

Terraffic Pty Ltd

Traffic and Parking Consultants

ABN 83 078 415 871

2nd October 2024 Ref 23080

The General Manager Northern Beaches Council 59A Old Barrenjoey Road Avalon Beach NSW 2107

Dear Sir/Madam,

PROPOSED MODIFICATION TO OFF-STREET CARPARKING 29 CALVERT STREET, NEWPORT

Terraffic Pty Ltd has been engaged by Andy Lehman Design to assess the proposed off-street carparking and vehicular access arrangements for the abovementioned development site.

The existing dwelling on the site is served by a single car garage and carport that gains vehicular access to Calvert Parade via a 23m long single lane access ramp with an average grade of approximately 16% (1 in 6.5). The existing development does not provide a turn bay for vehicles to depart the site in a forward direction. A site survey is reproduced in Appendix A.



Photograph of the existing parking arrangements

The proposed development comprises the provision of 2 external parking spaces and modifications to the ramp to enable vehicles to enter and exit the site in a forward direction. The existing garage is to be converted to usable indoor living space while the carport is to be converted to a porch.

The existing ramp for the first 6.0m into the site will be retained and has a grade of 19.5% (1 in 5.1). The proposed section of the access driveway will be 3.0m wide and have a maximum gradient of 18.2% (1 in 5.5). Ramp transitions do not exceed 12.5% (1 in 8) over a distance of 2.0m. The maximum gradient within the parking spaces and manoeuvring area does not exceed 5% (1 in 20).

The 2 car parking area has an overall width of 5.9m and length of 5.4m. The manoeuvring area has a width of 6.9m to facilitate forward egress from the site. The manoeuvring area matches into the new 3.0m wide ramp.

A plan of the proposed access ramp and parking area is reproduced in Appendix B.

Section B6.2 of the Pittwater 21 DCP notes the following with regard to Internal Driveways:

For Internal Driveways on steeply sloping or difficult sites, gradients may be increased up to 1:4 (V:H) over a maximum 20 metre length.

Provision is to be made for vehicles to enter and leave the site in a forward direction, where:

- the internal driveway grade exceeds 1:4 (V:H);
- the land abuts a roadway subject to high pedestrian use (e.g. School, Commercial Centre);
- driveways are more than 30m in length; and
- the driveway enters onto a classified road.

Variations

For existing Internal Driveways on steeply sloping or difficult sites proposing dual occupancies, dwelling houses, secondary dwellings, exhibition homes, rural works dwellings and tourist and visitor accommodation, gradients up to a maximum of 1:3 (V:H) may be maintained subject to demonstration through a Traffic Assessment Report and the relevant certification that the Internal Driveway including surface finish is safe for its intended use.

Any alternate design of the Internal Driveway (based on turning paths for a B85 vehicle) is to be in accordance with the current edition of Australian Standard AS/NZS 2890.1 "Parking Facilities Part 1" Off-Street Car Parking.

A variation may be considered subject to demonstration through a Traffic Assessment Report and the relevant certification that an alternate vehicular access arrangement to the site is safe for all pedestrian and vehicular traffic.

The Internal Driveway shall be contained within the driveway corridor. The minimum width of the driveway corridor (i.e. impervious pavements together with grassed shoulder area) shall be as follows:

• Single Dwelling: 3.0 metres minimum.

As per the requirements of AS/NZS2890.1:2004 and the DCP, the proposed access ramp incorporates 2.0m long transitions with a maximum change in grade of 12.5% (1 in 8) and a maximum grade of the ramp is 18.2% over a distance of 8.0m. Furthermore, the 3.0m wide driveway satisfies the minimum requirements of the DCP.

The swept paths of the Australian Standard B85 Vehicle (Ford Falcon) entering and exiting the proposed parking spaces are reproduced in Appendix C. As can be seen, this vehicle can enter and exit the site with a maximum of 5 manoeuvres.

In the circumstances, the proposed access driveway and parking arrangements are considered acceptable and will improve safety as vehicles will be able to enter and exit in a forward direction.

Should you require any further information, please do not hesitate to contact Michael Logan on 0411 129 346 during business hours.

