

CASE STUDY



PROJECT DETAILS

Project Name:

Sinclair Road

Location:

Columbia, MO

Project Owner:

City of Columbia, MO

Product Manufacturer:

County Materials Corporation

Date:

2018

Key Products:

ArchCast® Precast Bridge System

ArchCast® Precast Bridge System Accelerates Construction Schedule and Minimizes Road Closure

Solutions: Precast bridge system saves time on-site; enhanced aesthetics; ease-of-installation

Located on a vital roadway in Columbia, MO, several corroding metal culverts posed a safety hazard and needed to be replaced quickly to minimize road closure. Time was of the essence, as the route under construction would not have an easy detour. The project had stiff penalties incorporated into its contract to ensure a timely completion. With this in mind, project leaders sought an easy-to-install bridge system solution that was capable of meeting these tight timelines without sacrificing quality.

An ArchCast® Precast Bridge System, manufactured by County Materials, was used to meet the project's schedule and structural requirements. Using precast concrete was advantageous, as it offers unmatched strength and durability to achieve a prolonged service life with low life cycle costs. Valuable time was saved on site, as the ArchCast units were manufactured to specified sizes and arrived ready to be installed. The bridge system's installation process was straightforward, and its surrounding bedding required less labor than that of alternative solutions. Within six weeks, seven 24' by 10' rise ArchCast sections were installed with the addition of 13 decorative wingwall units and four headwalls to complete the project on schedule.

Continued on page 2.



Aesthetics were also an important consideration, as the project was located in a growing part of the city. Unlike traditional options, such as standard culverts, the ArchCast Precast Bridge System offers enhanced aesthetics through its decorative facing that emulates natural stone. This design element elevates the project's overall appearance without additional labor.

The use of an ArchCast Precast Bridge System proved to be an ideal solution that met a variety of the city's needs. County Materials worked with project leaders to manufacture and deliver satisfactory results in a timely manner.



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