

Shane Ewing, PE DBIA
Principal
Martin/Martin, Inc.



Gregg Behmer
VDC Manager
GH Phipps Construction

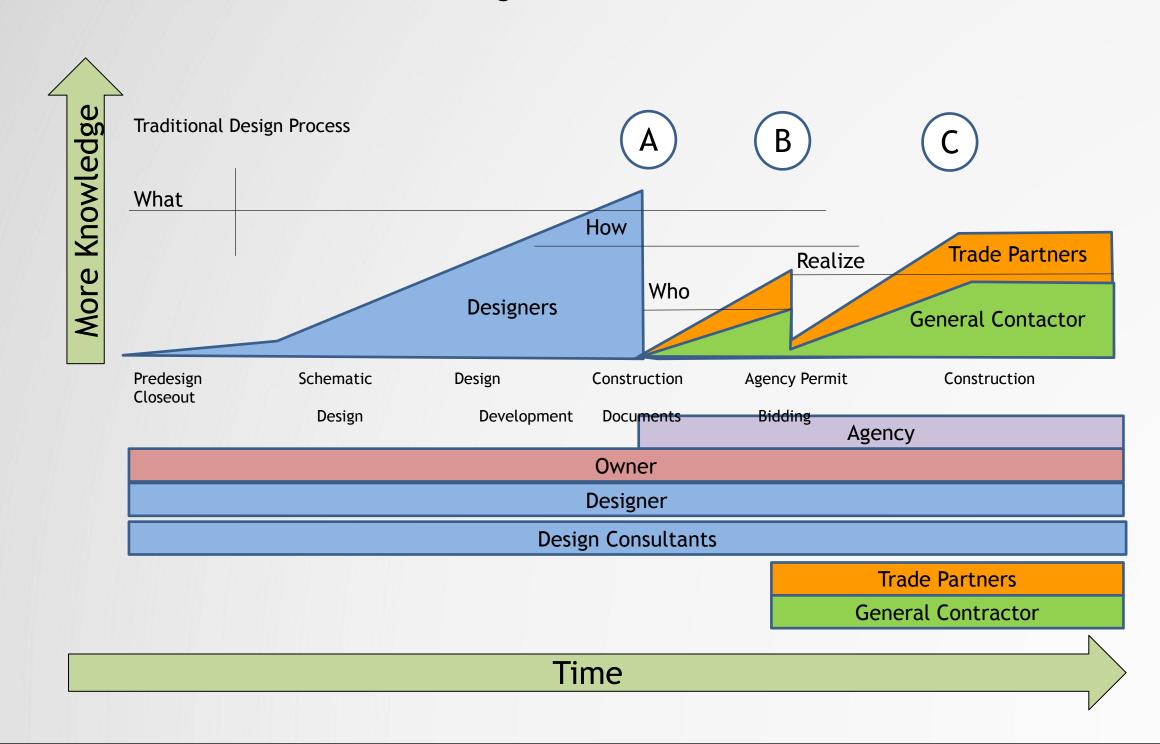


Grant Doherty
Project Manager
Martin/Martin, Inc.



