



Marine Professionals Since 1919

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“Mob And Demob, the Greatest Safety Challenges of a Project”

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Statistics

- 1 in 5 deaths among us workers is in the construction industry.
- Of the 42 annual crane-related deaths, around 60% involve a falling object.
- Fatal construction injuries are estimated to cost the U.S. \$5 billion each year in health care, lost income, reduced quality of life and lost production.
- The total annual cost of all construction injuries in the U.S. is more than \$11.5 billion.
- OSHA estimates that construction companies save \$4 to \$6 for every \$1 invested into safety programs.
- In 2019, construction workers **ages 25-34 were most likely to sustain an injury** on the job



Common Challenges

- Importing, exporting materials and equipment
- Management hazards



Import, Export of Materials and Equipment

- Cranes and numerous equipment running around
- Foot traffic
- Truck drivers
- New operators, unproven ability



Management Hazards

- Procurement of needed goods, networking
- Equipment showing up not being maintained properly or missing
- Most experienced talent being pulled
- Assignment overlaps/ keeping the crew focused on current task
- Networking, availability of goods
- Covid-19

Covid-19





Covid-19

- Early research suggests that construction workers are five times more likely than the general public to contract COVID-19, adding to the list of risks that we take to provide an essential service in building new structures. As with all other dangers faced by construction workers, the proper response involves increased awareness, training, regulation, and equipment.



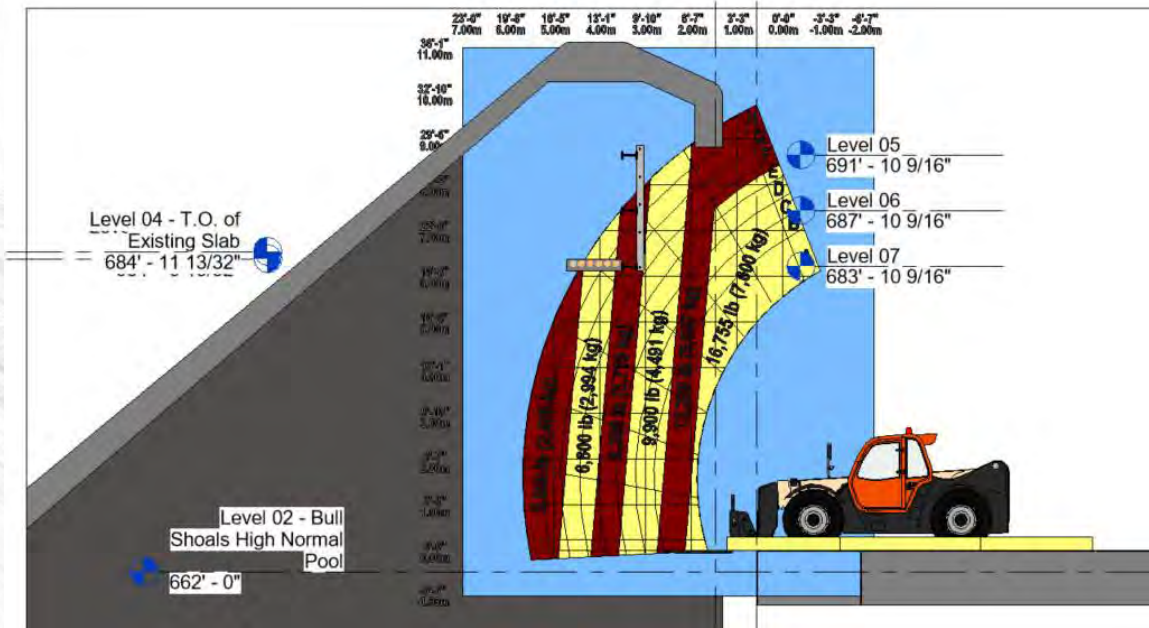
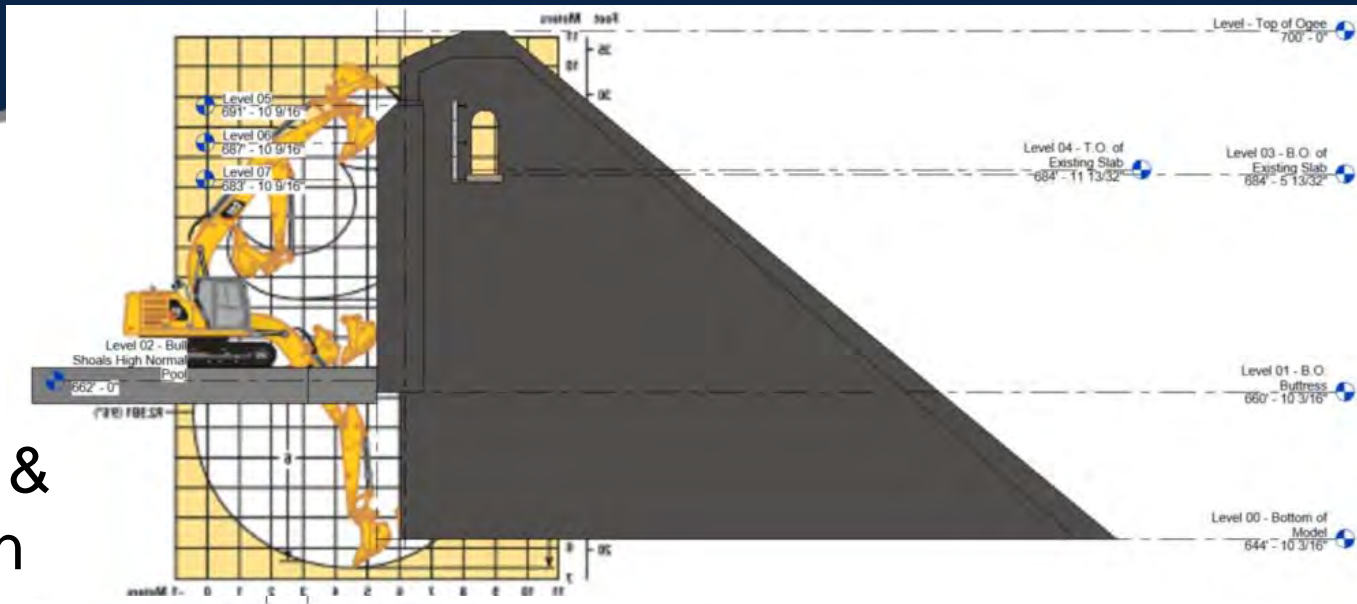
BIM and VDC

