

[473422]
Autodesk Construction Cloud for Civil

Taylor Dean
 Autodesk Construction Solutions
taylor.dean@autodesk.com

Robert Walker
 Autodesk Construction Solutions
robert.c.walker@autodesk.com

Learning Objectives

- Building Connected (BC Pro key workflows)
- Assemble key workflows (QTO, progress tracking)
- BIM360 key workflows
- PlanGrid key workflows

ACC for Civil

For road and highway construction subs and GCs, Autodesk Construction Cloud is a construction software offering for teams to ensure quality, cost and schedule certainty because Autodesk Construction Cloud is the easiest to deploy, adopt and use and it was built by the global design leader on an intelligent lifecycle platform.

Autodesk Construction Cloud supports infrastructure teams across the construction lifecycle, so they can better connect our world for the future. Autodesk Construction Cloud offers innovative ways of quantification, bidding, qualification, project management, and field collaboration through our full set of tools and workflows.

Whether in takeoff, cutting rough grade or potholing, Autodesk Construction Cloud connects teams, workflows, and data, helping agencies, contractors, consultants and subs win more work, ensure quality, reduce risk, deliver projects on budget and on time, and improve safety performance.

<u>BC Pro</u>	<u>Assemble</u>	<u>BIM 360</u>	<u>PlanGrid</u>
-------------------------------	---------------------------------	--------------------------------	---------------------------------

Building Connected Pro

BC Pro makes it easy for general contractors and owners to find and qualify the right subcontractors, send custom bid invites, identify the best bid, and centralize communication. Subs can easily be discovered by GCs and owners through The Builders Network, the only real-time crowdsourced network of construction professionals' can leverage our network of over 1 million builders across North America to quickly discover the best builders for their projects and reduce project risk.

- **Custom Bid Forms & Bid Leveling:** GCs can compare bids side-by-side, plug numbers to easily edit values, and instantly collaborate with team members.
- **Find the right subs.** Access the largest network of subcontractors in North America and find them based on specific needs. Compare bids side by side, plug numbers to easily edit values, and collaborate to get results faster and more efficiently. ([Building Connected Pro](#))
- **Custom Bid Forms & Bid Leveling:** Compare bids, plug numbers to easily edit values, and instantly collaborate
- **Vendor qualification:** Qualify subs with automated risk assessments.
- **Unlimited bid invitations:** Access the largest network in construction
- **Historical cost data:** Easily keep track of historical costs
- **Relationship tracking:** Organize and track institutional knowledge

Assemble

Assemble empowers construction professionals to save time, increase accuracy and improve collaboration. Conditioning, running queries and connecting BIM data to key workflows including design review, takeoff, estimating, change management, value engineering, and schedule management helps reduce project risk. By extracting an entire model inventory in minutes, we provide project teams with quick access to comprehensive model inventories that offer greater efficiencies to their work.

- **Model-Based Takeoff:** Instant access to complete project inventory to easily organize project data by user defined parameters such as bid-package, locations, phase, WBS or Work Activity codes.
- **Condition the Model:** Easily create bids, scope, and views with your company's coding system.
- **Change Management:** Visualize and quantify design changes throughout preconstruction efforts that affect costs and schedules.
- **Access Models & Views:** Provide the entire project team with access to "Conditioned" BIM in the cloud.
- **Work in Place Tracking:** Models leveraged in the field for work in place tracking and schedule sequencing and coordination discussions.

BIM 360

Break down data silos. Connect the design and construction teams through a common data environment. No longer require teams to email and download files to share between teams and construction phases. Instead, teams can access the same data in one single location, leading to less wasted time or lost data and greater productivity and collaboration. ([BIM 360 Docs](#))

- **Cloud based:** Delivers team anywhere, anytime collaborative access to the entire project. Web and mobile access to all project plans, models, and documents
- **Permissions:** Role-based access control, version control, and set linking to Support for approval processes and workflows
- **Efficient RFIs:** Easily create, review & approve RFIs with easy-to-configure workflows on both web and mobile.
- **Submittal management:** Real-time visibility into statuses with permission controls
- **Checklist templates:** Standardize and digitize their quality & safety programs keeping everyone involved and able to perform inspections on their mobile device and report problems in real-time.
- **Personalized daily views:** Action items to help teams prioritize work each day, identify teams that need attention, and keep them up to date on the project status.

PlanGrid

PlanGrid is a mobile-first, field collaboration software, which gives contractors, owners, and architects unprecedented access to information in real-time, facilitates effective collaboration, and provides actionable insights that improve predictability on the jobsite.

- **Easy to deploy, adopt & use.** By giving the field the plans in their pocket, on a mobile device, Autodesk Construction Cloud relieves infrastructure industry pain of driving distances between job sites and communicating/collaborating with different trades and disciplines.
- **Build it right the first time.** Quick access to the right information means fewer mistakes and avoiding costly rework that happens when building from outdated plans. ([PlanGrid](#))
- **Online and offline compatible.** Offline/mobile capabilities are more relevant than any other segment. Roadwork is often done in remote areas, but teams still need the reliability to access everything in an instant. With ACC products, road

and highway construction teams don't have to worry about their mobile connection. ([PlanGrid](#))

- **As-builts for maintenance and claims.** DOTs budget billions of dollars for highway maintenance every year. With Autodesk Construction Cloud, DOTs create a historical record that lives on after each project, creating a library of all projects, housed in one central location. Documents, forms, submittals, revisions, photos and more all stored in one location. With historical records, firms not only save money on maintenance but easily respond to legal claims and avoid costly litigation. ([BIM 360 Build](#) & [PlanGrid](#))
- **Fast sheet distribution with version control:** Upload thousands of sheets and distribute them in minutes. Plan revisions are automatically inserted in order, so you're always working from the latest set - without losing access to project history.
- **Sheet compare and markups:** Easily overlay different versions or unrelated blueprints to quickly spot differences. Log quick observations from the field and markup your plans with notes and progress photos that can be pinned to drawings and instantly synced with the entire team.
- **Tasks and punch lists:** Drop punch list items and manage them end-to-end, right from your phone. Pin issues to a specific location, whether they're defects, inspection notes, or design coordination, and collaborate to resolve them in record time.
- **Project management:** Track and manage the submittal review process from start to finish, and create RFIs where they occur, right in the field.

ACS Blog Posts

[Improving America's Infrastructure Starts with Laying the Groundwork for Innovation](#)

[Paving Transformation in Road & Highway Construction](#)

ACS in the press

[Autodesk Improves Efficiency at Superior Bowen](#)

[What to Expect with Infrastructure & Public Projects in 2020 & Beyond](#)