

Engineering Referral Response

Application Number:	DA2019/0749
To:	Megan Surtees
Land to be developed (Address):	Lot 28 DP 233779 , 4 Yachtsmans Paradise 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 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

The subject site is burdened by a Council drainage easement and pipeline. The proposed pool is located adjacent to the easement and as such the applicant is required to demonstrate compliance with Pittwater Council's Pittwater 21 DCP 2014 Clause B5.12 Stormwater Drainage Systems and Natural Watercourses, Structures Over and Adjacent to Easements, Piped Drainage System or Natural Watercourses. This consists of accurately locating, confirming dimensions and plotting Council's stormwater pipelines and associated infrastructure to scale on the DA plans which show the proposed works. This should be carried out by a service locating contractor and registered surveyor. (The applicant will need to provide evidence of methodology used for locating). The stormwater maps can be viewed by following the below instructions.

Northern Beaches Council has public stormwater drainage maps online. Please follow the relevant link below and select the 'Stormwater' map from the 'No Overlay Map' drop down menu. You can then search by address and use the zoom functionality to see pipe diameters and asset id numbers. <https://services.northernbeaches.nsw.gov.au/icongis/index.html>

THIS INFORMATION IS PROVIDED UNDER THE FOLLOWING CONDITIONS:

The information shown on the stormwater drainage map is indicative only and outlines the approximate locations of Council-owned stormwater infrastructure according to Council's records. Please note that there may be drainage assets in place that Council do not have records of, or infrastructure that has been upgraded, replaced or removed since this information was recorded. Confirmation of the location and condition of the infrastructure and/or easements should be obtained prior to any of the following being carried out:

- (a) construction work; or
- (b) design work; or

- (c) purchase of the property; or
- (d) other actions relevant to Council stormwater infrastructure.

Northern Beaches Council does not warrant that the data does not contain errors. Northern Beaches Council shall be in no way liable for any loss, damage or injury as a result of the use of this data. Northern Beaches Council has the copyright of this data and it should not be passed on to anyone, without the consent of Northern Beaches Council's Stormwater Assets Engineer or Stormwater Assets Technician.

The proposed excavation for the pool exceeds 1.5 metres in depth and as such a Geotechnical report addressing the requirements of the Geotechnical Risk Management Policy for Pittwater is required for the proposal.

Development Engineers cannot support the application due to insufficient information to address clauses B5.12 and B8.1 of Pittwater 21 DCP 2014.

Additional Information Submitted 4 and 5 September 2019

The submitted Geotechnical report addresses the relevant DCP controls and the survey locating Council's pipeline is also satisfactory. No objection to approval, subject to conditions as recommended.

Referral Body Recommendation

Recommended for approval, subject to conditions

Refusal comments

Recommended Engineering Conditions:

FEES / CHARGES / CONTRIBUTIONS

Construction, Excavation and Associated Works Bond (Drainage)

A Bond of \$10,000 as security against any damage to Council's stormwater infrastructure burdening the site.

Details confirming payment of the bond are to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: Protection of Council's Infrastructure.

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 White Geotechnical Group dated 29 August 2019 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

Principal Certifying Authority prior to the issue of the Construction Certificate.

Reason: To ensure geotechnical risk is mitigated appropriately.

Structures Located Adjacent to Council Pipeline or Easement

All structures are to be located clear of any Council pipeline or easement. Footings of any structure adjacent to an easement or pipeline are to be designed in accordance with Council's Pittwater 21 DCP 2014 Clause B5.12. A statement of compliance is to be prepared by a suitably qualified Structural Engineer and submitted to Council for approval. The approval from Council is to be submitted to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: Protection of Council's Infrastructure.

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.

Shoring of Adjoining Property

Should the proposal require shoring to support an adjoining property or Council land, owner's consent for the encroachment onto the affected property owner shall be provided with the engineering drawings.

Council approval is required if temporary ground anchors are to be used within Council land. A Temporary Ground Anchors (Road Reserve) Application is to be submitted with Council for assessment and approval subject to Council's Fees and Charges. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of the Construction Certificate

Reason: To ensure that owners consent is obtained for ancillary works, and to ensure the protection of adjoining properties and Council land.

Post-Construction Dilapidation Survey

A post-construction Dilapidation Survey of Council's Stormwater Assets is to be prepared by a suitably qualified person in accordance with Council's Guidelines for Preparing a Dilapidation Survey of Council Stormwater Asset in order to determine if the asset has been damaged by the works. Council's Guidelines are available at:

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/general-information/engineeringspecifications/2009084729guidelineforpreparingadilapidationsurveyofcouncilstormwaterassets2.pdf>

The post-construction dilapidation report must be submitted to Council for review and Council's acceptance of the report issued to the Principal Certifying Authority prior to the issue of

the Construction Certificate. Any damage to Council's stormwater asset is to be rectified in accordance with Council's technical specifications prior to the release of the security bond.

Reason: Protection of Council's Infrastructure.

Pre-Construction Stormwater Assets Dilapidation Report

A pre-construction / demolition Dilapidation Survey of Council's Stormwater Assets is to be prepared by a suitably qualified person in accordance with Council's Guidelines for Preparing a Dilapidation Survey of Council Stormwater Asset, to record the existing condition of the asset prior to the commencement of works. Council's Guidelines are available at:

<https://files.northernbeaches.nsw.gov.au/sites/default/files/documents/general-information/engineering-specifications/2009084729guidelineforpreparingadilapidationsurveyofcouncilstormwaterassets2.pdf>

The pre-construction / demolition dilapidation report must be submitted to Council for approval and the approval issued to the Certifying Authority prior to the issue of the Construction Certificate.

Reason: Protection of Council's Infrastructure.

CONDITIONS TO BE COMPLIED WITH DURING DEMOLITION AND BUILDING WORK

Road Reserve

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

Reason: Public Safety.

Protection of Adjoining Property - Excavation

Where excavations extend below the level of the base of the footings of a building or Council asset on the lot or an adjoining allotment of land, the person causing the excavation must preserve and protect the building and asset from damage and, if necessary, underpin and support the adjoining building or asset in an approved manner.

Reason: To ensure protection of private and Council's Infrastructure.

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

Geotechnical Certification Prior to Occupation Certificate

Prior to issue of the Occupation Certificate, Form 3 of the Geotechnical Risk Management Policy is to be completed and submitted to the Principal Certifying Authority.

Reason: To ensure geotechnical risk is mitigated appropriately.

Certification of Structures Located Adjacent to Council Pipeline or Council Easement

All structures are to be located clear of any Council pipeline or easement. Footings of any structure adjacent to an easement or pipeline are to be designed in accordance with Council's Pittwater 21 DCP 2014 Clause B5.12.

A statement of compliance is to be prepared by a suitably qualified Structural Engineer and submitted to Council and Council's acceptance of the certification is to be submitted to the Principal Certifying Authority prior to the issue of the Occupation Certificate.



Reason: Protection of Council's Infrastructure.