- BIM- Building Information Modeling
- VDC- Virtual Design and Construction



BIM and VDC

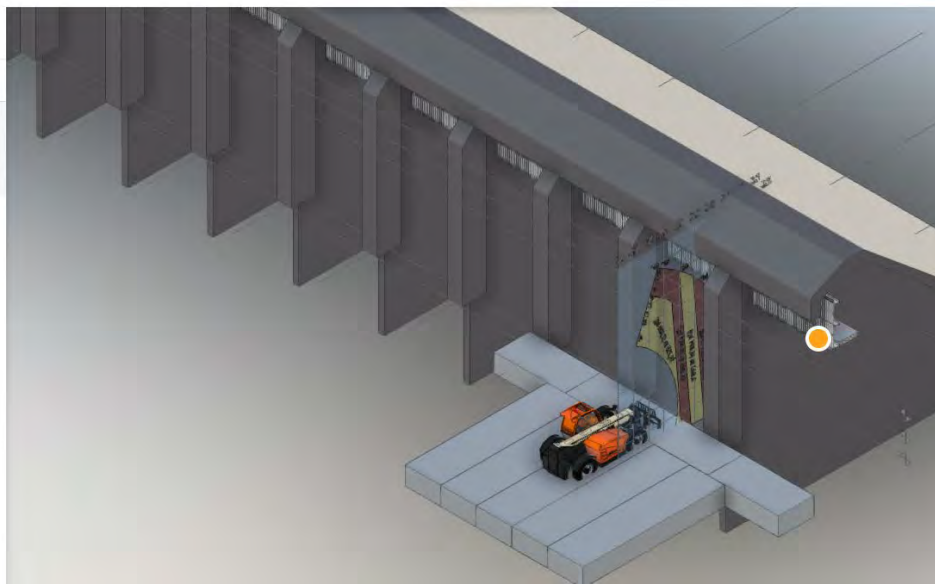
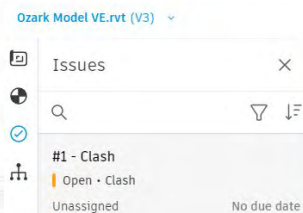
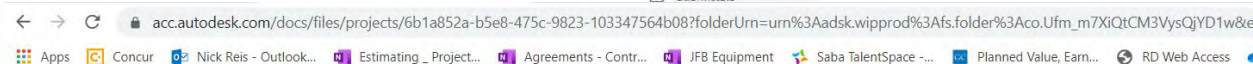
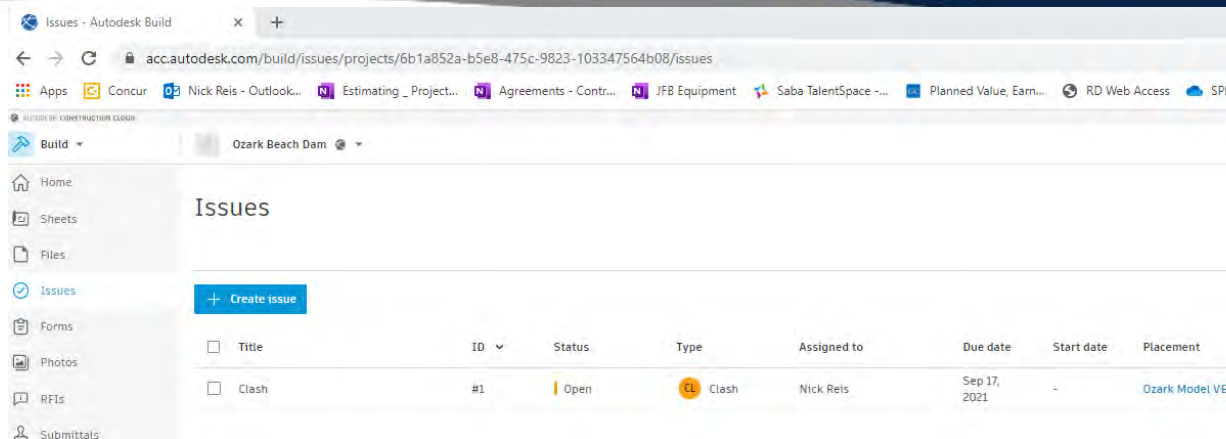
- Planning of Equipment during Bidding & Preconstruction





