

20 May 2022

Project/File: 301400193

Allen Walker

Health Infrastructure

C/- Johnstaff

Level 5, 9 Castlereagh Street

SYDNEY NSW 2000

Dear Allen

Reference: Liverpool Hospital Multi-Storey Car Park Project (SSD-10388) - Condition D11 Local Traffic Management Plan

Stantec is providing traffic and transport services to Health Infrastructure on the Liverpool Hospital Multi-Storey Car Park (MSCP) project (SSD-10388). The project involves the construction and operation of an eight level carpark at Liverpool Hospital, with 1,244 car parking spaces.

A Local Traffic Management Plan (LTMP) is required to address Condition D11 of the Development Consent SSD-10388. Condition D11 has been reproduced below:

Local Traffic Management Plan

D11. Prior to the commencement of operation, a local traffic management plan must be prepared in consultation with Council and the final submitted to Council outlining the traffic management scheme, including signs and line marking, along the access road to/from the car park.

The LTMP is attached to this letter, which clearly outlines the signage and line marking along Burnside Drive on approach and departure from the MSCP.

Should you have any questions or require any further information, please do not hesitate to contact me on (02) 8448 1800.

Yours sincerely

STANTEC AUSTRALIA PTY LTD

Brett Maynard

Senior Principal Transportation Engineer

Encl.

Appendix 1 – Local Traffic Management Plan

Appendix 2 – Summary of Burnside Drive Wayfinding Package

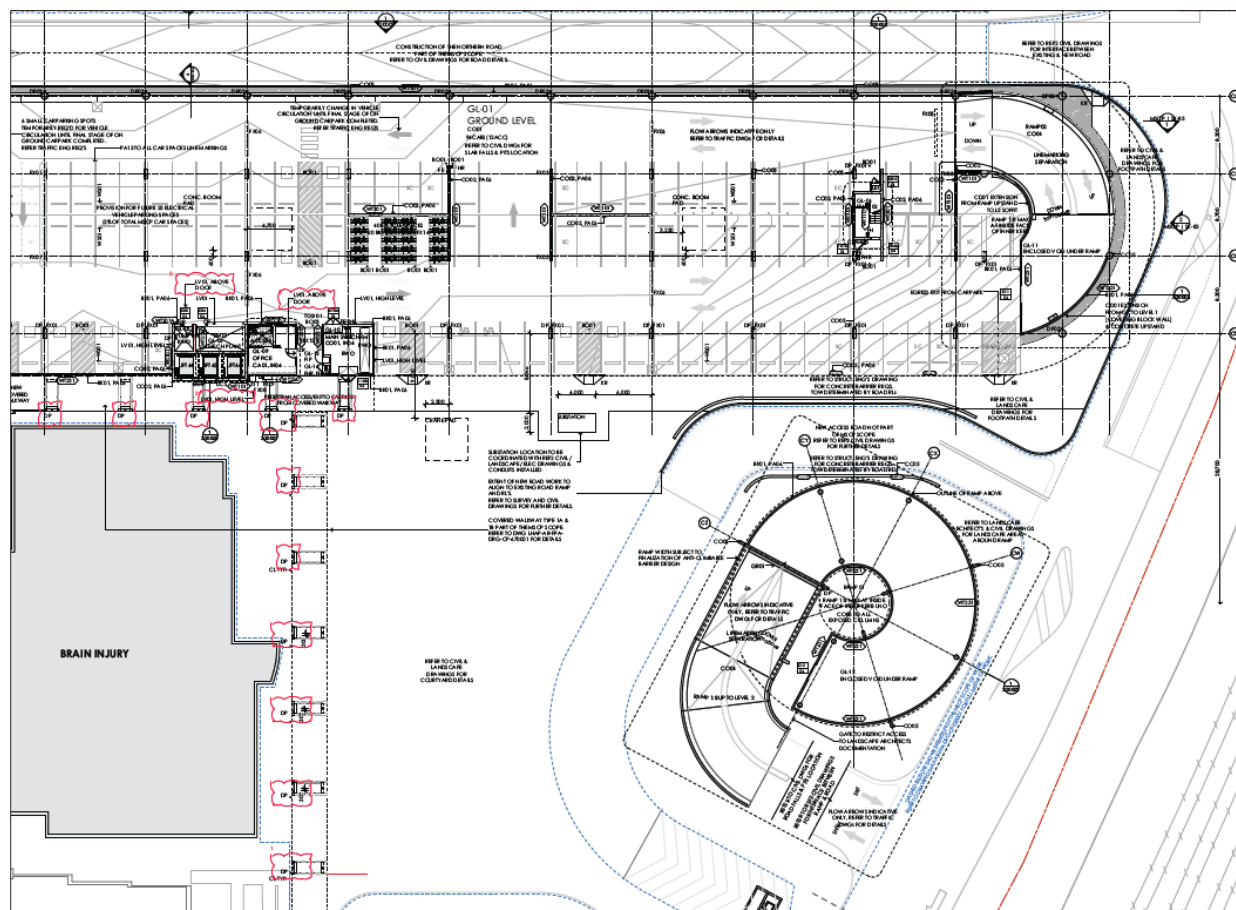
Appendix 1 - Local Traffic Management Plan

