

Denver Union Station Redevelopment

Denver, CO



In 2010, construction began at the Denver Union Station to transform it into a multimodal transportation hub for the Mountain West region. This \$500 million design-build project covers a 40-acre site and involves the construction of an underground regional bus facility with 22 bays, an eight-track commuter rail hall with five platforms, relocation of an existing light rail station, laying track, significant landscaping and improvements to surrounding streets. \$32 million is also being spent on public improvements including lighting, granite seating benches, lots of trees and planters shaped like teardrops that channel the flow of people from trains.

Kiewit Infrastructure Co. leads the transit component's design-build team, working with other corporate units, Kiewit Building Group and Mass. Electric Construction Co. Kiewit teamed up with architects/engineer Skidmore, Owings & Merrill (SOM). Contractors are pursuing LEED certification for the project, working with the U.S. Green Building Council to create a LEED designation for a transit complex.

The bus facility measures 1,100 feet long and 150 feet wide, and sits 23 feet below grade. The passenger concourse alone includes 44,000 square foot of space. Because the facility is below the Central Platte Valley water table, its exterior walls are 2 feet thick and its floor is 4 feet thick to keep them both watertight. The dirt that was excavated for the structure (roughly 150,000 cubic yards) was recycled as backfill. Epoxy-coated steel reinforcement was being used extensively in all levels of the structure.

Team

Owner:

Denver Union Station Project Authority

Architect / Designer:

Skidmore, Owings & Merrill (SOM)

Engineer:

Skidmore, Owings & Merrill (SOM)

General Contractor:

Kiewit Infrastructure Co.

Design Criteria:

- Transform Denver Union Station into a multimodal transportation hub.
- Provide a structure with consideration to threat and vulnerability risk assessment requirements.
- Obtain LEED certified transit complex.

Total Project Cost:

\$500 million

Year Completed:

2014

Photography:

Denver Union Station Project Authority
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