

WMATA Infrared Metro Tunnel Scanning

SUMMARY

From 2018-2019, NEXCO-West USA served as a subcontractor under Gannett Fleming Parsons for the Washington Metropolitan Area Transit Authority (WMATA). By using NEXCO's Tunnel Scanning System (TSS), visual and thermal images of the tunnel surfaces were recorded. In addition, NEXCO provided data processing and deficiency analysis using the data captured.

Deliverables included high-resolution visual and thermal imagery which facilitated the identification and quantification of water infiltration, concrete deterioration, efflorescence, and cracks. NEXCO's complete assessment was delivered through its online viewing platform, which expedites access and usage of the results.

The main goal of this task was to provide recommendations for remediation measures concerning the tunnel segments and structures located along the metro lines. Ultimately, this project has contributed to the increased reliability and safety of WMATA's metro rail system.



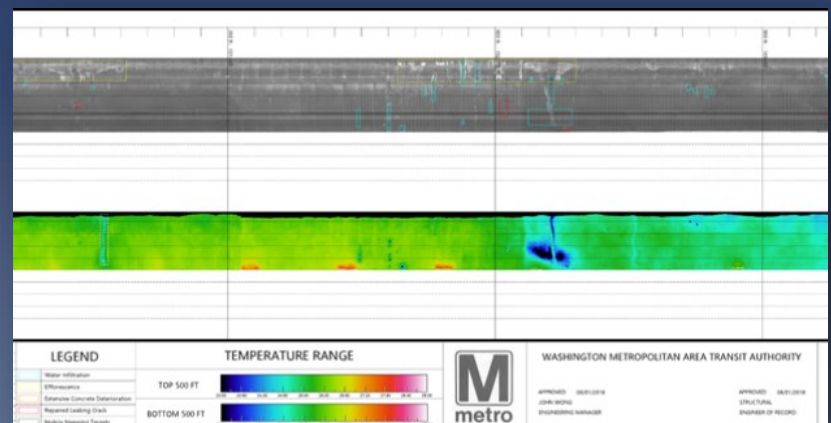
OVERVIEW

Client: Gannett Fleming Parsons

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Quantity: The total surface area: 843,816 sqft
(Red line, Blue line, Yellow line, and Green line)

Project period: 2018 - 2019



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