The Designer's Role in Anticipating and Addressing Construction Hurdles

Disclaimer: This presentation was developed by a third party and is not funded by WoodWorks or the Softwood Lumber Board

DESIGNER'S ROLE

- Rapport with Jurisdiction
- Coordinate
- Set Expectations
- Minimize Fiber
- Think Speed
- Think Tolerance

RAPPORT WITH JURISDICTION

- Mass timber is new to them too
- Communication early and often
 - Construction types
 - Ratings
 - Tested assemblies/Engineering judgements
 - Knowledge of future codes
 - Concealed spaces
 - Performace paths and AMMRs

COORDINATE

- Contractor / Supplier / Sub Involved Early
- Anticipate Extra Coordination
 - Regular Mass Timber Coordination Meetings
 - Architect
 - Structural Engineer
 - GC
 - Timber Supplier/Fabricator/Erector
 - Steel Fabricator
 - Fire Protection



Client Expectation: natural material that changes over time

Wood "tans"

Wood has sap

Wood dries

Wood fades



Exposed for 30 days

Protected







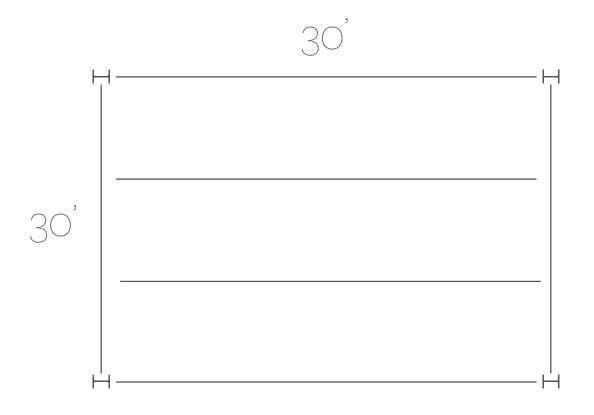


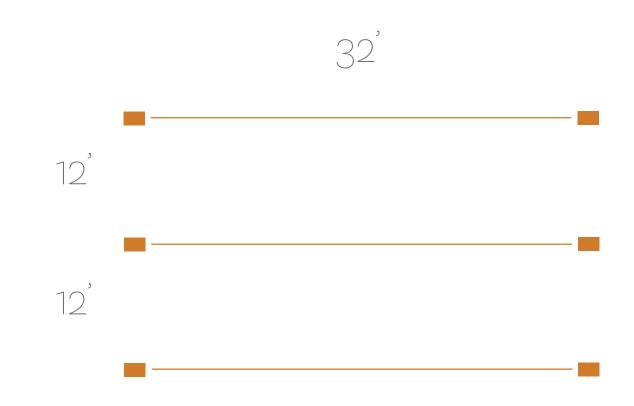
SET EXPECTATIONS

- Mass Timber Specification
 - Water Management Plan
 - Wood Finish
 - Cleaning Protocols
 - Shared Model / Clash Detection



