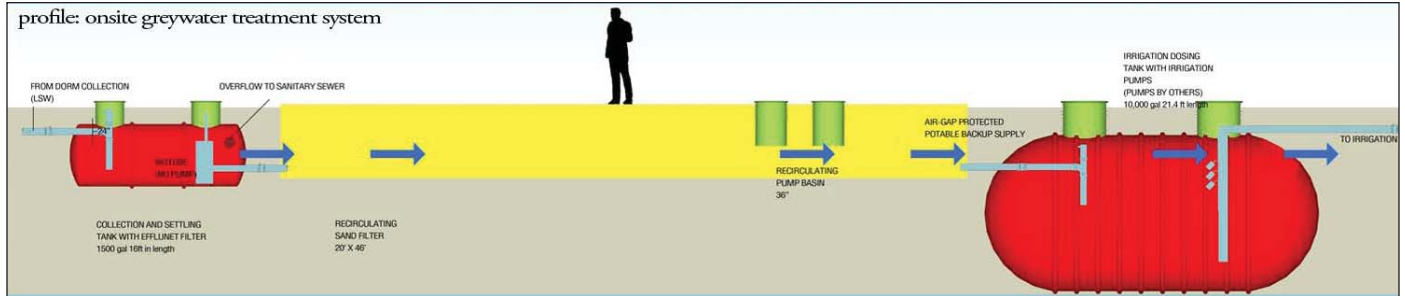


ARIZONA STATE UNIVERSITY

Greywater Treatment/Reuse System for Barrett, The Honors College at Arizona State University

Tempe, Arizona



ikon.5 architects

Arizona State University (ASU) is known for its commitment to Sustainability. Having established the first School of Sustainability in the country, ASU expanded with the development of the \$130 million LEED-certified campus for Barrett, The Honors College at ASU.

Located on ASU's Tempe Campus, Barrett's state of the art facilities include academic spaces, social, dining, and recreational facilities, as well as administrative offices and the Dean's office. Its architecture was designed to accommodate the sun saturated climates of the Southwest and incorporate local materials and regional concrete techniques. The expansion also included the Sustainability House at Barrett, touted as "the most comprehensive living and learning community in the nation devoted to sustainable living concepts.

Biohabitats designed a greywater treatment and reuse system

for The Sustainability House (campus buildings 7A and 7B). Greywater from building sinks, water fountains, and showers are captured and treated to a reuse standard suitable for irrigation supply. The greywater design flow is 10,000 gallons per day.

The onsite greywater treatment and reuse system incorporates an equalization and filtration tank, a recirculating sand filter, irrigation storage tank, pumps, and controls. The system, which helped the project earn its LEED Gold certification, supports the University's commitment to sustainability and serves as an example for campus housing.

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