

Our Ref: 23399

7 December 2023

Nemco Design Pty Ltd Level 2, Suite 5, 402-410 Chapel Toad Bankstown NSW 2200

Attention: Abraham Nemra

Dear Abraham,

RE: 150 & 158 ELDRIDGE ROAD, CONDELL PARK TRAFFIC RESPONSE TO RFI

As requested, please find herein The Transport Planning Partnership (TTPP)'s traffic and parking assessment for the above proposed development.

Background

A Development Application (DA-1292/2022) has been submitted to City of Canterbury Bankstown Council (Council) for renovation of an existing warehouse at 150-160 Eldridge Road and use of 158 Elridge Road as a car storage facility.

Specifically, the proposal seeks approval to renovate the existing warehouse and introduce new parking spaces and a portable hoist at 150 Eldridge Road. The 158 Eldridge Road site is proposed to be used as a car storage facility, with access to be provided from the 150 Eldridge Road site via a bridge ramp.

On 2nd March 2023, Council issued a letter requesting further information and assessment to be undertaken. TTPP has responded to the traffic and parking related comments as below.



Council's Comments

Development Engineer

The proposed bridge over stormwater culvert shall be designed in accordance with AS2890.1 having regard to the provision of required roadway width to service the development. The applicant shall provide the following documents prepared by qualified traffic consultant in supporting the proposal:

- Largest vehicle type to be used in the change of use parking facility within No 158 Eldridge Rd and new parking spaces on 150-160 Eldridge Rd.
- 2) A swept path analysis demonstrating the subject vehicle's manoeuvrability in and out of each new car parking space whilst others are all occupied on No 150-160 Eldridge Rd and to enter and exit the both sites 158 & 150-160 Eldridge Rd in a forward direction complying to AS890.1 shall be provided.

The proposal of building a new bridge ramp to access No 158 Eldridge Rd over Council's easement for drainage 5.0 m wide which contains stormwater culvert of (1200x2740x2740) shall be referred to City Asset team by Development Engineering team for further assessment.

TTPP's Responses

(1) Largest Vehicle Type to be Used

The redevelopment of the subject site will introduce 17 new car parking spaces within the 150-160 Eldridge Road site, to be located along the eastern and northern site boundaries. These car spaces will be used for staff parking (14 car spaces) and visitor parking (3 car spaces), with the tandem car spaces to be allocated for staff parking only. The new car parking spaces are shown in Figure 1. The largest vehicle type to be accommodated on the new parking spaces would be typical passenger vehicles. No heavy vehicles will park at the new car parking spaces.

The largest vehicle expected to be stored at the car storage facility will be a B99 vehicle. It is expected that a 4-tonne forklift (2.5m long and 1.3m wide) will be used to transport vehicles in the car storage facility.



x new visitor parking spaces WORKING ROOM KX IK CAR STORAGE 10 x new staff parking spaces CAR STORAGE Α CAR STORAGE CAR STORAGE Α ~ 4 x new staff parking spaces EL

Figure 1: Proposed Site Layout – 150 Eldridge Road

(2) Car Park Layout and Swept Path Analysis

All staff parking spaces have been designed in accordance with Class 1A of 2890.1:2004. Ten (10) 90-degree staff car spaces are provided with a minimum width of 2.5m and length of 5.4m, with an aisle width greater than 5.8m. Four (4) 45-degree staff car spaces are provided with a minimum width of 2.5m and length of 5.4m, with an aisle width of 4.8m. The proposed 45-degree parking spaces allow vehicle to enter in a forward direction and the aisle servicing those spaces is designed to be one-way aisle.

All 90-degree visitor parking spaces have been designed in accordance with Class 2 of AS2890.1:2004. These car spaces will be provided with a minimum width of 2.5m and length of 5.4m, with an aisle width greater than 5.8m.



The proposed car park layout and design of the new car parking spaces allow vehicles to enter and exit the site in a forward direction.

According to AS2890.1:2004, the minimum aisle width and parking space width are determined based on the manoeuvre of B85 vehicle. Therefore, swept path analysis has been undertaken demonstrating a typical B85 passenger vehicle entering and exiting the new car parking spaces whilst adjacent spaces are all occupied. The swept paths are provided in Attachment Two.

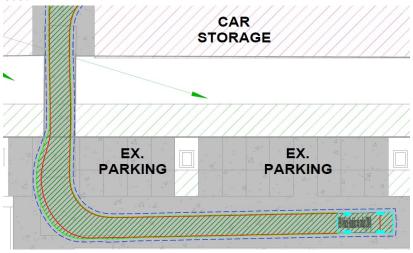
New Bridge Ramp Access

The largest vehicle expected to be stored at the car storage facility at 158 Eldridge Road is a B99 vehicle. It is noted that no visitor or staff vehicles will be allowed to pass the bridge ramp as all visitor and staff parking will be restricted to the 150 Eldridge Road site.