MINIMIZE FIBER: Bay Sizing

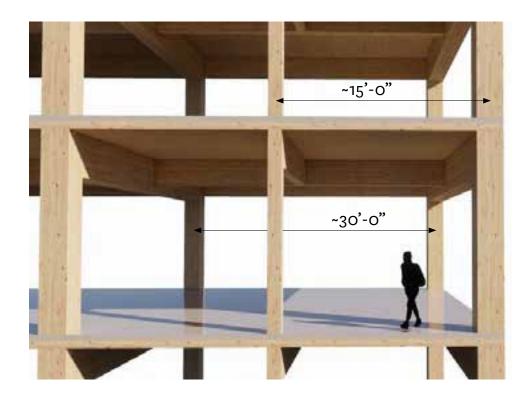








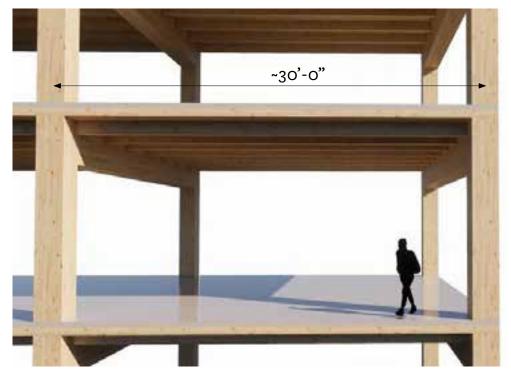
Most Wood Fiber



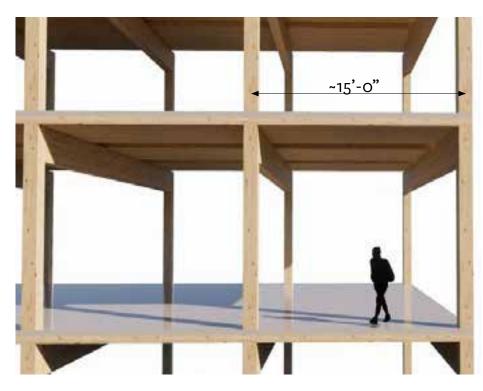
30'x30', 15' on Perimeter



