

# SEAU Recommended Minimum Requirements For Residential Submittal

## Plans

- **Footing & Foundation Plan**
  - Footing sizes and reinforcement
  - Hold-down sizes and locations
  - Sill plate anchorage
  - Foundation wall size and reinforcing
  
- **Floor Framing Plans**
  - Beam & joist sizes and spacing
  - Column sizes
  - Lateral bracing element locations and sizes
  - Lateral vertical floor ties (hold-downs)
  - Connection callouts or detail references
  - Collectors and struts
  - Design loads
  
- **Roof Framing Plans**
  - Beam & joist size and spacing
  - Column sizes
  - Lateral bracing element locations and size
  - Connection callouts or detail references
  - Collectors and struts
  - Design loads
  
- **Details**
  - General structural notes denoting material strengths/grades and general structural requirements
  - Shearwall schedules (or show information on details i.e. A35, anchorage, shearwall sheathing and nailing)
  - Basic shear transfer details from horizontal to vertical diaphragms
  - Non-standard details (i.e. steel and masonry)
  - Connections

## Calculations

- **Gravity Design**
  - Footings
  - Foundation wall reinforcement
  - Columns
  - Beams, headers and joists
  - Drift, impact, eave and unbalanced snow loading
  - Exterior stud walls if  $h > 10'$  or heavily loaded
  
- **Lateral Design**
  - Determination of redundancy  $\rho$
  - Seismic base shear calculations
  - Wind base shear calculation
  - Shearwall design based on controlling lateral force case
  - Collector and diaphragm design
  - Hold-down design at foundation and intermediate floor lines
  - Shear transfer design between horizontal and vertical diaphragms
  - Shear transfer design to foundation system
  - Provide design and input criteria along with key plans as needed for computer analysis along with the appropriate output