

# Appendix D-1

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Environmental Noise Study

16 August 2021

Anthony Lombardo  
**Anthony Lombardo & Associates**  
144 West Gabilan Street Salinas, CA 93901  
[tony@alombardolaw.com](mailto:tony@alombardolaw.com)

**Subject: Avid Hotel, 2101 North Fremont Street, Monterey, CA  
Environmental Noise Study  
Salter Project 21-0370**

Dear Anthony:

We have conducted an environmental noise study for the Avid Hotel project based on the 22 June 2021 project drawings. The purpose of the study is to quantify the noise environment at the proposed site, compare measured data with applicable standards, and provide mitigation measures as necessary to meet those standards. This report solely addresses noise received inside the hotel. Analysis of the proposed hotel's potential noise impact to surrounding land-uses is provided in a separate report.

## **SUMMARY**

Based on our noise measurements and analysis, we find that outdoor noise can be reduced to meet State and City noise requirements in guestrooms and other spaces within the hotel. Required measures are described below. Based on our experience, window and PTAC units are readily available in the market which meet the required sound ratings.

## **PROJECT CRITERIA**

### ***State Noise Standards***

The 2019 California Building Code, Section 1206.4, requires that the indoor noise level in hotel guestrooms not exceed CNEL<sup>1</sup> 45 dB.

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<sup>1</sup> CNEL (Community Noise Equivalent Level) – A descriptor for a 24-hour A-weighted average noise level. CNEL accounts for the increased acoustical sensitivity of people to noise during the evening and nighttime hours. CNEL penalizes sound levels by 5 dB during the hours from 7 PM to 10 PM and by 10 dB during the hours from 10 PM to 7 AM. For practical purposes, the CNEL and DNL are usually interchangeable.





Google Earth

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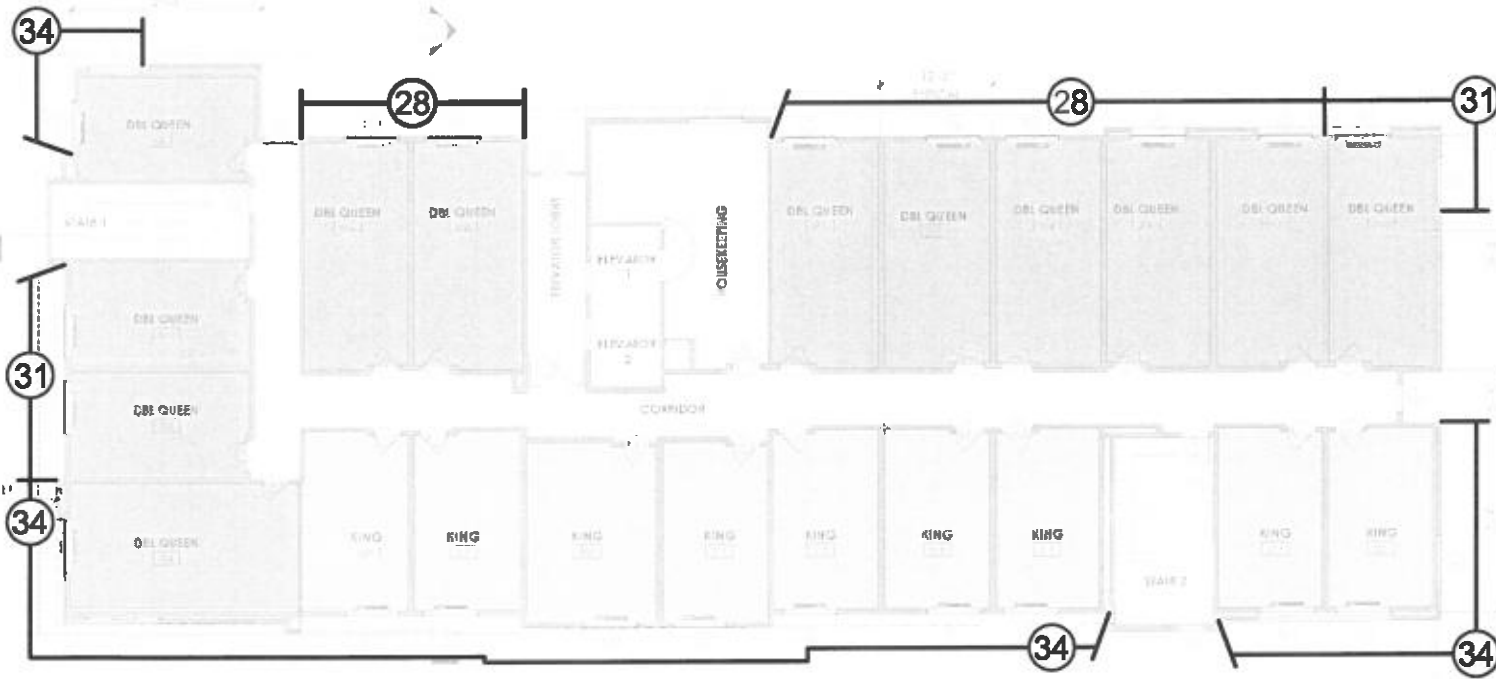
# AVID HOTEL MEASUREMENT LOCATIONS AND MEASURED NOISE LEVELS

## FIGURE 1

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CASA VERDE WAY



NORTH FREMONT STREET

NOTE: STC RATINGS ARE FOR THE COMPLETE ASSEMBLY (E.G., GLASS, FRAME, AND OPERABLE SECTIONS) BASED ON TEST REPORTS FROM AN NVLAP-ACCREDITED LAB

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# AVID HOTEL

## MINIMUM CODE-REQUIRED STC RATINGS FOR WINDOWS AND EXTERIOR DOORS (FLOORS 2 AND 3)

### FIGURE 3

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