How We Build: Barton Malow’s Experience with the Autodesk Construction Cloud

Brian Popis
Senior Business Transformation Engineer | Barton MALow
How We Build: Barton Malow’s Experience with the Autodesk Construction Cloud

Brian Popis
Senior Business Transformation Engineer
Barton Malow

• 5+ years of experience in construction software deployment, especially the Autodesk Construction Cloud
• Committed and passionate about the advancement of technology in our industry
• Thought leader for standard and best practices in all construction markets
• Purposeful leader of educating new hires and interns surrounding our software solutions
Presentation agenda

• Barton Malow and the Autodesk Construction Cloud
• Deep Dive: Our Use of Autodesk Construction Cloud
• Wrap Up and Industry Outlook
Barton Malow and the Autodesk Construction Cloud
Barton Malow and ACC

A Brief History

• Prior users of Building Connected, Assemble, PlanGrid, etc.
• Begin our implementation of BIM 360 in late 2018
• Ramp up usage through early 2021; begin implementation of Autodesk Build
• All new projects created in Autodesk Build as of November 2021
### Core Technology

<table>
<thead>
<tr>
<th>Technology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemble</td>
<td>Condition, query and connect BIM data to key workflows including design reviews, takeoffs, estimating, change and schedule management.</td>
</tr>
<tr>
<td>BuildingConnected</td>
<td>Save time and increase accuracy in bidding and risk management workflows with the largest crowd-sourced construction network.</td>
</tr>
<tr>
<td>BIM 360</td>
<td>Connect project teams and data to help reduce risk, improve quality, and deliver projects on time and budget.</td>
</tr>
<tr>
<td>PlanGrid</td>
<td>Simple, powerful construction software that empowers teams to collaborate efficiently and access the record set from any device.</td>
</tr>
</tbody>
</table>
Deep Dive: Our Use of Autodesk Construction Cloud
WHAT IS IT USEFUL FOR?

- Embedded analytics
- Automated insights
- Easy project access
- 3rd party integrations
Autodesk Build - Team Training & Onboarding

- OnDemand, Virtual training
- Persona-based trainings
- Accessible by internal and external team members
- Heavy emphasis on training programs for interns and new hires
- Training incorporated into core job responsibilities
- Spotlight on Digital Builder Podcast with Eric Thomas
Autodesk Build- Insights & Data

In App Analytics

- High level metrics
- Construction IQ
- Automated machine learning and analytics to instantly provide project information
Autodesk Build - Insights & Data

Additional Insights:
- Granular metrics
- Project specific KPIs
- Integrated with ACC
- Shareable outside ACC
- Pin back to Custom dashboard
Autodesk Build – Files and Sheets

HOW BARTON MALOW USES IT:

- Consolidate information and setting up standard templates and workflows to maximize efficiency
- Management of all 2D and 3D data in one place
- Issue tracking and resolution directly on project documents
- Comparison of different documents of versions of the same document
Autodesk Build - Insights

HOW BARTON MALOW USES IT:

- Delivers unified project data, analytics, and predictive insights
- Use predictive risk data to improve project efficiency
- Assess trends and patterns in project data to identify gaps and problems
  - Design
  - RFIs and Submittals
  - Safety
  - Quality
- Customize, schedule and run project reports based on project needs
Autodesk Build – Submittals and RFIs

HOW BARTON MALOW USES IT:

• Initiation, management, and responding to RFIs and Submittals throughout the project life-cycle

• Creation, maintenance, and storage of project meeting minutes for in a unified platform

• By pinning RFIs to project drawings and models, team members in the office and field can be aligned on outstanding questions in design
Autodesk Build – Issue Management

HOW BARTON MALOW USES IT:

• Perform construction quality, safety, punchlist, and equipment commissioning workflows – all from a smartphone or tablet device
• Reviewing and completing of checklists based on different project needs
• Create, assign, and track open action items to track work to complete, items to adjust, and more
• Run reports of outstanding open issues and checklists for all project team members to view and address
Autodesk Build – Quality and Safety Checklists
Pype Autospecs and Autodesk Build

HOW BARTON MALOW USES IT:

• Automatically turns specifications into searchable, shareable submittal logs
• Takes the time-consuming process of manually creating submittal logs and replaces it with a streamlined, automated process
• Submittal log can be exported to BIM 360 for assignment to subcontractors and review with architect/engineer
Pype Closeout and Autodesk Build

• Pype Closeout provides a single portal for closeout document collection, management, and compilation into a digital turnover package

• Subcontractors automatically receive timely and specific notifications to submit documents; can easily upload required docs directly into the Closeout platform for the Barton Malow project teams to review and approve.

• All final documentation for the project can automatically be packaged into a PDF turnover package
Building Connected

HOW BARTON MALOW USES IT:

• Send out invitations to bid projects and additional work in less than 10 minutes
• Manage and track the entire project bidding process from a unified online platform
• Evaluate subcontractor bids side by side
• Collaborate with subcontractors through Building Connected to efficiently produce results for project bids
• Reduce up front risk by viewing which subcontractors are qualified (project limit, EMR, etc.)
Wrap Up and Industry Outlook
Many clients are beginning to centralize processes with ACC
  • Automotive
  • Healthcare
  • Manufacturing

It is becoming more common for not only our processes to be hosted within ACC, but many other teammates on collaborative projects.
Questions and Answers?