

Project: **Crows Nest Construct Only** -----

Job No: **No.645**

## MEMORANDUM

From	Company		Email	Phone	Fax	Mobile
	A W Edwards	Planning & Environment Manager		Site No.	Site No.	
	A W Edwards	Senior Environment & Sustainability Coordinator				

To	Company			Phone	Fax	Mobile
	HBI	Independent Environmental Representative				

Copy	Company			Phone	Fax	Mobile
	Sydney Metro	Planning & Environment Manager				
	Sydney Metro	Senior Environment Officer				

Date 17-Nov-23

Pages: 1 +

## Purpose

The purpose of this memorandum is to document the potential environmental impacts of the minor ancillary facility (MAF) on Clarke Lane north (refer Figure 1) and demonstrate that this facility satisfies the criteria of Condition A18 of State significant infrastructure (SSI) approval #7400 (SSI 7400).

## Requirement

Minor ancillary facilities which comprise lunch sheds, office sheds, portable toilet facilities, or the like, which have not been identified in the environmental impact statement (EIS) and do not meet the requirements of Condition A16, must satisfy the following criteria from Condition A18:

1. have no greater environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the CEMP required under Condition C1 of SSI 7400; and
2. have been assessed by the ER to have:
  - a. minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the *Interim Construction Noise Guideline* (DECC 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts;
  - b. minimal environmental impact with respect to waste management and flooding; and
  - c. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.

## Proposed site

The site proposed for a MAF is along Clarke Lane north, behind 20 Clarke Street (commercial) and 22-26 Clarke Street (residential) as presented in Figure 1.

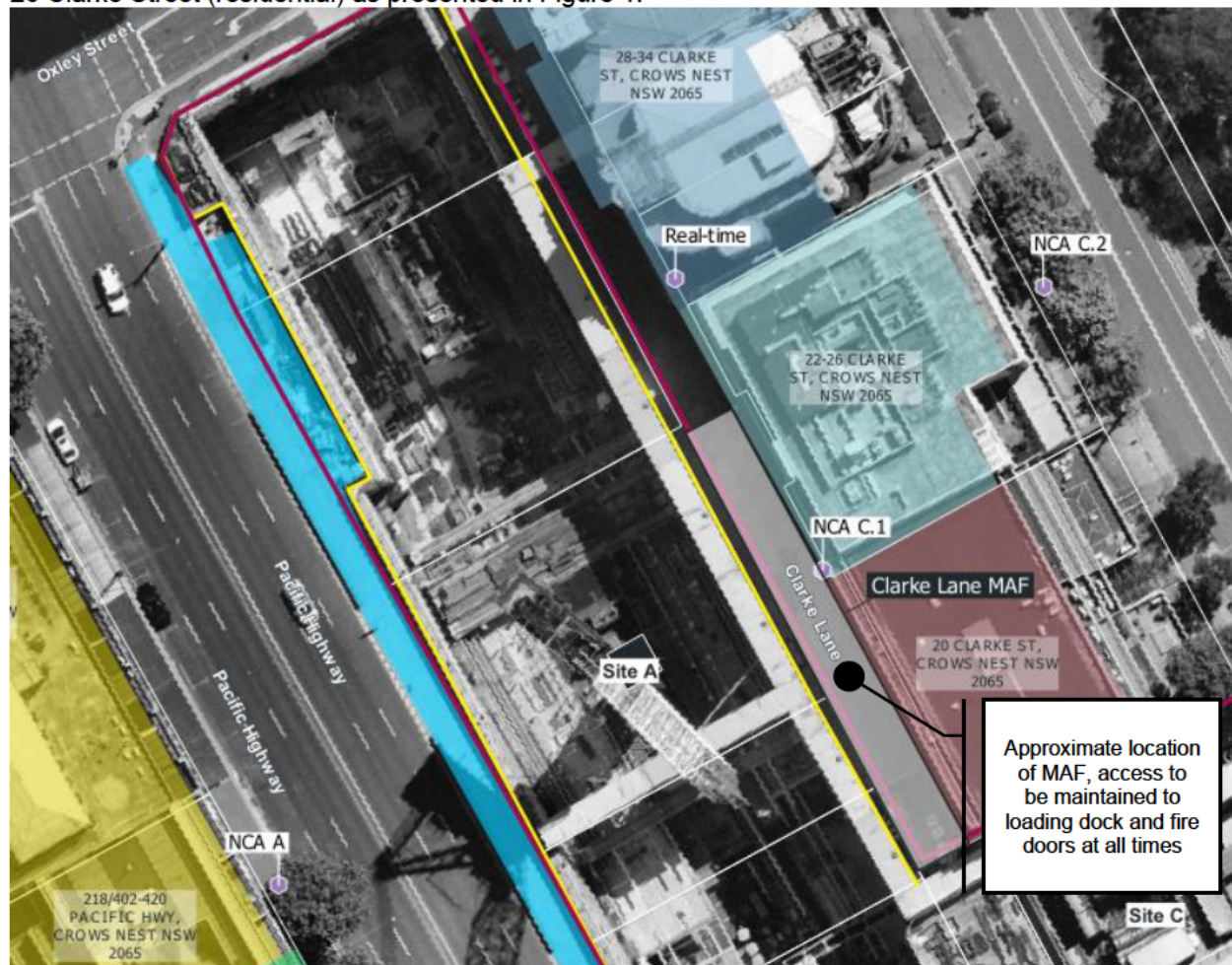


Figure 1 Location of proposed minor ancillary facility

The proposed site is intended to be used for the laydown of construction materials and equipment and as a concrete pumping location until the perimeter walls to ground floor are poured. Following completion of perimeter walls, the site will continue to be used for temporary laydown and for services installation, and the site will be required until construction completion and paving is completed. Concrete pumping and other activities will occur in accordance with standard construction hours and any out of hour work approvals. No hazardous materials (liquid or solid) are intended to be kept in this area. Examples of construction materials that could be kept in this area includes rigging equipment, wall shutters, PVC conduit, skip bins and other general building material. Materials will be kept in this area 24/7, however will only be placed or moved during standard working hours unless assessed under an OOHW application or other assessment for approval. Lighting has not been deemed necessary, however should temporary lighting be required, light fittings will be directed down and will be sufficiently shrouded to minimise light spill to the above ground residential apartments at 22-26 Clarke Street.

The current concrete pumping location on Clarke Lane shifted roughly 10m north into the minor ancillary facility to facilitate the demolition of the Clarke Lane Bridge where the previous pumping location was situated. The environmental impacts from the current setup are minimal as a result of this minor change. Concrete pours have not occurred in this location since early 2023, however, will be required to reinstate the bridge prior to handing back the area.

