

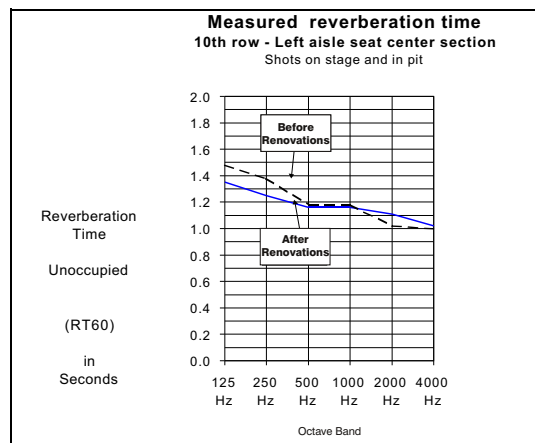
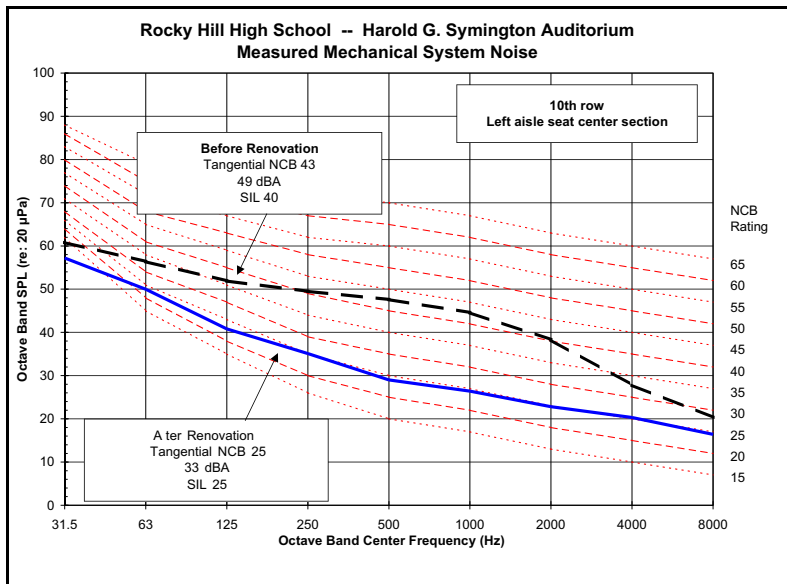
# Harold G. Symington Memorial Auditorium

ROCKY HILL HIGH SCHOOL  
 RENOVATION COMPLETED 2001

Acoustics Consultant:  
 Project Architect:  
 Owner:  
 Interior Design:  
 MEP Engineer:  
 Construction Management:  
 Construction Cost:

Brooks Acoustics Corporation - Vernon, CT  
 Somes Associates - Rocky Hill, CT  
 Town of Rocky Hill, CT  
 Vinick Associates - Rocky Hill, CT  
 Charles Georgie Associates - West Haven, CT  
 Standard Builders - Newington, CT  
 \$1.6 Million

A major renovation of this 1950's era, 734 seat auditorium was undertaken to address much needed work for code compliance. In the process, it was decided to improve the acoustical function of the space. The auditorium is used for instrumental and choral musical productions, musical and dramatic theater, and an occasional speech. Acoustical problems included a very high noise level from the mechanical system, slap-back echoes on the stage, and dead spots in the audience. Computer modeling of the HVAC systems was used for the rehabilitated design, which included new air handlers, massive silencers and vibration isolation for both the house and the stage units. The ceiling profile, back walls and control booth at the rear of the hall were redesigned using computer modeling techniques, including ray tracing and auralization of the space, to eliminate echoes and improve coverage in the hall. Auralization examples were very effective in gaining the support of the Board of Education for the project. The completed renovation met all project expectations. The HVAC systems may now be operated during performances, providing audience comfort. Improved clarity and uniformity of sound coverage in the house, and the elimination of echo anomalies greatly enhance the acoustical function of this space.



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