

Big Sandy Community & Technical College
Advanced Technology Center – Pikeville, KY

Owner: Kentucky Finance Cabinet - DECA
User Agency: KCTCS
Contacts: Paul Cable, Architect
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Building Area: 15,050 S.F.
Construction Cost: \$ 3,400,000
Project Status: Completed



Project Description:

Building will be one of three Broadband Technology Training Centers in the United States. It is the first building in the Eastern United States where the data wiring will be 100% fiber based from desk to routers. Programs include: High-Bay Training Area, Broadband Technology Classroom, Virtual Technology Classroom, Tiered Classroom, Office Suite, and Multi-Purpose Classrooms.

Engineering Highlights:

HVAC:

HVAC system is variable volume gas fired rooftop units with energy recovery. Individual spaces are controlled via individual VAV boxes monitored via the FMS system. Controls are full open protocol utility the latest from KCTCS standard specifications. JACE 7's will be purchased direct from KCTCS. Controls will be reviewed by the KCTCS Compliance Team during design. All CEMCS point naming conventions and needs are included in the project.

Electrical:

Lighting will be LED controlled via a network accessible low voltage control system with daylighting controls.

All new 480/277 volt electrical service entrance from AEP will be provided. Multiple levels of transient voltage surge suppression will be provided to protect all the sensitive electronics a building such as this contains.

Provisions for tiered classroom environment include motorized screens, video equipment have been incorporated into the electrical design.

Technology:

All data wiring within the facility is fiber based, the first in the State of Kentucky. A separate standalone fiber system has been provided for the broadband fiber training program area. Systems have been integrated to the adjacent Pikeville Campus building that shares the same site.