PERSONNEL QUALIFICATIONS

Richard A. Walther | Principal

EDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 1986
  - Master of Science, Civil Engineering, 1989

PRACTICE AREAS

- Bridge Engineering
- Fatigue and Fracture Studies
- Failure Investigation
- Nondestructive Evaluation
- Facade Assessment
- Repair and Rehabilitation Design
- Construction Claims Evaluation

REGISTRATIONS

- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Concrete Institute - Illinois Chapter, past president
- American Society of Civil Engineers - Boston Chapter, past chair and Illinois Chapter, past vice president
- Transportation Research Board

CONTACT

rwalther@wje.com
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EXPERIENCE

Richard Walther has extensive experience in the inspection and evaluation of building and bridge structures that exhibit distress and deterioration. He has a particular interest in the field of nondestructive evaluation (NDE) and has developed considerable experience in the use of NDE techniques for the assessment of steel, masonry, and concrete buildings and bridges. Mr. Walther has in-depth experience in bridge testing and fatigue and fracture investigations, having completed over forty load tests. He has developed and delivered training on bridge construction inspection and bridge rehabilitation design for the National Highway Institute.

Mr. Walther has completed numerous building envelope studies, particularly involving steel curtain wall and historic masonry systems. His experience includes facade inspection and repair design of high- and mid-rise structures involving distress to envelope components.

REPRESENTATIVE PROJECTS

Bridge Engineering

- Central Artery/Tunnel (Big Dig) - Boston, MA: Deputy project manager for $5 million safety audit
- Fremont Bridge - Portland, OR: Fatigue inspection, load testing, ultrasonic inspection, and repair design
- Indiana Bridge Pin Inspection Program - Statewide: Inspection and testing of more than 350 bridge pins

Repair and Rehabilitation Design

- Fairmont Copley Plaza Hotel - Boston, MA: Investigation, repair, and construction administration for historic masonry and terra cotta facade
- Kaufmann's (now Macy's) - Pittsburgh, PA: Investigation, repair, and construction administration for historic masonry and terra cotta facade of flagship store

Construction Claims Evaluation

- Gillette Stadium - Foxborough, MA: Investigation and consultation of claims following construction of new stadium

TECHNICAL COMMITTEES

- TRB AFF40 - Field Testing and Nondestructive Evaluation (NDE) of Transportation Structures
- TRB AFF40-1 - Nondestructive Evaluation of Bridges
- TRB AHD30 - Structures Maintenance

AWARDS

- Young Civil Engineer of the Year Award, Illinois Section of ASCE, 1994
- Edmund Friedman Young Engineer Award for Professional Achievement, ASCE, 1994
- President's Award, Boston Society of Civil Engineers, 2004