

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

EDUCATION:

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



REGISTRATION:

Licensed Professional Engineer (P.E.) in States: Arizona, Colorado, Nevada, Texas, and Wyoming
National Council of Examiners for Engineering and Surveying (NCEES) Record:
– Model Law Engineer (MLE) – International Registry for Professional Engineers (IRPE)

EXPERIENCE:

Civil Engineering Manager, Knott Laboratory, LLC., Centennial, Colorado – October 2021 to Present
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 investigated numerous civil site cases involving personal injury and property damage by slope failure, frost-heave, unstable or unsuitable subgrade, inadequate drainage, underground utility damage, underground pipe system failure, improper or inadequate maintenance, moisture intrusion, construction defects, and/or inadequate engineering design. His findings focus on evaluating damage and rendering professional opinions regarding cause, premise liability, construction safety, soil stability, pavement permanence, pedestrian and vehicular traffic safety, utility function, and infrastructure serviceability, as well as design repairs for reconstruction to correct deficiencies. Mr. Henrichs has served as an expert for both plaintiff and defense counsels in the areas of civil engineering. His requisite knowledge of materials testing, site design, and understanding of construction methods enable him to identify, analyze, and solve a wide variety of civil problems and complex 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, underground utility infrastructure, and roadway improvements. He has successfully worked with private clients, various municipalities, and State Departments of Transportation to complete designs and prepare permit, bid, and construction plans for many diverse projects. Mr. Henrichs is skilled in preparing professional civil engineering documents such as drainage reports, civil construction plans, cost estimates, bid schedules, project manuals, specifications, and special provisions. Mr. Henrichs has been the engineer-of-record for a vast array of civil engineering projects including large scale parking lots, roadway and intersection improvements, building site layout and grading, park and trail systems, underground communications and electrical conduit routing, storm sewer and storm water quality systems, municipal water distribution systems, and sanitary sewer systems. 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 developed standard test methods to characterize subgrade soil in pavements.

CONSTRUCTION ADMINISTRATION:

Mr. Henrichs has a comprehensive range of construction administration experience for various civil construction projects. He has conducted quality control and quality assurance inspections (QC/QA) for several projects, including roadways, structural buildings, site construction, underground utilities, water treatment plants, and landfill construction. His administrative duties have included services such as leading pre-construction meetings, reviewing material submittals, providing formal requests for information (RFI's), preparing formal change orders (CO's), organizing coordination with subconsultants and clients, preparing inspection reports, conducting construction oversight, reviewing contractual pay applications, and preparing final punch-lists. Mr. Henrichs has served as the engineer-of-record for numerous completed construction projects and was responsible for ensuring that construction materials, means, and methods met that of the stamped and 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)