

APPENDIX D

TRAFFIC IMPACT ASSESSMENT



Traffic Impact Assessment

Friday Flat Car Park 2

Prepared for Event Hospitality & Entertainment

10 January 2019

181487 TAAE

Structural Civil Traffic Facade

Consulting Engineers

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1 Introduction

It is proposed to provide additional capacity at the Friday Flat car park at Thredbo Resort.

This report seeks to respond to the Secretary's Guidelines for the proposed development, which stated for traffic, access, and parking:

The SEE shall:

- Include and assessment of traffic, transport and car parking implications undertaken by an appropriately qualified traffic engineer;
- Demonstrate that the proposed works will not impede the existing traffic and pedestrian flow on Friday Drive;
- Detail the anticipated number of spaces and impacts upon circulation within the existing car parking areas and off Friday Drive;
- Provide detailed plans of the proposed parking layout and access / egress points demonstrating the development complies with relevant Roads and Maritime Services (RMS) guidelines and Australian Standards AS 2890; and
- Outline any discussions held with the RMS.

2 Existing Conditions

The Friday Flat car parking area is accessed from Friday Drive, which is a publicly accessible road within the Thredbo Resort site. The existing main parking area provides a capacity of approximately 770 spaces.

Angled parking is present along the northern side of Friday Drive opposite the main carpark with an approximate capacity of 88 car spaces.



Figure 2.1: Existing car park (via SIX Maps)

3 Proposed Works

It is proposed to increase the capacity of the parking area by introducing new at-grade parking. This carpark proposal is identified as CP2.

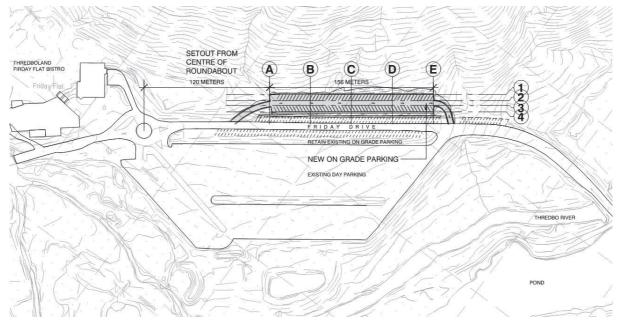


Figure 3.1: Proposed CP2 car park (dwg. A0.100, Rev. D, 04/01/19, DJRD Architects)

The set of architectural drawings on which this Traffic Impact Assessment is based is attached in **Appendix A** of this document.

3.1 Parking Layout and Design

CP2 is located north of the existing carpark. The car park is proposed to be accessed via a ramp off of Friday Drive. The car park provides 60-degree angled spaces in a one-way aisle from west to east. The design of parking spaces meets and exceeds that of a Class 3 parking area in accordance with Australian Standard AS2890.1 as follows:

- Parking space width: 2.7 metres
- Parking alignment depth (AS2890 dimension 'C'): 6.0 metres
- Parking aisle width: 4.8 metres

Total proposed capacity for CP2 is 95 spaces. 16 existing at-grade angled car spaces along Friday Drive will be removed for the CP2 entry and exit ramps, resulting in a net increase in capacity of 79 spaces.

This increase in parking is not accompanied by any particular increase in resort capacity and is intended to provide an improved guest experience and better cater to existing demands. It is anticipated that the existing requirements for overflow parking (e.g. near the tip or along Friday Drive) will be reduced, improving road safety and user experience.

Changes to the parking within the site due to this proposal are detailed in Table 1.

Location **Existing Proposed** Change (+/-) Existing 770 770 0 72 Friday Drive 88 -16 CP2 95 +95 **Total (subject site)** 858 937 + 79

Table 1: Parking capacity changes

Outside of the scope of this application, other concurrent works are also proposed for this site including the proposal of one additional at-grade carpark (CP3) and upgrades to the existing carpark (CP1).

3.2 Accessible Parking

Accessible car parking spaces are provided in the existing main car park, close to the Friday Flat area. Additional accessible spaces are not required in the CP2 car park.

3.3 Pedestrian Access

Pedestrian movements from the new car park will connect to the Friday Flat terminal via a new gravel path which links into the existing pedestrian routes along Friday Drive (Figure 3.2).

The driveway from Friday Drive to the CP2 car park is currently proposed at a maximum grade of approximately 10% (1:10). This is suitable as a non-accessible walkway but will not be considered an accessible route, which is acceptable as all accessible parking spaces are located within the existing main car park.