1 Introduction

The project includes the construction of an eight-level car park on the north-east corner of the western campus at Liverpool Hospital. The car park has been designed as a Class 3 car park and accommodates 1,244 spaces. It will be known as Car Park 2 (P2) within the Liverpool Health and Academic Precinct.

The primary access to the MSCP is provided via Burnside Drive, which has been realigned as part of the broader hospital redevelopment, with this access connecting with Level 2 of the car park. A secondary access will be provided as part of the broader Liverpool Hospital Redevelopment Main Works (expected to be completed by 2026) via Forbes Street. This secondary access will link with the at-grade car park and pick-up/ drop-off loop to the west, with a vehicle ramp on the eastern side of the site providing access into Level 1 of the MSCP. The ground floor plan for the MSCP is shown in Figure 1.

Figure 1: MSCP Ground Floor Plan

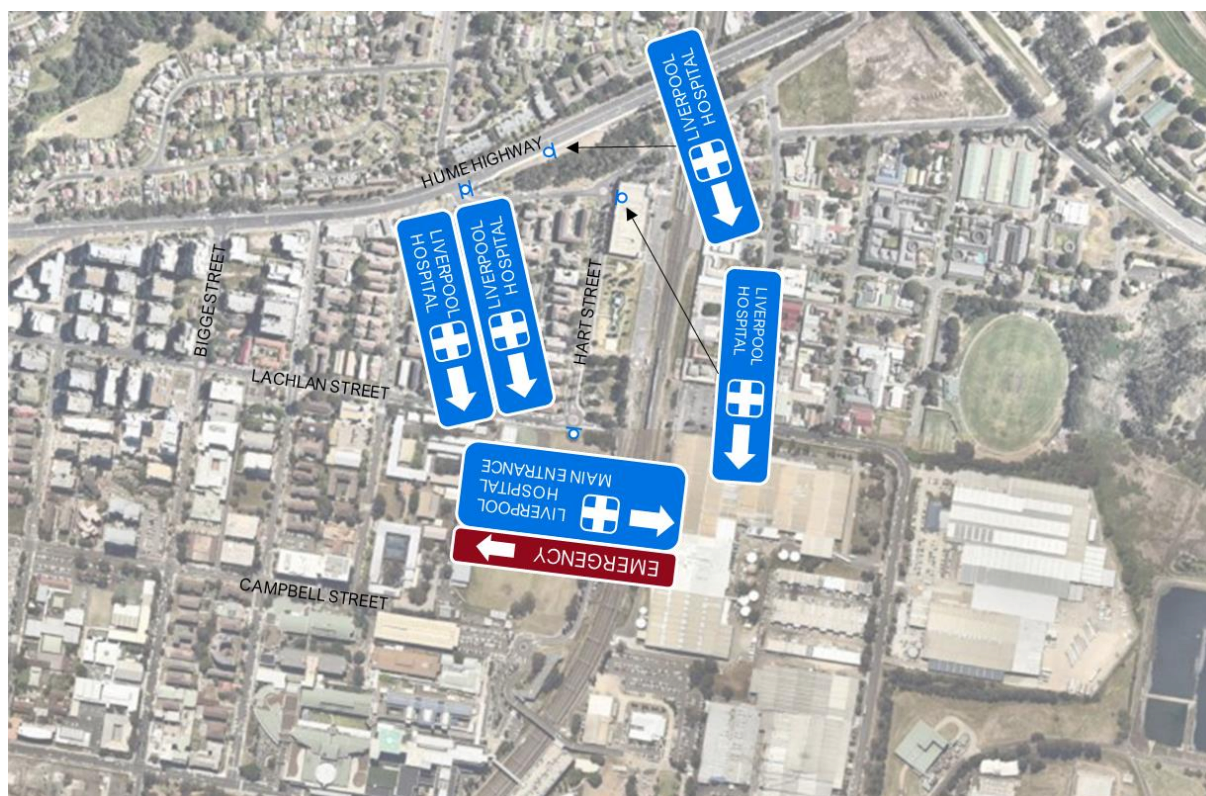


