

# CLIFF HOUSE

## Corkins Lodge Chama, New Mexico

efficiency | sustainability | simplicity

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### Project description:

The Cliff House is a private residence situated, as the name implies, above a dramatic cliff near New Mexico's Brazos River. Designed by Antoine Predock Architect, the project posed several structural and mechanical challenges. The unusual materials palette mixes modern concrete and glass with rustic timbers. It has been designed to completion but is awaiting construction.

### Structural Systems:

The structural systems for the Cliff House included cantilevered concrete construction that extends as much as twenty feet beyond competent bearing material, long open spans, double cantilevered details, and wildly skewed angles. Extensive rock anchors restrain the uplift forces at the back of the cantilevers.

### Mechanical Systems:

The modern design and mountain climate of the Cliff House created HVAC challenges. To solve these problems, REG worked closely with the architect to use tactics such as radiant heating in concrete walls. The cantilevered glass shower floor (perched above the cliff) received a small ventilation system to prevent condensation between the tempered glass layers.

