

### Tracy M. Perry | Senior Associate and Unit Manager



#### EDUCATION

- Colorado School of Mines
  - Bachelor of Science, Civil Engineering, 2001
  - Master of Science, Civil Engineering, 2007

#### PRACTICE AREAS

- Condition Assessment
- Nondestructive Evaluation
- Structural Analysis
- Load Testing
- Capital Reserve Analysis

#### REGISTRATIONS

- Professional Engineer in CO

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute

#### PUBLICATIONS

- "Simple Equations for Tendon Failures," ACI Structural Journal, Spring 2012

#### CONTACT

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#### EXPERIENCE

Tracy Perry has participated in the structural investigation and rehabilitation of numerous parking garage and building structures. Many of these projects involving concrete, steel, wood, and masonry have included in-depth analysis, repair design, production of construction documents, and construction observation services.

Her focus lies in the area of existing structures, with an emphasis on the evaluation and repair of concrete structures. She specializes in applying nondestructive evaluation (NDE) techniques, specifically impact-echo, ground penetrating radar, and ultrasonic pulse velocity, to evaluate concrete and masonry structures. Ms. Perry has investigated concrete-related problems in numerous structures, including prestressed and post-tensioned structures, bridges, parking garages, foundations, and pavements. She has also performed capital reserve studies for homeowners associations to help them develop their long-range planning and funding of major repair expenditures.

#### REPRESENTATIVE PROJECTS

##### Condition Assessment

- Christie Lodge Parking Garage - Avon, CO: Condition assessment and structure rehabilitation
- Republic Plaza Parking Garage - Denver, CO: Condition assessment, repair plans, and construction observation services
- Regent Parking Garage - Boulder, CO: Condition assessment, repair plans, and construction observation services
- Twin Bridges on US-34 near Estes Park - CO: Evaluation and service life analysis of concrete abutments
- US-285 Bridge Decks over Wadsworth Boulevard - Lakewood, CO: Assessment and repair design for precast concrete members
- Ray Nixon Power Plant - Fountain, CO: Brine pump room evaluation, repair plans, and construction observation services

##### Nondestructive Evaluation

- Manhattan West - Las Vegas, NV: Application of various NDE techniques to identify areas of poorly consolidated concrete in shear walls
- Federal Reserve Bank Parking Structure - Kansas City, MO: Identification of cover over steel reinforcement and concrete slab thicknesses
- National Truckport - Denton, TX: Evaluation of pavement thickness and voiding below pavement

##### Structural Analysis

- Belleview Tower Parking Garage - Englewood, CO: Structural investigation of distressed parking deck and lateral load analysis
- Powell High School - Powell, WY: Seismic analysis for code upgrade
- Pikes Peak Summit House - Colorado Springs, CO: Foundation monitoring and repair design
- Various Schools - CO: Analysis, structural repair design, and construction observation services

##### Load Testing

- Byers-Denver School for the Arts - Denver CO: Structural analysis and load testing
- Metropolitan Lofts - Denver, Colorado: Load testing of rooftop personal fall arrest system

##### Capital Reserve Analysis

- Northwoods Condominiums - Vail, CO
- Palmilla Master Association - Cabo San Lucas, Mexico
- Villas Del Mar - Cabo San Lucas, Mexico