

# STRUCTURAL ENGINEERING

Strong delivery, flexible solutions



Fire Station 35, Seattle, WA



Grays Harbor County Courthouse, Montesano, WA



Naval Hospital Bremerton, Bremerton, WA



Revit Rendering - Charleston Gate, U.S. Navy Bremerton, WA



Bachelor's Enlisted Quarters (P305) and Parking Garage, U.S. Navy, Bremerton, WA



Larrabee Elementary School, Bellingham, WA



Providence Alaska Medical Center Parking Garage, Anchorage, AK



Food Safety Lab, Department of Environmental Conservation, Anchorage, AK

## FACILITY TYPES

### Aviation

Hangars  
Terminals  
Support/Maintenance Facilities

### Academic

K-12  
Higher Education

### Civic/Public

Civic Centers  
Libraries  
Sports & Recreation  
Justice  
Fire Stations  
Senior & Youth Centers

### Commercial

Office & Retail  
Banking  
Hospitality  
Mixed-use

### Healthcare

Hospitals  
Clinics  
Laboratories

### Renovation

Seismic Risk Assessment  
Seismic Retrofit  
Historic Preservation

### Waterfront

Marine Structures  
Over-water Facilities  
Upland Structures

### Special Projects

Parking Structures  
Bridge/Transportation  
Industrial  
Military  
Code Consulting

# REID MIDDLETON STRUCTURAL ENGINEERING EXPERIENCE

## Historic Renovation

Reid Middleton's structural engineers have experience upgrading and improving many significant older and historic structures. Our engineers appreciate that, when working with historic buildings, the best solutions are the ones that are least noticeable once construction is complete. Historic buildings are high-profile projects that require low-profile solutions. We also excel at providing informational boards and public presentations to explain what our designs will do and how they meet the community's vision of their beloved building.

## Seismic Retrofit

Structural engineering at Reid Middleton has focused on the design of efficient and effective seismic upgrades. Over the past seven years, we have designed more than 90 seismic upgrade and renovation projects and designed more than six million square feet of new buildings. This includes work on a variety of fire stations and critical transportation facilities, Anchorage International Airport, and essential pier facilities for the United States Navy.

## Public Sector Facilities

Eighty-nine percent of Reid Middleton's projects are for public-sector clients. Each day, our engineers interact with municipalities and government agencies. As a result, we understand the issues public agencies deal with on a regular basis, and our project managers excel in working successfully with public clients.

## Critical Infrastructure

As a regional leader in the application of Performance Based Design for critical facilities, we have developed innovative techniques to retrofit critical buildings. By using a combination of traditional construction methods with forward-looking energy dissipation and fiber-composite construction, we have been able to minimize the aesthetic impact of seismic strengthening while saving time and money. Reid Middleton's experience includes the design, renovation, and evaluation of more than 40 fire stations, and dozens of other critical buildings, military facilities, and hospitals.



## IMPROVING HEALTHCARE SAFETY

Over the last 10 years, the U.S. Navy has been quietly improving the seismic safety and earthquake preparedness of major medical facilities on the West Coast of the United States. Seismic safety programs have been developed for Naval Hospital Bremerton (NHB), Naval Medical Center San Diego (NMCSD), and Naval Hospital Twentynine Palms (NHTP) totaling nearly 2.8 million SF that combine a comprehensive seismic upgrades program with the development of a post-earthquake assessment program. These seismic programs have spawned innovations in seismic upgrade design and the tools available for the post-earthquake inspection of critical facilities.

## A word from our clients:

### Performance regarding Naval Hospital Bremerton Seismic Upgrades

"The seismic renovation project was complex and challenging. While our primary goal was to improve the seismic performance for the hospital, a secondary goal was to perform the work in our operational hospital without significantly impacting the medical mission. Reid Middleton utilized innovative methods to satisfy both of these goals."

Russ Kent - Facility Manager  
Naval Hospital Bremerton

### Performance on Grays Harbor County Courthouse Seismic Renovation, Montesano, WA:

"In my 25 years of experience in public works projects, I have not been more impressed with a company's service capabilities than I am with Reid Middleton. From the project manager, Dave Swanson, to the project engineer, . . . the demonstrated skills, sensitivity, and a common sense approach have always been evident."

Michael Daniels - Director of Public Services  
Grays Harbor County

### Performance on Ted Stevens Anchorage International Airport Seismic Upgrades, Anchorage, AK:

"Their engineers have established a strong working relationship with our staff, as well as other members of the large multi-disciplinary design team. We are very satisfied with their expert engineering capability and their ability to easily communicate often complex engineering issues in simple, easy to understand terms."

Glen Fuglestad - Terminal Redevelopment Port Manager  
State of Alaska, Department of Transportation & Public Facilities

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