Yours faithfully

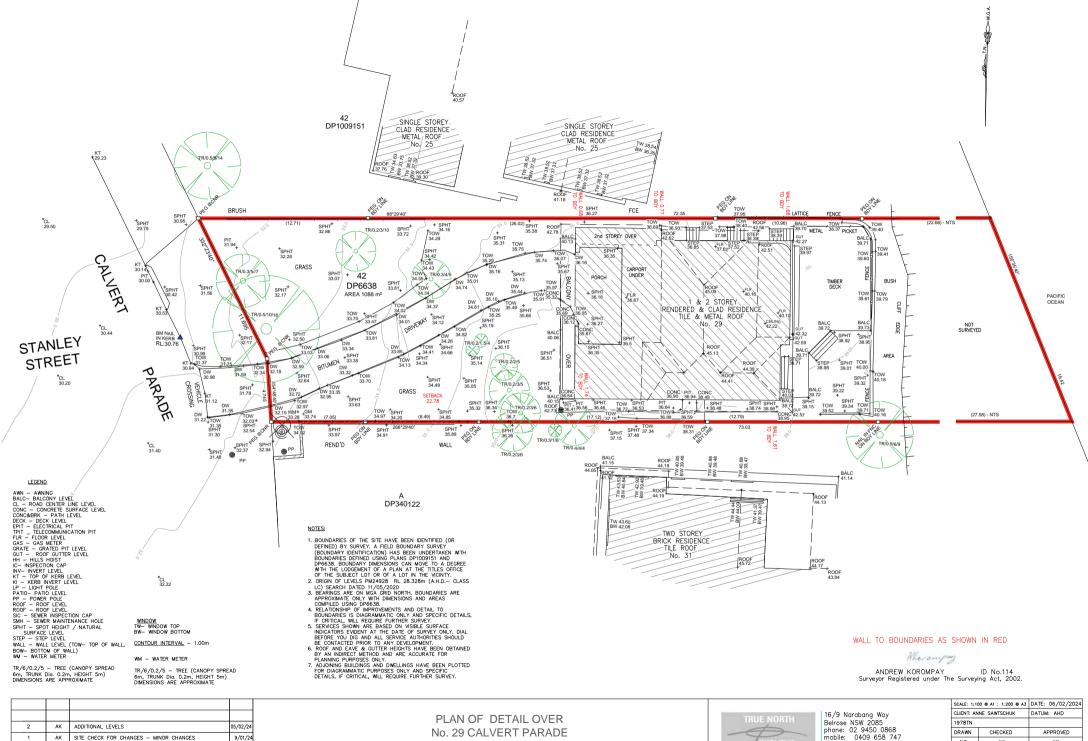
Michael Logan MTraff (Monash University)

Director

Terraffic Pty Ltd

APPENDIX A

SITE SURVEY



No. 29 CALVERT PARADE NEWPORT NSW 2106.

50/06/20

REVISION

BY

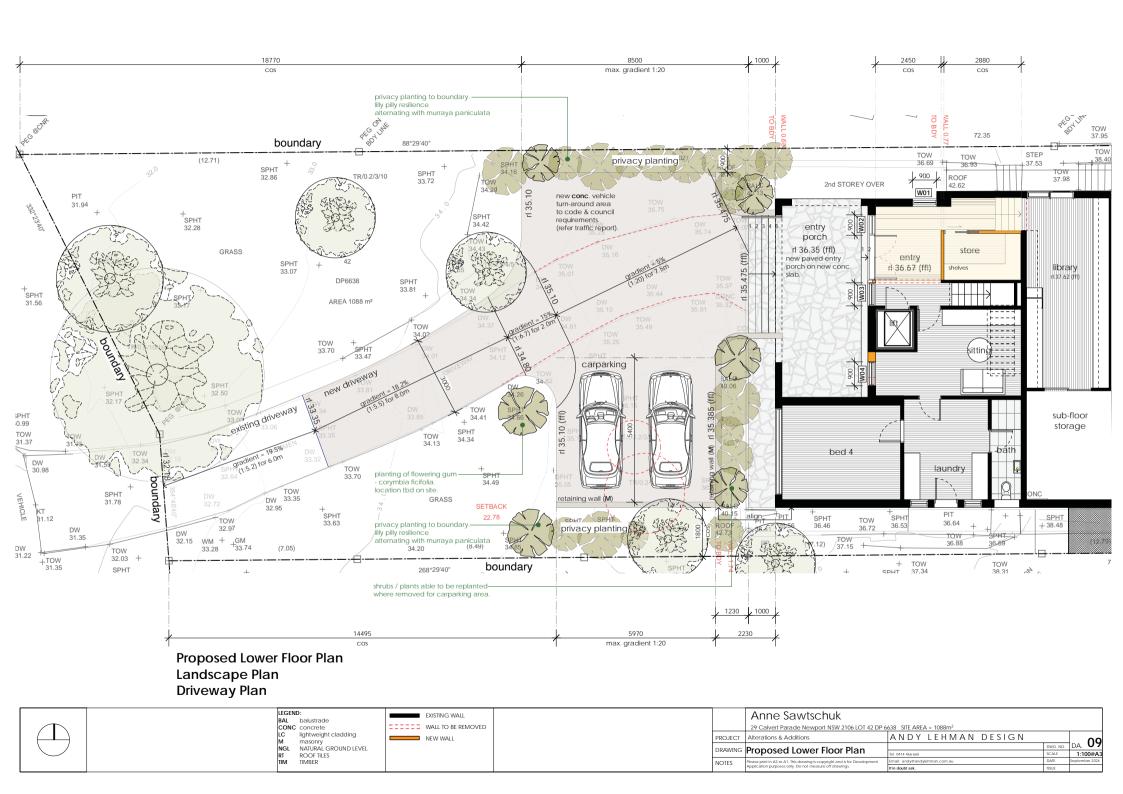
REVISION DESCRIPTION



mobile: 0409 658 747 email: enquiry@truenorthsurveys.com.au

001421 11100 0 111 1 11200 0 110		00,00,000.
CLIENT: ANNE SAWTSCHUK		DATUM: AHD
1978TN		
DRAWN	CHECKED	APPROVED
NC	AK	AK
DRAWING 1978TN	No.	REVISION 1

$oldsymbol{A}$	APPENDIX B
PLAN OF THE PROPOSED ACCESS DRIVEWAY AN	D GARAGE



APPENDIX C

SWEPT PATH ANALYSIS

