

Apex Engineering Transforms Project Locationing with **OnStation**

North Dakota firm enhances efficiency and safety on complex highway projects

Precise stationing is critical in heavy highway construction, ensuring proper placement of road features, materials, and utilities, directly impacting project quality and safety. Moreover, precise stationing is essential for effective communication among team members, reducing errors and potential costly rework that can significantly impact project timelines and budgets. Apex Engineering faced this challenge head-on during intricate interstate projects in North Dakota, transforming their approach with OnStation's digital solution.

The Challenge

Brent Muscha, PE, PTOE, an Associate at Apex Engineering, pinpointed the issue: "How many times are you on a project and you need to figure out what station you're at...and it's just not readily available?"









Apex grappled with:

- Multiple alignments and ramps on expansive projects
- Constant traffic flow impeding traditional surveying
- Unavailable surveyors at crucial moments
- Removed or obscured physical markers

The Solution

Apex adopted OnStation, transforming smartphones into powerful locationing tools for on-site personnel. Workers and project managers directly accessed imported CAD files and design layers through the app on their mobile devices, creating a digital twin of their project sites accessible right from the job site. This allowed team members to instantly locate themselves and critical project elements with precision while in the field.

OnStation enabled Apex to:

-  Instantly determine stations using GPS
-  Drop custom-icon pins for project elements
-  Capture automatic geotagged photos with station data
-  Automatically measure areas and distances for projects, right in the app
-  Seamlessly toggle between alignments (e.g. mainline, ramps, bridges) for accurate referencing
-  Share real-time data project-wide, including photos, measurements, and chat messages
-  Find precise station/offset coordinates, mile markers, and linear references with a single tap
-  Chat with crew and supervisors directly in the app

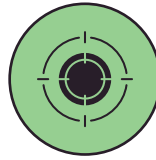
"We started using it on our phones," shared Levi Heller, assistant project manager with Apex. **"We can also run it on iPads, which is handy."**

Game-Changing Results



Safer Operations

Get precise locations at a glance - no dangerous site crossings required.



Reliable Accuracy

Get locations for everything from site orientation to detailed measurements.



Cost Savings

Cut surveying costs and improve workflow efficiency on interstate projects.



Better Documentation

Time and stationed photos and notes provide clear, undisputed project records.



Better Collaboration

Connect office and field teams with real-time updates and in-app chat.

Industry-Wide Impact

OnStation is now used by 12 different DOTs across the United States, with over 1,400 projects integrated into the platform. Its versatility in displaying various coordinate systems (Station/Offset, Mile Marker, and Linear Reference System) makes it adaptable to diverse project types and regional preferences.

For Apex, OnStation transformed project management by providing instant access to crucial locationing data, resulting in streamlined workflows, enhanced safety, and improved project outcomes. From bidding to closeout, OnStation's user-friendly interface and powerful features make it a comprehensive solution for construction teams of all sizes.

Apex Engineering's experience demonstrates how digital stationing addresses longstanding industry challenges, paving the way for more efficient, safer, and more accurate project execution in heavy highway construction.



Ready to transform your project management?

Start your risk-free 30-day trial today

+1 (877) 641-1188

www.onstationapp.com

info@onstationapp.com