

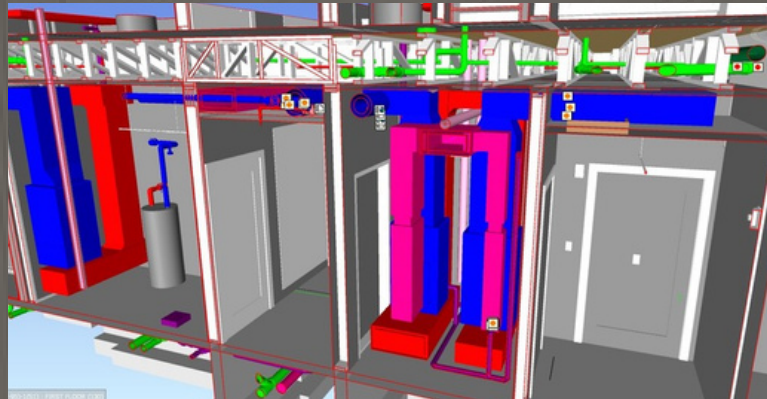
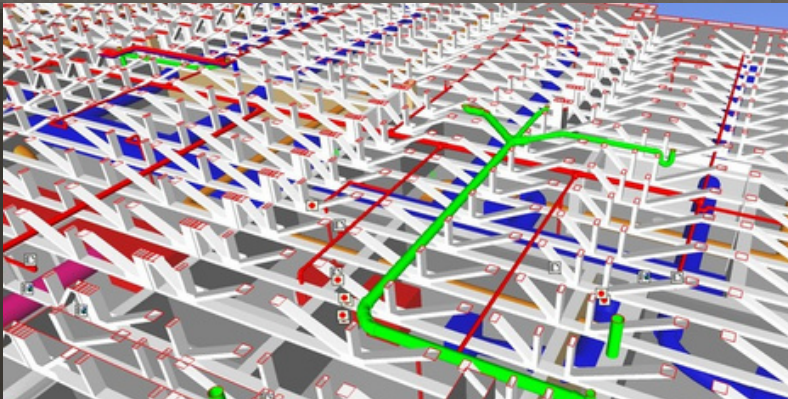
DIGITAL ENGINEERING (BIM)

Digital Coordination That Reduces Risk Before Construction

WoodCore's Digital Engineering services use CAD and BIM to transform design intent into coordinated, build-ready digital models. We bring together structure, MEP systems, prefabrication requirements, and construction realities into a single source of truth that supports informed decision-making throughout the project lifecycle. The result is better coordination, clearer communication, and reduced risk before construction begins.

WHAT WE DO

We develop intelligent 3D models for mass timber and hybrid projects, working alongside architects, engineers, fabricators, and contractors to align geometry, connections, penetrations, sequencing, and site logistics. Our BIM models support coordination meetings, constructability reviews, fabrication planning, shop drawings, lift planning, and 4D/5D analysis—helping teams identify issues early and move from design to installation with greater certainty.



CORE SERVICE AREAS

Integrated Modeling

BIM models aligned with fabrication, installation, and project coordination requirements. We integrate structure, MEP systems, panel layouts, penetrations, and connection details so the model reflects how the building will actually be built.

Constructability Reviews

Model-based checks to identify clashes, sequencing issues, and access constraints before they hit the field. We review interfaces between timber, MEP, and other structural systems, then provide clear, actionable recommendations to reduce RFIs, rework, costly field fixes, and on-site surprises.

4D/5D BIM

Linking model elements to schedule (4D) and cost (5D) to support more predictable delivery. We help project teams visualize erection sequences, understand labor and crane impacts, and explore how design and logistics choices affect budget and timeline.

HOW WE FIT YOUR TEAM



- A mass-timber-focused digital partner that understands both engineering and construction.
- Models and views tailored for architects, fabricators, GCs, and field crews—not just the BIM team.
- Better coordination, clearer communication, and data you can trust to move from design to install with fewer surprises.

DIGITAL ENGINEERING (BIM) WORKFLOW



Align & Set Up

- Review design intent and delivery model
- Define BIM scope, LOD, and coordination requirements



Model & Integrate

- Build Integrated 3D models of the project including MEP, Fire Protection, Light Framed Construction elements, and Mass Timber elements
- Align geometry with prefabrication, connections, and installation



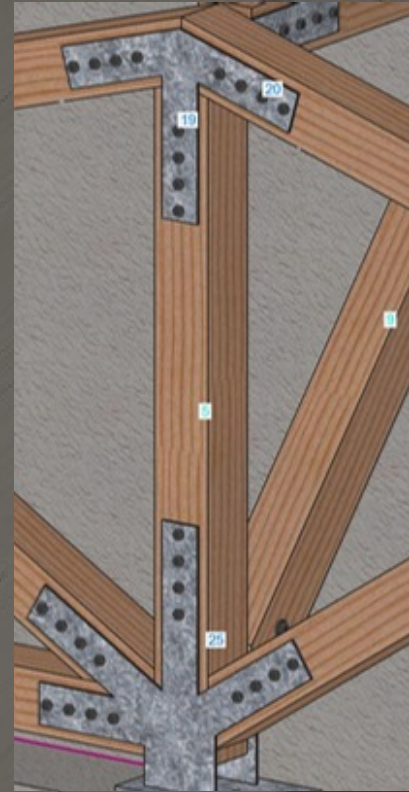
Review & Resolve

- Run constructability and clash checks
- Refine logistics, access, and penetrations in the model



Simulate & Deliver

- Link model to schedule and cost (4D/5D)
- Publish views, exports, and data for fabrication and field use

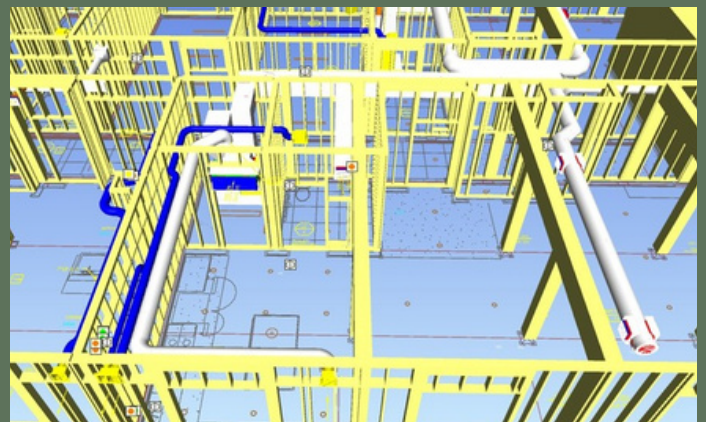


Our BIM models are not just visual representations—they are decision tools.

PROJECT HIGHLIGHT

Woodward Lofts | Harrisburg, PA 48 Affordable Senior housing units

WoodCore developed coordinated BIM models that aligned structure, MEP systems, prefabrication requirements, and installation sequencing. PA's 1st Hybrid Mass Timber PHFA Tax Credit Development project. BIM and early coordination is key to keeping the project on-track and on-budget.



ENGINEERING THE EXCEPTIONAL, BUILT FROM OUR CORE



Early Integration | Digital Precision | Build-Ready Certainty