

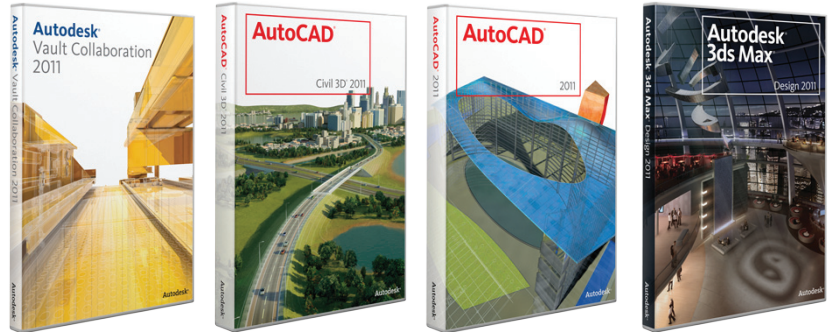
Top 10 Reasons to Add Vault Collaboration to Your Civil 3D Workflow

Bring the Civil Design Team Together Like Never Before

Help maximize return on your company's investment in design data with Autodesk® Vault Collaboration. Vault Collaboration helps planning, design, and construction teams manage civil engineering projects. By centralizing the storage of all engineering data and related documents, you can reduce time organizing files, avoid costly mistakes, and more efficiently release and revise designs. As product designs evolve and become more complicated, the Autodesk® Vault Collaboration protects designers and engineers from unintentional overwriting of each other's data. In addition, the data management software's revision process can be quickly deployed or tailored to unique requirements.

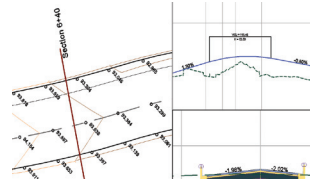
1 Autodesk Integration

Autodesk® Vault Collaboration software is tightly integrated with Autodesk design applications. Deep integration helps streamline data management associated with civil engineering or multidiscipline projects—from planning through design and construction—and can help save time and improve data accuracy.



2 Purpose-Built AutoCAD Civil 3D Data Management

Civil engineers need solid tools for sharing AutoCAD® Civil 3D® elements between team members. Autodesk Vault Collaboration has purpose-built data management tools for managing point, terrain, alignment, profile, and pipe information among Civil 3D users. This offers the team more control and flexibility for building the project model and producing final construction deliverables.



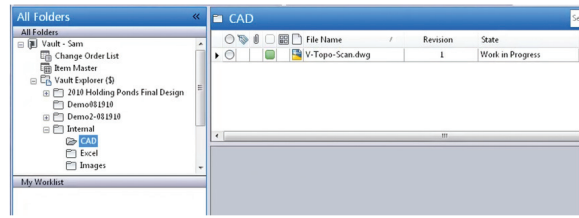
3 Simple Administration and Configuration

Autodesk Vault Collaboration helps IT managers to maintain control over the digital information, deciding which groups can see, read, and edit all of the data and documents that go along with a project—including Microsoft® Word documents, imagery, drawings, and the Civil 3D model. Autodesk Vault Collaboration employs Windows® Authentication technology, so users are managed through the Windows Security model that engineering offices may already have in place. Autodesk Vault Collaboration provides intuitive administrative tools to manage the Autodesk® Vault server, helping users experience improved uptime.



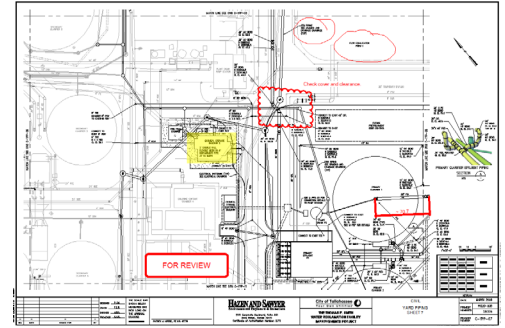
4 Customizable Standards for Every Part of the Project Lifecycle

Civil engineers want to spend their time analyzing design alternatives, not worrying about following standards or how to share their data. With Autodesk Vault Collaboration, company workflow standards and naming conventions are applied automatically to every file.



5 Status and Review Information for Project Managers

Autodesk Vault Collaboration provides project managers with robust reporting and analytics tools so they can keep up to date with project status. Easy review and markup of project drawings, utilizing system-generated DWF™ files, can give project managers and other non-CAD users a view of the current model and an opportunity to provide... ongoing feedback.



6 Simplified Project Team Collaboration

Team members can work on the project without overwriting each other's data, thanks to multiuser functionality. Team members check out a design before making modifications, and then check it back in when they are done. This collaboration helps users to better balance resources, speed projects to completion, and meet tight deadlines.

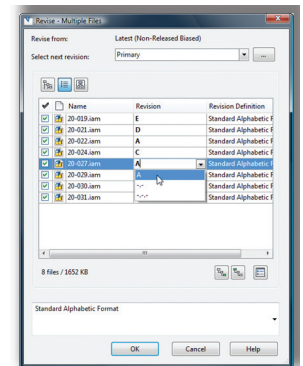
Category Name	File Name	Revision	State	Created By	Checked
Base	Cross Sections.dwg			Administrator	4/21/20
Production Sheets	Details.dwg	A	Concept	Ed Engineer	6/15/20
Production Sheets	Plan & Profiles 1.dwg	B	60% Complete	Ed Engineer	6/15/20
Production Sheets	Plan & Profiles 2.dwg	C	60% Complete	Ed Engineer	6/15/20
Production Sheets	Plan & Profiles 3.dwg	D	60% Complete	Ed Engineer	6/15/20
Production Sheets	Plan & Profiles 4.dwg	C	60% Complete	Ed Engineer	6/15/20
Production Sheets	Plan & Profiles 5.dwg	B	60% Complete	Ed Engineer	6/15/20
Base	Plan & Profiles.dwg			Administrator	6/4/200
Base	VFG - FISH POND ROAD...			bartelj	4/18/20

7 Find Data Quickly

Team members can use a range of methods, such as saved searches and shortcuts, to find and organize data. Autodesk Vault Collaboration software helps minimize the time it takes to find information, so users can spend more time designing and less time searching for data.

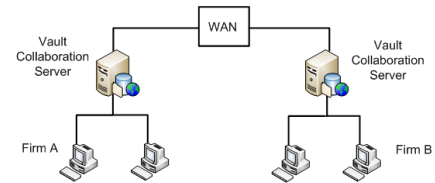
8 Revision Management

Audit and track the revision history of data files from a single location. Help reduce the chance of design and construction errors by securely releasing and tracking files throughout the project lifecycle, helping make sure that team members access only the correct revision of data. As the project evolves, revisions mark important milestones, which helps make it easier to revert back to a previous submittal and keep track of design changes.



9 Scalability for Multiple Sites and Large Workgroups

Whether an engineer is collaborating with a branch office on the other side of the world, an architect at an outside firm, or simply a team member across the room, Autodesk Vault Collaboration helps facilitate data management. Data replication helps everyone to have the most up-to-date versions of the project.



10 Batch Plotting Tools

Autodesk Vault Collaboration provides batch plotting tools to support the printing and plotting of all project-related documentation. Create intelligent plot lists to help keep track of documentation sets, print settings, and number of sheets to print for all documents within the project, including data such as DWG™ sheets, PDFs, Microsoft® Excel® spreadsheets, and Word documents.

