

## Engineering Referral Response

<b>Application Number:</b>	DA2021/1182
<b>Date:</b>	24/08/2021
<b>To:</b>	Thomas Prosser
<b>Land to be developed (Address):</b>	Lot 6 DP 17229 , 36 Myola Road NEWPORT NSW 2106

### Reasons for referral

This application seeks consent for the following:

- New Dwellings or
- Applications that require OSD where additional impervious area exceeds 50m<sup>2</sup> or
- Alterations to existing or new driveways or
- Where proposals affect or are adjacent to Council drainage infrastructure incl. watercourses and drainage channels or
- Torrens, Stratum and Community Title Subdivisions or
- All new Commercial and Industrial and RFB Development with the exception of signage or
- Works/uses in flood affected areas

And as such, Council's development engineers are required to consider the likely impacts on drainage regimes.

### Officer comments

#### 24/08/2021:

Proposal is for demolition of the existing dwelling and construction of a new double storey building with double garage.

#### Access

Proposal is for new vehicular access retaining the existing Council crossover from Myola Road and construction of new garage parking.

Drawings by Rapid Plans indicates that new driveway and crossover is slightly moved from existing location.

Since proposal is to develop the site from scratch , applicant to apply for new vehicle crossing application.

#### Stormwater

Stormwater from new roofed areas will be fed into the rainwater tanks and piped to the street gutter.

Stormwater plans by Greenwood Consulting Engineers, Job No. 2021119, Drawing No SW01-SW04 dated 07/06/2021 are satisfactory.

#### Excavation

Site do not fall under Geotechnical Hazard Map and the excavation seems to be less than 1m. Hence No Geotechnical Report is required.

#### For Planner

It is noted that Council's Landscape Team has requested an Arborist Report for the existing trees at site.

A re-referral is requested in case the driveway alignment changes due to interference to SRZ (Structural Root Zone) of existing street tree.

The proposal is therefore supported.

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

#### **Recommended Engineering Conditions:**

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

#### **Stormwater Disposal from Low Level Property**

The applicant is to demonstrate how stormwater from the new development within this consent shall be disposed of to an existing approved system or in accordance with Northern Beaches Council's Water management for Development Policy in particular the Stormwater Drainage from Low Level Properties Technical Specification. Details demonstrating that the existing approved system can accommodate the additional flows or compliance with the Northern Beaches Council's Water management for Development Policy are to be submitted to the Certifying Authority for approval prior to the issue of the Construction Certificate.

Reason: To ensure appropriate provision for disposal and stormwater management arising from the development.

#### **Vehicle Driveway Gradients**

The Applicant is to ensure driveway gradients within the private property are not to exceed a gradient of 1 in 4 (25%) with a transition gradient of 1 in 10 (10%) for 1.5 metres prior to a level parking facility. Access levels across the road reserve are to comply with the allocated vehicle profile detailed in this consent.

Details demonstrating compliance are to be submitted to the Certifying Authority for approval prior to the issue of the Construction Certificate.

Reason: To ensure suitable vehicular access to private property.

#### **Structural Adequacy and Excavation Work**

Excavation work is to ensure the stability of the soil material of adjoining properties, the protection of adjoining buildings, services, structures and / or public infrastructure from damage using underpinning, shoring, retaining walls and support where required. All retaining walls are to be structurally adequate for the intended purpose, designed and certified by a Structural Engineer, except where site conditions permit the following:

- (a) maximum height of 900mm above or below ground level and at least 900mm from any property boundary, and
- (b) Comply with AS3700, AS3600 and AS1170 and timber walls with AS1720 and AS1170.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Construction Certificate.

Reason: To provide public and private safety.

#### **Vehicle Crossings Application**

The Applicant is to submit an application for driveway levels with Council in accordance with Section 138 of the Roads Act 1993. The fee associated with the assessment and approval of the application is to be in accordance with Council's Fee and Charges.

An approval is to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: To facilitate suitable vehicular access to private property.

## **CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK**

### **Road Reserve**

The applicant shall ensure the public footways and roadways adjacent to the site are maintained in a safe condition at all times during the course of the work.

Reason: Public safety.

### **Vehicle Crossings**

The Applicant is to construct one vehicle crossing 3 metres wide in accordance with Northern Beaches Council Drawing No A4-3330/ 1N and the driveway levels application approval. An Authorised Vehicle Crossing Contractor shall construct the vehicle crossing and associated works within the road reserve in plain concrete. All redundant laybacks and crossings are to be restored to footpath/grass. Prior to the pouring of concrete, the vehicle crossing is to be inspected by Council and a satisfactory "Vehicle Crossing Inspection" card issued.

Vehicle Crossing to be at least 1m away from the existing electric post in the Myola Road.

A copy of the vehicle crossing inspection form is to be submitted to the Principal Certifying Authority.

Reason: To facilitate suitable vehicular access to private property.

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

### **Stormwater Disposal**

The stormwater drainage works shall be certified as compliant with all relevant Australian Standards and Codes by a suitably qualified person. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any interim / final Occupation Certificate.

Reason: To ensure appropriate provision for the disposal of stormwater arising from the development.

### **Reinstatement of Kerb**

The Applicant shall reinstate all redundant laybacks and vehicular crossings to conventional kerb and gutter, footpath or grassed verge as appropriate with all costs borne by the applicant.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the final Occupation Certificate.

Reason: To facilitate the preservation of on street parking spaces.

### **Retaining wall**

The retaining wall works shall be certified as compliant with all relevant Australian Standards and Codes by a Structural Engineer. Details demonstrating compliance are to be submitted to the Principal

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

Reason: Public and Private Safety