

Traffic Engineer Referral Response

Application Number:	DA2021/2116
Date:	30/12/2021
Responsible Officer	
Land to be developed (Address):	Lot 103 DP 1247294 , 145 Old Pittwater Road BROOKVALE NSW 2100

Officer comments

The proposed development is for alterations and additions to an existing building to convert it from a childcare centre (which previously catered for 98 children) to an indoor swim centre and wellness centre. The development will comprise a 25m lap pool, a 15m pool for learn to swim, a wellness centre, reception and admin areas, a cafe for patrons and amenities/changerooms. The centre is proposed to operate seven days a week from 5am to midnight on weekdays, 5am to 10pm on Saturdays and 6am to 10pm on Sundays.

The 15m pool will cater for up to 6 children, the 25m pool will have a maximum capacity of 25 swimmers in classes or junior water polo, with a maximum of 2 staff on site at any time.

The wellness centre will and cafe will cater for up to 10 customers and a maximum of 2 staff at any time.

Traffic Generation:

The RMS Guide to Traffic Generating development does not nominate a rate for indoor swim centres but suggests that comparisons should be drawn with similar sites and traffic generation estimated based upon the predicted 85th percentile usage of the centre. The traffic and parking impact report has however adopted a first principles approach based upon both the pools and the wellness centre operating at capacity. Using such an approach, it has been estimated that the centre may generate up to 70 vehicle per hour during the am peak and 94 vph in the pm peak.

The 98 place childcare centre which previously operated from the site would however have generated approximately 78 vph (based on RMS Guide to Traffic Generating Development rates for Childcare centres) and the proposed development would therefore yield a net decrease in traffic in the am peak and a small increase (16vph) in the pm peak.

This level of traffic will not have an appreciable impact on traffic conditions in the surrounding road network and is acceptable

Parking:

The Warringah DCOp does not nominate a parking rate for indoor swim centres and the applicants traffic consultant has estimated the parking requirements for the development based upon both the pools and wellness centre operating at capacity. Using this analysis and assuming all clients drive to the site the development has been estimated to generate a demand for 51 parking spaces. In practice some customers will use public transport or may undertake combined trips and do some shopping while their children attend swim classes.

The developer does however propose to provide 53 parking spaces including 2 accessible spaces, which is considered adequate to support the use and exceeds the estimated parking demand generated by the development. Given that the site is located within Warringah Mall precinct, extensive parking (4500 spaces) is also available to support that retail use and many parents may utilise that parking if they do some shopping while their parents attend swim classes.

the parking layout is acceptable and other than designating two spaces as disabled parking, the parking configuration is unchanged

Access:

Access to the site will be obtained via the existing driveway to Old Pittwater Road and is acceptable

Loading/Serviceing:

Serving of the development will be undertaken from a service vehicle area at the south western corner of the building. This area can be accessed by a B99 vehicle. As some deliveries eg of pool chemicals will be undertaken by larger vehicles and are of a more hazardous nature, the centres plan of management details that such deliveries will be accommodated from a separate access point on the south western side of the building separated from customers and staff

The proposal is therefore unsupported.

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

Recommended Traffic Engineer Conditions:

DEVELOPMENT CONSENT OPERATIONAL CONDITIONS

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.

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

Car Parking Standards

The driveway/access ramp grades, access and car parking facilities must comply with the Australian/New Zealand Standard AS/NZS 2890.1:2004 - Parking facilities - Off-street car parking. The dimensions of car parking bays and aisle widths in the car park are to comply with Australian/New Zealand Standard for Off-Street Parking AS/NZS 2890.1-2004.

Details demonstrating compliance with this condition are to be submitted to the Certifying Authority prior to the issue of a 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 an RMS 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 traffic
- 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;

All internal driveways and vehicle access ramps must have ramp grades and transitions complying with AS 2890.1. To ensure the gradient requirements and height clearances are satisfied, a driveway profile must be prepared for all internal ramps showing ramp lengths, grades, surface RL’s and overhead clearances, taken from the crest of the ramp to the base. The driveway profile must be taken along the steepest grade of travel or sections having significant changes in grades, where scraping or height restrictions could potentially occur and is to demonstrate compliance with AS 2890 for the respective type of vehicle.

Plans prepared by a suitably qualified Engineer shall be submitted to the Certifying Authority prior to the issue of a Construction Certificate.

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

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 State Roads.

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

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

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 RMS 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.

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

Allocated Parking Spaces (retail/commercial)

Parking allocated to this development must be clearly signposted and linemarked as being for the exclusive use of this development. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any Occupation Certificate.

Reason: To ensure parking availability.

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 Certifying Authority 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 Certifying Authority prior to the issue of any Occupation Certificate.

Reason: To ensure compliance with Australian Standards.