

Traffic Engineer Referral Response

Application Number:	DA2022/1910
Proposed Development:	Demolition work and construction of a Residential Flat Building including basement car parking.
Date:	19/07/2023
Responsible Officer	
Land to be developed (Address):	Lot CP SP 2492 , 61 North Steyne MANLY NSW 2095

Officer comments

Supported, subject to conditions

The traffic team has reviewed the following documents:

- Plans (Master Set) – issue for DA, designed by Platform Architects, dated 28/10/2022,
- Transport Impact Assessment report, Project Number 2221, prepared by JMT Consulting dated 01 November 2022,
- Statement of Environmental Effects prepared by Ethos Urban dated 04 November 2022, and
- Pre-Lodgement Advice (PLM2022/0111) dated 07 July 2022.

It is noted in the Transport Impact Report and The SEE that:

- ten residential (10) parking spaces are proposed across two basement levels.
- visitor parking is proposed to be off-site, given the restriction of a car lift and the availability of off-street parking in close proximity to the site.
- the car lift is positioned greater than 6 metres inside the property boundary.
- the driveway width has been determined with reference to clause 3.2.2 from AS2890.1-2004 which notes that driveway ramps can be designed with reduced widths that do not permit unobstructed two-way traffic movements in situations where there are expected to be less than 30 vehicle movements (two way) per hour. Traffic movements have been anticipated to be between two and three vehicles per hour (worst case) which is well below the threshold noted in AS2890.1. The proposal therefore includes a 3.8-metre-wide driveway.
- clause 3.5 of AS2890.1 - 2004 regarding Access to Mechanical Parking Installations requires the 98th percentile queue to be accommodated on-site. For the development, the probability that one car or less will be using the lift at any one time is calculated to be 99.64%. As there is a probability of 99.64% that the lift will be in use by one car or less, the proposed access arrangements whereby a waiting area capable of accommodating one vehicle is provided in front of the lift complies with the requirements of Australian Standards. Given that there is less than a 0.36%, chance that two cars will be waiting on-site at the one time, no dedicated waiting bay is proposed to service the development.
- six (6) bicycle parking spaces are proposed. Additionally, basement storage areas can be utilized for additional bicycle parking.
- consistent with current conditions and commensurate for a residential building containing

just five dwellings, all site servicing (including waste collection) will take place via Denison Street.

Parking requirement and design

- The land is zoned R3 Medium Density Residential under Manly Local Environmental Plan 2013 (LEP). The parking requirements for the development comprising 5 apartments (4 x 3-bedroom and 1 x 2-bedroom apartments) are 7.2 residential parking spaces (rounded up to 8) and 1.25 visitor parking spaces (rounded up to 2).
- The development proposes a total of 10 residential car parking spaces including one disabled parking space. The plans do not make allowance for visitor parking spaces.
- Residential parking in excess of DCP requirement is proposed (10 residential spaces, exceeding the residential spaces requirement by 2 spaces), while the additional residential spaces are not opposed, given the shortfall in visitor parking spaces, the reallocation of one (1) of the residential spaces for visitor use is considered appropriate. This will be conditioned.
- The shortfall of visitor parking spaces is not considered acceptable given that:
 - o section 4.2.5.4 of Manly DCP gives some exceptions to parking rates/requirements in Manly Town Centre where the constraints of the site preclude the provision of some or all of the required parking spaces and where the movement of vehicles to/from the site would cause unacceptable conflict with pedestrian movements. This is not applicable to this site as the site is not constrained in terms of its ability to provide parking.
 - o there is a very high parking demand on the street nearby and public car parks (especially during summer or during events). Any increased parking demand on-street as a result of parking shortfall for this development will exacerbate existing high levels of parking congestion in the Manly Town Centre.
 - o there is no longer any capacity to levy contributions for parking from the Manly Section 94 Contributions plan, therefore each DA must now be considered on its merits in terms of the adequacy of parking.
- Given that residential parking supply meets DCP requirements, the parking needs of residents have been adequately addressed and residents of the development will therefore not be eligible for resident parking permits. This will be conditioned.
- As outlined in the PLM referral, visitor parking spaces will need to be accessed via the car lift. The car lift must therefore be accessible to visitors via an intercom or similar measures. Details will be conditioned to be provided prior to release of a construction certificate.
- An accessible parking spaces is proposed which meets the requirements of the DCP (Section 3.6.3.2) and will provide access to the premises for persons with a disability.
- Bicycle parking stands are also required at a minimum rate of one (1) stand for every three car parking spaces, with a minimum provision of one (1) stand for each premise, i.e., three (3) bicycle stand for the proposed development. Bicycle parking for six (6) bikes has been shown on the plan for basement 1, there are also basement storage areas which could be utilised for any additional bikes. This provision exceeds the requirements of the DCP, and therefore satisfying Council's DCP requirements and catering for alternate travel mode options.

Traffic generation

- The proposal will generate minimal traffic during peak periods; therefore, it will not have

any unacceptable implications in terms of road network capacity performance.

Conclusion

The traffic report and plans require minor amendments which will be conditioned however the amendments required are not sufficient to prevent the application from being supported.

The proposal is therefore supported.

Note: Should you have any concerns with the referral comments above, please discuss these with the Responsible Officer.

Recommended Traffic Engineer Conditions:

CONDITIONS TO BE SATISFIED PRIOR TO THE ISSUE OF THE CONSTRUCTION CERTIFICATE

Vehicular Swept Paths

Vehicular manoeuvring paths must be provided to demonstrate that the B85 vehicles can enter or depart from each parking space by no more than a 3 point turn without encroaching on adjacent car parking spaces as required by AS/NZS 2890.1 Table 1.1 for user class 1A. The drawings must be compliant with Australian/New Zealand Standard AS/NZS 2890.1:2004 - Parking facilities - Off-street car parking.

Details demonstrating compliance with this condition must be submitted to the Certifying Authority prior to the issue of the construction Certificate.

Reason: To ensure compliance with Australian Standards relating to manoeuvring, access and parking of vehicles.

Construction Traffic Management Plan

As a result of the site constraints, limited vehicle access and parking, a Construction Traffic Management Plan (CTMP) and report shall be prepared by a TfNSW accredited person and submitted to and approved by the Northern Beaches Council Traffic Team prior to issue of any Construction Certificate.

Due to heavy traffic congestion throughout the town centre, truck movements will be restricted during the major commuter peak times being 8.00-9.30am and 4.30-6.00pm. Truck movements must be agreed with Council's Traffic and Development Engineer prior to submission of the CTMP.

The CTMP must address following:

- The proposed phases of construction works on the site, and the expected duration of each construction phase
- The proposed order in which works on the site will be undertaken, and the method statements on how various stages of construction will be undertaken
- Make provision for all construction materials to be stored on site, at all times
- The proposed areas within the site to be used for the storage of excavated materials,