### Assessment

Assessment of the proposed MAF against the requirements of Condition A16 has been documented in Table 1.

*Table 1 Assessment of potential impacts*

Aspect	Nature and extent of impacts (negative and positive) during construction (if control measures implemented) of the proposed/activity, relative to the Approved Project	Proposed Control Measures in addition to project COA and REMMs	Minimal Impact Y/N	Endorsed by ER Y/N	Comments
Flora and fauna	The MAF is established on a local Council Road, there is no flora or fauna adjacent or near the area.  The MAF will not impact flora or fauna.	No additional measures required.	Y		
Water	The surface of the MAF is an asphalt road and concrete sidewalk. The surrounding environment is impervious, stormwater runoff from the area is channelled to the curb and gutter.  There are two stormwater drains (one on either side of the road) approximately 50 metres (m) downslope from the MAF area.  No hazardous liquids are proposed to be stored in the MAF; any spills from plant parked in the MAF or any potential spills of concrete will be managed in accordance with the project spill response procedure. Appropriate controls will be in place to prevent any potential runoff from a concrete pour. There is potential for sediment and debris to escape the site during rainfall events or during vehicle movements entering/exiting the site.  Stormwater runoff must be controlled in accordance with the construction environmental management plan (CEMP) and construction soil and water management procedure.	Potential impacts can be managed through the implementation of environmental measures detailed in the CEMP.  Implementation of updated ECM and PESCP as required to manage changing risks on site.	Y		
Air quality	The MAF will initially be used as a laydown area for rigging, shutters and components of the shutters and as a concrete pumping location. Minor storage of construction materials with dust generating activities during capping beam removal and services installation and for the	No additional measures required.	Y		

	<p>transfer of related material are proposed for the MAF.</p> <p>The MAF will not impact air quality more than would otherwise occur if the activities were carried out under the approved CSSI.</p>				
Noise or vibration	<p>The MAF is located on a local road which is adjacent/parallel to the construction site, with the nearest sensitive receiver being residential and commercial receptors parallel to the road.</p> <p>Minor noise impacts may be generated from laydown of materials and rigging equipment.</p> <p>Materials and equipment will be stored in the MAF 24/7, however materials and equipment will only be moved or placed in this location during standard working hours unless assessed under an OOH approval or other noise assessment for approval.</p> <p>A noise assessment is included in Appendix D. This noise assessment demonstrates that the total noise impacts at the nearest sensitive receiver, from concrete pumping at this location, will not increase the total noise levels which have been predicted in OOH 25.2 (Extended Working Hours). Attended verification noise monitoring carried out at the façade of 22-26 Clarke Street is also included in Appendix D. Concrete pumping will occur during standard hours and will sometimes continue until 10pm when necessary, in accordance with an out of hour work approval.</p> <p>Potential noise impacts must be controlled in accordance with the CEMP and construction noise and vibration management plan.</p>	<p>Potential impacts can be managed through the implementation of environmental measures detailed in the CEMP.</p> <p>Attenuating noise blankets will be installed to the ATF fencing which surrounds the MAF.</p> <p>Concrete pouring will be managed to minimise consecutive pour days from this location wherever reasonable and feasible.</p>	Y		
Indigenous heritage	<p>There is no indigenous heritage in or near the proposed site.</p> <p>The MAF will not impact indigenous heritage.</p>	No additional measures required.	Y		
Non-indigenous heritage	<p>28 Clarke Street has local heritage significance and the building envelope is approximately 20 m north of the proposed site.</p> <p>The MAF will not impact non-indigenous heritage.</p>	No additional measures required.	Y		
Community and stakeholder	<p>Clarke Lane provides access to tenants of 22-26 Clarke Street; however this access will not be impacted. A W Edwards has consulted with strata management of 22-26 Clarke Street regarding the occupation of a portion of Clarke Lane, informing management that access will be maintained for 22-26 Clarke Street and that the laydown area will be visible on the road, and people within the adjacent building</p> <p>There is one parking space for 20 Clarke Street that will be impacted and this tenant has agreed to terms with A W Edwards for the duration of impact.</p> <p>Residents of 20-26 Clarke Street were consulted regarding the change of concrete pumping location on the 14<sup>th</sup> April 2022 and no objections were recorded. The notification that was circulated to these residents is provided as Appendix C.</p>	<p>Potential impacts can be managed through the implementation of environmental measures detailed in the CEMP, VALMP, and community consultations measures in the Community Consultation Strategy (CCS).</p> <p>No additional measures required beyond ongoing consultation for work in the laneway</p>	Y		
Traffic	<p>North Sydney Council issued a road closure permit for Clarke Lane (40 metres north from Gate D), in addition to the current road closure</p>	Potential impacts can be managed through the implementation of environmental	Y		



	<p>permit for Clarke Lane/Hume Street. This initial permit was up until 31 December 2021.</p> <p>A W Edwards subsequently applied to North Sydney Council for an extension to the road closure permit. On 20 December 2021, North Sydney Council extended permit, from 1 January 2022 to 30 April 2022, for the standing of machinery and construction materials 24/7 in Clarke Lane. This approval gets extended on a monthly basis and copies are provided to Sydney Metro and the ER for information.</p> <p>No parking bays are affected by this road closure; footpath access, from the rear of 20 Clarke Street, will be maintained. Driveway access to 22-26 Clarke Street is not affected by the road closure.</p> <p>A W Edwards met with the Traffic Control Group on 12 October 2021 and proposed extended the closure of Clarke Lane by 40 m north. None of the stakeholders from the TCG raised any objections to the proposal.</p> <p>Clarke Lane has already been closed at the intersection with Hume Street. Access to local tenants will be maintained for the duration of occupation, which has extended beyond the original 6 months. This area will be actively managed by traffic control.</p> <p>A W Edwards has consulted North Sydney Council and a road occupancy application has been approved.</p>	<p>measures detailed in the CEMP and construction traffic management plan (CTMP)</p> <p>Any conditions/requirements from the road occupancy licence that are to be implemented.</p>			
Waste	<p>The proposed MAF will not generate any waste apart from small amounts of concrete washout which is captured in a concrete washout tray and removed offsite by Pumper Dump. Skip bins of construction waste will be lifted in and out of the station and picked up from the MAF.</p>	No additional measures required.	Y		
Visual	<p>There will be visual impacts for 22-26 Clarke Street and 20 Clarke Street who will see the proposed MAF, however visual screening is installed around the MAF per condition A19 and CEMF requirements. Should temporary lighting be required to illuminate the MAF, light fittings will be directed down and have sufficient shrouds to minimise light spill onto the above ground residential apartments.</p> <p>These potential impacts are not new or additional to visual impacts of construction of the station identified in the EIS and can be managed through the implementation of the construction visual and landscape management plan.</p>	<p>Potential impacts can be managed through the implementation of environmental measures detailed in the CEMP and construction visual and landscape management plan.</p> <p>No additional measures required.</p>	Y		

## Conclusion

Based on the assessment of impacts documented in Table 1, I believe the proposed MAF will have no greater environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the CEMP required under Condition C1 of SSI 7400.

