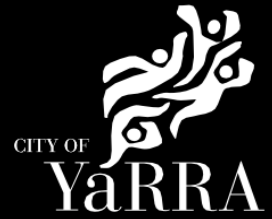


# Development Engineering Formal Referral Response



## Application Information:

<b>Referral Officer:</b>	Artemis Bacani
<b>Officer:</b>	Nish Goonetilleke
<b>Council Reference:</b>	PLN23/0819
<b>Address:</b>	Road Seg (Partial), Alexandra Parade, Fitzroy North
<b>Proposal:</b>	Buildings and works associated with the construction of car parking spaces, roadworks, including fencing on land within the Special Building Overlay.
<b>Comments Sought:</b>	<ul style="list-style-type: none"><li>• The proposed car parking spaces/configurations within the median strip;</li><li>• All vehicle access arrangements; and</li><li>• Clarify if swept path diagrams are required.</li></ul>
<b>Disclaimer:</b>	Council's Development Engineering unit, provides the following advice based on information provided in the referral request memo referenced above.

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Council's Engineering Referral team provides the following information which is based on the information provided by Statutory Planning referenced above.

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## Comments and Recommendations

### Drawings and Documents Reviewed

	Drawing No. or Document	Rev	Dated
Creo Consultants	CRE-CV-DR-0120 <i>Proposed Civil Functional Layout Plan</i>	C	13 December 2023
Vicroads	SD 3143 <i>Standard Drawing Fence Welded Mesh</i>	A	1 July 2005
Niche Studio	<i>Proposed Roadworks</i>	1.3	9 January 2024

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## SECTION 1: Engineering requirements – Issue to the applicant

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The applicant must satisfy the engineering items outlined in **Table 2** below. A written response must be provided for each requirement, and the action is to be completed prior to resubmission.

Any amendments to plans/drawings or updates to reports/documents must be highlighted using a **red cloud** around the relevant section. In the written response, indicate the relevant sheet/pages of each document which have been amended.

**Table 1 - Engineering requirements for applicant**

Item	Engineering requirement	Action for applicant
1	Submit swept path diagrams to demonstrate vehicle turning movements into and out of the car parks.	Submit swept path diagrams
2	Dimension the width of the car spaces.	Update the relevant drawings accordingly
3	Dimension the width of the aisles.	Update the relevant drawings accordingly
4	Submit swept path diagrams to demonstrate entry and exit movements into and out of the car spaces.	Submit swept path diagrams
5	Submit swept path diagrams to demonstrate turning movements into and out of the median strip from the slip lanes.	Submit swept path diagrams
6	Confirm the use of the car spaces at the end of the car parking areas and whether the spaces will be used as a turnaround area for vehicles.	Update the relevant drawings accordingly
	Submit swept path diagrams to demonstrate adequate turning movements at the end of the car parking areas.	Submit swept path diagrams

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## SECTION 2: Engineering conditions – Planning Permit

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The conditions outlined in **Table 3** below must be included in the Planning Permit to ensure the specific engineering requirements are complied with.

Note: further conditions may be required if any of the items in Table 2 are not fulfilled prior to the issuing of the Planning Permit.

**Table 2 - Engineering conditions to be included in the Planning Permit**

Condition related to...	Engineering condition
Reinstatement of damages caused during development works	Within 2 months of the completion or by such later date as approved in writing by the Responsible Authority, any damage to Council infrastructure resulting from the development must be reinstated: <ul style="list-style-type: none"><li>(a) In accordance with Yarra Standard Drawings   Yarra City Council</li><li>(b) at the permit holder's cost; and</li><li>(c) To the satisfaction of the Responsible Authority.</li></ul>

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## SECTION 3: Engineering detailed assessment

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### DEVELOPMENT LAYOUT DESIGN

#### Layout Design Assessment

Item	Assessment
<b>Access Arrangements</b>	
Width of Vehicle Accessways	The vehicle accessway for the east and west car parks are located off Gore Street.  The accessways have a width of 5 metres.
Vehicle Turning Movements – Car Park Entry and Exit	Swept path diagrams have not been provided to demonstrate vehicle turning movements into and out of the car parks.
<b>Car Parking Modules</b>	
Car Spaces	The depth of the car spaces is 4.9 metres.  The width of the car spaces is not dimensioned on the drawings.
Aisle	The aisle width is not dimensioned on the drawings.
Vehicle Turning Movements – Car Spaces	Swept path diagrams have not been provided to demonstrate turning movements into and out of the car spaces.

