

Design Assist in Action: Real World Benefits for Your Next Project

Webinar | October 2025



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Full AIA CE requirements by state available on the AIA website.

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Presenters



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Director of Architectural Systems



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Engineering Manager



What to Expect

- 1. Understand what Design Assist entails, especially in relation to traditional project delivery methods.
- 2. Recognize how early engagement supports design intent, budget control, speed, and constructability.
- 3. Identify the unique Design Assist processes and benefits across hybrid, industrial, and architectural project categories.
- 4. Understand how BIM is used in the design assist process and how it contributes to design schedule in this setting.
- 5. Apply key lessons and best practices from real-world Design Assist case studies.



Build Without Limits

For those ready to build without limits, Wells offers boundary-pushing building solutions, systems, and services grounded in regional connections strengthened by our trusted team.

Together, we can transform your bold ideas into beautiful spaces that stand the test of time.

Strength That Inspires

2700+

Team Members

650+

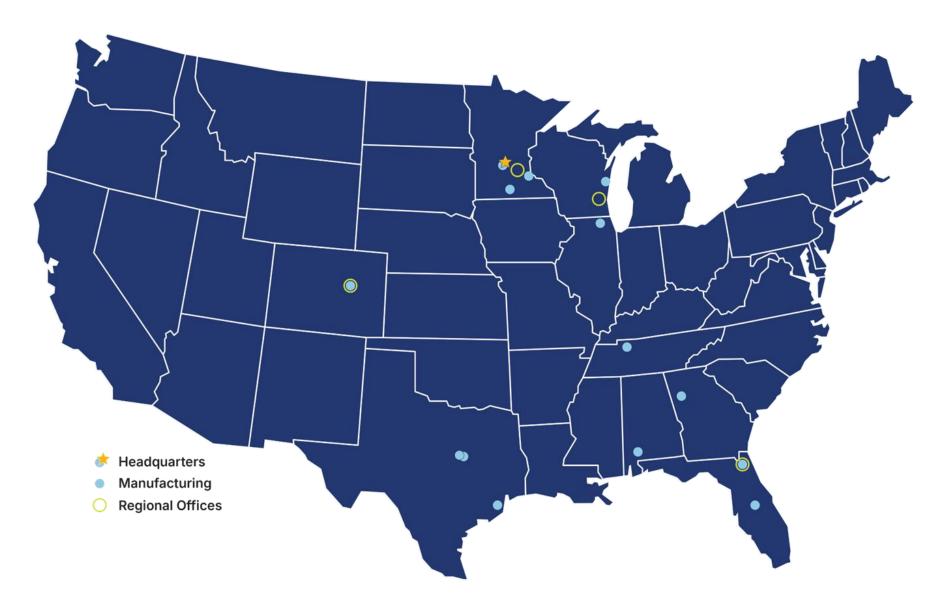
Projects Each Year

\$5.2B
Worth of Projects in 2024





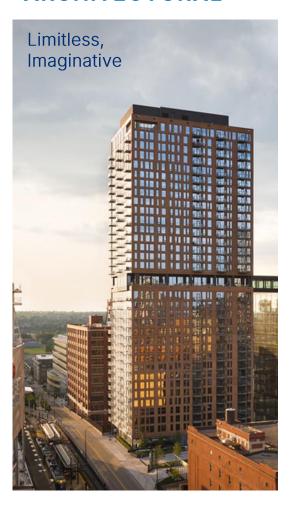
Network of Knowledge





Wells Building Systems

ARCHITECTURAL



STRUCTURAL



GATELITE®



DEX





Transforming Communities



CIVIC & COMMUNITY



EDUCATION



HEALTHCARE



INDUSTRIAL & WAREHOUSE



MANUFACTURING & FOOD PROCESSING



OFFICE



PARKING



RESIDENTIAL



SPORTS & ENTERTAINMENT



MISSION CRITICAL



The Wells Full-Service Experience

DESIGN



MANUFACTURE



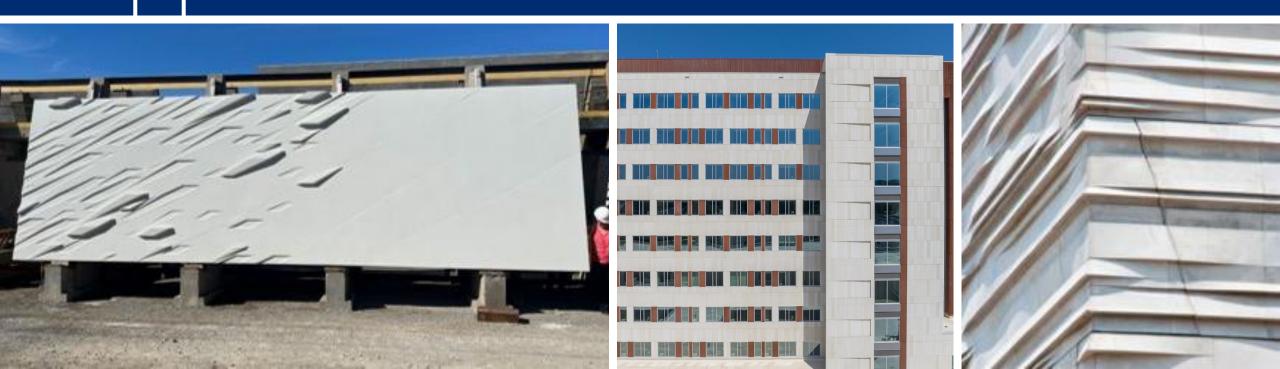
BUILD



PROTECT



Design Assist in Action: Real World Benefits for Your Next Project



What is Design Assist?

Definition:

- Collaborative partnership with design teams from project start
- Early engagement during schematic design to optimize solutions
- Manufacturing insights brought directly to the design table
- Enhances architectural vision through thoughtful collaboration
- Uncovers challenges before they become costly problems
- Clearly defining scopes to limit risk of gaps

What it is not:

- Not design-build, not full delegated design traditional roles remain intact
- Not a takeover of design responsibility we enhance, don't replace
- Not cost-plus awarded on best-value basis with clear expectations
- Architect still leads we support design intent, never override it

Process Overview



INITIAL COORDINATION

Project stakeholders establish a collaborative framework to align design intent with specialized manufacturing expertise and project requirements.



