



## 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. Our interdisciplinary staff perform a wide range of design consulting tasks, including detailing, materials selection, constructability review, and the establishment of performance criteria and quality assurance programs. We work with the project architects, engineers, contractors, and property owner in a design-build approach to efficiently and collaboratively manage expectations and address problems prior to occupancy.

In a design-build setting, WJE professionals provide 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 proper installation and long-term durability, serviceability, and performance of an array of building materials, components, and systems. In addition to collaborating within a design-build framework, WJE has performed design-build work, particularly on bridge structures, as both the designer and contractor.

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 engineers, architects, and materials scientists understand the challenges and constraints of design-build projects. We draw upon our collective experience to identify possible 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

