



# Crows Nest Station

May 2021

## Station construction is underway

**A W Edwards started work to prepare the Crows Nest Station site in January 2021.**

One of the first activities was to deliver and install two tower cranes in the station box. Due to their size, the tower cranes were delivered in the early hours of the morning to ensure public safety and minimise traffic disruption.

Another significant activity carried out was establishing a dedicated delivery lane on Pacific Highway. This lane will contain the majority of truck and trailer vehicle movements to Pacific Highway and reduce the impact on local roads. The lane will be in use until late 2022.

A double-stacked site office was also built onsite and lifted into place at the corner of Hume and Clarke streets via crane. These offices will be used by the team working on the station. A project office was also set up nearby for staff who are managing project delivery. Over the coming weeks, two overhead walkways will be built over Clarke Lane, connecting offices to the station site. A working platform and storage area will also be installed above Clarke Lane and Hume Street within our work area.

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 and beyond to Bankstown in 2024. There will be new CBD metro railway stations at Martin Place, Pitt Street and Barangaroo and new metro platforms at Central.

In 2024, Sydney will have 31 metro railway stations and a 66-kilometre standalone metro railway system. There will be ultimate capacity for a metro train every two minutes in each direction under the Sydney city centre.

A W Edwards has been contracted to build Crows Nest Station. Station box excavation and tunnelling is now complete and rail track installation is underway. Work is underway to build Crows Nest Station, ready for Sydney Metro services to start in 2024.

## Preparing the station box

Work is continuing to prepare the station box ahead of construction starting on the station underground. This includes installing waterproofing membrane on the internal perimeter walls, excavating and installing footings and services, building a base floor that the station structure will sit on, removing existing worker access and installing new walkways connecting surrounding offices to the station box.

In addition to the two tower cranes that were installed onsite in January and February, you may have noticed some other large equipment being installed and used on site. This includes a 33-metre-high man and materials lift, and concrete placing towers, which concrete will be fed through to via Clarke Lane for placement around the station box.

## Building up to ground level

Once preparation works within the station box are complete, work will start to build the station structure from the base level up to street level (distance from base level to street level is 25 metres). Activities will include building perimeter walls, station floors, staircases, dividing walls, and fitting over track exhaust ducts and other services and components required to operate the station.

The building of perimeter walls will be one of the key activities as it involves creating a concrete wall, up to 1.2 metres-thick, around the station box perimeter. To build these walls, formwork will first need to be installed against the waterproofed perimeter walls of the excavated station box area. The formwork will be made of timber, supported by steel frames, which will act as a bracing.



Waterproofing membrane is installed on internal perimeter

Concrete will then be pumped inside the formwork via large concrete placing towers to form an initial nine-metre-high wall.

This activity will be undertaken in sections until the whole perimeter is complete and will involve many concrete deliveries to the site via Clarke Lane.

Precast concrete beams and planks will be made offsite and delivered to site on oversized trucks. The beams will be placed on top of the concrete walls to form the different station levels. Planks will be placed between concrete beams to form the floors, and other precast concrete units will also be used to divide the station area.

Due to their size, the beams, planks and platform units will be delivered and lifted into site at night and in the early hours of the morning to ensure public safety and minimise traffic disruption.

Our two tower cranes will be used to lift these large components into place to form the different levels of the station buildings. These will include the platform and concourse areas, and the rooms that will house the equipment and services needed to run the future station.



Artists impression depicting station perimeter walls being built.



While building up to street level, the team will need to store, pre-assemble and prepare large structural elements and components required to build the station, and remove and rebuild a section of Hume Street between Clarke Lane and Pacific Highway. This will require a nine-month closure of Hume Street between Clarke Lane and Pacific Highway. We expect this closure to occur at the end of July. We will update the community once dates are confirmed.

