

# WJH Engineering

## Working at Peak Efficiency

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### SUCCESS STORY

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### THE CHALLENGE

With an ever-increasing client list across diversified fields and a technologically advanced staff that has decades of CAD and civil/survey design experience, ensuring that WJH technologies are fully optimized and running at peak efficiency was a major concern for Walter Hopkin, founder and President of WJH Engineering. His talented staff had pieced together best practices, templates and design processes from their decades of experience, but Mr. Hopkin saw the need to streamline internal standards to make jobs run faster, easier, and with the best possible output for WJH clients.

### THE SOLUTION

WJH Engineering is one of the fastest growing Civil, Surveying, and Forensic engineering firms in the Garden State. Focusing primarily on commercial and residential projects, WJH Engineering has built an impeccable reputation throughout New Jersey as a highly experienced and reliable design firm. With a heavy focus on improving design through advanced technologies, WJH Engineering uses Autodesk AutoCAD Civil 3D and all related survey and Autodesk AEC Collection tools to provide better outcomes for clients on all their projects.

WJH Engineering contracted with ZenTek Consultants for the purposes of taking their existing AutoCAD Civil 3D standards for both their civil design and survey group and developing a full set of templates for various types of work for both groups. WJH Engineering required a consistent presentation, naming and output from multiple Civil 3D display and label styles across the entire spectrum of Civil 3D functions. In particular, Mr. Hopkin



needed to ensure that all their project output had the same WJH “feel and look” so that their presentations would be identifiable as WJH Engineering products, from survey base maps to final construction documents.

To achieve those goals, the project required full development of layer structures, labeling and dimension defaults, and the development of Civil 3D specific styles and lists for items like pipe parts libraries, descriptor keys, and symbol libraries. WJH Engineering had four (4) very specific needs that had to be met on this project:

- A civil design master template that generated simple, consistent output.
- A surveying master design template that generated simple, consistent output.
- A standardized user profile to ensure consistent pathing to company standards.
- Civil 3D training for design and survey staff on design processes using the newly developed standards.

Following a detailed Needs Assessment process and a review of WJH example projects to determine the specifics of their needed output, ZenTek Consultants staff set to developing the master templates required, as well as the new layering systems, labeling controls, and full array of Civil 3D styles that would meet the needs of WJH Engineering. This project also included the update and integration of standard WJH borders and project scales into each template, and a development of full AutoCAD Civil 3D gravity and pressure pipe design system defaults. On the survey side, ZenTek worked with WJH surveying staff to develop a full list of over fifty (50) Descriptor Keys with associated layering, symbols, and development of point groups to organize data upon point import/creation. A standardized profile (.ARG) file was also developed and integrated into the users’ desktop AutoCAD Civil 3D icon to ensure consistent access to standards and printing paths on the WJH network.

WJH Engineering also wanted additional training on both the civil and survey design processes, along with ongoing support for their staff on design-related issues and technical structures in the AutoCAD Civil 3D environment. To accomplish this, ZenTek Consultants included two custom training classes for their design/survey groups, and a pre-paid technical support program for WJH Engineering staff.

Once the newly developed AutoCAD Civil 3D Standards were implemented and their staff was trained on both the use of their standards and additional advanced AutoCAD Civil 3D processes, WJH Engineering saw a distinct improvement in project delivery times and quality of output on all their projects. Their talented design staff has continued to work hand-in-hand with ZenTek to add more to their initial standards and have continued to renew their support contract several times, to ensure they keep an open source of support for their users. Additionally, WJH Engineering and ZenTek have developed an ongoing partnership where regularly scheduled “lunch-and-learn” type trainings have become a preferred method of training and a process for developing and enhancing design/drafting workflows.

*“ZenTek has been a valuable partner in the development and growth of WJH Engineering. I would highly recommend them to any company - regardless of size.” - Walter Hopkin*

