



THE UNIVERSITY  
OF ARIZONA

# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Project Overview



Facing North View



Facing South View



McCarthy + SmithGroup  
ARB Design Build Team

# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Reinforcing Steel



Flying Level 3 Walls



Pre-Fabricating Level 3 Walls

**Fun Fact:**  
The ARB team is flying the last vertical rebar components to prepare for the final vertical wall, column and deck pours.



McCarthy + SmithGroup  
ARB Design Build Team



# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Interior Framing



East Corridor



East Corridor

**Fun Fact:**  
Priority walls drive the interior construction sequence to allow other trades to integrate the mechanical, electrical and plumbing systems within, through and around the wall partitions.

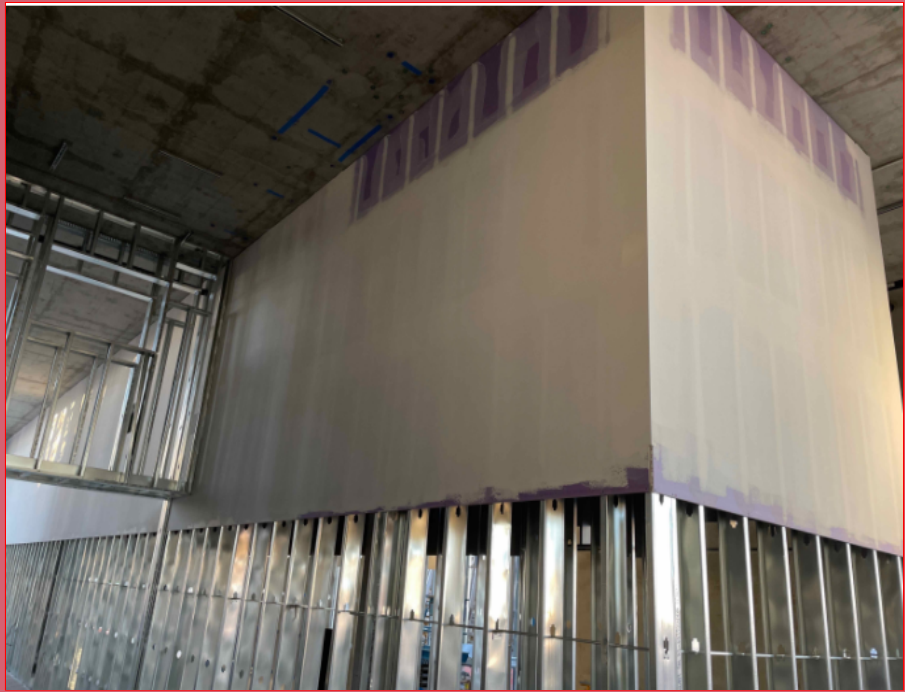




# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Interior Framing



Dry Wall Started - West Corridor



Dry Wall Started - West Corridor



McCarthy + SmithGroup  
ARB Design Build Team



# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Concrete



Stripping Core Wall-1



Stripping Level 3 Columns

**Fun Fact:**

ARB is quickly approaching vertical structure completion. The current Level 3 vertical walls & columns have been poured and are in the process of being stripped.



McCarthy + SmithGroup  
ARB Design Build Team

# APPLIED RESEARCH BUILDING

DATE: **01/24/22-01/30/22**

PHASE: **Form Work**



Setting Level 3 Columns



Stripping Level 3 Deck

**Fun Fact:**

The Level 3 southwest cantilever deck had to be supported by temporary 40' shoring towers supported directly from the engineered compacted soil below. This was a major challenge! The construction team had to work diligently with third-party inspection entities to ensure the safety of the activity. The engineering validated that the base materials below were sufficient enough to support the concrete material as it is poured and cured.



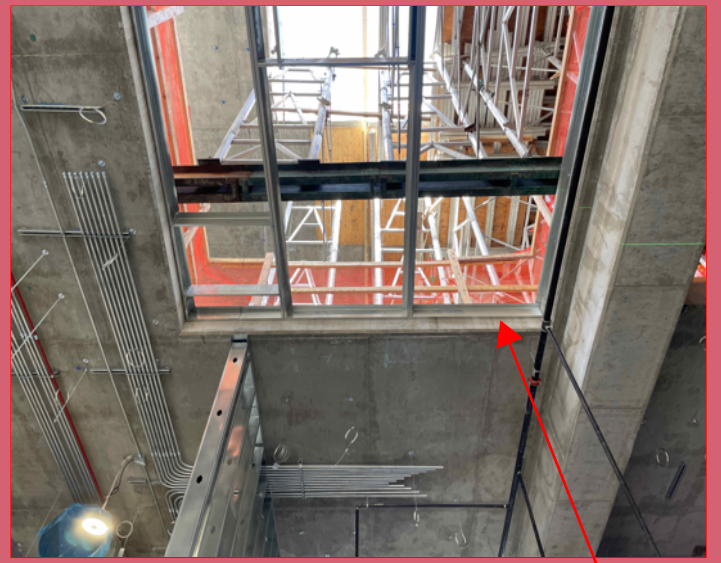
McCarthy + SmithGroup  
ARB Design Build Team



# APPLIED RESEARCH BUILDING

DATE: 01/24/22-01/30/22

PHASE: Mechanical, Electrical & Plumbing



Mechanical Shaft



Over Head Electrical, Plumbing and Fire  
Sprinklers

### Fun Fact:

Mechanical shaft openings in the building are stacked vertically to provide a continuous pathway for multiple sized ducts (called risers) to run through the floors to service air to/throughout the building from level 1 up to level 4.



# APPLIED RESEARCH BUILDING

DATE: **01/24/22-01/30/22**

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.**



**McCarthy + SmithGroup**  
ARB Design Build Team