PERSONNEL QUALIFICATIONS

# John Reins | Principal

## EDUCATION

- University of Notre Dame
  - Bachelor of Science, Civil Engineering, 1975
- University of Illinois
  - Master of Science, Structural Engineering, 1977

## PRACTICE AREAS

- Failure Investigation
- Repair and Rehabilitation Design
- Peer Review
- Load Testing
- Field Monitoring

## REGISTRATIONS

- Professional Engineer in CO

## PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- American Society of Civil Engineers
- Colorado Association of Geotechnical Engineers, past director
- Deep Foundations Institute
- Structural Engineers Association of Colorado, past president

## TECHNICAL COMMITTEES

- American Society of Civil Engineers - Standard of Care

## CONTACT

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## EXPERIENCE

John Reins has been involved for more than thirty-five years in the analysis, testing, inspection, monitoring, and repair of structural and architectural systems. He first joined WJE in 1977 as a project engineer in Northbrook, Illinois. Mr. Reins participated in the establishment of the WJE Denver office in 1982 and served as its branch manager through 1987. After working for two other consulting firms, he returned to WJE in 2000.

Mr. Reins has investigated numerous structural failures. In addition, he has performed many field and laboratory tests on structural systems involving a wide range of building materials. Since moving to Colorado in 1982, he has devoted a significant portion of his time to the evaluation of structural distress due to unstable soils. Mr. Reins has investigated and repaired numerous commercial, municipal, and residential structures damaged by expansive and collapsing soils.

## REPRESENTATIVE PROJECTS

### Failure Investigations

- Monroe Street Parking Garage - Chicago, IL: Punching shear failure of concrete flat slab
- Pleasants Power Plant - Willow Island, WV: Collapse of hyperbolic concrete cooling tower during construction
- Kemper Arena - Kansas City, MO: Collapse of steel roof structure
- Horizon Stadium - Rosemont, IL: Roof collapse involving long-span glulam arches
- John Purdue Block - West Lafayette, IN: Failure of masonry bearing walls
- Walnut Street Viaduct - Denver, CO: Collapse of concrete pier support during erection of precast girders
- University Hills Baptist Church - Denver, CO: Long-span steel roof truss failure
- Howelsen Hill Ski Lodge - Steamboat Springs, CO: Failure of timber log structure
- Moore Haven Bridge - Moore Haven, FL: Collapse of long-span precast bridge girders during erection
- Grand Timber Lodge - Breckenridge, CO: Failure of underground parking structure
- C470/I70 Bridge - Golden, CO: Collapse of steel bridge girders shortly after erection

### Repair and Rehabilitation Design

- Soldier Field - Chicago, IL: Structural rehabilitation and strengthening
- John Purdue Block - West Lafayette, IN: Post-collapse repair of historic structure
- Wyoming State Penitentiary - Rawlins, WY: Underpinning and compaction grouting
- Grand Timber Lodge - Breckenridge, CO: Post-collapse repairs and stabilization of adjacent structures
- Level (3) Communications - Broomfield, CO: Foundation, slab, and drain system repairs
- Southlands Shopping Mall - Aurora, CO: Installation of dewatering wells; structural and cosmetic repairs
- Carrara Place - Greenwood Village, CO: Post-tensioned parking garage repairs
- Fadden Building - Galveston, TX: Jet grouting
- Hundreds buildings affected by expansive and collapsing soils
- Westin Riverfront - Avon, CO: Develop and install strengthening details for precast concrete beam slabs with Cazaly connections
- 601 Broadway - Denver, CO: Emergency stabilization, repair, and releveling associated with the partial failure of a precast column
- COBANK Center - Greenwood Village, CO: Evaluation and retrofit design for deficient precast concrete column joints

### Peer Review

- 2555 Grand Building - Kansas City, MO
- Crown Center Link System - Kansas City, MO
- Hallmark Warehouse - Leavenworth, KS
- Grand Vacations, Peak 8 - Breckenridge, CO
- Pecan Park Apartments - La Porte, TX

### Load Testing

- George Washington Bridge - New York, NY
- TRESTLE - Kirtland Air Force Base, NM
- Monroe Street Parking Garage - Chicago, IL
- Farm Credit Bureau Building - Denver, CO
- 23rd and Blake Building - Denver, CO

### Field Monitoring

- WHO Headquarters - Geneva, Switzerland
- Hyatt Regency Hotel - Kansas City, MO
- Procter & Gamble Garage - Cincinnati, OH
- Westminster City Hall - Westminster, CO
- Thornton Civic Center - Thornton, CO
- Laramie Building - Golden, CO
- Mile High Stadium - Denver, CO
- Safeway Store - Aurora, CO