

JOHN IRVING / PE, SE, Senior Structural Designer

Education

Bachelor of Civil Engineering
University of San Carlos,
Guatemala

Master of Science in Civil Engineering
University of Tennessee

Registration

Registered Professional
TN, VA, NC + AL

John Irving has diverse experience in structural design, analysis, and consulting throughout Tennessee and the Southeast region. He has led the design and analysis of single and multi-story structures including commercial, industrial, governmental, institutional, and residential buildings. He is competent in designing with various building materials such as structural steel, cold-formed steel, wood, masonry, concrete, aluminum, and heavy timber. Mr. Irving possesses additional experience in the analysis, assessment, and investigation of existing structures, as well as experience with structural renovations, rehabilitation, and repairs. He is also a member of the Tennessee Structural Engineers Association (TNSEA) and currently serves as the East Region Director at Large.

RELEVANT EXPERIENCE

Teledyne Brown Engineering

Confidential Project

Oak Ridge, Tennessee

Conducted System design to provide cooling for a variable –flow, primary/secondary closed-looped system for optimal temperature control within a 20 degree band. Also performed calculations and equipment specification associated with the facility cooling system.

Teledyne Brown Engineering

Confidential Project

Oak Ridge, Tennessee

Conducted energy usage analysis for new service for installation of developmental process equipment. Completed distribution system design, cable sizing and cable routing. Obtained customer review and approval and supported installation bid package by providing stamped drawings. Coordinated with local utility for transformer sizing and completed as built drawing following installation.

Scapa

Knoxville, Tennessee

Designing cleanroom and equipment mezzanine foundations as well as elevated supports for electrical transformers and equipment.

Kawasaki

Morristown, Tennessee

Foundations for the new crane system inside an existing metal building and the design of cooling tower support frame and foundations.

Your Self Storage

Knoxville, Tennessee

A new 101,000 SF three-story plus basement storage building.

Direct Mail Services

Knoxville, Tennessee

A 16,000 square-foot, pre-engineered metal building addition

AMD Renovations

Knoxville, Tennessee

New two-story-tall steel structure for specialty equipment and a new structural steel connector that will tie-in two existing buildings

TVEC Knoxville Surgery Center

Knoxville, Tennessee

A new 18,000 SF, one-story steel structure medical office building