Reference Documents:		
A W E RFI:	Client Instruction No. Client Transmittal No.	A W E CVA:

For A W Edwards Pty Limited



Darren Green

**PLANNING & ENVIRONMENT MANAGER**

*A W Edwards Pty Limited*

ACN 000 045 849  
ABN 76 000 045 849



*Head Office:*  
131 Sailors Bay Road  
PO Box 99  
Northbridge NSW 2063  
Telephone (02) 9958 1474

*Site Office:*  
[ADDRESS](#)  
[ADDRESS](#)

Telephone (02) [NUMBER](#)

## Environmental Representative Approval:

As an approved ER for the Sydney Metro City & Southwest project, I have assessed the information provided in this assessment. I am satisfied that the assessment shows that criteria identified in Condition A18 would be met by the proposed minor ancillary facility.

<b>Name:</b>		<b>Date:</b>	23 November 2023
<b>Title:</b>	Independent Environmental Representative	<b>Conditions/ Comments:</b>	Endorsement is valid until Stage 2 (Station) works are completed, which is currently scheduled for February 2024
<b>Signature</b>			ROLS to be supplied to ER and SM monthly.

## APPENDIX A – ROAD OCCUPANCY LICENCE

# ROAD OCCUPANCY LICENCE

LICENCE NO : 2149180

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM



To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: [myrol.transport.nsw.gov.au](https://myrol.transport.nsw.gov.au). This licence is for the occupation of the road space only. If you are unable to access [myrol.transport.nsw.gov.au](https://myrol.transport.nsw.gov.au), please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: [myrol.transport.nsw.gov.au/help.pdf](https://myrol.transport.nsw.gov.au/help.pdf)

## NON DEVELOPMENT - BUILDING CONSTRUCTION

**Project:** Sydney Metro Chatswood to Sydenham  
**This Activity :** Clarke Lane North-Extended Closure infornt of Gate D.  
As per approved TMP-SMCSWSCN-AWE-SCN-TF-Council:  
PLN-000095 Concrete Delivery TMP [04]

## LOCATION

**Subject Road:** CLARKE LANE  
**From:** HUME ST, CROWS NEST  
**To:** OXLEY ST, ST LEONARDS  
**Council:** NORTH SYDNEY

## LICENSEE

**Organisation:** A W Edwards Pty Ltd  
**Ref No:** Clarke Lane-North (Extended Closure)  
**Name:** [REDACTED]  
**Phone:** [REDACTED]

## ONSITE CONTACT

**Name:** [REDACTED]  
**Phone:** [REDACTED]

## TRAFFIC MANAGEMENT

**Flow Management:** Detour (side track); Non-Trafficable Area  
**Closure Type:** All lanes one direction  
**Closure Lane(s):** Shoulder  
**Direction(s):** All Directions

## LICENCE DURATION

**From:** 02-Nov-2023  
**To:** 01-Jan-2024

## LICENCE CONDITIONS

- 1 YOU MUST USE SHIFT ACTIVATION WEB ADDRESS <https://myrol.transport.nsw.gov.au> TO ACTIVATE AND DEACTIVATE YOUR APPROVED ROAD OCCUPANCY LICENCE(S). (TO CHANGE TRAFFIC CONTROL SIGNALS TO FLASHING YELLOW OR TO ACTIVATE PERMANENT VARIABLE MESSAGE SIGNS DIAL 1800 679 782)
- 2 THIS LICENCE IS NOT AN APPROVAL OF THE PROPONENT'S TRAFFIC GUIDANCE SCHEMES (TGS). PLEASE NOTE WORKCOVER REQUIRES THAT TRAFFIC GUIDANCE SCHEMES (TGS) COMPLY WITH AS1742.3
- 3 ALL MATTERS RELATING TO NOISE GENERATION OR OTHER ENVIRONMENTAL FACTORS ON SITE ARE UNDER THE JURISDICTION OF THE LOCAL COUNCIL AND/OR THE ENVIRONMENTAL PROTECTION AUTHORITY.
- 4 SHOULD THE PROPOSED WORKS INVOLVE UNDERBORING OR EXCAVATION OF STATE ROAD ASSETS OR THE REMOVAL OF KERB AND GUTTER, DETAILS OF WORKS MUST BE APPROVED BY TfNSW. FOR GREATER SYDNEY REGION CONTACT: [greaterSydneyroads@transport.nsw.gov.au](mailto:greaterSydneyroads@transport.nsw.gov.au). FOR REGIONAL & OUTER METROPOLITAN. CONTACT: [road.access@transport.nsw.gov.au](mailto:road.access@transport.nsw.gov.au).
- 5 NOTIFICATION TO AFFECTED BUSINESSES, RESIDENTS AND OTHER STAKEHOLDERS MUST BE UNDERTAKEN AT LEAST 5 BUSINESS DAYS PRIOR TO WORKS COMMENCING
- 6 IF ROAD WORKS ARE IN THE VICINITY OF TRAFFIC CONTROL SIGNALS, PEDESTRIAN ACCESS TO PUSH BUTTONS MUST BE AVAILABLE AT ALL TIMES OR ALTERNATE ARRANGEMENTS MUST BE MADE TO ASSIST THE SAFE CROSSING OF PEDESTRIANS.
- 7 PEDESTRIAN ACCESS AT PRAM RAMPS MUST BE MAINTAINED AT ALL TIMES AND IF ALTERED MUST COMPLY WITH TfNSW'S TECHNOLOGY STANDARDS AND OTHER RELEVANT AUSTRALIAN STANDARDS OR RELEVANT ROAD AUTHORITY REQUIREMENTS.
- 8 PEDESTRIAN ACCESS MUST BE MAINTAINED AT ALL TIMES. SHOULD PEDESTRIAN FOOTPATH BE CLOSED, AN ALTERNATE SAFE PEDESTRIAN DETOUR ACCESS MUST BE CLEARLY SIGNPOSTED. PEDESTRIANS MUST NOT BE DIRECTED OR DIVERTED TO ANY TRAFFICABLE LANES UNLESS THE SAFE PEDESTRIAN PATHWAY IS PROTECTED IN ACCORDANCE WITH TCAWS. PEDESTRIANS MUST ONLY BE DIRECTED TO CROSS TRAFFICABLE LANES AT DEDICATED PEDESTRIAN CROSSING FACILITIES. IN THE ABSENCE OF SUCH FACILITIES, TRAFFIC CONTROLLERS MUST IMPLEMENT SAFE CONTROLS IN ACCORDANCE WITH TCAWS.
- 9 ADEQUATE ADVANCE WARNING MUST BE PROVIDED TO APPROACHING MOTORISTS.
- 10 DETOUR ROUTE MUST BE CLEARLY SIGNPOSTED.

