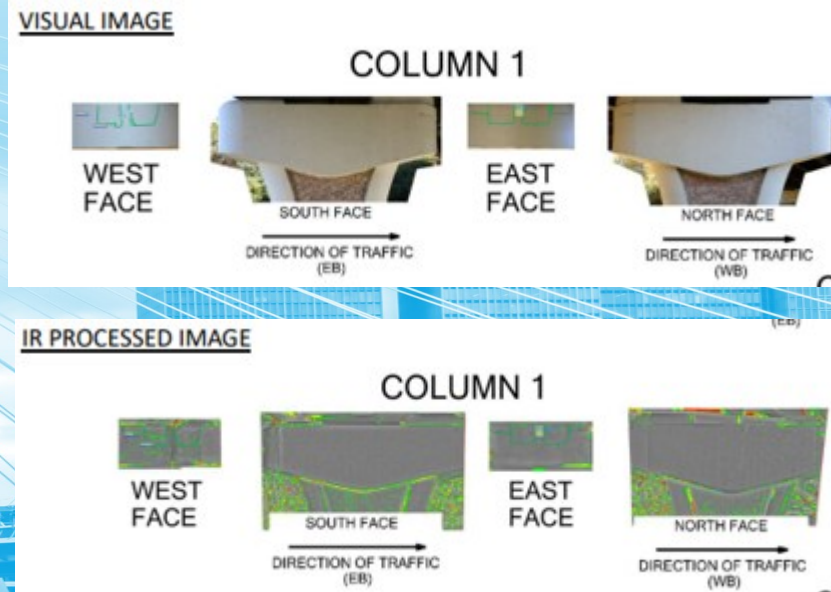


# Pier Cap Evaluation for 9 Bridges



Using hand-held and cart-mounted sensors, NEXCO captured HD visual and infrared imagery of 9 bridge piers along a major highway artery in the state of Maryland. Despite not being directly subjected to the sun's rays, substructure elements still go through temperature changes if surrounding ambient air temperatures exhibit enough change. Given adequate conditions and high infrared sensor sensitivity, subsurface delamination in these elements can be accurately detected.

The data was collected in two periods, daytime and nighttime, to ensure that both windows of opportunity to detect temperature differentials were taken advantage of.



## Project Details

Client	Maryland Agency
Reference	Withheld
Targets	9 bridges
Project Period	11/2021

## Impression

The ease of collection and high resolution of results allowed reviewers of the report to consider how the post-tensioned pier caps were performing. Questions as to the timing and method of tensioning were in question, but the patterns of current cracking did not evidence any major concerns.

The client was surprised at how fast field data was collected and report turned around.