

### Matthew Ehlers | Associate III



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Architectural Studies, 2018
  - Master of Architecture, 2020
  - Master of Science, Architectural Studies (Structures), 2020

#### PRACTICE AREAS

- Condition Assessment
- Repair and Rehabilitation
- Roofing and Waterproofing
- Bridge Engineering
- Architectural Testing
- Nondestructive Evaluation
- Failure/Damage Investigation
- Data Asset Management

#### REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges

#### PROFESSIONAL AFFILIATIONS

- International Institute of Building Enclosure Consultants

#### CONTACT

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#### EXPERIENCE

Matt Ehlers conducts architectural and structural engineering projects related to the investigation and repair of building enclosure systems, roofing and waterproofing, facades, and structure failures and damage. He has provided services for bridges, schools, airports, office buildings, high-rise mixed-use buildings, military bases, convention centers, condominiums, stadiums, hotels, and structures across the country. Mr. Ehlers performs condition assessments, field investigations, architectural and nondestructive testing, supports repair and rehabilitation projects, and provides construction period and administration services. He also specializes in utilizing computer programming and data structures for project-based data asset management.

#### REPRESENTATIVE PROJECTS

##### Condition Assessment

- Waikiki Beach Marriott Resort - Honolulu, HI: Building enclosure condition assessment and concrete repairs
- City and County of Honolulu Parking Garages - Oahu, HI: Architectural and structural assessments of various parking garages
- Park at Pearlridge - Aiea, HI: Condition assessment of three residential towers and two parking structures
- Country Club Village - Honolulu, HI: Condition assessment of two residential towers and a parking structure

##### Repair and Rehabilitation

- Camelot Condominiums - Honolulu, HI: Facade investigation and repair designs
- Harbor Court - Honolulu, HI: Condition assessment and repair of facade elements
- Colonnade on the Greens - Aiea, HI: Facade investigation and repair designs of five condominium towers and parking structures
- Kawaiaha'o Plaza - Honolulu, HI: Investigation and repair design for corrosion-related distress of precast concrete spandrel panels
- Admiral Thomas Recreation Deck - Honolulu, HI: Recommendations and repair design for renovation
- Waialua High and Intermediate School - Waialua, HI: Design for strengthening of existing gymnasium to be hurricane shelter

##### Roofing and Waterproofing

- Wailea Point Village - Wailea, HI: Roofing replacement of eighty-four structures
- Kamauleule Building, DOH Laboratory - Pearl City, HI: Roofing condition assessment and repair recommendations
- Camelot Condominiums - Honolulu, HI: Roofing condition assessment
- SGI Cultural Center - Honolulu, HI: Below-grade waterproofing investigation
- Multitower High-Rise - Honolulu, HI: Waterproofing and roof design for two residential towers and a parking structure

##### Bridge Engineering

- Hawaii Department of Transportation Bridge Inspections - Oahu: Routine and fracture critical inspections, scour assessments, and repair recommendations of various bridges

##### Architectural Testing

- Turtle Bay Resort - Kahuku, HI: Observation of air leakage (ASTM E783) and window water penetration testing (ASTM E1105)
- Lihue Airport Ticket Lobby - Lihue, HI: Window and skylight water penetration testing (ASTM E1105)
- Kalakaua Gardens - Honolulu, HI: Testing of flat glass windows (ASTM C1036)

##### Nondestructive Evaluation

- Volcano Damage - Puna, HI: Damage investigations due to reported effects of volcanic eruption
- Aloha Stadium - Halawa, HI: Investigation of endzone braces and end-grid rakers

##### Failure/Damage Investigation

- Marine Corps Base Hawaii - Kaneohe, HI: Evaluation of exterior systems
- 1750 Occidental Avenue South - Seattle, WA: Assessment of fractured heavy timber roof trusses

##### Data Asset Management

- Luxury Condominiums - Wailuku, HI: Litigation support for construction defect case for more than one hundred condos
- Hotel - Kauai, HI: Litigation support for construction defect case and data asset management