## APPROVED DATES & TIMES

ROLS to be supplied to ER and SM								
From Shift				To Shift				
From	D	M	Time	-	To	D	M	Time
Thu	02	Nov	00:00	-	Fri	03	Nov	00:00
Fri	03	Nov	00:00	-	Sat	04	Nov	00:00
Sat	04	Nov	00:00	-	Sun	05	Nov	00:00
Sun	05	Nov	00:00	-	Mon	06	Nov	00:00
Mon	06	Nov	00:00	-	Tue	07	Nov	00:00
Tue	07	Nov	00:00	-	Wed	08	Nov	00:00
Wed	08	Nov	00:00	-	Thu	09	Nov	00:00
Thu	09	Nov	00:00	-	Fri	10	Nov	00:00
Fri	10	Nov	00:00	-	Sat	11	Nov	00:00
Sat	11	Nov	00:00	-	Sun	12	Nov	00:00
Sun	12	Nov	00:00	-	Mon	13	Nov	00:00
Mon	13	Nov	00:00	-	Tue	14	Nov	00:00
Tue	14	Nov	00:00	-	Wed	15	Nov	00:00
Wed	15	Nov	00:00	-	Thu	16	Nov	00:00
Thu	16	Nov	00:00	-	Fri	17	Nov	00:00
Fri	17	Nov	00:00	-	Sat	18	Nov	00:00
Sat	18	Nov	00:00	-	Sun	19	Nov	00:00
Sun	19	Nov	00:00	-	Mon	20	Nov	00:00
Mon	20	Nov	00:00	-	Tue	21	Nov	00:00
Tue	21	Nov	00:00	-	Wed	22	Nov	00:00
Wed	22	Nov	00:00	-	Thu	23	Nov	00:00
Thu	23	Nov	00:00	-	Fri	24	Nov	00:00
Fri	24	Nov	00:00	-	Sat	25	Nov	00:00
Sat	25	Nov	00:00	-	Sun	26	Nov	00:00
Sun	26	Nov	00:00	-	Mon	27	Nov	00:00
Mon	27	Nov	00:00	-	Tue	28	Nov	00:00
Tue	28	Nov	00:00	-	Wed	29	Nov	00:00
Wed	29	Nov	00:00	-	Thu	30	Nov	00:00
Thu	30	Nov	00:00	-	Fri	01	Dec	00:00
Fri	01	Dec	00:00	-	Sat	02	Dec	00:00

All pages of this Road Occupancy Licence and associated Speed Zone Authorisation(s) must be available on site at all times and must be produced for inspection when requested by representatives of NSW Police, Roads & Maritimes Services, Transport for NSW and other Government Agencies.



# ROAD OCCUPANCY LICENCE

LICENCE NO : 2149180

TRANSPORT MANAGEMENT CENTRE (TMC)

Phone: 0283961513 Monday To Friday 8.30 AM - 4.30 PM



To activate and deactivate your approved work shift(s) on your Road Occupancy Licence, please visit: [myrol.transport.nsw.gov.au](http://myrol.transport.nsw.gov.au). This licence is for the occupation of the road space only. If you are unable to access [myrol.transport.nsw.gov.au](http://myrol.transport.nsw.gov.au), please call TMC on 1800 679 782. For further assistance, please refer to the proponent's user manual here: [myrol.transport.nsw.gov.au/help.pdf](http://myrol.transport.nsw.gov.au/help.pdf)

## NON DEVELOPMENT - BUILDING CONSTRUCTION

**Project:** Sydney Metro Chatswood to Sydenham  
**This Activity :** Clarke Lane North-Extended Closure infornt of Gate D.  
As per approved TMP-SMCSWSCN-AWE-SCN-TF-Council:  
PLN-000095 Concrete Delivery TMP [04]

## LOCATION

**Subject Road:** CLARKE LANE  
**From:** HUME ST, CROWS NEST  
**To:** OXLEY ST, ST LEONARDS  
**Council:** NORTH SYDNEY

## LICENSEE

**Organisation:** A W Edwards Pty Ltd  
**Ref No:** Clarke Lane-North (Extended Closure)  
**Name:** [REDACTED]  
**Phone:** [REDACTED]

## ONSITE CONTACT

**Name:** [REDACTED]  
**Phone:** [REDACTED]

## TRAFFIC MANAGEMENT

**Flow Management:** Detour (side track); Non-Trafficable Area  
**Closure Type:** All lanes one direction  
**Closure Lane(s):** Shoulder  
**Direction(s):** All Directions

