



ESI's Architectural Investigation Team is comprised of licensed professional structural engineers with experience investigating issues related to residential, commercial, institutional, manufacturing, and municipal structures, including bridges, parking decks, and towers.

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### Architectural Investigation Services

ESI's Architectural Investigation Team has a deep understanding of the mechanics of the built environment. Their experience spans a variety of structural matters, including ADA compliance, foundation and settlement issues, material failures, defects in building systems and components, premises safety, structural integrity issues related to loads, displacements, and stresses caused by natural and man-made forces.

Whether the project involves a small residential home, a high-rise office building, a parking deck, or a large commercial complex, our engineers work with clients to help them understand the origin and cause of defects or damages while developing

Our team's expansive skill set makes it possible for us to identify the origin and cause of defects while developing repair strategies to restore structures to functionality as quickly, cost effectively and safely as possible.

repair strategies and recommendations. Our structural engineers are routinely called in cases involving professional liability, construction defects, failures in building systems, water and weather related damage, and personal injury.

### Multidisciplinary Approach

At ESI, our teams are highly focused but have ready access to our extensive network of other disciplines and specialties. Our Architectural Investigation Team frequently works with experts in biomechanics, civil, structural, mechanical, electrical, fire and explosion, materials, regulatory and compliance, and visualization to provide our clients with clear and comprehensive answers.

### Tools and Technologies

Our in-house experts also leverage the latest technologies to investigate design, construction and material defects that may damage or compromise structures. For hard to reach places, we use Faro 3D laser scanners and drones, which enables us to non-destructively gather highly accurate data in spaces both large and small. With this data, we can then provide a more complete assessment of the environment or damages, as well as 3D models and thorough schematics.

## OUR AREAS OF SPECIALIZATION

- ADA Compliance Assessment
- Building Envelope Investigation
- Code Compliance Assessment
- Construction Defects Investigation
- Construction Scheduling and Monitoring
- Defect Repair Design
- Design and Materials Defects Analysis
- Expansive Soils
- Expert Witness Services
- Failures, Distress, Hail, Wind, Lightning
- Fire Damage/Fire Suppression Systems
- Flood, Moisture, Mold Investigations
- Geotechnical Services
- HVAC Design and Damage
- Indoor Environmental Investigations
- Insurance Claim Investigation
- Mechanical, Electrical and Plumbing
- Environmental Assessment
- Premises and Professional Liability
- Restoration Assessment and Redesign
- Slip, Trip and Fall Investigations
- Water and Storm Water Management
- Water Intrusion and Air Infiltration

### Contact ESi

To get in touch with ESi's Architectural Investigations Team, call Chad R. Fischer Ph.D., S.E., P.E. at (630) 851-4566, or send an email to [crfischer@engsys.com](mailto:crfischer@engsys.com).



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