



Atlantic Health System

Morristown Medical Center
Overlook Medical Center

Chilton Medical Center
Hackettstown Medical Center

PROJECT INFORMATION

CONCORD DIVISION
Health Care & SciTech
Engineering

PROJECT LOCATION
Various, NJ

MARKET
Health Care/Hospital

SERVICES
MEP Engineering
Design Engineering
Energy Audit

ABOUT THE CLIENT

Atlantic Health System is a not-for-profit private healthcare company that operates hospitals and health care facilities in New Jersey.



PROJECT SUMMARY

Concord has completed numerous projects as full MEP ENGINEER OF RECORD within the Atlantic Health System. Highlighted projects include:

CHILTON MEDICAL CENTER (POMPTON PLAINS, NJ)

- ED COVID-19 MEP Infrastructure
- Hybrid Pediatric Emergency Department
- Main Emergency Department Renovation
- New Security Center
- MRI Replacement
- USPS 800 Pharmacy Renovation

OVERLOOK MEDICAL CENTER (SUMMIT, NJ)

- MEPF and Medical Gases – A/B Wing Expansion/Renovation
- Outpatient Neuroscience Renovation & Expansion
- Adaptable Acuity and Resiliency Study
- Energy Audit

MORRISTOWN MEDICAL CENTER (MORRISTOWN, NJ)

- 3,300 Ton East Chiller Plant
- 4,100 BHP Boiler Plant
- 160,000 CFM Custom AHU
- Emergency Power Resiliency
- 2020 PSE&G Energy Audit

HACKETTSTOWN MEDICAL CENTER (HACKETTSTOWN, NJ)

- Generator Replacement

(856) 427-0200
CONCORD-ENGINEERING.COM



Atlantic Health System Chilton Medical Center COVID-19 MEP Infrastructure

PROJECT INFORMATION

CONCORD DIVISION
Health Care & SciTech
Engineering

PROJECT LOCATION
Morristown, NJ

MARKET
Health Care/Hospital

SERVICES
MEP Engineering



ABOUT THE CLIENT

Chilton Medical Center is a 260 bed non-profit community hospital in Pompton Plains. It is the only hospital serving the Pequannock Township area.

REFERENCES

Robert Peake
VP of Facility
Management & Facilities
(908) 598-6690
robert.peake@atlantichhealth.org

PROJECT SUMMARY

In response to the COVID-19 pandemic, Concord was retained to re-engineer the MEP infrastructure of an existing emergency department, including new HVAC systems, upgraded plumbing and medical gas systems and expansion of the hospital's essential electrical and emergency power systems.

ENGINEERING SERVICES

For this project, the functional clinical plan:

- Creates multiple treatment/care zones that can be physically separated from and function independently of the other ED zones
- Entering patients are triaged and assigned to ED zone appropriate for his/her level of acuity and infection status. Patients triaged with possible or likely infectious disease are evaluated and treated in zone(s) with dedicated MEP infrastructure designed to mitigate airborne infectious disease transmission, such as the COVID-19.
- Dedicated HVAC systems have the ability to operate at increased room air change rates with 100% clean and filtered outdoor air with contaminated indoor air fully exhausted to outside.
- Upgraded medical gas and emergency power systems are provided to accommodate treatment of high-acuity patients (such as those requiring ventilators and extensive telemetry) in the ED during surge conditions.
- HVAC zones will match physical treatment/care zones and will each have pressurization controls to contain air within infectious disease zone(s) and to protect non-infected patients and clinicians in clean care zone(s).