pump lines crossing Council footpaths must be ramped over to allow safe pedestrian/ wheelchair traffic at all times.

### Other

50. A "pre-construction commencement" meeting with Council's Permit and Work Zone officers can be organised, in order to establish the initial communication, review of the WZ and Permit processes and the chance to ask questions. The applicant must give NSC

34 Grosvenor Street, Neutral Bay – Truck and Dog Trailers - CTMP Conditions

traffic section at least 2 weeks' written notice if the applicant wishes to proceed to a preconstruction meeting with Council's traffic section.

Please note the construction management program is a condition that forms part of the development application for the site. Therefore, any non-compliance with these construction management program conditions of approval constitutes a breach of the conditions of approval for the development application.

NB: Please note that additional changes cannot be added once the matter is approved by the Traffic Committee. Any such requests for changes, an updated CTMP is required to be submitted to NSC for review and this request, submitted to the Traffic Committee for approval.



Mr Adam Arias Plaza Building Australia Square Level 5, 95 Pitt Street SYDNEY NSW 2000

adam@platformpps.com.au

31 August 2022

Dear Mr Arias,

200 Miller Street, North Sydney, NSW 2060 | ABN 32 353 260 317

All correspondence PO Box 12, North Sydney, NSW 2059

P (02) 9936 8100 | E council@northsydney.nsw.gov.au

W www.northsydney.nsw.gov.au

### RE: 34 GROSVENOR STREET (30-34 GROSVENOR STREET) - CONSTRUCTION TRAFFIC MANAGEMENT PLAN

I refer to the Construction Traffic Management Plan dated July 2022 prepared by TTPA for the approved development (237/20) at 34 Grosvenor Street.

This matter was considered by Council's Traffic and Transport Engineer and the following recommendation was made:

**THAT** the traffic aspects of the Construction Traffic Management Plan (Issue E) dated July 2022 prepared by TTPA of the approved development (Development Consent 237/20) at 30-34 Grosvenor Street, Neutral Bay be approved subject to the conditions of approval.

This recommendation was forwarded to Transport for NSW (TfNSW), the NSW Police and the local State Member as members of the North Sydney Traffic Committee and subsequently received no objection subject to applicant meeting conditions of approval.

Additionally, Transport for NSW (TfNSW), Greater Sydney Division has reviewed the CTMP and endorse the proposed temporary construction arrangements, subject to the following comments:

"Transport for NSW (TfNSW), Greater Sydney Division has reviewed the CTMP and endorse the proposed temporary construction arrangements.

Endorsement of the CTMP is not an approval to the type of traffic management or delineation devices used, nor is it an approval to any traffic guidance schemes depicted within the CTMP. It is assumed that the proponent has used type approved devices and has developed its traffic guidance schemes in accordance with the relevant Australian Standards and Guidelines.

The proponent is to ensure local residents, businesses, schools and other stakeholders in the affected area as well as emergency service organisations are notified of the changes associated with the CTMP, prior to its implementation.



The proponent is to address any issues raised by Council, STA, Taxi Council, residents/businesses or Emergency Services in the TMP approval process; and address the requirements arising as an outcome of the Local Traffic Committee meeting.

Please ensure this CTMP is shared and adhered to by all contractors. If the CTMP changes, please forward a copy to <a href="Developments.CJP@transport.nsw.gov.au">Developments.CJP@transport.nsw.gov.au</a> or further review and endorsement."

Please find attached the conditions of approval from Council. Please note the construction management program is a condition that forms part of the development application for the site. Therefore, any non-compliance with these construction management program conditions of approval constitutes a breach of the conditions of approval for the development application.

Should you have any enquiries regarding this matter, please contact me on 9936 8266.

Yours Sincerely,

Lizzie Cheng

**TRAFFIC & TRANSPORT ENGINEER** 

### **CONDITIONS OF APPROVAL FOR**

34 Grosvenor Street (30-34 Grosvenor Street), Neutral Bay

### **Works on Road Reserve**

- 1. All works on any public road are to be undertaken in accordance with AS 1742.3.
- 2. All Traffic Management Plans and Traffic Control Plans must be endorsed with the name of the person preparing the plan along with their level of certified qualification and certificate number. Only persons with current "Select/Modify Traffic Control Plans" or "Design Audit Traffic Control Plans" tickets are qualified to develop and endorse Traffic Management Plans and Traffic Control Plans.
- 3. Any Traffic Control Plans (TCP) prepared are to comply with AS1742.3 and Transport for NSW "Traffic Control at Worksites" manual V6 (2020) and be signed by a person with RMS certification to prepare TCP's. A copy of the TCP is to be held on site at all times by the responsible traffic controllers.
- 4. Provision of RMS accredited traffic controllers is required to assist truck and pedestrian movements.
- 5. A minimum of two RMS accredited traffic controllers are to be provided at each vehicular crossing point to direct entering and exiting vehicles in Grosvenor Street and Young Street at the entry/exit to the works zone/vehicular crossing whilst ensuring no pedestrians or vehicles enter the zone of heavy vehicle movement.
- At no time shall Grosvenor Street and Young Street or any other road be blocked by any vehicle or works associated with the construction of the proposed development. Through traffic is to be maintained at all times.
- 7. Grosvenor Street and Young Street or any other road are <u>not</u> to be used as a waiting/queuing area for trucks delivering to or awaiting pick up of materials etc. from the proposed development.
- 8. Materials are to be stored on-site. At no time, are materials to be stored on any public road or any Council property.
- 9. Tower cranes shall be located wholly on-site.
- 10. Parking Bays and any other on-street parking areas are not to be barricaded.
- 11. As far as possible, the provision of an on-site parking area for employees, tradesperson and construction vehicles be provided.
- 12. The applicant/ builder is responsible for covering the full cost of any damages caused to Council signs, parking meters and any other infrastructure within the road reserve as a result of building works.

#### **Construction Vehicles**

- 13. No truck and dog trailers are to be used for the site.
- 14. The maximum size of construction vehicles to be used for the subject site must not exceed a heavy rigid vehicle (HRV) of 12.5m in length, unless demonstrated by adequate swept path analysis and authorised by Council's Traffic Engineer.
- 15. The **maximum size** of construction vehicles (just for tower crane installation/dismantling) to be used for the subject site must not exceed **19m** in length.
- 16. Any oversize and over-mass vehicles other than the approved 12.5m HRV and 19m truck stated in conditions 14 and 15 are not allowed to travel on Local Road unless approval for a one-off occasion is obtained from North Sydney Council's traffic section.
- 17. Reverse movement out of the site is not permitted under any circumstances.

### Page 3 of 5

- 18. A traffic route map and conditions are to be made available to truck drivers engaged for this development.
- 19. A list of truck drivers' names with their licences and vehicle plate numbers and conditions are to be kept on-site by the undersigned at all times, and be made available for inspection by Council Officers, Police Officers, and Council Rangers.
- 20. The proposed 19m (crane installation/dismantling) truck route passes through the "School Zone" in Waters Road, no construction vehicle movements are to occur during school drop-off (8.00am to 9.30am) and pick up (2.30pm to 4.00pm) times on school days.
- 21. The proposed 8.8m (SRV) trucks must exit the site via Ernest Street at all times.
- 22. The proposed trucks that are greater than 8.8m (SRV) **must not** exit the site via Ben Boyd Road/Military Road intersection during peak traffic hours 7.30am to 9.30am, 2.30pm to 5.00pm Mon Fri; and 10am 1pm Sat, but can use Ernest Street to exit.
- 23. The proposed haulage route is going through a section of Ernest Street with a 10t load limit, therefore, a **pavement dilapidation** survey/report before and after construction is required to be submitted.
- 24. A **dilapidation report** before/ after construction for the roundabout and associated refuge islands and signs at the intersection of Grosvenor Street and Young Street is required to be submitted.
- 25. The applicant/builder shall liaise with 12-14 Waters Road, Neutral Bay site regarding the vehicle movement for the proposed 19m truck and the future road closure.

#### **Vehicular Access**

- 26. Approval must be obtained from Council for all temporary construction vehicular crossings.
- 27. Construction vehicular crossings must be adequate to accommodate all vehicle ingress and egress. The proposed construction vehicle access via the existing driveway must be widened to accommodate the approved truck size.
- 28. Barricades and signs are to be provided in accordance with Australian Standards.
- 29. Appropriate advanced signage to warn drivers about changes in road conditions is required.
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### Community

- 31. Access to adjoining residents and businesses are to be maintained at all times.
- 32. The adjoining residents and businesses are to be updated monthly and at key construction stages, particularly in relation to construction vehicle movements, and be provided with a phone number to contact the site manager.

#### **Permits**

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- 36. Mobile cranes shall be located wholly on-site or with an approved Stand Plant Permit.

- 37. Concrete pumps shall be located wholly on-site or with an approved Stand Plant Permit, unless the pump and trucks can stand wholly within the signposted Work Zone and do not protrude further than 2.5 metres from the face of kerb.
- 38. Installation of any Hoarding is subject to the applicant paying all appropriate Council advertised fees and charges, including the cost of the signage, and is subject to separate approval from the North Sydney Council.

### **Pedestrian Safety**

- 39. Pedestrian access on Grosvenor Street and Young Street or any other roads must be maintained at all times.
- 40. Pedestrian access and the diversion of pedestrians shall be carried out in accordance with Australian Standard 1742.3 and 1742.10.
- 41. If pedestrians are diverted, pram ramps must be provided in accordance with Australian Standard 1428.1.
- 42. All pump lines crossing Council footpaths must be ramped over to allow safe pedestrian/ wheelchair traffic at all times.

#### **Others**

43. A meeting with the Council's permit and work zone officers before the construction activity starts can be arranged in order to establish the initial communication and the chance to ask questions. The applicant must give NSC traffic section at least 2 weeks' written notice if the applicant wishes to proceed to a pre-construction meeting with Council's traffic section.

Please note the construction management program is a condition that forms part of the development application for the site. Therefore, any non-compliance with these construction management program conditions of approval constitutes a breach of the conditions of approval for the development application.

### TRAFFIC DELEGATION REQUEST - TDA 22/068 Mr D Osborne, Transport fNSW To: David.Osborne@transport.nsw.gov.au Sgt R Edwards, NSW Police nspactraf@police.nsw.gov.au Cc: Willoughby Electorate Office willoughby@parliament.nsw.gov.au 200 Miller Street 28.7.22 North Sydney NSW 2060 Date: DX 10587 North Sydney Telephone: 9936 8100 Pages: 55 Facsimile: 9936 8177 Email: council@northsydney.nsw.gov.au Sender: Lizzie Cheng, Traffic & Transport All correspondence to: Engineer General Manager engineering@northsydney.nsw.gov.au Telephone: 02 9936 8266 North Sydney Council PO Box 12, North Sydney NSW 2059 30-34 Grosvenor St, Neutral Bay – Construction Traffic Management Request: Request From: Adam Arias, Platform Project Services (ECM 8981081) **Traffic Engineer's Recommendation:** THAT the traffic aspects of the Construction Traffic Management Plan (Issue E) dated July 2022 prepared by TTPA of the approved development (Development Consent 237/20) at 30-34 Grosvenor Street, Neutral Bay be approved subject to the conditions of approval. THAT the 19m long Works Zone on Grosvenor Street as described in this CTMP is approved under delegated authority of Council's Traffic Engineer, with the same conditions pending lodgement of a Work Zone application and payment of all applicable fees. Subject to no objection being received, I intend to approve this recommendation under Delegated Authority. It would be appreciated if you could respond within 10 days. Lizzie Cheng **Traffic & Transport Engineer** ☐ Transport for NSW Object Do Not Object Police Local Area (North Shore Area Command) Local Member Authorised Officer: ......

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(Signature)

(Position)

(Print Name)

### **CONDITIONS OF APPROVAL FOR**

30-34 Grosvenor Street, Neutral Bay

### **Works on Road Reserve**

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### Others

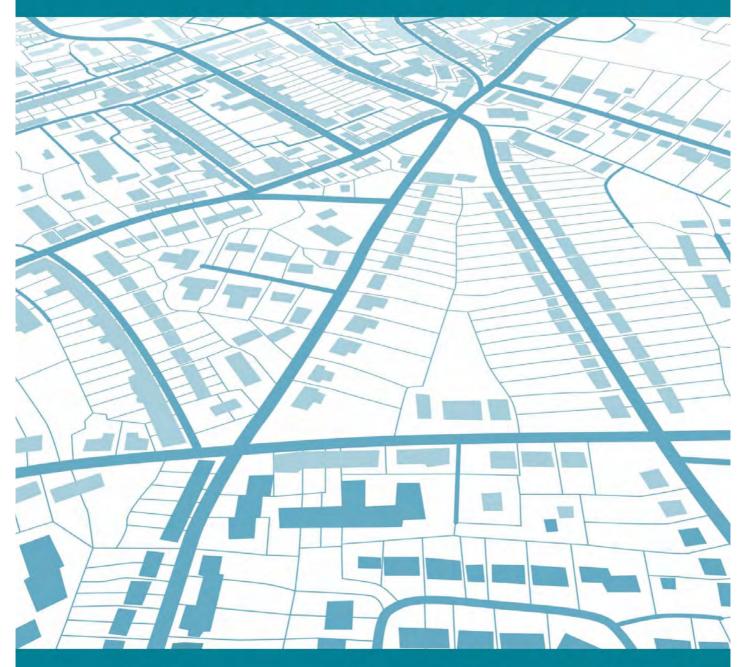
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# TRANSPORT AND TRAFFIC PLANNING ASSOCIATES Established 1994

Suite 502, Level 5, 282 Victoria Avenue T (02) 9411 5660 | F (02) 9904 6622 E info@ttpa.com.au | ttpa.com.au



# 34 Grosvenor Street, Neutral Bay

**Proposed Residential Development** 

**Construction and Traffic Management Plan** 

Ref: 20136 July 2022 Date:

Issue:

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1.0 Introduction

This Construction Traffic Management Plan (CTMP) has been prepared for the

approved residential development on 34 Grosvenor Street, Neutral Bay (Figure 1).

The popular Lower North Shore area is continuing to experience a continuation of the

transformation and redevelopment of underutilised buildings in recent years. This

process has been heightened as a result of the frequent/high-capacity bus services

(including the B-Line service), which provided improved public transport accessibility.

Due to its convenient location in the nearby supermarket, restaurant and entertainment

facilities within the Neutral Bay Local Centre, the site presents an ideal opportunity to

develop a residential apartment complex.

The approved development scheme comprises 9 residential apartments with lower-

ground and basement carpark.

This CTMP has been prepared by an engineer who holds the Roads and Maritime

Services Prepare a Work Zone Traffic Management Plan accreditation, detailed as

follows:

Lachlan Ellson

Certificate No: 0052125163

Expiry Date: 28/08/2022

The CTMP has also been reviewed and checked by a suitably qualified and

experienced civil (traffic) engineer, Meg Kong, with 15 years of professional

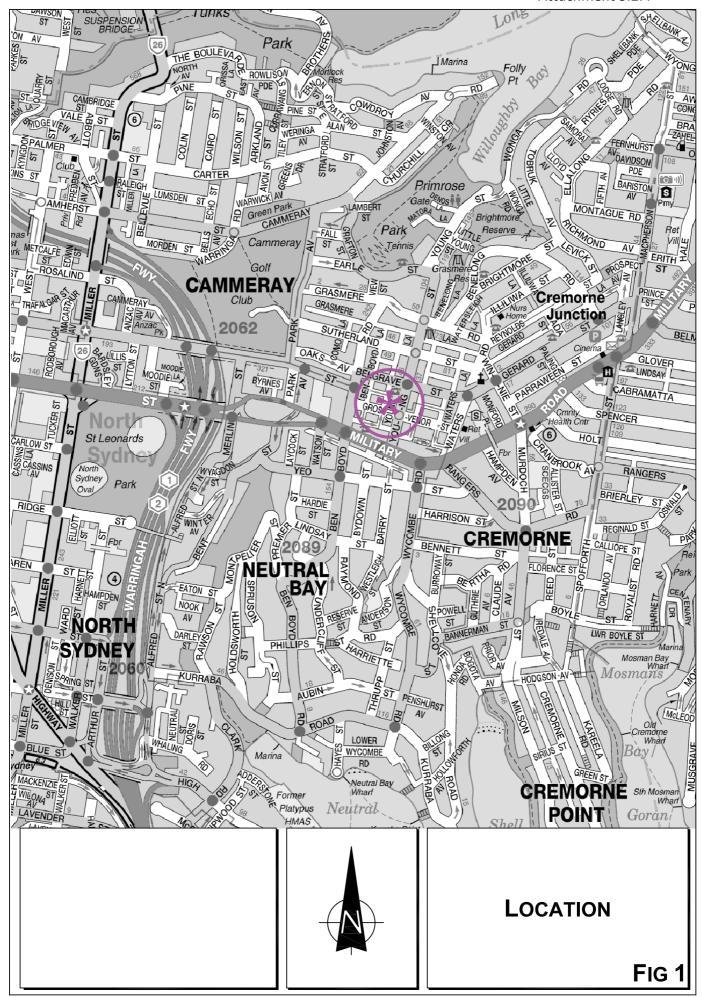
experience. Meg has completed CTMP for more than 200 sites in Sydney, including

the North Sydney Council area.

1 Ref. 20136

Traffic Committee Meeting - 18 November 2022 Agenda

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# 2.0 Approved development Scheme

### 2.1 Site, Context and Existing Circumstances

The site (Figure 2) is a consolidation of 3 lots (Lots A, B and C of DP 341243) occupying a rectangular-shaped total area of 839.3m² at 34 Grosvenor Street in Neutral Bay. The site, with frontages of 18m to Young Lane and Young Street as well as a 46m frontage to Grosvenor Street, is located just to the north of Grosvenor Street between Young Lane and Young Street. The Neutral Bay Local Centre extends to the south along Military Road.

The surrounding uses comprise:

- the adjoining low and medium residential developments to the north, east and west
- the mixed-use extending along the southern side of Grosvenor Street and Military Road.

The site is currently occupied by:

- 30 Grosvenor Street: a relationship health service provider known as "The Family Systems Institute"
- 32 and 34 Grosvenor Street: 2 single dwelling houses.

Accesses to these properties are provided as follows:

- 30 Grosvenor Street: a driveway on Young Lane
- 32 Grosvenor Street: a driveway on Grosvenor Street
- 34 Grosvenor Street: a driveway on Grosvenor Street and another driveway on Young Street.

Ref. 20136 2



Traffic Committee Meeting - 18 November 2022 Agenda

# 2.2 Approved Development

The approved development includes the demolition of all existing structures on-site and undertakes an excavation to provide a level-platform for a 4-storey apartment building and lower-ground and basement carpark.

The proposed new building complex comprises:

1 x One-Bed apartment

1 x Two-Bed apartments

7 x Three Bed apartments

**Total of 9 apartments** 

The 2-level carpark parking facility which can accommodate up to 15 spaces, will be accessed via a single two-way driveway on Young Street:

Details are provided on the plans prepared by Koichi Takada Architects are reproduced in part in Appendix A.

### 2.3 Construction Program

A process has been established for completion of the various work processes within 16 months with tentative commencement date of June 2022.

### 2.4 Construction Process

### **Demolition**

Demolition of existing building elements will be in the initial phase of the construction process, with this activity being preceded by the erection of an A and B-Class perimeter hoarding. The number of workers on the site at any one time will be 5 - 7 persons. The transport of demolition material will generally be undertaken by a single unit type of up to 8.8m medium rigid vehicle (MRV). Up to MRVs will access the site via the existing driveways on Grosvenor Street and stand within the site. When the onsite structures have been demolished and the site is cleared, the trucks will enter via

Grosvenor Street and exit via Young Street.

There will be no on-site parking for construction workers. All workers will be encouraged to use public transport to access the site given the site's proximity to high-frequency public transport services or carpool wherever possible.

A tool drop-off and storage facility will be provided within the site. This would allow tradespeople to drop-off and store their tools and machinery, allowing them to use public transport to travel to/ from the site on a daily basis. Workers will also be informed of with appropriate tool/ equipment drop-off and storage arrangements made within site sheds and amenities provided on-site. Bus and train schedules will be provided to all workers during site induction to demonstrate alternative modes of transport available.

#### **Excavation**

The number of workers on-site will remain at some 5 - 7 persons. The transport of excavated material during this process will be undertaken by up to an 8.8m medium rigid vehicle (MRV).

During the early excavation stage, construction vehicles associated with the excavation process will continue to enter via the existing driveway on Grosvenor Street and exit via Young Street. All trucks will stand wholly within the site.

At a latter excavation stage, the construction vehicles will rely on a 19m long works zone during the approved construction hours. The works zone will be located on the northern side of Grosvenor Street to the west of the Grosvenor Street driveway and can accommodate up to 19m semi. A separate application for the works zone would be submitted as required for approval from Council prior to the implementation of the works zone.

3 on-street parking spaces on the northern side of Grosvenor Street would have to be temporarily removed during the construction for the works zone provision. These parking spaces are currently used by the buildings (including Alouette Child Care on 3 Grosvenor Street) which will be demolished.

As such, the temporary loss of 3 parking spaces would present a negligible impact to the existing on-street parking conditions.

### **Construction and Fitout**

The construction and fitout phase will be the process of longest duration and at peak, activity involved in the order of 15 - 20 persons on the site any one time, with more visitations during concrete pours.

During construction, vehicle access for this process will be via works zone. The provision for loading/unloading for this process will involve up to 19m semi standing within the works zone, with all materials be unloaded and stored within site.

The new parking spaces will be available for workers during the fitout process. This process will only involve small, infrequent deliveries which can occur in the areas adjacent to the new building with access through the new driveway on Young Street.

### **Crane Installation/Dismantling**

It is noted that a 19m semi will only be used for the erection/dismantling of the tower crane. The contractor will submit a separate permit to stand plant/road closure application to Council for approval.

Ref. 20136 5

# 3.0 Road Network and Traffic Conditions

### 3.1 Road Network

The existing road network serving the site (Figure 3) comprises:

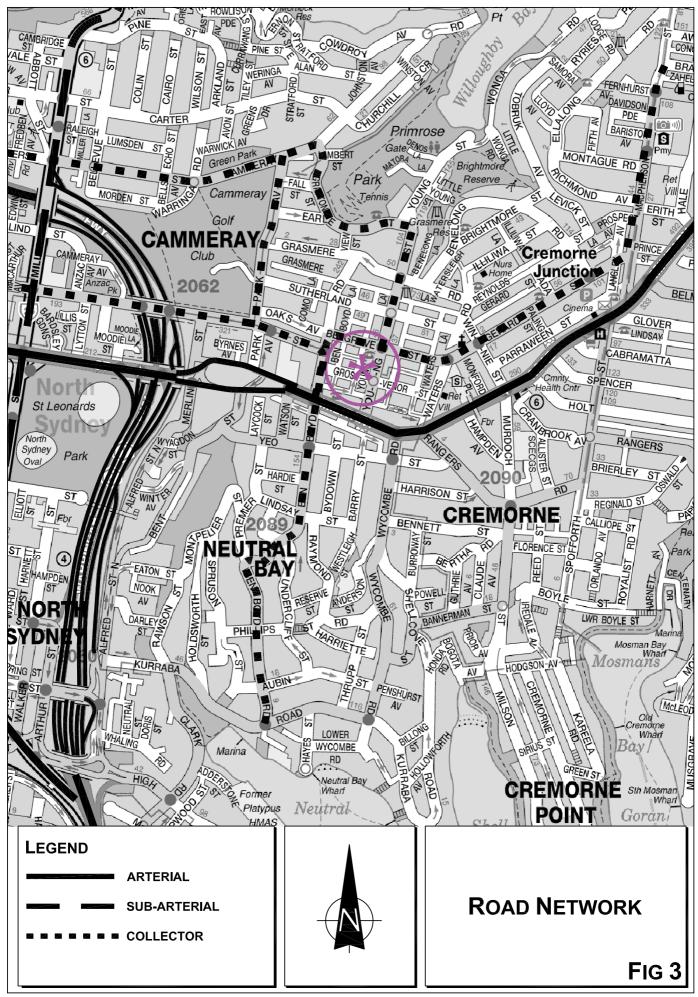
- Gore Hill / Warringah Freeway a State Road (MR 651) and an arterial route connecting between Gore Hill Freeway in Naremburn in the north and Lavender Street in North Sydney to the south. The road generally runs in a north-south direction and has 3 lanes of traffic in each direction with a line marked divided carriageway.
- Military Road a State Highway (HW 10) and arterial route linking the Warringah Freeway at North Sydney in the south to Newcastle Freeway at Ourimbah Interchange in the north. The road generally runs in a north-south direction and has three lanes (including 1 T3 lane) of traffic in each direction.
- Young Lane a local, unclassified laneway that is primarily used to provide rear vehicular and pedestrian access to properties fronting Young Lane.
- Grosvenor Street a local access road that traverses in an east-west direction connecting Ben Boyd Road and Waters Road.
- ❖ Young Street a minor collector road that traverses in a north-south direction connecting Military Road and Young Street-Earle Street.

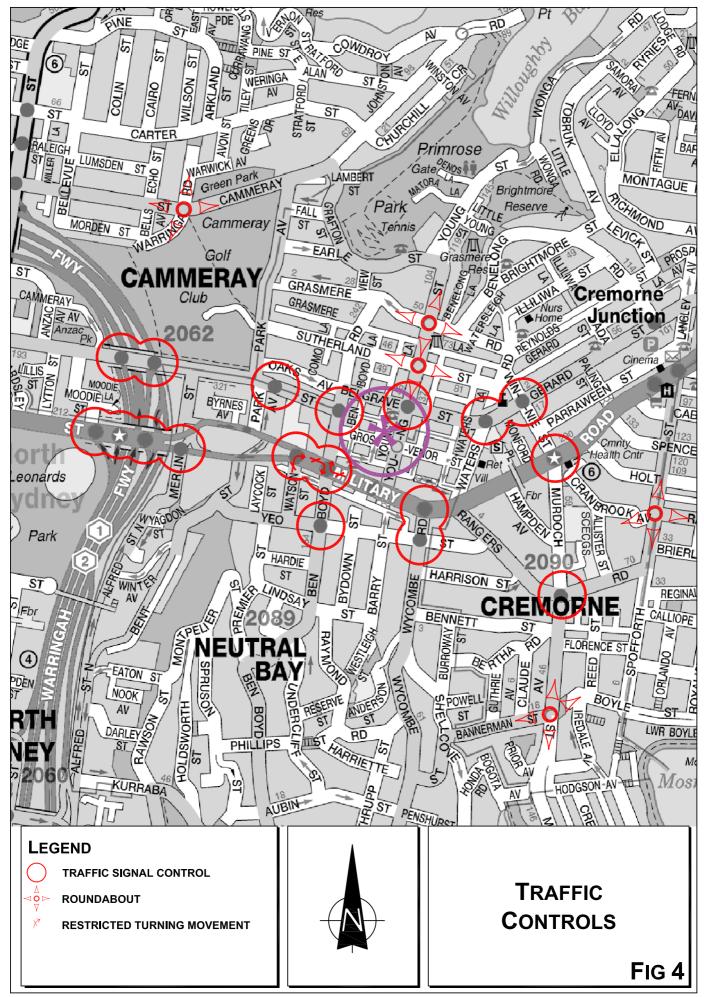
Young Street has a straight and level alignment along the site's frontage. It has a carriageway width of 12.5m with a single lane of traffic in each direction and kerbside parking on both sides of the road.

