

1ST PROJECT IN NORTH AMERICA TO DOCUMENT AND REUSE STEEL FOR STRUCTURAL USE IN A NEW CONSTRUCTION, COMMERCIAL PROJECT AT THIS SCALE.

BOULDER COMMUNITY HOSPITAL DECONSTRUCTION AND STEEL REUSE



1ST MAJOR COMMERCIAL BUILDING (250,000 SF) TO BE COMPLETELY DECONSTRUCTED WITH 161 TONS OF RECOVERED STEEL FROM THE HOSPITAL AVAILABLE TO REUSE.

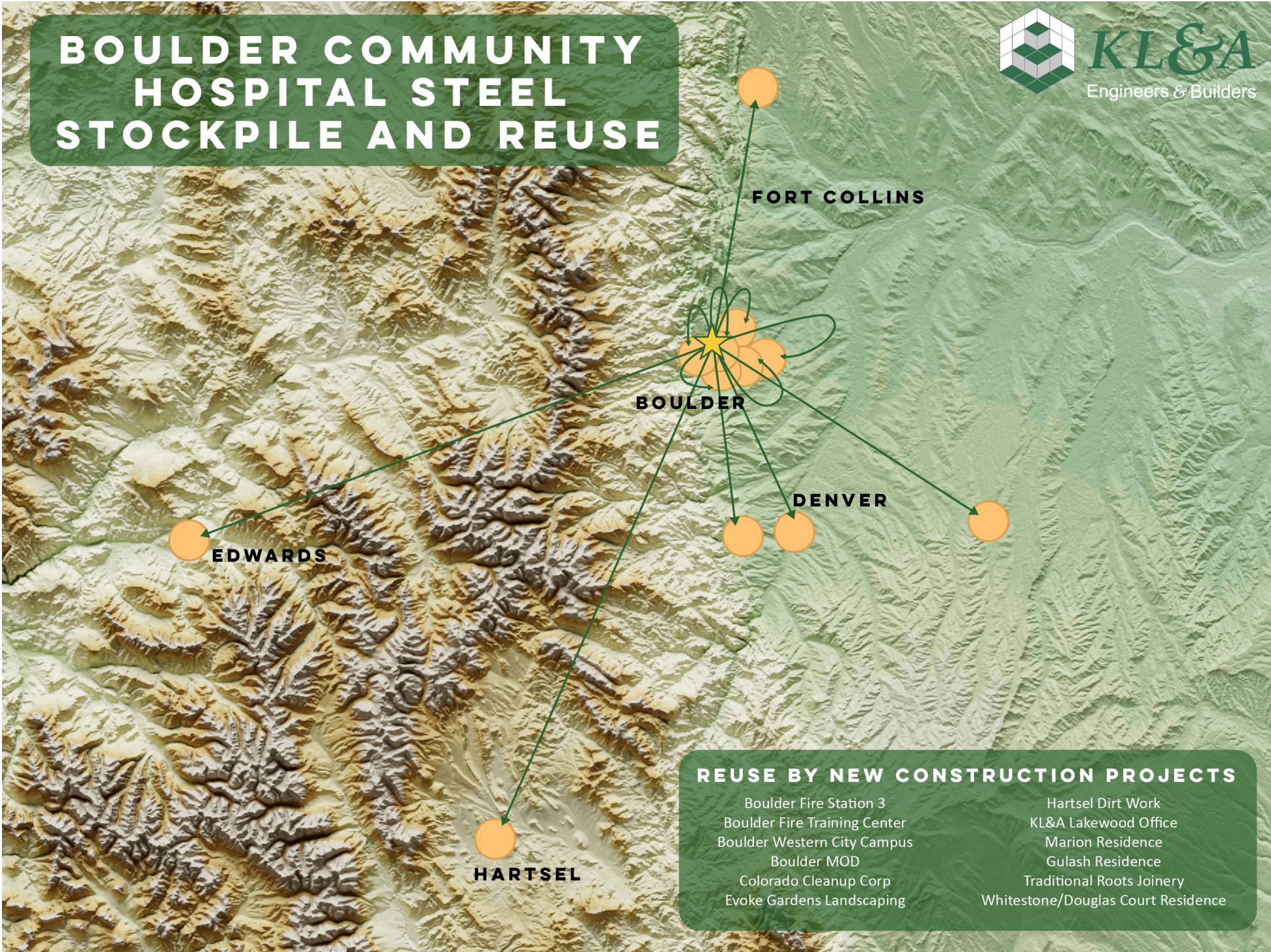
The Boulder Community Hospital deconstruction project is demonstrating a new path for the built environment. Instead of traditional demolition, the former hospital was carefully deconstructed to recover valuable materials, creating one of North America’s first large-scale opportunities to reclaim and reuse structural steel in new construction.

KL&A developed the engineering processes and documentation standards needed to recover, catalog, and prepare structural steel for future use. By keeping materials in circulation within the Boulder community, the project reduces embodied carbon, supports local jobs, and provides a model for future commercial and residential construction projects.



1ST STRUCTURAL STEEL STOCKPILE IN NORTH AMERICA AT THIS SCALE, WITH 584 STRUCTURAL STEEL PIECES AVAILABLE FOR REUSE FOR COMMERCIAL AND RESIDENTIAL CONSTRUCTION PROJECTS.

Reuse of the steel resulted in a total GWP savings of 167,338 kgCO2eq across all projects, which equates to a carbon emissions savings of running 37 gasoline-powered cars on the road for twelve months.



The salvaged steel pieces were used in a total of 21 projects across Colorado. Of these projects, 16 reused the steel in structural applications and 5 reused the steel in a non-structural application.