38'x12' One-way

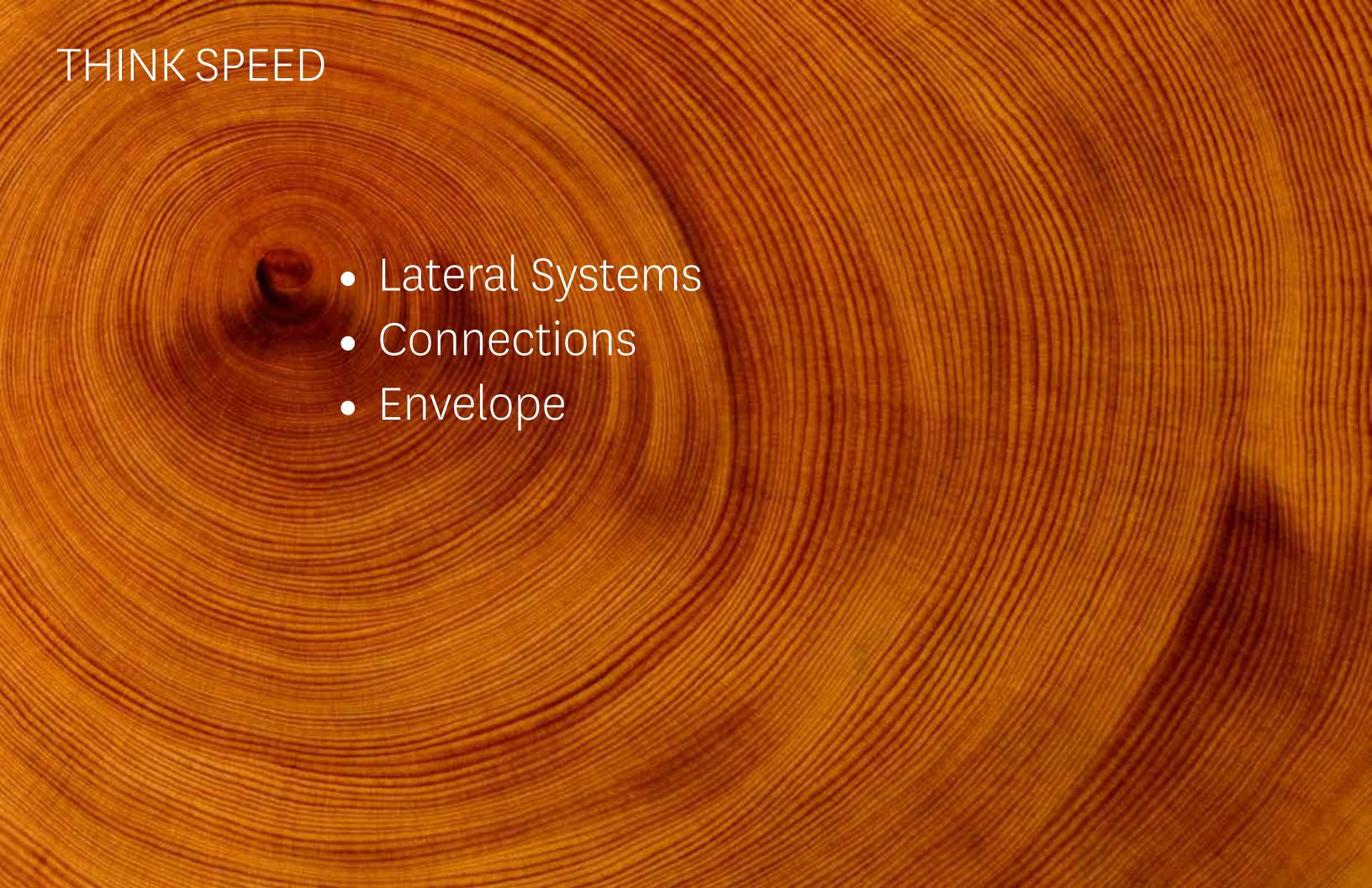


30'x30', Integral Joists

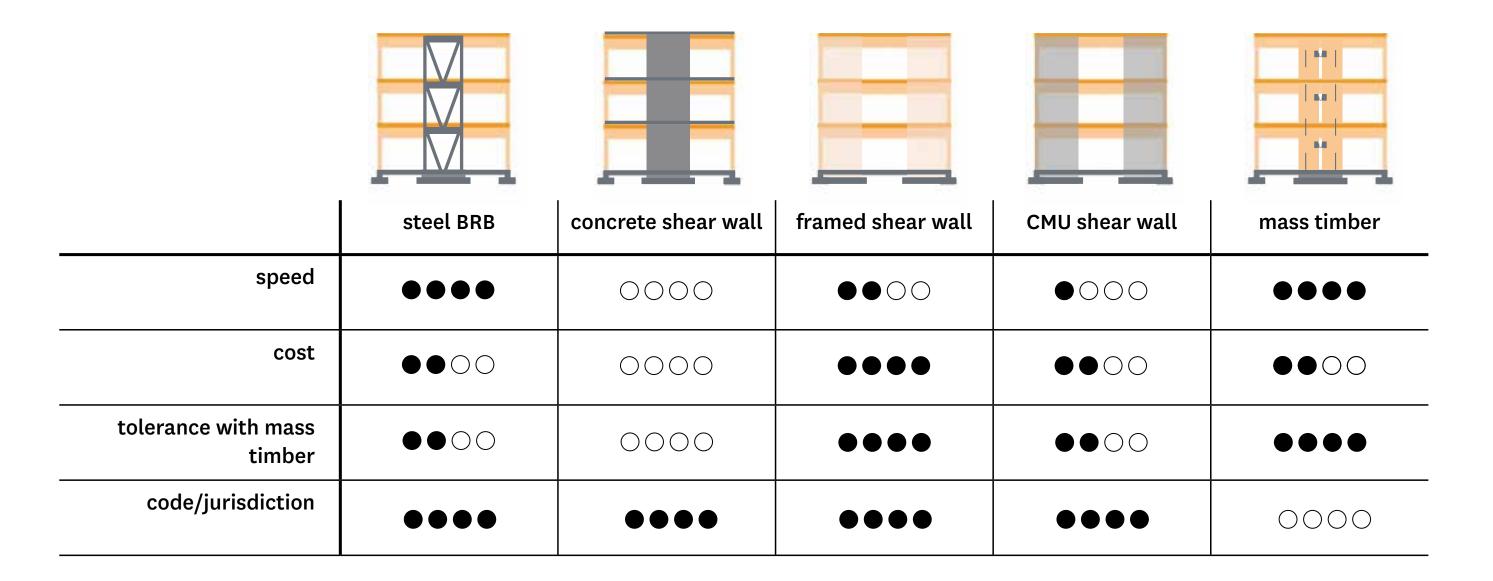


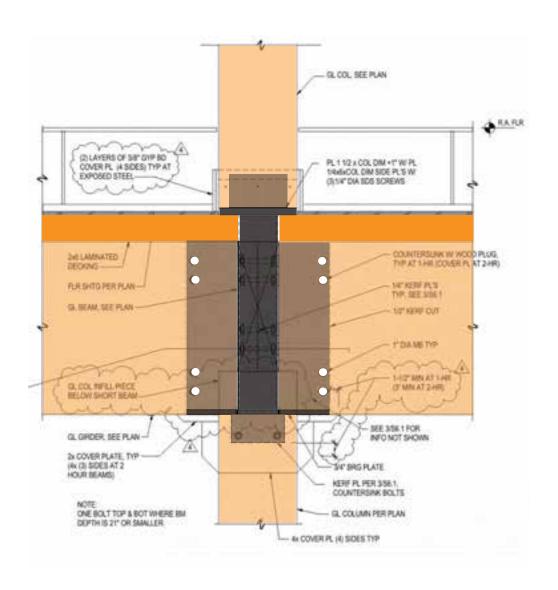
30'x15' One-way

