Carleton College
Science Building Complex & Utility Master Plan
Weekly Construction Update

TODAY’S DATE: September 6th, 2018

Top Left: McGough’s masonry group has finished setting precast at the NW corner and has begun laying brick.

Top Right: Danny’s Construction has begun installing another catwalk that will connect the second floor of the new addition with Olin Hall.

Bottom: Similar to the hydro-mobile pictured last week, McGough has installed a hydro-mobile dedicated as a material lift on the East side of the addition by the new loading dock to bring materials to and from each level.
UPCOMING CONSTRUCTION ACTIVITIES: WEEKS OF SEPTEMBER 10\textsuperscript{th} AND SEPTEMBER 17\textsuperscript{th}.

Interior Layout/Exterior Enclosure: Danny’s Construction has finished erection of the new CS Box that will cantilever out from the 3\textsuperscript{rd} floor of Olin into the new atrium. Detailing and metal decking is approximately 98% complete. Danny’s is currently working to erect the steel in the café on the ground floor the atrium (see picture 2 on previous page). Olympic Companies (framing/drywall contractor) has almost wrapped up shooting clips and laying out studs in the penthouse of the new addition ahead of their fireproofing. They are continuing to fireproof the basement structural steel located on the interior of the building (approximately 95% complete). They are hard at work on the exterior metal stud framing and sheathing of the exterior façade as well as installing the level 1, 2, and 3 separation shaft walls parallel to Hulings and prior to West shaft duct work. They have also begun to frame, top off, and fire tape on 1\textsuperscript{st} floor – needless to say, they are staying awfully busy right now with a crew size of 26 workers, comprising the largest workforce from one subcontractor currently onsite! Swanson and Youngdale (air, vapor barrier, expansion joint, and waterproofing contractor) has been following Olympic closely behind by spraying the exterior sheathing with a spray-applied vapor barrier. While S&Y is hot on Olympic’s tail on the exterior of the building, Superl (firestopping) has been trailing close behind Olympic on the interior to install firestopping at the top of every wall as soon as the sheetrock is hung. Much like the name suggests, this would act as a fire barrier should a fire ever break out in any area of the building. McGough has begun setting door frames on the west side of the new addition on level 1.

Ahead of classes beginning, trades worked feverishly to wrap up underground utility work around the loading dock on the far East side of the building, between the new addition and LDC (known onsite by workers as “King’s Landing”). After Bolander was finished grading the area, Bituminous Roadways (asphalt paving) came through and paved out the entire loading dock allowing food service vendors to access the LDC dock, allowing them to stock up on food and beverages for the first week of fall semester. Harris (HVAC contractor) continues to run horizontal water lines through copper piping on the 1\textsuperscript{st} floor of the new addition. The most efficient way for multiple bricklayers to work in unison is by using a hydro-mobile lift; this lift is essentially a big platform that moves vertically up and down at the push of a button. In addition to the hydro-mobile at the NW corner assisting with the laying of brick for the next couple weeks, a larger hydro-mobile has been set up on the East side of the addition at the new loading dock solely dedicated to bringing materials to levels 1-3 and the penthouse. Work continues down in the East Energy Station with Harris and Gephart (Electrical subcontractor) continuing to rough-in their pipes and electrical conduit. Gephart dropped their electrical switchgear into the EES using an enormous 550-ton mobile crane. The switchgear is the most critical electrical component in the entire mechanical room. It is a large box shaped piece of equipment that is the combination of electrical disconnect switches, fuses, or circuit breakers that is used to control, protect and isolate mechanical equipment. In addition to the science building, we are continuing to drill vertical wells for the campus-wide geothermal heating and cooling system at the Bald Spot.

The campus, and surrounding neighborhoods, can continue to expect heavy multi-axle truck traffic next week as we continue to move material to and from the project site along Olin Road. Please note that steel erection, although finished, will continue to have delivery trucks make daily visits until the building is completely decked and detailed in the next couple weeks. Given the small laydown area, there is not adequate room to stage large quantities of material onsite at any given time. This requires our all vendors to coordinate “just-in-time” deliveries with the McGough Superintendents and Foremen in order to create an efficient and effective delivery and installation work flow. Now that steel erection has wrapped up, the largest deliveries that will make regular trips to the site are brick, granite, block, and mortar until the brick has finished on the exterior of the building.
are utilizing a small “boneyard” at the base of the tower crane where they are storing the steel going in that same day. As always, safety is our #1 priority on this project and all McGough projects alike. McGough takes safety very seriously and we strive to make sure every worker goes home safely each and every night. We have installed temporary provisions to protect all students and faculty from the increased traffic. We implore everyone to practice “Heads up Commuting” while walking or biking in this area. If you have any ideas on how to improve any of these safety measures as you come upon them, please speak up! Additionally, please feel free to tune in to Carleton’s live webcam to view our progress at the following web address: https://apps.carleton.edu/campus/doc/Sci_Plan_Const/Updates/

**Week of September 10th** — Geo well drilling process continues this week as well as wrapping up Volume 0 and the master utility plan process for Volume 1. Brick veneer will begin on the south elevation as well as exterior metal stud framing, interior metal stud framing, and East door frames will begin to be installed.

**Week of September 17th** — Geo well drilling process continues this week. Brick veneer will continue on the South elevation as well as beginning to set partial frames for the curtain wall at the NW corner. Shaft walls and sheet-rocking the top of the walls will continue this week. West Supply and exhaust duct will start to get installed along with South door frames.

**Upcoming Owner Coordination Items:**

- **Olin**
  - Completion of interior finishes of the Olin East ear muff *(Complete)*
    - Work to be performed outside the rooms. Noise and vibrations could affect the east corridors on all levels and rooms 116, 210, and 312.
  - Roof exhaust fan relocation *(Complete)*
    - EF-5 rooms B02, 4, 6 and 8 *(Complete)*
    - EF-3 rooms 306 and 308 *(Complete)*
    - EF-9 rooms B10, 12, and 14 *(Complete)*
    - Limited Access to room 310 *(Complete)*
  - Drill/Anchor curtain wall support angles at CS Box into Olin concrete beams *(TBD)*
    - All work to be done outside the rooms. Noise and vibrations could affect rooms 208, 210, 308, 310.

- **Hulings**
  - Demo/Install brick at North Egress stairwell windows *(Complete)*
    - All work to be performed outside of the rooms. Noise and vibrations could be heard within the stairwell.
  - Demo/install brick at North intersection of Addition and Hulings *(9/4 – 9/7)*
    - All work to be performed within the room. Noise and vibrations could be heard in rooms 300 and 303D.
This and next week’s highlighted focus: