



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

EDUCATION:

M.S. Civil Engineering May 2015
- Geotechnical
UNIVERSITY OF WYOMING

B.S. Civil Engineering May 2013
UNIVERSITY OF WYOMING

REGISTRATION:

Professional Engineer (P.E.):

- Arizona Nov 2021
- Colorado July 2018
- Georgia Aug 2024
- Nevada Aug 2022
- Texas Jan 2022
- Wyoming Oct 2017

CERTIFICATION:

NAFE Board Certified, Diplomate of Forensic Engineering (DFE): Dec 2024

National Council of Examiners for Engineering and Surveying (NCEES):

- Model Law Engineer (MLE)
- International Registry for Professional Engineers (IRPE)

WYDOT Materials Technician Certification Program: 2015 - 2021

- Testing of Asphalt, Concrete, Aggregates and Soils

AFFILIATION:

American Society of Civil Engineers (ASCE); *Member* Oct 2022

National Academy of Forensic Engineers (NAFE); *Member* Nov 2024

National Society of Professional Engineers (NSPE); *Member* Jan 2024

Wyoming Engineering and Surveying Society (WESS); *Member* Feb 2014



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EMPLOYMENT:

Principal Engineer; Coltex Consulting, LLC	Feb 2026 to Present
Director of Civil Engineering; Knott Laboratory, LLC	Jan 2025 to Jan 2026
Civil Engineering Manager; Knott Laboratory, LLC	Oct 2021 to Dec 2024
Project Engineer; Baseline Engineering Corporation	Mar 2016 to Sep 2021
Staff Engineer; Coffey Engineering & Surveying, LLC	May 2013 to Feb 2016
Engineering Tech; Coffey Engineering & Surveying, LLC	Summers 2011, 2012
Engineering Intern; Kidd Engineering & C.M., Inc	Summers 2009, 2010
Welder; Mesa Fabrication Shop, Inc.	Summers 2007, 2008
Laborer; Rocky Ford High Line Canal Co.	Summers 2005, 2006

EXPERIENCE:

Forensic Engineering:

Mr. Henrichs has conducted numerous forensic engineering investigations, including civil cases involving personal injury and/or property damage. His investigative and analytical experience in litigation support has encompassed claims arising from premises liability, construction defects, inadequate engineering design, construction site safety, infrastructure serviceability, among others. Mr. Henrichs has served as an expert witness and provided testimony for both plaintiff and defense counsels in matters of civil and geotechnical engineering. Clients have included Attorneys, Insurance Companies, Building Owners, Property Managers, Developers, and General Contractors. Findings focus on evaluating damage, determination of cause, and rendering professional opinions. Mr. Henrichs has overseen many investigations in a forensic capacity relating to pavement permanence, pedestrian and vehicular traffic safety, soil stability, slope failure, sinkholes, frost-heave, unsuitable subgrade, inadequate grading and drainage, moisture intrusion, wind and hail, flooding events, stormwater control, utilities, directional drilling/boring, underground pipe failures, improper or inadequate maintenance, slip-and-falls (including cases involving snow and ice accumulation or mitigation), trip-and-falls, workplace safety incidents, structural foundation failures, retaining wall collapse (timber, 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 problems and complex failures. Mr. Henrichs has also designed repairs and provided reconstruction recommendations to address 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 design background includes site layout, grading and drainage, utility infrastructure, erosion control, roadway improvements, and on-site wastewater treatment facilities. Mr. Henrichs is skilled in preparing professional engineering documents such as drainage reports, civil construction plans, standard details, cost estimates, project manuals and specifications. He has collaborated with private clients, municipalities, and State DOTs. Mr. Henrichs has served as the engineer-of-record for a vast array of civil engineering projects. Expertise includes, but is not limited to, parking lots, roadway and intersection improvements, building site layout and grading, park and trail systems, underground utilities, storm sewer and storm water quality facilities, municipal water distribution systems, sanitary sewer systems, and evaporation ponds. Mr. Henrichs understands jurisdictional code requirements and industry standards used in civil design for construction. His experience incorporated construction observations and materials testing to ensure that the construction materials and methods met the approved construction documents.