## LICENCE DURATION

**From:** 02-Nov-2023  
**To:** 01-Jan-2024

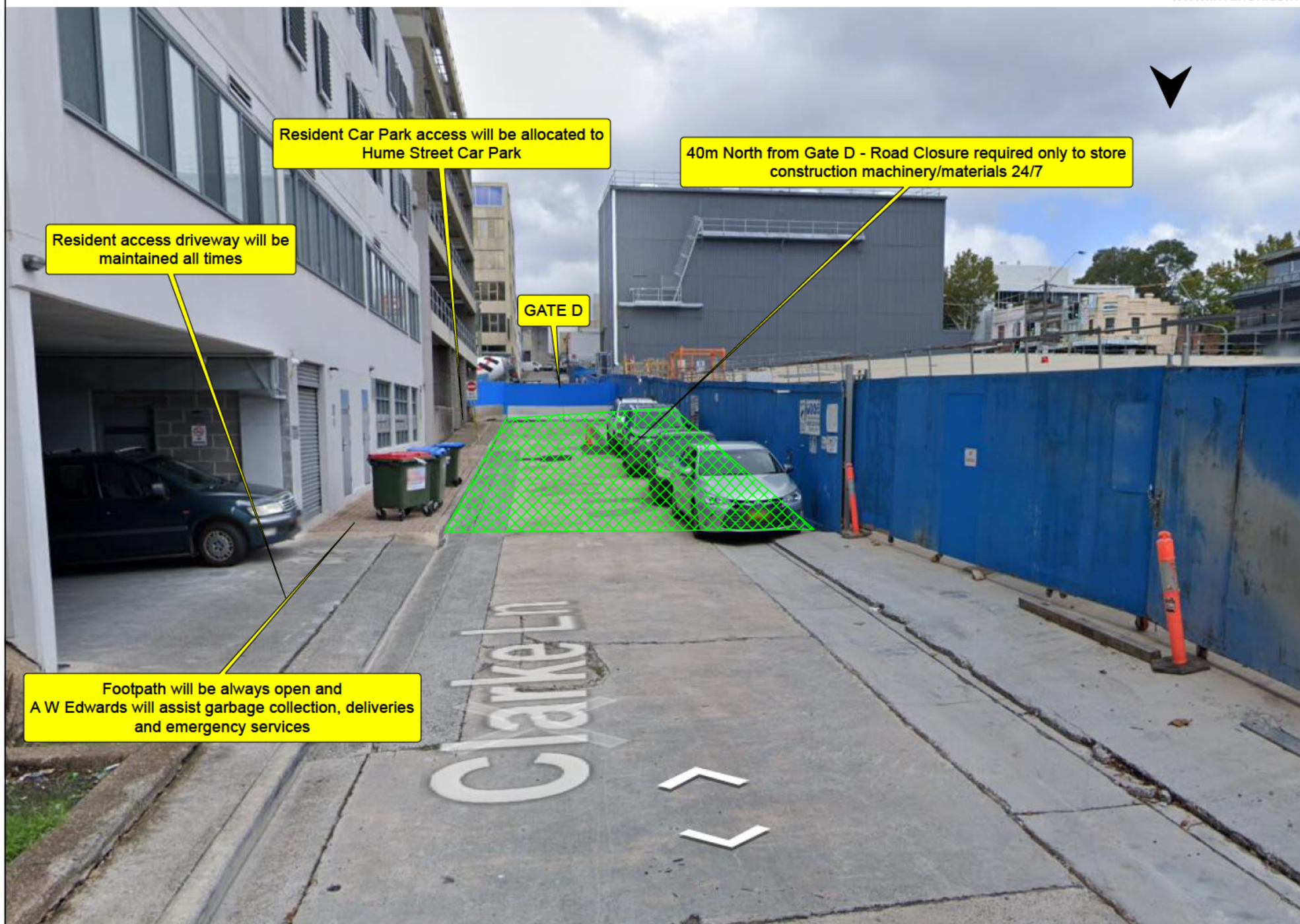
## LICENCE CONDITIONS

- 11 THESE WORKS ARE ONLY TO PROCEED AT THE DISCRETION OF THE TMC OPERATIONAL COORDINATION DUTY MANAGER AT THE COMMENCEMENT OF EACH SHIFT.
- 12 PLEASE NOTE THAT THIS LICENCE DOES NOT CONSTITUTE AN APPROVAL TO CARRY OUT THE ACTIVITIES PROPOSED IN THE ROL APPLICATION. APPLICATION HAS BEEN ASSESSED BY TMC FOR IMPACTS ON TRAFFIC FLOW ON THE PRINCIPAL ROAD NETWORK ONLY. THE ROADS DIRECTLY AFFECTED BY ACTIVITIES ARE LOCAL ROADS ADMINISTERED BY THE LOCAL COUNCIL. APPROVAL MUST BE OBTAINED FROM THE RELEVANT COUNCIL PRIOR TO COMMENCING ANY OF THE PROPOSED ACTIVITIES.
- 13 QUEUING FROM THE WORKS MUST BE MONITORED AT ALL TIMES. IF QUEUING EXTENDS BEYOND 100 METRES, OR IF DELAYS EXCEED 2 MINUTES ALL TRAVEL LANES MUST BE RE-OPENED UNTIL TRAFFIC QUEUES ARE CLEARED AND TRAFFIC IS FREE FLOWING BEFORE RESUMING THE CLOSURE.
- 14 PEDESTRIAN ACCESS MUST BE MAINTAINED AROUND THE WORK AREA IN A SAFE MANNER, COMPLYING WITH COUNCIL REQUIREMENTS.
- 15 LOCAL RESIDENT AND BUSINESS ACCESS MUST BE MAINTAINED AT ALL TIMES.
- 16 CLOSE CONTACT MUST BE MAINTAINED WITH TRANSPORT MANAGEMENT CENTRE ON 1300 725 886 DURING THE WORKS.

## APPROVED DATES & TIMES

From Shift					To Shift				
From	D	M	Time	-	To	D	M	Time	
Sat	02	Dec	00:00	-	Sun	03	Dec	00:00	
Sun	03	Dec	00:00	-	Mon	04	Dec	00:00	
Mon	04	Dec	00:00	-	Tue	05	Dec	00:00	
Tue	05	Dec	00:00	-	Wed	06	Dec	00:00	
Wed	06	Dec	00:00	-	Thu	07	Dec	00:00	
Thu	07	Dec	00:00	-	Fri	08	Dec	00:00	
Fri	08	Dec	00:00	-	Sat	09	Dec	00:00	
Sat	09	Dec	00:00	-	Sun	10	Dec	00:00	
Sun	10	Dec	00:00	-	Mon	11	Dec	00:00	
Mon	11	Dec	00:00	-	Tue	12	Dec	00:00	
Tue	12	Dec	00:00	-	Wed	13	Dec	00:00	
Wed	13	Dec	00:00	-	Thu	14	Dec	00:00	
Thu	14	Dec	00:00	-	Fri	15	Dec	00:00	
Fri	15	Dec	00:00	-	Sat	16	Dec	00:00	
Sat	16	Dec	00:00	-	Sun	17	Dec	00:00	
Sun	17	Dec	00:00	-	Mon	18	Dec	00:00	
Mon	18	Dec	00:00	-	Tue	19	Dec	00:00	
Tue	19	Dec	00:00	-	Wed	20	Dec	00:00	
Wed	20	Dec	00:00	-	Thu	21	Dec	00:00	
Thu	21	Dec	00:00	-	Fri	22	Dec	00:00	
Fri	22	Dec	00:00	-	Sat	23	Dec	00:00	
Sat	23	Dec	00:00	-	Sun	24	Dec	00:00	
Sun	24	Dec	00:00	-	Mon	25	Dec	00:00	
Mon	25	Dec	00:00	-	Tue	26	Dec	00:00	
Tue	26	Dec	00:00	-	Wed	27	Dec	00:00	
Wed	27	Dec	00:00	-	Thu	28	Dec	00:00	
Thu	28	Dec	00:00	-	Fri	29	Dec	00:00	
Fri	29	Dec	00:00	-	Sat	30	Dec	00:00	
Sat	30	Dec	00:00	-	Sun	31	Dec	00:00	
Sun	31	Dec	00:00	-	Mon	01	Jan	00:00	

## APPENDIX B – MAF LOCATION



Resident Car Park access will be allocated to Hume Street Car Park

40m North from Gate D - Road Closure required only to store construction machinery/materials 24/7

Resident access driveway will be maintained all times

GATE D

Footpath will be always open and A W Edwards will assist garbage collection, deliveries and emergency services

## APPENDIX C – COMMUNITY CONSULTATION



# Project Update – Crows Nest Station

October 2023

Sydney Metro is Australia's biggest public transport project

Services started in May 2019 in the city's North West with a train every four minutes in the peak. Metro rail will be extended into the CBD in 2024, with new metro railway stations at Crows Nest, Victoria Cross, Barangaroo, Martin Place, Pitt Street and Waterloo, and new metro platforms at Central, and then onto Bankstown in 2025.