Item

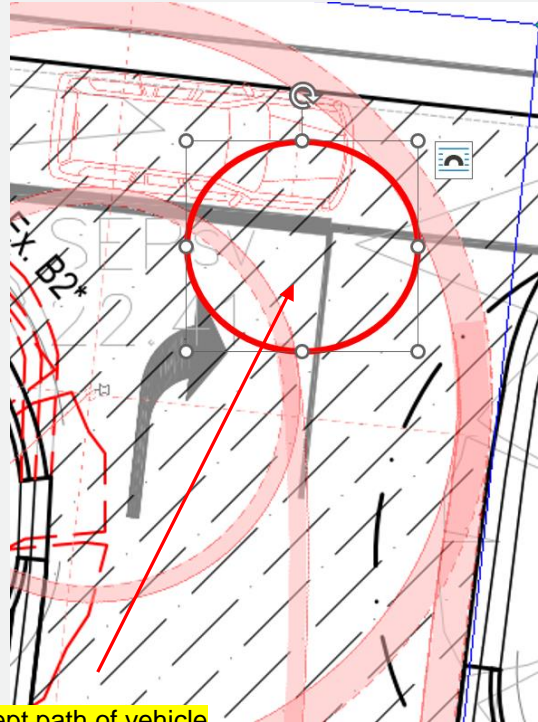
Assessment

Other Items

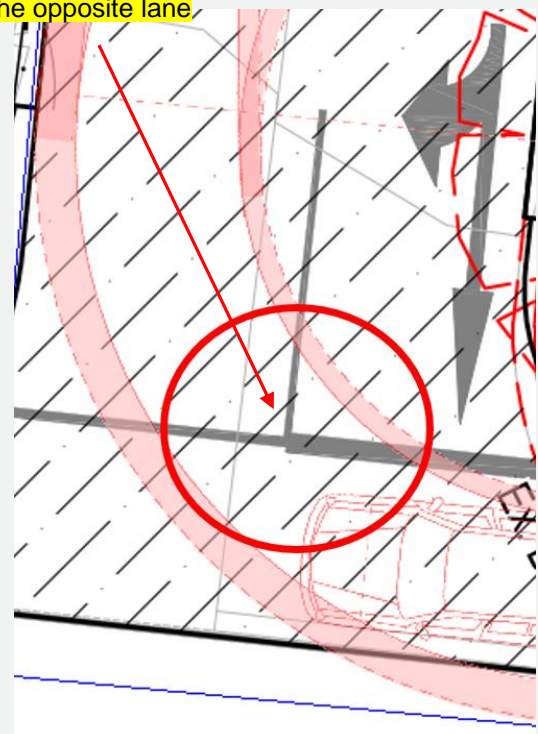
Vehicle Turning Movements –  
Alexandra Parade Slip Lane

Swept path diagrams have not been provided to demonstrate turning movements into and out of the Gore Street via the Alexandra Parade slip lanes.

The diagrams below show the swept path for a B99 design vehicle traversing into the opposite traffic lane.



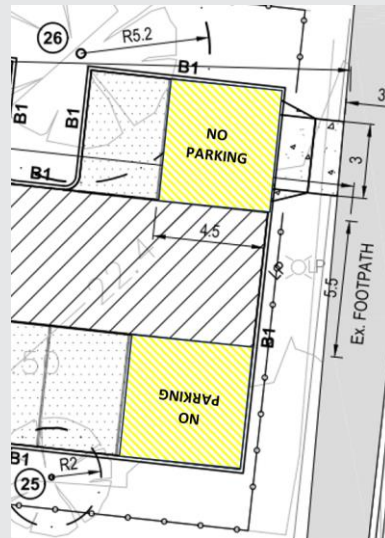
swept path of vehicle  
traversing into the corner  
of the opposite lane



Item	Assessment
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Turnaround Area

Will all or some of the spaces at the end of the car parking area be designated with No Stopping restrictions to allow vehicles to turnaround and exit the car park in a forward direction as shown in the diagrams below?



## Engineering Advice for Design Items to be Addressed by the Applicant


Item	Details
Vehicle Turning Movements – Car Park Entry and Exit	The applicant is to submit swept path diagrams to demonstrate vehicle turning movements into and out of the car parks.
Width of Car Spaces	The applicant is to dimension on the drawings the width of the car spaces.
Width of Aisle	The applicant is to dimension on the drawings the width of the aisles.
Vehicle Turning Movements – Car Spaces	The applicant is to submit swept path diagrams to demonstrate entry and exit movements into and out of the car spaces.
Vehicle Turning Movements – Alexandra Parade Slip Lane	The applicant is to submit swept path diagrams to demonstrate turning movements into and out of the car parks from the slip lanes.
Turnaround Area – Parking Spaces at the End of Car Park	<p>The applicant is to confirm the use of the car spaces at the end of the car parking areas and whether the spaces will be used as a turnaround area for vehicles.</p> <p>Swept path diagrams are to be provided to demonstrate adequate turning movements at the end of the car parking areas to allow vehicles to exit the car park in a forward direction.</p>

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## SECTION 4: Acknowledgement

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Engineer: Artemis Bacani

Signature: 

Date: 19 January 2024

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