

ZACHARY R. HENRICHS, M.S., P.E., DFE

EDUCATION:

M.S. Civil Engineering (Geotechnical); University of Wyoming, Laramie, Wyoming – May 2015
B.S. Civil Engineering; University of Wyoming, Laramie, Wyoming – May 2013

REGISTRATION & CERTIFICATION:

Licensed Professional Engineer (P.E.): Arizona, Colorado, Georgia, Nevada, Texas, and Wyoming
Board Certified Diplomate of Forensic Engineering (DFE): National Academy of Forensic Engineers
National Council of Examiners for Engineering and Surveying (NCEES) Record:
– Model Law Engineer (MLE) – International Registry for Professional Engineers (IRPE)



EXPERIENCE:

Director of Civil Engineering; Knott Laboratory, LLC., Centennial, Colorado – January 2025 to Present
Civil Engineering Manager; Knott Laboratory, LLC., Centennial, Colorado – October 2021 to December 2024
Project Engineer; Baseline Engineering Corporation, Steamboat Springs, Colorado – March 2016 to September 2021
Staff Engineer; Coffey Engineering & Surveying, LLC., Laramie, Wyoming – May 2013 to February 2016
Engineering Technician; Coffey Engineering & Surveying, LLC., Laramie, Wyoming – Summers 2011, 2012
Engineering Intern; Kidd Engineering & Construction Management, Inc., Pueblo, Colorado – Summers 2009, 2010

FORENSIC ENGINEERING:

Mr. Henrichs has conducted numerous forensic engineering investigations including civil cases involving personal injury and/or property damage. His investigation and analyses experience has included premises liability, construction defects, inadequate engineering design, construction site safety, infrastructure serviceability, and others. Mr. Henrichs has served as an expert witness and given testimony for both plaintiff and defense counsels in the areas of civil engineering. Clients have included Attorneys, Building Owners, Property Managers, Insurance Companies, Developers, and General Contractors. His findings focus on evaluating damage, determination of cause, and rendering professional opinions. Mr. Henrichs has overseen various cases relating to soil stability, pavement permanence, pedestrian and vehicular traffic safety, slope failure, frost-heave, unsuitable subgrade, inadequate grading and drainage, moisture intrusion, flooding events, utility damage, underground pipe failures, improper or inadequate maintenance, slips-and-falls (including those concerning snow and ice accumulation or mitigation), trips-and-falls, workplace safety incidents, structural foundation failures, retaining wall failures (concrete, boulder, block, etc.), ADA compliance, and more. His requisite knowledge of materials testing, site design, and construction methods enables him to identify, evaluate, and solve a wide variety of civil problems and complex failures. Mr. Henrichs has also designed repairs and provided recommendations for reconstruction to correct such deficiencies and failures.

CIVIL ENGINEERING DESIGN:

Mr. Henrichs has over a decade of experience in civil site design for new construction and reconstruction, including residential, commercial, industrial, and municipal projects. His background includes site layout, grading and drainage, utility infrastructure, erosion control, and roadway improvements. Mr. Henrichs is skilled in preparing professional engineering documents such as drainage reports, civil construction plans, cost estimates, project manuals, and specifications. He has successfully collaborated with private clients, municipalities, and State DOTs. Mr. Henrichs has been the engineer-of-record for a vast array of civil engineering projects including parking lots, roadway and intersection improvements, building site layout and grading, park and trail systems, underground utilities, storm sewer and storm water quality systems, municipal water distribution systems, sanitary sewer systems, and evaporation ponds. Mr. Henrichs understands jurisdictional code requirements and engineering standards used in civil design and construction. He also has an extensive background in material research and has developed standard testing methods to characterize subgrade soils.

CONSTRUCTION ADMINISTRATION:

Mr. Henrichs has a comprehensive range of construction administration experience for various civil projects. He has conducted quality control and quality assurance inspections (QC/QA) for projects including roadways, structural buildings, site infrastructure, underground utilities, water treatment plants, and landfills. His administrative duties included leading pre-construction meetings, reviewing material submittals, responding to requests for information (RFI's), preparing change orders (CO's), preparing inspection reports, reviewing contractual pay applications, and preparing final punch-lists. Mr. Henrichs has served as the engineer-of-record for several completed construction projects and was responsible for ensuring construction materials and methods met the approved construction documents.

PROFESSIONAL AFFILIATIONS:

Mr. Henrichs is an active member of the following technical and professional societies:
– American Society of Civil Engineers (ASCE) – Wyoming Engineering and Surveying Society (WESS)
– National Society of Professional Engineers (NSPE) – National Academy of Forensic Engineers (NAFE)