Under a separate application, additional pedestrian infrastructure will also be provided on Friday Drive as part of the CP1 works (subject to approval). Independent of those works, the proposed CP2 car park is expected to provide sufficient pedestrian amenity and safety.



Figure 3.2: Proposed pedestrian connections (dwg. A0.150, Rev. C, 04/01/19, DJRD Architects)

3.4 Traffic Assessment

No additional traffic generation is forecast for the proposed car park development.

As noted above, the provision of additional parking is intended to provide for existing demands and improve user experience. The development does not increase the capacity of the resort or create any additional trip attractors in the area.

During peak periods the site currently accepts up to 400 vehicles per hour with high densities of movements during the morning arrival period (8am – 10am). The provision of an additional driveway and parking capacity will assist in distributing vehicles to parking more quickly and improving traffic flow on Friday Drive.

Furthermore, existing parking capacity constraints require vehicles to be turned around from the site during peak periods, resulting in an increase in vehicle movements along Alpine Way (due to return movements). Additional parking will allow these vehicles to access the site and reduce excess movements on surrounding roadways. The proposed development should therefore to a small extent improve traffic conditions in the area.

In relation to exit periods, the provision of additional parking is considered acceptable. Departure movements for the ski resort occur over a much longer period (approx. 11am to 6pm) than arrivals, with limited impacts from the additional capacity. As discussed, these parking spaces will effectively be existing capacity relocated from overflow parking areas and will not change traffic conditions along the broader road network.

3.5 Parking and Traffic Management

It is recommended that the new car park areas continue to operate under marshalled traffic control as per the existing parking zones. This will ensure the vehicle and pedestrian safety is maintained.

The additional exit driveway from CP2 will be in close proximity to the existing entry driveway to the existing parking area. Both driveways are one-way such that there shall be no conflicting movements. Traffic marshalling and signage should ensure that entering vehicles are directed to the appropriate driveway thereby reducing unnecessary / repeat manoeuvres, and ensuring that vehicles do not need to cross Friday Drive from CP2 to existing parking.

The exit driveway out of CP2 connects to Friday Drive at a near 90° angle; this provides vehicles exiting the CP2 carpark with clear line of sight to through traffic along Friday Drive and provides natural traffic calming for safer vehicle movements. Vehicles exiting the carpark are to give-way to the through traffic along Friday Drive.

3.6 Construction Management

For the construction of the carpark, it is anticipated that the existing car parking along the northern side of Friday Drive would be required for access, construction compounds etc. This will result in a reduction in parking of up to approximately 65 spaces during construction of CP2.

As there shall be a loss of parking during construction (extent to be determined), construction is expected to occur during the off-peak period between approximately October and May.

Subject to approval of separate applications, construction of additional car parking capacity may assist in further offsetting reduced capacity during construction.

4 Conclusion

The provision of a net additional 79 parking spaces to the capacity of the Friday Drive car park is considered to be acceptable and provide improved user experience for existing demands.

Traffic management and local traffic conditions including rejection of vehicles during peak periods (when the site reaches parking capacity) are expected to be improved, without increasing overall volumes as there is no additional attraction of trips to the site.

The proposed works are considered acceptable and supportable with regards to traffic and parking.