construction materials and waste containers during the construction period

- The proposed method of access to and egress from the site for construction vehicles, including access routes and truck routes through the Council area and the location and type of temporary vehicular crossing for the purpose of minimising traffic congestion and noise in the area, with no access across public parks or reserves being allowed
- The proposed method of loading and unloading excavation and construction machinery, excavation and building materials, formwork and the erection of any part of the structure within the site. Wherever possible mobile cranes should be located wholly within the site
- Make provision for parking onsite. All Staff and Contractors are to use the basement parking once available
- Temporary truck standing/ queuing locations in a public roadway/ domain in the vicinity of the site are not permitted unless approved by Council prior
- Include a Traffic Control Plan prepared by a person with suitable RMS accreditation for any activities involving the management of vehicle and pedestrian safety
- The proposed manner in which adjoining property owners will be kept advised of the timeframes for completion of each phase of development/construction process. It must also specify that a minimum Fourteen (14) days notification must be provided to adjoining property owners prior to the implementation of any temporary traffic control measure
- Include a site plan showing the location of any site sheds, location of requested Work Zones, anticipated use of cranes and concrete pumps, structures proposed on the footpath areas (hoardings, scaffolding or shoring) and any tree protection zones around Council street trees
- Take into consideration the combined construction activities of other development in the surrounding area. To this end, the consultant preparing the CTMP must engage and consult with developers undertaking major development works within a 250m radius of the subject site to ensure that appropriate measures are in place to prevent the combined impact of construction activities, such as (but not limited to) concrete pours, crane lifts and dump truck routes. These communications must be documented and submitted to Council prior to work commencing on site
- The proposed method/device to remove loose material from all vehicles and/or machinery before entering the road reserve, any run-off from the washing down of vehicles shall be directed to the sediment control system within the site
- Specify that the roadway (including footpath) must be kept in a serviceable condition for the duration of construction. At the direction of Council, undertake remedial treatments such as patching at no cost to Council
- The proposed method of support to any excavation adjacent to adjoining properties, or the road reserve. The proposed method of support is to be designed and certified by an appropriately qualified and practising Structural Engineer, or equivalent
- Proposed protection for Council and adjoining properties
- The location and operation of any on site crane

The CTMP shall be prepared in accordance with relevant sections of Australian Standard 1742 – “Manual of Uniform Traffic Control Devices”, RMS’ Manual – “Traffic Control at Work Sites”.

All fees and charges associated with the review of this plan is to be in accordance with Council’s Schedule of Fees and Charges and are to be paid at the time that the Construction Traffic Management Plan is submitted.

Reason: To ensure public safety and minimise any impacts to the adjoining pedestrian and vehicular traffic systems.

Vehicle Access & Parking

All internal driveways, vehicle turning areas, garages and vehicle parking space/ loading bay

dimensions must be designed and constructed to comply with the relevant section of AS 2890 (Off-street Parking standards).

With respect to this, the following revision(s) must be undertaken to the parking allocation:

- 9 residential spaces
- 1 residential visitor spaces

These amendment(s) must be clearly marked on the plans submitted to the Certifier prior to the issue of a Construction Certificate.

Reason: To ensure compliance with Australian Standards relating to manoeuvring, access and parking of vehicle.

Compliance with Standards

The development is required to be carried out in accordance with all relevant Australian Standards.

(Note: At the time of determination the following (but not limited to) Australian Standards applied:

- (a) AS2601.2001 - Demolition of Structures**
- (b) AS4361.2 - Guide to lead paint management - Residential and commercial buildings**
- (c) AS4282:1997 Control of the Obtrusive Effects of Outdoor Lighting**
- (d) AS 4373 - 2007 'Pruning of amenity trees' (Note: if approval is granted) **
- (e) AS 4970 - 2009 'Protection of trees on development sites'**
- (f) AS/NZS 2890.1:2004 Parking facilities - Off-street car parking**
- (g) AS 2890.2 - 2002 Parking facilities - Off-street commercial vehicle facilities**
- (h) AS 2890.3 - 1993 Parking facilities - Bicycle parking facilities**
- (i) AS 2890.5 - 1993 Parking facilities - On-street parking**
- (j) AS/NZS 2890.6 - 2009 Parking facilities - Off-street parking for people with disabilities**
- (k) AS 1742 Set - 2010 Manual of uniform traffic control devices Set**
- (l) AS 1428.1 – 2009* Design for access and mobility - General requirements for access – New building work**
- (m) AS 1428.2 – 1992*, Design for access and mobility - Enhanced and additional requirements - Buildings and facilities**

*Note: The Australian Human Rights Commission provides useful information and a guide relating to building accessibility entitled "the good the bad and the ugly: Design and construction for access". This information is available on the Australian Human Rights Commission website [www.hreoc.gov.au/disability rights /buildings/good.htm](http://www.hreoc.gov.au/disability%20rights%20/buildings/good.htm). <www.hreoc.gov.au/disability%20rights%20/buildings/good.htm>

**Note: the listed Australian Standards is not exhaustive and it is the responsibility of the applicant and the Certifier to ensure compliance with this condition and that the relevant Australian Standards are adhered to.)

Details demonstrating compliance with the relevant Australian Standard are to be submitted to the Certifier prior to the issue of the Construction Certificate.

Reason: To ensure the development is constructed in accordance with appropriate standards.

CONDITIONS THAT MUST BE ADDRESSED PRIOR TO ANY COMMENCEMENT

Work Zones and Permits

Prior to commencement of the associated works, the applicant shall obtain a Work Zone Permit where it is proposed to reserve an area of road pavement for the parking of vehicles associated with a construction site.

A separate application is required with a Traffic Management Plan for standing of construction vehicles in a trafficable lane and a Roads and Maritime Services Work Zone Permit shall be obtained for standing of vehicles on North Steyne.

Reason: To ensure Work zones are monitored and installed correctly.

Road Occupancy Licence

Prior to commencement of the associated works, the applicant shall obtain a Road Occupancy License from Transport Management Centre for any works that may impact on traffic flows on North Steyne.

Reason: Requirement of TMC for any works that impact on traffic flow.

Demolition Traffic Management Plan

As a result of the site constraints, limited vehicle access and parking, a Demolition Traffic Management Plan (DTMP) shall be prepared by an suitably accredited person and submitted to and approved by the Northern Beaches Council Traffic Team prior to commencing any demolition work.

Due to heavy traffic congestion throughout the area, truck movements will be restricted during the major commuter peak times being 8.00-9.30am and 4.30-6.00pm.

The DTMP must:-

- Make provision for all construction materials to be stored on site, at all times.
- The DTMP is to be adhered to at all times during the project.
- Specify construction truck routes and truck rates. Nominated truck routes are to be distributed over the surrounding road network where possible.
- Provide for the movement of trucks to and from the site, and deliveries to the site. Temporary truck standing/ queuing locations in a public roadway/ domain in the vicinity of the site is not permitted unless prior approval is granted by Council's Traffic Engineers.
- Specify that, due to the proximity of the site adjacent to ##### School, no heavy vehicle movements or construction activities effecting vehicle and pedestrian traffic are permitted in school zone hours (8:00am-9:30am and 2:30pm-4:00pm weekdays).
- Include a Traffic Control Plan prepared by an TfNSW accredited traffic controller for any activities involving the management of vehicle and pedestrian traffic.
- Specify that a minimum fourteen (14) days notification must be provided to adjoining property owners prior to the implementation of any temporary traffic control measures.
- Include a site plan showing the location of any site sheds, location of requested Work Zones, anticipated use of cranes, structures proposed on the footpath areas (hoardings, scaffolding or temporary shoring) and extent of tree protection zones around Council street trees.
- Take into consideration the combined construction activities of other development in the surrounding area. To this end, the consultant preparing the DTMP must engage and consult with developers undertaking major development works within a 250m radius of the subject site to ensure that appropriate measures are in place to prevent the combined impact of construction activities. These communications must be documented and submitted to Council prior to work commencing on site.
- Specify spoil management process and facilities to be used on site.
- Specify that the roadway (including footpath) must be kept in a serviceable condition for the duration of demolition. At the direction of Council, the applicant is to undertake remedial

treatments such as patching at no cost to Council.

The DTMP shall be prepared in accordance with relevant sections of Australian Standard 1742 – “Manual of Uniform Traffic Control Devices”, RMS’ Manual – “Traffic Control at Work Sites”.

All fees and charges associated with the review of this plan is to be in accordance with Council’s Schedule of Fees and Charges and are to be paid at the time that the Demolition Traffic Management Plan is submitted.