Source: Fitzpatrick+Partners, General Arrangement Plans - Ground Floor | 02, Drawing Number: LHAP-AR-FPA-DRG-CP-110002 dated 15 October 2021

2 Wayfinding on Approach to the MSCP

In general, the MSCP would primarily be used by staff and visitors travelling to/ from the north and west via the Hume Highway. Service signposting currently exists along the Hume Highway to direct people visiting the hospital to use Remembrance Avenue, Hart Street, Lachlan Street and Burnside Drive to connect with the MSCP. The existing wayfinding signage directing drivers along this route is shown indicatively in Figure 2.

Figure 2: Wayfinding on approach to the hospital



Base image source: Nearmap

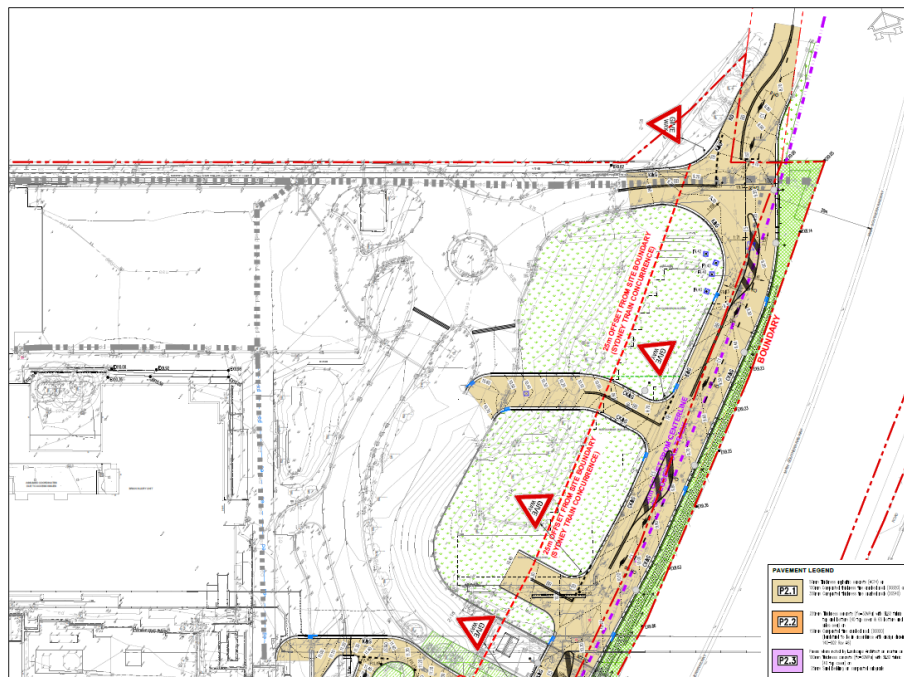
Once on Burnside Drive, a series of wayfinding signs will be installed to advise drivers of where to travel to connect with various areas of the hospital including the MSCP. The wayfinding strategy on Burnside Drive relating to directional signage to P2 (the MSCP) is provided in Appendix 2. This includes directional signage to P2 from the Entrance G pick-up/ drop-off loop to the south.

