

Improving Communication Across Construction Projects with Union Solutions

BIM AT UNION SOLUTIONS

At Union Solutions we utilize Building Information Modeling (BIM) to enhance communication in construction projects by providing visual representation, 2D/3D visualization, clash detection, improved coordination, data-rich information, visualization of project phases, and facilitation of stakeholder input. This integrated approach fosters greater transparency, collaboration, and efficiency, ultimately leading to better project outcome

Visualize Project Stages

BIM allows stakeholders to visualize the project at different stages of development, from conceptual design to construction and facility management. This capability helps stakeholders anticipate construction sequencing, identify potential challenges, and communicate project progress effectively.



30%

Improvement in project productivity



UNION SOLUTIONS



info@unionsolu.com



www.unionsolu.com



7040 Lakeland Avenue North, Suite #203a Brooklyn Park, MN 55428

COMMUNICATION CHALLENGES



Communication challenges among stakeholders in construction projects often arise due to fragmented communication channels and lack of clarity regarding project goals and requirements, leading to misunderstandings and delays in decision-making.

BIM AS A SOLUTION



BIM allows stakeholders to visualize the project in both 2D and 3D visualizations, offering a more intuitive understanding of complex designs. This immersive experience facilitates better communication among project stakeholders reducing the likelihood of misinterpretation or errors.



2D Overlay



3D Visualization



Enhanced coordination



Data-rich information

BIM PROJECT BENEFITS



Visual Representation

1

BIM provides a visual representation of the entire project, including architectural, structural, and MEPFT (Mechanical, Electrical, Plumbing, Fire Protection, Technology) components. This visual model serves as a common reference point for all project stakeholders, enabling clearer communication and understanding of design intent, construction sequencing, and spatial relationships.

Improved Coordination

2

BIM facilitates interdisciplinary coordination by enabling real-time collaboration among various project stakeholders. Teams can work concurrently on the same model, coordinating design changes and addressing conflicts collaboratively. This synchronized approach enhances communication and minimizes discrepancies between different trades.

Facilitation of Stakeholder Input

3

BIM facilitates greater stakeholder involvement by providing a platform for feedback and input throughout the design and construction process. Project stakeholders can review the BIM model, offer insights, and make informed decisions collaboratively, fostering a sense of ownership and alignment.