Prepared by

TAYLOR THOMSON WHITTING (NSW) PTY LTD

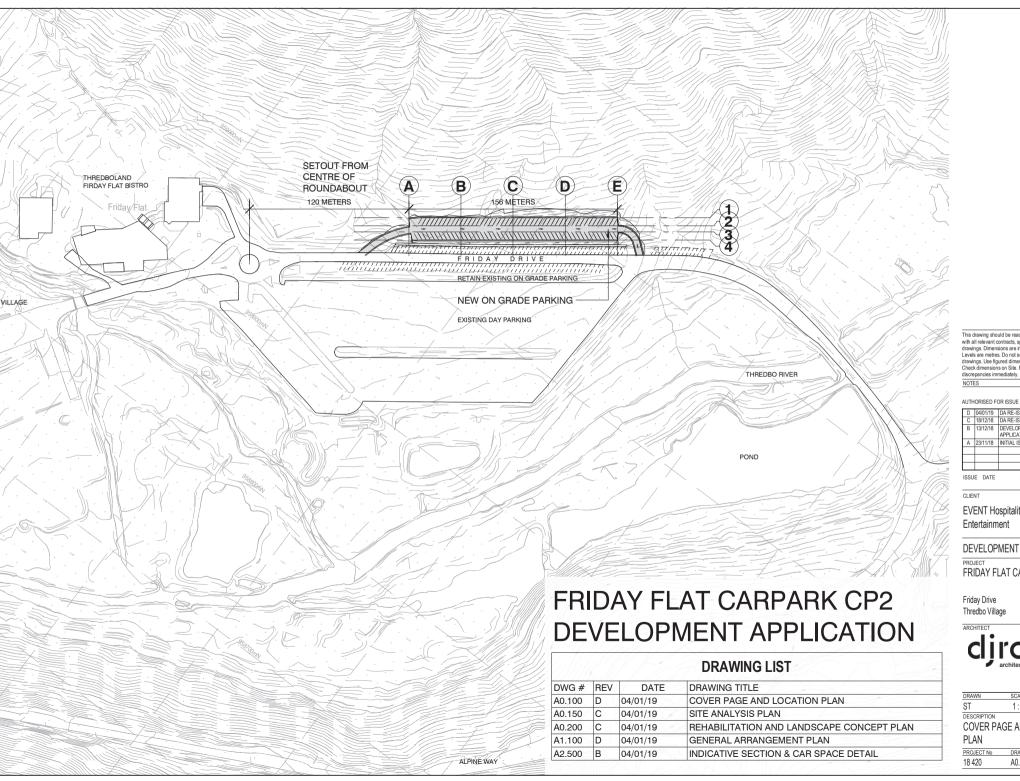
KEVIN ALAWADHI Traffic Engineer TAYLOR THOMSON WHITTING (NSW) PTY LTD

MICHAEL BABBAGE

Traffic Engineer

Appendix A

Friday Flat CP2 Architectural Drawing Set



This drawing should be read in conjunction with all relevant contracts, specifications and drawings Dimensions are in millimetres. drawings. Use figured dimensions only. Check dimensions on Site. Report discrepancies immediately.

D	04/01/19	DA RE-ISSUE	ST
С	18/12/18	DA RE-ISSUE	SM
В	13/12/18	DEVELOPMENT APPLICATION ISSUE	ST
Α	23/11/18	INITIAL ISSUE	ST

EVENT Hospitality and

DEVELOPMENT APPLICATION

FRIDAY FLAT CARPARK CP2

1:2000 COVER PAGE AND LOCATION

DRAWING No REVISION A0.100



VEHICULAR FLOW

PEDESTRIAN FLOW/WINTER TO LIFT / SUMMER BIKETRAILS

· SITE PROTECTION MEASURES AS PER 'SEMP'

· REFER ARCHITECTURAL TENGINEERING DETAIL

This drawing should be read in conjunction with all relevant contracts, specifications and drawings. Dimensions are in millimetres.
Levels are metres. Do not scale off drawings. Use figured dimensions only. Check dimensions on Site. Report discrepancies immediately.

NOTES

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AUTHORISED FOR ISSUE					
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CLIENT