### 3.2 Traffic Controls

The existing traffic controls in the vicinity of the site (Figure 4) comprise:

the traffic signal-controlled intersections along:





- the Military Road including the Ben Boyd Road, Wycombe Road and Waters Road-Rangers Road, Watson Street-Falcon Street intersections
- the Ben Boyd Road/ Ernest Street, Young Street/Belgrave Street and Belgrave Street-Gerard Street/Waters Road intersections
- a signalised pedestrian crossing in Military Road, just west of Young Street
- the numerous NO RIGHT TURN restrictions along Military Road including the No right-turn eastbound and westbound restrictions in Military Road turning onto Ben Boyd Road
- a central median island in Military Road, which restricts right-turn movements into and out of Young Street.
- the roundabout at the Young Street/Grosvenor Street intersection
- ½P restrictions along both sides of Military Road. Clearway restrictions operate between 6:00 am and 10:00 am and 3:00 pm and 7:00 pm, Monday to Friday.
- No Parking restrictions along both sides of Young Lane
- ½P restrictions along the northern side of Grosvenor Street along the site's frontage between 8:30 am and 6:00 pm (Monday through Friday) and between 8:30 am and 4:00 pm, Saturday. These restrictions do not apply to permit holders of Area 27.
- 2P restrictions along both sides of Young Street along the site's frontage between 8:30 am and 6:00 pm (Monday through Friday) and between 8:30 am and 12:30 pm, Saturday. These restrictions do not apply to permit holders of Area 27.
- No Stopping zone on the western side of Young Street between 4:30 pm and
   6:30 pm (Monday through Friday)
- a posted speed limit of 80kph on Gore Hill / Warringah Freeway
- a posted speed limit of 60kph on Military Road

a posted speed limit of 50kph on all local roads including Grosvenor Street,
 Young Street and Young Lane

### 3.3 Traffic Conditions

An indication of the existing traffic conditions on the road network in the vicinity of the site is provided by the data published by the Roads and Maritime Services (RMS), which is expressed in terms of Annual Average Daily Traffic (AADT). The most recently published data is as follows:

**AADT** 

Military Road, West of Melrose Street, Mosman

46,497

Observations of traffic activity in the vicinity of the development site during the morning peak period reveal some queuing occurs at times along Young Street and Grosvenor Street due to the traffic congestion through the Neutral Bay Local Centre. Much of the congestion at the intersections along these roads are influenced by the major signalised intersections along Military Road at the Ben Boyd Road, Wycombe Road and Waters Road-Rangers Road, Watson Street-Falcon Street intersections

Access/circulation on the road system is facilitated by the various priority–controlled, roundabout and signal-controlled facilities.

Ample gaps are available in the Young Street traffic flow for vehicles to ingress and egress the site.

### 3.4 Existing Transport Services

The site is highly accessible by public transport.

### **Bus Services**

Access to the Metropolitan Transport Network for the site is currently provided by the more than 40 bus services which run along the Military Road (with the nearest bus stop 150m walking distance southeast of the site).

These services provide express bus services to the Central Sydney CBD and connections to North Sydney and St Leonards Railway Stations, Chatswood Interchange, allow access to the wider public transport network with this railway/Metro station providing services on the T1 – North Shore Line and the CCN – Central Coast - Newcastle Line and Sydney Metro, providing a connection to the City and the wider rail network.

These services also provide connections to the Ferry Services on Sydney Harbour at Neutral Bay and Cremorne Point wharves, Northern Beaches area, including Manly Vale, Brookvale, Dee Why, Narrabeen, Newport, Mona Vale and Palm Beach, Kirribilli, Cammeray and Crows Nest.

Bus services into and out of the City via the Warringah Freeway have the benefit of dedicated bus lanes for the majority of the journey, resulting in reduced travel times between Neutral Bay and Wynyard. The site is therefore considered to be very well served by public transport services. These bus routes provide frequent services during the weekday peak hour periods. Details of the bus services available are provided in Appendix B

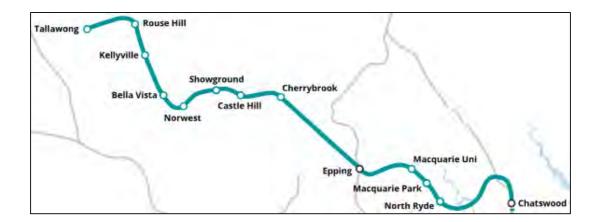
### **Railway Services**

North Sydney Railway Station is located approximately 1.8km southwest of the site and is accessible by bus routes 229 and 230. The station is a major hub in the Sydney Trains network, with frequent services on four rail lines, namely T1 – North Shore Line and the CCN – Central Coast and Newcastle Line. Details of the train services available at the North Sydney Station are provided in Appendix B

### **Metro Services**

The Sydney Metro Northwest project is one of Australia's largest public transport infrastructure projects and currently delivers faster, safer and more reliable service to the northwest region of Sydney. The Sydney Metro Northwest provides a rail connection from the existing Chatswood Interchange through to Cudgegong Railway Station. As part of this connection, the train line passes through Chatswood Station, which provides an additional train every four minutes during the weekday AM and PM peak periods. The

station locations and rail alignment of the Sydney Metro are shown below. Details of the Metro services available at the Chatswood Station are provided in Appendix B.



### **Pedestrian Infrastructure**

Pedestrian footpaths are located on both sides of all streets surrounding the site. Marked foot crossings are provided at all signalised intersections within the area, including along Falcon Street, West Street and Miller Street.

### **Cycle Infrastructure**

The site is well situated within Sydney's cycle network with cycle routes surrounding the site with the nearest route along Military Road to the south of the site. The bicycle network surrounding the site is shown in the figure below, with details provided in figure overleaf.



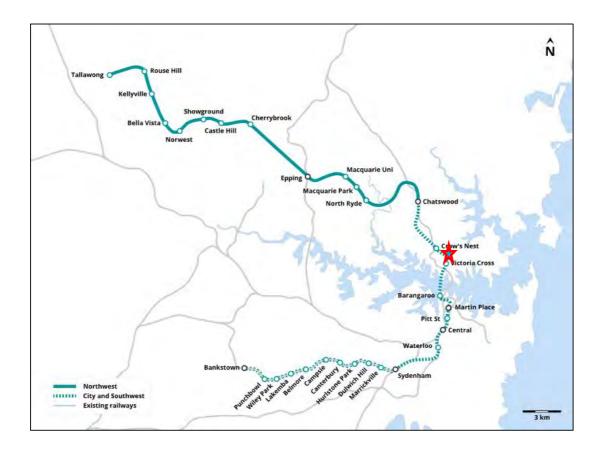


### 3.5 Proposed Transport Services

The site is located within 2km of Crows Nest Metro Station, which is currently under construction as part of the Metro City and Southwest Line. After completion in 2024, this station will provide metro trains every four minutes during peak hours and connect the area to Sydney Central Business District, Northwest Sydney and Southwest Sydney.

The site is expected to benefit greatly from the Sydney Metro project, given the increased incentives to travel by train on the regular fast service with the Neutral Bay town centre planning, largely reflecting this inherent change.

The station locations and rail alignment of the Sydney Metro are shown below.



# 4.0 Proposed Construction Traffic Management Plan

### 4.1 Construction Vehicle Route

Truck movements associated with the construction processes will access the site via Grosvenor Street, as illustrated in Figure 5. Details of critical vehicles swept paths in and out of the site are provided in Appendix C.

It is noted that on departure:

- 6.4m small rigid vehicle (SRV) will use Ernest Street towards Warringah
   Freeway/Pacific Highway given that Ernest Street has 10t load limit
- All vehicles longer than SRV, i.e., MRV, HRV and semi which will be programmed to arrive outside of peak hours will use Ben Boyd Road towards Military Road

### 4.2 Truck Movements

The envisaged truck arrivals will be:

### <u>Demolition and Excavation Stage</u>

12.5m Length

The frequency is 1-3 Vehicles daily

The total load is 23 ton

19m Length

The frequency is 5-7 Vehicles daily

The total load is 48 ton

### For Structure Stage

12.5m Length

The frequency is 1-3 Vehicles Daily

The total load is 23 ton

Ref. 20136 13

12.5m Length

The frequency is 30 Vehicles For Concrete pours (7 Times in Project life)

The total load is 27 ton

19m Length

The frequency is 1-3 Vehicles Per Week

The total load is 48 ton

Given the low truck movements, a truck holding area will not be required. Truck drivers will be advised of the designated truck routes to/ from the site. No queuing or marshalling of trucks will be permitted on public roads in the vicinity of the site. Accredited traffic controller/ site personnel will ensure they are in radio contact with truck drivers, ensuring each vehicle arrival is anticipated and planned. The proposed truck route passes through

### 4.3 Construction Hours

The hours of construction activity will be:

7.00am – 5.00pm Monday to Friday

8.00am – 1.00pm Saturday

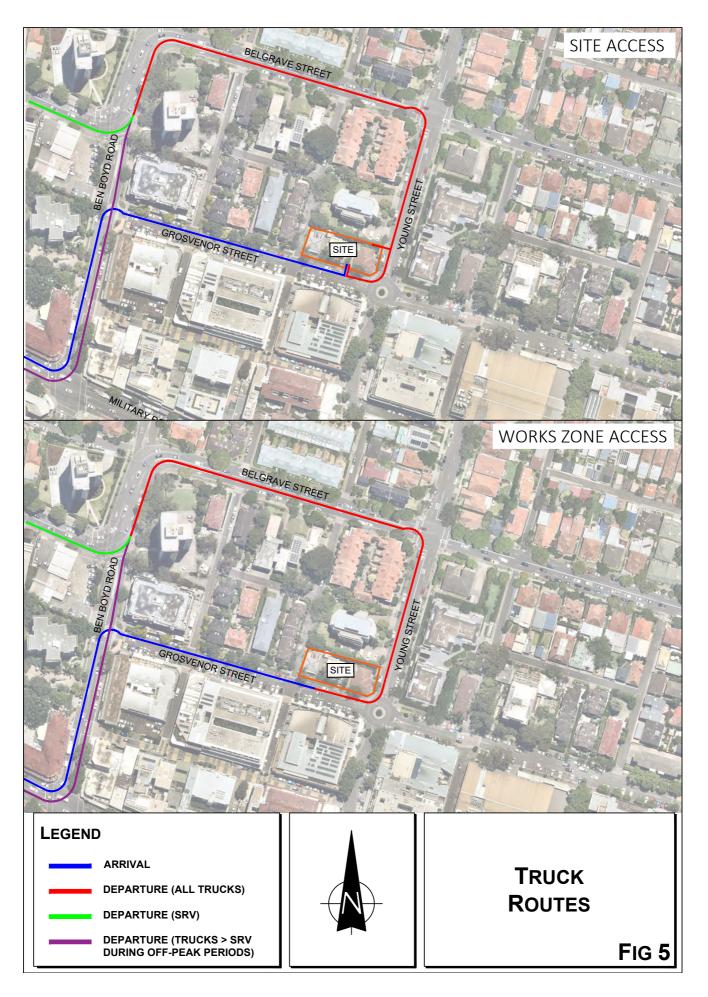
No work Sunday and public holidays

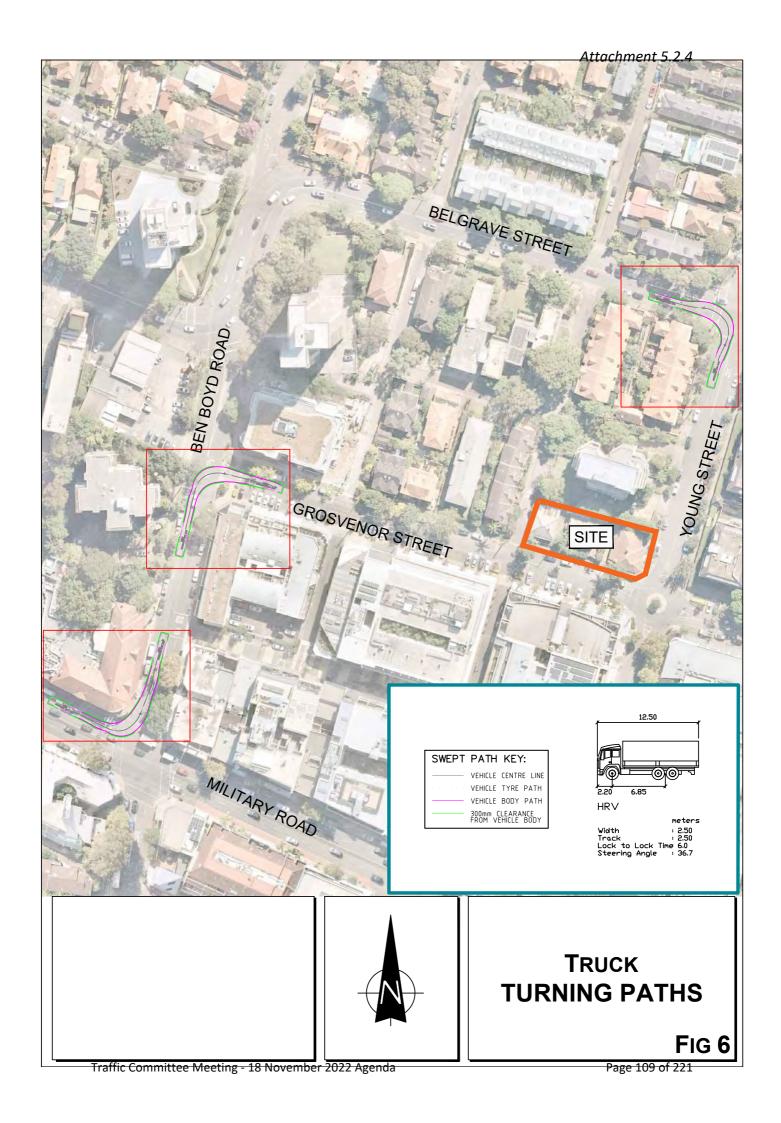
# 4.4 Pedestrian Management

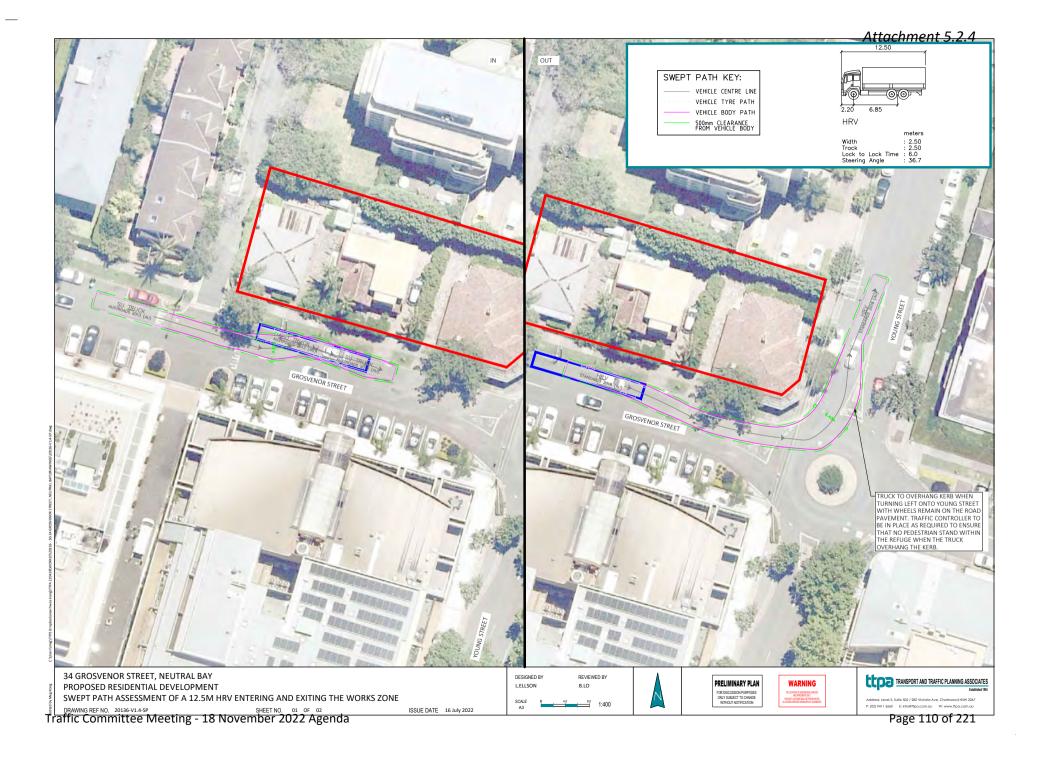
The following protections would be provided for pedestrians in the perimeter of the site:

- Grosvenor Street and Young Street: Class B hoarding will be provided on the footpath along the northern side of Grosvenor Street and the western side of Young Street, to ensure safe pedestrian passage past the site.
- Young Lane: Pedestrians walking along the pedestrian link along Markham Avenue will be protected by A-Class hoarding

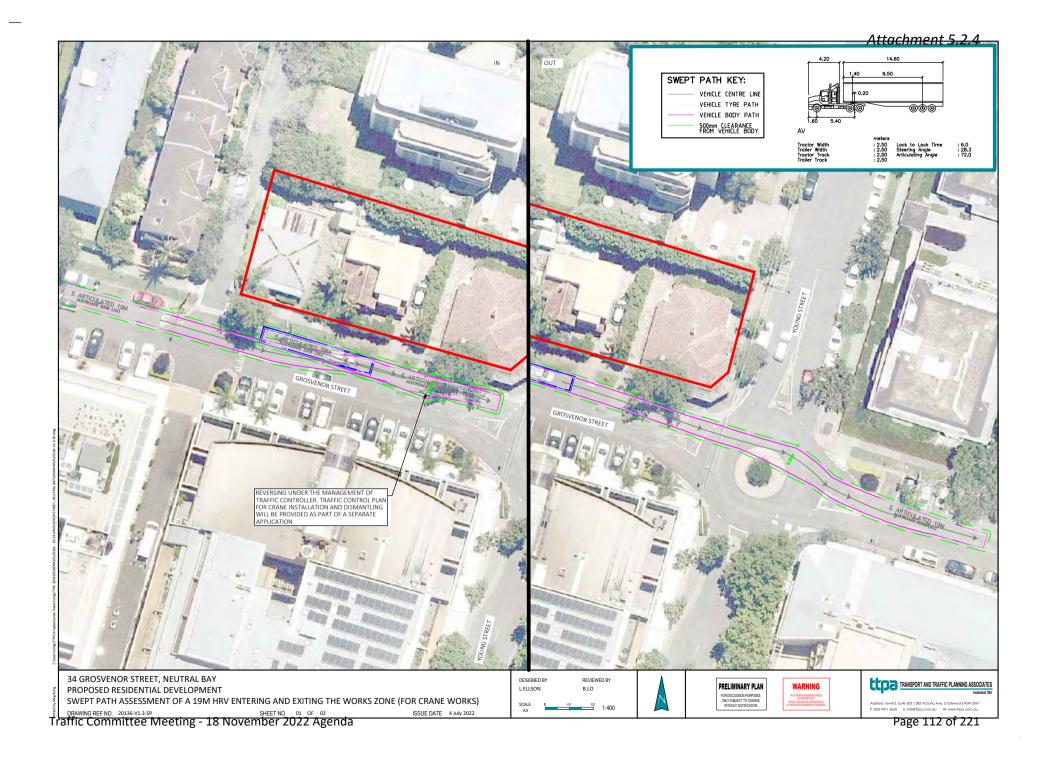
Ref. 20136 14

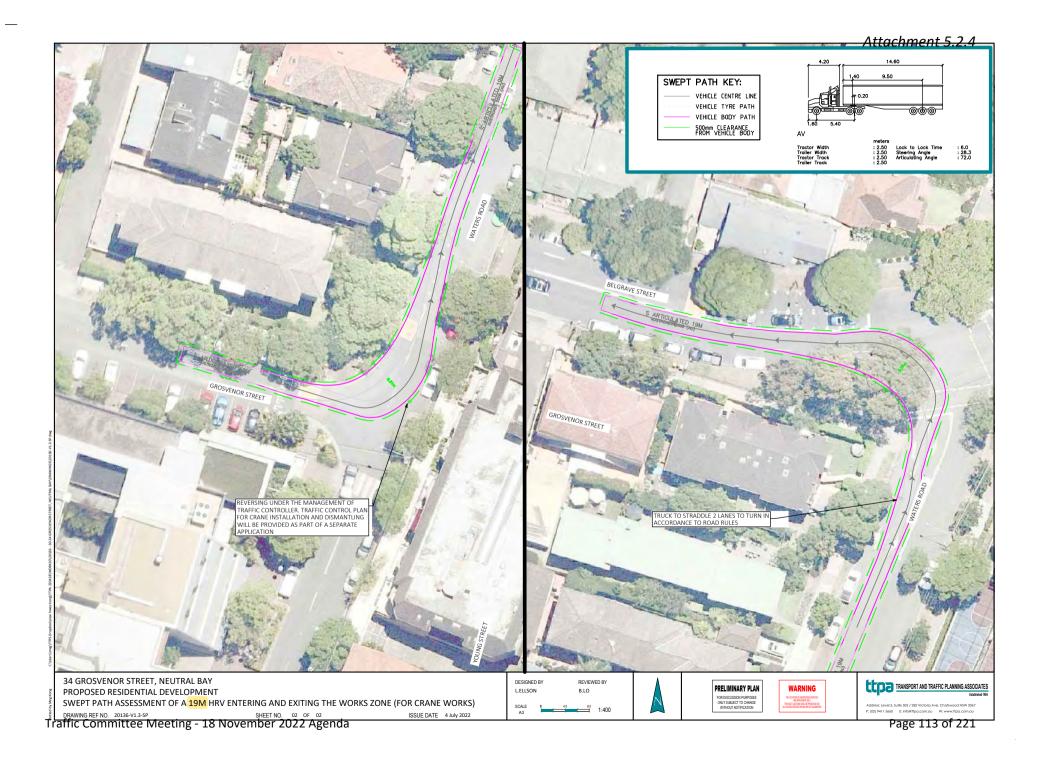


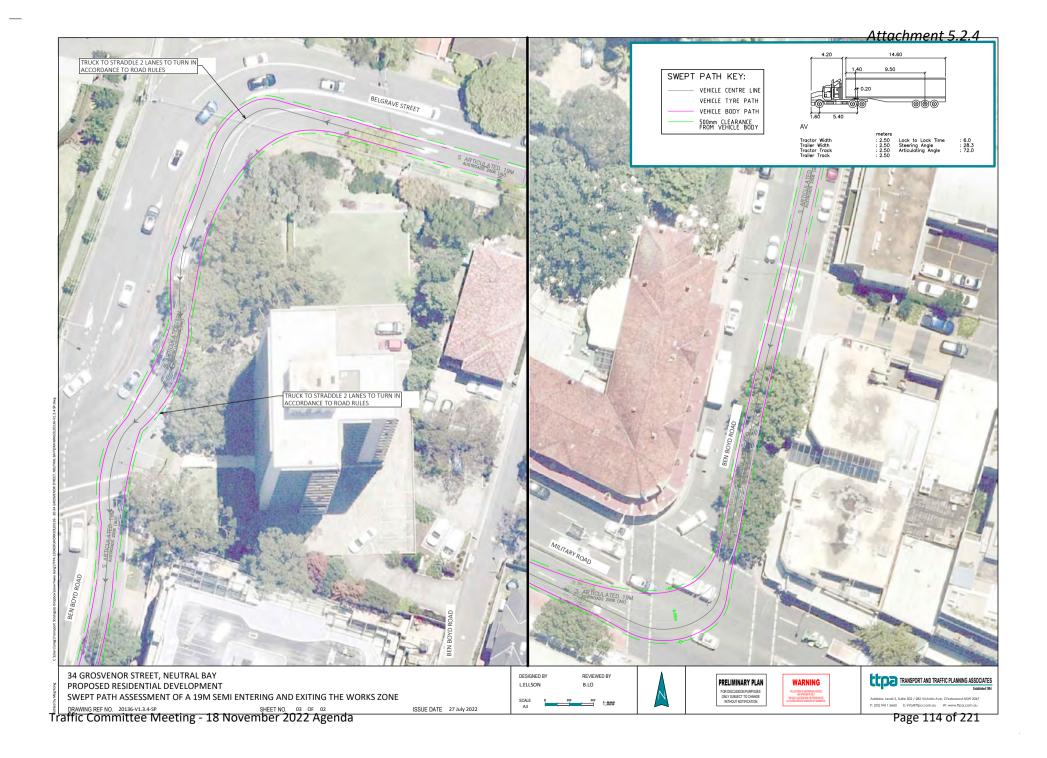












RMS accredited traffic controllers will supervise all vehicle and materials movements into and out of the site, loading area and works zone, as well as loading/unloading activities at all times.

### 4.5 Contact Details

The interim contact person who is to have authority without reference to other persons to comply with instructions issued by the Council's Traffic Engineer or the Police is as follows:

Adam Arias Assistant Development Manager Platform Project Services Pty Ltd

M: 0421 024 056

E: adam@platformpps.com.au

The above contact will be updated once a contractor has been engaged.

### 4.6 Works Zone

A 19m long Works Zone will be required on the 30, 32 and 34 Grosvenor Street frontage during the latter construction and fitout processes to facilitate delivery vehicles stoppages.

The Works Zone will require the temporary removal of 2-3 on-street parking spaces on the northern side of Grosvenor Street.

A separate application for the works zone would be submitted separately as required for approval from the North Sydney Traffic Committee prior to the operation of the works zone. The applicant will pay all appropriate Council advertised fees and charges, including the cost of the signage and loss of parking fee. It is noted that there will be no meter removal required as part of the Works Zone application. The works zone will not be used for private kerbside parking by contractors, tradesman or visitors to the site.

Ref. 20136

### 4.7 Cranage and Materials Handling

1 tower crane will be erected within the site, and specific areas will be available for loading/unloading, materials handling and storage, and worker sheds, etc. The tower crane will be utilised for materials handling within the works zone and the on-site material handling zone.

A separate application for temporary road closure and crane use from the public property will be submitted to Council for approval as required prior to the installation of the on-site tower crane.

Light materials will be loaded/unloaded between the works zone using either forklifts or trolleys.

### 4.8 Site Induction

All workers and visitors employed on the site by the appointed contractor (including sub-contractors) will be required to undergo a formal 'site induction' process and all the inductions will be performed specifically to each trade according to Workcover OH & S requirements.

The induction will include details of approved access routes to and from the construction site for site staff and delivery vehicles, parking arrangements, as well as standard environmental, WHS, driver protocols and emergency procedures. The agreed work hours must be included as part of this induction.

# 4.9 Construction Worker Parking

There will be no on-site car parking available for workers during the earlier construction stage. Once the internal driveway and basement carpark are built (and when construction activity is most intensive), additional worker parking may be available.

Some unrestricted on-street parking will be available along the surrounding local streets for the workers. Given the proximity of the site to high-frequency public transport services, all workers will be encouraged at all times to utilise the highly

accessible public transport system which exists in the vicinity of the site or to carpool wherever possible.

A tool drop-off and storage facility will be provided within the site. This would allow tradespeople to drop-off and store their tools and machinery, allowing them to use public transport to travel to/ from the site on a daily basis.

Workers will also be informed of appropriate tool/ equipment drop-off and storage arrangements made within site sheds and amenities provided on-site. Bus and train schedules will be provided to all workers during site induction to demonstrate alternative modes of transport available.

### 4.10 Traffic Guidance Schemes

The TGS presents the principles of traffic management, with the detailed information for worksite operations is contained in the Roads and Maritime Services Traffic Control at Work Sites Technical Manual Version 5.0 dated 27 July 2018. The control of traffic at work sites must be undertaken with reference to WorkCover requirements and the contractor's Constructions Workplace Health and Safety Manuals.

