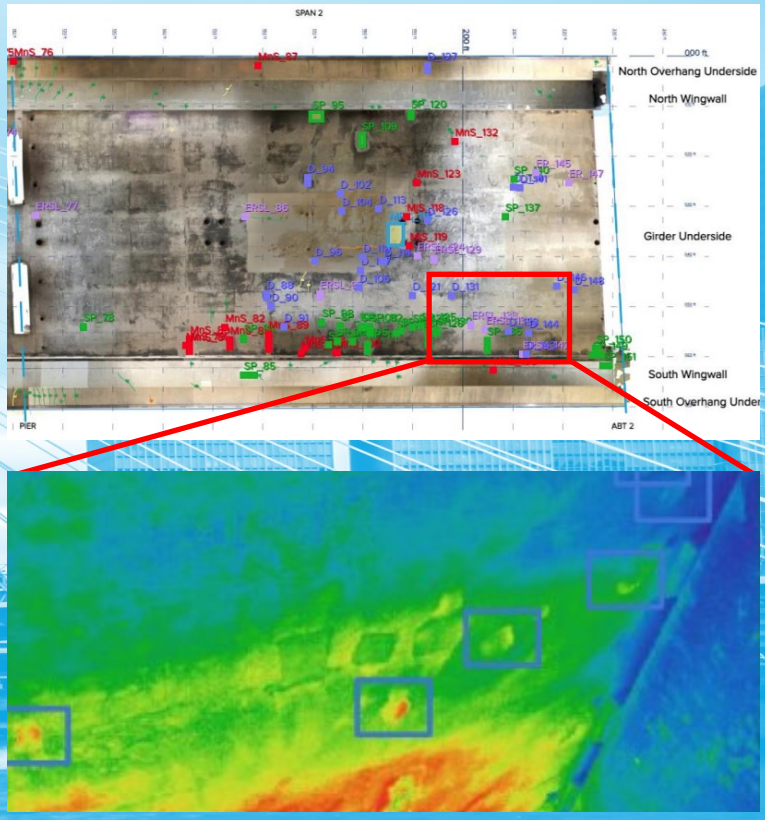
Box Girder Underside Scanning

The undersides of bridge decks are typically accessed by snooper truck or bucket lift, and their hands-on inspections can be extremely time-intensive work. To help narrow down the focus of these inspections, NEXCO images the underside surfaces from strategic locations on the ground or by boat to generate 2D or 3D copies of the underside. The image copies can be observed in detail from the safety of our office.

For this project, data was collected over the course of two days within left shoulder closures or near the bridge abutments. Both HD visual and IR were used to locate delamination and spalling.



Project Details

Client	[Agency in MD]
Reference	[withheld]
Target Area	36,000 ft^2
Project Period	06/2023

Impression

For a comparatively low cost, underside scanning using our U3S system produces highly useful information for inspectors who must prepare AASHTO element condition quantifications. Also, despite not being directly exposed to sunlight, infrared cameras were able to detect subsurface delamination on the underside very well. The accuracy of the findings was spot-checked by hammer-sounding by technicians on site.

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