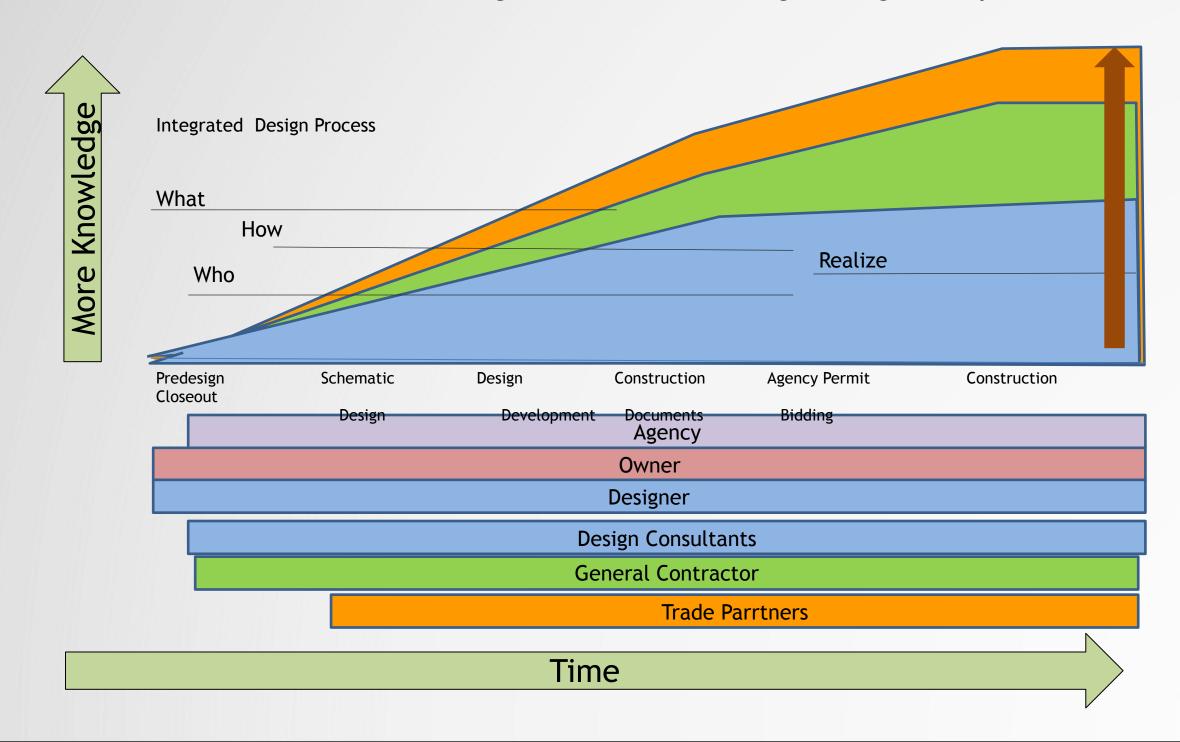
Introduction – GH Phipps

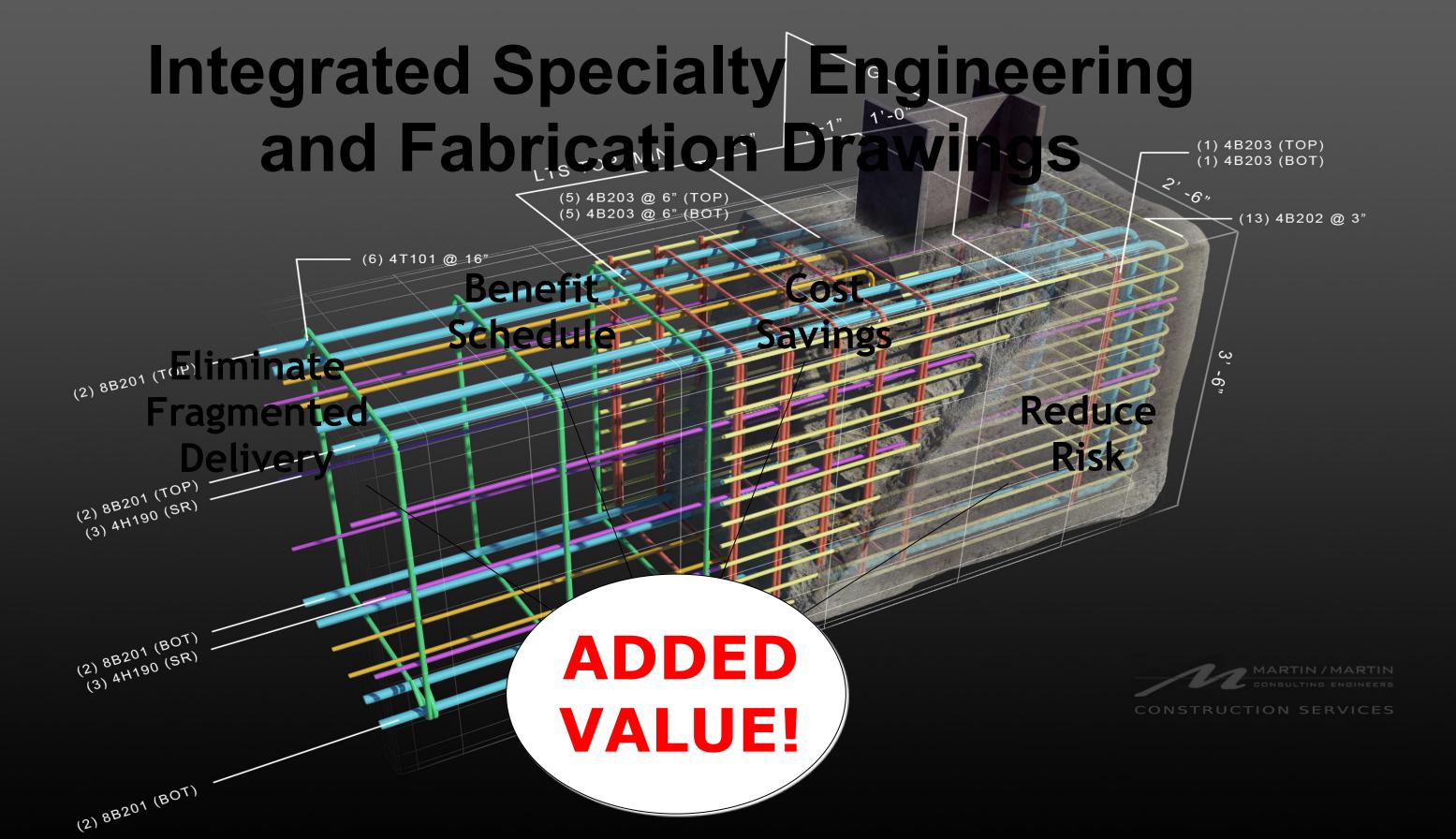
Knowledge vs. Information How knowledge is lost in Traditional Process



