

REVERB ACOUSTICS**Noise and Vibration Consultants**

Our Ref: 20-2480-L3

25 August 2021

Catalyst Project Consulting Pty Ltd
 5/91 Hannell Street
 WICKHAM NSW 2293

Attention: Kris Leckemail: kris.leck@catalystpc.com.au**RE: - HILLSBOROUGH INDOOR STADIUM – OPTION 2 REVISED DESIGN**

This letter has been prepared to assess the acoustic implications of Option 2 Development Design modifications for the Hillsborough Indoor Stadium at 62 & 62A Hillsborough Road and 109-117 Waratah Avenue, Hillsborough. This letter is to be read in conjunction with Reverb Acoustics Report 20-2480-R1, dated May 2020 (referred to as RA-R1 in this letter) and 20-2480-L2, dated 24 March 2021 (referred to as RA-L2 in this letter).

Shown below are details of the original design and proposed Option 2 design based on current EJE Architecture plans, Rev D, dated 19 August 2021:

Original Design

10 full size courts including Show Court
 Show Court capacity 3800 seated + staff
 Ground Floor Function Room

Proposed Option 2 Design

10 full size courts including Show Court
 Show Court capacity 2200 + staff
 Function Room relocated to Upper Level

REVERB COMMENT 1 (Road Traffic Noise): The updated Seca Solution Traffic report¹ suggests that up to 335 vehicles will arrive at the site during a 2 hour period, together with 335 vehicles departing the site. Quoted numbers are unchanged from the previous February 2021 traffic report, therefore, road traffic noise impacts assessed in the RA-L2 report remain unchanged. No further assessment is required.

REVERB COMMENT 2 (Function Room): The Function Room has been relocated to the Upper Level on the south west facade. Consultation with our client reveals that the Function Room will not be used for functions requiring amplified entertainment, i.e. no Discos or live bands, rather the intended use is for more sedate activities such as presentations, award nights, meetings, etc. As such, relocating the Function Room creates a positive acoustic impact by lowering acoustic impacts in the residential areas.

In the unlikely event of complaint, we recommend the installation of an electronic Noise Limiter in the Function Room or any other affected area. These devices have been proven capable of controlling low frequency emissions and are a cost effective solution for minor noise exceedances.

¹ Seca Solution Pty Ltd (25 August 2021). *Proposed New Indoor Stadium, 62 & 62A Hillsborough Road and 109-117 Waratah Avenue, Hillsborough, NSW.*

Building Acoustics-Council/EPA Submissions-Modelling-Compliance-Certification

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REVERB COMMENT 3 (Show Court): The capacity of the Show Court has been reduced by approximately 50%. Once again, a positive acoustic impact will result by lowering received noise in the residential area. Nonetheless, to provide a measure of conservatism, construction details for the Show Court in the RA-R1 report remain valid and are to be incorporated into the design.

REVERB COMMENT 4 (General Comments): No change to impacts from the carpark, outdoor areas, practice courts and mechanical plant are expected, providing all recommendations detailed in the RA-R1 report are incorporated into the design of the site.

We assume this concludes our involvement in the project thus far. However, should you require further information, please contact the undersigned.

Steve Brady M.A.S.A. A.A.A.S.
Principal Consultant