



THE UNIVERSITY
OF ARIZONA

APPLIED RESEARCH BUILDING

DATE: **04/18/22-04/25/22**

PHASE: **Project Overview**



North Elevation View



South Elevation View



McCarthy + SmithGroup
ARB Design Build Team

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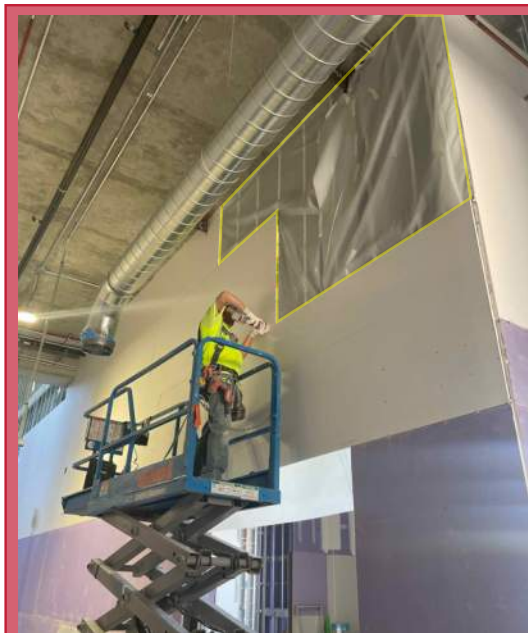
PHASE: **Level 1 Production Walls**

Production Drywall:

As mechanical, electrical, and plumbing overhead rough-in is completed on level 1, interior production drywall is hung, taped and painted. Upon the completion of production framing, interior finish installation will begin. Some interior finishes that will be entering the building are: ceilings, flooring and laboratory casework!

Fun Fact:

Some interior framed walls, such as the one imaged below, have a layer of thin plastic between the drywall and the metal studs. This is an added layer of water proofing protection to further reduce the chances for outside water from entering the space.



Production Drywall Hanging



Drywall Taping

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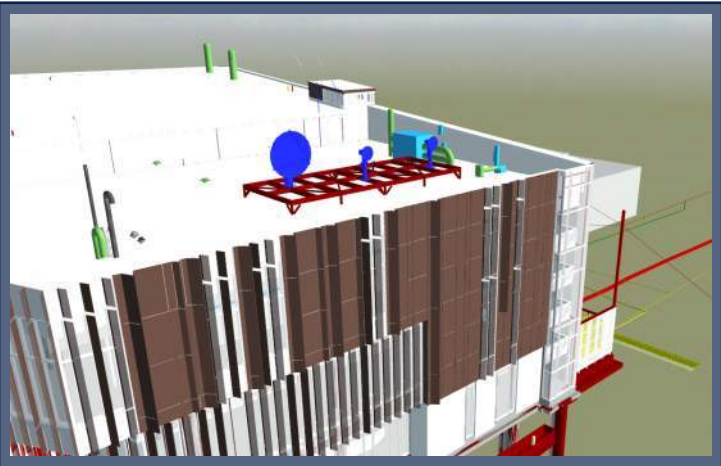
PHASE: **South Antenna Platform**

Fun Fact:

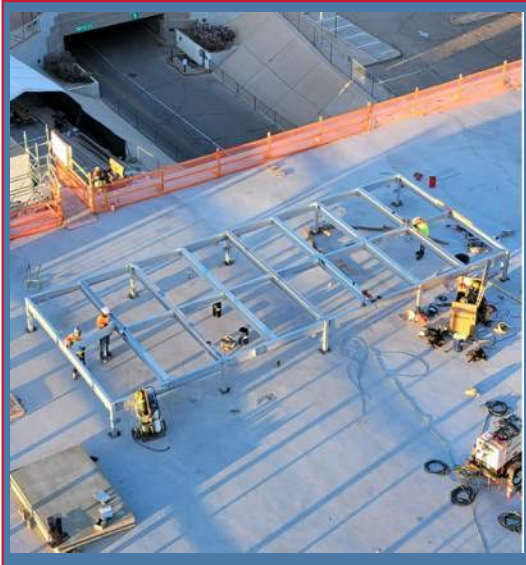
The antenna platform on the south side of the facility will house much of the infrastructure needed to operate in the Mission Control space. Additionally, with the inclusion of the raised access flooring and additional space available on the antenna platform, the Mission Control space has large amounts of flexibility to adapt to the needs of whatever the future mission needs may require!



Level 2 Mission Control Space Rendering



Model Rendering of Completed Antenna Platform



Aerial of South Antenna Platform



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PHASE: **East Yard Excavations & Concrete Pour**



East Yard Excavation

Fun Fact:

After completion of the Hydrovac operations last week, McCarthy has begun excavating the large foundations to support the East yard screen walls, LN2 Tank, and emergency generator yard. The two areas highlighted below in yellow are live electrical duct bank utilities that either feed the adjacent Annex Building or alternate University campus infrastructure to the South. The design-build team is proud to report the exposing of these live utilities was completed with zero incidents or injuries!



