



## **Appendix A**

### **Curriculum Vitae**

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## **SAMUEL R. HENNING, B.Sc., P.E.**

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### **EDUCATION:**

B.Sc. Civil Engineering, University of Colorado, Boulder, CO, 2012

### **EXPERIENCE:**

Knott Laboratory, LLC, Centennial, Colorado

- Project Engineer, March 2017 to March 2020
- Project Manager, March 2020 to February 2021
- Engineering Manager, February 2021 to November 2024
- Director of Engineering, November 2024 to Present

Production Enhancement Engineer, Halliburton, Colorado & Alaska, September 2012 through March 2017

Project Engineer, Shaw Construction, May 2012 through September 2012

Engineer Intern, City of Lafayette, Summer of 2011

Engineer Intern, City of Centennial, Summer-Winter 2010



### **FORENSIC ENGINEERING:**

Mr. Henning has over eight years of experience in onsite forensic investigations, often involving damage such as construction defects, differential foundation movement, structural failures, collapses, fires, floods, hail, moisture intrusion, as well as various other issues. Mr. Henning is well versed in preparing comprehensive analyses and reports of his findings. Mr. Henning has been involved with a multitude of construction defect investigations for both plaintiffs and defendants. Mr. Henning has extensive experience working for homeowners, contractors, attorneys, and insurance companies. Mr. Henning is routinely involved in the structural design of remodels, additions, as well as new construction.

Mr. Henning oversees the Insurance Division within Knott and has worked on hundreds of commercial and residential insurance investigations. Mr. Henning also oversees Knott's Western Colorado and Arizona offices and manages Knott's Foundation Pro Engineering division which specializes in the investigation, design, and implementation of repairs of failed and damaged foundations. Mr. Henning has evaluated everything from residential foundations to commercial foundations. Mr. Henning has diagnosed the soil characteristic and performance factors of both expansive and collapsible soil that have induced foundation movement and damage.

Mr. Henning has also been involved in multiple lab-tests of truss capacities, parapet wall capacities, and other job-specific testing requirements. This work involved designing and building the testing apparatus as well as performing the actual tests to the materials. After the testing, Mr. Henning has analyzed the results and provided summary reports of the findings.

Additionally, Mr. Henning's work in the oil and gas sector has given him a unique perspective concerning plumbing, piping, heating/cooling systems, thermodynamics, and hydromechanics. Mr. Henning has conducted multiple analysis concerning freeze-loss type cases in which the interior temperature of a particular structure is modeled to determine the internal temperature change over time – this helps determine the circumstances surrounding pipe-bursts, mechanical equipment failures, etc.

### **ENGINEERING AND DESIGN:**

Mr. Henning has experience designing foundation, framing, and roof framing plans for residential and light-commercial structures. Additionally, Mr. Henning has documented and analyzed many properties by use of laser scanning equipment to create and analyze point cloud data. Mr. Henning has sized remedial foundation installations such as micropiles, push piers, and helical piers. Additionally, Mr. Henning has designed micropile foundations for new construction as well as traditional foundation designs. Mr. Henning has been involved in designing light-gauge and steel buildings for residential applications.

Mr. Henning has also designed multiple remedial repair plans with structures exhibiting fire, flood, wind, and snow damage. These types of designs require additional analysis and consideration of the most practical and economical method to fix a damaged structure. Similarly, he has been involved on several projects including damage to roofing and exterior cladding materials such as hardcoat and EIFS stucco siding.

### **MEMBERSHIPS AND PROFESSIONAL AFFILIATIONS:**

Mr. Henning is a member of the Foundation Performance Association (FPA)

## **SAMUEL R. HENNING, B.Sc., P.E.**

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### **LICENSES AND CERTIFICATIONS:**

Licensed Professional Civil Engineer, Colorado #57294

Licensed Professional Civil Engineer, Texas #137466

Licensed Professional Civil Engineer, Utah #13618458-2202

## **SAMUEL R. HENNING, B.Sc., P.E.**

### **PUBLICATIONS AND PRESENTATIONS:**

#### **PUBLICATIONS**

1. Stanley Stoll, Samuel Henning, Aaron Bagley, Kyle Wieghaus, PhD. "Foundation Damage Assessments and Structural Repairs" Forensic Engineering 7<sup>th</sup> Congress 2022.