The TGSs prepared by the Traffic Control contractor (a Certified Traffic Controller under RMS regulations) as required throughout the process and in accordance with Australian Standards 1742.3, for all construction processes are provided in Appendix D.

# 4.11 Tree Protection Management Measures

The contractor will complete the construction works without encroaching the tree protection zones (TPZs). Protective fencing and ground protection will be installed in accordance to the tree management plan provided overleaf. The contractor will ensure that the existing trees within the TPZs are protected in accordance with the Australian Standards, based on the following guidelines:

\* no works will be undertaken without the supervision of a qualified arborist

Ref. 20136

- \* no people, vehicles or machinery can enter the zone
- \* no stockpiling of building materials, debris or soil within the zone
- \* no fuel, oil dumps or chemicals allowed within or around the zone
- no altering of soil levels within the zone
- \* no open trenching within the zone
- \* no attachment of wires, nails, screws or any other fixing device or as a winch support or anchorage
- \* supplementary watering is provided to trees through dry periods, during and after the construction process.

### 4.12 Construction related Vehicle Movements

An average of 4 trucks per day is expected, with a maximum of 6 trucks per day during peak construction (12 movements per day). The heavy vehicle movements are likely to be spread throughout the day. However, in the worst-case assessment, it has been assumed that 25%, or 3 vehicles (6 two-way vehicle movements), would occur during the peak hour. Queuing or marshalling of construction vehicles will not be permitted on the road network and call-up procedures must be put in place to manage arrivals.

Workers typically begin and end their workday outside of network peak periods (i.e., 6.30 am - 3.30 pm) and as such is unlikely to adversely impact the surrounding road network.

### 4.13 Impact on Public Transport Services

The heavy vehicle haulage routes will largely be limited on arterial and sub-arterial roads which are designed to accommodate heavy vehicle movements. As such, the impacts on public transport services will be minimal on the approach/departure routes. While the truck route will overlap with this bus route during the construction period, it is not expected that traffic generation of no more than 6 vehicle visitations per day would be adverse to the efficiency of the existing bus service.

### 4.14 Impact on Pedestrian Movements

Pedestrian movements will remain on Grosvenor Street, Young Street and Young Lane, separated from the site through the provision of hoarding along the perimeter of the site where applicable.

Where the frontage footpath along Grosvenor Street will be affected by the Works Zone operation, accredited traffic controllers who will be present at the works zone and access points will ensure pedestrians are given right of way by construction vehicles to heighten their safety.

The above measures will be incorporated into the site induction program. Workers/subcontractors will be inducted to drive with extra caution and according to the posted speed limit at all times.

### 4.15 Temporary Road Closure

It is not anticipated that the proposed works would require a road closure. If required:

- The costs and application processes for the required permits are to be borne by the contractor.
- Temporary road closures shall be confined to weekends and off-peak hour times and are subject to the approval of the Council.
- Before implementation of any road closure during construction, Council shall be advised of these changes and a TGS shall be submitted to Council for approval.
- This TGS shall include times and dates of changes, measures, signage, road markings and any temporary traffic control measures.

## 4.16 Impact on Emergency Vehicle Access

Emergency protocols on the site would include a requirement for an accredited traffic controller to assist with emergency access, and as such, access to the site by emergency vehicles will not be affected. The liaison will be maintained with the police

and emergency services agencies throughout the construction period and a site contact will be made available for out-of-hours emergencies and access.

### 4.17 Spoil Management

To ensure that soil/excavated material is not transported on wheels or tracks of vehicles and deposited on surrounding roadways, a wheel wash station will be positioned at the entry/exit point.

### 4.18 Road Serviceability

The contractor will be responsible for ensuring that the road pavement, kerb and gutter along Grosvenor Street, Young Street and Young Lane, remain in clean and serviceable states during the course of the construction.

### 4.19 Public Notification

The contractor would prepare notification letters, under the approval of Council, that would be delivered to adjoining property owners, to advise of the construction works and timeframes for completion of each phase of the process.

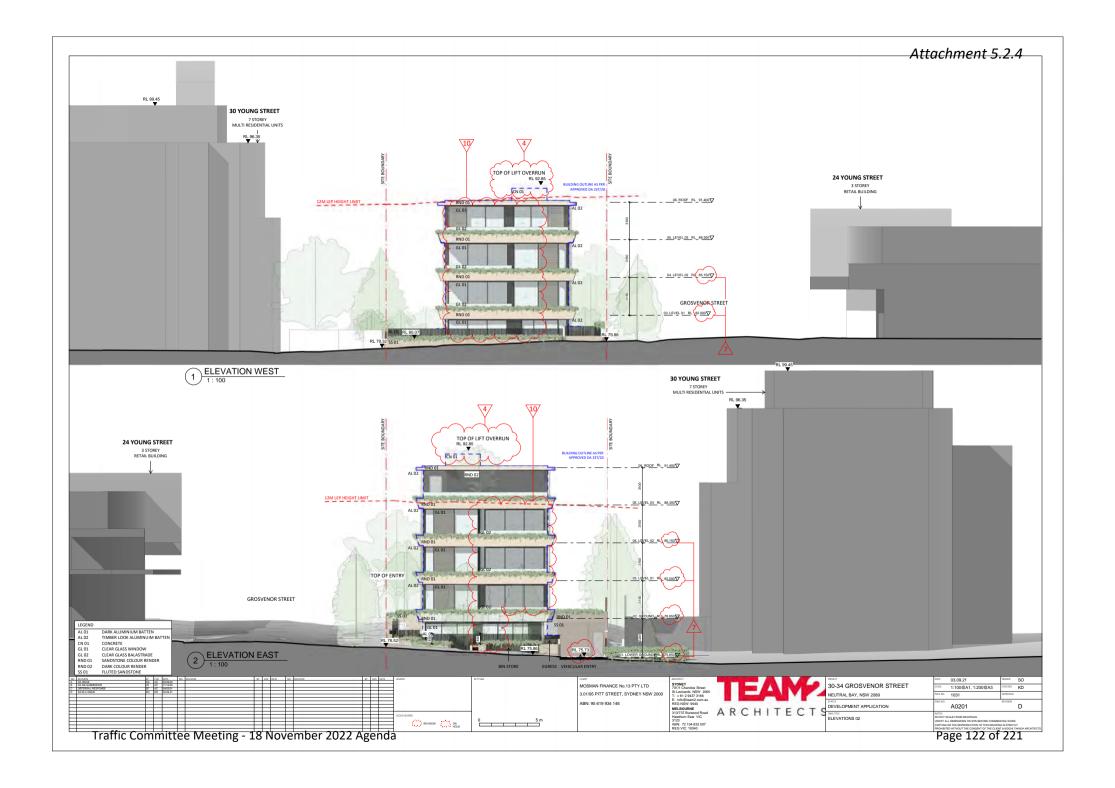
### 4.20 Impact on Neighboring Properties

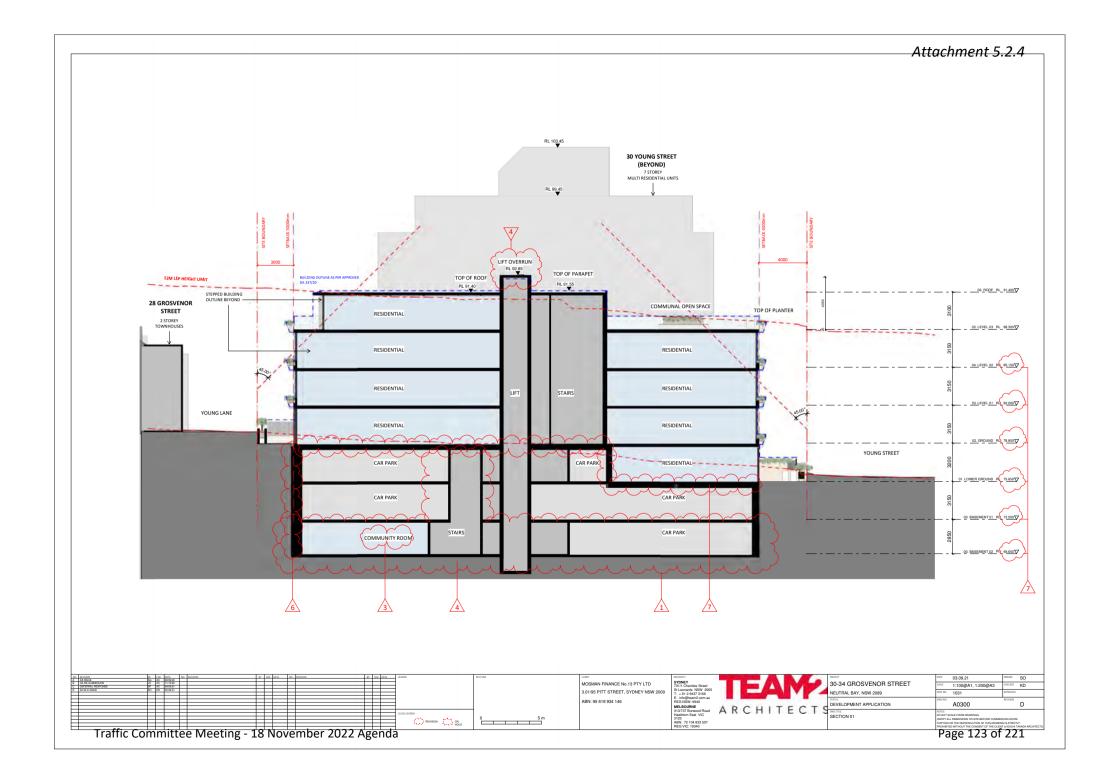
Access to neighbouring properties will be maintained at all times. Workers/subcontractors will be directed not to park their vehicles at the driveways of the neighbouring properties. This will be incorporated into the site induction program. The contractor would take appropriate action if informed of this activity occurring.

### 4.21 Dilapidation Report

A dilapidation report will be provided before and after the construction activities as required by Council.

Transport and Traffic Planning Associates Appendix A **Architectural Plans** ttpa

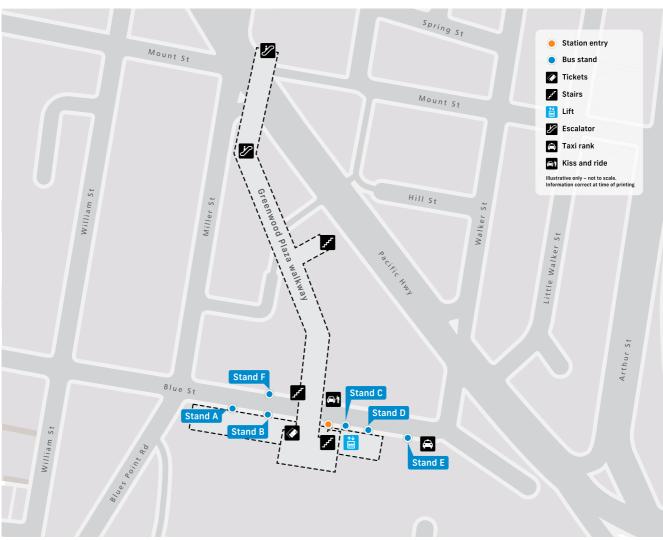






Transport and Traffic Planning Associates Appendix B **Public Transport Provision** ttpa

# North Sydney Station Public Transport Map









Central Coast



Stan	d A
Stop n	o. <b>206011</b>
261	Lane Cove
263	Crows Nest
343	Chatswood

Stan	d B
Stop n	o. <b>206012</b>
252	Gladesville
286	Denistone East
287	Ryde
290	Epping
622	Dural
653	West Pennant Hills
M20	Gore Hill

