

Engineering Referral Response

Application Number:	DA2021/1790
Date:	09/11/2021
To:	Brittany Harrison
Land to be developed (Address):	Lot 41 DP 13760 , 214 Hudson Parade CLAREVILLE NSW 2107 Lot LIC 187249 , 214 Hudson Parade CLAREVILLE NSW 2107

Reasons for referral

This application seeks consent for the following:

- New Dwellings or
- Applications that require OSD where additional impervious area exceeds 50m² 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

9/11/2021:

The application seeks consent for alterations and additions to a dwelling house including a swimming pool and garage.

Access

The site is currently accessed via a concrete driveway off Hudson Parade. At present there is single garage and double carport.

Proposal is to convert existing carport to double garage and convert existing single garage to new main entry (pedestrian) to the site.

Applicant to apply for new vehicle crossing application.

Stormwater

Proposal is to retain the existing arrangements for stormwater disposal. Roof water from the new roof areas will be connected to the existing stormwater system.

Applicant must install a rainwater tank of at least 1137 litres on the site (BASIX Report).

Development drain directly to the ocean, hence no On-site Stormwater Detention System (OSD) is required.

Excavation

Site is located within Geotechnical Hazard Zone H1.

A pool is proposed along the western boundary between the two wings of proposed dwelling. The plans and section for the proposed development also indicate that excavations below the upper wing will be 2.7 m and between 1.2 m and 3.3 m below the lower wing.

Geotech report prepared by Douglas Partners, Ref No-205400, Dated 9th July 2021, R.01.Rev1 is provided.

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

Geotechnical Report Recommendations have been Incorporated into Designs and Structural Plans

The recommendations of the risk assessment required to manage the hazards as identified in the Geotechnical Report prepared by Douglas Partners, Ref No-205400, Dated 9th July 2021, R.01.Rev1 are to be incorporated into the construction plans. Prior to issue of the Construction Certificate, Form 2 of the Geotechnical Risk Management Policy for Pittwater (Appendix 5 of P21 DCP) is to be completed and submitted to the Accredited Certifier. Details demonstrating compliance are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: To ensure geotechnical risk is mitigated appropriately.

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 Certifying Authority prior to the issue of the Construction Certificate.

Reason: To provide public and private safety.

Vehicle Crossing & Reinstatement of Redundant Crossing Application

The Applicant is to submit an application for;

1) 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 and

2) For reinstatement of redundant crossing in Hudson Parade 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 and preservation of on street parking spaces

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 5 metres wide at kerb (plus wings on both sides of the layback) in accordance with Northern Beaches Council Drawing No A4-3330/ 3N 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.

A copy of the vehicle crossing inspection form is to be submitted to the 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 Certifying Authority prior to the issue of any 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 Certifying Authority prior to the issue of the Final Occupation Certificate.

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

Geotechnical Certification Prior to Occupation Certificate

The Applicant is to submit the completed Form 3 of the Geotechnical Risk Management Policy (Appendix 5 of P21 DCP) to the Certifying Authority prior to issue of the Final Occupation Certificate.

Reason: To ensure geotechnical risk is mitigated appropriately.