3 Burnside Drive Traffic Management

As part of previous precinct works, signage and linemarking was implemented along Burnside Drive to consider the new alignment of Burnside Drive and new intersections along the road including the access to the MSCP. While some temporary modifications have been made to the signage and linemarking along Burnside Drive during the construction of the MSCP, the signage and linemarking arrangement will revert to the previously approved permanent arrangements upon completion of construction of the MSCP (however retaining some minor safety improvements that were implemented following opening of these arrangements to traffic).

The signage and linemarking arrangement that has been implemented along Burnside Drive on approach and departure from the MSCP is shown in Figure 3 and Figure 4.

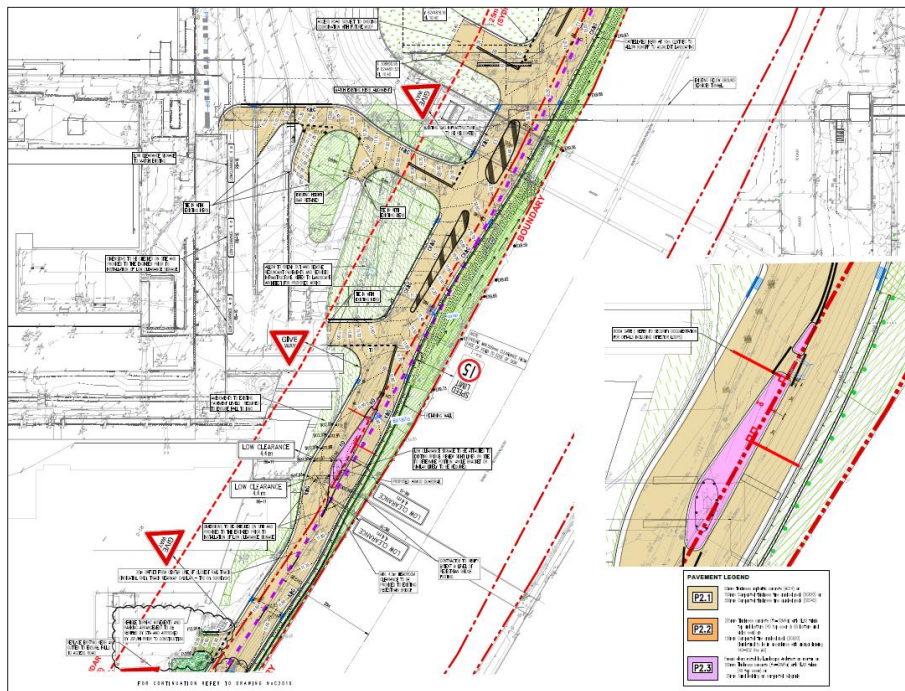
Figure 3: Burnside Drive linemarking (Part 1 – North)



Source: TTW, REF 2 - Proposed Road Siteworks Plan Sheet 1, Drawing Number: LHAP-CI-TTW-DRG-IW-002014 dated 18 December 2020

Reference: Liverpool Hospital Multi-Storey Car Park Project (SSD-10388) - Condition D11 Local Traffic Management Plan

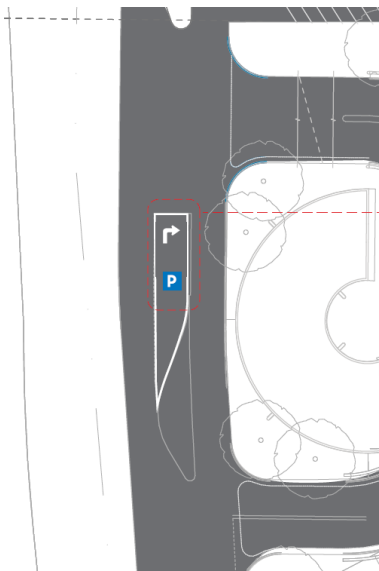
Figure 4: Burnside Drive linemarking (Part 2 – South)



Source: TTW, REF 2 - Proposed Road Siteworks Plan Sheet 2, Drawing Number: LHAP-CI-TTW-DRG-IW-002015 dated 18 December 2020

In addition to the above, the short right turn bay into the MSCP will be linemarked with a parking graphic as part of the MSCP wayfinding package, as shown in Figure 5.

