

GOVERNMENT EXPERIENCE

General Office Building, Secondary Complex, Dimondale, MI

255,000 square foot project to upgrade the mechanical and electrical infrastructure for the 3 story building. HVAC system consisted of replacing and rezoning 175,000 square feet of office space with new VAV boxes to match the new floor layout. The heating system central equipment was completely replaced, controls valves were replaced in both the heating and chilled water systems and new air handlers were installed. The HVAC system was also installed to eliminate the pressure problems that were occurring in the building. Matrix Consulting Engineers, Inc. responsibilities also included plumbing, fire protection, lighting, power, fire alarm and data.

Operations Center, State of Michigan, Secondary Complex, Dimondale, MI

340,000 square foot project to convert existing warehouse to a two-story office building. HVAC systems consist of VAV with 12 air handlers utilizing central plant chilled water and high-pressure steam. Building is designed with an 8000 square foot computer room and provisions for future mainframe computer room of up to 24,000 sf. Matrix Consulting Engineers, Inc.'s responsibilities included all HVAC, plumbing, fire protection, lighting, power, fire alarm, and raceway systems for data, security, and telecom systems.

USPFO Readiness Center, Lansing, MI

120,000 square foot project which completely retrofits the mechanical and electrical systems of an existing three-story state office building into a multi-military unit readiness center for the Michigan Air National Guard, and Homeland Security. HVAC systems consist of four VAV air handlers utilizing central chilled water from a salvaged centrifugal chiller and new high efficiency condensing boiler for heating and domestic hot water. Six design alternates were included in the project to allow conformance to a strict budget. Matrix Consulting Engineers, Inc.'s responsibilities included all HVAC, plumbing, fire protection, lighting, power, fire alarm, technology, and raceway systems for data, security, and telecom systems, and data wiring.

State of Michigan - Mason Hall

The Steven T Mason Building project consists of renovating an eight story building plus basement area that is approximately 253,000 square feet gross area. The HVAC, plumbing, electrical, and fire protection design consisted of evaluating the existing systems to determine the condition of the associated equipment. The mechanical and electrical systems were replaced and upgraded both due to condition, age, and also to assist in achieving LEED silver. Throughout the project Matrix helped with value

engineering ideas to keep the project in budget. The design was performed in Revit with clash detection performed and adjusted as needed.