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## Curriculum Vitae of Rachel Ann Schmidt, M.S., P.E., CDT

### Project Engineer

### EDUCATION

- Bachelors of Science in Civil Engineering with emphasis in Structural Engineering  
Colorado State University, Fort Collins, Colorado (2006)
- Masters of Science in Civil Engineering with emphasis in Structural Engineering  
Colorado State University, Fort Collins, Colorado (2008)

### REGISTRATION

- Registered Professional Engineer - State of Arizona, No. 60083
- Registered Professional Engineer - State of California, No. 78681
- Registered Professional Engineer - State of Colorado, No. 45830
- Registered Professional Engineer - State of Missouri, No. 2020013084
- Registered Professional Engineer - State of Nebraska, No. E-18037
- Registered Professional Engineer - State of New Mexico, No. 21766
- Registered Professional Engineer - State of Texas, No. 113797
- Registered Professional Engineer - State of Wyoming, No. 14794

### EMPLOYMENT SYNOPSIS

**Higgins & Associates, Inc., Littleton, Colorado**

***2020 to Present***

***Project Engineer***

**Rivet Engineering Group, LLC, Parker, Colorado**

***2019 to 2020***

***Senior Envestigative Engineer***

**Pie Consulting & Engineering, Arvada, Colorado**

***2016 to 2019***

***Senior Project Manager***

**ProNet Group, Inc., Golden, Colorado****2013 to 2016***Staff Engineer***Western Engineering & Research, Denver, Colorado****2009 to 2016***Staff Engineer***Knotts Laboratories, Inc., Centennial, Colorado****2008 to 2009***Staff Engineer*

## **FORENSIC ENGINEERING EXPERIENCE**

Performed investigations of residential and commercial structures of varying size including damage induced by natural phenomenon such as seismic activity, wildfires, hail, wind, tornados, snow/freeze, and soil movement as well as man-made issues caused by design errors, construction defects, fires and explosions, poor site drainage, vehicle impacts, and fraudulent activities. Investigated building envelope failures and moisture intrusion issues related to roofing, flashing, water resistive barriers, stucco, siding, windows/doors, and ventilation deficiencies. Scope of work also included site-wide grading and drainage concerns as they relate to construction defect litigation and has provided site-wide repair recommendations to address grading and drainage. Approaching investigations involving a full analysis of all available information, full consideration of conditions and circumstances, and research of the involved components or products.

## **STRUCTURAL ENGINEERING EXPERIENCE**

Designed repairs to numerous residential and commercial structures of varying size, typically due to natural phenomenon and man-made issues. Experienced in the full scope of repair design including the assessment, determination of applicable building codes and ordinances, application of the International Existing Building Code, and the design of the repair. Experienced in structural steel, masonry, concrete, timber, and light-gage materials. Accumulated valuable knowledge of building codes and standard practices. Experience working with contractors to provide emergency shoring and to adapt repairs to existing conditions.

## **PRIMARY TECHNICAL CONFERENCES AND SEMINARS**

1. “Construction Documents, Value Engineering, Shop Drawings, Submittal Reviews, and Construction Phase Risks” Attendee - Donovan Hatem LLP, Arvada, CO, September 28, 2018
2. “Diaphragm Design with 2015 SDPWS” Attendee - Simpsons Strong-Tie, Arvada, CO, November 25, 2019
3. “2015 Special Design Provisions for Wind and Seismic” Attendee - American Wood Council, Arvada, CO, November 26, 2019
4. “2015 Significant Wood Design and Construction Changes to the 2018 IBC and NDS” Attendee - American Wood Council, Arvada, CO, November 26, 2019
5. “Evaluation of Recommended Allowable Design Properties for Wood in Existing Structures” Attendee - American Wood Council, Arvada, CO, December 30, 2019
6. “Advanced Occupancies” Attendee - Colorado Chapter International Code Council Educational Institute, Loveland, CO, March 3, 2020
7. “Advanced Means of Egress” Attendee - Colorado Chapter International Code Council Educational Institute, Loveland, CO, March 4, 2020

**TO REQUEST A LIST OF RELEVANT EXPERIENCE PLEASE CONTACT OUR OFFICE.**