Kartchner Engineering

Mechanical and Plumbing Design

HISTORIC PROJECTS

Gonzaga University
College Hall

Australian Ambassador

St. Aloysius Church

Gonzaga University – College Hall
Spokane, WA

The College Hall Building was first built in 1898, with an addition finished in 1903. College hall was one of the very first buildings built for Gonzaga University and was visited by President Roosevelt in 1903. In 2004, renovations were started on the fourth floor of the administration building. These renovations initiated some studies to provide cooling and ventilation as window units had been used previously. Mark Kartchner performed this study, and has spent the last six years implementing a four pipe fan coil cooling, and heating system for the administration building. Currently 40% of the building is now mechanically cooled and ventilated with plans for the other 100% of the building. Great care has been taken to maintain the historical nature of the Gonzaga Administration building.

Gonzaga University – Magnuson Theatre
Spokane, WA

The Magnuson Theatre is part of College Hall and holds over 200 people per performance. Kartchner Engineering designed a mechanical system in early 2011, and the system will be installed by fall of 2011. Creative effort was required to place an 8000 CFM air handler in this building without compromising the historic architecture. Outside air louvers were installed in existing windows high above the campus. The air handler was installed in the upper attic of the Theatre to avoid sound issues during performance.

Australian Ambassador's Residence
Washington D.C.

While working for Vanderweil Engineers in Washington D.C, Mark Kartchner spent months designing mechanical ventilation and cooling system for the Australian Ambassadors Residence. The Ambassadors residence used window units for cooling before the four pipe fan coil system was installed. Fan coils were installed in a newly created space in the attic, and great care was taken to hide grilles in existing walls.

St. Aloysius Church
Spokane, WA.

St. Aloysius church was dedicated October 12, 1911. It has the largest seating capacity among Catholic churches in Spokane, able to accommodate 1,100 worshippers. Kartchner Engineering conducted a study and design for cooling St. Aloysius Church in 2011.

Union Block Building
Boise, ID

Riggins Lodge
Rggins, ID

Pullman City Hall
Pullman, WA

8th Street Hotel
Boise, ID

1510 13th Street Historic Renovation
Boise, ID

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Spokane, WA

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