



Cawley Architects  
Justen Cassidy  
730 N 52<sup>nd</sup> Street #203  
Phoenix, AZ 85008

October 5, 2018

Dear Mr. Cassidy,

ACS has been asked to assess the potential noise impact from the proposed new drop-off location at the Paradise Valley Medical Plaza (5410 N Scottsdale Rd, Paradise Valley, AZ).

### **Screen Wall**

Based on noise level measurements and calculations, ACS compared the potential noise sources (car horn, engine, door slam) at the proposed new drop-off location to the current drop-off location at the existing covered parking spaces. The proposed new drop-off location (see attached site plan) will be farther from the residential property and shielded by an 8' screen wall. The noise to the nearest residential property will be 6.1 decibels quieter from the screened new drop-off location than from the current drop-off location. This is a "clearly noticeable" reduction in the potential noise impact.

### **Screen Wall vs Property-Line Wall**

The screen wall at the drop-off location will reduce more noise than raising the property-line wall by 2'. Raising the property-line wall to 8' (if feasible) would reduce the potential noise impact by approximately 2.5 decibels. (A 3 decibel reduction would be classified as "barely noticeable".)

### **Frequency of Drop-Offs**

ACS has been informed that the new drop-off location may service 3 surgery suites instead of the current 2 surgery suites. This will not increase the potential maximum noise, but it will increase the potential number of drop-off occurrences. Increasing the number of noise events by 50% would increase a time-weighted average noise level by 1.8 decibels. This would be more than compensated by the screen wall noise attenuation.

### **Conclusion**

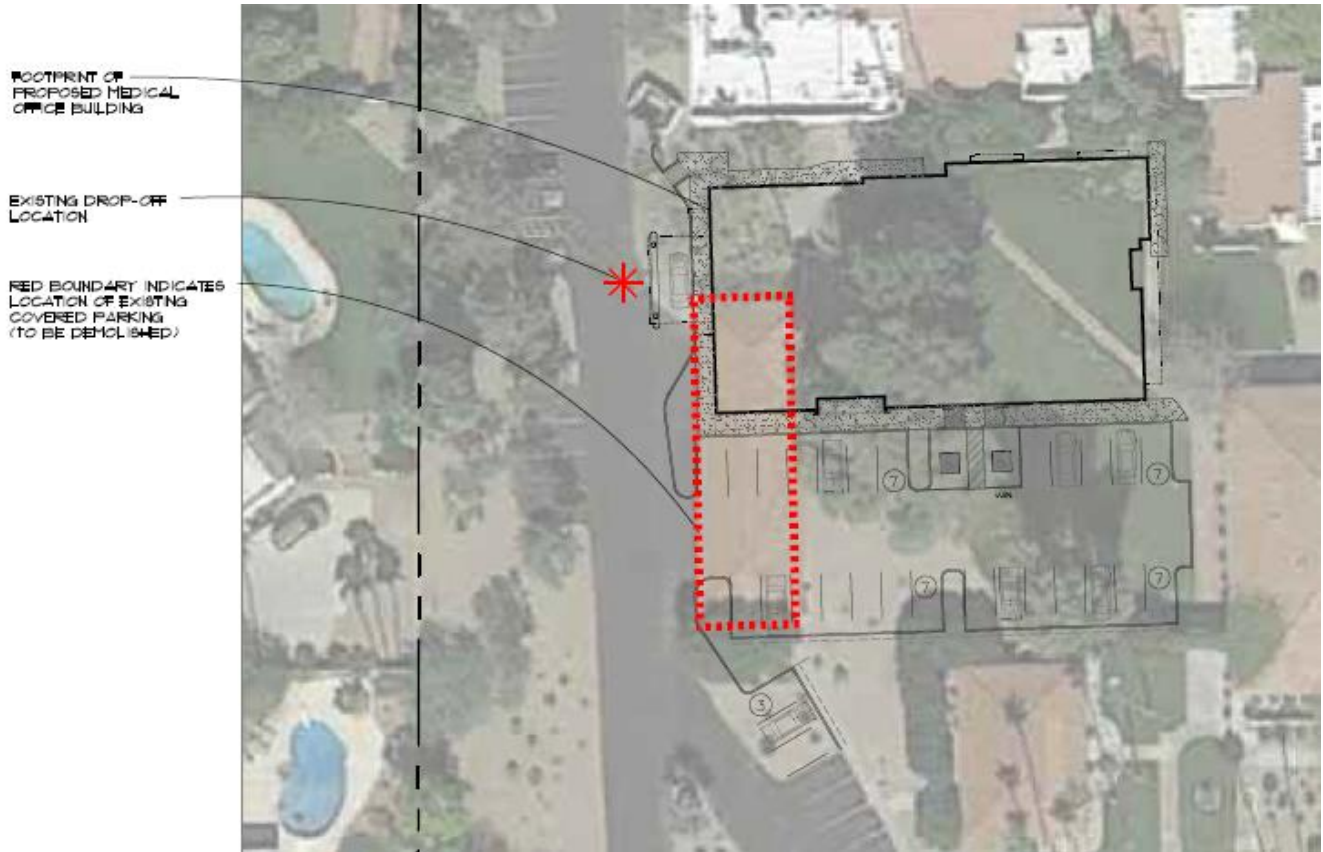
The proposed shielding at the new location will reduce the potential noise impact by a clearly noticeable amount compared to the current drop-off location.

Please let me know if you have any questions or need additional information.

Respectfully,

**Tony Sola**  
Acoustical Consulting Services

# Site Plan



# Screen Wall

