



PROJECT BRIEF

GDOT Vibration Monitoring Remote Automation

PROJECT PROFILE

CLIENT:
Georgia Department of
Transportation (GDOT)

LOCATION:
Jackson County, GA

VALUE:

- Real-time performance monitoring provided essential data for assessing deformation/movement

SERVICES PROVIDED:

- Vibration monitoring
- Remote data monitoring

“Threshold limits were established for allowable peak accelerations based on the type of facade on the office building. The data was collected and uploaded remotely to *iSiteCentral*®.”



VIBRATION MONITORING & DATA COLLECTION

Geocomp performed vibration monitoring by attaching a geophone - an InstanTel Minimate Pro4 to collect vibration data at five minute intervals for four weeks at a location between the office building and the road expansion. Threshold limits were established for allowable peak accelerations based on the type of facade on the office building. The data was collected and uploaded remotely to *iSiteCentral*® where it was charted in the longitudinal, vertical and transverse directions. In the event that an established threshold level was surpassed, an alarm was triggered notifying all project personnel. The data was quickly available for all project members to view.



BACKGROUND

The Georgia Department of Transportation (GDOT) was concerned about potential damage to a one-story office building due to vibrations from the expansion of Maysville Road in Commerce, Georgia.