

### Andrew Jenkins | Associate III



#### EDUCATION

- Colorado School of Mines
  - Bachelor of Science, Civil Engineering, 2010

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Repair and Rehabilitation
- Concrete Structures
- Construction Materials
- Instrumentation/Monitoring/Load Testing
- Failure Analysis

#### REGISTRATIONS

- NHI Course 130056 - Safety Inspection of In-Service Bridges for Professional Engineers
- Professional Engineer in CO and KS

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers

#### CONTACT

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#### EXPERIENCE

Andrew Jenkins has participated in and led in-depth investigations and rehabilitations of multiple concrete structures, including cast-in-place and precast buildings and bridges. These assessments have included various types of evaluations utilizing both destructive and nondestructive testing (NDT) and observation services during construction. Mr. Jenkins has significant experience with concrete placements and cast-in-place concrete and shotcrete over preinstalled waterproofing. He also provides training for best practices related to bridge girder erection plans and procedures.

Prior to joining WJE, Mr. Jenkins worked for the Kansas Department of Transportation, where he was involved with concrete materials research and provided technical field services. His projects there included evaluation of new concrete materials and test methods, condition assessments and failure investigations of pavements, bridges, and other transportation facilities, and concrete material and/or mix design services during construction, including guidance related to concrete material properties and proportions, specifications and/or materials testing.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- Interstate Bridges - CO: Evaluation of reinforcing clear cover via NDT, construction defects, design review, and dispute services
- Interstate Bridges - NE: Evaluation of early-age asphalt overlay deterioration and waterproofing membrane condition
- Pedestrian Bridge - CO: NDT and coring to facilitate evaluation of and repair recommendations for early-age cracking in concrete bridge deck
- Willow Creek Dam - Harrison, MT: Condition assessment, material evaluation, and repair recommendations for concrete spillway
- Persigo Wastewater Treatment Plant - Grand Junction, CO: Evaluation, repair design, and repair observations of multiple water treatment structures
- U.S. 85 - Denver, CO: Construction engineering of debris containment and temporary shoring and structure stability

#### Repair and Rehabilitation

- Empower Field at Mile High - Denver, CO: Evaluation and creation of repair documents for distressed concrete slab-on-ground stairs
- 1801 California - Denver, CO: Evaluation of and repair design for severely settled slab-on-ground sidewalk
- Folsom Field - Boulder, CO: Evaluation, design, and repair observations of expansion joints in structural steel stadium seating

#### Concrete Structures

- Denver, CO: Condition assessment of cast-in-place lightweight concrete stairs at multiple high-rise apartment buildings
- Jefferson County, CO: Condition assessment of parking structure and creation of repair documents for precast concrete structure
- Commons Park West - Denver, CO: Condition assessment, including NDT of reinforcing and concrete conditions; development of repair documents for post-tensioned concrete parking structure
- 1801 California - Denver, CO: Evaluation of and repair design for precast parking structure distress

#### Construction Materials

- Multiple Structures - Denver, CO: Investigation of grouted joints in precast concrete structures and repair observations
- South Lawrence Trafficway - Lawrence, KS: Evaluation and assessment of concrete drilled shaft material placement issues and postconstruction condition \*
- Internal Curing with Lightweight Aggregate - Topeka, KS: Evaluation of effects of using presaturated lightweight aggregate on concrete properties \*

#### Instrumentation/Monitoring/Load Testing

- 816 Acoma - Denver, CO: Load testing of roof davit bases and fall protection tie-back anchors
- Stadium Anchorages: Load testing of damaged structural foundation anchorages
- Concrete Pavements - Iola, KS: Instrumentation and strain analysis of cyclic and permanent deformations of concrete pavement and effects of internal curing on deformation \*

\* Indicates with previous firms