BIM and VDC – Field Implementation

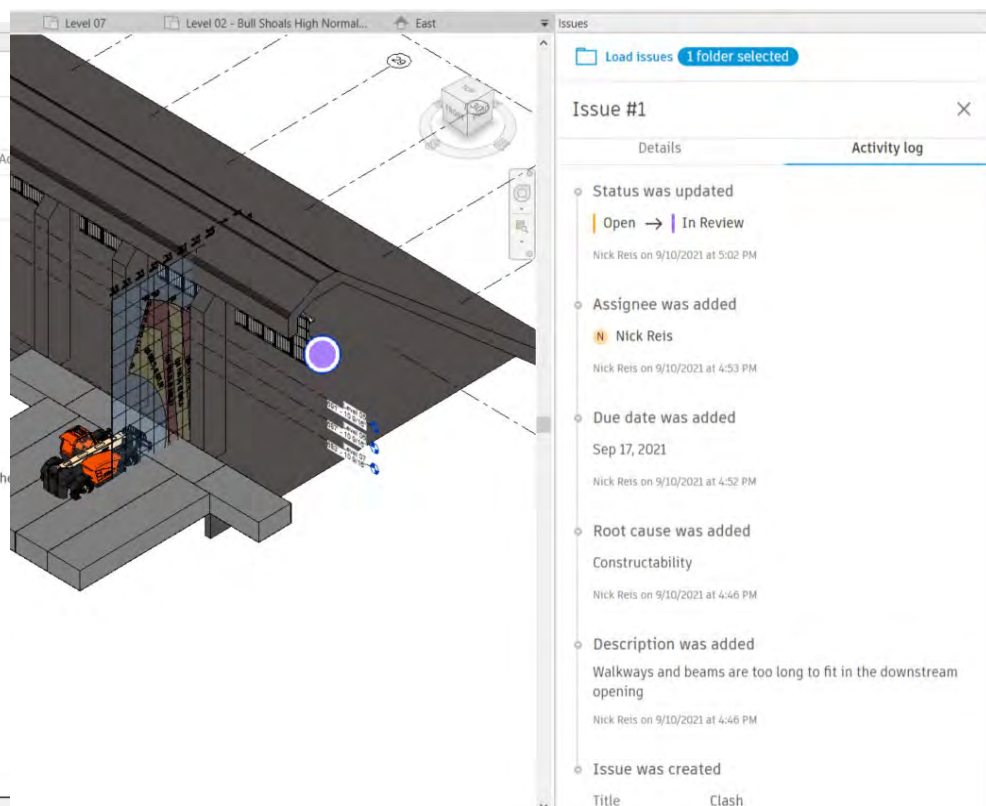
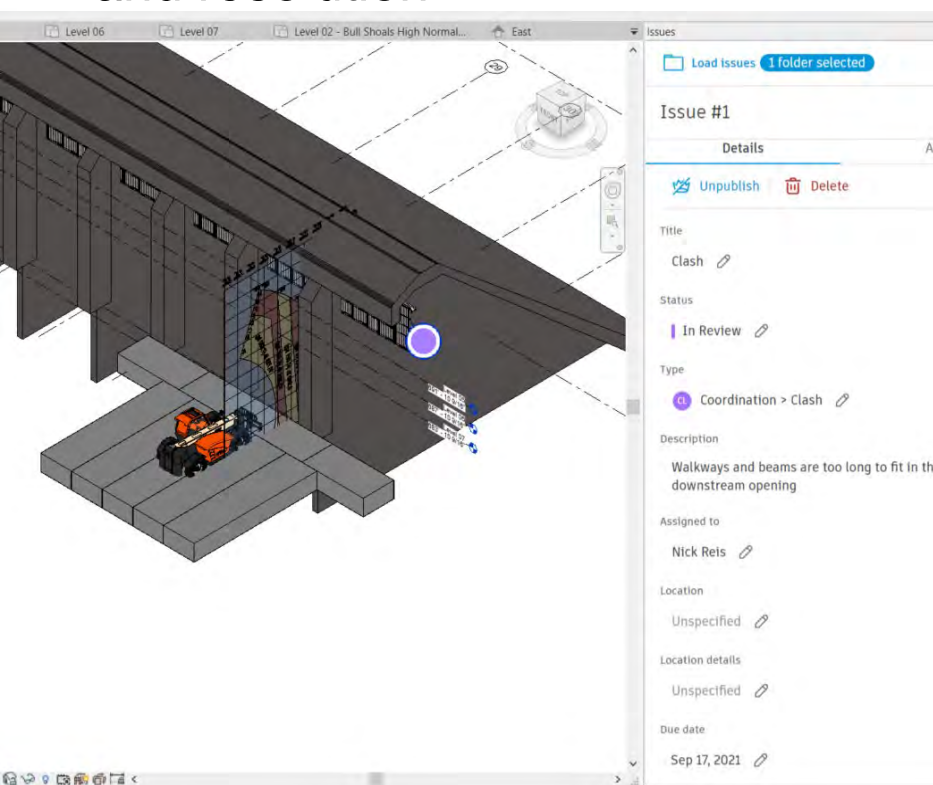
- Transmitting, tracking, and resolution of project issues through cloud models





