Architecture Engineering & Construction Collection

Connected workflows for road & highway projects with the AEC Collection

Create with ease

Create high-performing and resilient infrastructure with a set of BIM and CAD tools that support conceptual and detailed design through to construction.

Explore what's possible

Optimize infrastructure projects with integrated analysis, generative design, and visualization and simulation tools.

Build with confidence

Improve predictability in the field with tools that maximize constructibility and project coordination.

Business Benefits

Win more work
Access tools that enable you to bid for, win, and deliver more business.

Improve operational efficiency
Automate tasks to reduce design time and improve handoff with streamlined data exchange.

Deliver more sustainable projects
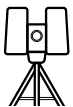Deliver projects that exceed performance requirements.

Reduce risk
Increase stakeholder buy-in, while reducing errors and rework.

Capabilities

Using a connected BIM workflow, road & highway designers and engineers can more seamlessly conceive, model, optimize, and coordinate their designs with AEC professionals across disciplines and throughout the lifecycle of a project.

Reality Capture

Computational and Generative Design

Conceptual Design

Virtual Reality

Visualization

Documentation

Detailed Design

Multidiscipline Coordination

AUTODESK

What the tools in the AEC Collection can do for you

AUTODESK® CIVIL 3D®
Create detailed road and highway corridor models to reflect plans, sections, and quantity estimates.

AUTODESK® INFRAWORKS®
Visualize existing conditions and create design concepts in their contextual environment and link detailed designs to the model.

Survey

ReCap Pro
Design in-context with reality-capture and 3D scanning software and services, precisely measuring existing conditions.

Planning & Conceptual Design

AutoCAD
Speed documentation, share ideas, and explore 2D and 3D conepts.

InfraWorks
Visualize existing conditions and create design concepts in their contextual environment

3ds Max
3D modeling, animation and rendering software for design visualization and engaging virtual reality experiences.

Detailed Design

Revit
Intelligent model-based tool to plan, design, construct, and manage infrastructure with support for multidiscipline collaborative design processes.

AutoCAD
Speed documentation, share ideas, and explore 2D and 3D concepts

Vehicle Tracking
Transportation analysis and design software built for vehicle swept path analysis.

InfraWorks
Visualize existing conditions and create design concepts in their contextual environment

Project Explorer
Project Explorer efficiently navigates, interrogates, and reports on Civil 3D design models.

Dynamo
Automate tasks and workflows in a visual programming environment.

Grading Optimization
Grading Optimization automates surface terrain grading workflows for site design.

Documentation

ReCap Pro
Design in-context with reality-capture and 3D scanning software and services, precisely measuring existing conditions.

Navisworks
Integrated data from multiple sources to facilitate whole project review, coordination, and quantification.

Revit
Intelligent model-based tool to plan, design, construct, and manage infrastructure with support for multidiscipline collaborative design processes.

Project Explorer
Create and customize detailed reports and summaries for corridors surfaces and other Civil 3D elements.

AUTODESK® DOCS
Simplify team collaboration and data management with a cloud-based common data environment

"The advantages of using Autodesk software go beyond just a common platform...**its model-based design approach speeds up everything** from the creation of alignments and surfaces to volume and earthwork calculations. And since the design model is dynamically linked to the quantities and documentation, **we save considerable time when making design changes**."

-Jessica Hunter
Project Development Engineer
New Mexico Department of Transportation

Learn about AEC Collection at autodesk.com/aeccollection

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