



THE UNIVERSITY  
OF ARIZONA

# APPLIED RESEARCH BUILDING

DATE: 01/10/22-01/16/22

PHASE: Project Overview



Facing North View



Facing South View

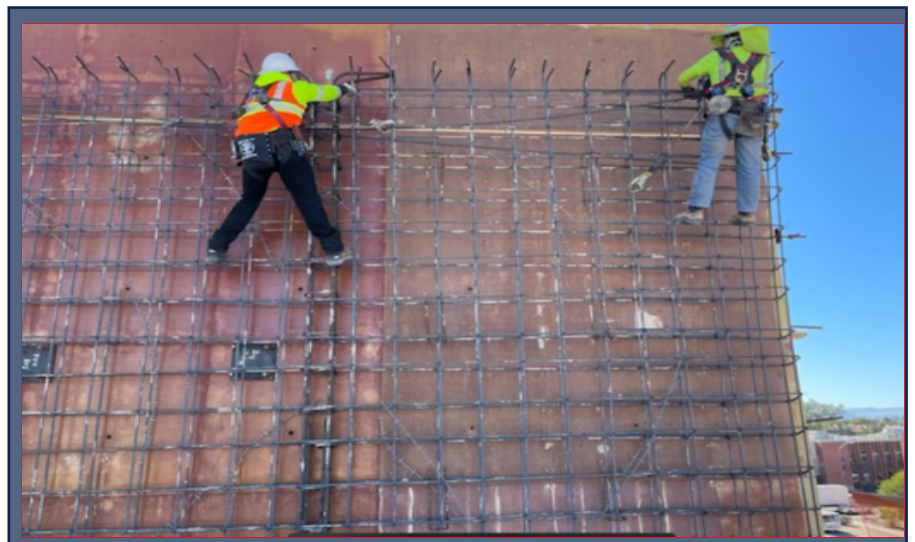


McCarthy + SmithGroup  
ARB Design Build Team

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DATE: 01/10/22-01/16/22

PHASE: Reinforcing Steel



Core Wall-1



Core Wall-1

**Fun Fact:**

Level 3 floor height is approaching the top of the Highland Garage and AME building. Level 4 contains the majority of the mechanical infrastructure for the building.

All rebar on the vertical components shown in the Core Wall-1 pictures have bent bars which will overlap into the horizontal bars that tie into the concrete deck above.



# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: Interior Framing



Rated Walls Prep for Paint



Rated Walls Tape and Prep

### **Fun Fact:**

The first interior framed wall is in the hallway on the northwest side of Level 1. This wall will allow for a major portion of the overhead mechanical duct, piping, electrical racks, fire sprinkler and more to begin to be installed.

# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: Concrete



Level 3 Columns and Walls



Level 3 South Slab Finishing

**Fun Fact:**

Level 3 concrete is complete.  
Over 110,700 cubic feet of  
concrete have been poured to  
date at ARB!



# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: Form Work



Stripping L3 Shear Wall-1



Closing L3 Shear Wall-2

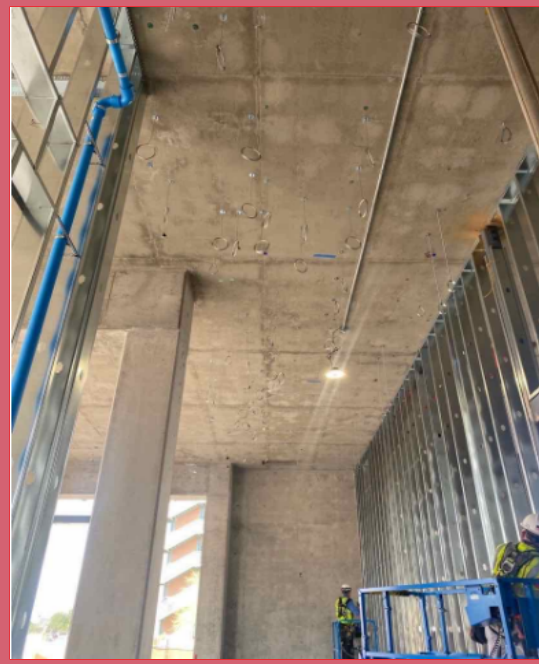
**Fun Fact:**

Level 3 is approximately 5' shorter than the remaining floors, the ceiling is 15' high, while the remaining levels have 20' ceiling heights.

# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: Mechanical, Electrical & Plumbing



Mechanical Duct Hangers



Fire Sprinkler Main Line

**Fun Fact:**

During the pre-installation period, the sequence is coordinated among all of the build partners. At ARB, the fire sprinkler system will be installed first, closest to the deck, followed by electrical and mechanical duct.



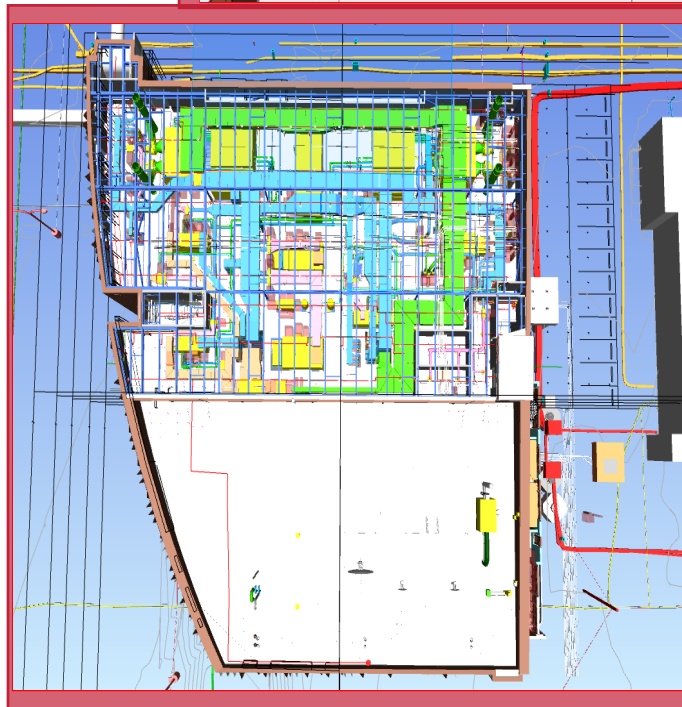
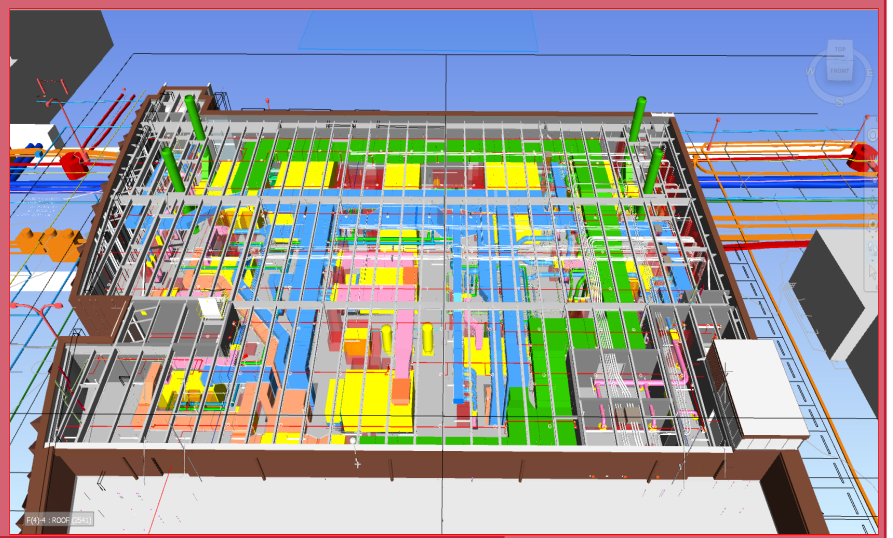
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# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: Building Information Model



Level 4 BIM Finalized

**Fun Fact:**

Building Information Modeling (BIM) provides a virtual look into a building before it is built.

The ARB Design Build team conducts a final BIM review with Planning, Design & Construction inspectors & engineers and Facilities Management staff prior to each phase.



# APPLIED RESEARCH BUILDING

DATE: 01/17/22-01/23/22

PHASE: **What's next?!?**



- Structural Steel.
- Exterior Wall Framing.
- Level 3 Vertical pours.
- Level 4 Shoring.
- Level 4 Concrete Pour.
- Architectural Building Mock up.
- Level 2 Re-shoring.
- Level 1 In wall electrical and plumbing.
- Level 1 Ductwork.
- Main Equipment Pads.



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