

Crowell Quad Renovation

Program Need:

Crowell Quad is one of the first residential halls built on the West campus site during the early 1930's and has approximately 350 beds. The facility retains much of the original character from 80 years ago, but lacks the amenities that are common and expected at top tier university residence halls, such as air conditioning, fire sprinkler systems and updated electrical systems. The project program strives to bring Crowell up to modern facility standards as compared to other dormitories at schools similar to Duke University.



Project Scope:

The Crowell renovation includes the following:

- New HVAC system utilizing central chilled & hot water.
- Fire Sprinklers and an addressable alarm system.
- Upgraded electrical system.
- Updated plumbing system and bathroom facilities.
- Upgraded data/communication system to allow consistent internet network access in the building.
- Accessibility, per current ADA codes, within the renovated toilet rooms
- Inspection and needed repairs for exterior site lighting and storm/sanitary drainage systems.
- Interior architectural modifications, as required, to accommodate MEP and other infrastructure work, while maintaining historic character.

<i>Gross Square Feet</i>	<i>96,000</i>
<i>Const. Start</i>	<i>May 2017</i>
<i>Architect</i>	<i>Clark Nexsen</i>
<i>Constr Mgr</i>	<i>LeChase</i>

Architecture & Engineering:

The basis of the engineering design will be to provide the updated infrastructure systems noted in the project scope while maintaining as much of the architectural and historical character of the dormitories as possible. There will be no modifications made to the exterior architectural features of the buildings, landscaping will not be renovated and the roofs will not be replaced. Existing leaded glass windows will be restored.

Site/Location:

The West Campus residential quadrangle.

Sustainability:

This project will follow sustainable design and construction principles and track LEED credits based on LEED version 2009, but the project will not seek LEED certification. The energy target for Crowell is 64 KTBU/SF, which is 27% better than ASHRAE baseline.

