

Seismic Project Summary

Larrabee Elementary School

- Added concrete shear walls at portions of each building face to enhance seismic shear resistance
- Constructed new concrete footings below each concrete shear wall
- Provided steel beams between shear walls for supplemental support and seismic force collection
- Installed plywood shear walls in attic to resist roof seismic loads via attic diaphragm
- Provided steel angles in attic as seismic force collectors
- Added plywood sheathing at floor and attic levels to enhance seismic resistance
- Tied existing joists to masonry walls
- Installed masonry ties at gym structure to tie brick facing to wood studs
- Replaced main entry stairs with modern stair structure
- Painted interior spaces and installed new flooring in areas impacted by the work
- Added casework to several classrooms

Seismic Project Summary

Lowell Elementary School

- Added concrete shear walls at portions of each building face and two interior hallways to enhance seismic shear resistance
- Constructed new concrete footings below each concrete shear wall
- Replaced several interior non-bearing clay tile walls with seismically-resistance metal stud walls
- Added plywood sheathing at floor and attic levels to enhance seismic resistance
- Replaced deteriorated wood roof structure with a steel beam and joist system.
- Tied existing joists to masonry walls
- Re-pointed existing exterior masonry to strengthen and preserve the structure
- Painted exterior
- Painted interior spaces and installed new flooring in areas impacted by the work
- Added casework to several classrooms
- Installed new DDC system to control heating and ventilation system

Seismic Project Summary

Columbia Elementary School (2-Story Section Only Unless Noted)

- Installed plywood shear walls in attic to resist roof seismic loads via attic diaphragm
- Provided steel angles along walls to act as seismic force collectors
- Added plywood sheathing at upper floor and attic levels to enhance seismic resistance
- Tied existing joists to concrete walls
- Tied floor and roof beams to supports at cafeteria
- Added roof ties at the boiler room
- Added siding shear connections and beam ties at the covered play area
- Painted interior spaces and installed new flooring in areas impacted by the work
- Added casework in two classrooms