A W Edwards is building the new Crows Nest Station. Rail track installation and the stations main structural works are now complete and fit out and exterior works are progressing.

The Crows Nest Station site will be closed:

- **Saturday 30 September to Tuesday 3 October 2023** inclusive.

Some low impact activities such as security checks or minor maintenance checks may still take place during these dates.

## New work activities in October

### Hume Street water main connection – out-of-hours work

Work to install a new watermain along Clarke and Hume streets will continue in October. On **Saturday 7 October** the new watermain will be connected into the existing network at Clarke Street adjacent to the 7-11 Clarke Street building. This activity will occur at night between **10pm and 5am** the following morning which is when we have approval from the utility provider (Sydney Water) to work on their asset.

**This work will be noisy** as we will need to cut into and remove the existing pipe which will require use of a saw. Noisier activities are expected to be completed by midnight. A water outage will also be required for this work and Sydney Water will notify impacted properties in advance.

### Pacific Highway utility and intersection upgrades - out-of-hours-work

Work to install a new watermain along Pacific Highway is almost complete, however, there are some sections which may require night works given their location, including a pipe installation across the Pacific Highway between the east and west footpaths. The work will be coordinated to align with intersection work nights.

Work to upgrade the two existing Pacific Highway intersections at Oxley and Hume streets will continue in October. Works will occur between **7pm and 5am** the following morning for up to two consecutive nights at each intersection, and a maximum of four nights per week, weather permitting.

These works will **be noisy** as we will be cutting and digging into the road pavement and cutting and installing underground pipes and cables. **High noise works will stop at midnight.** Vacuum trucks will be used to remove dirt and debris.

Further information about locations of work will be included in our weekly e-news. **If you would like to subscribe to receive this information, please contact us.**

## Pacific Highway intersection upgrades night work calendar

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
September continued						October
25 Work at intersection 1 OR 2 (not both)	26	27 Work at intersection 1 OR 2 (not both)	28 Work at intersection 1 OR 2 (not both)	29	30	1
2	3	4 Work at intersection 1 OR 2 (not both)	5 Work at intersection 1 OR 2 (not both)	6	7	8 Work at intersection 1 OR 2 (not both)
9 Work at intersection 1 OR 2 (not both)	10	11 Work at intersection 1 OR 2 (not both)	12 Work at intersection 1 OR 2 (not both)	13	14	15 Work at intersection 1 OR 2 (not both)
16 Work at intersection 1 OR 2 (not both)	17	18 Work at intersection 1 OR 2 (not both)	19 Work at intersection 1 OR 2 (not both)	20	21	22 Work at intersection 1 OR 2 (not both)
23 Work at intersection 1 OR 2 (not both)	24	25 Work at intersection 1 OR 2 (not both)	26 Work at intersection 1 OR 2 (not both)	27	28	29 Work at intersection 1 OR 2 (not both)
30 Work at intersection 1 OR 2 (not both)	31	<div>Planned work nights</div> <div>Contingency work nights</div> <div>No intersection work on these nights</div>				

All other site activities, scheduled from Sunday 1 October to Tuesday 31 October 2023 are shown in the table below. Please note activities are indicative and subject to weather and site conditions. ROLS to be supplied to ER and SM

Standard construction hours are Monday to Friday 7am to 6pm, and Saturday 8am to 6pm	
Location	Detail (work may include but is not limited to the following activities)
Within Crows Nest Station site work area  (Sites A, B and C as depicted in the map overleaf).	<b>Key activities</b> <ul style="list-style-type: none"> <li>Installation of entrance awnings, brick façade panels and public art, and bricklaying.</li> <li>Removal of capping beam and foundation piles around the site perimeter involving saw cutting and jackhammering. Please see map overleaf for planned locations in October.</li> </ul> <b>Other general activities</b> <ul style="list-style-type: none"> <li>Formwork, reinforcement, steel fixing and installation and concrete pouring.</li> <li>Station fit-out work, including installation of precast elements, services and internal brick work, lights, railings, and panels.</li> <li>Installation and removal of scaffolding within and around the site perimeter.</li> </ul>
Surrounding streets: <ul style="list-style-type: none"> <li>Clarke Lane</li> <li>Clarke Street</li> <li>Hume Street</li> <li>Oxley Street</li> <li>Pacific Highway.</li> </ul>	<b>Key activities – Public domain works</b> <ul style="list-style-type: none"> <li>Completion of footpath, kerb and gutter work along Clarke Street (north of Hume Street), Hume Lane and Oxley Street including installation of tactiles, outdoor furniture, and landscaping. When work is carried out at Hume Lane a road closure will be in place for up to one week. We will notify the community in advance.</li> <li>Upgrading existing stormwater drainage, Sydney Water assets and utilities, which will involve saw cutting and hammering, and use of a vacuum truck on Pacific Highway, Hume and Clarke streets and Clarke Lane. Some of this work will require temporary removal of on-street parking.</li> <li>Scaffold removal requiring a footpath closure from <b>Monday 9 October for up to eight weeks</b> to allow for capping beam removal and footpath upgrade work to follow on Oxley Street. Please see below map and follow the direction of traffic control and signage.</li> <li>Installation of a temporary scaffold bridge in Clarke Lane <b>Saturday 7 October</b>. Access to to 22-26 Clarke Street driveway will be restricted. Businesses and residents will be contacted in advance to arrange alternate parking options.</li> </ul>