Stan	d C
Stop n	o. <b>206092</b>
202	Northbridge
203	Castlecrag
207	East Lindfield
208	East Lindfield
~~~	15. 11

Stand D		
Stop r	no. <b>206014</b>	
151	Mona Vale	
168	North Balgowlah	
173	Narraweena	
188	Avalon	
227	Mosman Junction	
228	Clifton Gardens	

Stan	d F
Stopi	no. <b>206015</b>
254	McMahons Point
260	Terrey Hills
265	Lane Cove
269	Kirribilli

For more information
transportnsw.info



229 Beauty Point
230 Mosman Wharf

246 Balmoral Heights
247 Taronga Zoo
E50 Manly

N90 Hornsby via Chatswood

N91 Macquarie Park

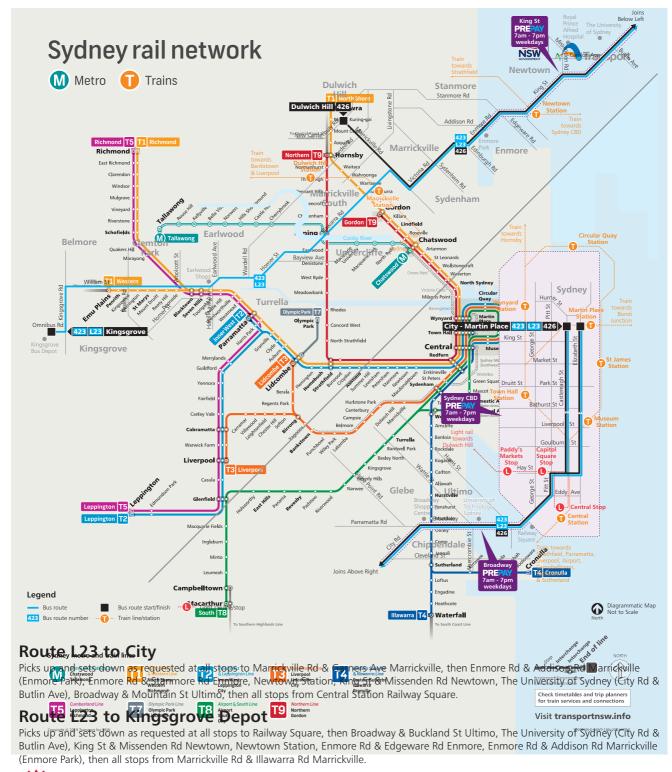
Arrivals only



1904PTM-P-NSY-/

### Routes 423, L23, 426

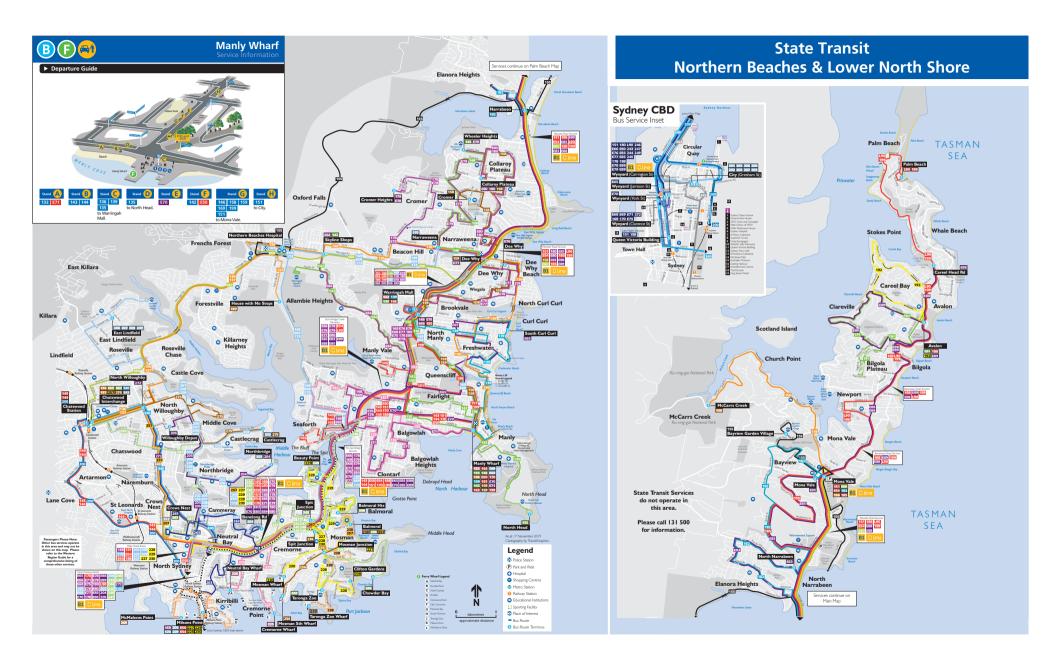


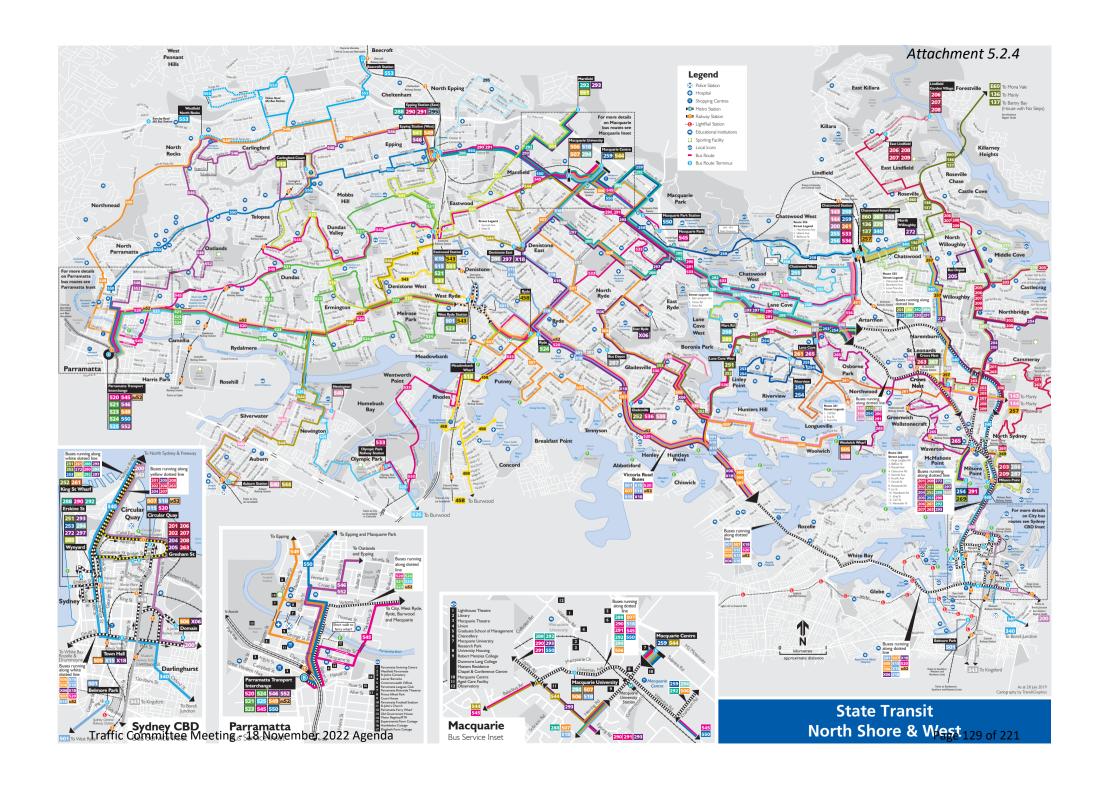






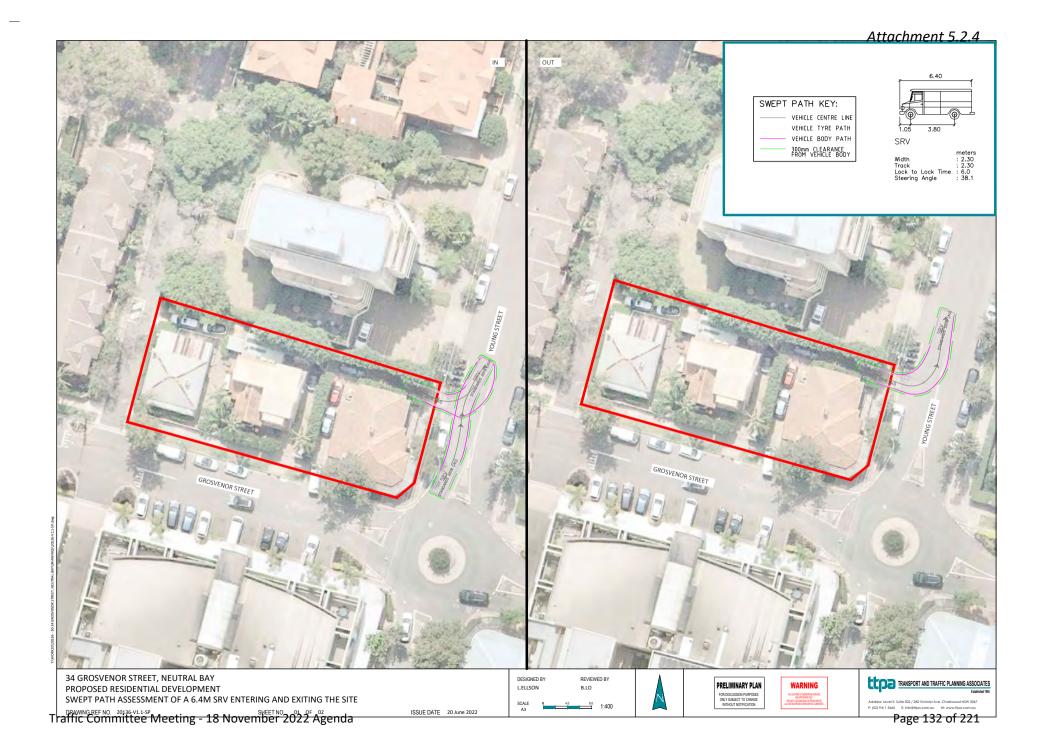
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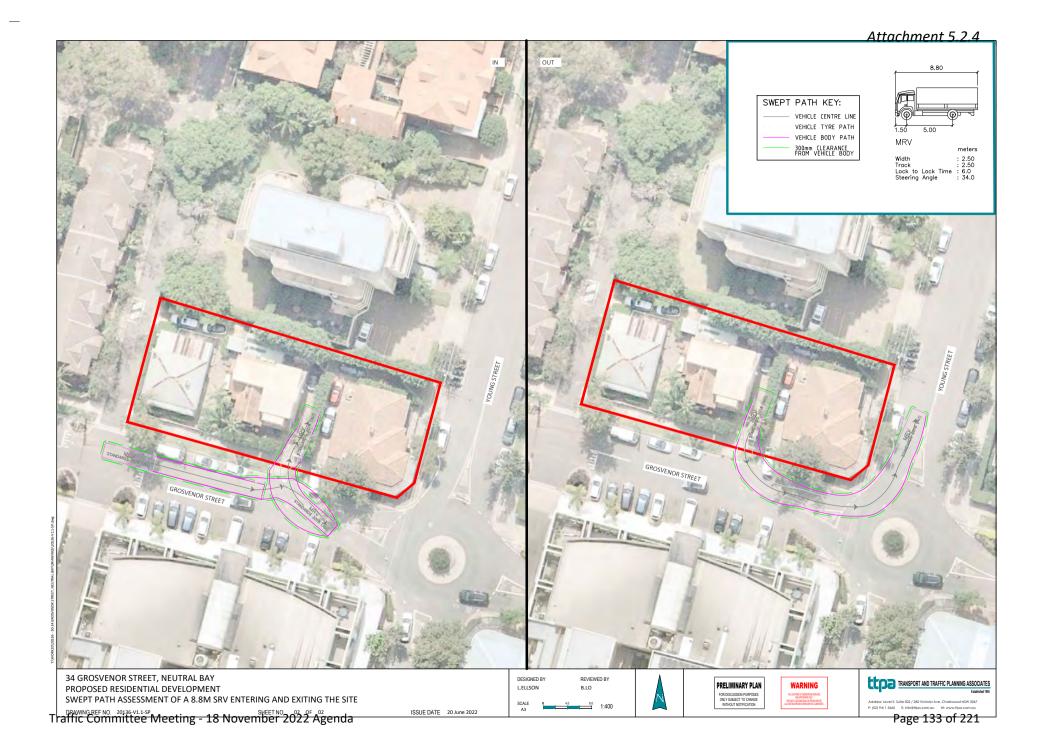


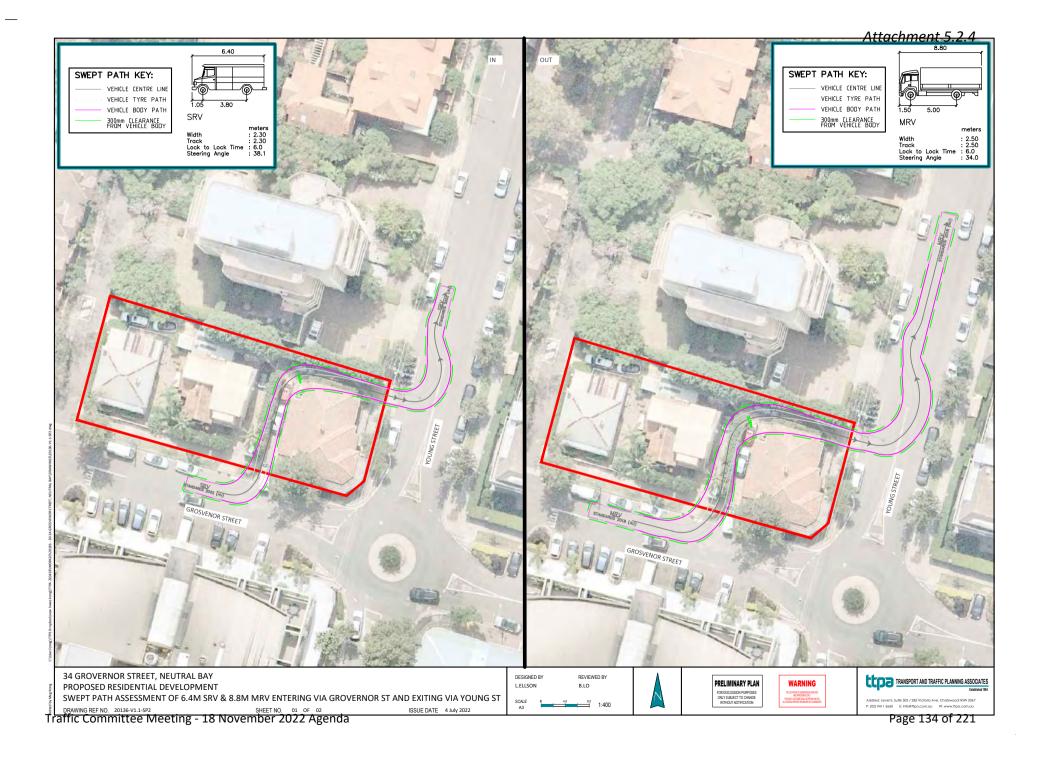




Transport and Traffic Planning Associates Appendix C **Turning Path Assessments** ttpa







Transport and Traffic Planning Associates Appendix D **Traffic Guidance Schemes** ttpa

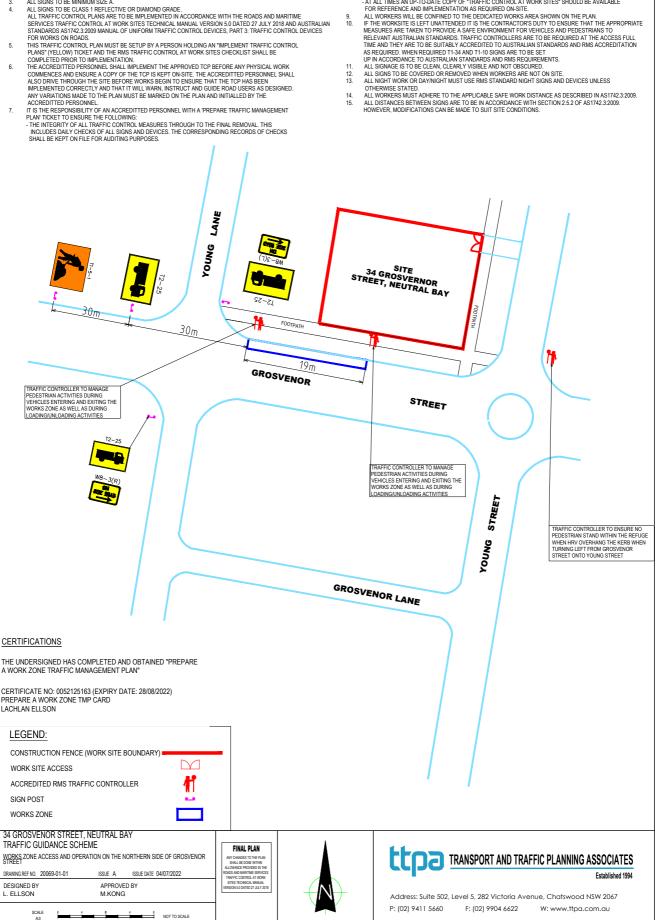
### NOTES - VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AFFECTED BY TRAFFIC CONTROL MEASURES. - AT ALL TIMES AN UP-TO-DATE COPY OF "TRAFFIC CONTROL AT WORK SITES" SHOULD BE AVAILABLE FOR REFERENCE AND IMPLEMENTATION AS REQUIRED ON-SITE. - ALL WORKERS WILL BE CONFINED TO THE DEDICATED WORKS AREA SHOWN ON THE PLAN. IF THE WORKSITE IS LEFT UNATTENDED IT IS THE CONTRACTOR'S DUTY TO ENSURE THAT THE APPROPRIATE MEASURES ARE TAKENT OF PROVIDE A SAFE ENVIRONMENT FOR VEHICLES AND PEDESTRIANS TO RELEVANT AUSTRALIAN STANDARDS. TRAFFIC CONTROLLERS ARE TO BE REQUIRED AT THE ACCESS FULL TIME AND THEY ARE TO BE SUTTABLY ACCREDITED TO AUSTRALIAN STANDARDS AND RMS ACCREDITATION AS REQUIRED. WHEN REQUIRED 17-34 AND 17-10 SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS ACCREDITATION AS REQUIRED. WHEN REQUIRED 17-34 AND 17-10 SIGNS ARE TO BE SET UP IN ACCORDANCE TO AUSTRALIAN STANDARDS AND RMS REQUIRED. ALL SIGNAGE IS TO BE CLEAR, L'CLEARLY VISIBLE AND NOT OSSOURED. ALL SIGNAGE IS TO BE CLEAR, L'CLEARLY VISIBLE AND NOT OSSOURED. ALL SIGNAGE IS TO BE CLEAR, L'CLEARLY VISIBLE AND NOT OSSOURED. ALL SIGNAGE IS TO BE CLEARLY L'SUBLE AND NOT OSSOURED. ALL SIGNAGE IS THE CLEARLY VISIBLE AND NOT OSSOURED. ALL SIGNAGE STATED. NOT ALL DIMENSIONS SHOWN ARE TO SCALE. LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY. ALL SIGNS TO BE MINIMUM SIZE A. ALL SIGNS TO BE CLASS I REPLECTIVE OR DIAMOND GRADE. ALL SIGNS TO BE CLASS I REPLECTIVE OR DIAMOND GRADE. ALL TRAFFIC CONTROL PLANS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE ROADS AND MARITIME 9. ALL TRAFFIC CONTROL PLANS ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE ROADS AND MARITIME 10. SERVICES TRAFFIC CONTROL AT WORK SITES TECHNICAL MANUAL VERSION 5.0 DATED 27 JULY 2018 AND AUSTRALIANS STANDARDS AS1742.3.2009 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 3: TRAFFIC CONTROL DEVICES VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO FOR WORKS ON ROADS. THIS TRAFFIC CONTROL PLAN MUST BE SETUP BY A PERSON HOLDING AN "IMPLEMENT TRAFFIC CONTROL PLANS" (YELLOW) TICKET AND THE RMS TRAFFIC CONTROL AT WORK SITES CHECKLIST SHALL BE COMPLETED PRIOR TO IMPLEMENTATION. THE ACCREDITED PERSONNEL SHALL IMPLEMENT THE APPROVED TCP BEFORE ANY PHYSICAL WORK COMMENCES AND ENSURE A COPY OF THE TCP IS KEPT ON-SITE. THE ACCREDITED PERSONNEL SHALL ALSO DRIVE THROUGH THE SITE BEFORE WORKS BEGIN TO RESURE THAT THE TCP PLAS BEEN IMPLEMENTED CORRECTLY AND THAT IT WILL WARN, INSTRUCT AND GUIDE ROAD USERS AS DESIGNED. ANY VARIATIONS MADE TO THE PLAN MUST BE MARKED ON THE PLAN AND INITIALLED BY THE ACCREDITED PERSONNEL. FOR WORKS ON ROADS ALL NIGHT WORK OF AUTHORISH MUST USE MINS 31 AMARIAND MIGHT SIGNS AND DEVICES DIKESS OTHERWISE STATED. ALL WORKERS MUST ADHERE TO THE APPLICABLE SAFE WORK DISTANCE AS DESCRIBED IN AS1742.3:2009. ALL DISTANCES BETWEEN SIGNS ARE TO BE IN ACCORDANCE WITH SECTION 2.5.2 OF AS1742.3:2009. HOWEVER, MODIFICATIONS CAN BE MADE TO SUIT SITE CONDITIONS. ACCREDITED PERSONNEL. IT IS THE RESPONSIBILITY OF AN ACCREDITTED PERSONNEL WITH A "PREPARE TRAFFIC MANAGEMENT PLAN TICKET TO ENSURE THE FOLLOWING: - THE INTEGRITY OF ALL TRAFFIC CONTROL MEASURES THROUGH TO THE FINAL REMOVAL. THIS INCLUDES DAILY OFFICES OF ALL SIGNS AND DEVICES. THE CORRESPONDING RECORDS OF CHECKS SHALL BE KEPT ON FILE FOR AUDITING PURPOSES. TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACTIVITIES DURING VEHICLES ENTERING AND EXITING THE SITE LANE YOUNG TRAFFIC CONTROLLER TO HOLD SOUTHBOUND TRAFFIC ON YOUNG STREET TO ALLOW TRUCK TO EXIT THE 34 GROSVERNOR STREET, NEUTRAL BAY 30m 50m NORTHBOUND TRAFFIC ON YOUNG STREET TO ALLOW TRUCK TO EXIT THE SITE GROSVENOR STREET ₩0 <del>5</del> TRAFFIC CONTROLLER TO HOLD EASTBOUND TRAFFIC ON GROSVENOR STREET TO ALLOW TRUCK TO REVERSI INTO THE SITE TRAFFIC CONTROLLER TO MANAGE PEDESTRIAN ACTIVITIE DURING VEHICLES ENTERING AND EXITING THE SITE STREET YOUNG GROSVENOR LANE **CERTIFICATIONS** THE UNDERSIGNED HAS COMPLETED AND OBTAINED "PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN' CERTIFICATE NO: 0052125163 (EXPIRY DATE: 28/08/2022) PREPARE A WORK ZONE TMP CARD LACHLAN ELLSON LEGEND: CONSTRUCTION FENCE (WORK SITE BOUNDARY) $\square$ WORK SITE ACCESS 11 ACCREDITED RMS TRAFFIC CONTROLLER SIGN POST 34 GROSVENOR STREET, NEUTRAL BAY TRAFFIC GUIDANCE SCHEME FINAL PLAN SITE ACCESSES (EXISTING DRIVEWAY) ON GROSVENOR STREET AND YOUNG STREET TRANSPORT AND TRAFFIC PLANNING ASSOCIATES DRAWING REF NO. 20069-01-01 DESIGNED BY APPROVED BY M.KONG Address: Suite 502, Level 5, 282 Victoria Avenue, Chatswood NSW 2067 P: (02) 9411 5660 F: (02) 9904 6622 W: www.ttpa.com.au NOT TO SCALE

#### NOTES

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#### 5.3. Ernest Street at Sophia Street, Crows Nest - Traffic Calming Review

**AUTHOR:** Brin Baskaran, Traffic and Transport Engineer

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

#### **ATTACHMENTS:**

1. Traffic Committee Approved Ernest St at Sophia St Crows Nest - Refuge Island Reconstruction Plan [5.3.1 - 4 pages]

#### **PURPOSE:**

At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

**THAT** a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376<sup>th</sup> Council meeting dated 27 June 2022. Therefore, the refuge island reconstruction in Ernest Street at Sophia Street is now due for review.

#### **EXECUTIVE SUMMARY:**

As part of the 2019/2020 implementation of North Sydney Council's Local Area Traffic Management (LATM) Action Plans, it was proposed to reconstruct the existing Refuge Island in Ernest Street at Sophia Street to comply with the current Australian Standard. This work resulted in gaining of 2 additional parking spaces on south side of Ernest Street. This proposal was approved by the Traffic Committee under Delegated Authority (TDA 038/20) on 6 April 2020, with following recommended and subsequently adopted by Council:

**THAT** Council reconstructs the existing Refuge Island in Ernest Street at Sophia Street to comply with the current Australian Standard, after the affected properties are notified by letterbox delivery

The construction of Refuge Island and associated civil works were completed in September 2020.

At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

**THAT** a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376<sup>th</sup> Council meeting dated 27 June 2022.

#### **FINANCIAL IMPLICATIONS:**

Nil.

#### RECOMMENDATION:

1. **THAT** the constructed refuge island in 2020 at the intersection of Ernest Street and Sophia Street, Crows Nest to remain.

#### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet diverse community needs
- 2.2 Vibrant public domains and villages
- 5. Our Civic Leadership
- 5.3 Community is engaged in what Council does
- 5.4 Council services are efficient and easy to access

#### **CONSULTATION REQUIREMENTS**

Community engagement is not required.

Standard or Guideline Used: AS1742.10

Signs & Lines Priority: N/A

Precinct and Ward: Holtermann, St Leonards

**Impact on Bicycles:** No impact on bicycles. The site is not on a bicycle route.

**Impact on Pedestrians:** the proposal will improve pedestrian's safety.

Impact on Parking: gaining 2 additional parking spaces

#### **DETAIL**

As part of the 2019/2020 implementation of North Sydney Council's Local Area Traffic Management (LATM) Action Plans, it was proposed to reconstruct the existing Refuge Island in Ernest Street at Sophia Street to comply with the current Australian Standard. This work resulted in gaining of 2 additional parking spaces on south side of Ernest Street. This proposal was approved by the Traffic Committee under Delegated Authority (TDA 038/20) on 6 April 2020, with following recommended and subsequently adopted by Council:

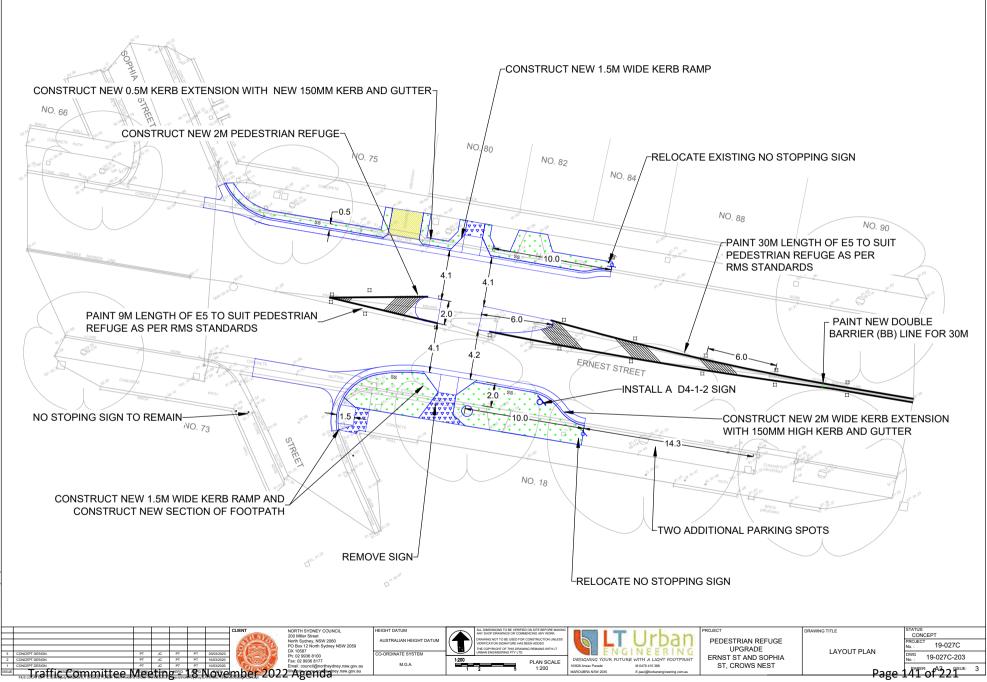
**THAT** Council reconstructs the existing Refuge Island in Ernest Street at Sophia Street to comply with the current Australian Standard, after the affected properties are notified by letterbox delivery

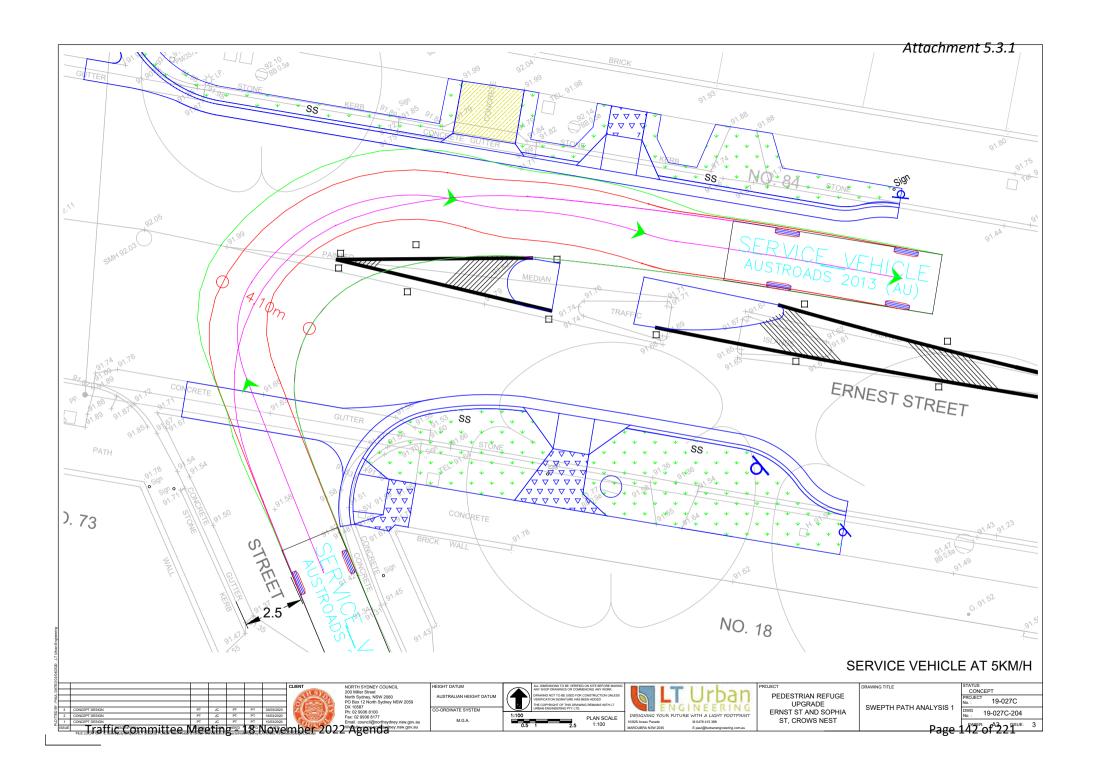
The construction of Refuge Island and associated civil works were completed in September 2020.

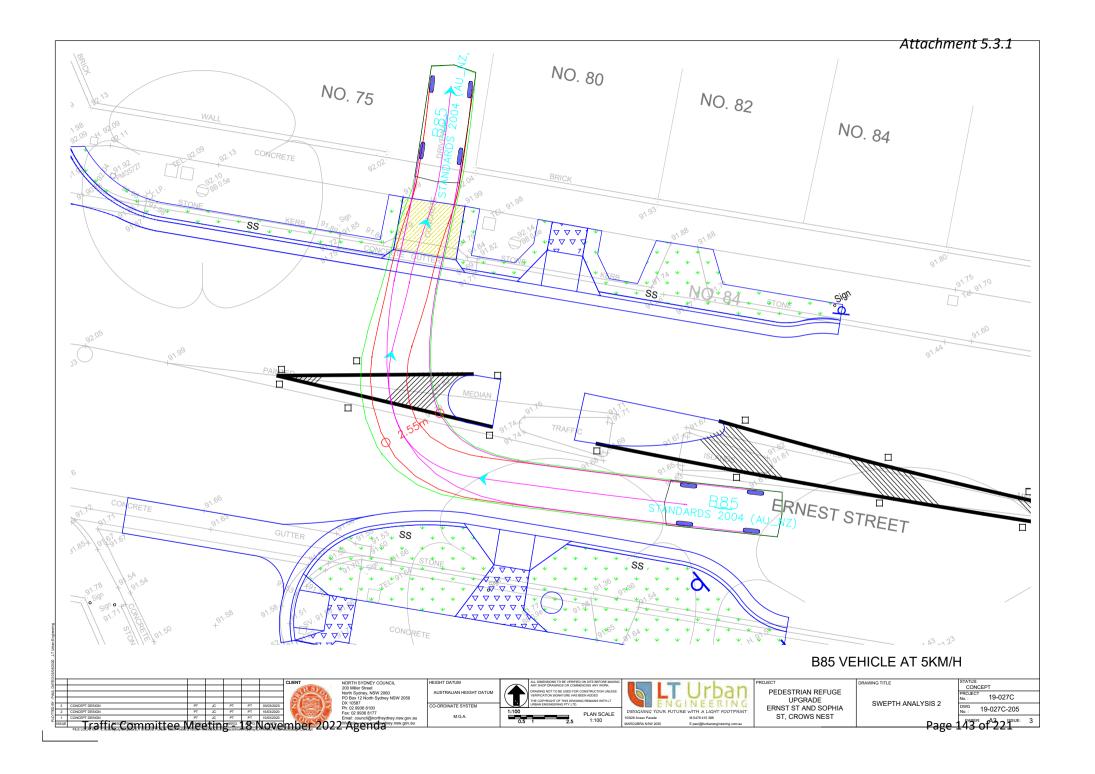
At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

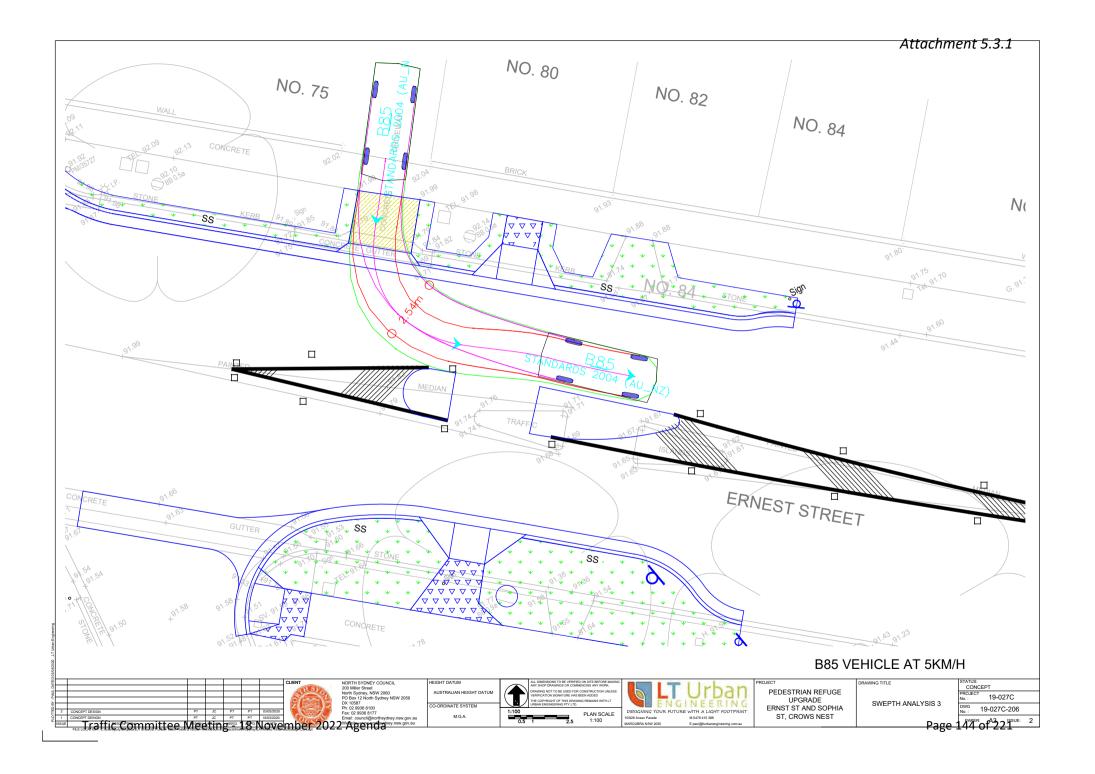
**THAT** a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376<sup>th</sup> Council meeting dated 27 June 2022. Council has not received any feedback from the community since the reconstruction of the refuge island. Hence, no further action is required at this intersection.









### 5.4. Palmer Street at Abbott Street, Cammeray – Traffic Calming Review

**AUTHOR:** Brin Baskaran, Traffic and Transport Engineer

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

### **ATTACHMENTS:**

 Traffic Committee Approved Abbott Street and Palmer Street - Installation of pedestrian refuge and [5.4.1 - 1 page]

### **PURPOSE:**

At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

**THAT** a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376<sup>th</sup> Council meeting dated 27 June 2022. Therefore, the traffic calming in Palmer Street at Abbott Street is now due for review.

### **EXECUTIVE SUMMARY:**

As part of the 2021/2022 implementation of North Sydney Council's Local Area Traffic Management (LATM) Action Plans, a pedestrian refuge and speed cushions at the intersection of Abbott Street and Palmer Street, Cammeray were installed to slow down traffic and reduce the crossing distance. This proposal was approved by Traffic Committee under Delegated Authority (TDA 107/21) on 11 February 2022, with the following recommendation which was subsequently adopted by Council:

**THAT** Council installs a pedestrian refuge and speed cushions at the intersection of Abbott Street and Palmer Street, Cammeray, after the affected properties are notified by letterbox delivery.

At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

**THAT** a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376<sup>th</sup> Council meeting dated 27 June 2022.

### **FINANCIAL IMPLICATIONS:**

Nil.
RECOMMENDATION:
<b>1. THAT</b> the constructed pedestrian refuge and speed cushions in 2022 at the intersection of Palmer Street and Abbott Street, Cammeray to remain.

### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet diverse community needs
- 2.2 Vibrant public domains and villages
- 5. Our Civic Leadership
- 5.3 Community is engaged in what Council does
- 5.4 Council services are efficient and easy to access

### **CONSULTATION REQUIREMENTS**

Community engagement is not required.

Standard or Guideline Used: AS1742.10

Signs & Lines Priority: N/A

Precinct and Ward: Bridgeview, St Leonards

**Impact on Bicycles:** No impact on bicycles. The site is not on a bicycle route.

**Impact on Pedestrians:** the proposal will improve pedestrian's safety.

Impact on Parking: No loss of legal parking spaces.

### **DETAIL**

As part of the 2021/2022 implementation of North Sydney Council's Local Area Traffic Management (LATM) Action Plans, a pedestrian refuge and speed cushions at the intersection of Abbott Street and Palmer Street, Cammeray were installed to slow down traffic and reduce the crossing distance. This proposal was approved by Traffic Committee under Delegated Authority (TDA 107/21) on 11 February 2022, with the following recommendation which was subsequently adopted by Council:

THAT Council installs a pedestrian refuge and speed cushions at the intersection of Abbott Street and Palmer Street, Cammeray, after the affected properties are notified by letterbox delivery.

At the Traffic Committee meeting dated 10 June 2022, it was resolved to recommend:

THAT a report come back to the committee in 3 months to see if the Traffic Calming on the corner of Palmer and Abbott Street, Cammeray as well as the intersection on the corner of Sophia Street and Ernest Street are both working.

This matter was endorsed at the 376th Council meeting dated 27 June 2022.

Council has received one feedback from the community after the construction of refuge island and speed cushion was completed and there has been no further feedback since then.

### **Resident Comment**

Good afternoon, I am writing to voice my anger at the stupidity of the pedestrian island that has recently been added to the intersection of Abbott & Palmer St Cammeray.

Whose bright idea was it to make the road narrower & then fill it in with a pedestrian island!!. And now overnight we have speed bumps to boot!!. Seriously, I don't own a large car & now it's difficult to get around the corner. Not to mention that now pedestrians fly out in front of you to stand on the island, whereas before they would have waited. This will be more dangerous than it was previously.

I would like to know what study was done to come to the conclusion to erect this "safety" crossing. Even the pedestrian crossing is in a stupid place, all it does is stop the flow of traffic. Honestly, try consulting with residents not councillors. I believe there will be a lot of angry residents & more accidents.

### Officer Comment

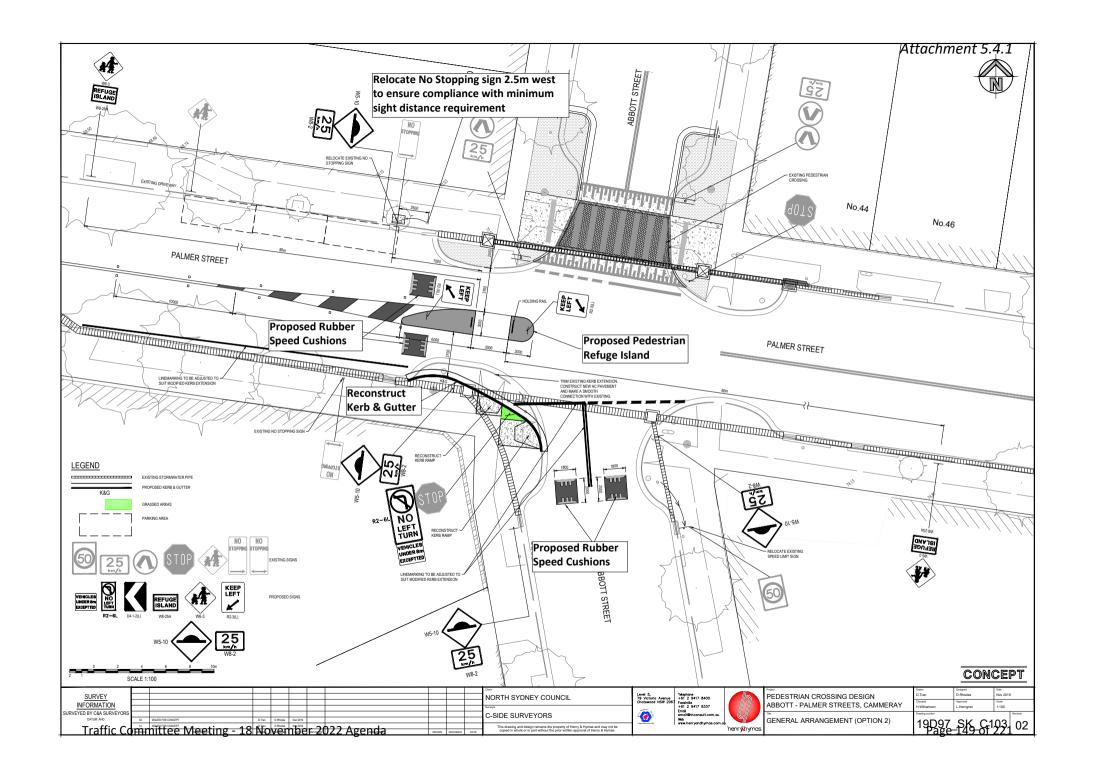
The pedestrian refuge and speed cushion have been installed in accordance with the Australian Standard.

The purpose of narrowing the street width is to reduce the speeding in the street and shortened crossing distance for pedestrian. Traffic tube count was taken prior and after the installation of pedestrian refuge and speed cushion. Prior to the installation, the 85<sup>th</sup> percentile speed was 47km/hr and after the installation, the 85<sup>th</sup> percentile speed was 40km/hr. Hence, the traffic calming installation has reduced speeding on Palmer Street.

The travel lane is more than 3m and vehicles can manoeuvre without any difficulties.

As part of the 2021/2022 implementation of North Sydney Council's Local Area Traffic Management (LATM) Action Plans, it was proposed to install a pedestrian refuge and speed cushions.

Community consultation took place from 6 November 2020 until 6 December 2020. Approximately 68 questionnaires were sent to properties in the surrounding area, and Tunks and The Plateau Precincts. The survey was available online through Council's 'Have Your Say' webpage. A total of 9 responses were received. This represents a response rate of 13.2%, which is above the average response rate of 10 to 12%. The results indicate a community preference for the installation a pedestrian refuge (88.9% support and 11.1% objection) and speed cushions (55.6% support and 44.4% objection).



### 5.5. New Car Share Applications- Consultation Outcomes

**AUTHOR:** Max White, {position}

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

### **ATTACHMENTS:**

- Attachment A Community Engagement Strategy New Car Share Applications ECM 9056530 [5.5.1 - 5 pages]
- 2. Attachment B Motorbike and Scooter Parking Strategy and Action Plan [**5.5.2** 19 pages]

### **PURPOSE:**

This report recommends one parking space in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest be converted to dedicated car share spaces. The application is informed by data provided by the operator that demand for car share is increasing and surplus demand exists at the sites, and consultation outcomes with the community.

### **EXECUTIVE SUMMARY:**

The Car Share provider GoGet has proposed five dedicated car share spaces in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest. In October 2022, GoGet submitted applications for the locations, which included three months usage data and memberships within a 250-meter radius of each location.

In addition, GoGet has completed its Annual Survey and the result for North Sydney revealed a steep decrease in car ownership after residents joined. The survey found that 30% of members had given up a car entirely since joining GoGet, combined with customers that already did not have a car, this results in 63% of North Sydney members no longer owning a car. These members reported that joining carshare enabled them to defer the purchase of a car.

This report recommends the proposed dedicated parking spaces in Angelo Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest be converted to dedicated car share spaces in line with the data provided by the operator that surplus demand exists at the sites and consultation outcomes with the community.

### **FINANCIAL IMPLICATIONS:**

There will be no financial implications to Council.

### **RECOMMENDATION:**

<b>1. THAT</b> the consideration of the new car share spaces in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest be approved by the Council.

### LINK TO COMMUNITY STRATEGIC PLAN

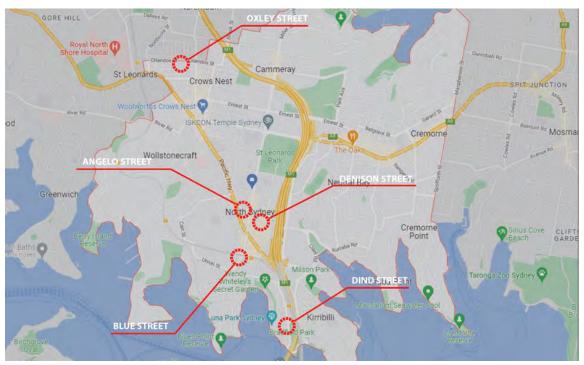
The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.3 Prioritise sustainable and active transport
- 2.4 Efficient traffic mobility and parking
- 3. Our Innovative City
- 3.2 North Sydney is smart and innovative

### **BACKGROUND**

The North Sydney Community Strategic Plan North Sydney Vision 2040 ('CSP') sets a target to increase the number of car share membership in the North Sydney LGA. The expanded provision of on-road dedicated car share spaces in appropriate locations is required to achieve this target.

In line with the CSP, this report recommends the proposed dedicated parking spaces in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest be converted to dedicated car share spaces in line with the data provided by the operator that surplus demand exists at the sites and consultation outcomes with the community.



Map 1. Proposed dedicated car share locations



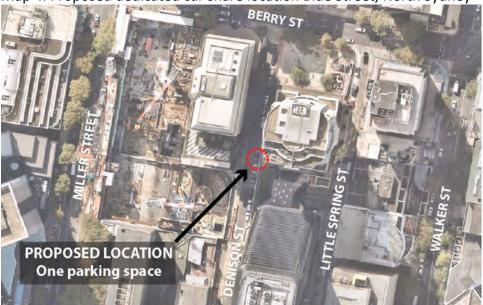
Map 2. Proposed dedicated car share location Dind Street, Milsons Point



Map 3. Proposed dedicated car share location Oxley Street, Crows Nest



Map 4. Proposed dedicated car share location Blue Street, North Sydney



Map 5. Proposed dedicated car share location Denison Street, North Sydney



Map 6. Proposed dedicated car share location Angelo Street, North Sydney

Car Share schemes provide several potential benefits to scheme members and the broader community as they can:

- Enable residents to have car free households
- Encourage walking, cycling and greater use of public transport
- Increase parking capacity, as one car/space can cater for many residents
- Ease traffic congestion by reducing traffic 'cruising' for parking
- Improve cost of living through reduced dependency on car ownership
- Clean the air and reduce carbon emissions through less car kilometers travelled

### **CONSULTATION REQUIREMENTS**

Community consultation has been undertaken as outlined in the New Car Share Application – Community Engagement Strategy (refer to attachment A)

Relates to ECM No: 9052406, 9052849, 9052833, 9052890, 9052863

Standard or Guideline Used: New Car Share Application – Community Engagement Strategy,

North Sydney Car Share Policy, RMS TTD 2018/001

Signs & Lines Priority: 2

**Precinct and Ward:** Lavender Bay precinct, Central Business District precinct, Stanton precinct, Holterman precinct. Cammeraygal Ward, St Leonards Ward."[Precinct], [Ward]"

Impact on Bicycles: Nil Impact on Pedestrians: Nil

**Impact on Parking:** The recommendation results in the conversion of five (5) parking spaces

to dedicated car share spaces.

### **DETAIL**

Consultation

Operators seeking to install a new vehicle space are first required to submit an application to Council that contains information relevant to the criteria set out in the North Sydney Car Share Policy, and a justification for the installation of the space. Applications are subject to a fee.

The application process includes the following steps:

