

US SPEC PROJECT PROFILE

US 54 Canadian River Bridge

US SPEC Products: NA Grout, NA-100, R3, Ezkote Green, GP Grout and 3-2-1

Location: Logan, NM

Date of Completion: 2020



The New Mexico Department of Transportation (NMDOT) replaced an existing steel deck truss bridge over the Canadian River south of Logan, NM. HY 54 is a major trucking route from Chicago to El Paso, TX and sees in excess of 50% truck traffic.

The cast-in-place segmental structure type was selected to minimize impacts to the Canadian River and wetlands. The new bridge was New Mexico's first cast-in-place segmental bridge.

US SPEC NA Grout and NA-100 were used to fill the annular spaces in the conduit that houses the steel tendons. Depending on the amount of drape determined which grout was used. If there was over 6 ft. of drape, NA-100 was used due to its higher resistance to bleed. For anything under 6 ft., NA Grout was used. The bridge was just over 700 ft. long and 42 ft. wide.

Other products used on this project included US SPEC R3, Ezkote Green, GP Grout and 3-2-1.

US SPEC R3 was used to fill in the voids from the tendon anchorages on the side of the structure. Ezkote Green was used as a form release as it is environmentally friendly and could be used in sensitive areas, such as the wetlands on this project. GP Grout was used where a non-shrink ASTM C-1107 grout was required. Finally, 3-2-1 was used as a rubbing compound on some formed surfaces to achieve a better appearance.



US SPEC Products

NA Grout

High Flow, Non-Aggregate, Non-Shrink PT Grout

NA-100

High Flow, Bleed Resistant, Non-Aggregate, Non-Shrink PT Grout

R3

High Performance, Rapid Setting Repair Patch

Ezkote Green

Multi-Use, Non-Petroleum, Reactive Form Release

GP Grout

High Strength, Non-Shrink, Non-Corrosive Grout

3-2-1

Cementitious Resurfacing Coating

