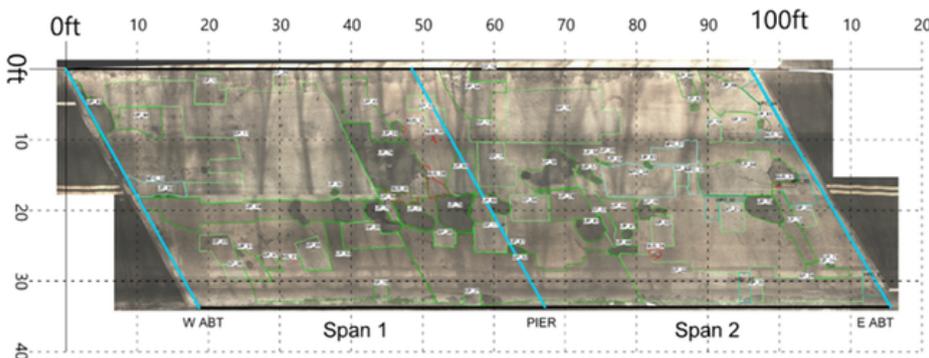


Evaluation of Two Country Bridges

Maryland

NEXCO was contracted to quantify the amount of compromised area in two bridge decks. One of the decks contained an asphalt wearing surface. NEXCO measured surface area containing of spalling, pattern cracking by reviewing HD visual imagery. It measured the amount of delamination/debonding by analyzing infrared data. Lastly, it mapped potential rebar corrosion and other subsurface damage by GPR analysis.

In addition to determining recommended repair areas with rectangular “boxed-off” polygons, we also produced a more exact total of affected areas by outlining each finding in freeform polygon shapes. This demonstrated a capability to measure both repair area and actual affected area for reference.



Defect Mapping Deliverable (Combined Result of Visual, Infrared, and GPR)



Target Bridge

Project Details

- Client : Maryland County
- Reference: Mark Wolcott / mark.wolcott@iseeusa.net
- Target area: 1,150ft
- Used Technologies: Ground Penetrating Radar/Deck Top Scanning System(Visual + Infrared)  
- Project Period: January, 2026

Impression

This project was the client's first use of mobile NDE scanning on their structures. The reports detailing the condition of the two bridges are being considered while making strategic plans for maintenance, preventative maintenance, and repair as needed.

Though normally weather is not suitable in winter months in the DC Metro area, a few unusually warm, dry days allowed our team to mobilize and collect quality data.