

Member Communication Experience

Health and Life Sciences Building at Anne Arundel Community College

CMAA Sustainability Project Spotlight submitted by: Joyce Dawson, Assistant Director of Facilities Design and Construction, Anne Arundel Community College

Project Team

- » **OWNER:** [Anne Arundel Community College \(AACC\)](#)
- » **AE:** SmithGroup, Washington, D.C.
- » **BUILDER:** Whiting Turner, Baltimore, M.d.

Project Statistics

- » **USE:** Construction Instructional and Lab Building
- » **SIZE:** 175,000 square feet
- » **CONSTRUCTION VALUE:** \$96,000,000
- » **CERTIFICATION(S) TARGETED OR ACHIEVED:** LEED Gold

What is the most exciting sustainable feature of your project?

Optimizing energy performance was exciting in this project as it encouraged the college to consider systems not previously used in campus construction. For HVAC, radiant panels provide all temperature control via hydronic systems piped in a four-pipe arrangement to each zone for radiant cooling and heating. Because radiant panels are two-pipe devices, each room includes a control valve arrangement for water temperature control via injection of chilled water into the



radiant panel hydronic loop. Ventilation air is provided by a DOAS unit and ducted separately into the space through a VAV box. The system requires elevated chilled water temperatures to prevent panel surfaces from dipping below the space dew point temperature and causing condensation at the ceiling. The building is energy metered. As another important factor, attention was given to the building envelope.

What was the biggest challenge your team faced and how did you overcome it?

Construction was completed in a pandemic. Protocols were developed to monitor and keep the construction team safe. Procurement issues became critical in order to maintain the sequence and the schedule for the building. In the end, schedules were adjusted, sequencing was revised, and the project was delivered on time.

What would you have done differently if given the chance?

If funding had not been an issue, we would have made the building larger with more space unassigned to allow for future innovation and growth. ✍️



Health and Life Sciences Building - Northwest View



Health and Life Sciences Building - Southwest View

About the Project

CMAA has created the Sustainability Project Spotlight as a regular focus given to member projects nationwide that are building the way to a better future.

[Health and Life Sciences Building at Anne Arundel Community College \(AACC\)](#) is a 175,000-square-foot college instructional and lab building completed by the design team led by SmithGroup and builder team by Whiting Turner.

The CMAA Sustainability Subcommittee is actively seeking to spotlight your projects! Please email us at communications@cmaanet.org with a project name and person to contact.