EVENT Hospitality and Entertainment

DEVELOPMENT APPLICATION

PROJECT

FRIDAY FLAT CARPARK CP2

Friday Drive Thredbo Village

ARCHITECT CLIPS

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Daniel Beekv

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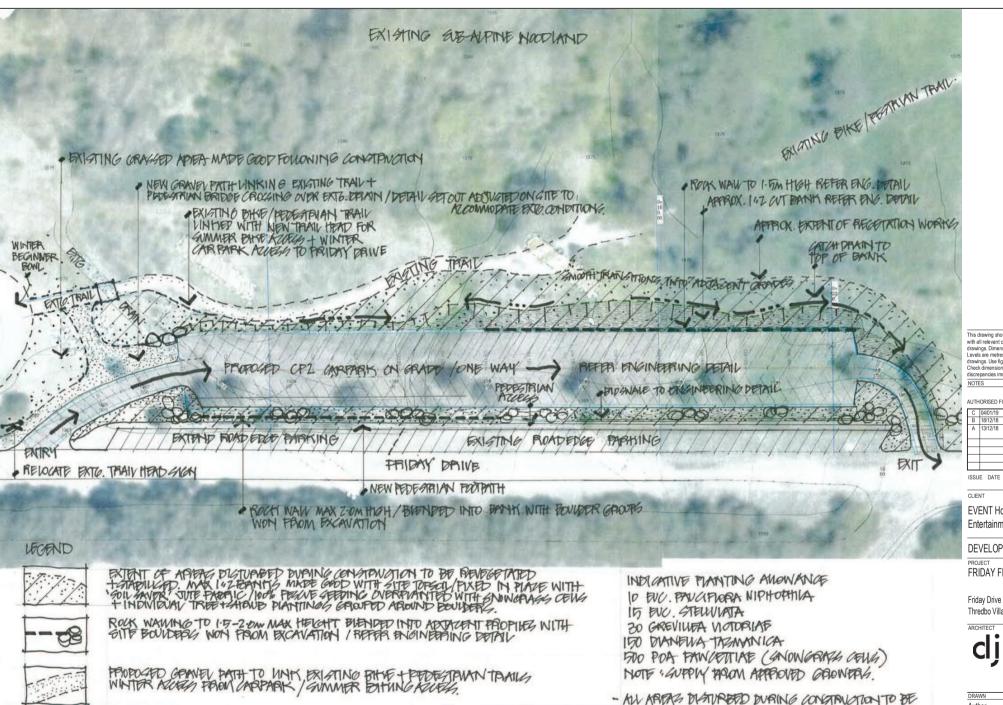
SCALE AT A3

ST DESCRIPTION

SITE ANALYSIS PLAN

 PROJECT No
 DRAWING No
 REVISION

 18 420
 A0.150
 C



CATCUT DRAING TO TOP OF BANPYS

This drawing should be read in conjunction with all relevant contracts, specifications and drawings Dimensions are in millimetres drawings. Use figured dimensions only Check dimensions on Site. Report discrepancies immediately.

1	С		UPDATED PLAN	ST
3.	В	18/12/18	DA RE-ISSUE	SM
-	Α	13/12/18	DEVELOPMENT APPLICATION ISSUE	ST
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SUBJECT

EVENT Hospitality and Entertainment

DEVELOPMENT APPLICATION

FRIDAY FLAT CARPARK CP2

Friday Drive Thredbo Village

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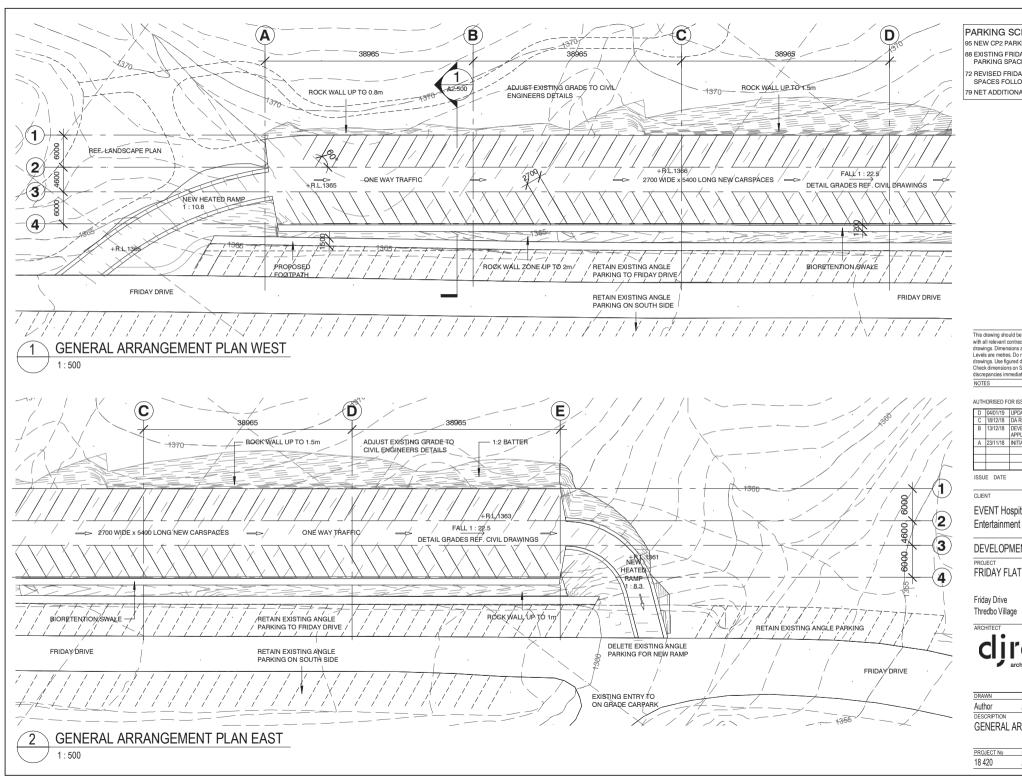
- SITE PROTECTION MEASURES AS FER GEMP