### The steps involved include:

- 1. Application the Car Share Provider applies to Council for a new car share parking location. Council Traffic & Transport Operation staff assess the application, and if they do not conflict with the North Sydney Car Share Policy, TfNSW car share guidelines, or any other of Council's Policies, a sign is installed seeking community feedback on the proposal.
- 2. Community Consultation the community is provided opportunity to comment on the proposed car share location. The consultation period is 14 days and personally addressed letters are mailed to residents and businesses within 100 metres of each location, and signage installed at the site.

# PROPOSED CAR SHARE INSTALLATION

This location has been suggested as a location for a Car Share Space. Feedback closes ......

This matter will be discussed at the next meeting of the North Sydney Traffic Committee.

For further information or should you wish to make a submission, please visit Council's Your Say website:

yoursay.northsydney.nsw.gov.au OR

Contact Council's Traffic and Transport Operations on 9936 8100





Image 1. Example of signage installed at proposed car share parking location

- 3. Traffic Committee the application and outcomes from the community consultation are taken to the North Sydney Traffic Committee for consideration.
- 4. Installation if approved, signage indicating the changes to parking are exhibited for 14 days after which car share parking signage is installed.

# CAR SHARE INSTALLATION

This location has been approved as a location for a Car Share Space.

This matter was discussed and approved at the North Sydney Traffic Committee.

For further information regarding Car Share in North Sydney, please visit Council's Your Say website:

yoursay.northsydney.nsw.gov.au OR

To disucss, contact Council's Traffic and Transport Operations on 9936 8100



Image 2. Example of signage installed at approved car share parking location

Consultation on the proposed three dedicated car share spaces in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest was conducted in November 2022. as outlined in the New Car Share Application – Community Engagement Strategy (refer to Attachment A for further details).

The spaces proposed do not conflict with any key technical standards or guidelines. Submissions indicated medium to high support for Blue, Dension, Oxley and Angelo Street, and for Dind Street there were significantly more people opposing the dedicated bay than supported. The main concern was the loss of parking.

Contrary to submission concerns, car share has been shown to reduce the strain on parking. In a recent annual survey of GoGet, customers in North Sydney reported a steep decrease in car ownership after residents joined. The survey found that 30% of members had given up a car entirely since joining GoGet, combined with customers that already did not own a car, this results in 63% of North Sydney members no longer owning a car. These members reported that joining cars share enabled them to defer the purchase of a car.

GoGet has provided further local data on the positive impact car share has on parking specific to each location. This is outlined in the submissions report.

### **Feedback Summary**

Feedback on applications received for car share parking locations in Angelo Street, Blue Street, Denison Street, North Sydney, Dind Street, Milsons Point, and Oxley Street, Crows Nest closed 14 November 2022. In accordance with Council's Car Share Policy, before finalising assessment of each application, community feedback is sought on the proposed car share locations via notification of each proposal.

### **Angelo Street**

A total of 6 submissions were received for the dedicated Car Share on Angelo Street. Of these submissions, 4 (67%) submissions supported the location. Convenience and improved access for older adults were the main themes.

Of the 2 (33%) submissions that opposed the location, preference for motorbike parking and noise pollution were the main themes.

The submission that raised noise pollution as a problem had mistaken Car Share as a Taxi Rank.

A response (by theme) to the submissions opposing the location is provided below:

No.	Issues	Response			
1	Motorbi	This submission requested that the proposed Car Share Bay be used for			
	ke	Motorbike parking.			
	Parking	There are currently 37 motorbike parking spaces within 150 metres of			
		the proposed site, including 8 motorbike parking spaces immediately			
		adjacent to the proposed site.			
		Council does encourage residents to nominate potentially redundant No			
		Parking and No Stopping zones for investigation through the feedback			
		form on Council's website			
		Further information regarding Motorbike Parking is available in the			
		Motorbike and Scooter Parking Strategy and Action Plan (Attachment B)			
1	Noise	This submission mistook the Car Share location as a Taxi/Ride Share			
	complain	rank. Concern was raised about the noise made by customers late at			
	t	night waiting for a ride share.			
		Noise from Car Share members would be minimal, particularly late at			
		night. Majority of Car Share bookings are made during the day.			

### **Blue Street**

A total of 3 submissions were received for the dedicated Car Share on Blue Street. Of these submissions, 2 (66%) submissions that supported the location, reducing car ownership was the main theme.

Of the 1 (33%) submission that supported the location, interference with a construction site was the main concern.

A response to the submitter that did not support the location is provided below:

No.	Issues	Response	
1	Interferenc	There is currently a construction site on the corner of William Street	
	e with	and Blue Street, North Sydney. The proposed Car Share parking	
	Constructio	would not interfere with any work zones and parking is still	
	n site	available at the proposed Car Share site.	
		In consultation with GoGet, it has been decided to recommend	
		approving the dedicated bay however wait until restoration of the	
		pavement by the developer is complete before installation. This is	
		planned for February-March 2023.	

### **Denison Street**

A total of 5 submissions were received for the dedicated Car Share on Denison Street. Of these submissions, 4 (80%) submissions supported the proposal. Convenience and affordability were the main themes.

Of the 1 (20%) submission that opposed the location, parking and equity were the main themes.

A response (by theme) to the submissions opposing the location is provided below:

No.	Issues	Response	
1	Parkin g	Council understand that parking is a concern for residents and difficulty locating parking can cause issues with access. On-street parking is a finite resource and additional on-street parking is rarely possible. This means Council must use this resource more efficiently and Car Share is one tool that can free up on-street parking. Car Share can have significant benefits for residents in alleviating parking capacity issues.  For the Denison Street application, GoGet provided 3 consecutive months data for the nearest GoGet Bay, Walker Street North Sydney. The Walker Street data included  June – 33 trips, 7-hour average per day, 226 hours total  July – 31 trips, 11-hour average per day, 254 hours total  August – 34 trips, 8-hour average per day, 254 hours total  In June 2020, GoGet data suggested that 801 metres of on-street parking has been saved in North Sydney due to the carshare induced deferral of vehicle purchases, which would have otherwise been parked on local streets.	
1	Equity	Equitable access is a major consideration for Council with any change to parking.  Providing dedicated bays for Car Share is important as they represent parking for a large section of the community. There are 822 GoGet members within 250 metres (or approximately 3 minutes' walk) of the Denison Street parking bay. Council must weigh up the benefit between free access to residents, tourists and visitors, and dedicated access to potentially 822 residents.  Overall, the net benefit would suggest dedicated bays improve the experience for members (generally residents not visitors) and therefore encourages use. This then leads to reduced need for private vehicles and more on-street parking.	

### **Dind Street**

A total of 11 submissions were received for the dedicated Car Share on Dind Street. Of these submissions, 4 (36%) submissions supported the proposal. Reducing car ownership, environmental sustainability and reducing strain on parking were the main themes.

Of the 7 (64%) submissions that opposed the location, parking and noise pollution were the main themes.

A response (by theme) to the submissions opposing the location is provided below:

No.	Issues	Response
6	Parking	Council understand that parking is a concern for residents and difficulty locating parking can cause issues with access. On-street parking is a finite resource and additional on-street parking is rarely possible. This means Council must use this resource more efficiently and Car Share is one tool that can free up on-street parking. Car Share can have significant benefits for residents in alleviating parking capacity issues. For the Dind Street application, GoGet provided 3 consecutive months data for the nearest GoGet Bay, Milsons Point - Dind Street near Alfred Street South. The data included  • June – 37 trips, 6-hour average per day, 181 hours total  • July – 31 trips, 4-hour average per day, 131 hours total  • August – 34 trips, 4-hour average per day, 146 hours total  In June 2020, GoGet data suggested that 298 metres of on-street parking has been saved in Milsons Point due to the carshare induced deferral of vehicle purchases, which would have otherwise been parked on local streets.
1	Noise pollutio n	This submission mistook the Car Share location as a Taxi/Ride Share rank. Concern was raised about the noise made by customers late at night waiting for a ride share.  Noise from Car Share members would be minimal, particularly late at night. Majority of Car Share bookings are made during the day.

# **Oxley Street**

A total of 2 submissions were received for the dedicated Car Share on Angelo Street.

Of these submissions, 2 (100%) submissions supported the location. Density, environmental sustainability, and affordability were the main themes.

No response is required due to unanimous support.

### **COMMUNITY ENGAGEMENT STRATEGY**

# **New Car Share Applications**



Prepared June 2022 Amended September 2022

Councils are required under the *Local Government Act 1993* to inform the community of issues that potentially affect their way of life. North Sydney Council is committed both in principle and in practice, to engaging on matters affecting the North Sydney community.

The purpose of this project-specific Community Engagement Strategy is to outline the ways stakeholders can be involved in the decision-making process. Community engagement opportunities will be provided across a range of 'engagement' levels.

### 1. Introduction

Council is committed to engaging the community to ensure adequate opportunity is provided for feedback on proposed car share locations. Council supports car share schemes as they are identified in the *North Sydney Community Plan* and the *North Sydney Transport Strategy* (2018) to encourage sustainable transport. Car share schemes provide potential benefits to the community, not just scheme members as they can:

- reduce the level of private vehicle ownership
- reduce pressure on parking, as one car/space can cater for many residents
- reduce traffic congestion caused by traffic 'cruising' to find parking.

Car share schemes also provide a transport option for residents and community members who don't or can't own their own car.

### 1.1 Council's Community Engagement Protocol

This strategy has been prepared in accordance with Council's *Community Engagement Protocol*. The Protocol is used to determine the level of 'level(s) of impact' applicable to this project/decision (proposal). This proposal has been determined as:

LEVEL OF IMPACT	LEVEL OF ENGAGEMENT
Low/Local	Inform and Consult

### 1.2 Relevant Legislation, Policies and Plans

This Engagement Strategy is informed by the following Council policies and plans:

- Car Share Policy
- Community Strategic Plan
- Compliance and Enforcement Policy
- Parking Management and Enforcement Policy
- Resident Parking Permit Policy

Document Set ID: 9056530 Version: 1, Version Date: 27/09/2022 Council used the framework shown below in Table 1.1 to select the most appropriate level(s) of engagement for this proposal to ensure an appropriate range of engagement levels and methods were offered:

LEVEL	DESCRIPTION		
Inform	Providing balanced and objective information to help the community understand		
	problems, alternatives, opportunities and/or solutions		
Consult	Obtain public feedback on alternatives and/or decisions		
Involve	Work directly with the community throughout the process to ensure that public		
	concerns and aspirations are consistently understood and considered		
Collaborate	Partner with the public in each aspect of the decision including the development of		
	alternatives and identification of the preferred solution		

Table 1.1 Derived from the IAP2 Public Participation Spectrum

### 2. Background

Council's Car Share Policy was introduced in August 2005. In August 2013, Council adopted a new process for notifying the community of proposed car share installation prior to the matter being referred to the North Sydney Traffic Committee. The Policy was amended in September 2022 to include the requirement that once the application fee is received, that Council notifies the community of the proposed location. The period for providing feedback on each proposed location is a minimum of two (2) weeks i.e. no less than 14 days.

Initially, Council's Traffic & Transport Operations Department assess the appropriateness of a proposed car share location. If the location is deemed appropriate, a temporary sign is placed next to the proposed location indicating that the location is being considered for a car share parking space. Notification letters are distributed to residents and businesses within a 100m radius and opportunities for feedback are provided through letter, email and online form hosted via the Your Say North Sydney webpage.

The signs are installed at each location for a minimum of two (2) weeks. An example of the sign is provided below.

# PROPOSED CAR SHARE INSTALLATION

This location has been suggested as a location for a Car Share Space. Feedback closes .....

This matter will be discussed at the next meeting of the North Sydney Traffic Committee.

For further information or should you wish to make a submission, please visit Council's Your Say website:

yoursay.northsydney.nsw.gov.au OR



Contact Council's Traffic and Transport Operations on 9936 8100

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# New Car Share Applications Community Engagement Strategy

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### 3. Community Engagement Strategy

### 3.1 Who are our community stakeholders?

The Engagement Strategy identifies the following groups to engage with in the local community:

- residents
- businesses
- related car share provider (applicant).

### 3.2 Key Communication Messages

Per application received:

- Car share benefits the community as it can reduce the level of private vehicle ownership, reduce pressure on parking as one car/space can cater for many residents, and reduce traffic congestion caused by traffic 'cruising' to find parking. Car share schemes also provide a transport option for residents and community members who don't or can't own their own car.
- The community will be notified of each new car share application, giving a minimum of 14 days to provide feedback on the proposal.
- All feedback received will be collated and analysed and used to inform the
  recommendation. A recommendation to proceed (or not) with the car share location
  will be reported to the Traffic Committee. Approval of a car share location occurs
  after the Traffic Committee has approved the location and minutes of the Traffic
  Committee meeting have been reported to Council.
- The car share provider will be informed whether their application has been successful, and an invoice issued for the signage fee.
- Signage indicating the parking changes will be installed for a minimum 14 days before the car share signage is installed.

### 3.3 Assessment and Notification Process

The following table outlines the assessment process per application. Stakeholder engagement will occur as noted at Step 2.

STEP	DESCRIPTION	
1. Car Share	A car share provider applies to Council via the Sustainable Transport Project	
Provider Application	Coordinator.	
	Applications for new car share spaces must demonstrate that there are multiple potential users in the immediate area, and that there are no	
	existing alternatives that service this demand.	

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# **New Car Share Applications Community Engagement Strategy**

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STEP	DESCRIPTION			
	An invoice is issued to the car share provider to pay the application fee as			
	outlined in Council's annual <u>Fees &amp; Charges Schedule</u> .			
2. Community	Once the application fee is received, Council notifies stakeholders and seeks			
Consultation	feedback on the appropriateness of the proposed location. The feedback is			
	not voting as such, but it will assist in determining support for the proposed car share locations.			
	cai strate locations.			
	The feedback period will be for a minimum of two (2) weeks (i.e. 14 days).			
	Signage is erected at the site outlining the proposal to install car share			
	parking, and letters are sent to residents and businesses within a 100m			
	radius of the site.			
	Feedback can be provided via:			
	email to <u>yoursay@northsydney.nsw.gov.au</u> (include reference to			
	location)			
	letter posted to North Sydney Council, PO Box 12, North Sydney			
	NSW 2059 (include reference to location)			
	online feedback form via the Your Say North Sydney site			
	Council's Sustainable Transport Project Coordinator is available via phone			
	call, however formal submissions must be made through the above			
	methods.			
	After the notification period has ended, submissions are collated and			
3. Traffic Committee	assessed, and submissions summary is prepared.			
Approval	If the site is deemed appropriate for car share, a recommendation to install the car share space is reported to the next available North Sydney Traffic			
προναί	Committee.			
	The Traffic Committee may:			
	approve the car share application and proceed with installation			
	<ul> <li>request further consultation to assess the need for the car share</li> </ul>			
	location; or			
	reject the car share application.			
	Submitters will be informed of the outcome. A temporary sign will also be			
	erected onsite a minimum of 14 days prior to the change in restriction,			
	advising that the parking restrictions at this location will change and the			
	signage will be replaced, indicating that this space will be reserved for car			
4.6:	share parking.			
4. Signage Fee	If the car share location is approved, the car share provider will be informed			
	and issued with an invoice for the installation of signage. After payment is received, Council's Sustainable Transport Project Coordinator submits a			
	Signage and Lines Instruction form to Council's Works Engineering			

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# New Car Share Applications Community Engagement Strategy

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STEP	DESCRIPTION	
	Department.	
5. Signage	The temporary signage at Step 3 will be replaced with the permanent new	
	sign stating the new restriction.	

The following methods will be used to notify and seek feedback on each proposal. Not listed in priority order.

METHOD	ENGAGEMENT LEVEL	PURPOSE
'Have Your Say' Web	Inform	Inform the community of the proposed car share location
Page		and provide ease of access to all information regarding
		the proposal. Includes FAQs.
Letterbox	Inform	Distributed to properties (residents and businesses)
Drop/Direct Letter		within a 100m radius of each application informing of the
		proposal and opportunity to provide feedback
Onsite Signage	Inform	Inform the general community of the proposed car share
		location and opportunity to provide feedback
eNewsletters -	Inform	Inform subscribers of the proposed car share location and
Council eNews,		opportunity to provide feedback
Business eNews,		
Precinct eNews		
