



Reconnecting a Rural Community in Cibola County, New Mexico, with an Acrow Bridge

Rapid installation provides a safe and cost-effective permanent replacement for collapsed culvert

Access to the village of Moquino, New Mexico was compromised when heavy rains destroyed a concrete bridge over the Seboyeta Creek on County Road 5. After the bridge's collapse, the village residents' only reasonable means for accessing the road was via a temporary bypass that ran through the seasonal creek, which needed to be re-graveled after every rain event and stormwater recession. As the primary means of entry and exit to the village, accommodating school buses and emergency responders, the installation of a replacement bridge for the small community was a priority.

Acrow personnel visited the remote site shortly after learning of the collapse from the United States Army Corps of Engineers (USACE). After an assessment, Acrow offered the structure's owner, Cibola County, a cost-effective permanent solution using the rapidly installed modular steel 700XS® bridge.

Purchased directly by the county, the two-lane Acrow bridge is 80 feet long (24.38m) by 30 feet wide (9.15m).

It is designed to AASHTO HL-93 loading and features an epoxy-aggregate anti-skid deck. After the modular components arrived at the site in October 2024, project contractor Compass Engineering & Construction Services, LLC assembled the bridge within a week, then installed it with a crane-assisted launch. After finalizing the construction, the bridge was inspected and opened to traffic.

Acrow's modular steel solutions are well suited for remote or challenging areas, and the 700XS helped enable the project's main goal – to restore vital rural infrastructure. Unlike other construction methods, compact modular components can be easily transported and are quickly assembled and installed with minimal heavy equipment. Acrow's bridges are manufactured with premium high-strength, high-quality steel, and hot-dip galvanized for corrosion protection for a service life of 75 years or more with only minimal maintenance requirements.



Bridge length: 80' (24.38m)

30' (9.15m)

TL-4

Epoxy aggregate

Crane-assisted launch

HL-93

- All major components galvanized to AASHTO M111-ASTM A123
- All bolts are hot-dip galvanized
- All pins are electrogalvanized

(A) Panel chords, diagonals, verticals,
reinforcing chords, rakers to
AASHTO M223 GD 65

- (B) Raker braces, transoms, top chord braces, swaybraces, transom braces, diagonal chord braces, decking to AASHTO M223 GD 50

- (D) Bolts to AASHTO M164M - A325