

The additions and renovations to the John J. Moran Medium Security Facility expand and upgrade common and administrative areas of this facility that houses Rhode Island's medium security prison population.

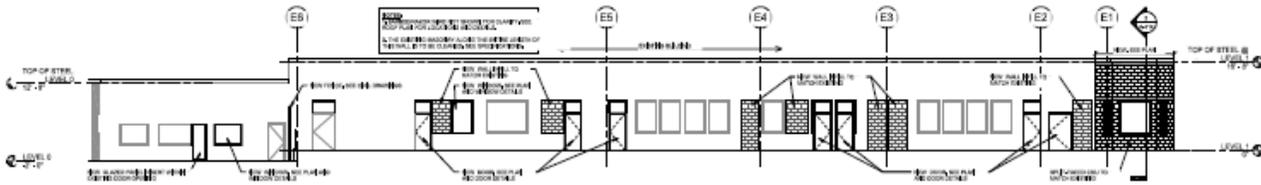


Steere Engineering worked with Saccoccio & Associates Architects to provide the structural design for the new addition and renovations to this existing, sprawling facility, constructed about 40 years ago. Structural work includes a new addition that houses the facility's kitchen, laundry and loading dock. Modifications were made to various structural systems of the existing building including masonry walls, steel beams and steel joints. Renovations include an enlarged dining room, a new independent storage mezzanine structure in the existing maintenance area, and various modifications to streamline and improve the functioning of the facility's administrative areas.

The addition is a single story, 16'-8" in height, steel framed system which is supported by interior steel columns and exterior masonry

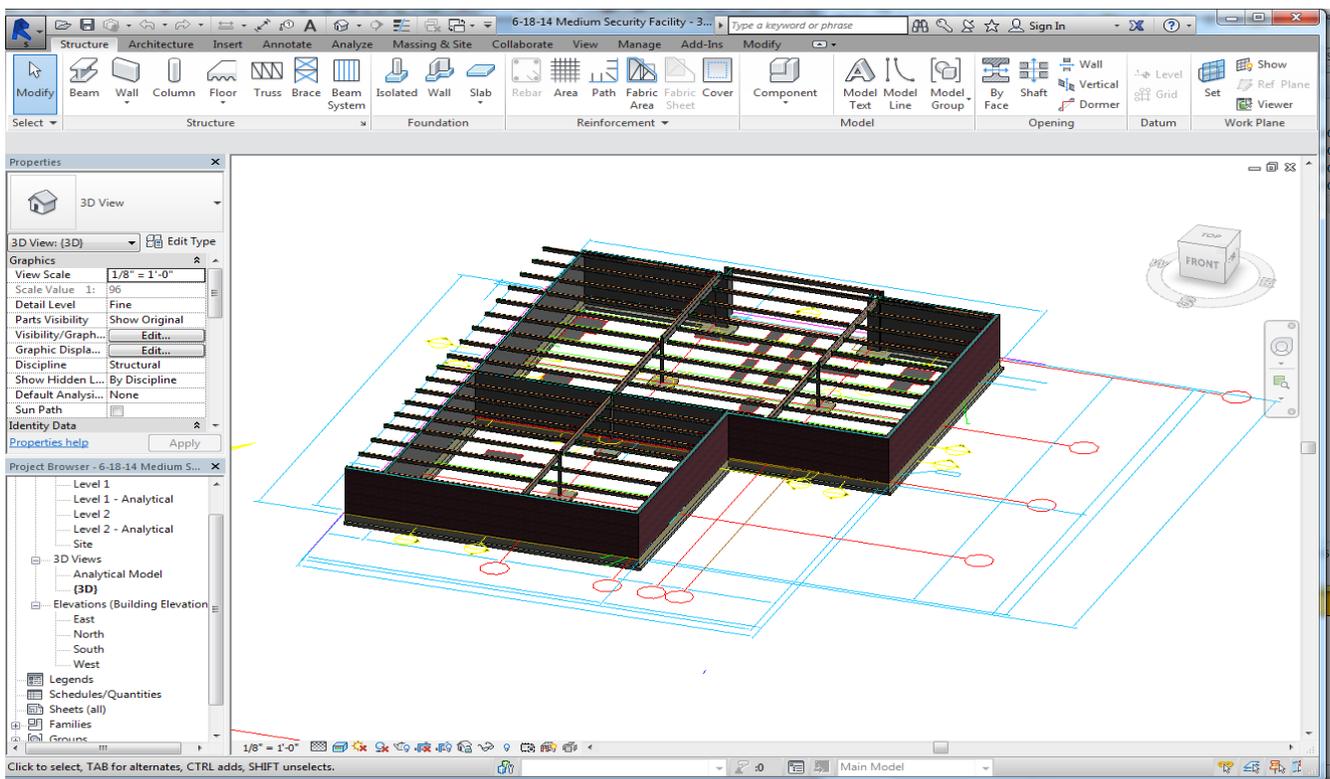


bearing walls. The lateral stability of the addition was provided by concrete masonry shear walls. The addition was designed to be structurally isolated from the existing building. A 40 feet wide opening was made in the existing exterior masonry wall to provide clear access between the new kitchen and the renovated dining room. Structural alterations to the existing building included the removal of masonry bearing walls to allow reconfiguration of interior spaces to suit the new architectural program. Existing steel joist and girder roof framing was modified in several locations to accommodate the removed bearing walls, new roof supported mechanical equipment and new skylights.



The facility's addition was modelled using **Autodesk Revit Structure** which allowed exchange of design information with the architectural team. Design and analysis were done using RISA Floor and RISA 3D which allows for smooth and efficient transfer of design information with the Revit Structure model.

Construction of the project is expected to begin in the near future.



**Owner:** RI Department of Corrections  
**Reference:** Mark Saccoccio  
**Phone:** 401-942-7970

**Design and Support:** 2014-2015  
**Construction Completion:** Ongoing  
**Project Cost:** \$8 Million