



Mattson Macdonald Young are Engineers for Five of AIA Minnesota and Star Tribune's "Home of the Month" Selections

Mille Lacs Fish Camp – Swan Architecture:

A new 20'x60' wood framed lake cabin. The front half is one room with a 20' high vaulted ceiling; the other half is living space with a loft above. There is a full basement below. The most notable structural feature is the lateral load resisting system, the end wall is very open because it faces the lake yet it resists considerable lateral wind load. Alas, this notable structural feature is hidden from view, which may have been the point of the architecture.

Hanson Addition - Nguyen Architects, Inc.:

The structural design on this project is relatively typical of some of the smaller residential projects that we do. There were numerous modifications to the existing structure, opening up the interior, adding openings, an addition on one side, and a new entry canopy. Our experience in renovations of homes of all ages is invaluable for projects like this.

Lake Sylvia Retreat – Rehkamp Larson Architects, Inc.:

This unique structure made use of Structural Insulated Panels (SIPS) over timber framing. The large views of the lake can be seen through window openings that challenged the lateral wind load designs. A small private balcony jutting out of the 2nd floor offers the owners a quiet get-away from public areas of the house.

Grussing Renovation – Rehkamp Larson Architects, Inc.:

Additional upper floor bedroom space was obtained using the existing house footprint and a rear addition. Shallow steel beams and attic girder trusses were used to hide as much structure as possible. This older house was originally framed sparingly, and as a result challenged our engineers to add framing while limiting deconstruction on the main level.

Deephaven Revival – TEA2 Architects, Inc.:

A wide open floor plan at the new rear addition that matched existing ceiling heights resulted in using engineered lumber and steel beams for much of the framing. The music room has a cantilevered window bench seat that was structured into the existing bearing walls. Most of the rear addition has made use of the southern exposure with large areas of windows.