Submissions	Consult	Free form feedback accepted by email or posted letter as
		well as via online form.

### 4. Opportunity Cost/Rationale

Engaging the community in this proposal may entail financial costs to Council to achieve a high-quality engagement process. If the process is robust, community ownership of the decisions made will ensure efficient outcomes. Insufficient or poor-quality engagement can result in poor long-term decisions requiring further resources to rectify. The aim of a high-quality community engagement process is to make sustainable decisions. The engagement process will help Council staff and/or Councillors to understand the related recommendations rationale.

### 5. Further Information

For further information contact Council's Max White, Sustainable Transport Project Coordinator, Traffic & Transport Operations Department:

Phone: 9936 8100

Email: <u>yoursay@northsydney.nsw.gov.au</u>
Website: www.northsydney.nsw.gov.au

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# MOTORBIKE & SCOOTER PARKING STRATEGY & ACTION PLAN

**NORTH SYDNEY COUNCIL** 



March 2019

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# Key Objectives

The North Sydney Council Transport Strategy (2017) aims to reduce the negative social, environmental and economic impacts that private vehicle usage has on the community.

While walking, cycling and public transport trips have a significantly greater benefit for the community, use of motorbikes and scooters by North Sydney residents, commuters and businesses is increasing, and is one alternative to the single occupancy motor vehicle which can help to reduce parking demand and offset some of the negative impacts. This strategy has been developed to review the current motorbike parking network and identify opportunities to continue to support motorbikes and scooters as an alternative form of travel.

The objectives of this strategy are to:

- Offset the number of single occupant car trips to North Sydney with motorbike trips
- Increase opportunities for motorbike parking through more efficient use of the available kerb space
- Increase the quantity of dedicated motorbike parking spaces over the next 10 years, particularly in and around the North Sydney CBD

# Motorbike Registrations in the North Sydney LGA

Motorbikes and scooters comprise 4.2% of all vehicles registered in the North Sydney LGA<sup>1</sup>. This is comparable to other North Shore and inner Sydney Council areas, and is within the median range (Figure 1).

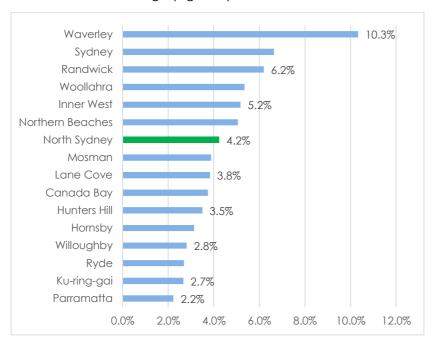


Figure 1 Proportion of motorbikes/scooters to total vehicle registrations based on LGA (2018)

<sup>&</sup>lt;sup>1</sup> RMS Registration Statistics as at 30 June 2018

There has been a steady yearly increase in the proportion of motorbikes and scooters to total vehicle registrations in the North Sydney LGA since 2000 as shown in Figure 2.

Localities in the North Sydney LGA with the highest proportion of registered motorbikes and scooters are Cremorne, Cremorne Point, Neutral Bay and Kurraba Point, with 5.0% of registered vehicles in these areas being motorbikes or scooters (Figure 3).

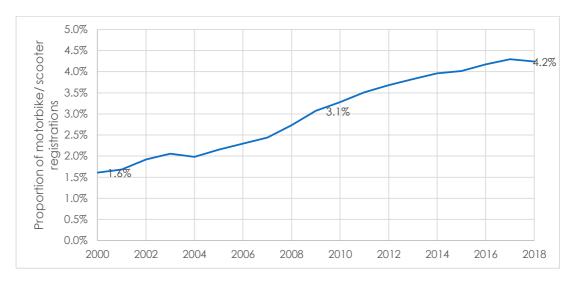


Figure 2 Motorbike/scooter registration trends in North Sydney LGA

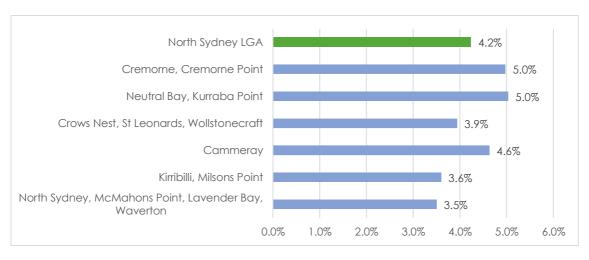


Figure 3 Proportion of motorbikes/scooters to total vehicle registrations based on locality (2018)

# Journeys to Work by Motorbike & Scooter

Motorbikes and scooter journeys make up 1.0% of all transport modes for journeys to workplaces in the North Sydney LGA, and 0.6% of all journeys to a workplace within the North Sydney LGA that originate from within the LGA are made by motorbike or scooter. While 14% of all journeys to workplaces within North Sydney LGA (all transport modes) originate from within the North Sydney LGA, only 8% of all motorbike and scooter journeys to a workplace within the North Sydney LGA originate from within the North Sydney LGA. The remaining 92% of motorbike/ scooter journeys originate from outside the LGA, with the majority of journeys originating from the North Shore (25%); Northern Beaches (17%) and East Sydney (14%) (Figure 4).<sup>2</sup>

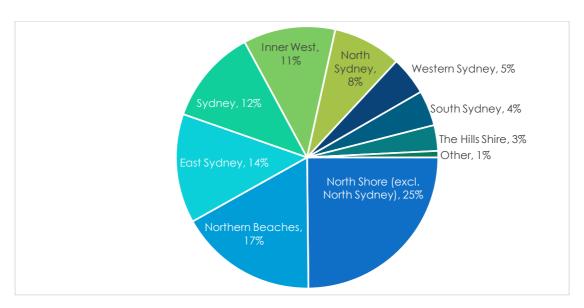


Figure 4 Origins of motorbike/scooter journeys to North Sydney LGA (2011)

<sup>&</sup>lt;sup>2</sup> Transport for NSW Journey to Work Data (2011)

Each day, this equates to approximately 757 commuters travelling by motorbike or scooter to the North Sydney Council area, including 693 travelling from outside the LGA. As shown in Figure 5, the vast majority of motorbike and scooter commuters travel to destinations near the North Sydney CBD. Elsewhere, there is a moderate concentration of motorbike and scooter users in Milsons Point, Crows Nest/ St Leonards, Waverton and Neutral Bay/ Cremorne.

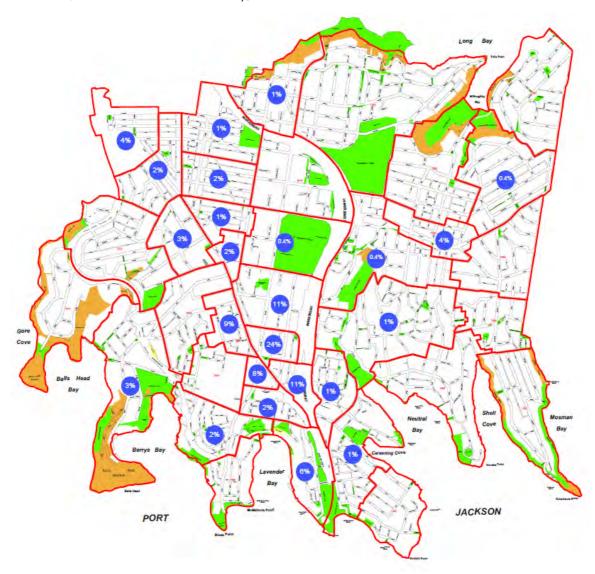


Figure 5 Journey to work destinations for motorbike and scooter commuters (2011)

### LATM Consultation 2016

During community engagement for the Local Area Traffic Management (LATM) Action Plan in 2016, a total of 16 submissions referred to motorbike parking were received, with 2 to 3 requests in each of the seven LATM zones. 5 submissions were concerned with noise from motorbikes.

6

# Existing Motorbike Parking Network

In August 2009 there were 214 motorbike parking spaces in the North Sydney LGA. As at September 2018, there are a total of 522 dedicated motorbike parking spaces throughout the North Sydney LGA.

Table 1 On-street motorbike parking supply and demand (September 2018)

Locality	No. motorbike spaces	Average Occupancy	Turnover (4 hours)
North Sydney CBD	280	75%	13%
St Leonards/Crows Nest	87	56%	25%
Cremorne/ Neutral Bay	74	26%	19%
Kirribilli/ Milsons Point	64	52%	7%
Other Areas	17	-	-
Total	522	64%	14%



Figure 6 Existing dedicated motorbike parking network (2018)

7

### Motorbike Parking Demand

Demand for motorbike parking generally consists of long-term (commuters, residents, local businesses) and short-term parking (couriers and visitors). The majority (86%) of motorbikes observed parking in North Sydney are parked for longer than 4 hours. Therefore, the greatest demand for dedicated motorbike parking is for long-term (all day) parking.

The greatest demand for motorbike parking is within the North Sydney CBD. Of the 280 spaces in the CBD, 29 spaces are unavailable during clearway times and therefore may not be desirable for long-term commuter parking. Figure 6 shows the relative supply, occupancy and turnover for motorbike parking, excluding those in clearways, in the CBD according to resident parking area boundaries. Generally, there is a higher demand for motorbike parking in areas close to the CBD centre.

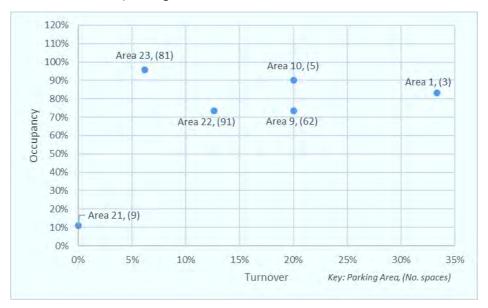


Figure 7 North Sydney CBD motorbike parking supply & demand (September 2018)

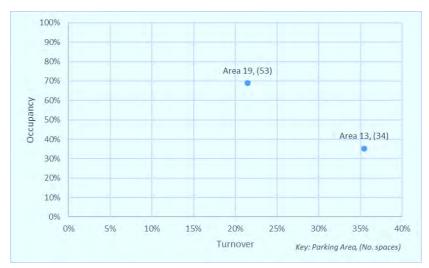


Figure 8 St Leonards & Crows Nest motorbike parking supply & demand (September 2018)

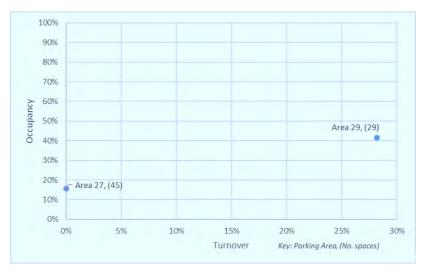


Figure 9 Neutral Bay/ Cremorne motorbike parking supply & demand (September 2018)

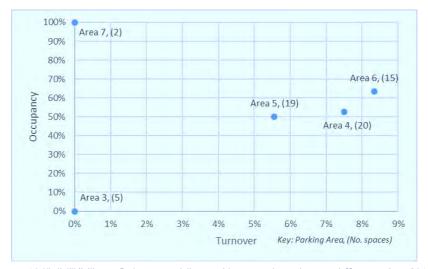


Figure 10 Kirribilli/Milsons Point motorbike parking supply & demand (September 2018)

# Resident Parking Permits

Eligible residents can apply for a resident parking permit for their motorbike or scooter under the Resident Parking Scheme. Eligibility requirements for motorbikes and scooters are the same as for other vehicles. To prevent damage, Council recommends using a holder similar to a motorbike registration holder to display the permit. As the vehicle registration number is listed on the permit, the permit is only valid for the specified motorbike or scooter and therefore risk of theft or misuse is low.

Council does not currently have a separate fee for motorbike parking permits, although motorbikes and scooters occupy a smaller footprint compared to standard vehicles. It is therefore recommended that Council introduce a new parking permit fee for motorbikes and scooters at a smaller proportion of the standard permit fee.

# **Unmetered Parking Areas**

Council doesn't generally mark parking bays in unmetered parking areas. Therefore, motorbikes and scooters can conveniently park in these areas and, as with other vehicles, are required to comply with the sign-posted time restrictions. In some of these areas Council has installed motorbike parking where the road space is too small for a car to park, such as in between driveways, in response to requests for more motorbike parking or to resolve parking compliance issues.

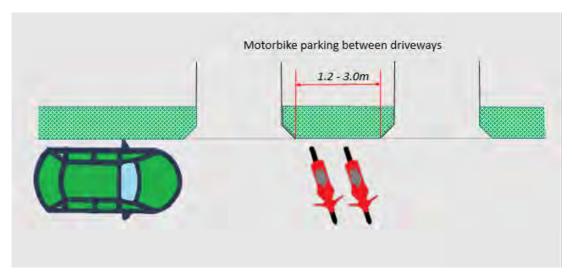


Figure 11 Motorbike parking between driveways

# Metered Parking Areas

North Sydney Council operates metered parking in areas where there is a need to encourage parking turnover to support the parking demand. Council uses Pay-and-Go meters which are pay by space and require the marking of individual bays, which are typically a minimum of 5.4-6.0 metres long.

While the City of Sydney allows free parking for motorbikes in ticket parking areas, provided that riders observe the time restrictions, such a scheme is not feasible in North Sydney Council due to the different operation of the parking meters. One of the benefits of North Sydney Council's parking meters is that they are ticketless and therefore the risk of tickets blowing away or being stolen from motorbikes is eliminated. Instead, bays are marked and the vehicle occupying the bay is required to pay the relevant fee. When marking parking bays at the standard minimum lengths, often there is a small amount of road space left over at the end. This small space as a matter of course is now dedicated to free, untimed motorbike parking.

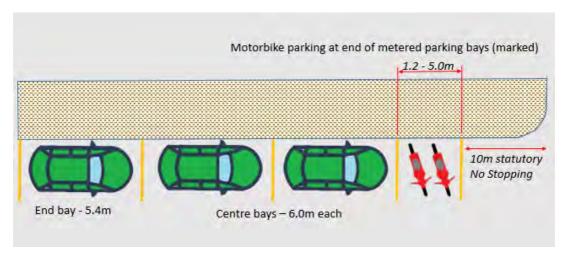


Figure 12 Motorbike parking bays adjacent to metered parking bays

Sometimes motorbike riders will park at the end of a bay to leave room for another car to park in the space, or multiple motorbikes will occupy a single bay. While this is usually done with good intentions, other motorists can have difficulty manoeuvring in and out of spaces due to the smaller available space. Under the NSW Road Rules (2014), in metered parking areas, a driver must not park in a metered parking space while any other vehicle is parked in the space, or in such a manner that any part of the vehicle lies over the markings for the space.



Figure 13 Motorbike parked at the end of a metered parking space

Council has installed parking sensors in the middle of metered parking bays which are integrated with the parking meters to improve turnover and parking management. Should motorbike riders wish to park in an empty metered parking bay, it is recommended that the motorbike is parked in the centre of the bay directly over the sensor, to prevent other vehicles from triggering the sensor and clearing the payment.

# Footpath Parking

Motorbikes and scooters are not permitted to park on the footpath under the NSW Road Rules (2014). Footpath parking should not be encouraged as it can impact on access for pedestrians due to the restricted width of many footpaths in North Sydney, and reduces the amenity of the streetscape due to clutter. Notwithstanding, there are a number of locations within the North Sydney CBD where motorbikes are observed parked in open areas adjacent to buildings, many of which are on private property. The continued expansion of the motorbike parking network and providing more publicly accessible information about formal motorbike parking locations may assist to alleviate this issue.

# Off-street Motorbike Parking

Council requires a minimum provision of 1 motorbike parking space per 10 car spaces in all new mixed use and non-residential developments under the North Sydney Development Control Plan (2013). This represents 9% of the parking provisions for those developments in recognition of the travel mode share of motorbikes. These rates support the motorbike commuters by providing dedicated parking at their place of work, and off-set the on-street motorbike parking demand.

Council owns and operates a number of public carparks. Designated motorbike parking is provided in Alexander Street and Holtermann Street carparks. There is some demand for motorbike parking in Ridge Street carpark, however there are no designated spaces.

Table 2 Off-street n	notorhike i	narking	supply	and	demand i	(Sentember	2018)
10016 2 011-31166111	TOTOTOTIVE I	vaikiiiq .	SUPPLY .	ana	uemana i	(SEDIETIDEI	2010)

Carpark Name	No. of marked spaces for motor cycles	No. motorbikes parked within designated motorbike spaces	No. motorbikes parked within car spaces	No. motorbikes parked within other areas of the carpark (eg. remnant areas adjacent to columns etc.)
Ridge Street Carpark, North Sydney	No Spaces	No Spaces	2	3
Alexander Street Carpark Crows Nest	8	2	0	0
Holtermann Street Carpark, Crows Nest	6	1	0	0

Parking occupancy data indicates that there is a lower utilisation of motorbike parking in Council's off-street parking areas compared to on-street. This is likely attributable to the relative cost of parking. Council does not currently have a separate fee for motorbikes in its off-street carparks. To encourage use of the existing off-street motorbike spaces, Council could consider the introduction of a reduced motorbike parking fee or free motorbike parking at its carparks. In addition, where there is capacity to accommodate motorbikes, Council could consider creation of dedicated motorbike parking bays within all carparks. To ensure minimal impact on car parking supply, these could be in unused areas of the carpark that don't impact on pedestrian or utilities access, but are of adequate size to accommodate one or more motorbikes.

# On-street parking opportunities and considerations

### Existing No Stopping & No Parking Areas

Council will sometimes install No Stopping restrictions that exceed the statutory No Stopping distances near intersections and pedestrian crossings, or in other locations where there are sight line issues mainly due to parking of large vehicles that obstruct sight lines at critical locations. Due to the lower height of motorbikes, in some locations it may be feasible to restrict the parking to motorbikes only instead of No Stopping restrictions where the zone exceeds the statutory distance.

Council invites members of the public to nominate potentially redundant No Parking and No Stopping zones for investigation through a feedback form on Council's website. Where these locations are identified, Council officers can consider if the zone may be suitable for motorbike parking, if it is not deemed suitable for general parking.

In addition, when Council receives new requests for parking to be removed due to sight issues and the request is supported, consideration can be given to the installation of motorbike parking in lieu of No Stopping or No Parking.

Parking is generally not permitted within the statutory 10 metres from an unsignalised intersection. The RMS may allow parking closer than 10 metres in accordance with their technical direction 2014/005 provided that it does not increase risk to road users. Requests for motorbike parking in such locations submitted to Council will be investigated on a case-by-case basis in accordance with the RMS technical direction.

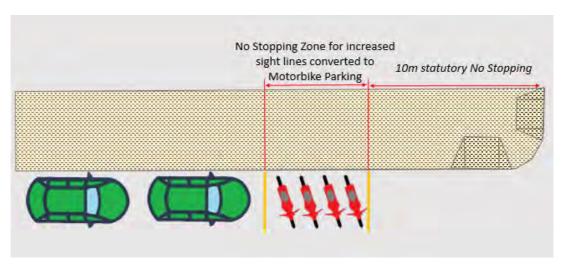


Figure 14 Conversion of No Stopping/ No Parking to Motorbike Parking

Where road widths are between 4.2 metres to 5.1 metres, they are generally not wide enough for a parking lane and travel lane, however may be suitable for motorbike parking if the motorbike is parked parallel to the kerb. Motorbike parking should only be considered in these situations if the cross fall is not too steep and traffic volumes are relatively low to prevent motorbikes from toppling or being knocked over. Motorbike parking areas will need to be delineated to maintain a minimum 3 metre travel lane.

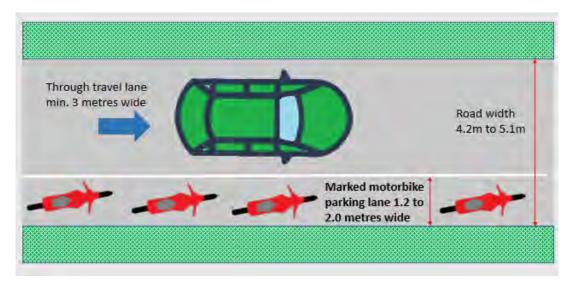


Figure 15 Motorbike parking on narrow roads

### Noise

Most objections to installation of motorbike parking in residential areas are related to noise. Some motorbikes may have modified exhaust systems which increase noise pollution. The Australian Design Rule 83/00 states the legal noise limits for vehicles manufactured from 2005. For older vehicles, the Protection of the Environment (Noise Control) Regulation 2017 specifies the prescribed noise levels.

Noise from individual vehicles is regulated by RMS, the police and the EPA. Noisy motor vehicle exhaust can be reported to the EPA.

When installing motorbike parking consideration is given to the demand for motorbike parking, gradient and condition of the road, available kerb space and proximity to residential properties.

### **Action Plan**

The following Action Plan has been developed with the objective of providing more opportunities for motorbike parking in North Sydney to support the existing and growing number of motorbikes and scooters in the area. Figure 16 shows the target dedicated motorbike parking network to be achieved through implementation of this strategy and action plan by 2028.

Table 3 Motorbike parking action plan

Ac	tion	Description	Timeframe
1.	Motorbike Parking Map	Provide online map of motorbike parking locations	2018/19
2.	Resident Motorbike Parking Permits	Introduce a new parking permit fee for motorbikes and scooters at a smaller proportion of the standard permit fee in recognition of the smaller footprint.	2019/20
3.	Areas between driveways	Designate areas between driveways that are between 1.2m-3m long as motorbike parking	Ongoing
4.	Metered Parking Areas - Marking bays	Designate kerb spaces which are too short for minimum car space length to motorbike parking	Ongoing
5.	Metered Parking Areas - Information	Provide online information about requirements and tips for motorbikes parking in metered parking areas	2018/19
6.	No Stopping & No Parking Areas	Investigate if potentially redundant No Stopping and No Parking zones can be converted to motorbike parking; or if new requests to remove parking due to sight issues are more suitable for motorbike parking	Ongoing
7.	Narrow Roads	Consider motorbike parking on road widths between 4.2m-5.1m where general parking is otherwise not achievable, provided that cross falls are suitable.	Ongoing
8.	Off-street parking	Introduction of a reduced parking rate or free parking for motorbikes at Council carparks	2019/20
9.	Off-street parking	Creation of dedicated motorbike parking bays at all Council carparks	2019/20
10.	North Sydney CBD	Continue to increase the amount of motorbike parking spaces particularly in Areas 23, 10 and 1 and 7; and in surrounding parking areas close to these boundaries (Parking Areas 22, 9 and 6).	Ongoing

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### Target Motorbike Parking Network (10 Year)

Figure 16 Target motorbike parking network - 2028

### Related Strategies and Policies

North Sydney Transport Strategy (2017)

North Sydney Integrated Traffic & Parking Strategy (2015)

North Sydney LATM Action Plans (2017)

North Sydney Resident Parking Permit Policy (2018)

RMS Technical Direction TDT 2004/02

Australian Standard AS2890.5 – On-street parking

Australian Standard AS2890.1 – Off-street car parking

### 6. Informal Items for Consideration

### 6.1. Standing Item - Pedestrian Safety

**AUTHOR:** Iman Mohammadi, Acting Manager Traffic and Transport Operations

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

**ATTACHMENTS: Nil** 

### **PURPOSE:**

To provide a report to the Committee on current pedestrian safety matters and projects, and their current status.

### **EXECUTIVE SUMMARY:**

At the 530th Traffic Committee meeting on 7 February 2020, it was recommended that pedestrian safety be added to the agenda as a standing item. A list of current pedestrian safety standing items and their current status is attached.

### **FINANCIAL IMPLICATIONS:**

There are no financial implications arising directly from this report.

### **RECOMMENDATION:**

1. THAT the information concerning Standing Item - Pedestrian Safety be received.

### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet community needs
- 2.3 Sustainable transport is encouraged

### **BACKGROUND**

At the 530th Traffic Committee meeting on 7 February 2020 it was recommended that pedestrian safety be added to the agenda as a standing item.

### **CONSULTATION REQUIREMENTS**

Community engagement is not required.

Relates to ECM No: N/A

Standard or Guideline Used: N/A

Signs & Lines Priority: N/A

Precinct and Ward: All Precincts, All Wards

Impact on Bicycles: Impacts on cyclists will be assessed for individual projects when they are

reported to the Committee in detail.

