Ethan C. Dodge | Principal Engineer, Large/Complex Loss, **PE**

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Professional Summary:

Mr. Dodge is a structural/materials engineer with over twenty years of experience that includes condition assessments of existing facilities, concrete repair, root cause investigations into failures in building systems and construction materials.

Mr. Dodge holds a bachelor's degree in Civil Engineering and a master's degree in Structural Engineering/Materials Science. He spent the first four years of his career applying nondestructive test techniques to a wide variety of structural evaluations. For the past seventeen years, his practice has primarily been involved in the evaluation of structures where the application of field and laboratory testing are beneficial. Mr. Dodge has led and supported hundreds of complex diagnostic assessments throughout the United States and abroad. Clients value his practical, cost-conscious approach to assignments ranging from single family homes to large infrastructure and new construction projects.

Areas of expertise include, but are not limited to:

- Structural Evaluation and Conceptual Repair
- Building Envelope Evaluations
- Construction Defect Evaluations
- Material Characterization
- Contract and building code compliance

Licenses and Certifications:

Professional Engineer (Additional states available upon application):

Connecticut, #34587	Illinois, #062.056214
Massachusetts, #54482	Maine, #PE16511
New Hampshire, #12095	Rhode Island, #14084
Texas, #141019	Vermont, #135059
North Carolina, #054863	

National Council of Examiners for Engineering and Surveying (NCEES) #25501

Project Experience:

Transbay Tower, San Francisco, California
Forensic and Failure Investigation
Worked with experts and stakeholders to develop investigation scope. Designed and implemented the field evaluation. Provided documentation of existing conditions to stakeholders and assisted the design team in determining the suitability of in place construction.

Ford Island Bridge, Honolulu, Hawaii
Forensic and Failure Investigation
Worked with stakeholders to develop investigation scope. Directed field evaluation and coordinated interpretation of field and laboratory test data.

O'Hare Canopy, Chicago, Illinois
Forensic and Failure Investigation
Reviewed weld test results performed by others and determined the information could not be relied upon., Directed fabrication of samples with characteristic defects and designed a verifiable test program for evaluation of difficult to access welded connections

LNG Tank Evaluation, Sakhalin Island, Russia
Structural Evaluation
Developed project scope and project lead for evaluation of damage causation and extents. Worked with repair contractor to develop repair means and methods.

John Coffee Bridge, Florence, Alabama
Structural Evaluation
Developed and managed complex field and laboratory diagnostic assessment of mile-long bridge including topside and marine access. Multiple nondestructive and laboratory test methods were used to assess current conditions and predict future performance.

Professional Experience:

EFI Global, Principal Engineer, 2021 - present
CTLGroup, Senior Engineer, 2006-2021
Simpson Gumpertz & Heger, Senior Engineer/Staff Engineer, 2003-2006
CTLGroup, Engineer I/II, 1999-2003

Specialized Education/Training:

Advanced Roofing Certification (2024)
Certified Roof Commercial and Residential Roof Inspector (2021)
Building Science Fundamentals, Building Science Corporation (2021)

Education:

Master of Science, Structural/Materials Engineering, University of New Hampshire, Durham, NH 1999

Bachelor of Science, Civil Engineering, University of New Hampshire, Durham, NH, 1996

Affiliations:

American Concrete Institute (ACI), Member of 228
American Society of Civil Engineers, Member (ASCE)

Publications and Presentations:

Saldua, Dodge, Kolf, Olson "Reinforced Concrete Antenna Pedestal", Concrete International, April 2018

Dodge, Ethan C, Villalobos, Salvador "Impulse Response data analyzed for repeatability and numerical magnitudes", NDT-CE, Fall 2015

Dodge, Ethan C, Lewis, Aaron R "Waterproofing and elevation profiling of a subsurface drainage layer", Elsevier Construction and Building Materials, April 2010

Dodge, Ethan, Sherman, Matthew "Structural Evaluation and Repair of Internally Damaged Concrete, ASCE Forensic Engineering Fourth Congress, 531-541, Oct 2006