PERSONNEL QUALIFICATIONS

Matthew A. Frydman | Associate III

EDUCATION

- California Polytechnic State University
  - Bachelor of Science, Architectural Engineering, 2021
- Colorado School of Mines
  - Master of Science, Civil Engineering, 2023

PRACTICE AREAS

- Concrete Structures
- Bridges and Civil Infrastructure
- Structural Analysis
- Nondestructive Evaluation
- Failure/Damage Investigation
- Repair and Rehabilitation
- Coatings and Corrosion

REGISTRATIONS

- Professional Engineer in CO

PROFESSIONAL AFFILIATIONS

- Structural Engineering Association of Colorado
- Rocky Mountain American Concrete Institute

CONTACT

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EXPERIENCE

Since joining WJE in 2021, Matthew Frydman has participated in the investigation and rehabilitation of numerous concrete, steel, and wood structures. His projects frequently include in-depth analysis, repair and rehabilitation design, production of construction documents, and construction administration services.

Mr. Frydman's focus is existing structures, with an emphasis on concrete structures. He has participated in the evaluation of many cast-in-place, precast, prestressed, and post-tensioned concrete structures. His experience also includes a variety of destructive and nondestructive testing of these structures.

REPRESENTATIVE PROJECTS

Concrete Structures

- Neal S. Blaisdell Center Parking Structure - Honolulu, HI: Concrete distress investigation and repair recommendations
- Samsung Fab1 - Taylor, TX: Assessment of waffle slab coatings and cracking at precast beams and columns
- University of Denver Parking Structures - CO: Condition assessment, repair recommendations, repair design, and construction administration services
- Colorado State University - Fort Collins: Anchor sleeve load testing at lifeline attachment points

Bridges and Civil Infrastructure

- Hawaii Department of Transportation - Oahu: Routine and fracture critical inspections, scour assessments, and repair recommendations for various bridges
- Oklahoma Bridges - Oklahoma City: Specialized inspection of eighteen post-tensioned bridges and remedial grouting repair installation
- Fort Peck Dam Spillway Bridges - Fort Peck, MT: Condition assessment, sample collection, and repair recommendations
- Regional Transit District Rail Platform - CO: Investigation of concrete distress in rail platforms and walls at passenger rail stations

Structural Analysis

- Veolia Hazardous Waste Incineration Facility - Gum Springs, AR: Structural design peer review
- Ilikai Marina - Honolulu, HI: Structural analysis of concrete beam deterioration

Nondestructive Evaluation

- Rigolets Bridge - Slidell, LA: Ground penetrating radar (GPR) reinforcement cover assessment, corrosion evaluation using half-cell potential testing and electrical surface resistivity for service life modeling
- Concrete Podium Slab - Denver, CO: Evaluation of cold joint at newly poured concrete podium slab
- Broward County Public Schools - FL: Condition field assessments and development of district-wide assessment program

Failure/Damage Investigation

- 8030 West Maule Avenue - Las Vegas, NV: Fire damage assessment
- Wheaton 121 Balcony Investigation - Wheaton, IL: Investigation of failed steel balcony connections
- Adams County Public Schools - CO: Investigation of below-grade utilities and structural concrete slabs impacted by expansive soils
- Rockvue Apartments - Broomfield, CO: Investigation of structural impact of soil movement

Repair and Rehabilitation

- Cortez Recreational Center - Cortez, CO: Investigation and repair design of concrete staircase utilizing discrete embedded anodes
- Luxury Home - Aspen, CO: Repair design of distressed architectural concrete to match existing exposed concrete aesthetic
- Vail Medical Building Parking Garage - Vail, CO: Concrete and coating repair design and construction administration