**Impact on Pedestrians:** This report highlights current projects that benefit pedestrians

Impact on Parking: Impacts on parking will be assessed for individual projects when they are

reported to the Committee in detail.

### **DETAIL**

The table below has the current status of projects that relate to pedestrian safety.

### 6.2. Standing Item - Blues Point Road - Vehicle Noise & Traffic Issues

**AUTHOR:** Iman Mohammadi, Acting Manager Traffic and Transport Operations

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

### **ATTACHMENTS:**

1. Attach Blues Point Road Table 1 Summary of previous Traffic Committ [6.2.1 - 3 pages]

### **PURPOSE:**

The purpose of this report is to provide an update on previous Council resolutions in regard to traffic management in Blues Point Road, McMahons Point.

### **EXECUTIVE SUMMARY:**

At the Traffic Committee meeting on 19 March 2021, it was recommended that the matter of vehicle noise and traffic issues in Blues Point Road, McMahons Point be kept as a standing item at the Traffic Committee meetings.

This report provides an update on previous Council resolutions in relation to this matter.

### FINANCIAL IMPLICATIONS:

Financial implications will be outlined for any proposed measures prior to the matter being considered by Council for adoption.

### **RECOMMENDATION:**

**1. THAT** the updates concerning Standing Item - Blues Point Road – Vehicle Noise & Traffic Issues be received.

### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.4 Improved traffic and parking management

### **BACKGROUND**

A petition was tabled at the Traffic Committee meeting on 12 June 2020 from residents of McMahons Point concerning vehicle noise, illegal parking and street racing in Blues Point Road near Blues Point Reserve. Council has received representations concerning this issue since that time and the matter has been considered by the Traffic Committee on numerous occasions since then. A report was considered at the Traffic Committee meeting on 5 February 2021 where the Traffic Committee recommended a number of interventions for further investigation.

At the Traffic Committee meeting on 19 March 2021, it was recommended that the matter of vehicle noise and traffic issues in Blues Point Road, McMahons Point be kept as a standing item at the Traffic Committee meetings.

### **CONSULTATION REQUIREMENTS**

Community engagement will be undertaken in accordance with Council's Community Engagement Protocol.

Relates to ECM No: 8525770; 8446599; 8272680

Standard or Guideline Used: Austroads Guide to Traffic Management Part 8: Local Street

Management

Signs & Lines Priority: N/A

Precinct and Ward: Lavender Bay, Wollstonecraft

Impact on Bicycles: Nil
Impact on Pedestrians: Nil

**Impact on Parking:** Impacts as outlined in reports.

### **DETAIL**

The list of Council resolutions relating to Blues Point Road traffic management and latest updates since the previous Traffic Committee meeting is attached.

Table 1 Summary of previous Traffic Committee recommendations and Council resolutions

Traffic Committee Recommendation / Council Resolution	Status
Traffic Committee: 5-Feb-2021 / Council Meeting: 22-Feb-2021	
https://www.northsydney.nsw.gov.au/Council_Meetings/Meetings/Committees/2	<u> Traffic_Committee/2021/5_February_2021</u>
1. THAT Council consults with the affected community with regard to the	Consultation was undertaken between 4 May to 6 June 2021. The
speed cushion traffic calming scheme for Blues Point Road between Princes	community engagement outcomes are detailed in the report to
Street and Blues Point Reserve as shown in the attached plans. (4.3)	the <u>Traffic Committee 23 July 2021.</u>
2. THAT Council request police enforcement of excessive noise from	Police enforcement requested through discussions at the Traffic
vehicles, illegal parking and street racing as raised by local residents,	Committee
particularly on Friday and Saturday evenings between 9pm and 4am. (4.3)	
3. THAT Council request TfNSW install a speed camera in Blues Point	Online request submitted through the Safer NSW website on
Road between East Crescent Street and Blues Point Reserve. (4.3)	15/4/21
4. THAT the traffic calming proposal be included in any funding	Council will continue to seek funding opportunities for both
applications for the McMahons Point (Blues Point Road) Public Domain	projects.
Upgrade Masterplan and vice versa. (4.3)	
<b>5. THA</b> T a site inspection be held ASAP with the Mayor, Councillor Keen,	A site meeting was held on 18 March 2021.
the Director Open Space and Environmental Services and Manager Traffic	
& Parking to determine:	
a) where new line marking can be painted to clearly delineate legal parking	
spaces eastern side of Blues Point Road;	
b) how signage can be made more effective and efficient;	
c) where extra lighting can be installed.	
d) where short term parking can be provided (4.3)	
<b>6. THAT</b> the Committee give in principle approval for CCTV on Blues	Investigations continuing. Blues Point Road closed in
Point Road and report to next Traffic Committee on how these measures can	association with Sydney Metro works for approx 3 months from
proceed. (4.3)	August 2021 & current public health orders prohibit gatherings.
	Will review the situation after November 2021.
Traffic Committee: 19-Mar-2021 / Council Meeting: 26-Apr-2021	
https://www.northsydney.nsw.gov.au/Council_Meetings/Meetings/Committees/2	Traffic_Committee/2021/19_March_2021
<b>THAT</b> Blues Point Road be kept as a standing item on the Agenda. (7.9)	Standing item added from 30 April 2021 meeting onwards.

Traffic Committee Recommendation / Council Resolution	Status
Traffic Committee: 30-Apr-2021 / Council Meeting: 24-May-2021	
https://www.northsydney.nsw.gov.au/Council_Meetings/Meetings/Committees/	Traffic_Committee/2021/30_April_2021
1. THAT the updates concerning Standing Item - Blues Point Road -	For noting.
Vehicle Noise & Traffic Issues be received. (5.4)	
<b>2. THAT</b> line marking be reinstated urgently to clearly delineate the 4 angle	Postponed due to Sydney Metro occupation of Blues Point Road.
parking spots at the end of Blues Point Road. (5.4)	Review after November 2021.
<b>3. THAT</b> urgent investigation be undertaken to improve the lighting in the	A lighting consultant will be engaged to assess lighting levels at
same vicinity at the end of Blues Point Road. (5.4)	this location and advise Council on proposed lighting. This has
	been postponed due to Sydney Metro occupation of Blues Point
	Road. Review after November 2021.
<b>4. THAT</b> signage at the end of Blues point Road be reviewed with the aim	To be actioned
to make it clearer and more effective. (5.4)	
<b>5. THAT</b> in response to residents concerns, Council fast-track the	Implications outlined in report to the Traffic Committee 23 July
implementation of the 40KM/hr HPAA initiatives to ensure traffic speed and	2021.
calming on Blues Point Road can be addressed.	
Traffic Committee: 11-Jun-2021 / Council Meeting: 28-Jun-2021	
https://www.northsydney.nsw.gov.au/Council_Meetings/Meetings/Committees/	
<b>1. THAT</b> the updates concerning Standing Item - Blues Point Road –	For noting.
Vehicle Noise & Traffic Issues be received.	
<b>2. THAT</b> a letter be sent to Felicity O'Brien giving her an update on Blues	Email sent 19/7/21
Point Road and thank her for her ongoing involvement and advocating on	
behalf of residents on Blues Point Road.	
Traffic Committee: 23-Jul -2021 / Council Meeting: 23-Aug-2021	
https://www.northsydney.nsw.gov.au/Council_Meetings/Meetings/Committees/	
<b>5. THAT</b> that Council apply to TfNSW for a 40km/h speed zone on Blues	To be actioned.
Point Road between Lavender Street and Blues Point Reserve. The scheme	
should incorporate the traffic and pedestrian upgrades identified in the	
McMahons Point (Blues Point Road) Public Domain Upgrade Masterplan,	
and as minimal use of raised flat top thresholds as possible between Princes	

Traffic Committee Recommendation / Council Resolution	Status
Street and Blues Point Reserve to address the TfNSW criteria for the	
proposed 40km/h speed zone. (5.3)	
<b>6. THAT</b> the raised flat top threshold be used instead of speed cushions.	
(5.3)	
<b>7. THAT</b> if the scheme cannot be implemented with a maximum of two	
raised flat top thresholds, then the matter be brought back to the Committee.	
(5.3)	
<b>8. THAT</b> following discussions with TfNSW on the proposed scheme, a	
report be brought back to Council outlining the proposed scheme, the cost	
implications of the proposed scheme, potential funding, proposed schedule	
and details of further community engagement if required. (5.3)	
<b>12. THAT</b> the application for Blues Point Road 40km/h speed zone ensures	
that there is no loss of parking. (5.3)	
<b>10. THAT</b> Council be included in the consultation process for the	Referred to Council's Director Open Space and Environment.
beautification works in Blues Point Reserve following the completion of the	
Metro works. (5.3)	
11. THAT Council seeks clarification on the timeline and status of the	See Standing Item – Sydney Metro – Project Update
Metro works in the North Sydney LGA. (5.3)	
<b>13. THAT</b> the previous resolution of the 30th April Traffic Committee (Item	See Resolution No. 2 TC 30/4/21
5.4) regarding line marking and signage on Blues Point Road be prioritised	
(subject to Public Health Orders). (5.3)	Postponed due to Sydney Metro occupation of Blues Point Road.
	Review after November 2021.

### 6.3. Standing Item - Sydney Metro - Project Update

**AUTHOR:** Iman Mohammadi, Acting Manager, Traffic and Transport Operations

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

**ATTACHMENTS: Nil** 

### **PURPOSE:**

The purpose of this report is to update the North Sydney Traffic Committee on the current status of the Metro City & South-West (Metro) project and upcoming works affecting local roads.

Updates are also provided on the Sydney Metro website at <a href="https://www.sydneymetro.info/">https://www.sydneymetro.info/</a>

### **EXECUTIVE SUMMARY:**

Consent for the Metro City & South-West (Metro) project was granted by the Department of Planning and Environment on 9 January 2017. The consent can be viewed in full at <a href="https://www.majorprojects.planning.nsw.gov.au">www.majorprojects.planning.nsw.gov.au</a>.

The project will deliver new railway infrastructure for Sydney, including two new Metro stations within the North Sydney Local Government Area - at Crows Nest and Victoria Cross (North Sydney Centre). Construction commenced in early 2017, with train operations expected to be underway by 2024.

In accordance with the various conditions of consent, a Traffic and Transport Liaison Group (TTLG) has been established to inform traffic and transport measures during construction and operation of the project. The TTLG is chaired by the Sydney Coordination Office (SCO) and comprises representatives from the relevant Road Authorities, which includes North Sydney Council. The TTLG meets monthly and a smaller group of representatives known as the Traffic Control Group (TCG) meets weekly to discuss impending construction-related traffic management matters.

The Construction Traffic Management Plans (CTMPs) must be developed in consultation with the TTLG. TfNSW is the approval authority for the CTMPs, following endorsement by the SCO.

### **FINANCIAL IMPLICATIONS:**

There are no direct financial implications arising from this report.

### **RECOMMENDATION:**

**1. THAT** the information concerning Sydney Metro City & South-West Construction Update be received.

### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet community needs
- 2.4 Improved traffic and parking management
- 5. Our Civic Leadership
- 5.2 Council is well governed and customer focused
- 5.3 Community is informed and consulted

### **BACKGROUND**

Consent for the Metro City & South-West (Metro) project was granted by the Department of Planning and Environment on 9 January 2017. The consent can be viewed in full at <a href="https://www.majorprojects.planning.nsw.gov.au">www.majorprojects.planning.nsw.gov.au</a>.

The project will deliver new railway infrastructure for Sydney, including two new Metro stations within the North Sydney Local Government Area - at Crows Nest and Victoria Cross (North Sydney Centre). Construction commenced in early 2017, with train operations expected to be underway by 2024.

### **CONSULTATION REQUIREMENTS**

As this is a state government project, Transport for NSW are responsible for all community engagement relating to the project.

### **DETAIL**

Relates to ECM No: N/A

Standard or Guideline Used: N/A

Signs & Lines Priority: N/A

Precinct and Ward: Various precincts, St Leonards & Cammeraygal Wards

Impact on Bicycles: Local cycling access maintained and managed through traffic guidance

schemes

**Impact on Pedestrians:** Local pedestrian access may be impacted adjacent to and around the Sydney Metro work sites and managed through traffic guidance schemes.

**Impact on Parking:** Parking adjacent to each construction site has been removed under applications throughout the project to facilitate construction.

There are four (4) construction sites within the North Sydney LGA associated with the Metro project.

- 1. Victoria Cross Station (VC2) includes 155-189 Miller Street bounded by Miller Street, Berry Street and Denison Street.
- 2. Victoria Cross North (VC1) —site for the services building and additional access point at 52 McLaren Street (vacant site on northern corner of Miller Street and McLaren Street intersection).
- 3. **Crows Nest Station (CN)** includes 497-521 Pacific Highway bounded by Pacific Highway, Oxley Street, Clarke Lane and Hume Street; 14 Clarke Street (Beaurepaires site); and 477-495 Pacific Highway bounded by Pacific Highway, Hume Street and Clarke Lane.
- 4. **Blues Point Reserve (BP)** Temporary construction site, including creation of a shaft for the delivery and extraction of tunnel boring equipment.

The City & Southwest (Chatswood to Sydenham) project has been split into stages. Each stage is subject to separate contracts and may be undertaken by different contractors. An indicative timeline for the full City & Southwest portion is provided below.

### Construction activities Indicative construction timeframe 2017 2019 2020 2021 2022 2023 2024 Early works Tunnel construction Station excavation and structual works Services facility excavation and structural works Tunnel fit out Station construction and fit Services facility construction and fit out Testing and commissioning

### Indicative timeline

Source: Sydney Metro website 26/5/17

Works at each site are currently at station construction/ fit out and linewide trackworks. The key activities are summarised below.

### Update on sites within North Sydney Council area

### **Victoria Cross South**

### Vic Cross – Construction Updates

Excavation works, formwork steel fitting, deliveries, concrete pouring. Installation of hoardings, site accommodation and tower cranes on Miller Street frontage. Deliveries via Miller Street Work Zone.

Miller Street – major stormwater upgrade works located within southbound, establishment of one-way contra flow – staged night works from March 2022 until first week of May (approx. 4 weeks total). This works is now complete and it is anticipated that further Stormwater works to be undertaken in Denison Street in July 2022 with partial closure of Denison Street and conversion of street to one way traffic for approximately 6-8 weeks

### **Victoria Cross North**

### Vic Cross – Construction Updates

Temporary fencing for the McLaren St footpath closure and occupation of parking spaces for pedestrian access during installation of B-Class scaffold in McLaren Street, east of Miller Street.

### **Crows Nest Station**

### **Crows Nest – Construction Updates**

Deliveries occurring from Pacific Highway "logistics lane" – footpath occupation - pedestrians diverted to western side of Pacific Highway. Some concrete pours occurring from Clarke Lane.

Hume Street fully closed to traffic between Pacific Highway and Clarke Lane until 31 December.

Once Hume Street demolition works commence, 12m of footpath from the end of the site towards North will be closed to store construction materials and the remaining will be used for logistics deliveries as per approved ROL from TMC. This arrangement is proposed for 4 months with the provision of B-Class Hoarding to maintain safe pedestrian access.

### **Blues Point**

### Blues Point – Construction Updates

DPIE granted modification for continued use of Blues Point site for additional 12 months from December 2020 for linewide track fitout.

Existing parking spaces at Blues Point Road have been temporarily removed and Blues Point Road was closed to traffic at the reserve to enable commencement of the reconfiguration of Blues Point from Henry Lawson Avenue to the reserve. These works were expected to be carried out from 22 May till 30 Sep 2022 with some time extensions due to unexpected delays.



## 6.4. Standing Item - Western Harbour Tunnel & Warringah Freeway Upgrade

**AUTHOR:** Iman Mohammadi, Acting Manager Traffic and Transport Operations

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

**ATTACHMENTS: Nil** 

### **PURPOSE:**

The purpose of this report is to provide an update on current works and impacts associated with the Transport for NSW Western Harbour Tunnel and Warringah Freeway Upgrade project (SSI 8863).

### **EXECUTIVE SUMMARY:**

The Western Harbour Tunnel and Warringah Freeway Upgrade project SSI 8863 was approved by the Minister for Planning and Public Spaces on 21 January 2021. The project is being undertaken by Transport for NSW.

Warringah Freeway Upgrade Early Works commenced in April 2021 and impact on a number of Council roads adjacent to and alongside the Warringah Freeway. Transport for NSW has exercised functions of a roads authority under the Roads Act 1993 for those roads.

This report provides a high-level overview of the current work sites and summary of complaints received by Council.

### FINANCIAL IMPLICATIONS:

There are no direct financial implications arising from this report.

### **RECOMMENDATION:**

**1. THAT** the information concerning the Western Harbour Tunnel and Warringah Freeway Upgrade project be received.

### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet community needs
- 2.4 Improved traffic and parking management

- 5. Our Civic Leadership
- 5.2 Council is well governed and customer focused
- 5.3 Community is informed and consulted

### **BACKGROUND**

The Western Harbour Tunnel and Warringah Freeway Upgrade project SSI 8863 was approved by the Minister for Planning and Public Spaces on 21 January 2021. The project is being undertaken by Transport for NSW.

Warringah Freeway Upgrade Early Works commenced in April 2021. The works impact on a number of Council roads adjacent to and alongside the Warringah Freeway. All community notifications are available on the Western Harbour Tunnel and Warringah Freeway Upgrade webpage at <a href="https://caportal.com.au/rms/wht/documents-and-notifications">https://caportal.com.au/rms/wht/documents-and-notifications</a>

### **CONSULTATION REQUIREMENTS**

As this is a state government project, Transport for NSW are responsible for all community engagement relating to the project.

### **DETAIL**

**Relates to ECM No:** 

Standard or Guideline Used: Signs & Lines Priority: N/A

Precinct and Ward: Hayberry/ Registry/ Stanton/ Neutral/ Anderson/ CBD; Tunks/ Victoria/

Wollstonecraft

**Impact on Bicycles:** Local cycling access may be impacted adjacent to and around the WHT/WFU work sites under traffic management

**Impact on Pedestrians:** Local pedestrian access may be impacted adjacent to and around the WHT/WFU work sites under traffic management

**Impact on Parking:** Approximately 75 parking spaces on Alfred Street North; 35 spaces on Cammeray Avenue and 10 spaces on Ridge Street have so far been removed by TfNSW to facilitate the works.

The Western Harbour Tunnel Project requires installation of electricity supply cables within various public roads to provide power to its various Project worksites. The works area is shown on the attached map. It is expected that works are completed by 31 March 2023. The works on Active Transport Link (ATL) within the Cammeray Golf Course connecting Ernest Street to Warringah Road is complete. The Works on the Amherst Noise wall has also been commenced and almost Complete.

Council has received numerous notices from Transport for NSW under 64(1A) of the Roads Act 1993 of their intention to exercise functions of a road's authority. This means that TfNSW has the same powers under the Roads Act 1993 as Council for the roads listed in each notice.

