



Total Building Design

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Reflection

Participating in BIM/IPD Thesis has helped prepare me for design team interactions that occur in the industry. This experience has expanded my understanding of the design process beyond my own discipline and allowed me to appreciate the impact that various systems have on one another. While coordinating designs and working in a collaborative setting was a challenge, it helped develop a project design and work process that was ultimately effective.

By identifying the reasoning for various design decisions with the use of a decision matrix, deeper understanding and justification of how the choices corresponded with the project and team goals were created. As the design decisions were discussed within the team, we gained an appreciation for the work and considerations that shaped the designs of the other disciplines. As a result, design decisions often reflected factors that were best for the overall building design, which in some cases were not the optimal selection for individual design disciplines. From a structural standpoint, it was a new experience to coordinate systems early in the design process while developing preliminary structural concepts. BIM/IPD Thesis enabled me to expand my technical knowledge and understanding in structural engineering, while also broadening my experience with multidisciplinary coordination and communication throughout the design process.

I would like to thank my team for their amazing effort throughout the year, as I could not envision going through the process with a different group. I greatly appreciate the advice and support that Professor Parfitt and Dr. Solnosky provided throughout thesis and my college career.