

## PROJECT PROFILE: SANCTUARY

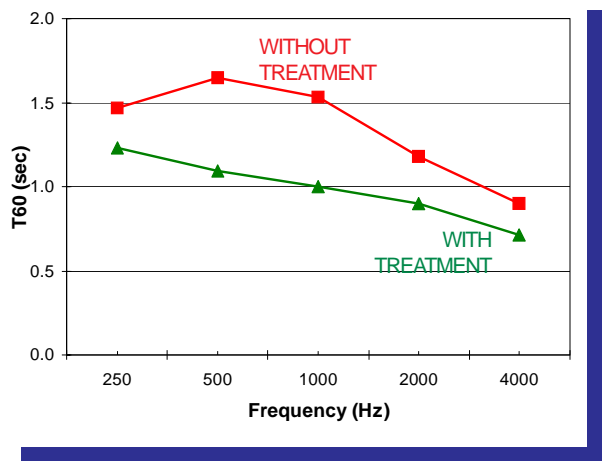


**PROJECT:** UNITED CHURCH OF CHRIST  
Bismarck, North Dakota

When the United Church of Christ decided to expand and remodel their Sanctuary, they wanted to solve their acoustical problems. The choir complained that they could not hear each other, and there were “hot” and “dead” spots in the congregational seating area. Big Sky Acoustics was hired to provide an acoustical design of the remodeled Sanctuary, in order to solve existing and prevent new acoustical problems.

### BSA's SERVICES AND SOLUTIONS:

- Predicted the reverberation time in the existing and remodeled Sanctuary for comparison.
- Determined the proper amount and placement of sound absorbing material on the back wall and in the clerestory to prevent echoes.
- Recommended finishes in the altar and choir areas to help with the natural projection of sound without the use of a sound system.
- Recommended the use of a quadratic diffuser in the choir area, located behind the altar, to help the choir members hear each other.



The Church implemented Big Sky Acoustics' recommendations for the remodeled and expanded Sanctuary. The Church is very pleased with the results of the acoustical modifications and the functionality of the space.