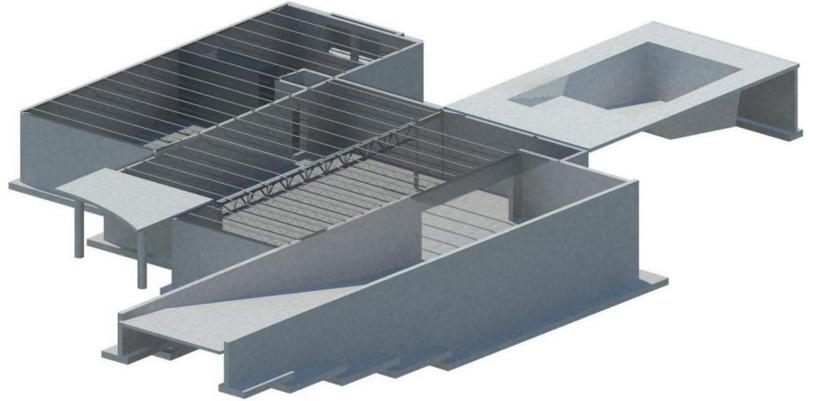


# Appoo Residence

EDMONTON, ALBERTA

\$2.3 Million Budget | 12,800 sq.ft. total area including u/g parking and roof decks | 6 car underground parking | Glu-lam post & beam framing for pool house | Customized Hambro & structural steel transfer framing on main floor | completed 2013

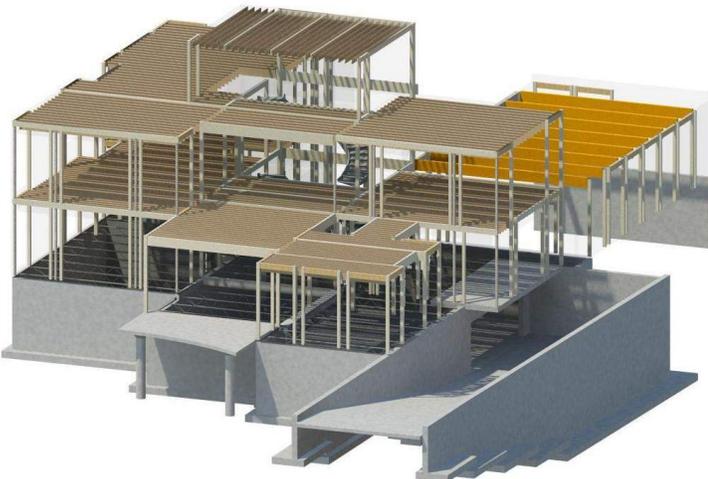


Luxury residence projects are often audacious in their conception and the Appoo residence was no exception to this tendency. Initially Bold Design asked Ethos Engineering Inc. to design only the long span main floor transfer framing and supporting reinforced concrete foundations. However, the large spans, open spaces and considerable amount of glazing for the three levels of house construction demanded that Ethos offer our expertise in solving the multitude of framing challenges presented this project.

Bold Design insisted that the client profit from the unparalleled views of Edmonton's river valley presented from the front of the residence by proposing glazing for almost 90% of the east-facing exterior walls. Ethos was able to offer an efficient solution to the challenge of providing wind-resistance by embedding hybrid steel-wood moment frames within the remaining contiguous wall space along the east exterior walls.

A impressive three level staircase offered access not only to the views to the east but also through the three levels of uninterrupted glazing off of the back of the house facing to the west. Ethos designed and detailed an engineered wood solution to economically support the glazing panels to ensure a durable service life.

Once the main residence was under construction, Bold Design and the client wanted to preserve the framing from the existing semi-detached pool house. Ethos and Bold Design came up with a concept where the existing exposed glulam framing could be restored and reused in situ thus preserving the warmth and charm of Douglas Fir framing in the recreational space.



Superior Structural Value  
[info@ethos-engineering.com](mailto:info@ethos-engineering.com)