SCOPE DEFINITION

Design team and specialty contractor define collaborative scope, deliverables, and professional responsibilities within the design assist framework.



DESIGN DEVELOPMENT

Architect and specialty contractor collaborate on design optimization, integrating manufacturing knowledge with architectural vision through iterative processes.



COST INTEGRATION

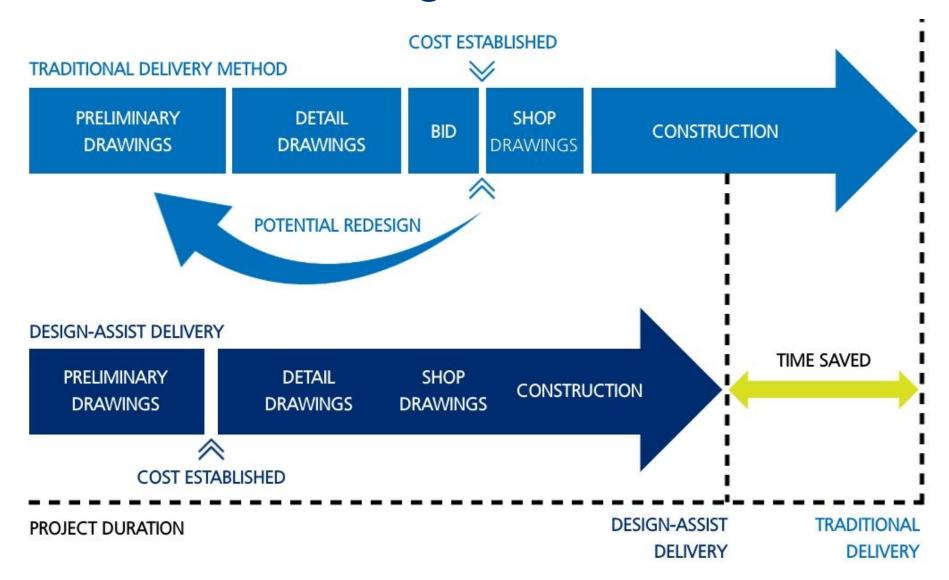
Continuous cost feedback throughout design development enables informed decision-making and value engineering opportunities for optimal project outcomes.



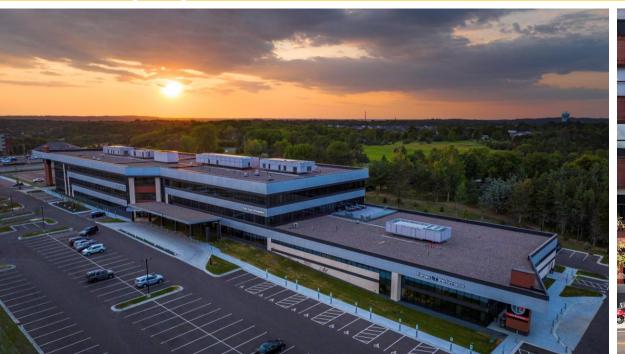
DOCUMENTATION FINALIZATION

Design team finalizes construction documents with integrated specialty contractor input, ensuring buildability and design intent alignment.

Traditional vs. Design Assist



Design Assist // Hybrid Projects







Hybrid Projects







Project Types

Civic, municipal, parking structures, etc.

Mixed-material projects where precast is one of many systems.

Focus

Design Assist provides reassurance for complex integrations.

Prefabricator's Role

Handling all precast-related aspects so others can focus elsewhere.

Process Overview

A COLLABORATIVE APPROACH FROM CONCEPT TO CONSTRUCTION



DESIGN ASSIST AGREEMENT

Brought on before full subcontract



SCOPE TRACKING

Aligned with Design Team deliverables



FULL COORDINATION

Active in consultant & OAC meetings



LOCK STEP PRICING

Trend log pricing through design development



DRAWING INTEGRATION

Selective precast drawing incorporation into design packages



Baptist Health Care, Pensacola, FL

- 958 precast panels covering 189,000+ of building envelope
- 70% reduction in material usage compared to traditional panels with punched windows
- 4,800 manhours saved on jobsite through pre-glazed panel solutions









Montbello High School Addition, Denver, CO

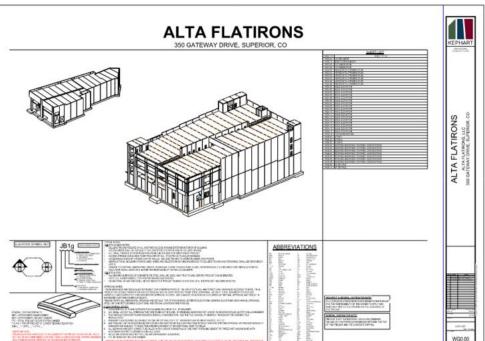
- Multi wing addition to aesthetically compliment original structure
- Full height load bearing architectural panels with multiple finishes













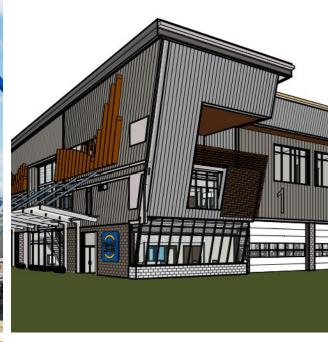
Alta Flatirons, Superior, CO

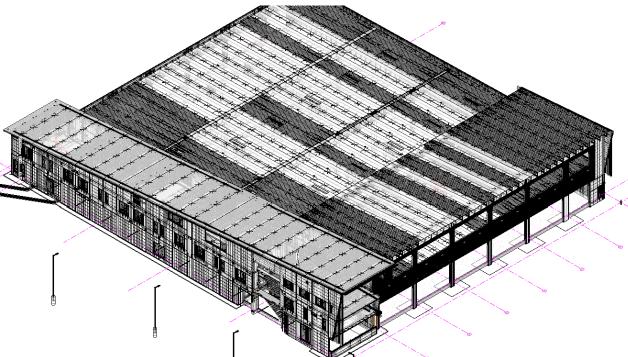
- Total Precast pretopped parking garage and podium wrapped by wood fame multifamily housing
- Precast and wood structures designed concurrently











Summit County Transit Operations Center, Frisco, CO

- Original block and steel superstructure converted to total precast
- Utilized to satisfy unique constructability, fire separation, and framing requirements



Design Assist // Industrial + Data Centers







Industrial / Data Center Projects







Project Types

Industrial, data centers, food processing.

