

Memorandum



Date: Monday, 31 July 2023

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To: Jessica Head – Planner Calibre

Copy: 1

From: Calibre

Ref: DA23/4918

Subject: Use of Existing Illuminated Advertising Signs at Old Windsor Road, Bella Vista

Attention: Jessica Head

Dear Jessica,

Re: Use of Existing Illuminated Advertising Signs at Old Windsor Road, Bella Vista.

Calibre structural team has prepared responses below to items 3 to 5 in the Request for Further Information requested by NSW planning dated the 3rd of July 2023.

3. A condition assessment is required for Calibre to confirm the signs are structurally sound to be used for an additional 15 years. Access to the interior of sign structure is required to complete this task which will require access by suitability qualified personal. Calibre may also require on-going periodic inspections during the nominated 15 years subjected to the current condition of the signage structure.
4. The signage structure complies with the AS/NZS 1107.1:2002 Structural Design Actions Part 1: Imposed and Other actions.

Signage Dead Load (self-weight) (G) 39.24 kN

Signage Live Load (Q) 16.0 kN

The signage structure complies with the AS/NZS 1107.2:2021 Structural Design Actions. Part 2: Wind Actions

Importance level: 2

Annual probability of Exceedance: 1/500

Region: A2

Terrain Category: (TC) 2.0

Shielding Multiplier: (Ms) 1.0

Topographic Multiplier: (Mt) 1.0

5. A fall arrest system is not currently in place for the signage. Calibre has prepared a sketch of a fall arrest system for the signs. The signs are to be supported by the fall arrest system fixed to the top bridge structure at 3 locations for each sign. The signage structure has not been designed for impact loading however the fall arrest system has been designed to support the signage structure in the event the primary signage supports (structural supports under the sign structure) are damaged due to an impact by an over height vehicle. The existing signage supports are currently bolted to the signs and will also be supported the fall arrest system. The fall arrest system is reliant on the signage structural integrity remaining intact after the vehicle impact. Localised damage to the sign structure may lead to debris falling on to the roadway.

Regards,

A handwritten signature in black ink, appearing to read "Glen Iseppi".

Glen Iseppi
Associate Engineer
Calibre Group

Attached: Sketch SK020603-1 Pedestrian Bridge signage – Fall arrest detail.