Reason: This condition is to ensure public safety and minimise any impacts to the adjoining pedestrian and vehicular traffic systems. The DTMP is intended to minimise impact of construction activities on the surrounding community, in terms of vehicle traffic (including traffic flow and parking) and pedestrian amenity adjacent to the site.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Implementation of Demolition Traffic Management Plan

All works and demolition activities are to be undertaken in accordance with the approved Demolition Traffic Management Plan (DTMP). All controls in the DTMP must be maintained at all times and all traffic management control must be undertaken by personnel having appropriate TfNSW accreditation. Should the implementation or effectiveness of the DTMP be impacted by surrounding major development not encompassed in the approved DTMP, the DTMP measures and controls are to be revised accordingly and submitted to Council for approval. A copy of the approved DTMP is to be kept onsite at all times and made available to the accredited certifier or Council on request.

Reason: To ensure compliance and Council’s ability to modify the approved Construction Traffic Management Plan where it is deemed unsuitable during the course of the project.

Implementation of Construction Traffic Management Plan

All works and construction activities are to be undertaken in accordance with the approved Construction Traffic Management Plan (CTMP). All controls in the CTMP must be maintained at all times and all traffic management control must be undertaken by personnel having appropriate TfNSW accreditation. Should the implementation or effectiveness of the CTMP be impacted by surrounding major development not encompassed in the approved CTMP, the CTMP measures and controls are to be revised accordingly and submitted to Council for approval. A copy of the approved CTMP is to be kept onsite at all times and made available to Council on request.

Reason: To ensure compliance of the developer/builder in adhering to the Construction Traffic Management procedures agreed and are held liable to the conditions of consent.

Ongoing Management

The applicant shall be responsible in ensuring that the road reserve remains in a serviceable state during the course of the demolition and building works.

Reason: To ensure public safety.

Construction Staff and Contractor Parking

The applicant is to make provision for parking for all construction staff and contractors for the duration of the project. All Staff and Contractors are to use the basement parking once available. All necessary facilities are to be provided to accommodate this requirement including lighting in the basement, security cameras, etc.

Reason: To ensure minimum impact of construction activity on local parking amenity.

CONDITIONS WHICH MUST BE COMPLIED WITH PRIOR TO THE ISSUE OF THE OCCUPATION CERTIFICATE

Allocation of parking spaces (strata title)

9 carparking spaces are to be assigned for residential parking and 1 space for visitor parking. All residential units must be assigned a minimum of one parking space. Details demonstrating compliance are to be submitted to the Principal Certifier prior to the issue of any Occupation Certificate.

Reason: To ensure parking availability for residents and visitors in accordance with the Manly Development Control Plan.

Disabled Parking Spaces

Where disabled parking spaces are provided they must be in accordance with AS2890.6:2009.

Details demonstrating compliance are to be submitted to the Principal Certifier prior to the issue of any Occupation Certificate.

Reason: To ensure compliance with Australian Standards.

Shared Zone Bollard

A bollard is to be provided at the shared zone between disabled spaces in accordance to Australian Standards AS2890.6:2009.

Details demonstrating compliance are to be submitted to the Principal Certifier prior to the issue of any Occupation Certificate.

Reason: To ensure compliance with Australian Standards.

ON-GOING CONDITIONS THAT MUST BE COMPLIED WITH AT ALL TIMES

Landscaping adjoining vehicular access

The applicant must ensure that the planting chosen for any land immediately adjacent to the driveway and adjacent to any driveway intersections must not exceed a height of 1,1m

Reason: To maintain unobstructed sight distance for motorists.

Parking Enclosure

No parking spaces, or access thereto, shall be constrained or enclosed by any form of structure such as fencing, cages, walls, storage space, or the like, without prior consent from Council.

Reason: To ensure accessibility is maintained.

Resident Parking Permit Scheme

Resident Parking Permit Scheme. Any residents and/or tenants of the subject site are not eligible for resident parking permits. This condition is to be provided on the property Title

Reason: To ensure the tenants are aware that they are not entitled to a permit regardless if they are within a Resident Parking Scheme (RPS).