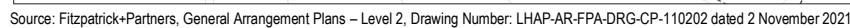
Figure 5: Proposed linemarking as part of MSCP wayfinding package



Source: Urbanite, G1.B Road Graphics Staff Parking, Drawing Number: LHAP-SI-URB-DRG-MW-053121 dated 23 October 2020

As detailed in Section 1, the ramp from Burnside Drive will connect with Level 2 of the MSCP. The ramp will be a two-way two-lane ramp, which will widen to four lanes where it connects with Level 2 of the MSCP. Boom gates will be provided at the top of the ramp to control entry and exit to/ from the MSCP. During the AM peak period when there is a higher portion of vehicles entering the car park, three lanes will be used for inbound vehicles, while one lane will be available for outbound vehicles. In the PM peak period when there is a higher portion of vehicles exiting the car park, three lanes will be used for outbound vehicles and one lane will be available for inbound vehicles. Outside these peak periods, two lanes will be used for inbound vehicles and outbound vehicles respectively.

Figure 6: Burnside Drive MSCP access controls



Design with community in mind

Reference: Liverpool Hospital Multi-Storey Car Park Project (SSD-10388) - Condition D11 Local Traffic Management Plan

East-west vehicle access between Forbes Street and Burnside Drive will also be available using a link road located immediately north of the MSCP. Additional car park wayfinding will not be provided between the two MSCP access points as the intention is that vehicles arriving via Forbes Street (and typically using the new pick-up/ drop-off) will use the secondary car park access, while all general visitor activity is directed to Burnside Drive from the external road network and will therefore use the primary access ramp from Burnside Drive.

5 Summary

When the new MSCP (known as P2) opens in 2022, access will be via a ramp from Burnside Drive, with wayfinding as follows:

- Existing signage directs drivers to the hospital from the Hume Highway through to Burnside Drive (Figure 1).
- Upon entering the hospital precinct (at the northern link road), wayfinding signage directs drivers to P2 (MSCP), being straight ahead (Appendix 2).
- At the following intersection to the south, wayfinding signage reinforces that P2 is straight ahead (Appendix 2).
- At the MSCP access ramp, intersection wayfinding signage directs drivers to turn right to access P2 (Appendix 2), along with a pavement symbol to reinforce the message (Figure 5).
- At the top of the ramp, wayfinding signage indicates arrival at P2 and provides information on the tidal flow entry/exit lane arrangements.
- Similar signage is provided to direct drivers to P2 from the Entrance G pick-up/ drop-off loop (Appendix 2).

Appropriate signage and linemarking has been provided in Burnside Drive on approach to the MSCP access ramp. The Burnside Drive traffic management arrangements have been in place for at least 12 months, with an operation review completed and minor improvements implemented. Temporary traffic arrangements that have been implemented for the MSCP construction will be removed upon completion of the works.

The western secondary access to the MSCP via Forbes Street, along with the east-west link road located immediately north of the MSCP, is scheduled for completion in 2026 as part of the Liverpool Hospital Redevelopment Main Works and not included in this management plan.

Reference: Liverpool Hospital Multi-Storey Car Park Project (SSD-10388) - Condition D11 Local Traffic Management Plan

Appendix 2 - Summary of Burnside Drive Wayfinding Package

BURNSIDE DRIVE WAYFINDING SUMMARY

DATE: 09/05/2022
DRAWING NO. 301400193-01-01-P1

- SIGN TYPE C1.A
- SIGN TYPE D1.B
- ... SIGN TYPE D1.E
- SIGN TYPE S2.A

[illegible]

C1.A **Car Park Entry**
Entry Portal

