



AUTODESK UNIVERSITY 2015

CS11750

You OdySea This : How BIM Shaped an Owner's Vision into a Working Construction Model

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Learning Objectives

- Discover an innovative design-assist collaboration process between owner, architect, general contractors, and subcontractors.
- Learn how to use multiple Autodesk software programs during the preconstruction stage of any project
- Learn about the creation of constructability drawings generated from the construction model in self-perform projects

Description

Follow us on our journey as we work toward building an owner's vision into one of the most inventive aquariums in the country. We will show how BIM engineers can successfully work with owners, architects, general contractors, and subcontractors during the preconstruction phase of any project in order to coordinate scheduling and procurement, reduce requests for information, improve construction sequencing, and much more. This couldn't be possible if BIM Engineers didn't use multiple Autodesk, Inc., products, and we will demonstrate how these products' interoperability enabled us to successfully coordinate with the entire Project Team from inception to completion. These products combined enabled us to create a construction model that was not only used for coordination of all trades, but was also used to generate constructability drawings for the field. Watch as we demonstrate how to successfully create these drawings, and we'll also show how a unique collaborative process and Autodesk products can improve any project's return on investments.

Your AU Experts

Josh Molitor is a senior Building Information Modeling (BIM) engineer at McCarthy Building Companies, Inc. He received a BA in construction management from ITT Technical Institute in Tempe, Arizona. Josh specializes in managing MEP (mechanical, electrical, and plumbing) design processes through various methods of coordination and communication with the entire project team.

Arturo Aguilar is a senior Building Information Modeling (BIM) engineer at McCarthy Building Companies, Inc. He received a BA in construction management from ITT Technical Institute in Tempe, Arizona. Art possesses a solid understanding of concrete formwork, placing methods, processes and systems, and concrete/rebar design.

Project Background

Project Fun Fact

Precon Collaboration

Who are the main players?

BIM Kick-Off Meeting

BIM Execution Plan

Workgroup Meetings

Construction Review Process

Design Review Model (DRM)

What is a DRM, and who is involved?

How model is initially set up

What is used to finalize the DRM

Coordination with outside sources

Phoenix team is unique with its expertise

Construction Model (CM)

Difference between DRM and CM

How model is initially set up

Takeaways

Advantage of workgroup meetings

Co-locate with designers whenever possible

Invaluable relationships built between contractors, architects, and owners