Introduction – GH Phipps

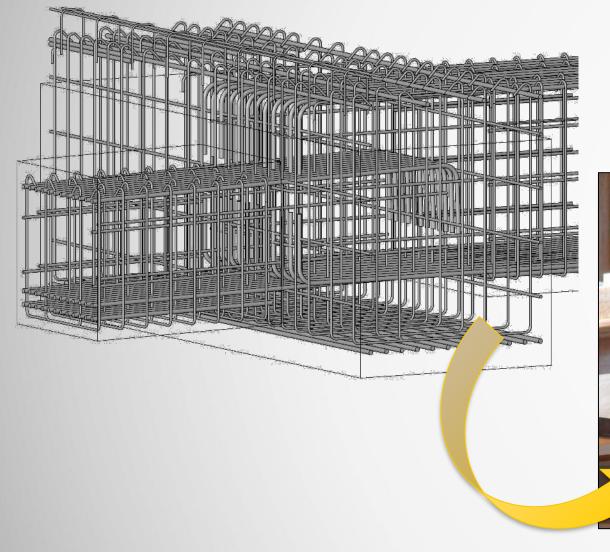
Knowledge vs. Information How knowledge is retained through integrated process.





Introduction – The Evolution

Rebar

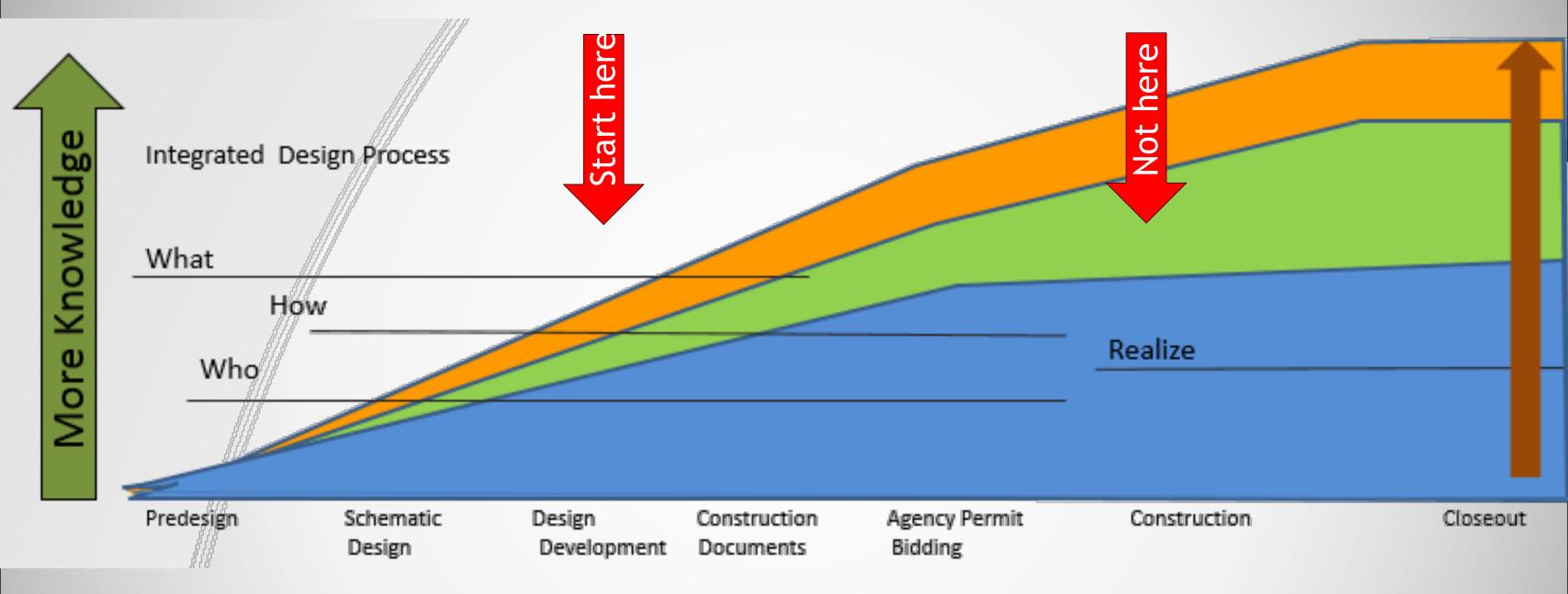


Steel





The Process - Does it Make Sense





The Process – Getting Started



AGENDA

Martin/Martin, Inc.
Platte Valley MOB Pre-Detailing Meeting Agenda

November 11, 2014

ATTENDEES:	
General Contractor:	GH Phipps
PM Superintendent:	
M/M Detailing Project Manager:	
Rebar Fabricator:	
Rebar Installer:	

AGENDA ITEMS:

- 1. Structural Steel
 - a. Structural Steel Connection Types
 - b. Bolted vs Welded
 - c. Level of Development
- 2. Rebar
 - a. Maximum Reinforcement Length
 - b. Pour Break Locations
 - c. Level of Development

