

Our Ref: FR104016-46 letter 003

Contact: Mark Klein

5 July 2011

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**RE: MAJOR PROJECT APPLICATION: MP 06\_0205  
MODIFICATION NO 3  
RESPONSE TO SHOALHAVEN CITY COUNCIL SUBMISSION**

Further to Shoalhaven City Councils submission to DoP dated 9 June 2011, Ref 3A08/1006, we respond as follows;

Appendix 1 – Traffic Unit Response

- *Moona Creek Road (between Naval College Road and the car park access) > two lanes northbound in Moona Creek Road including a single through lane and a single separate right turn bay (right turn lane) for protection of traffic turning into the car park. The applicant advises this has been incorporated, however Council has not seen revised plans. It is not reflected on the Modification 3 plans.*

Cardno Response: Due to the scale of the architectural and civil drawings it may not be clear as to exactly how many lanes are provided for in this section of Moona CK Rd. However, Cardno Drawing 8016 Rev P0 dated 3.10.08 is the current approved layout for Moona CK Rd and this drawing clearly indicates the provision of two northbound lanes. The single through lane and right turn lane will be provided in the detailed design phase for Moona CK Rd. In this regard Cardno will provide to Council in due course concept design plans for Moona CK Rd with the view of undertaking a concept review with Council prior to finalisation of the detailed design.

- *Moona Creek Road (between Naval College Road and the car park access) > two lanes southbound (exit to Naval College Road). The applicant advises this has been incorporated, however Council has not seen revised plans. It is not reflected on the Modification 3 plans.*

Cardno Response: Due to the scale of the architectural and civil drawings it may not be clear as to exactly how many lanes are provided for in this section of Moona CK Rd. However, Cardno Drawing 8016 Rev P0 dated 3.10.08 is the current approved layout for Moona CK Rd and this drawing clearly indicates the provision of two northbound lanes. The single through lane and right turn lane will be provided in the detailed design phase for Moona CK Rd. In this regard Cardno will provide to Council in due course concept design plans for Moona CK Rd with the view of undertaking a concept review with Council prior to finalisation of the detailed design.



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- *Moona Creek Road (between Naval College Road and the car park access) > median; of minimum 900mm width (include RTA pedestrian fence along full length of median in this section). If no fence is proposed by the applicant a wider median would be required. 2m would be the suggested minimum median width. On the basis of suggested additional parallel parking on the western side of Moona Creek Road the 900mm median and RTA standard pedestrian fence should be provided along this full length. It is not reflected on the Modification 3 plans. Any additional parking in this section shall be west side (parallel) only and appropriate for use by long vehicle parking only.*

**Cardno Response:** The parking on the west side of Moona CK Rd will remain as parallel parking and will be marked as long vehicle parking. It is the intention to provide the 900mm wide median and pedestrian fence as per Councils comment and these details will be finalised prior to the concept design plans being lodged with Council for review.

- *Moona Creek Road (intersection with car park access) > design must ensure that all traffic exiting the car park be forced to turn left out only by way of physical traffic island. Traffic Unit consider that it would be unsafe to allow traffic to turn right out at this location. Traffic may turn "in" to the car park from either direction. It is noted that the applicant has not accepted this restriction however Council as the roads authority will not approve plans without such restriction so it should be incorporated in to the design. If traffic is delayed at the car park access motorists can turn left and go around the roundabout. This is exactly what Council are suggesting however to eliminate the risk of incidents Council require physical works to force traffic to turn left out only. This is not a major works requirement and should be addressed. It is not reflected on the Modification 3 plans.*

**Cardno Response:** It is the intention to restrict turning out of the southern carpark entrance to Moona CK Rd to left turn only as per Councils comment. These details will be finalised prior to the concept design plans being lodged with Council for review.

- *Moona Creek Road (between car park access and Halloran Street) > single lanes in each direction accepted. On the basis of suggested bus stops and additional parallel parking on the western side of Moona Creek Road there must be minimum 900mm median and RTA standard pedestrian fence should be provided along this full length. This is not reflected on the Modification 3 plans. A wider median (suggested minimum 2m) in conjunction with RTA standard pedestrian fencing should be considered on the basis this would present opportunities for land scaping along the median which would improve the appearance and amenity of the area. Parking in this section shall comprise west side (parallel) appropriate for use by long vehicle parking only. The bus bay (west side) needs to be amended to comply with AUSTROADS standards. The bus bay (east side) needs to be amended to comply with AUSTROADS standards. Parking in this section shall comprise east side (parallel parking only which shall include taxi and community bus zone and any residual kerb length can be allocated to general purpose parking with appropriate time restrictions).*

**Cardno Response:** The parking has been amended as per Councils comments. The bus bays have been confirmed as complying with Austroads standards. A decision is yet to be made on the size of the central median (900mm or 2000mm) and this will need to be discussed between Fabcot and Stockland. In this regard Cardno will provide to Council in due course concept design plans for Moona CK Rd with the view of undertaking a concept review with Council prior to finalisation of the detailed design.

- *Moona Creek Road (intersection with Halloran Street) > A mountable roundabout of inscribed circle R10m can be provided within the available road reserve and this should be addressed by the applicant in the interest of traffic and pedestrian safety. This would enable appropriate traffic management and safe pedestrian crossing opportunities on each leg of the roundabout. The marked foot crossings proposed on either side of the intersection are not accepted and unlikely to be accepted by RTA and Local Shoalhaven Traffic Committee.*

**Cardno Response:** A roundabout at the intersection of Moona Ck Rd and Halloran St has never been considered. Stockland would need to be consulted if a roundabout in this location was to be entertained. Refer previous responses to Council and DoP on this item.

- *Moona Creek Road (between Halloran Street and eastern roundabout) > single lanes in each direction is accepted; and median; of minimum 2m width. No fence required along this section of median, however landscaping could be provided to improve the appearance and amenity of the area with designated pedestrian crossing points. On street*

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*car parking shall be parallel (west side) and 45 degree (rear in) east side. The cross section shall be (east to west): 3.6m footpath reserve, 9.8m allowance for 45 degree angled car parking bays (reverse in only) and southbound traffic lane, 2m median, 3m northbound traffic lane, 3m northbound parallel parking lane, and 3.6m footpath reserve (total 25m road reserve). Parking in this section of Moona Creek Road shall be time restricted (both sides) to prevent all day use by employees of the centre.*

Cardno Response: The suggestions by Council above for the section of Moona Ck Rd between Halloran St and the eastern roundabout have been considered and accepted. Due to the scale of the architectural and civil drawings drawings however, it may not be clear in intricate detail. Cardno will provide to Council in due course concept design plans for Moona CK Rd with the view of undertaking a concept review with Council prior to finalisation of the detailed design.

- *Moona Creek Road (at eastern roundabout) > roundabout is accepted; ensure non-mountable roundabout is provided of inscribed circle R16m to satisfy the requirements for large rigid buses to turn around and semi-trailer access to the eastern component of the development.*

Cardno Response: Noted.

Yours faithfully



Mark Klein  
Project Director  
For **Cardno (NSW/ACT) Pty Ltd**