### 6.5. Traffic Committee Meeting Dates for 2023

**AUTHOR:** Report of Acting Manager, Traffic and Transport Operations, Iman Mohammadi

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

**ATTACHMENTS: Nil** 

### **DESCRIPTION/SUBJECT MATTER:**

The meetings of North Sydney Traffic Committee (NSTC) for 2023 are proposed to commence on 3 February 2023 and then to be held every sixth Friday after that. The scheduled NSTC meeting dates including the Agenda closing dates are shown on the table below. All Traffic Committee minutes/recommendations have to be approved by Council. At the time of writing this report the Council meeting dates for 2023 had not been set therefore the minutes/recommendation will be reported to the first available Council meeting after the Traffic Committee minutes have been finalised.

The Traffic Committee meetings will be held in the Council Chambers at 10.00am.

NORTH SYDNEY TRAFFIC COMMITTEE 2023					
Traffic Committee Agenda Closing	Traffic Committee Meeting Dates				
Date					
9 January 2023	3 February 2023				
20 February 2023	17 March 2023				
3 April 2023	28 April 2023				
15 May 2023	9 June 2023				
26 June 2023	21 July 2023				
7 August 2023	1 September 2023				
18 September 2023	13 October 2023				
23 October 2023	17 November 2023				

### **FINANCIAL IMPLICATIONS:**

Nil

### **RECOMMENDATION:**

1. THAT the proposed North Sydney Traffic Committee meeting dates for 2023 be adopted.

### 7. Local Development Advisory Committee Items for Consideration

### 7.1. Matora Lane, Cremorne – Laneway Upgrade

**AUTHOR:** Report of Engineering Project Manager, Shahid Rehman

**ENDORSED BY:** Duncan Mitchell, Director Engineering and Property Services

**ATTACHMENTS:** {attachment-list-do-not-remove}

### **PURPOSE:**

The purpose of this report is to address community concerns on the existing condition of Matorla Lane, Cremorne and discuss the proposed upgrading of the Laneway to improve safety for all road users.

### **EXECUTIVE SUMMARY:**

A report concerning speeding and public safety issues at Matora Lane, Cremorne request to upgrade the laneway to address speeding issues and implement public road safety measures by reducing the speed limit from 50km/hr to 10km/hr and carry out the following upgrade works:

- 1. Introduce road widening at the entry to Matora lane from Young Street
- 2. Introducing bend widening and a passing bay where there is little to no forward visibility of on-coming traffic.
- 3. Safety barrier and retaining wall works at the steep embankment on the northern side of the lane and re-profiling parts of the embankment to meet Australian road design standards.
- 4. Kerb and Gutter and Drainage works to improve embankment stability due to soil
- 5. New road surfacing from Young Street to the Primrose Park carpark
- 6. New road signage
- 7. Road markings and reflective markings

### FINANCIAL IMPLICATIONS:

Nil

### **RECOMMENDATION:**

- **1. THAT** Traffic Committee endorse the proposal to reduce the speed limit at Matora Lane from 50km/hr to 10km/hr.
- **2. THAT** Traffic Committee endorse the Traffic aspect of the proposed works as identified in this report to address public safety concerns raised by the community about the current condition of Matora Lane.
- **3.THAT** Traffic Committee note that a Construction Traffic Management Plan (CTMP) will be produced to ensure that access to the Tennis Courts, Arts and Crafts centre and the adjoining Sports field carpark will be maintained during the construction period.



### LINK TO COMMUNITY STRATEGIC PLAN

The relationship with the Community Strategic Plan is as follows:

- 2. Our Built Infrastructure
- 2.1 Infrastructure and assets meet diverse community needs
- 2.4 Efficient traffic mobility and parking
- 4. Our Social Vitality
- 4.1 North Sydney is connected, inclusive, healthy and safe

### **CONSULTATION REQUIREMENTS**

Consultation will be undertaken with all key stakeholders who use Matora Lane on the development of a Construction Traffic Management Plan (CTMP)

### **DETAIL**

Matora Lane is a narrow laneway (average 5.2m wide) located in Cremorne, off Young Street which is approximately 160m in length. It is used primarily by locals and visitors to access/egress Primrose Park car park for the sports field and community facilities at Primrose Park which include the newly upgraded Tennis Courts, Art & Craft Centre and Artist Studios.

Please refer to Attachment 1 for the location plan and photos showing the existing condition of the laneway.

The designated speed limit on Matora Lane is currently 50km/hr. Though it is not signposted this is the default road speed on all local roads in North Sydney – unless signposted otherwise.

The current road geometry of the laneway and its existing alignment and profile are not considered appropriate for a 50km/hr speed limit. The roadway is also used frequently by pedestrians to access the facilitates as there is no dedicated footpath due to the narrowness of the lane and surrounding topography.

A recent speed and traffic survey undertaken (October 2022) highlighted the average weekly 85<sup>th</sup> percentile speed of the laneway was between 20 and 27 km/hr at the three locations tested. Refer to Attachment 2 for details.

Furthermore, local residents and users of the community facilities at Primrose Park have complained to Council about the condition of the Lane and Public Safety concerns around its narrowness and vehicle speeds. Upgrading of the Laneway has been identified by council in its delivery program for 2021-22 but was postponed until after the completion of the Primrose Park tennis courts upgrade which required heavy vehicles (Concrete Trucks, Tippers and the like) to use the Laneway on a daily basis.

The proposal to improve publicly safety in the laneway and also address its condition includes the following:

- 1. Reduce the speed limit to 10km/hr
- 2. Introduce road widening at the entry to Matora lane from Young Street
- 3. Introducing bend widening and a passing bay where there is little to no forward visibility of on-coming traffic.
- 4. Safety barrier and retaining wall works at the steep embankment on the northern side of the lane and re-profiling parts of the embankment to meet Australian road design standards.
- 5. Kerb and Gutter and Drainage works to improve embankment stability due to soil erosion.
- 6. New road surfacing from Young Street to the Primrose Park carpark
- 7. New road signage
- 8. Road markings and reflective markings

Additionally, Ausgrid have been contacted to improve the street lighting on the laneway.

Refer to Attachment 3 for further details of the design.

## Primrose Park Tennis Primrose Park Tennis Primrose Park Tennis Grasmere Reserve wildly illuminating Willoughby Falls Matora Va Little Comm Co

ATTACHMENT 1 - MATORA LANE UPGRADE - VISUAL CONDITION PHOTOGRAPHS

**LOCATION PLAN** 

### MATORA LANE RECONSTRUCTION



PLAN SHOWING IMAGE LOCATIONS FOR MATORA LANE

### **MATORA LANE - VISUAL CONDITION PHOTOGRAPHS**



Image 1

MATORA LANE - VISUAL CONDITION PHOTOGRAPHS



Image 2





Image 5 Image 6 Image 7

Count Number	1187		Ref : <b>0</b> 0	CT22							
Street	MATORA LAN	E, CREMORI	NE : Between Yo	OUNG STREE	T & CUL-DE-S	ACs (bidirecti	onal) :				
Location	On the first stra	iaht from You	na St. on Tree						Carriageway	,	
		3									$\overline{}$
				Date	26-OCT-2	2		50th Percer			20
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Time	1900 7 DAYS		,	85th Percer y AADT	itile Speed		27
TOTAL CO	UNT MATRIX		Dura		1 HOUR	J		Day AADT			223
	MON	TUE	WED	THU	FRI	SAT	SUN	_	Dav		7 Dav
	31ST	1ST	26TH/2ND	27TH	28TH	29TH	30TH	Total	Average	Total	Averac
Midnight - 1am	0	0	0	0	0	0	0	0	0	0	
1am - 2am	0	1	0	0	0	0	0	1	0	1	
2am - 3am	0	0	0	0	0	0	0	0	0	0	
3am - 4am	0	0	0	0	0	0	0	0	0	0	
4am - 5am	0	0	0	2	0	0	0	2	0	2	
5am - 6am	0	4	2	3	2	0	1	11	2	12	
6am - 7am	3	32	4	11	5	4	1	55	11	60	
7am - 8am	7	6	2	4	14	1	5	33	7	39	
8am - 9am	10	7	4	10	28	17	9	59	12	85	
9am - 10am	9	6	17	15	11	17	13	58	12	88	
10am - 11am	19	17	7	30	15	18	16	88	18	122	
11am - Midday	7	7	28	14	17	14	9	73	15	96	
Midday - 1pm	11	9	10	16	12	15	12	58	12	85	1
1pm - 2pm	4	14	10	8	8	22	11	44	9	77	
2pm - 3pm	7	7	13	8	8	20	13	43	9	76	
3pm - 4pm	15	16	14	11	18	16	18	74	15	108	
4pm - 5pm	11	15	43	22	21	15	15	112	22	142	
5pm - 6pm	28	16	62	26	14	32	10	146	29	188	
6pm - 7pm	18	15	25	19	18	7	6	95	19	108	
7pm - 8pm	14	10	14	11	1	12	6	50	10	68	
8pm - 9pm	13	16	19	12	3	0	0	63	13	63	
9pm - 10pm	11	8	9	1	2	5	1	31	6	37	
10pm - 11pm	3	9	1	6	0	0	1	19	4	20	
11pm - Midnight	0	1	0	0	0	0	0	1	0	1	
Total	190	216	284	229	197	215	147	1116	223	1478	21

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	4400			ОТОО							
Count Number	1188		Ref : O								
Street	MATORA LANE				T & CUL-DE-SA	Cs (bidirecti	onal) :				
Location	On the second s	straight from Y	oung St, on Tre	ee					Carriageway		
			Start	t Date	17-OCT-22		Weekly	50th Percent	tile Speed		20
				t Time	1300			85th Percent			27
TOTAL COL	JNT MATRIX		Dura	ation	7 DAYS		Five Da	y AADT			201
101A2 000	THE IMPAIRIES		Inter	val	1 HOUR		Seven I	Day AADT			186
	MON	TUE	WED	THU	FRI	SAT	SUN	5 [	Dav	-	7 Dav
	17TH / 24TH	18TH	19TH	20TH	21ST	22ND	23RD	Total	Average	Total	Average
Midnight - 1am	0	0	0	0	0	2	0	0	0	2	0
1am - 2am	0	0	0	0	0	0	0	0	0	0	0
2am - 3am	0	0	0	0	0	0	0	0	0	0	0
3am - 4am	0	0	0	0	0	0	0	0	0	0	0
4am - 5am	0	0	0	1	0	0	0	1	0	1	0
5am - 6am	3	3	3	1	3	0	0	13	3	13	2
6am - 7am	9	33	3	11	10	1	0	66	13	67	10
7am - 8am	4	6	5	3	6	3	1	24	5	28	4
8am - 9am	2	4	4	17	18	5	6	45	9	56	8
9am - 10am	9	15	17	20	8	11	8	69	14	88	13
10am - 11am	7	10	8	15	4	29	9	44	9	82	12
11am - Midday	8	5	21	9	15	15	5	58	12	78	11
Midday - 1pm	4	10	10	7	6	16	3	37	7	56	8
1pm - 2pm	6	20	9	11	9	19	11	55	11	85	12
2pm - 3pm	9	16	8	15	10	29	11	58	12	98	14
3pm - 4pm	10	16	20	17	19	14	10	82	16	106	15
4pm - 5pm	8	26	19	18	28	24	9	99	20	132	19
5pm - 6pm	13	17	27	17	11	19	10	85	17	114	16
6pm - 7pm	19	22	24	21	12	9	8	98	20	115	16
7pm - 8pm	8	13	17	5	3	6	4	46	9	56	8
8pm - 9pm	16	18	14	7	1	0	2	56	11	58	8
9pm - 10pm	13	16	12	3	2	0	0	46	9	46	7
10pm - 11pm	4	8	7	0	0	0	0	19	4	19	3
11pm - Midnight	0	2	0	0	0	0	0	2	0	2	0
Total	152	260	228	198	165	202	97	1003	200	1302	186

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Count Number	1189		Ref : O	CT22							
Street	MATORA LANE	, CREMORNE	: Between Y	OUNG STREE	T & CUL-DE-S	ACs (bidirecti	ional) :				
Location	On the third strai	iaht from Your	a St. ELP MO1	14973					Carriageway		
		<u> </u>									$\overline{}$
				Date	17-OCT-22	2		50th Percer			16
			\	Time	1300 7 DAYS			85th Percer y AADT	itile Speed		20 207
TOTAL CO	UNT MATRIX		Dura Inter		1 HOUR	J		Day AADT			194
•			, inter	vai			33.13.1	- a, 7 t			
	MON	TUE	WED	THU	FRI	SAT	SUN		Dav		7 Dav
	17TH / 24TH	18TH	19TH	20TH	21ST	22ND	23RD	Total	Average	Total	Averag
Midnight - 1am	0	0	0	0	0	2	0	0	0	2	
1am - 2am	0	0	0	0	0	0	0	0	0	0	
2am - 3am	0	0	0	0	0	0	0	0	0	0	
3am - 4am	0	0	0	0	0	0	0	0	0	0	
4am - 5am	0	0	0	1	0	0	0	1	0	1	
5am - 6am	3	3	3	1	3	0	0	13	3	13	
6am - 7am	10	35	1	11	11	0	0	68	14	68	
7am - 8am	4	6	5	5	5	4	1	25	5	30	
8am - 9am	2	4	3	16	19	6	7	44	9	57	
9am - 10am	9	16	18	21	8	14	9	72	14	95	
10am - 11am	8	9	12	17	6	32	12	52	10	96	
11am - Midday	7	4	22	7	15	13	5	55	11	73	
Midday - 1pm	5	10	10	8	6	15	3	39	8	57	
1pm - 2pm	7	20	13	10	10	21	13	60	12	94	
2pm - 3pm	10	14	10	17	10	29	12	61	12	102	
3pm - 4pm	11	17	18	13	20	13	10	79	16	102	
4pm - 5pm	8	29	21	19	25	29	11	102	20	142	- 1
5pm - 6pm	14	18	29	19	13	21	10	93	19	124	
6pm - 7pm	19	22	23	24	14	11	9	102	20	122	
7pm - 8pm	8	12	16	6	3	4	4	45	9	53	
8pm - 9pm	17	20	14	8	1	1	2	60	12	63	
9pm - 10pm	12	15	12	2	2	0	0	43	9	43	
10pm - 11pm	4	6	7	0	0	0	0	17	3	17	
11pm - Midnight	0	2	0	0	0	0	0	2	0	2	
Total	158	262	237	205	171	215	108	1033	206	1356	19

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### MATORA LANE LANEWAY UPGRADE, CREMORNE POINT LANEWAY UPGRADE

### ALL WORKS MUST BE IN ACCORDANCE WITH THE NORTH SYDNEY COUNCIL INFRASTRUCTURE SPECIFICATIONS.

### **GENERAL NOTES**

G1 ALL DIMENSIONS ARE IN MILIMETERES G2. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS AND ARCHITECTURAL DRAWINGS

DIAGNINOS.

GS. ALL EXCAVATIONS SHALL BE UNDERTAKEN UNDER SUPERVISION OF STRUCTURAL ENGINEER AND ANY EXCESSIVE MOVEMENT OF THE EMBANKMENTS AND EXCAVATION SHALL BE REPORTED IMMEDIATELY TO THE STRUCTURAL ENGINEER AND ADVICE SHALL BE SOUGHT.

### CONCRETE

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3800 AND OTHER RELEVANT AUSTRALIAN CODES. C2. CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:

ELEMENT	SLUMP	AGGREGATE	CEMENT	fс
REIATING WALL AND FOOTING	80	20	G.P.	32

NOTE:-MAXIMUM DRYING SHRINKAGE STRAIN (TO AS 1012 PART 13) SHALL NOT EXCEED 650 MICOMETERS AT 56 DAYS.

SIZES OF CONCRETE FLEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES

INCLUDE I HICKNESS OF APPLIED FINISHES.

C4. NO HOLES, CHASES OF EMBEDMENT OF PIPES
OTHER THAN THOSE SHOWN ON THE STRUCTURAL
DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS
WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C5. CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

C6 CONDUITS PIPES AND THE LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER.

C7. CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH AS 3600 AND SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS
USING AN APPROVED PROPRIETARY CURING COMPOUND (EXCEPT CHLORINATED RUBBER BASED TYPE) OR CONTINUOUS PONDING WITH POTABLE

C8. ALIPHATIC ALCOHOL:-WHEN SHADE TEMPERATURE EXCEEDS 35 C SPRAY THE EXPOSED SURFACE OF CONCRETE SLAB DURING THE PLACING AND FINISHING OPERATION WITH FINE FILM OF ED ALIPHATIC ALCOHOL REPEAT THE SPRA IF THE SPRAYED SURFACE HAS BEEN RE-WORKED.

IF THE SPHATEU SUPPAUE THIS BEEN RE-WORKEU.

G9. ENSURE ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK. C10. CALCIUM CHLORIDE IS NOT PERMITTED TO BE USED.

### STRUCTURAL STEEL

- S1 ALL MATERIALS AND WORKMANSHIP TO COMPLY
- S2. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS UNO
- S3. ALL BOLTS, WASHERS & NUTS TO BE GRADE 8.8/8 GALVANISED.
- SA FINISH: HOT DIP GAI VANISE 600 ome/m2 COATING MASS PLUS A HIGH BUILD EPOXY FIRST COAT FOLIVALENT TO SYSTEM DESIGNATION HDG 600 P3 IN TABLE 5.3 OF AS/NZ 2312. COLOUR OF FIRST COAT TO BE SELECTED BY THE SUPERINTENDENT.

### MONITORING EXISTING RETAINING WALL AND ROCK

MERI. CONSIDERING PROXIMITY TO THE EXISTING RETAINING WALL, THE CONTRACTOR SHALL PREPARE DILAPIDATION REPORTS FOR THE WORKS PRIOR TO COMMENCEMENT OF THE WORKS AND AFTER COMPLETION OF THE WORKS.

MER2. THE CONTRACTOR SHALL MONITOR THE EXISTING RETAINING WALL DURING DEMOLITION WORKS, EXCAVATION WORKS AND PILING WORKS. MER3 IF THE PILING AND EXCAVATION WORKS

43. IF THE PILING AND EXCAVATION WORKS ENCOUNTERED LARGE SANDSTONE BOULDERS WHICH COULD NOT BE REMOVED, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER TO REVIEW THE SITUATION AND PROVIDE ADVISE REGARDING THE IMPACT ON THE RETAINING WALL STABILITY.

### TRAFFIC BARRIER DESIGN AND INSTALLATION

TB1. THE TRAFFIC BARRIER DESIGN CRITERIA ARE SHOWN ON THE DRAWINGS.

TB2. ALL TRAFFIC W BEAM BARRIERS, POSTS AND TERMINAL POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE RMS TECHNICAL SPECIFICATIONS AND MANUFACTURER'S MANUALS.

### REINFORCEMENT

ALL MORK IANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVAN AUSTRALIAN CODES R2 REINFORCEMENT TYPE AND

SYMBOL	TYPE	AUS. STAN.	GRADE
RL & SL	HOT ROLLED DEFORMED BARS WELDED WIRE REINFORCEMENT FABRIC	1302 1304	500 500

R3. BAR NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER:-No. OF BARS, TYPE, BAR SIZE (mm), SPACING (mm), LAYER e.g. 20 (Y OR N)16-200 (1) U.N.O.



FARRIC NOTATION GIVES THE FOLLOWING NEORMATION IN THIS ORDER: "RI OR SI " SYMBOL AS REFERENCE NUMBER, LOCATION. e.g. RL818 TOP R5. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN

R8. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

R7. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS OR SUPPORT BARS.

R8. CLEAR COVER TO FACE OF ALL REINFORCEMENT

EXPOSURE CONDITION	COVER (mm)
SURFACES OF MEMBERS IN CONTACT WITH THE GROUND. (A) SURFACE PROTECTED BY DAMP PROOF MEMBRANE 1. (B) UNPROTECTED SURFACES	30 U.N.O. 75

R9. COVER SPECIFIED ALSO APPLIES LOCALLY AT RECESSES, DRIP GROOVES etc... R10. LAP REINFORCEMENT ONLY AT LOCATIONS

ILESS BULAT	OTHI ED BEI		SE	NOTE	D,	LAP	BAR	S A	s
			TENS	ION LA	VP SPL	CE LE	NGTH		ì
fc	COVER	N12	N16	N20	N24	N28	N32	N36	ı

40	- 00	410	475 025 0		075 1200				_1	
									_	
				_	_	_			٦	
DEVELOPMENT SPLICE LENGTH										
	BAR	SIZE		MI	MIN. SPLICE LENGTH (mm					
	N1	2		$\top$	375 (500)					

LAP LENGTH SHOWN IN BRACKETS APPLY TO HORIZONTAL BARS WITH MORE THAN 300 MM OF CONCRETE CAST BELOW THE BAR.

R11. FABRIC SHALL BE LAPPED SUCH THAT THE TWO OUTERMOST WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST WIRES OF THE OTHER SHEET BY 25 mm

R12. A MAXIMUM OF THREE SHEETS OF FABRIC SHALL BE LAPPED AT ANY POINT.

R13. HOOKS, BENDS AND COGS TO BE IN ACCORDANCE WITH AS 3600 (300 Min.) UNLESS NOTED OTHERWISE ON DRAWINGS.

### **GROUND WORKS**

GW1. SEPARATE AND REMOVE ALL TOP SOIL. NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL. STORE TOP SOIL IF REQUIRED.

GW2. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND

GW3. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 200mm.

GW4. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO GWA. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 100% STANDARD MAXIMUM DRY DENSITY. LOWER LAYERS IN PAVED AREAS AND ALL LAYERS IN BUILDING AREA TO BE COMPACTED TO A MINIMUM 80% STANDARD DRY DENSITY AT OPTIMUM MOISTURE CONTENT 2.5% AS REQUIRED BY AS 1289 E1.1. GEOTECHNICAL ENGINEER TO VERIFY.

GW5. ALL EMBANKMENTS TO BE COMPACTED IN 200 mm GWS. ALL EMBANAMENTS TO BE COMPACTED IN 200 HM LEYERS AS PER NOTE GWB AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 3 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DARANAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.

GW6. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 2 STANDARD IN ACCORDANCE WITH AS 3798

GW8. ALL FILL MATERIAL SHALL BE INSPECTED AND APPROVED PRIOR TO COMMENCEMENT OF WORKS BY ACCREDITED GEOTECHNICAL OR STRUCTURAL ENGINEER.

### CHEMICALLY ANCHORED REINFORCEMENT

CART. WHERE SHOWN ON THE DRAWINGS REINFORCEMENT BARS SHALL BE CHEMICALLY ANCHORED INTO EXISTING CONCRETE AS DESCRIBED BELOW.

CAR2. PERCUSSION DRILL (CORING NOT PERMITTED) A CARLE PERGUSSION DHILL COMING NOT PERMITTED TA
HOLE TO THE CORRECT DIAMETER AND DEPTH FOR THE
PARTICULAR SIZE REINFORCING BAR AS TABULATED
BELOW, UNLESS SHOWN OTHERWISE ON THE
DRAWINGS.

BAR SIZE (Y OR N)	HOLE DIA (mm)	HOLE DEPTH (mm)
12 16	16 22	260 350
20	28	420
24	32	550

CARS. THOROUGHLY OF FAN THE HOLF LISING A ROLIND.

WIRE BRUSH AND BLOW OUT ALL DUST.

CARA. ENSURE HOLE IS CLEAN AND DRY AND INSERT SUFFICIENT HILTH IT SO RESIN INTO THE BASE OF THE HOLE TO ENSURE THAT WHEN THE BAR IS INSTALLED RESIN APPEARS AT THE FACE OF THE HOLE.

CAS. IMMEDIATELY INSERT THE REINFORCING BAR MITO THE HOLE BY ROTATING SLOWLY TO FULLY COAT.

THE BARWINT RESIS, AND PUSH OF LICE WITH THE HOLE.

CAR6. ENSURE BAR IS NOT DISTURBED WHILST RESIN IS CURING (APPROX 2 HOURS)

### TRAFFIC BARRIER DESIGN AND INSTALLATION

TB1. THE TRAFFIC BARRIER DESIGN CRITERIA ARE SHOWN ON DRAWINGS

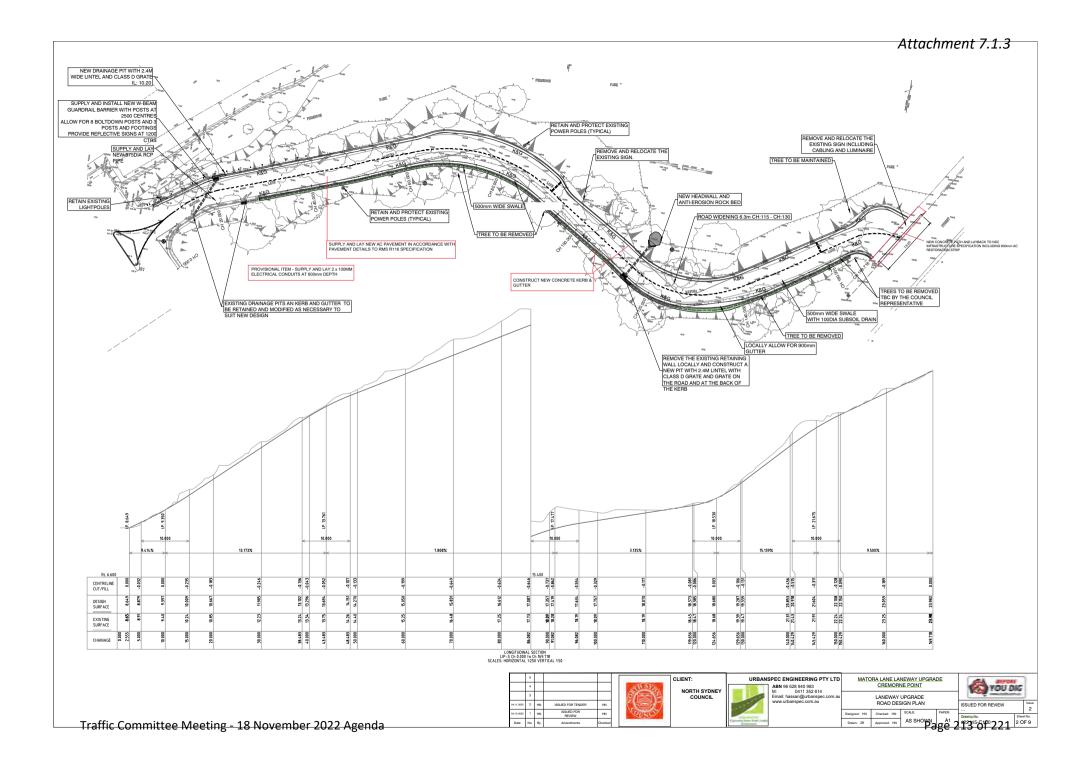
### Attachment 7.1.3

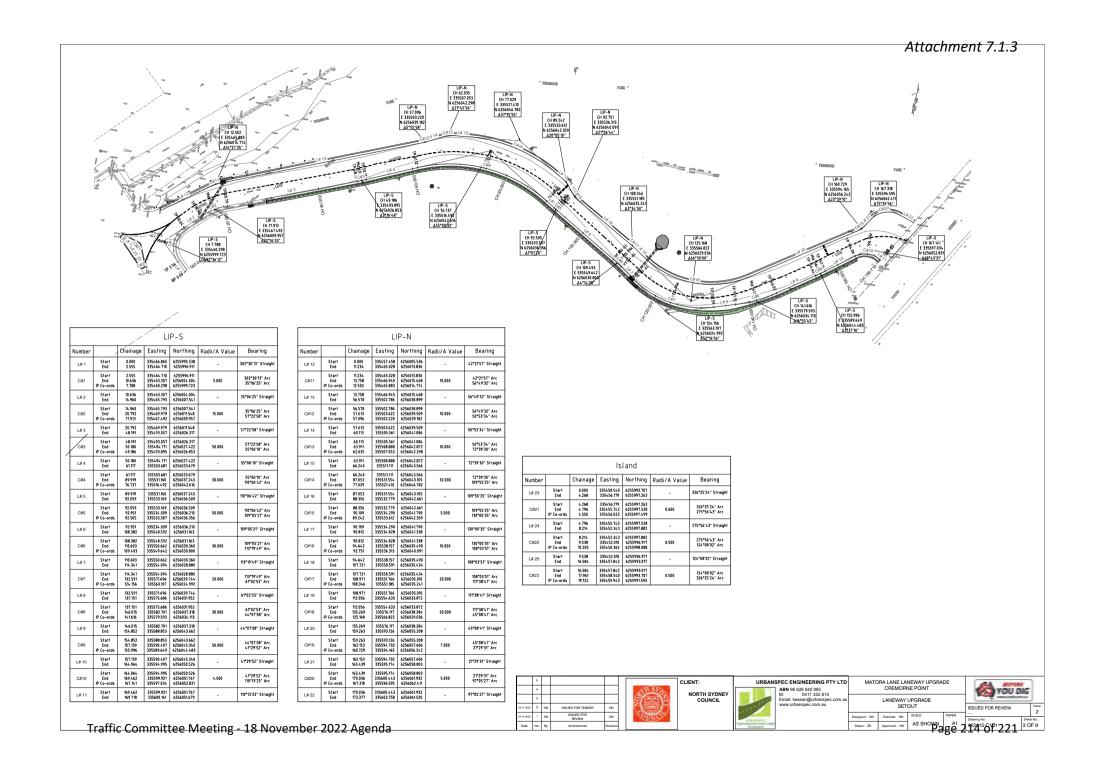
DRAWING SCHEDULE		
C001 GENERAL NOTES AND DRAWING SCH.	SHEET 1/9	REV 2
C100 ROAD DESIGN PLAN AND SECTION	SHEET 2/9	REV 2
C101 SETOUT PLAN	SHEET 3/9	REV 2
C102 CUT AND FILL PLAN	SHEET 4/9	REV 2
C103 CROSS SECTIONS SHEET1	SHEET 5/9	REV 2
C104 CROSS SECTIONS SHEET 2	SHEET 6/9	REV 2
C200 SWEPT PATH ANALYSIS	SHEET 7 /9	REV 2
C201 LINEMARKING AND SIGNAGE PLAN	SHEET 8/9	REV 2
C300 DETAILS	SHEET 9 /9	REV 2

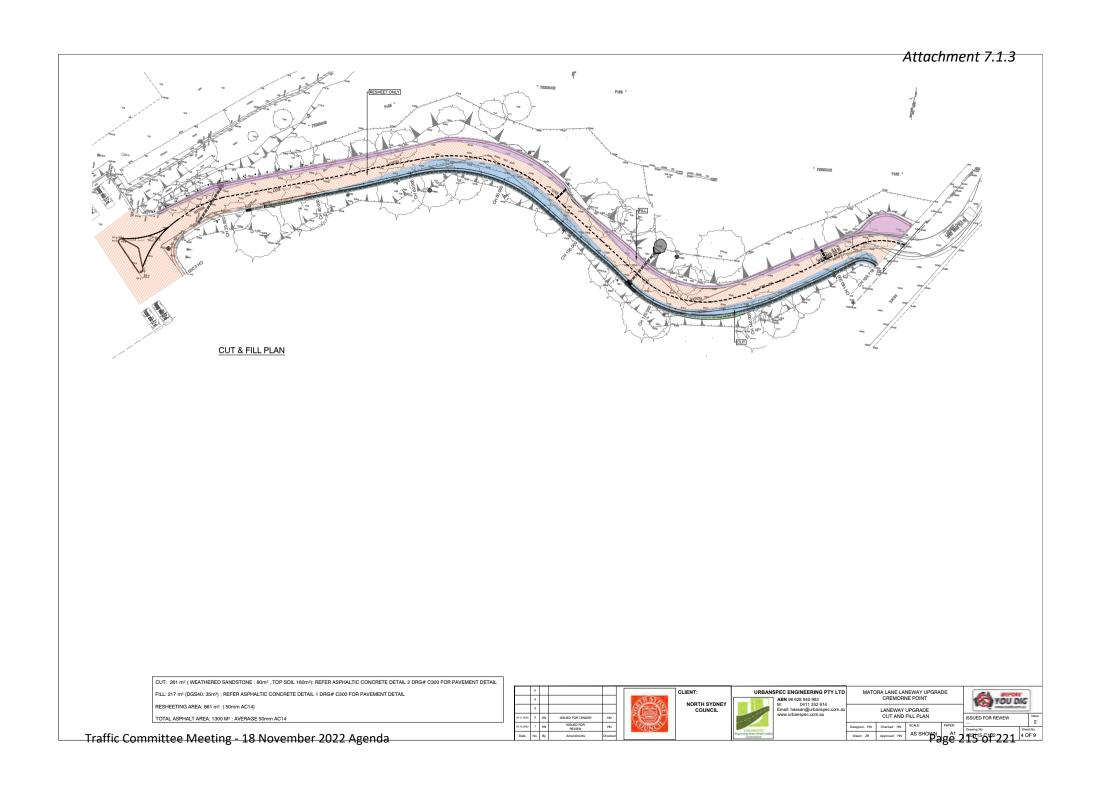


LOCATION PLAN OF MATORA LANE AND PRIMROSE PARK CAR PARK

[		5				Ī		CLIENT:	URBAN	SPEC ENGINEERING PTY LTD	MATC		NEWAY UPGRA	DE	C4	
		4					AH SPA	NORTH SYDNEY	_	ABN 96 628 940 983 M: 0411 352 614		CREMORI	NE POINT		COURSE DESCRIPTION D	BC .
		3						COUNCIL	-	Email: hassan@urbanspec.com.au		LANEWAY	UPGRADE		-	100
ſ	04.11.2022	2	HN	ISSUED FOR TENDER	HN					www.urbanspec.com.au	GENER	RAL NOTES A	ND DRAWING	SCH.	ISSUED FOR REVIEW	lasue
Ī	04.10.2022	1	HN	ISSUED FOR REVIEW	HN		OUNCE				Designed: HN	Checked: HN	SCALE:	PAPER:	Drawing No.	Sheet No.
	Date	No.	Ву	Amendments	Checked				Eligences Street Limited (Control of Control		Drawn: ZR	Approved: HN	AS SHOWN	σê¹ 2		1 OF 9
														ъс <u>2</u>	12 01 221	



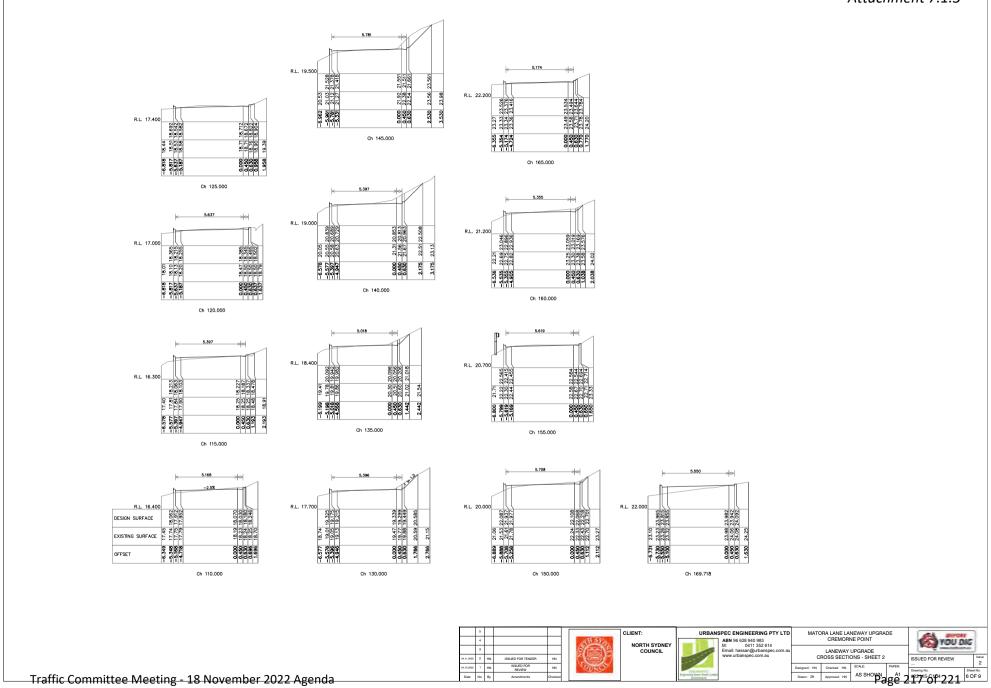


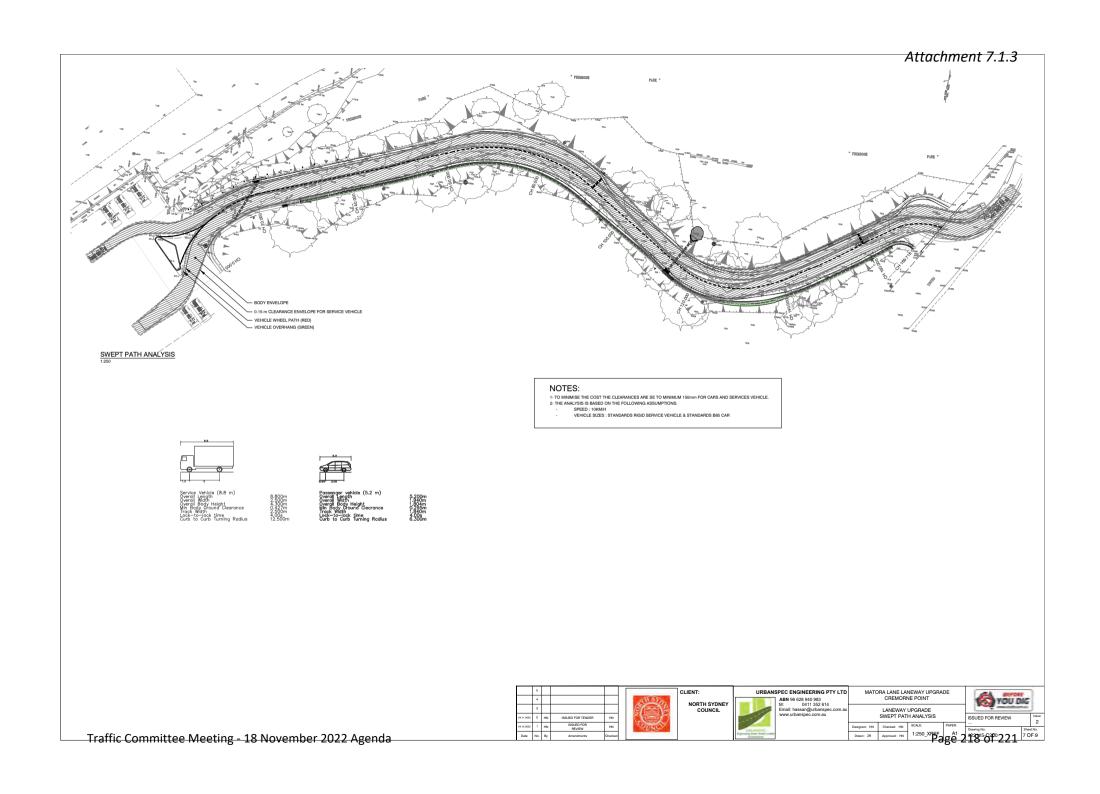


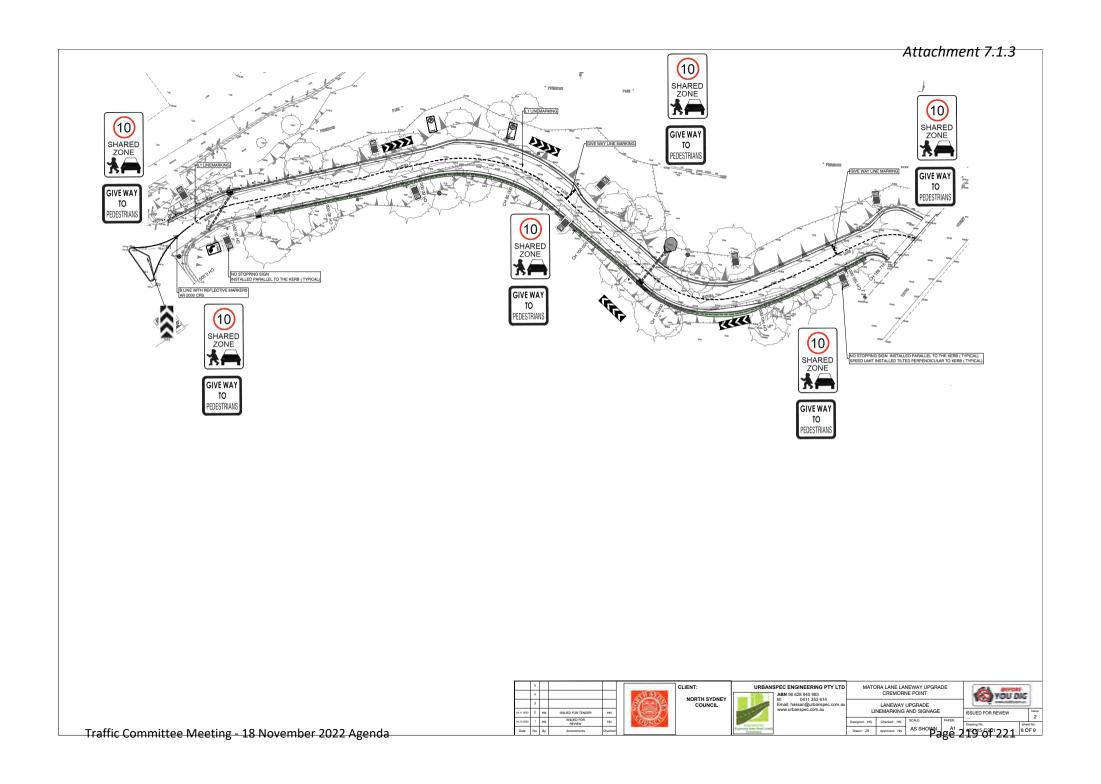
### Attachment 7.1.3

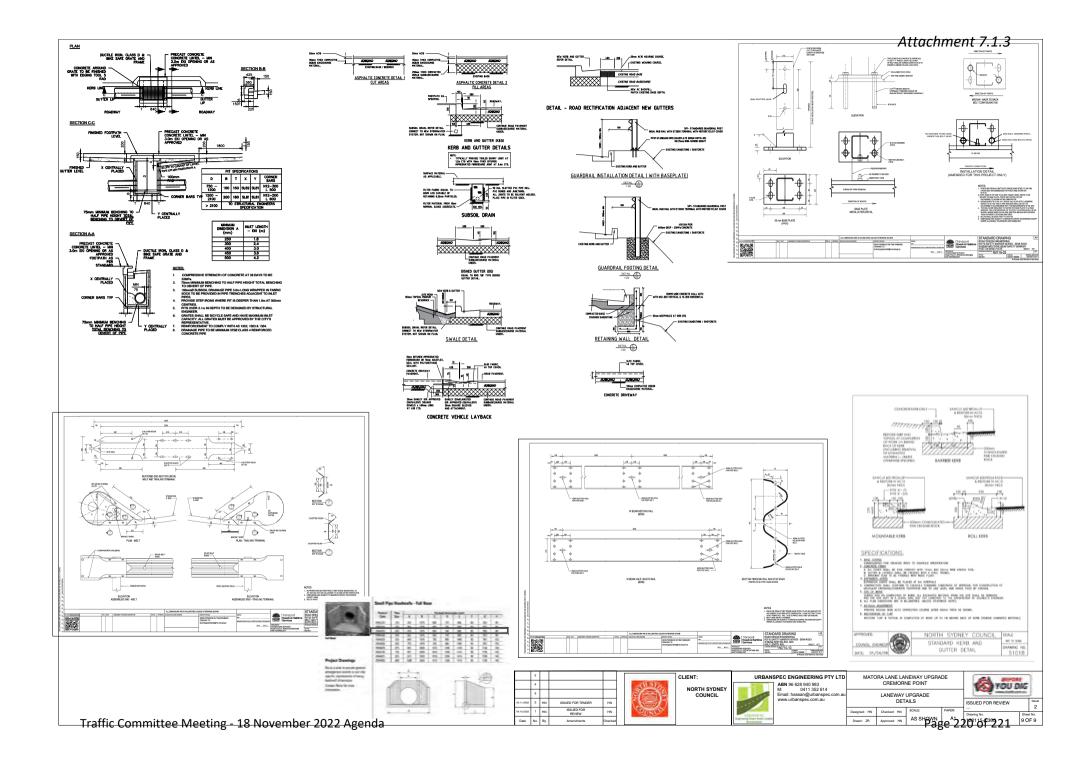


### Attachment 7.1.3









8. 9.	General Business Closure