- PREPER KRUH + ENGINEBBING DETAIL



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Author	1:600	
DESCRIPTION		
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LANDSCAPE CONCEPT PLAN DRAWING No REVISION



PARKING SCHEDULE

95 NEW CP2 PARKING SPACES

88 EXISTING FRIDAY DRIVE PARKING SPACES

72 REVISED FRIDAY DRIVE PARKING SPACES FOLLOWING CP2 (INC. RAMPS) 79 NET ADDITIONAL PARKING SPACES

This drawing should be read in conjunction with all relevant contracts, specifications and drawings Dimensions are in millimetres Levels are metres. Do not scale off drawings. Use figured dimensions only. Check dimensions on Site. Report discrepancies immediately.

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D	04/01/19	UPDATED PLAN	ST
С	18/12/18	DA RE-ISSUE	SM
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SUBJECT

EVENT Hospitality and

DEVELOPMENT APPLICATION

FRIDAY FLAT CARPARK CP2

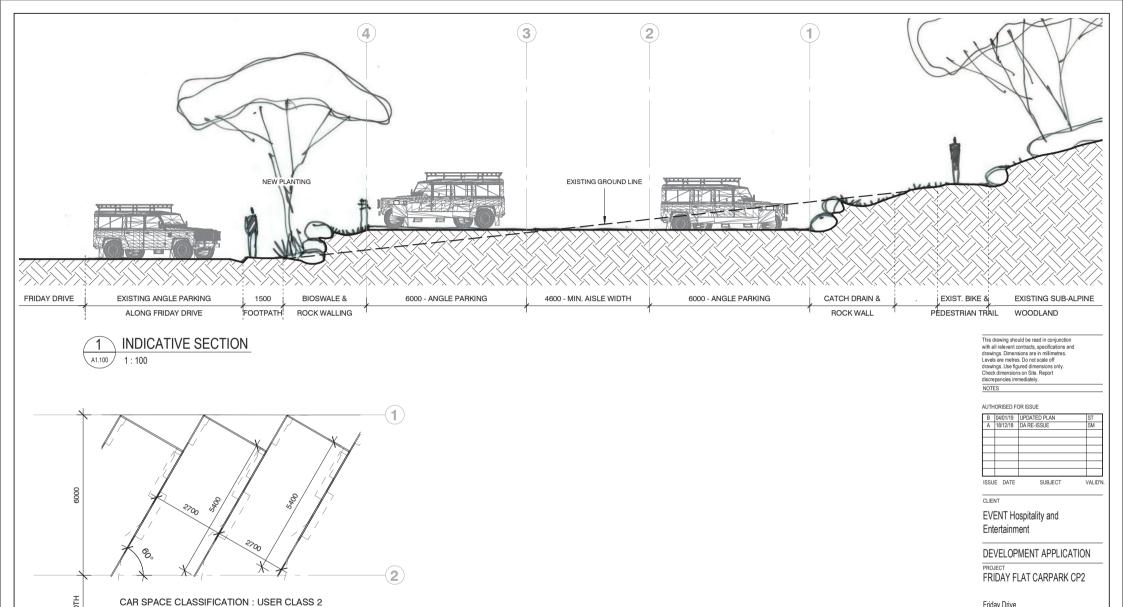
64 Rose Street

Chippendale NSW 2008 Sydney Australia djrd.com.au

SCALE AT A3 As indicated

GENERAL ARRANGEMENT PLAN

PROJECT No DRAWING No REVISION A1.100



(AS 2890.1:2004) --> MIN. SPACE WIDTH: 2500mm

CAR SPACES @ 60 deg

CAR SPACE DETAIL

1:100

3

Friday Drive Thredbo Village



DRAWN	SCALE AT A3
Author	1:100
DESCRIPTION	
INDICATIV	E SECTION & CAR

SPACE DE	TAIL	
PROJECT No	DRAWING No	REVISION
18 420	A2.500	В