Least Wood Fiber

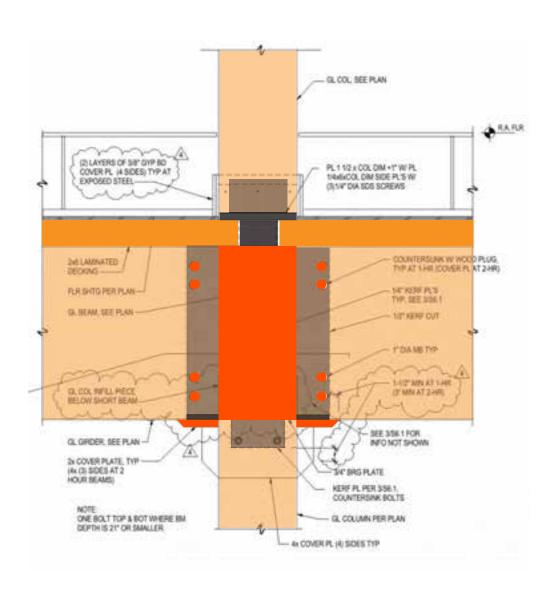


THINK SPEED: Lateral Systems





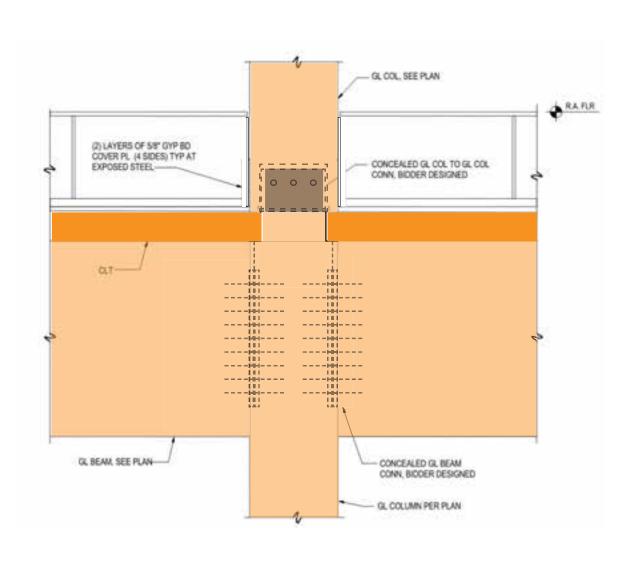




Return to apply fire proofing

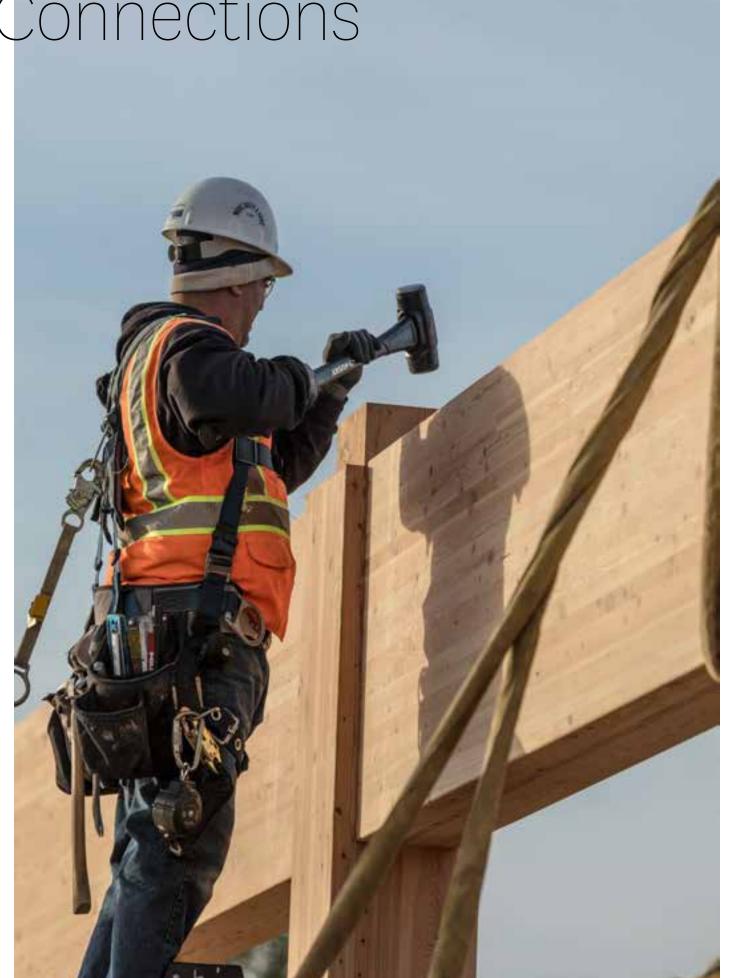


