LANE A. FELDEISEN, M.S., E.I.

EDUCATION:

B.S. Civil Engineering, University of Vermont, Burlington, VT, May 2021
M.S. Civil Engineering (Structural), University of Vermont, Burlington, VT, May 2022

REGISTRATION:

Mr. Feldeisen is a registered Engineering Intern in Colorado
NCEES Record Holder #22-218-93

EXPERIENCE:

Project Engineer, Knott Laboratory, LLC, Centennial, Colorado, February 2024 – Present
Design Engineer, Fortis Structural, LLC, Greenwood Village, Colorado, June 2022 – February 2024
Project Engineer, Courtland Construction Corp., Milton, VT, June 2019 – September 2021 (Summers)

FORENSIC & RECONSTRUCTION ENGINEERING:

Mr. Feldeisen has investigated cases involving residential and commercial property damage caused by fire, moisture intrusion, hail, wind, structural failures, vehicle impacts, and various construction defect cases throughout Colorado. At Knott Laboratory, he conducts structural evaluations and failure analyses of residential and commercial structures while utilizing both destructive and non-destructive testing methods. Mr. Feldeisen has designed repairs for a variety of residential and commercial structures following these investigations. His designs incorporate various construction materials such as masonry, wood, reinforced concrete, structural steel and other building materials. Additionally, these repairs have included detailing of building envelope and waterproofing components of structures. His experience with residential and commercial repairs includes designs for both gravity and lateral structural elements.

ENGINEERING DESIGN AND CONSTRUCTION:

Mr. Feldeisen has designed and analyzed a variety of multi-family and single-family projects throughout Colorado with various loading conditions and code requirements. He has performed calculations and utilized various finite element analysis (FEA) modeling programs to aid the design of reinforced concrete, structural steel, and wood structures as well as infinity structural systems as tall as 22-stories. Mr. Feldeisen developed full sets of construction documents including plans, details, and design criteria specifications in compliance with local, residential, and international building codes. He has collaborated with clients, architects, and contractors while also providing on-site construction administration. Furthermore, he has experience with hands-on construction and was responsible for processing materials and quantities, composing payment requisitions, and operating GPS equipment including GNSS receivers, total stations, and prisms. He performed takeoffs for developing bids and was also responsible for various labor induced tasks as well as the operation of a wide variety of light and heavy equipment.