

Building Information Modeling in Practice – the new **AGA**

Did the BIM approach live up to the hype?

Absolutely

Increased Speed of Delivery

- Powerful communication tool for the design intent and construction plan
- Optimized sequence of construction
- Pushed decisions earlier

Better Co-ordination

- Identified and resolved geometric conflicts in advance of construction
- Improved trade co-ordination due to less ambiguity
- Fewer errors on site
- Easier to update and share information
- All parties knew when changes were occurring
- Information rich as-built model for facilities management

Decreased Costs

- The North American wide design, engineering and trade contractors could clearly communicate without leaving their offices
- Reduced conflicts therefore reduced change orders

Higher Quality Work

- Substantially more trade work could be completed in a controlled shop environment rather than on site
- Structural Steel – clips
- Sprinkler System- heads
- Mechanical- mechanical room pipe work

A comment to the design community

- With the new 3D modeling software there are virtually now no limits to design, but there still has to be a way to **‘convert the vision to reality’**
- Engage the skills of a Construction Management Professional with BIM expertise (like Ledcor) to assist in scheduling, budgeting and constructability analysis of your vision as early as possible.



In Summary

BIM had a tremendous, positive impact on the AGA project in the ability to design, visualize and communicate the essence of this complex new national icon and without a doubt the new AGA would not have been as successful without this technology.

Those that do not embrace this technology will be overwhelmed by the shift that is occurring.