

PROJECT PROFILE: **SANCTUARY**



PROJECT: HOPE LUTHERAN CHURCH
Bozeman, Montana

Hope Lutheran outgrew their old facility in downtown Bozeman, and planned a larger church in the valley south of town. From the outset, the Church deemed acoustics as “vitaly important”. The architect chose Big Sky Acoustics to design the acoustics of the Sanctuary, so that all aspects of the service, including sermons, choral music, children’s programs, and the large pipe organ, were enhanced.

BSA’s SERVICES AND SOLUTIONS:

- Developed acoustical guidelines to steer the design, including:
 - ◇ Volume-to-seat ratio,
 - ◇ Ceiling height and finish,
 - ◇ Floor and seating materials,
 - ◇ Wall constructions and finishes, and
 - ◇ Mechanical equipment selection.
- Provided specific mechanical system design requirements addressing the fans and air handling units, turbulence, diffusers, grilles, and vibration isolation issues.
- Completed a room acoustics analysis and designed the Sanctuary to balance music and spoken words.
- Determined the appropriate area and acoustical material for the sound-reflecting and sound-absorbing surfaces in the Sanctuary.

The Sanctuary acoustics are so highly regarded that the space is used by many musical performers and the MSU orchestra.

