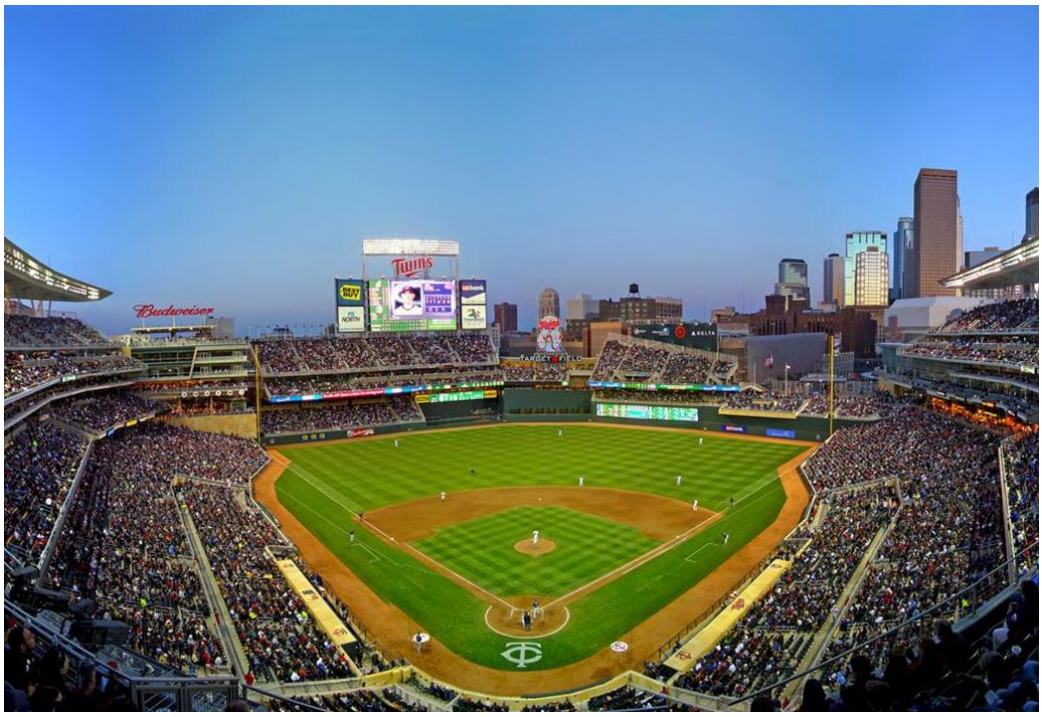
PROJECT PROFILE

Target Field Stadium

Peer Review of Building Envelope | Minneapolis, MN



CLIENT

M.A. Mortenson Company

BACKGROUND

Target Field Stadium is a 40,000 seat major league baseball stadium located in downtown Minneapolis, Minnesota. The ballpark, which is home to the Minnesota Twins baseball team, includes six separate levels that encompass approximately one million square feet. The structure consists of cast-in-place and post-tensioned concrete and structural steel framing. The facade consists of Mankato limestone faced architectural precast concrete wall panels and glass curtain walls.

Target Field Stadium is an open-air facility that is subject to Minnesota's inclement weather. As such, the performance requirements for the building enclosure are critical to the comfort of attendees and the long-term durability of the stadium. To assure the successful construction of the building enclosure, the contractor needed the services of an expert in controlling air and water migration and infiltration as well as managing any water or moisture that might enter the building enclosure.

SOLUTION

WJE engineers provided building enclosure review services from design through final construction. WJE reviewed the design details and made several detail modifications to better address possible water intrusion and air infiltration issues. WJE engineers recommended changes in flashing details and provisions for catching and diverting incidental water back to the exterior. Built-in gutters were designed, and WJE engineers discussed concerns about the proposed system. WJE engineers recommended the use of mock-ups and water testing to verify the efficacy and finished appearance of critical details.

By clarifying design details and recommending additional provisions not addressed in the initial design, WJE engineers improved the ability of the building enclosure to withstand the harsh Minnesota climate.

WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS