

## Rockcastle County High School

### *HVAC/Electrical/Roof Upgrade*

Owner: Rockcastle County Schools  
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Building Area: 105,000 s.f.

Construction Cost: \$ 5,407,000

Project Status: Under Construction

#### Project Description:

Large HVAC, electrical, data control, and roof replacement project. Project included phased construction for work to continue after summer break in the school



#### Engineering Highlights:

N3D group was the Prime Design Professional on this project.

#### HVAC:

Project included the complete mechanical room replacement of boilers, domestic hot water, pumps, and evaporative cooler. All above ceiling horizontal heat pumps were replaced throughout the entire school along with all new computer based control system. Existing makeup air units were replaced with new as the existing outside air system was not installed properly.

Project also included kitchen exhaust and makeup air system replacements.

The large amount of work above ceilings required that most the ceilings above the school being replaced.

#### ELECTRICAL/SYSTEMS:

Existing electrical service switchgear had to be upgraded to support new electric boilers. All new circuits to new variable frequency drives throughout the mechanical room.

New systems include a complete data cabling replacement with new CAT 6A data cables. A new PA system was installed in the gym.

Lighting replacement for the entire school was a one for one replacement with LED lighting inside all areas and exterior parking lot light poles were replaced as well.