

ATS Construction uses digital construction analytics to overcome complexities and prevent delays in Clays Mill Road project

Contractor



Owner



State



The project

Project type: Urban-road expansion

Data acquisition frequency: Monthly

Number of images: 2600

Results

- **75%** increase in collaboration
- **40%** time-savings in deviation detection
- **18%** cost-savings, reduced costs

Added value

- Transparency and collaboration amongst all project stakeholders
- Easy detection of deviations between original design plans and actual site conditions
- Real-world analysis, close tracking, and monitoring of project progress over time

Background

ATS Construction is a privately-owned, Kentucky-based company. Starting out as a small company with an asphalt plant, it has since grown into a company that specializes in complex roadway construction and improvements.

Relieving congestion and increasing safety in Clays Mill Road

Located in Lexington, Kentucky, Clays Mill Road is a 3.7-mile urban road that runs through a mixed-use area consisting of residential, school, church and commercial land. Traffic on this road is consistently increasing as the result of more and more development in the area.

In October 2020, the final phase of the Clays Mill Road improvement project began, extending between Harrodsburg Road and Twain Ridge (approximately 2 miles). The original project to widen the roadway has been going on for many years, and this final phase of the project being executed by ATS Construction, is divided into 4 sections with a projected cost of \$10.7 million.





Goals

- Relieve congestion
- Improve vehicle, pedestrian, bike and family safety in the neighborhood while maintaining the road's residential character
- Turn the road from a two-lane into a three-lane roadway
- Add a new center turn lane, curbs, gutters and sidewalks
- Increase access to local driveways
- Eliminate roadside ditches
- Improve drainage
- Add bike lines in both directions

Complex project, multiple challenges

The inherent complexity of the Clays Mill Road project gives rise to multiple challenges, including:

- Highly-populated residential area
- Need to move utilities
- Deviations between design and actual conditions
- Resident involvement

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“The biggest benefit of using this platform is that it’s a relationship builder. When all stakeholders have access to the full picture, we can alert the owner before things are done. The owner is definitely seeing major benefits from this as they are saving on change orders and delay costs.”

Dylan Murphy, Project Manager,
ATS Construction

Staying one step ahead with advanced digital construction analytics

ATS Construction uses DatuBIM – Datumate’s cloud-native SaaS 4D infrastructure data analytics platform - to overcome the inherent complexity and challenges of the Clays Mill Road and other infrastructure projects.

According to Dylan Murphy, a Project Manager at ATS who uses the platform on a daily basis, DatuBIM helps the company stay one step ahead by understanding where they are going next and what obstructions they may run into. And, in addition to using it as an internal digital construction management platform, the company also gave the Lexington Fayette Urban County Government view access to the DatuBIM platform.

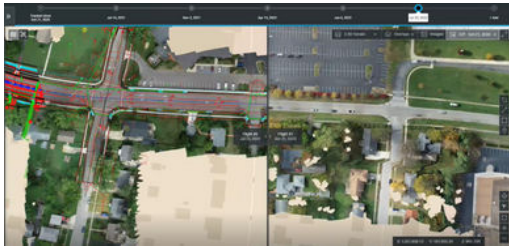


Additional benefits

- Digital diary and visual progress tracking



- Comparison of design versus Digital As-Built



- Project planning and tracking



- Time saved in the field

What's next for ATS Construction and Datumate?

ATS Construction is now down to the last half mile of work on the Clays Mill Road project and the current goal is to complete it by December 2022. In addition to using DatuBIM consistently across the lifecycle of this project, the company also uses it to monitor and track stockpiles and for multiple neighborhood and site development infrastructure projects.

Stay tuned to learn about additional ATS Construction projects that benefit from data construction analytics and digital management.

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construction
site?

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