



25 May 2021

TfNSW Reference: SYD20/00390/05

Client Reference: SSD-10446

Director Industry Assessments
Department of Planning, Industry and Environmental
Locked Bag 5022
Parramatta NSW 2124

Attention: Ellen Luu

RESPONSE TO SUBMISSIONS FOR LUDDENHAM CLAY/SHALE QUARRY TRANSPORT OPTIONS - 275 ADAMS ROAD, LUDDENHAM

Dear Sir/Madam,

Reference is made to the Department of Planning, Industry and Environmental (DPIE) correspondence dated 15 March 2021, regarding the abovementioned Application which was referred to Transport for NSW (TfNSW) for review under the *State Environmental Planning Policy (Mining, Petroleum Production and extractive industries) 2007*.

TfNSW has reviewed the submitted information and does not support the proposed intersection upgrade design under Section 138 of the *Roads Act 1993* in its current form. As such, TfNSW requests additional information addressing the following issues to be submitted to TfNSW for review prior to the determination of the application:

1. It is understood that the Elizabeth Drive and Adams Road intersection will be upgraded allowing only left-in movements from Elizabeth Drive into Adams Road. The exiting vehicles from the proposed Resource Recovery Centre will be distributed to the broader road network via The Northern Road and Adams Road intersection.

As such, it is requested that The Northern Road / Adams Road intersection should be assessed with this future traffic distribution in the traffic impact assessment and the SIDRA modelling.

2. TfNSW understands that the proposed 90m long deceleration lane in the interim upgrade of Elizabeth Drive and Adams Road intersection is based on the requirements set out in Austroads for a design speed of 90 km/h with the deceleration rate of 3.5 m/s to a stop condition. As the left turn lane will mainly accommodate heavy vehicles, such as 26m B-Doubles, a deceleration rate of 2.5 m/s should be used with a turning speed of 20 km/h. This will require 120 metres including taper for the deceleration lane for the left turn movement.

As such, the concept design plan should be updated to address the above issue with showing the dimensions and submitted to TfNSW for review and approval.

3. A civil design plan of the interim intersection upgrade with relevant lane dimensions should also be submitted to TfNSW for review and approval.
4. It is also requested that a stormwater management plan for the proposed intersection upgrade should be provided to TfNSW for review and approval. A table drain system could be considered subject to the further design and approval by TfNSW.

Furthermore, TfNSW also provides the following comments for the submitted concept plan and signage and linemarking plan:

- Left turning pavement arrow spacing distance should be in accordance with AS 1742.
- The Give-way signage and linemarking should be demarcated according to TfNSW's Delineation manual Section 6 – Transverse markings. The TB and TB1 linemarking should be provided as per page 7 on the following link: https://roads-waterways.transport.nsw.gov.au/business-industry/partners-suppliers/documents/technical-manuals/delineation/delineationsect6v12_i.pdf
- C1 linemarking should be provided between lane one and two on Adams Road.
- The raised concrete median should be installed at Adams Road to enhance the safe turning path of heavy vehicles at the intersection subject to Council's satisfaction.
- A 'Keep left' R2-3_L signage should be provided on the central median, on Adams Road, facing north.
- T1 linemarking between the left turning bay and through lane on Elizabeth Drive should be changed to C1.
- A 2.0m sealed shoulder should be provided to the deceleration lane and the departure kerb return from Adams Road.
- It is noted that the existing safety barrier along westbound Elizabeth Drive will be impacted by the proposed intersection upgrade. Measures should be provided to mitigate this impact.
- The concept design plan should identify the utility infrastructure to be impacted by the intersection upgrade and the relocation of these impacted infrastructures.

Upon receipt of the above requested information, TfNSW will undertake further review and provide a response accordingly in accordance with the *Roads Act, 1993*.

If you have any further questions, Mr. Felix Liu would be pleased to take your call on 8849 2113 or email development.sydney@rms.nsw.gov.au. I hope this has been of assistance.

Yours sincerely,



Malgy Coman
Senior Land Use Planner