

Engineering Referral Response

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| Application Number: | DA2021/0333 |
| Date: | 25/07/2021 |
| To: | Thomas Prosser |
| Land to be developed (Address): | Lot X DP 420819 , 78 Powderworks Road NORTH NARRABEEN NSW 2101 |

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

Updated comments 25/7/21

The applicant has submitted DRAINS model to determine the on site stormwater detention requirements , however this is not in accordance with Councils water management policy for region one. (Ref CI 9.3.1 Table 7).

As such the storage volume and discharge requirements for the OSD will be conditioned.

The proposed new dwelling is not supported for the following reasons:

- 1) The stormwater drainage plan detailing the provision of on site stormwater detention is to be supported by hydraulic calculations detailing the the permissible site discharge and storage volume in accordance with the Councils -Water management for development policy.
- 2) The development details inclusion of a vehicle turning platform , no details of this turntable have been provided to Council . It is suggested that the garage apron area feature a turning area to negate the need for a turntable.

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

Traffic Management and Control

The Applicant is to submit an application for Traffic Management Plan to Council for approval prior to issue of the Construction Certificate. The Traffic Management Plan shall be prepared to RMS standards by an appropriately certified person.

Reason: To ensure appropriate measures have been considered for site access, storage and the operation of the site during all phases of the construction process.

On-site Stormwater Detention Details

The Applicant is to provide stormwater drainage plans detailing the provision of on-site stormwater detention in accordance with Northern Beaches Council's **WATER MANAGEMENT POLICY for DEVELOPMENT Section 9.3.1 Table 7**. Detailed drainage plans are to be prepared by a suitably qualified Civil Engineer, who has membership to the Institution of Engineers Australia, National Professional Engineers Register (NER) or RPENG (Professionals Australia) and registered in the General Area of Practice for civil engineering.

The drainage plans must address the following:

- i. The provision of a minimum 9 cumecs of stormwater detention storage.
- ii. Detailed drainage plans, including engineering certification, are to be submitted to the Certifying Authority for approval prior to the issue of the Construction Certificate.

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

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Traffic Control During Road Works

Lighting, fencing, traffic control and advanced warning signs shall be provided for the protection of the works and for the safety and convenience of the public and others in accordance with RMS Traffic Control At Work Sites Manual (<http://www.rms.nsw.gov.au/business-industry/partners-suppliers/documents/technical-manuals/tcws-version-4/tcwsv4i2.pdf>) and to the satisfaction of the Roads Authority. Traffic movement in both directions on public roads, and vehicular access to private properties is to be maintained at all times during the works

Reason: Public Safety.

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 Councils Water Management for Development policy and all relevant Australian Standards and Codes by the design engineer. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Occupation Certificate.

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

Positive Covenant and Restriction as to User for On-site Stormwater Disposal Structures

The Applicant shall lodge the Legal Documents Authorisation Application with the original completed

request forms (NSW Land Registry standard forms 13PC and/or 13RPA) to Council and a copy of the Works-as-Executed plan (details overdrawn on a copy of the approved drainage plan), hydraulic engineers' certification.

The Applicant shall create on the Title a restriction on the use of land and a positive covenant in respect to the ongoing maintenance and restriction of the on-site stormwater disposal structures within this development consent. The terms of the positive covenant and restriction are to be prepared to Council's standard requirements at the applicant's expense and endorsed by Northern Beaches Council's delegate prior to lodgement with the NSW Land Registry Services. Northern Beaches Council shall be nominated as the party to release, vary or modify such covenant.

A copy of the certificate of title demonstrating the creation of the positive covenant and restriction for on-site storm water detention as to user is to be submitted.

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

Reason: To ensure the on-site stormwater disposal system is maintained to an appropriate operational standard.

Post-Construction Road Reserve Dilapidation Report

The applicant must bear the cost of all restoration works to Council's property damaged during the course of this development. All building work must have been carried out in accordance with the provisions of the Building Code of Australia

Note: Where by Council is not the Principal Certifying Authority, Refund of the trust fund deposit will also be dependent upon receipt of a final Occupation Certificate by the Principal Certifying Authority, Post Construction Dilapidation Report and infrastructure inspection by Council.

Reason: To ensure security against possible damage to Council property.