Aerial View of East Yard Excavation

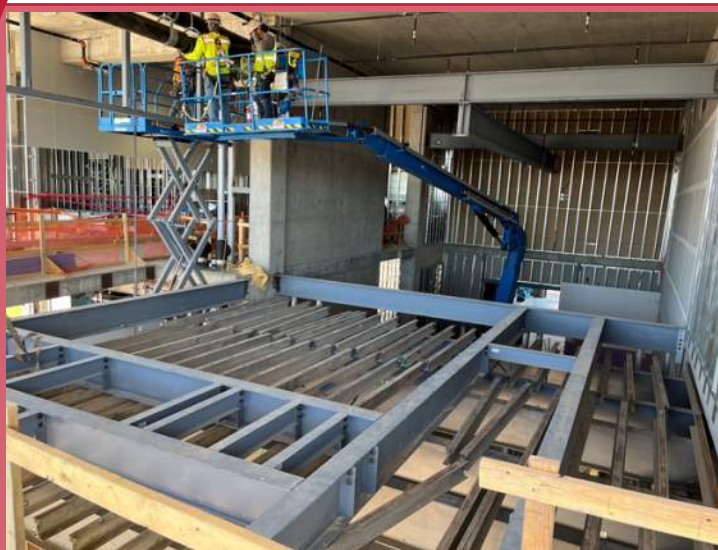
APPLIED RESEARCH BUILDING

DATE: **04/18/22-04/25/22**

PHASE: **TV Chamber Stripping**



South Elevation of the TV Chamber



Structural Steel OH TV Chamber (Future Grating)

Fun Fact:

A significant milestone at the UA ARB project this week, as the TV Chamber protection which was immediately installed upon the setting of the Chamber back in 2021 is being removed! For the first time, the TV Chamber can be viewed in its' new permanent home at the UA ARB!

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DATE: **04/18/22-04/25/22**

PHASE: **Kovach Mobilization**



Masonry (Blue) Waterproofing on L1



Metal Panel Facade (Gray) Waterproofing L2-3

Fun Fact:

The blue and gray paint being applied to the exterior of the building is a liquid waterproofing application. It creates a water-tight barrier preventing moisture from penetrating the building. The blue and gray waterproofing are the same product, however used in different applications. They blue waterproofing is used in areas where future masonry facade will be installed while the gray waterproofing designates areas of metal panel facade.

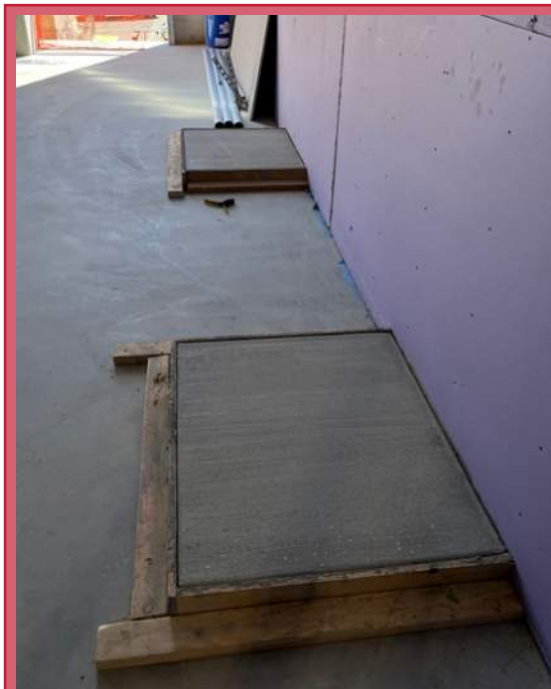
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PHASE: **Equipment Pads L1-3**



Finishing of L1 Concrete Equipment Pad



L2 Concrete Pad

Fun Fact:

For quality purposes, the design-build team has elected to refrain from stripping the 2x4 formwork around equipment pads until after scissor lift / heavy equipment work is complete in the space. This is done as to reduce the likelihood of chipping, spalling or other damages to the edges or sides of the equipment pads during interior build-out.

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PHASE: Employee Highlight: Framing Foreman



Employee Highlight - Efrain Gomez - Framing Foreman for E&K

Q: How did you decide to become a framing foreman?

A: Efrain is originally from Mexico City, MX where he planned on attending university to study Architecture. After learning the costs associated with attending higher education, Efrain changed paths and came to the United States in 2002. After arriving Efrain found his home in the framing trades. Efrain has worked for E&K for over 12 years now and through his hard-work has earned a foreman's position. Efrain has his aspirations set high as he plans to continue to grow in his career and work for E&K in an office setting!

Q. What is your favorite part about being a framing foreman?

A. Efrain loves construction but even more than his love for construction is his love for being challenged. He mentioned, "I get no greater satisfaction than building something everyone else thought to be impossible". Efrain is thrilled to be involved with the build-out surrounding the most unique piece of equipment he or his company has ever worked with: the TV Chamber.

Q. What has been your favorite part of the UA ARB Project?

A. This is Efrain's first time working in Tucson for the UA and with McCarthy Building Companies. He is so thankful for the opportunity this project has provided for him and his crew of over 30 men and women. Additionally, Efrain mentioned he is overjoyed to have met the amazing craft talent in Tucson. He hopes to continue to work in the Southern Arizona market in the future and to continue to expand his network with the top talent this region has available!



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



- Level 3 Wall Framing
- Level 4 Metal Pan Decking
- East Yard Reinforcing
- North Exterior Elevation Framing
- Level 1 & 3 Equipment Pads
- SW Elevation Structural Steel
- Trash Chute Installation
- Tower Crane Removal



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