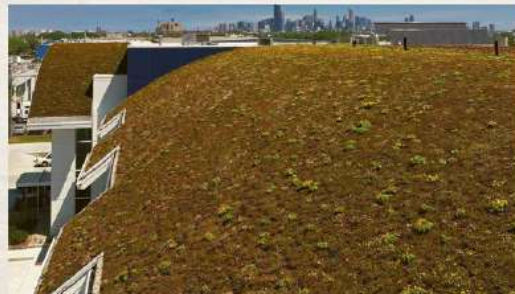


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► Structural Systems

Patrick Engineering Inc.

Madison Street Viaduct over Chicago Union Station Tracks

Owner: Chicago Department of Transportation

Consultants: Environmental Design International, Inc. / Wang Engineering, Inc. /
Gandhi and Associates, Inc. / Zroka Engineering, P.C. / Structure Designs, Inc. /
TY Lin International (Phase III)

The Chicago Department of Transportation (CDOT) retained Patrick Engineering to perform Phase I preliminary engineering studies and prepare Phase II contract plans and specifications for the replacement of the Madison Street Viaduct over the Union Station tracks. The micro-pile foundation and re-use of existing grade beams and caissons led to cost savings and minimized commuter disruptions. The staged construction schedule minimized commuter disruptions as well. The use of galvanized steel beams minimized the need for future maintenance tasks. Upgraded pavement markings and signal equipment, and improved riding surface and signal timing enhanced pedestrian safety and reduced crash potentials.

