

# CUSTOM HOMES

**CUSTOM HOME BUILDERS, MANUFACTURING COMPANIES, ARCHITECTS/DESIGNERS OF RECORD**

## NATIONWIDE

Structural engineering design of gravity and lateral elements for residential custom homes located across all North America.



## CHALLENGE

The demand of the building season in various regions of the country creates a need for quick turnaround times. Each phase of the design is critical to the next. In order to gain permitting quickly and avoid other project delays, understanding the various challenges of specific locations due to landscape, soil conditions, weather conditions and different jurisdictional regulations is critical to quick turnaround times. Coordination and communication are also critical to efficiently and effectively working together to have a shared result of completing the project quickly.

## SOLUTION

Our first step is to understand our client's product and develop systems and streamline processes and communication while not reinventing the wheel. The permitting requirements across North America often require that the final submitted plans to the authority having jurisdiction so they can be stamped and signed by a licensed structural engineer. Our analysis includes looking at all gravity design elements such as roof and floor beams, girders and trusses so that we can properly size foundation and framing elements. We review tall wall applications and then any hillside or foothills requirements. Some jurisdictions also require full lateral analysis on the building structure that includes, but is not limited to shear walls, fastener requirements, holdowns and diaphragm nailing. Our experience throughout North America brings the knowledge of what is needed and required in different jurisdictions. Through our development of processes and communications with our clients, we are able to be their structural engineer of choice no matter where they are so they may maintain consistency of quality, production and turnaround times as well as a trusted relationship.

## TEAM MEMBERS

**BRIAN SIELAFF, M.S.C.E., S.E., P.E., P. ENG.**  
CEO

**DOUG HARDIN, P.E.**  
Director of Engineering, Principal

**TYLER MAIER, E.I.**  
Project Engineer

**MICHAEL ALLISON, E.I.**  
Project Engineer

**BETHANY MARCH, E.I.**  
Project Engineer

## SERVICES

**STRUCTURAL SYSTEM EVALUATION**

**STRUCTURAL DESIGN & ANALYSIS**

**STRUCTURAL BIM/REVIT**

**VALUE ENGINEERING**

**CONSTRUCTION ADMINISTRATION**

**TAMARACK GROVE**

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