



SERVICE PROFILE

Design-Build



- Building science consulting
- Design peer review
- Code analysis
- Preconstruction surveys
- On-site monitoring and testing
- Construction troubleshooting
- Curtain wall design
- New construction materials testing
- Structural design for new construction
- Quality control and field testing of construction assemblies, such as exterior walls and roofing systems
- Thermal analysis
- Nonlinear finite element analysis

WJE design professionals help make the overall project design achievable, maintainable, and economically viable. WJE's interdisciplinary staff perform a wide range of design consulting tasks, including the establishment of performance criteria, detailing, materials selection, constructability, and quality assurance programs. WJE works with the design-build team—including project architects, contractors, and other parties—in a design-build approach to efficiently and collaboratively manage expectations and address problems prior to occupancy.

In a design-build setting, WJE professionals work with the design-build team and property owner to develop project requirements and a practical approach to the design and construction. WJE provides continuity of services from the initial development of project requirements through completion of construction. Our peer review services, problem solving, component design, and performance testing support the proper installation and long-term durability, serviceability, and performance of an array of building materials, components, and systems.

With our long history of investigating building failures, WJE brings a practical, holistic approach to avoid construction problems and help meet the project budget and schedule. Our architects, engineers, and materials scientists understand the challenges and project constraints, and draw upon our collective experience to prioritize the issues and develop solutions for each new construction or repair project, leading to successful completion with minimal delays.





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REPRESENTATIVE PROJECTS

- Elm Tree Road Pedestrian Bridge - Lake Forest, IL: Bridge rehabilitation
- Eppley Airfield - Omaha, NE: Fire protection and life safety code consulting
- Minuteman Village Housing Development - Great Falls, MT: Evaluation of reported foundation movement and related distress
- NVIDIA - Santa Clara, CA: Waterproofing design and engineering consulting
- The Ohio State University, McCorkle Aquatic Pavilion - Columbus, OH: Pool tile replacement and construction administration services
- Perry's Victory & International Peace Memorial - Put-in-Bay, OH: Investigation and restoration design
- The Pennsylvania State University, Old Main - University Park, PA: Exterior maintenance services
- San Jose International Airport, Terminal A - San Jose, CA: Waterproofing consulting
- Senate Underground Parking Garage - Washington, D.C.: Design-build construction administration services
- Yale University, Yale Bowl Restrooms - New Haven, CT: Consulting services for structural repairs, window replacement, and floor/wall coatings