#### **NOTABLE FORENSIC BUILDING PROJECTS SUMMARY:**

<b>Date</b>	<b>Project</b>	<b>Location</b>	<b>Client</b>
May 2024	Explosion Structural Damage Investigation and Repair Requirements	Durango, CO	Haily Hart PLLC
April 2025	Valley Plaza Shopping Center Remodel	Grand Junction, CO	CO Bray Construction
April 2025	Residential Construction Defect Investigation Regarding ICF Construction	Buena Vista, CO	Devault Law
March 2025	Multiple Additions at Centro Charter School	Grand Junction, CO	Lannie & Rund
March 2025	Radiant Heat and Fireplace Installation Investigation	Aspen, CO	Griffiths Law LLC
February 2025	Facility Condition Assessment, Veteran's Community Center	Palisade, CO	Town of Palisade
January 2025	Metal Shop Building Investigation	Mesa, CO	Coleman Quigley & Foster, LLC
January 2025	Structural Remodel at Telluride High School and Elementary School	Telluride, CO	Chamberlin Architects
May 2024	Telluride High School, Forensic Condition Assessment and Repairs	Telluride, CO	Telluride School District
March 2024	Fire Damage Structural Investigation and Repair Plans for Municipal Building	Glenwood Springs, CO	CIRSA – City of Glenwood Springs
January 2024	Freeze Loss Investigation at Multi-Family Unit. Fire Suppression System.	New Castle, CO	Poynter Law, LLC
January 2024	Structural Metal Stairway Investigation, Report and Hearing Testimony	Copper Mountain, CO	Stuart D. Morse & Associates, LLC
November 2023	Commercial Radon System Investigation and Compliance Report	Grand Junction, CO	Rocky Mounts
July 2023	9-story Residential Tower Including Parking Structure. Facility Condition Assessment and Repairs	Grand Junction, CO	Horizon Towers HOA
April 2023	Residential Foundation Movement Assessment Including Tiered Retaining Wall	Delta, CO	Tueller, Gibbs, Dye
February 2023	Police Station Vehicle Impact Investigation and Repair Plans	Grand Junction, CO	Grand Junction Police Department
January 2023	Early 1900 Stone and Masonry Building – Structural Foundation Design for Remodel	Montrose, CO	Rathbone Hotels

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Date	Project	Location	Client
May 2024	Explosion Structural Damage Investigation and Repair Requirements	Durango, CO	Haily Hart PLLC
August 2023	Early 1900 State Armory – Facility Condition Assessment, Foundation Repair, Structural Remodel	Delta, CO	Delta Police Department
February 2022	Early 1900 Stone and Masonry Church - Facility Condition Assessment	Montrose, CO	Montrose Methodist Church
September 2021	Foundation Assessment and Global Site Soil Stability	Rifle, CO	Rider & Quesenberry LLC
April 2021	Grand Junction High School, Facility Condition Assessment and subsequent Structural Repairs.	Grand Junction, CO	Colorado School District 51
February 2020	Grand Junction Regional Airport, Facilities Condition Assessment and subsequent Structural and Foundation Repairs	Grand Junction, CO	Grand Junction Regional Airport
February 2020	Post-litigation Foundation Damage Remediation – Single Family Residence	Grand Junction, CO	L. Knight
January 2020	Residential Design and Construction Assessment - Construction Defects	Grand Junction, CO	Griffiths Law PC
September 2019	3rd Story railing collapse and Fall	Colorado Springs, CO	Heuser and Heuser, LLP
August 2019	Snowmass Village Rec Center Flood and Damage Assessment	Snowmass Village, CO	CIRSA
June 2019	Parapet Wall Structural Load Testing	Aspen, CO	Hanson Construction, Inc.
June 2019	4 plex multi-family Complex Fire Repairs	Fruita, CO	Monument HOA
May 2019	Residential Foundation Assessment - Construction Defects	Grand Junction, CO	Griffiths Law PC
March 2019	Residential Foundation Assessment - Post Real Estate Sale Disclosure	Grand Junction, CO	Hoskin, Farina, & Kampf, P.C.
December 2018	Residential Foundation Assessment - Construction Defects	Grand Junction, CO	Hoskin, Farina, & Kampf, P.C.
October 2018	Hurricane Damage Assessment - Wood Pellet Manufacturing Plant	Laurinburg, NC	CJW Insurance
October 2018	Hurricane Damage Assessment - 28 Building Multi-family Complex	Wilmington, NC	CJW Insurance
June 2018	Hail Damage Assessment SW Plains Dairy	Syracuse, KS	Brown Pruitt Wambsganss Ferrill & Dean, PC
June 2018	9 Multi-story Bldg. Post Construction Defect Remediation	Boulder, CO	The Village at Uptown Owners Association
March 2018	Foundation and Wall Collapse Evaluation - 1775 Sherman Street	Denver, CO	Boyle/Apelman, PC

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May 2024	Explosion Structural Damage Investigation and Repair Requirements	Durango, CO	Haily Hart PLLC
March 2017	Five Building Early-Development Cracking and Foundation Movement Assessment -	Grand Junction, CO	Shaw Construction
October 2016	Post-Litigation Foundation Repairs - 2661 Lookout Lane	Grand Junction, CO	BluSky Restoration
September 2016	Industry facility Roof Collapse, Truss Load Testing and Repairs - 559 Sandhill lane	Grand Junction, CO	GJ Textiles