The proposed bridge ramp has a roadway width of approximately 3m wide, which complies with AS2890.1 for a one-way roadway. However, AS2890.1 requires a further 300mm clearance to be provided to the boundary where an obstruction such as a wall or kerb is higher than 150mm. The 300mm clearance is not shown on the architectural plans.

However, it should be noted that the bridge ramp is only to provide access between 150 Eldridge Road and 158 Eldridge Road to allow cars to be transported to the car storage facility at 158 Eldridge Road. Staff and visitor vehicles will not be allowed to travel through the bridge. Nonetheless, it is expected that the transportation of vehicles across the bridge will be minimal, with approximately two vehicles a day.

Notwithstanding this, a swept path analysis has been undertaken showing that a B99 vehicle is able to travel through the bridge ramp with 300mm clearance on either side of the vehicle body to be accommodated within the boundaries of the bridge, as shown below. Therefore, the proposed bridge roadway width is considered acceptable and would satisfy its proposed use.





It is expected that a 4-tonne forklift will be used to transport vehicles within the car storage facility. Swept path analysis has been undertaken demonstrating a forklift traveling through the bridge ramp.

The swept paths are provided in Attachment Two. Both the forklifts and B99 vehicles can enter and exit the 158 Eldridge Road site in a forward direction.

Summary and Conclusion

The proposed redevelopment of the subject site includes the renovation of the existing warehouse and internal works including 17 new car spaces at 150 Eldridge Road site, as well as repurposing the 158 Eldridge Road site into a car storage facility.

The proposed new car parking spaces at 150 Eldridge Road site have been designed in accordance with AS2890.1:2004 with swept path analysis provided for each space, showing vehicles would be able to enter and exit each car space.

The largest vehicle type that will be stored at the car storage facility is a B99 vehicle. The two sites will be connected via a new 3m-wide bridge ramp, which can accommodate transportation of vehicles up to B99 vehicles in and out of the car storage facility.

We trust the above is to your satisfaction. Should you have any queries regarding the above or require further information, please do not hesitate to contact the undersigned on 8437 7800.