"C" is for Cookie...&
Collaboration

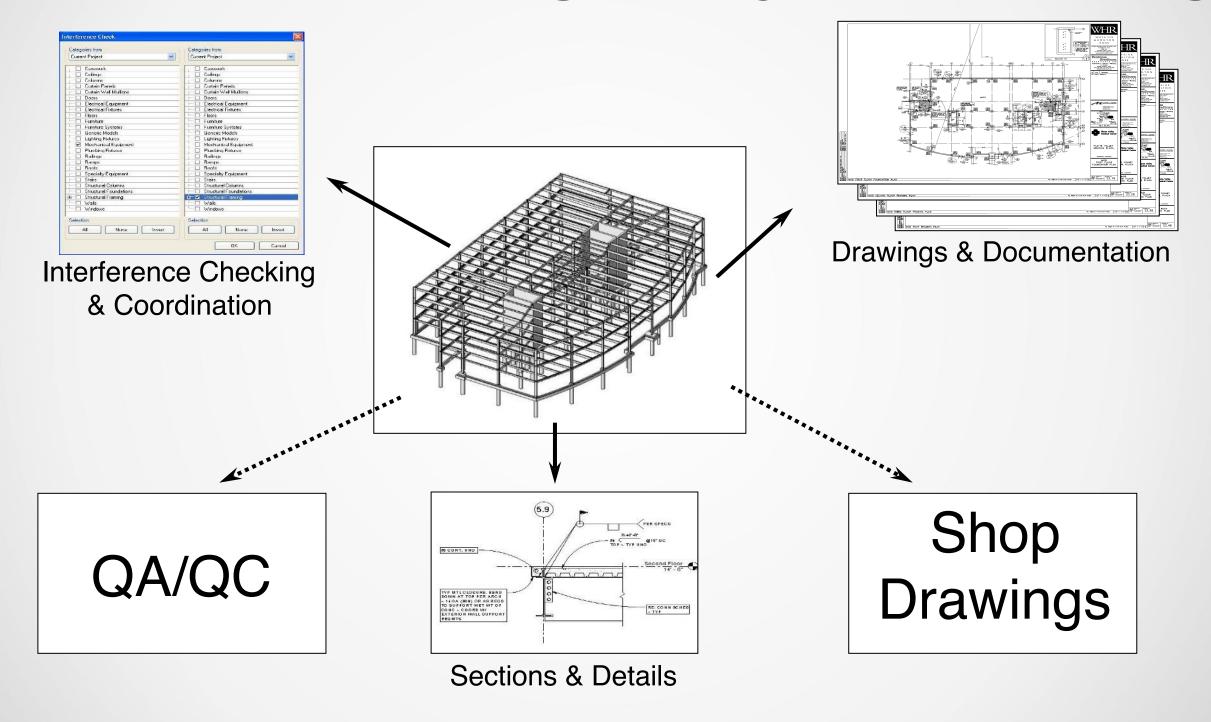
3 C'S of BIM and Design Build

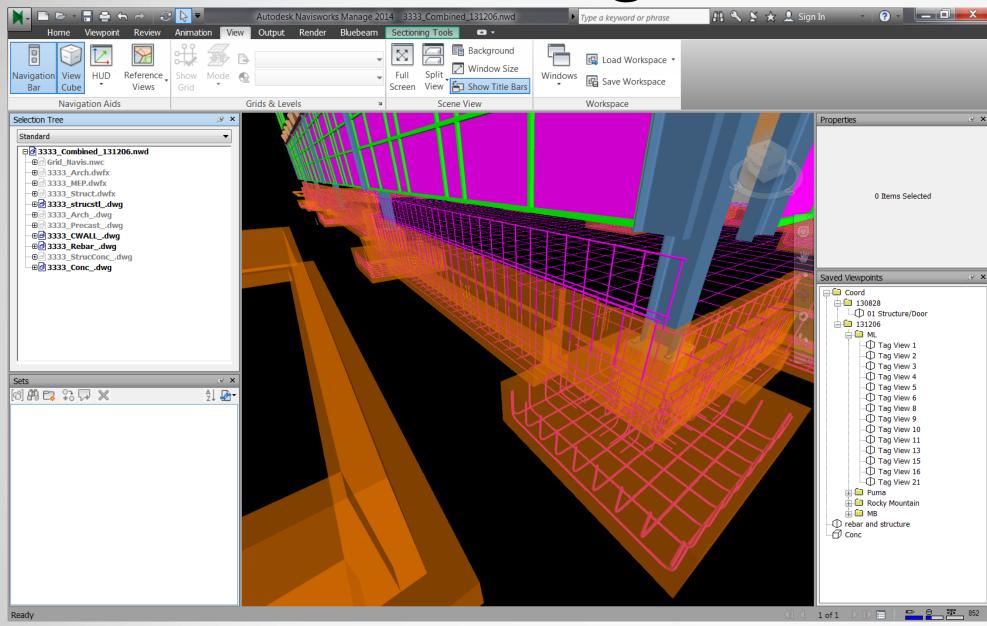
- Coordination
- Communication
- Collaboration





