

## Long Residence

CUTLER ANDERSON ARCHITECTS

Set on a wooded site on the north shore of Orcas Island, Washington, the 2,035sf residence accommodates a couple and their occasional guests. A simple shed roof opens the residence completely to the water and main part of the site, then slopes back to close it off from the easement road above.

The structure of the building is fully displayed. While not unusual to see log construction used on wooded sites, the logs are expressed in a fresh, non-traditional way. The log assemblies, consisting of log roof beams and log tripod columns, were pre-built off site in the builder's shop, then shipped and erected on site with minimal disturbance. The tripod columns fit into the log beams using concealed steel plates and bolts, and provide the required lateral stability without further need of beam-to-column bracing.

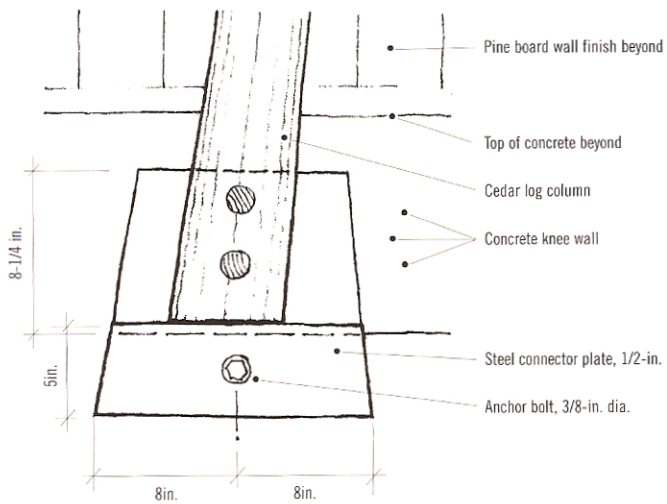
Doubled 2x8 rafters span from the rear wall to the central log beam from where 2x12 rafters take over to span the greater distance to the front window wall. The rafters rest on 4x4 plates scribed and mechanically fixed into the tops of the log beams at varying depths depending on the diameters of the logs at any given location. The short legs of tripod columns at the rear wall attach to exposed steel plates. The full-height columns punch through the floor, made obvious by a scribe line and shadow that produce a reveal around the column at the floor. The column extends down to a steel connection at the footing. The roof is built-up decking over the rafters, 2x6 framing and rigid insulation, 1/2-in. plywood and a metal roof.



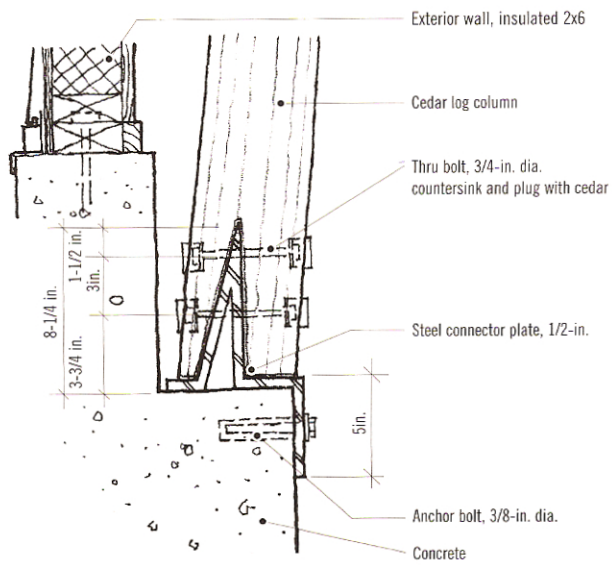








Elevation, column base connection



Section, column base connection