Yours sincerely,

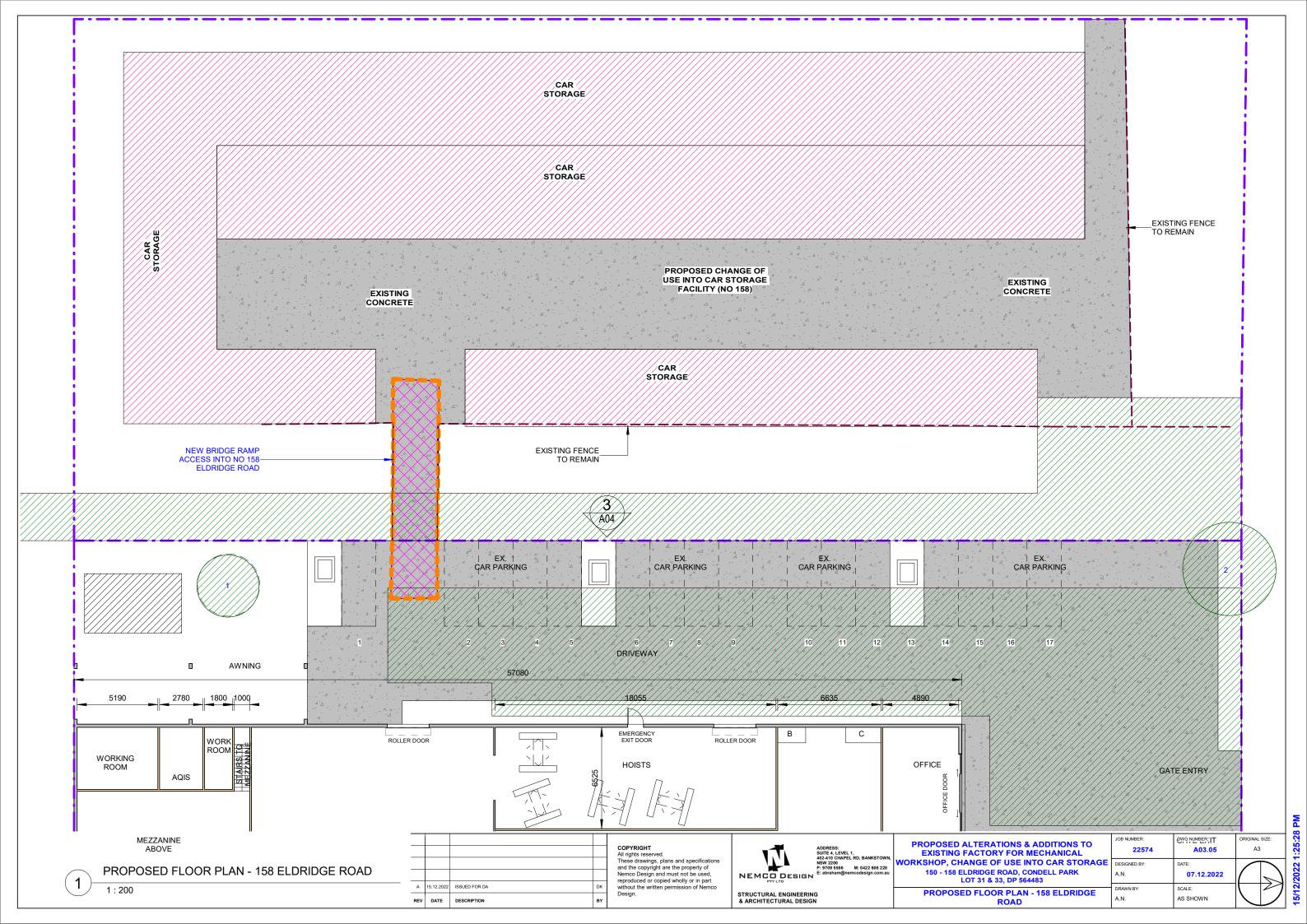
Ken Hollyoak Director

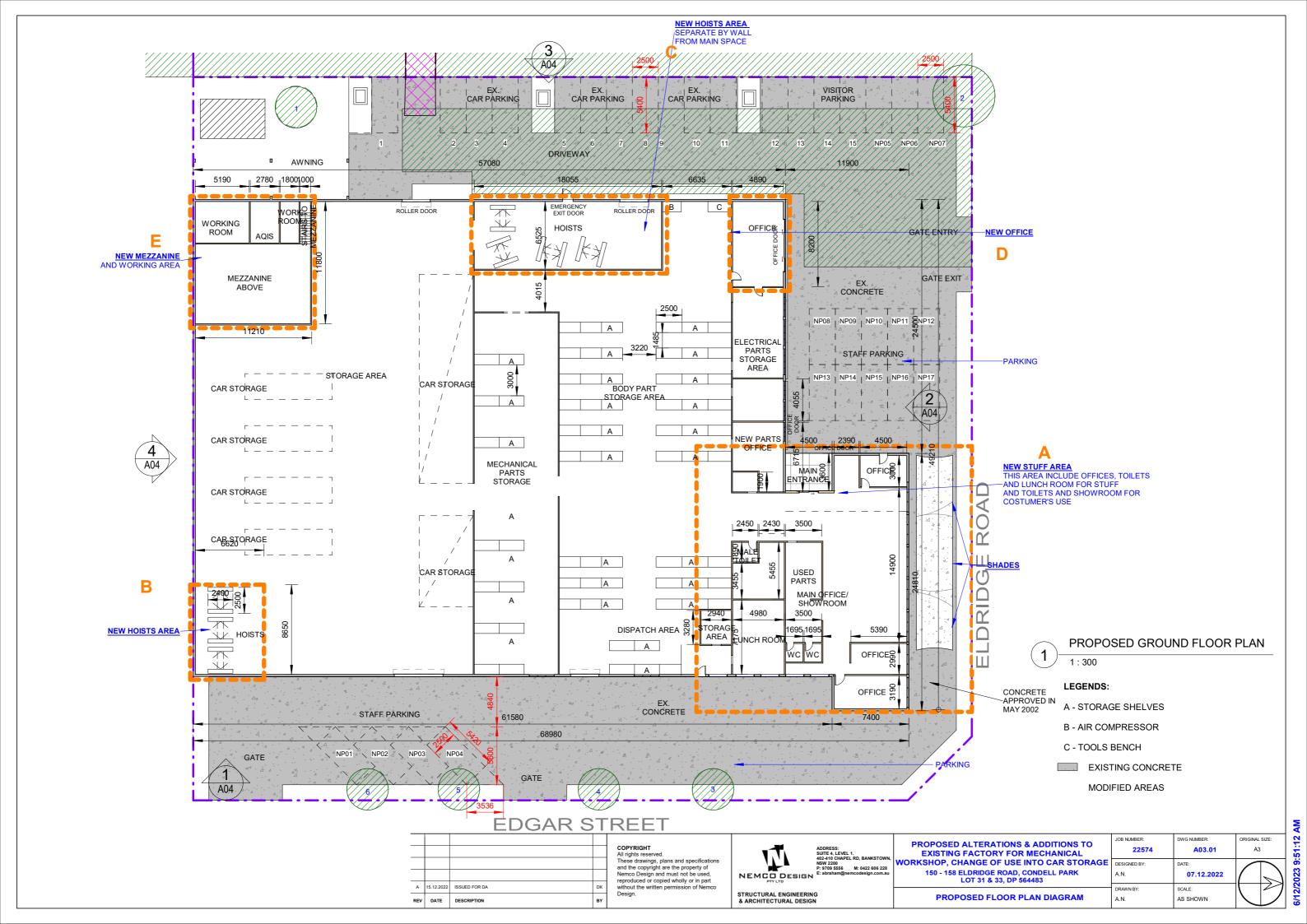
Encl. Attachment One – Architectural Plans Attachment Two – Swept Path Analysis



Attachment One

Architectural Plans







Attachment Two

Swept Path Analysis