The Google of your Building



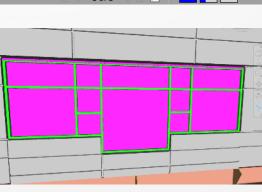


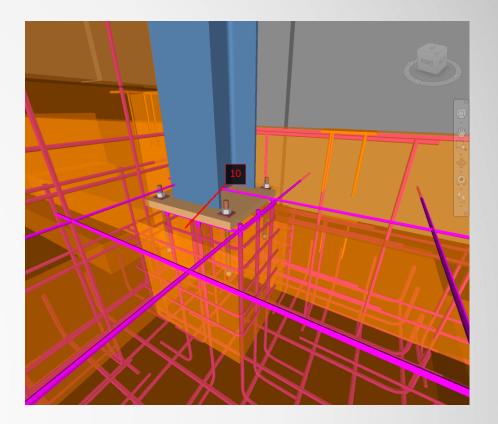
Fabrication Models

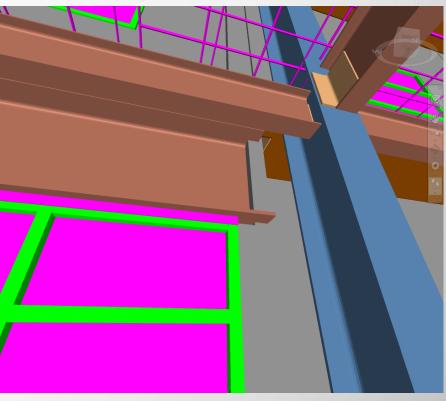
- Concrete
- Structural steel

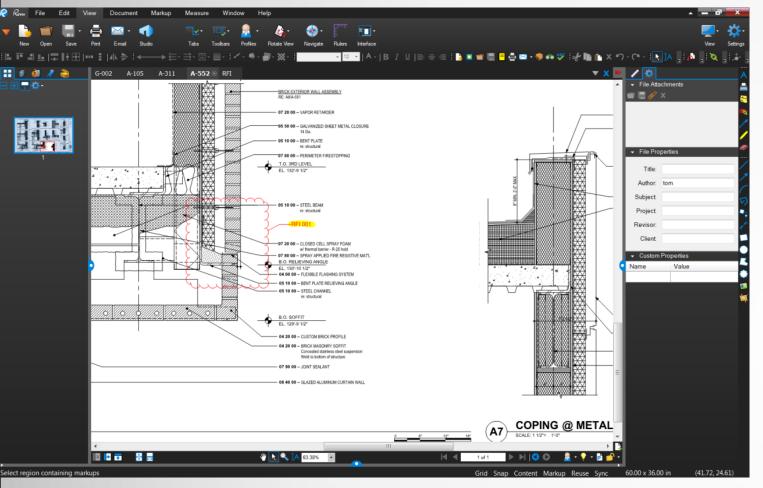
Rebar

- Glazing
- Precast







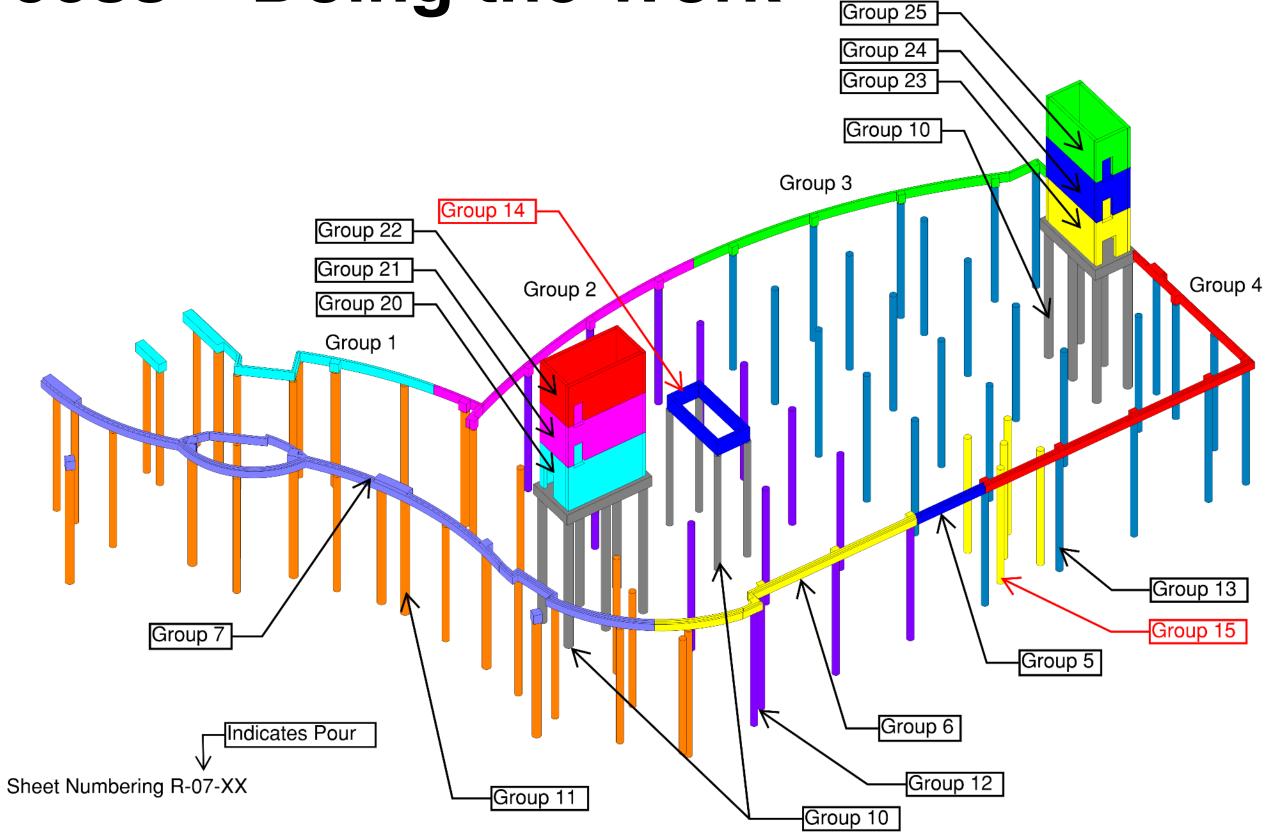




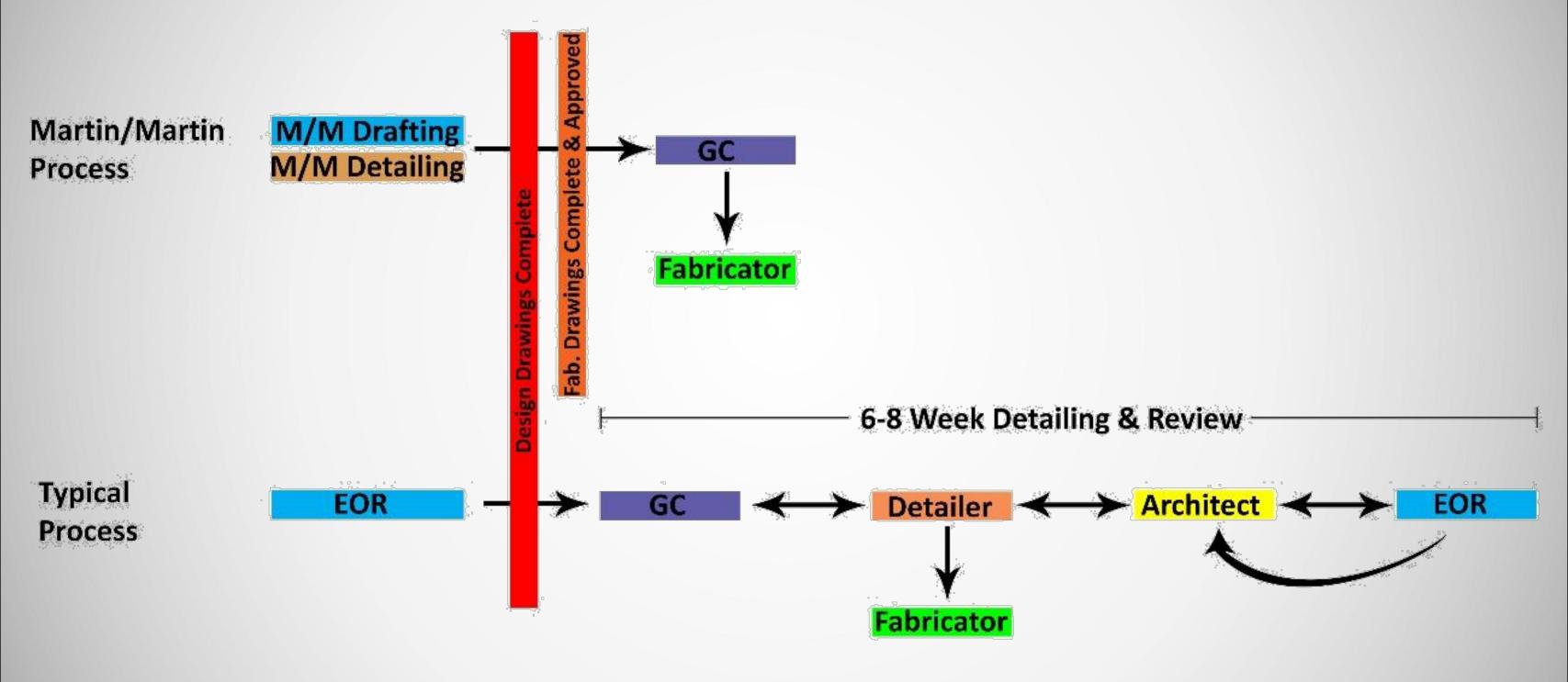


Model/Building Awareness

- Coordination with fabrication models
- Virtual plan room in trailer and kiosk in building
- Use of Bluebeam
- Use of Model viewers such as Navis



Advantages - Schedule





Advantages – Cost/Risk

Cost

- Possible use in bidding
- Greater cost certainty
- Risk reduction
 - defer it
 - bring it closer and control it
- Optimized design



Challenges/Lessons Learned

- Early contracting, and perception of no competitive bidding. Can be less of an issue for D/B?
- Up front costs
- Early information that is required by design team and construction team (design decision other integrated contractor information)
- Team engagement in process/staffing

