

ArchCast® Precast Bridge System



County Materials' ArchCast® Precast Bridge System is a modular, precast concrete solution designed for accelerated bridge construction. The precast arch units form durable, aesthetically pleasing bridges for vehicular, pedestrian, and wildlife crossings. This system minimizes on-site construction time and provides long-term structural integrity.

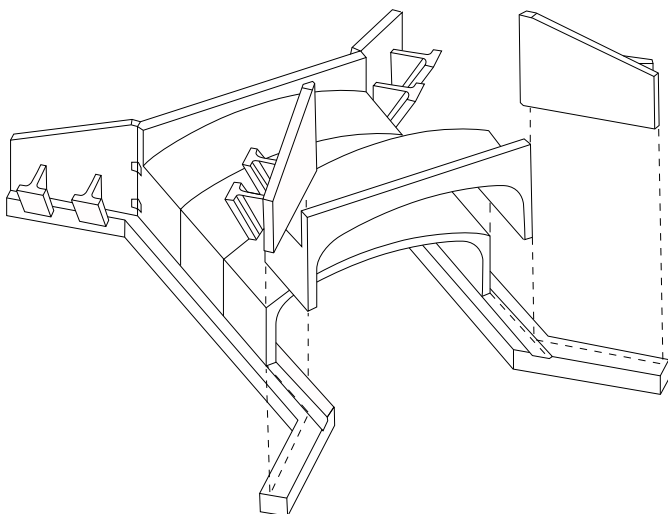
ArchCast bridges support clear spans from 12' to 84' with coordinated components including precast arched spans, wing walls, head walls, and retaining walls. For larger projects, ArchCast Twin Leaf units are available for spans beyond 60', offering the same durability and design flexibility for extended crossings. This fully integrated system simplifies construction sequencing, minimizes staging requirements, and reduces project complexity in areas with tight access or environmental constraints. Precast production in a controlled facility ensures consistent quality that meets AASHTO and ASTM standards, as well as DOT material requirements. Contractors benefit from reduced forming and curing time compared to cast in place methods, supporting faster installations and shorter road closures.

Manufactured for longevity, ArchCast bridge components have a service life of up to 100 years, lowering life-cycle costs. Optional formliner finishes applied to headwalls and wingwalls create stone, brick, or custom textures without changing structural design requirements. The retaining wall's earth anchor design eliminates tie backs, preserving the surrounding terrain and improving buildability. ArchCast bridges deliver durable, efficient, and environmentally responsible concrete solutions for infrastructure crossing applications.



Applications

- Highway and road crossings
- Pedestrian and bicycle bridges
- Wildlife crossings
- Drainage and waterway structures
- Tunnels for pedestrians, wildlife, or golf carts
- Underground detention



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Advantages

- The arched shape of the precast system utilizes a more efficient structural section, often requiring less reinforcement than flat-top designs.
- The ArchCast Precast Bridge System has a lower life-cycle cost compared to steel or cast-in-place structures, and is often a more economical and lower-maintenance solution than double or triple run box culverts.
- The arch design allows streambeds and natural waterways to remain largely undisturbed, supporting environmentally responsible infrastructure development.
- The natural arch profile, optional formliners, and decorative finishes create visually pleasing crossings that blend with surrounding landscapes.
- The arched geometry allows for a smooth transition from roadway to bridge.
- County Materials provides technical personnel onsite during the initial days of bridge installation to help ensure proper placement and efficient project startup.



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and American made since 1946