



MNR Harmon Shop Replacement Program – Phase V, Stage I HVAC, Security, Communications, and Fire Alarm Engineering Design

The Harmon Shop is the busiest rail yard in the Metro-North Railroad network. Phase V Stage I was a design-build project resulting in two new buildings, an Electrical Multiple Units (EMU) shop, and a double-ended Consist Shop Facility. The Consist Shop Facility includes a ground floor, a partial mezzanine floor, and a partial second floor with a combined 132,000 sqft. The EMU includes a first floor and a second floor of 46,000 sqft. Energy consumption reduction measures include insulated roofing and increased natural lighting.

AG's role was to provide engineering design for HVAC, security and communications systems for both new buildings which integrated seamlessly with existing systems in place throughout the 100 acre Harmon Shop facility.

AG provided a comprehensive fire alarm design meeting current code requirements and unique MNR standards. AG further designed a state-of-the-art intelligent public address system, overcoming the ambient noise challenges inherent to a facility of its' type.

For security, AG designed CCTV and access control systems along with network and telephone infrastructure throughout the facility, which integrates into the enterprise-wide MNR network.



Location:
Croton-on-Hudson, NY

Owner:
MTA Metro North RR

Prime:
Jacobs

Constructon Cost:
\$248mm

Completion Date:
2019

Services Provided:
HVAC
Security
Communications
Fire Alarm

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