# Saint Vincent Health Center Infill Building Infill Building

Erie, PA

## **General Building Data**

Saint Vincent Health Center · Building Name:

· Location: Erie, PA Medical Occupancy Type: • Gross Building Area: 104,660 SF

3 (1 below ground) Number Of Stories: Total Building Cost: Approx. \$ 45 Mil.

7/10/2010 - 11/1/2011 (Estimated) Dates of Construction:

Project Delivery Method: Construction Management

#### **Architectural / Structural**

#### **Façade**

- Most will be 8" CMU with rigid insulation & a 2"stone veneer. Some places will be aluminum siding panels, and some brick veneer to match the adjacent Harder Building. Roofing
- Composed of W18x35 & W10x12 beams, W24x55 & W18x40 Girders. The roof structure will be steel composite decking with a concrete floor/roof. On top of the concrete there will be tapered roof insulation and an EPDM membrane roof.
- total levels (1 below ground). The structural system conof a steel frame structure supported by deep foundaons. Floors are framed with a 4" concrete slab on a 2" composite steel metal deck Steel beams and girders carry gravity oads to steel columns supported on concrete caissons.

#### **Project Team**

Saint Vincent Health Center Owner: Architect: Rectenwald Architects, Inc. Structural Engineer: **Atlantic Engineering Service** Mechanical Engineer: Karpinski Engineering **Electrical Engineer:** Karpinski Engineering **Urban Engineers Civil Engineer:** 

**Construction Manager:** E.E. Austin, Inc. Phase 1 Concrete: **Perry Construction Group** 

Site Utilities: Wm T. Spaeder Co. Phase 1 Caissons: G.M. McCrossin

## Mechanical System

#### Central Plant (lower Level)

- The new boiler plant will serve the existing hospital and future expansions. The control system will be an automated system.
- The Steam system with include (5) 350hp boilers with the space to add two additional 350hp boilers. The heating/reheat system will be served by two variable speed, based mounted, pumps, one pump will run while the other remains standby. Chilled water system:
- This new chiller plant will serve this addition & future additions. The chiller plant will have (2) 750 ton centrifugal chillers/pumps with space for one additional 750 ton chiller. There will be a new two cell cooling tower on the new ground floor roof.

## **Electrical System**

The existing hospital is served by two 36KV primary services and two 5MVA transformers. A single 4160V feeder will be serve a medium voltage load interrupter switchgear lineup located in the lower level of the addition. Emergency Power for the Hospital -The new addition shall include two new 1000KW generators and new paralleling switchgear. The parallel switchgear was sized to include the addition of one future 1000KW generator.