BIM and VDC – Field Implementation

- Issues can be pulled into the modeling software for management and resolution
- Activity log is automatically created document activity on the dates





BIM and VDC – Field Implementation

- Changes or modification can be made to the model and pushed back to the field as needed
- Comparison can be run on the models to identify additions, modifications, and deletions

Revit Software

Switch Account • Project
J.F. Brennan • Ozark Beach Dam

Ozark Beach Dam / Project Files [View Online](#)

<input type="checkbox"/>	Name	Model Type	Modified Date	Modified By	Publish Status	Published Date	Published By	
<input type="checkbox"/>	Existing Ozark Model	Cloud Model	September 9, 2021 5:27 ...	nickr@jfbrennan.com	Update Available	September 8, 2021 3:48 ...	Nick Reis	...
<input type="checkbox"/>	Ozark Model VE	Cloud Model	September 13, 2021 7:22 ...	nickr@jfbrennan.com	Update Available	September 10, 2021 4:25 ...	Nick Reis	...

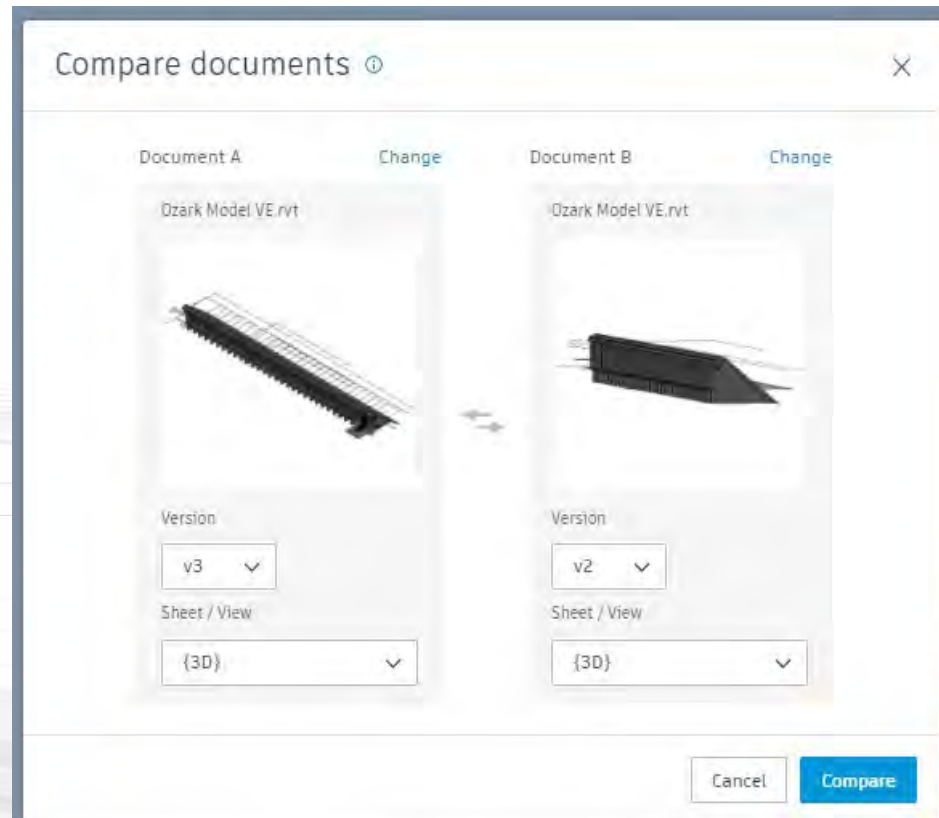


Autodesk Build/Plan Grid

Folders

For the Field [Upload files](#)

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<input type="checkbox"/>	Ozark Model VE.rvt		V3		21.9 MB	Sep 10, 2021 4:28 P...	NR Nick Reis	





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Thank You