PROJECT PROFILE

University of Minnesota

Fall Protection Anchor Inspection | Minneapolis, MN

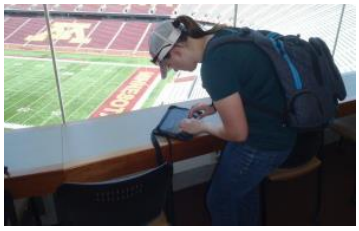
CLIENT

University of Minnesota

BACKGROUND

The University of Minnesota owns nineteen buildings with permanent with fall protection fixtures and systems that are utilized for facade maintenance and window washing. Pursuant to Minnesota Administration Rule MN 5205.7030, the University is obliged to provide users of this equipment annual certification that these fall protection devices and systems are suitable for continued use.

WJE was retained to inventory and identify these existing fixtures and systems and to conduct testing or develop other ways of providing the required certification for these existing fixtures and systems. The project was undertaken in two phases. Phase 1 consisted of inventorying existing fixtures and systems and developing schematic testing protocols and budget estimates for performing testing. Phase 2 included testing and other means of providing the required certification.



SOLUTION

In Phase 1, WJE engineers reviewed Safety Regulation Documentation to identify those sections applicable to the owner's obligation and duties as well as reviewed existing design documentation and drawings, manufacturer's data, installation and inspection records, and past testing reports. The engineers observed and documented the system's anchorage types, quantities, and locations; evaluated access and testing limitations; and identified intended use and visually verified conformance with available construction documentation. Schematic load testing protocols were then developed for each anchor/system type. WJE also determined if specialized access, including aerial lifts or swing stages would be required, performed limited structural evaluation, and prepared budget estimates for Phase 2 work.

In Phase 2, WJE finalized load testing protocols for each anchor type and developed sketches of required test jigs for shop fabrication. The engineers procured materials and fabricated required test jigs. Finally, the team prepared a written report as well as a certification statement, a roof anchor plan, an exterior Inspection Form, a rope descent daily log, and anchor certification labels.

WJE | ENGINEERS ARCHITECTS MATERIALS SCIENTISTS