Focus

Speed of construction, coordination, and system recommendations.

Integrating with mechanical, electrical, and plumbing systems (equipment stacks, embeds, etc.)

Prefabricator's Role

Help coordinate critical interfacing details early and setting framing around program needs.

Process Overview

FAST-TRACK DELIVERY THROUGH EARLY ENGAGEMENT AND ADAPTIVE PLANNING



EARLY AWARD

Project subcontract awarded early for Design Assist input



PROTOTYPE CONCEPTS

Design Assist
Agreement for
prototype development



SCHEDULE DRIVEN

Scope based on project schedule needs



3D MODEL COORDINATION

Single source of truth through design stage



DYNAMIC PRICING

Schematic budget routinely updated to final pricing as design develops





Grainger Distribution Center, Hockley, TX

- Knowledge sharing transformed the team approach
- Early collaboration exceeded expectations
- Capable delivery surpassed traditional methods



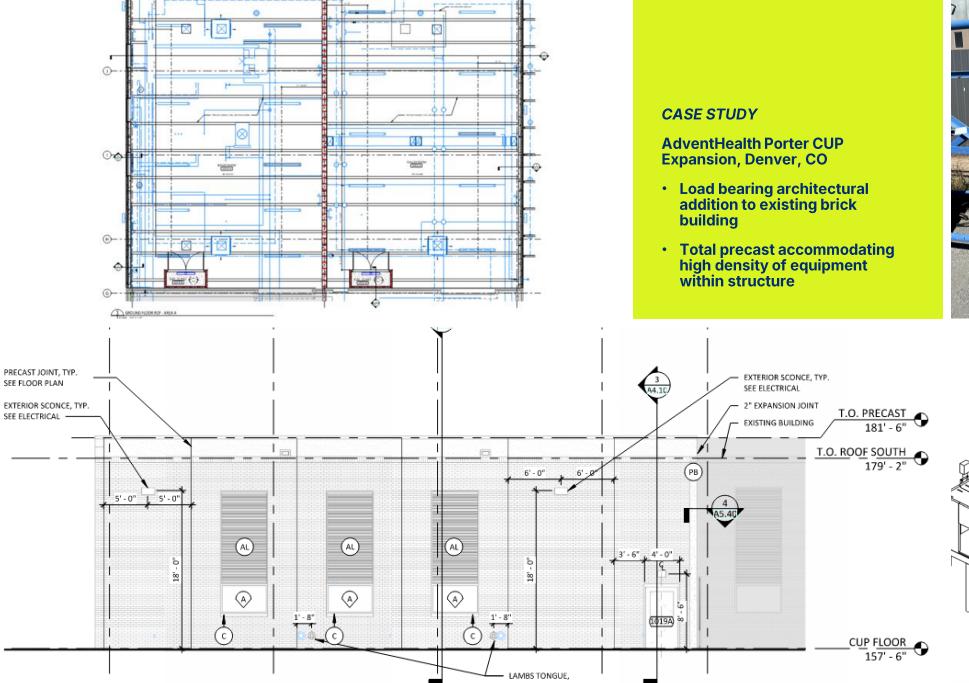
DC Blox Data Center, Birmingham, AL

- Award recognized collaborative excellence
- Reliable delivery for missioncritical operations
- Knowledge-driven approach to embedded systems safely

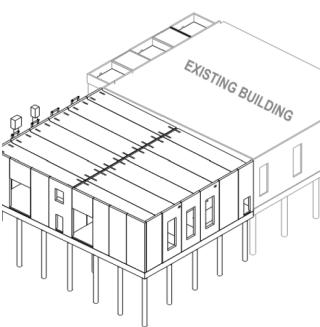




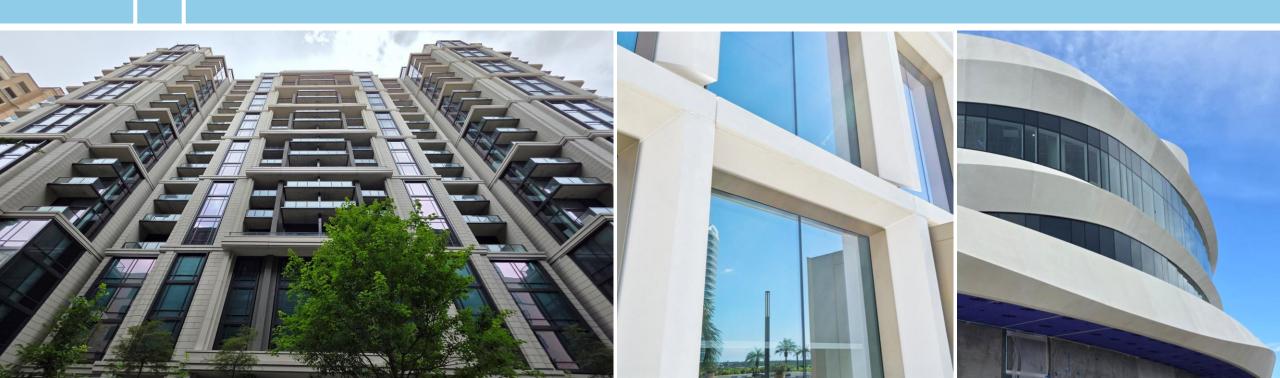








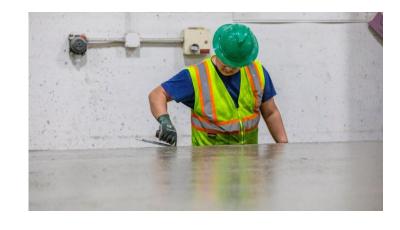
Design Assist // High-End Architectural



High-End Architectural Projects







Focus

Maximizing the aesthetic and performance potential of precast.

 Supporting ambitious design geometries and façade performance.

Capabilities

- Mold modules, CNC machining, C&C tech.
- Access to advanced software.
- Structural feasibility, preglazing, form liners, performance targeting.

Precaster's Role

High stakes - precaster ensures the design is buildable without compromising the design vision/intent.

Process Overview

Seamless collaboration for precision-crafted architectural precast



DESIGN ASSIST AGREEMENT

Agree upon scope and duration of design assist



SETTING MILESTONES

Design assist milestones are set



COLLABORATION

Continued input from precast team geometry, connections, loading.



FINAL PRICING

Pricing locked in after 100% CDs



PRECAST DESIGN AND SHOPS

Preparation of shop drawings for approval



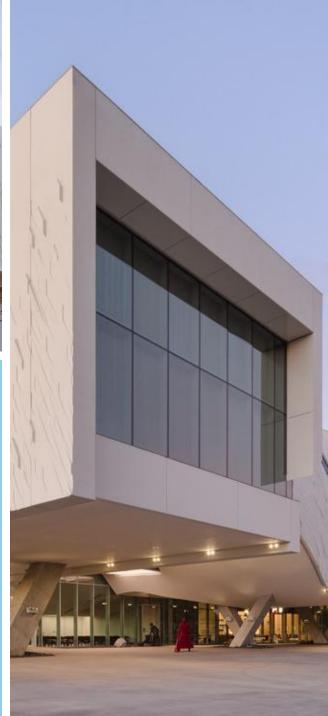




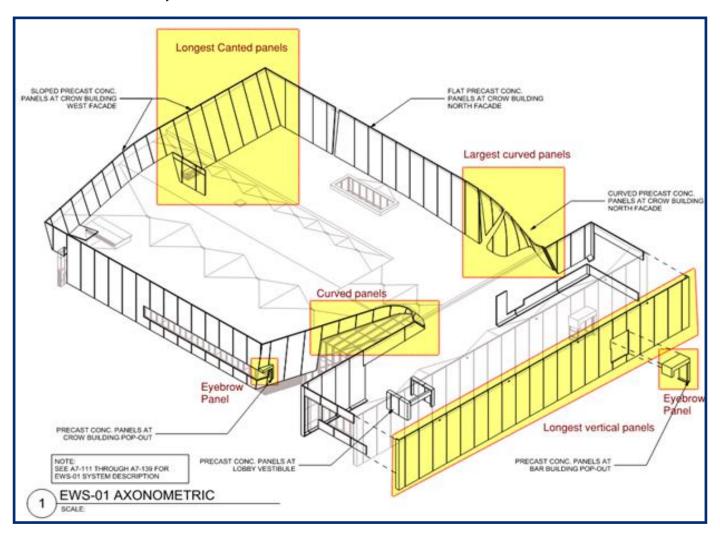
Crow Museum of Asian Art UTD Athenaeum Complex, Dallas, TX

"By embracing our construction and fabrication partners early in the design process, we're able to receive real-time feedback on constructability and cost, which optimizes the design and construction process."

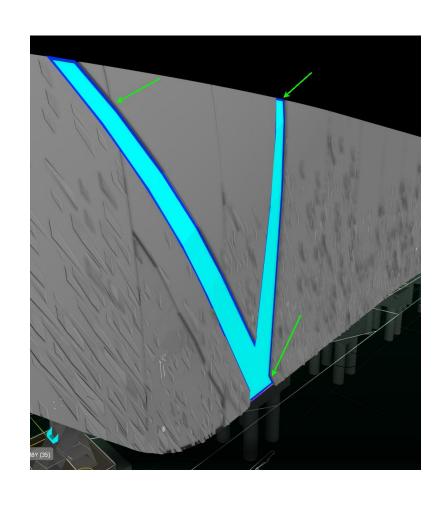
-Arne Emerson Partner, Morphosis

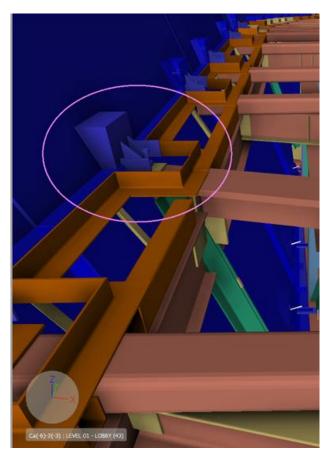


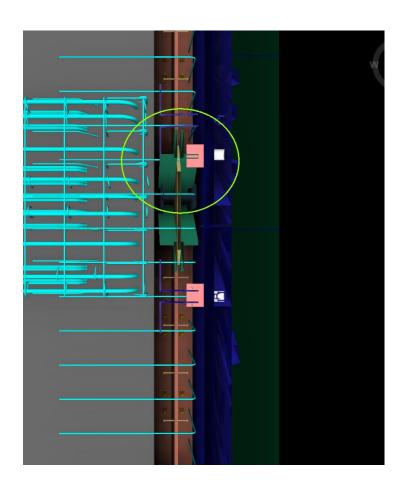
BIM / VDC



BIM / VDC



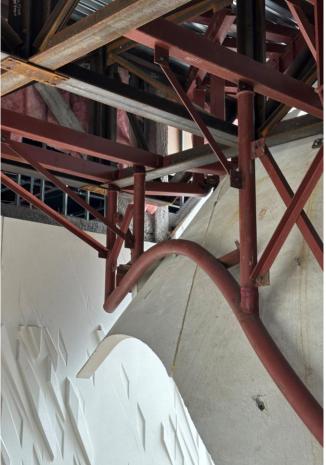


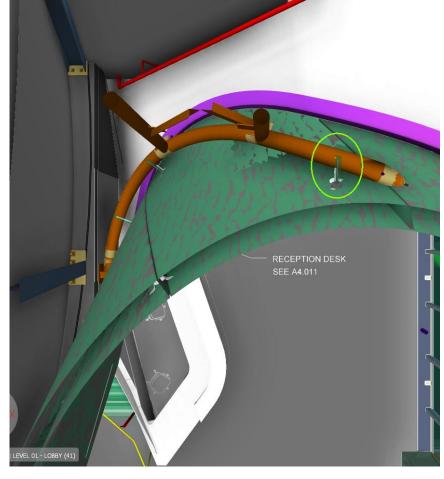


BIM / VDC

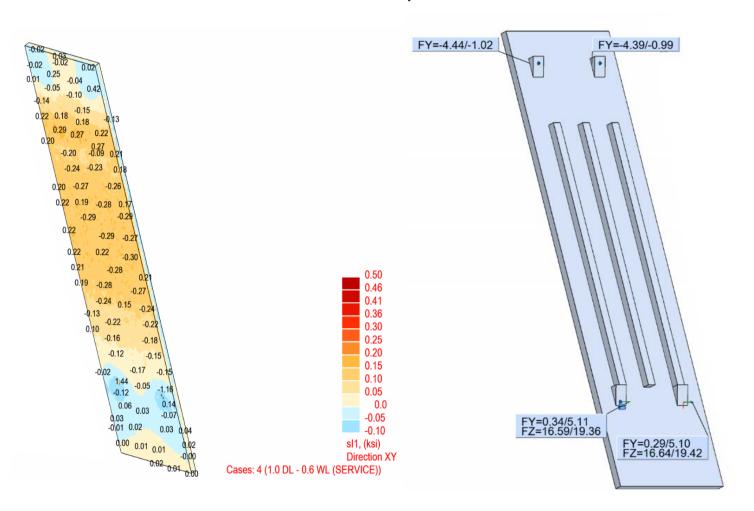


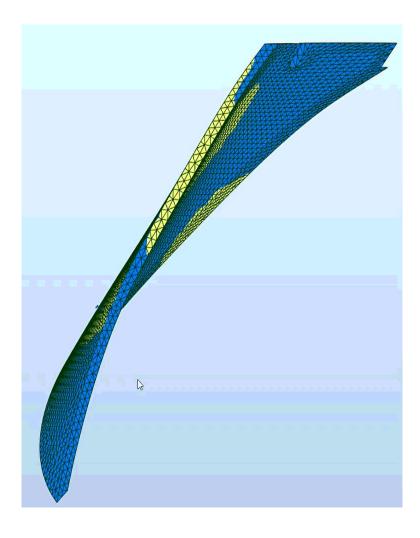




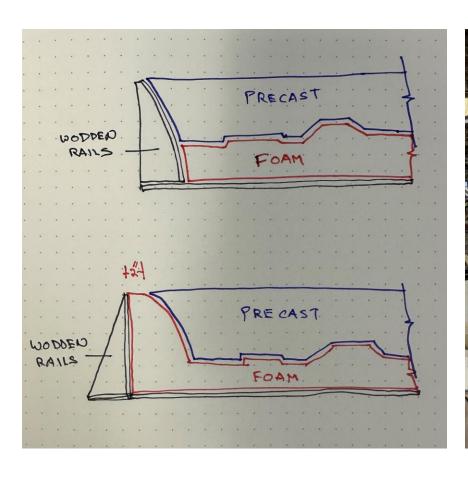


Finite Element Analysis (FEA)



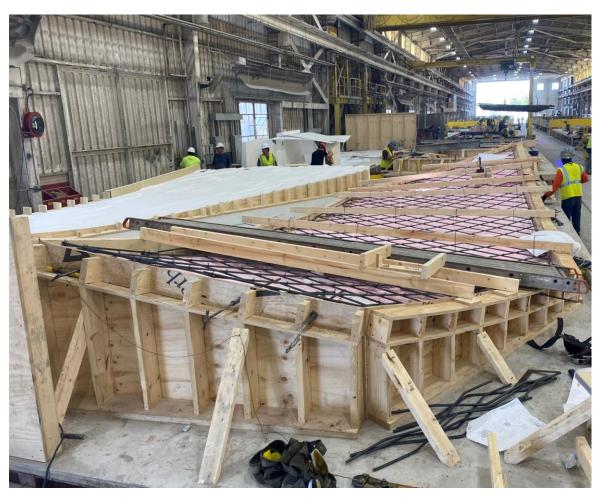


Forming



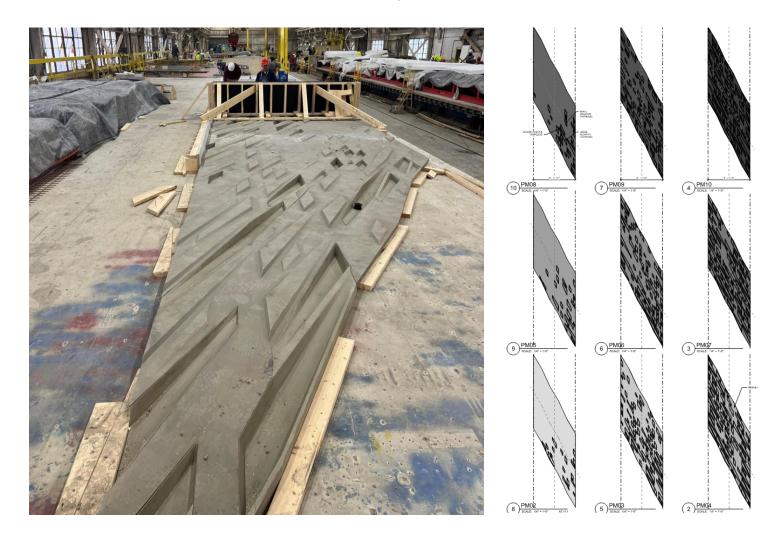


CROW MUSEUM OF ASIAN ART, UTD ATHENAEUM COMPLEX





CROW MUSEUM OF ASIAN ART, UTD ATHENAEUM COMPLEX



CROW MUSEUM OF ASIAN ART, UTD ATHENAEUM COMPLEX









CASE STUDY

Knox Tower, Dallas, TX

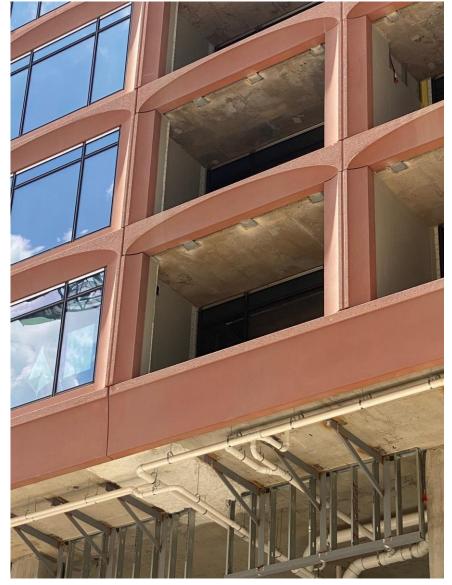
- 100,846 SF of Precast | 1,200 Pieces
- 28 Levels
- Traditional architectural window punch, spandrels & column covers
- Two mix designs | Two finishes
- 4" & 6" projected tapered profiles

Design

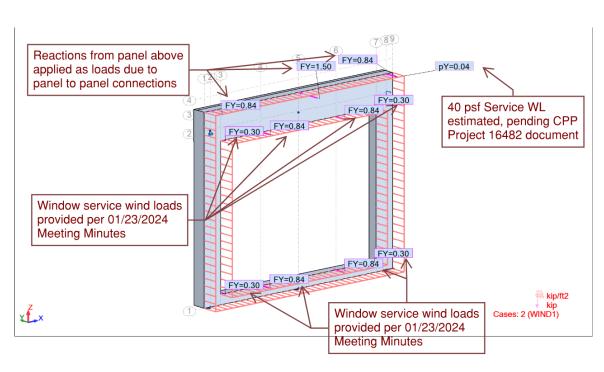


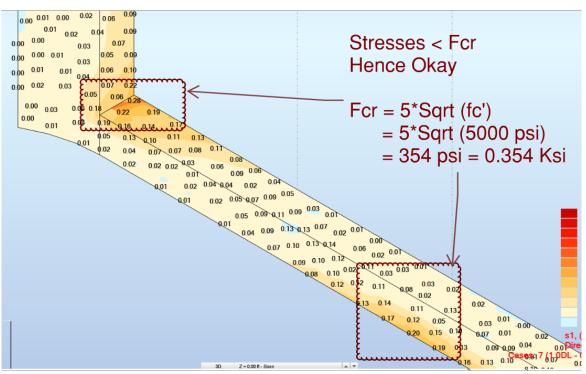




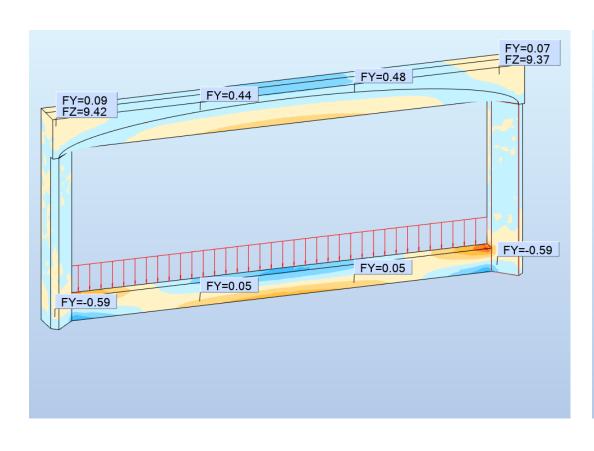


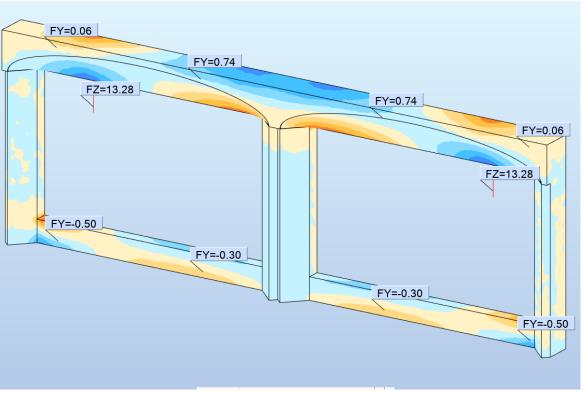
Finite Element Analysis (FEA)



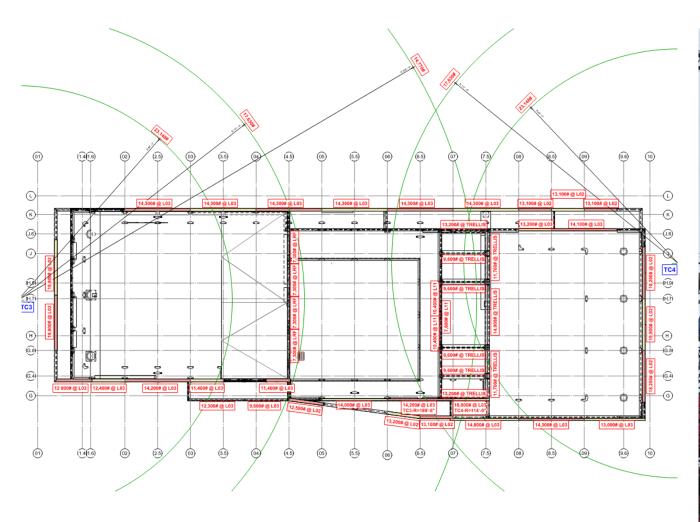


FEA



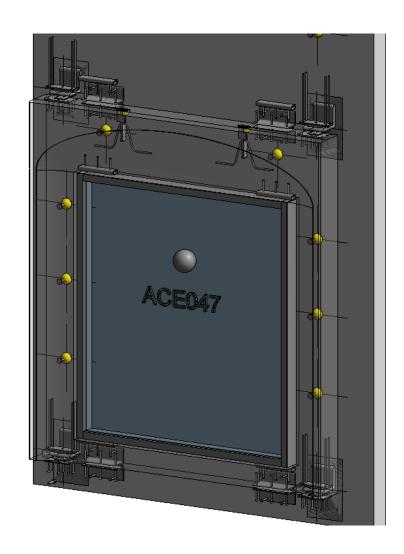


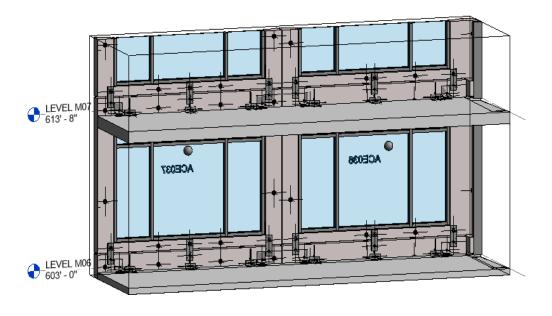
BIM / VDC



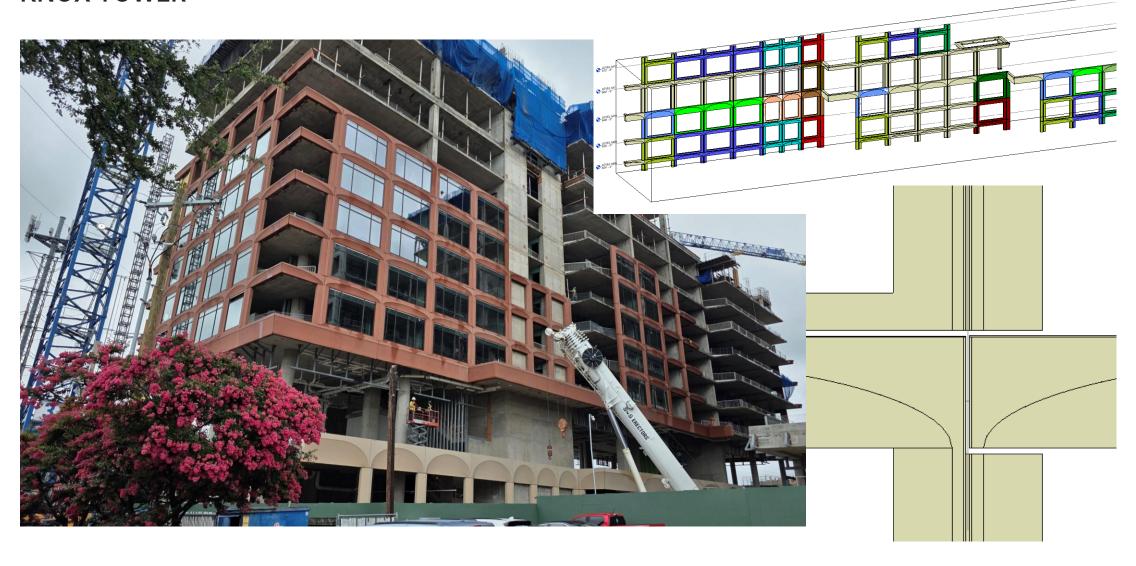


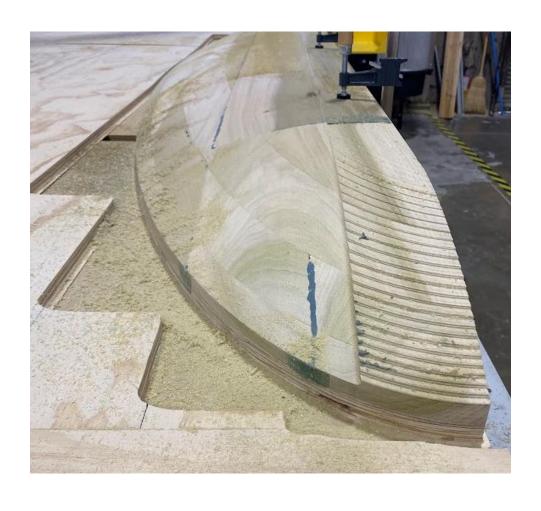
BIM / VDC



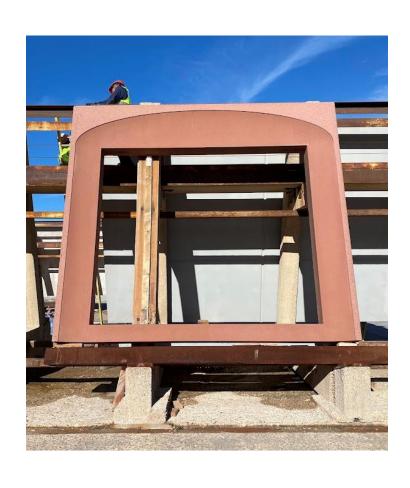




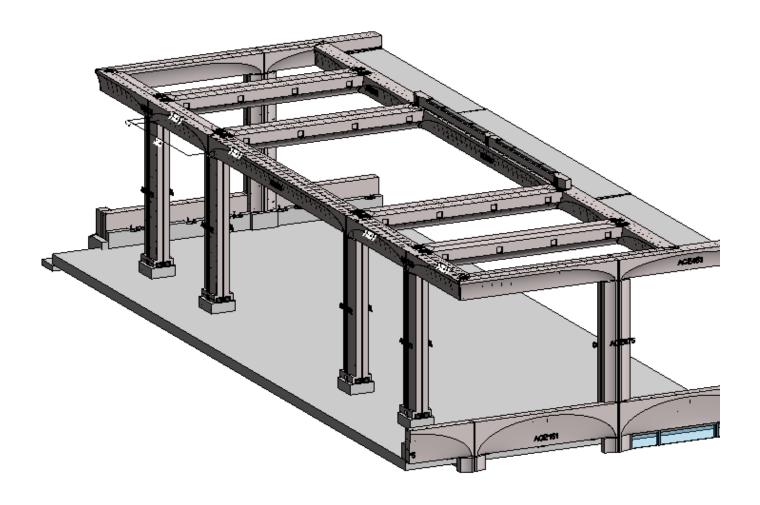




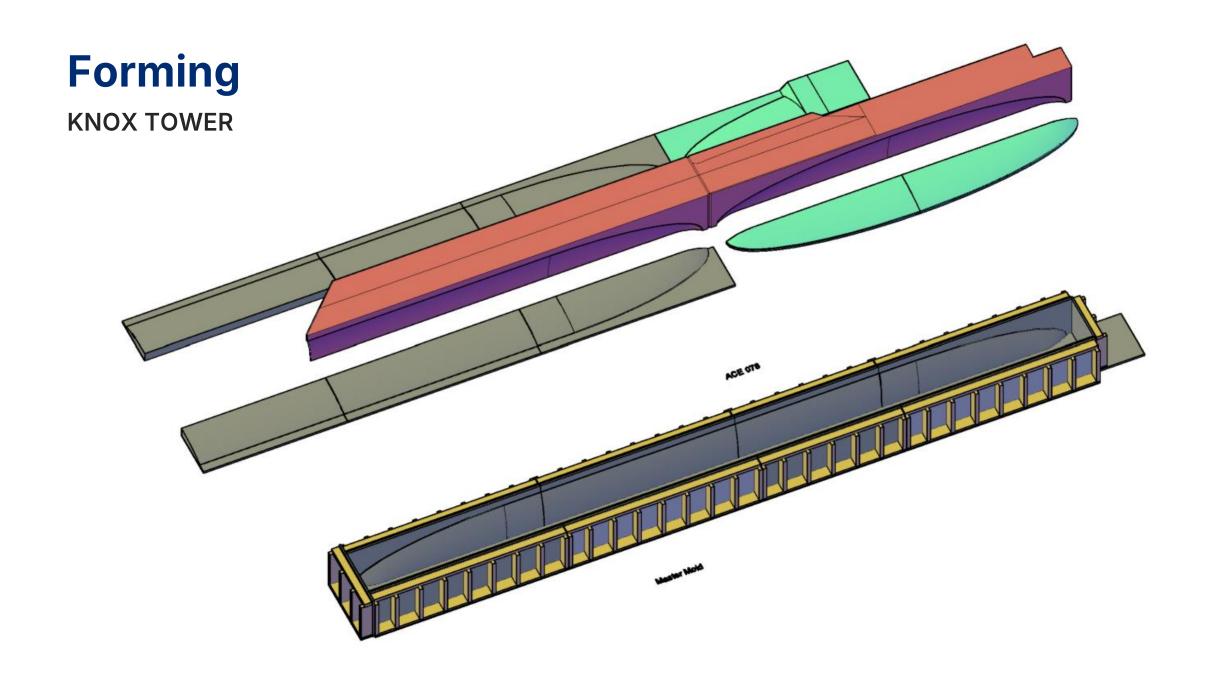












All-encompassing Project - Maeve







CASE STUDY

Maeve, Raleigh, NC

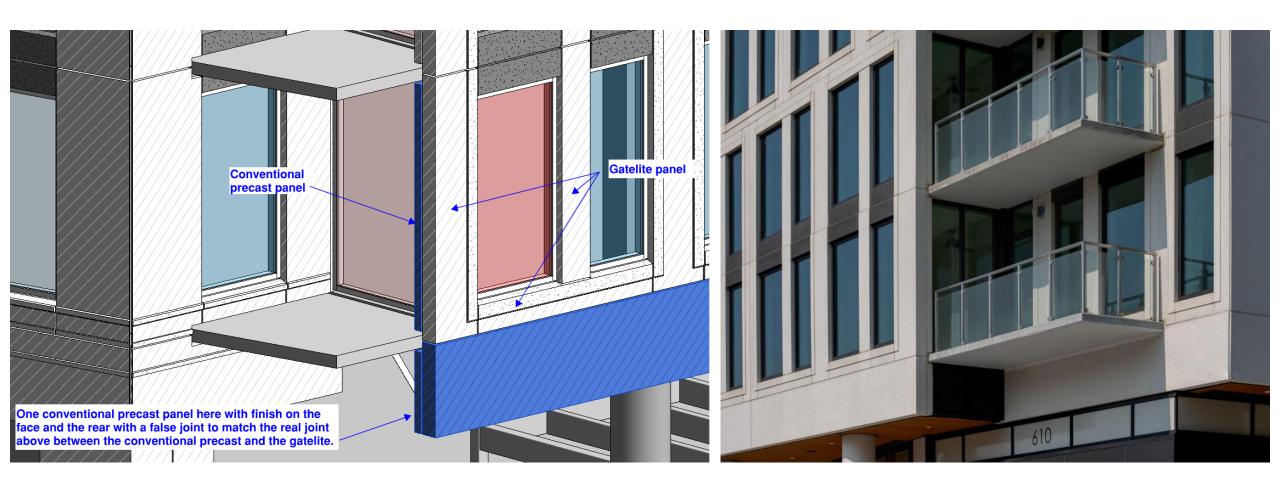
- 680 total units
- 547 are GateLite units
- 133 are Arch precast panels
- 81,204 total concrete skin sq ft

Versatility

MAEVE



APC & Unitized Facade



Performance

Unitized building facade

GateLite Performance Criteria

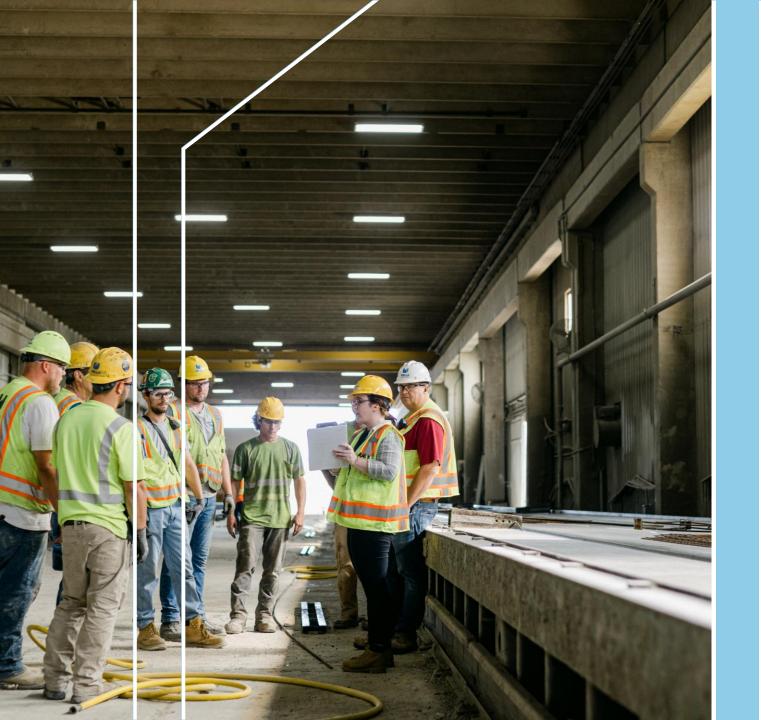
- Air Infiltration ASTM E283/E283M-19
- •Static Pressure Water Resistance ASTM E331-00 (16)
- Dynamic Pressure Water Resistance AAMA 501.1-17
- •Structural Performance ASTM E330/E330M-14
- Water Vapor Transmission ASTM E96
- Hydrostatic Pressure Resistance ASTM D5385
- •Hurricane Missile Impact ASTM E1886-19, ASTM E1996-17
- •Fire Rating ASTM E119
- •NFPA 285 Compliant
- •R-Values 11 to 16
- •WUFI Hygrothermal Modeling
- •Glumac Study for Embodied and Operational Carbon





Recap

- When to consider Design Assist
- How to start the conversation with a prefabricated building provider



Open Q&A

Questions? Please contact:

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