

# MH Professional Engineering, PLLC



## SECURE FACILITIES PROJECT EXPERIENCE

### **STATE PREPAREDNESS TRAINING CENTER**

Oriskany, NY

- The State Preparedness Training Center, located in Oriskany, New York, serves as a hub for emergency response training for natural, technological, and terrorism-related disasters for first responders at all levels of government.
- The building's function is to serve as a training center for emergency vehicular operation. The building includes driving simulators, classrooms, and is adjacent to a repurposed airport runway system for actual driver training.
- The building design includes a VAV system for heating and cooling, a vehicle exhaust system, radon evacuation system; wet, dry and chemical sprinkler systems, emergency power system, fire alarm system and security system.



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### **REHABILITATE CELL BLOCK SHOWERS, GREAT MEADOW CORRECTIONAL FACILITY**

Comstock, NY

- Lead Mechanical and Plumbing Engineer.
- Replaced the existing inmate shower waste, vent/hot water and cold water risers from the fourth floor down to the sub-basement. Replacement in the sub-basement stopped at the existing mains.
- Retained the existing sanitary waste/vent risers serving the officer plumbing fixtures in the existing locations and enclosed existing risers within new pipe chases.
- Re-piped all domestic cold/hot water supply and the hot water return risers from the sub-basement up to the fourth floor showers within the new pipe chases.
- Provided new isolation valves for water supplies to new plumbing fixtures on each level. Insulated all new water piping and portions of existing piping at each connection.
- Provided new floor drains in the showers and in the shower dressing areas.
- Provided new water closet and sink installations for the officers at each level.
- Replaced the existing exhaust branch and main ductwork serving the inmate shower areas and correctional officer's toilet room.
- Replaced the existing exhaust mains and exhaust fan in the attic.



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## SECURE FACILITIES PROJECT EXPERIENCE

### **MACCORMICK SECURE CENTER**

Brooktondale, NY

- Designed a full sprinkler system for existing secure building.
- Project included fire pump system from an on-site pond.

### **GOSHEN SECURE CENTER**

Goshen, NY

- Designed a full sprinkler system for existing secure building.
- Project included extension of municipal water to facility with pump station.





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## SECURE FACILITIES PROJECT EXPERIENCE

### **WASHINGTON CORRECTIONAL FACILITY**

Comstock, NY

- Lead building systems engineers for the replacement of the Recreation Yard toilet facilities. The scope of work included the design of electrical, plumbing, and mechanical systems for the proposed toilet facilities. This work included upgrading of site lighting for the running track area and emergency lighting for the guard station in the Recreation Yard.
- In a separate project, MH Professional Engineering was the lead MEP designer for the upgrading of eighteen shower rooms in nine dormitories.
- In a recent project, electrical design was provided for the upgrade of the ventilation system in the weight room in Building 8.



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## SECURE FACILITIES PROJECT EXPERIENCE

### **BROOKWOOD SECURE CENTER**

Claverack, NY

- Brookwood Secure Center is a fully secure detention facility for boys. MH Professional Engineering provided lead electrical engineering services for the design of the facility-wide fire alarm upgrade project.
- There were existing buildings that did not have fire alarm protection and others that were not networked into the Central Secure Unit. The project included the installation of new fire alarm systems in four buildings and the networking of all existing fire alarm systems at the facility.
- Also provided lead MEP design services for the new laundry facility and upgrade to the existing UPS systems.

