

BIM Execution Plans

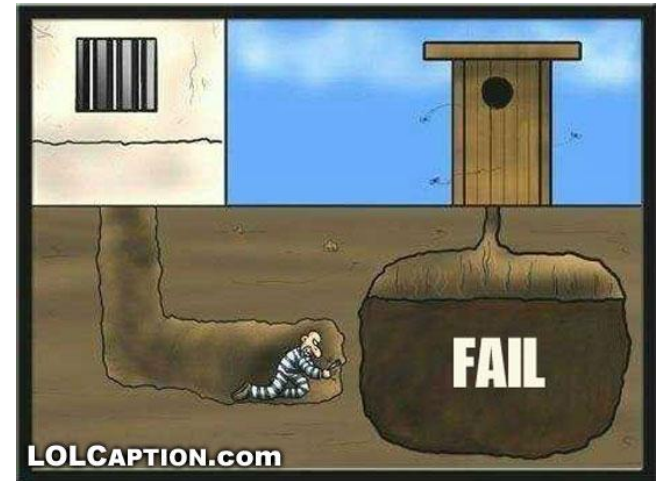
getting what you need from BIM

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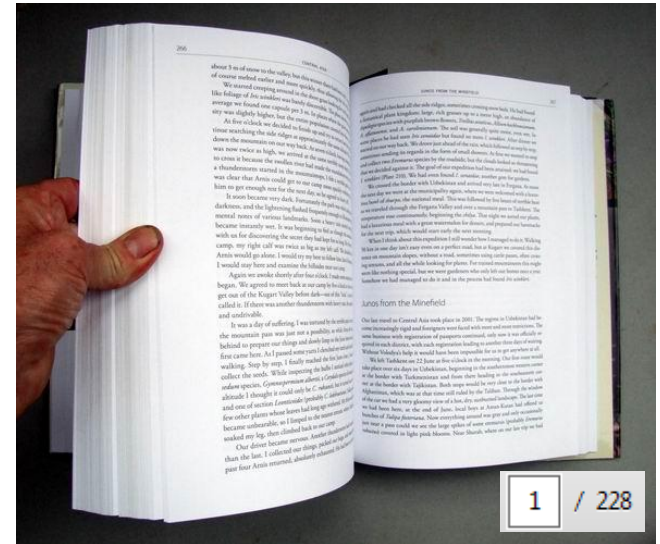
The purpose of a BIM Execution Plan (BEP)

- To define the BIM Project, including:
 - BIM Team
 - BIM Deliverables
 - BIM Software
 - BIM Schedule
 - Collaboration Process
 - Special Requirements
- Without a plan you won't know where you're going...



Tips for young players...

- A BEP is not a “HOW TO” document...
- Keep it concise!
- It's a living document, keep it updated
- No Silos, communicate and collaborate
- You are not the first one to write a BEP, start with some of the many BEP's available online... (google search)
 - <http://bim.psu.edu/>
 - <http://www.cpic.org.uk/en/cpix-on-line-tools/cpix-bim-strategy-templates/cpix-bim-execution-plan.cfm>
 - <http://www.aaronmaller.com/BeckFiles/BIM%20Execution-Current-Integrated.pdf>
 - http://web.mit.edu/facilities/maps/MIT_BIM_execution_plan.pdf
 - <http://bim.natspec.org/index.php/resources/bim-management-plan-templates>



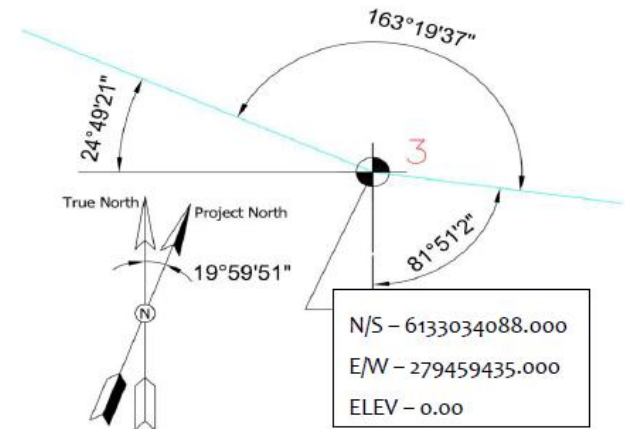
Key information in a BEP

- What are the deliverables?
 - Clash Detection, 4D Sequencing, QTO, Fabrication?
 - Knowing what the deliverables are required helps define the information that needs to be embedded and the format of that information.
- What software is everyone using?
 - This will help define how we get information from one software to another... IFC, NWC, DWG?
- Model Element Authors & Required Level of Detail
 - Highlight changes in MEA and develop a workflow around the transfer
 - It is okay to have “split responsibility”, but define what the split is. EG: Someone may be responsible for the setout of an element, but someone else may be responsible for its design/properties.
- Coordination Checks
 - Internal checks & all discipline checks

STAGES:		
Model Elements	LOD	MER
Stairs:		
Structural		
Finishes		
Structural Area Reinforcement		
Structural Beam Systems		
Structural Columns		
Structural Connections		
Structural Foundations		
Structural Framing:		
Purlins / Girts		
Girders / Rafters		
Concrete Beams		
Structural Internal Loads		
Structural Loads		
Structural Path		

Don't miss...

- Coordinate Systems
 - Shared Origin location (specify the coordinates of 2 known points)
- If you have multiple companies work in Revit:
 - Workset Protocols (very important on large projects)
 - Line Weight Protocols
 - File Name consistency
 - Copy/Monitor requirements
- If you are using Navisworks, required export settings or establishing a “Navisworks” view
- If you are using IFC are you using the BIM Collaboration Format (BCF)?
 - Built into Tekla, Solibri, Add-ins available for Revit – think Navisworks switch back but multi-discipline and built in commenting/tracking



Workflow diagrams are also useful

- IMAGE REMOVED



Thank you!