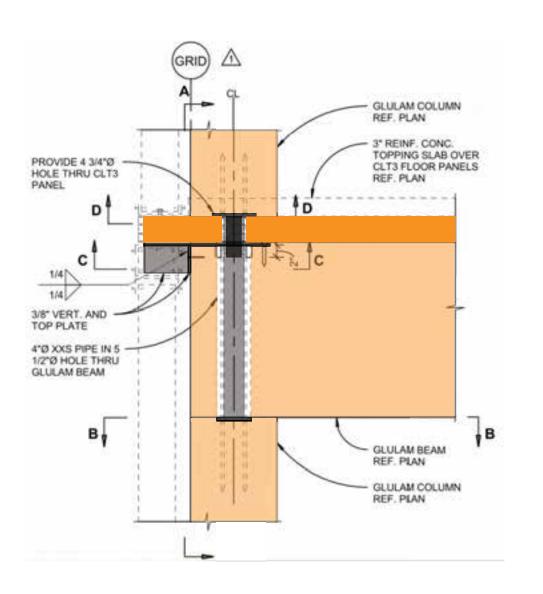










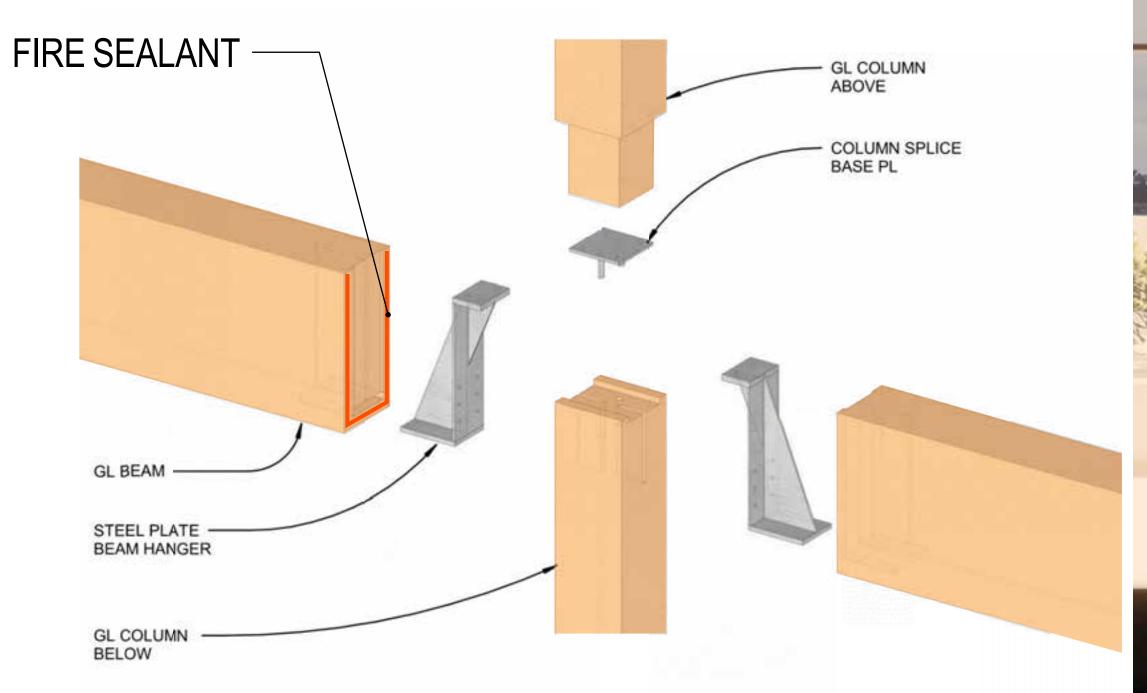






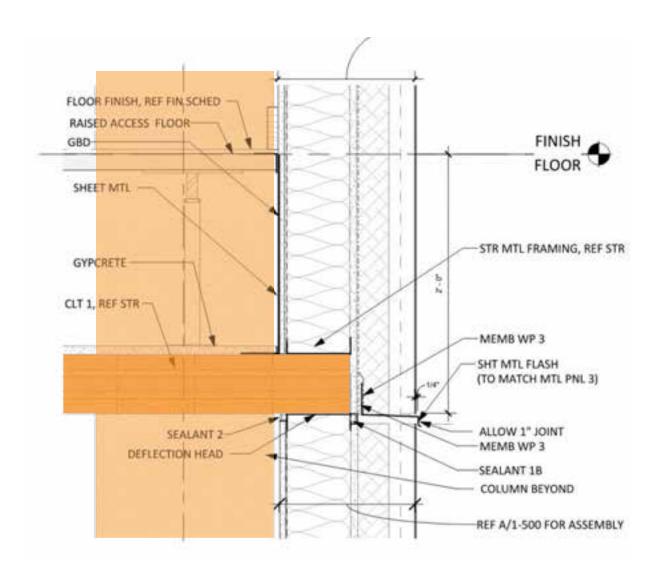












- Temporary roof
- Prefab
- Unitize