	<ul style="list-style-type: none"> <li>Installation of external brick facade panels within Clarke Lane. When this occurs access to 22-26 Clarke Street driveway will be restricted. Businesses and residents will be contacted in advance to arrange alternate parking options.</li> </ul> <p><b>Other general activities</b></p> <ul style="list-style-type: none"> <li>Establishing temporary work areas with barriers, noise blankets, and fencing.</li> <li>Delivery and removal of equipment, machinery, and materials.</li> <li>Concrete deliveries and pours and mobile crane use via Clarke Lane, Hume Street and Pacific Highway. When this occurs on Clarke Lane (south) and/or Hume Street between Clarke Lane north and south, access to Clarke Lane via Hume Street will be restricted. Clarke Lane will be converted into two-way access via Clarke Street at Hume Lane. Pedestrian detour on Pacific Highway, in front of Site A remains. Please follow traffic control and signage.</li> </ul>
<p><b>Work taking place outside standard construction hours</b></p> <p><i>Note: some of the work that will be occurring outside standard construction hours are low impact or covered by completed upper levels, so no additional noise impacts are expected. Site lights will remain on, and worker lifts will be operational. Short periods of noise may be expected.</i></p>	
<b>Location</b>	<b>Detail (work may include but is not limited to the following activities)</b>
<p>Within Crows Nest Station site work area</p> <p>(Sites A, B and C as depicted in the map overleaf).</p>	<p><b>Activities approved 24/7 Monday to Sunday</b></p> <ul style="list-style-type: none"> <li>Delivery and mobile crane lifts of equipment and materials via delivery lane on Pacific Highway.</li> <li>Station box and tunnel fit out works.</li> <li>Testing and commissioning of electrical services and systems, and dynamic train testing in the tunnels. Systems Connect will also be testing the station fans and ventilation systems.</li> </ul> <p><b>From 6pm to 10pm Monday to Saturday and 8am to 10pm Sunday</b></p> <ul style="list-style-type: none"> <li>Formwork, steel fixing and structural steel installation, and rigging.</li> <li>Delivery and tower crane lifts of equipment and materials.</li> <li>Concrete finishing work can continue up until 12 midnight.</li> </ul>
<p>Surrounding streets:</p> <ul style="list-style-type: none"> <li>Clarke Lane</li> <li>Clarke Street</li> <li>Hume Street</li> <li>Oxley Street</li> <li>Pacific Highway.</li> </ul>	<p><b>From 6pm to 10pm Monday to Sunday</b></p> <ul style="list-style-type: none"> <li>Concrete pours via Clarke Lane and Pacific Highway.</li> <li>Completion of footpath work at the intersection of Hume Lane and Clarke Street (subject to approval).</li> <li>Upgrading utilities, which will involve saw cutting and hammering, and use of a vacuum truck on Pacific Highway, and utility connection activity at Clarke Street (subject to approvals).</li> <li>Intersection upgrade work along Pacific Highway at Hume and Oxley streets as described above. High noise activities to be completed before 12am.</li> </ul> <p><b>From 10pm to 5am the following morning</b></p> <ul style="list-style-type: none"> <li>Delivery of oversize components to the site via Pacific Highway. Exact dates for these oversize, overnight deliveries will be communicated in our weekly e-news.</li> <li>Lifting components from transport vehicles into our work area via cranes.</li> <li>Upgrading utilities, which will involve saw cutting and hammering, and use of a vacuum truck on Hume Street and Pacific Highway (subject to approval). High noise activities to be completed before 12am.</li> <li>Intersection upgrade work along Pacific Highway at Hume and Oxley streets as described above. High noise activities to be completed before 12am.</li> </ul>

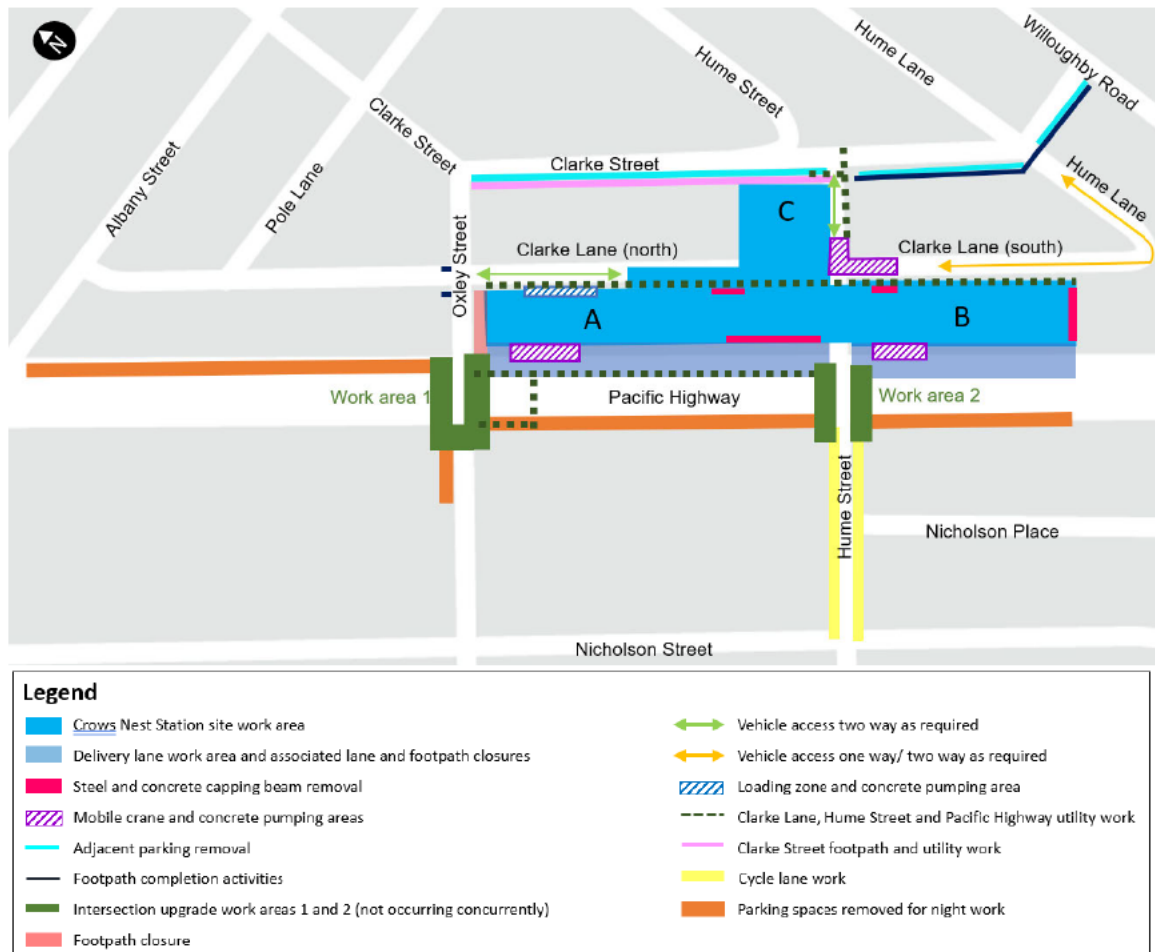
### What to expect

- Equipment used will include, but is not limited to, handheld and electric tools, power drills, cranes, elevated work platforms, excavators, generators, compaction equipment, jackhammers, lighting towers, concrete trucks, mixers and pumps, light and heavy vehicles, delivery and vacuum trucks, pavement and pipe cutters, welding equipment.
- Some of this work will be noisy, particularly when carrying out capping beam removal and our public domain**

**works and night work on Pacific Highway.** Please read our noise and vibration factsheet for information about how we're managing impacts. This is available to view on <https://www.sydneymetro.info/documents>.

