



## PROJECT PROFILE

# Fieldhouse of the Future

Masonry and Roofing Consulting and Repair Design | Indianapolis, IN



### CLIENT

Populous and Capital Improvement Board of Managers for Marion County Indiana (CIB)

### BACKGROUND

Completed in 1999, the recently renamed Gainbridge Fieldhouse is approximately 750,000 square feet and serves as the primary venue for the Indiana Pacers and the Indiana Fever basketball teams. The fieldhouse is covered with seventeen separate roof areas and clad on the exterior with a combination of brick, limestone, metal panels, and curtain wall systems. In 2020, CIB and Pacers Sports and Entertainment commenced the "Fieldhouse of the Future" project. The project included renovations to the fieldhouse to update the interior amenities, add an outdoor terrace, and construct the Bicentennial Unity Plaza. The work also included exterior building enclosure repairs.

The clients engaged WJE to provide roofing and masonry consulting and repair design services during the "Fieldhouse of the Future" project. Populous was the designer of record for the Fieldhouse of the Future project and asked us to perform roofing replacement design for fourteen of the seventeen roof areas, including a new roof area at the new outdoor terrace. CIB asked us to provide masonry evaluation and repair design services for the existing brick and limestone walls of the fieldhouse.



### SOLUTION

CIB previously engaged WJE to evaluate and provide a roofing replacement phasing plan and to design the main barrel roof replacement. We collaborated with contractors to confirm roofing conditions and as-built details during the design and provided updated phasing options. Due to efficiencies of ongoing construction activities, the clients opted to replace the remaining fourteen aged roof areas.

Concurrent with roofing design, we evaluated the exterior brick masonry and limestone veneer facades. We found the facades to be generally in serviceable condition with only isolated distress warranting repair. The polyurethane joint sealants in the masonry walls were twenty-two years old and we found widespread weathering and failure of the joints.

We developed separate drawing packages for the roofing and masonry repairs, which incorporated improved detailing for existing conditions. In 2021 and 2022, roofing material shortages were an industry-wide challenge. Our nationwide network of roofing consultants and external roofing industry connections assisted the clients with an alternative roofing system selection to manage the impacts of these shortages.

We were actively involved during the construction phase and reviewed submittals, shop drawings, and mock-ups, as well as completing periodic site visits to observe the quality of the work. We also provided additional consulting services for conditions discovered during repairs.