Construction Administration and Geotechnical Testing:

Mr. Henrichs has a broad range of construction administration experience. He has conducted hundreds of quality control and quality assurance inspections (QC/QA) for projects including roadways, buildings, site infrastructure, underground utilities, water treatment plants, and landfills. Administrative duties comprised of 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 collected field samples and conducted laboratory and field testing to determine properties and evaluate performance of soils, aggregates, asphalt, and concrete. He has an extensive background in material research and developed standard testing methods to characterize and predict future performance of subgrade soils.

PUBLICATIONS:

- "Measurement of the Resilient Modulus of Subgrade Material for Mechanistic-Empirical Pavement Design Guide in Wyoming". University of Wyoming. May 15, 2015.
- "There Might Be Some Cracks in D-FW's Building Boom – Literally". Candy's Dirt. Candy's Media Productions. August 12, 2025. <https://candysdirt.com/2025/08/12/there-might-be-some-cracks-in-d-fws-building-boom-literally/>.
- "Texas is Sinking: What Contractors Must Know About Soil Subsidence, Slopes, and Erosion". Construction Digest. December 2025. <https://constructiondigest.news/CD/article/EE9D499C-texas-is-sinking-what-contractors-must-know-about-soil-subsidence-slopes-and-erosion>

PRESENTATIONS:

- "CE – SURVEYING. From the Field to CAD". Presented 1-Hr Continuing Education Course to Engineers at Knott Laboratory, LLC. Virtual. May 6, 2022.
- "When an Engineer is Needed". Presented 1-Hr Continuing Education Course to Property Managers at RealManage. In-Person, Plano, Texas. December 16, 2025.

AWARDS:

- Engineering News Record (ENR), Mountain States Best Projects - Award of Merit - Small Project (Under \$10 Million) – Mt. Werner/Ski Time Square Roundabout, Steamboat Springs, Colorado. Accepted Award on behalf of Baseline Engineering Corporation. Denver, Colorado. October 2019.

SELECT PROJECT EXEMPLARS:

- Roxborough Village Commons Access (2021). Littleton, Colorado. Post-litigation design of a new sidewalk and retaining wall.
- Confidential Client (2021-2022). Rifle, Colorado. Retained as the civil engineering expert to investigate the cause of an irrigation canal flood event and slope failure that resulted in reported residential property damages as part of a litigation matter.
- Confidential Client (2022). Aurora, Colorado. Retained as the civil engineering expert to investigate a trip and fall incident involving ADA accessibility for a commercial building as part of a litigation matter.
- Metro Business Park (2022-2023). Phoenix, Arizona. Developed reconstruction plans for driveway entrances and road frontage improvements at a commercial property. Analyzed grading and drainage conditions and designed utility relocations for vertical alignment changes. Stamped plans as engineer-of-record for redevelopment.
- Confidential Client (2023). Denver, Colorado. Retained as the civil engineering expert to investigate an electric scooter crash caused by an alleged pothole and lack of roadway maintenance as part of a litigation matter.
- Brownstones at Town Center Community (2023-2024). Highlands Ranch, Colorado. Evaluated the drainage, sidewalks, alleys, paving and retaining walls for a multi-family community. Provided repair recommendations and construction administration.
- Confidential Client (2024) Fort Worth, Texas. Retained as the civil engineering expert to investigate alleged construction defects involving repairs to existing monuments, retaining walls, and screened perimeter walls as part of a litigation matter.

EXAMINATION:

- **Professional Engineering Exam – Civil (Geotechnical);** NCEES; Casper, Wyoming April 2016
- **Fundamentals of Engineering Exam;** NCEES; Laramie, Wyoming October 2012