- **Some work will block sections of footpath and road, and adjacent parking spaces will temporarily be removed. Businesses remain open during works.** Traffic control and signage will be in place to safely direct motorists, pedestrians, and cyclists through these changes. **Please plan ahead and allow extra time for your journey.**
- More information on specific start and end dates and any other important updates or changes will be provided in our weekly e-news. Sign up to receive these by sending your name and email address to our contact details below.

### October 2023 work area and access map (diagram not to scale, indicative only)



**Thank you for your cooperation and understanding while we complete this essential work.**

If you have any questions about Crows Nest Station, please call 1800 171 386 (24-hour community information line) and ask for the **Crows Nest Station team** or email [crowsnestmetrostation@transport.nsw.gov.au](mailto:crowsnestmetrostation@transport.nsw.gov.au)

For questions about testing and commissioning of fans and ventilation systems, please call 1800 171 386 (24-hour community information line) and ask for the **Systems Connect team** or email [linewidemetrometro@transport.nsw.gov.au](mailto:linewidemetrometro@transport.nsw.gov.au)



#### Translating and interpreting service

If you need help understanding this information, please contact the Translating and Interpreting Service on **131 450** and ask them to call us on **1800 171 386**.

#### Have your say

We would love to hear any feedback you have on our communications or construction activities, please submit your feedback by scanning the QR code.





**APPENDIX D – ASSESSMENT OF TOTAL NOISE IMPACTS AT 22-26 CLARKE  
STREET AND ATTENDED VERIFICATION NOISE DATA SHEETS**

## MEMORANDUM PA 4302

Table 2 Assessment of Total Noise Impacts at Nearest Sensitive Receiver (22-26 Clarke Street) when pumping concrete from the proposed location in the minor ancillary facility

Date/Time	Plant/Equipment	Receiver Type	Distance to Receiver (10m)	Measured Total Noise Level at 22-26 Clarke Street (Façade 10m from concrete pump)	Predicted Total Noise at 22-26 Clarke Street OOH 25 (i.e. worst case scenario)	Comment
21/04/2022 10:55	1 x Concrete Agitator 1 x Concrete Pump	Res	10	70.8	73	Concrete pump and agitator operating throughout the duration of monitoring period

The measured level at 22-26 Clarke Street in Table 2 above is a total noise level that was measured while there was a concrete agitator and concrete pump operating in the minor ancillary facility. In addition to the concrete agitator and pump operating, other site activities that were taking place during the measurement period included:

- Hoist operation
- Tower crane 1 and Tower crane 2 both operating
- Waterproofing
- Steel Fixing
- Formwork
- Fitout works below slab
- Deliveries via Pacific Highway logistics lane
- Concrete agitator and concrete pump operating from the logistics land, adjacent to the Pacific Highway

The total noise levels measured in Table 2 complied with the activities that were approved in OOH 10 at the time of measurement. OOH 10 has since been superseded by OOH 25, which has reduced activities and work areas. The reduction in activities and work areas has reduced the predicted total noise level from 75dBA to 73dBA at 22-26 Clarke Street (in OOH 25). The attended noise verification monitoring and assessment in Table 2 demonstrates that the concrete pour location does not increase the predicted total noise level at nearby receivers. There is a possibility, on rare occasions, that the concrete pumping location at Clarke Lane North will be operated simultaneously to the operation to the concrete pour location in the MAF. These two pour locations are equidistant from 22-26 Clarke Street and the total

**MEMORANDUM PA 4302**

---

noise may be increased by up to 3dB due to operation of multiple plant with the same sound power levels at the same distance. In this scenario the total noise at 22-26 Clarke Street would be 73.8 dBA and would not be a perceptible increase to the total noise level predicted in OOH 25.



- Legend**
- ⊙ Bus stops
  - ⊕ Stormwater pits
  - Ⓢ Traffic signals
  - ★ Indicative concrete pumping locations
  - ⊙ Noise monitoring
  - ⬜ LGA boundary
  - ⬜ Crows Nest integrated station development (ISD)
  - 🌳 Trees
  - ⬜ Indicative tower crane location
  - ⬜ Site amenities
  - 🔵 Work zone (occupied during approved times)
  - Acoustic hoarding / fencing
  - ⬜ Sydney Metro West underground railway
- Receivers**
- 🟢 Receiver (Residential)
  - 🟡 Receiver (Childcare)
  - 🟠 Receiver (Commercial)
  - 🟡 Receiver (Place of worship)
- ➡ Clean water direction
- 🟢 Pit protection
- ⬜ Coir log / sandbag
- 🟡 Material Storage
- 🟠 MAF Area



0 10 20 30 40 50 m

<b>A W EDWARDS</b>	DRAWING TITLE	ENVIRONMENTAL CONTROL MAP AND PESCP	DRAWN	T.McCarthy
	PROJECT NAME	CROWS NEST CONSTRUCT ONLY PACKAGE	REVIEWED	D. GREEN
	LOCATION	CROWS NEST, NORTH SYDNEY	REVISION NO.	3
	SHEET NUMBER	1	REVISION DATE	1/11/2023



## PESCP and ECM Requirements

### Construction notes:

1. Coir logs or sandbags to be placed downstream of stockpiled material and stockpiles to be covered with geofabric prior to rain events
2. Road sweepers to be used to clean hardstand surfaces as required to reduce dust and sedimentation of storm water drains
3. Pit protection (drain wardens, geofabric covered grates) to be in position prior to work commencing
4. Dust suppression to be in place for all work with potential to generate dust
5. Inspection following wet weather (greater than 25mm rainfall) to take place to check controls
6. Controls to be maintained prior to heavy rainfall events and long weekend shut downs
7. Suitable protection to be provided around disturbed areas and garden beds
8. Cover all loads before transporting material from site

### Noise mitigation measures required for all high noise work:

- Community notifications are required prior to work
- Noise blankets to be erected (overlap, no gaps, soft padded side facing inwards)
- Respite to be provided (work only 8am-12pm and 2pm-6pm M-F and 8am-12pm Saturdays)

### Noise barriers in place for all high noise work



### Drainage protection example for local roads