## Six-month lookahead

\*Months and duration are indicative and subject to change

Activity	May	June	July	August	September	October
Delivering and installing equipment, machinery and worker amenities	○	○				
Installing overhead walkways, working platforms and storage areas	○	○				
Waterproofing the station box	○	○	○			
Building the station basement floor	○	○	○			
Building concrete wall around the station box perimeter	○	○	○	○	○	○
Receiving deliveries of pre-cast beams, planks and platforms, and installing them in the station area		○	○	○	○	○
Closure of Hume Street between Clarke Lane and Pacific Highway			○	○	○	○
Receiving concrete deliveries	○	○	○	○	○	○



We have developed a Sydney Metro Crows Nest Station construction overview explaining the key construction phases, activities and milestones so that you know what to expect. This can be found in the document library on our dedicated Crows Nest Station website [www.crowsnestmetrostation.com.au](http://www.crowsnestmetrostation.com.au), or by clicking on the following link [Crows Nest Station construction overview](#).



Our two tower cranes, Giraffe and Muscles, stand tall at the Crows Nest Station site

### Meet Muscles and Giraffe

In February the Crows Nest Station team asked two local childcare centres to help name their two tower cranes. The children at the FROEBEL St Leonards Early Learning Centre named the crane north of Hume Street, Giraffe. The children at Kelly's Place Children's Centre named the crane south of Hume Street, Muscles.

These cranes are a key component of the Crows Nest Station build as they will transport equipment, materials and plant to and from the station box. At first, they will need to reach a depth of 25 metres below ground where the station platform will be, and then gradually lift between different depths as the station buildings are built up.



Muscles lifts scaffolding down into the station box

### Fun facts about our tower cranes



Our tower cranes are some of the largest capacity tower cranes in the world and can safely lift up to 330 tonnes.



Muscles stands 159 metres tall and Giraffe is 130 metres tall.



Our crane operators climb 220 steps to reach the operator box.

## Watch out, trucks about

Over the next few months our activities on site will increase. This means you will notice an increase in construction vehicles travelling to and from the site, and changes to traffic conditions and access. The main streets our construction vehicles will travel on are Pacific Highway, Clarke Lane, Oxley, Clarke and Albany Streets.

Please take care when travelling around the Crows Nest Station site, follow the direction of signage and traffic control, and allow extra time for your journey.



Traffic controller managing concrete deliveries on Hume Street

## Extended work hours at Crows Nest Station

On 25 March 2021, the NSW Government extended the prescribed period for implementing changes to standard working hours due to COVID-19 **until 31 March 2022**. The extended work hours are part of the NSW Government's efforts to support the State's economic recovery, protect the health and safety of the community and ensure businesses are able to adapt and respond to changing needs.

A W Edwards has implemented extended working hours at the Crows Nest Station site from **Saturday 10 April 2021 to Monday 31 March 2022 from 7am to 6pm on Saturdays and Sundays**.

During the extended hours on **Saturday 7am to 8am and 1pm to 6pm, and Sunday 7am to 6pm**, there will be no high noise activities such as rock breaking, rock hammering, sheet piling and pile driving taking place. This allows construction activities to occur **Monday to Sunday, 7am to 6pm**.

All applicable noise and vibration controls will remain in place at all times, including respite periods, noise and vibration monitoring, appropriate selection of equipment and use of non-tonal reverse alarms.

## Keeping you informed



We have developed a noise and vibration fact sheet explaining the types of activities being undertaken to build Sydney Metro Crows Nest Station and what we are doing to help reduce and manage potential noise and vibration impacts.

This document can be found in the document library on the Sydney Metro website - [sydneymetro.info](https://www.sydneymetro.info), or by clicking on the following link [Construction noise and vibration factsheet](#).



In addition to bi-annual newsletters and monthly notifications, we also send out weekly email updates confirming dates and locations of upcoming work, including access changes to registered residents and businesses.





If you would like to receive these updates please send us your contact details including your name, address, email and phone number to [crowsnestmetrostation@transport.gov.au](mailto:crowsnestmetrostation@transport.gov.au)

The construction team will continue to work to minimise impacts from construction wherever possible. The community will be kept informed about upcoming activities through all stages of the project, so you know what to expect.



Artist impression of underground concourse level

## Contact Us

-  **1800 171 386** Community information line open 24 hours
-  [crowsnestmetrostation@transport.nsw.gov.au](mailto:crowsnestmetrostation@transport.nsw.gov.au)
-  Sydney Metro City & Southwest, PO Box K659, Haymarket NSW 1240
-  If you need an interpreter, contact TIS National on 131 450 and ask them to call 1800 171 386.