# EMD Serono ResearchCenter -- existing |







# • Building Characteristics Info

56,700 sf size:

story: 2 story+basement+penthouse

occupancy: pharmaceutical lab \$15 million cost: delivery: fast-tract

Nov,1999 - March 2002 duration:

#### Project Team

owner: EMD Serono

architect: Ellenzweig Associate

landscape architect: John G. Crowe Associate

MEP engineer: Bard, Rao+Athanas Consulting Engineers structural engineer: LeMessurier Consulting Engineers

contrator: Linbeck/Kennedy & Rossi

# Construction

- The EMD Serono Research Center is a multi-phased pharmaceutical project, anticipated to total approximately 318,000sf.
- Phase 1 consists of the 56,700 sf Research Center existing lab building and a 17,000 sf Biotech Center.
- Subsequent phase will include 3 additional research and development building and an 80,000 sf processing facility. In addition, 600 parking spaces will be accommodated on site in a phased structure parking facility.
- The expansion of the exising lab building is currently under construction as of 2010.

### **Architectural**

- In 2002, the site accomodated both the EMD Serono Research Center existing lab building and a Biotech Center.
- Mechanical rooms are located on the basement and penthouse; animal facilities, research lab rooms, support rooms are located on the 1st and 2nd floor.
- The building facade is a combination of metal, brick, and glass. Aluminum sunshade is provided on north west cornor of the bldg.
- The building emphasis on the use of daylight for the labs and offices and maximize the views to the wooded countryside.

#### **Structural**

- The main structure of the building consists of structural steel columns, beams, decks, and concrete slab.
- The lateral force resisting system is a combination of diagonally braced frames and moment resisting connections.
- Typical office floor beam size is W18x35 on the east and west bays and W18x65 on the center bay.
- Typical girder size is W16x26.
- Typical column size ranging from W8x28 to W8x67 and W10x60 to W10x6.

#### Mechanical

- The building has 3 air handling units (AHU).
- AHU-1 supplies conditioned air to the research and develpment portion of the bldg.
- AHU-2 supplies conditioned air to offices.
- AHU-3 supplies conditioned air to mechanical rooms in the basement and animal rooms.
- One 350 ton centrifugal chiller is located in the basement.
- Two steam boilers and boiler feed water pump in the penthouse.
- A 350 ton cooling tower and a 60 ton air cooled chiller are located on the roof adjacent to the penthouse

#### Electrical

## **Electrical** Lighting

The primary electrical service is owned and maintained by Massachusetts Electric Co.

The primary transformer distributes 480/27 volt service to the building. The switchboard is 480/277V, 3phase, 4 wire, and 2400 amps

The emergency electric power is provided by the indoor diesel driven engine generator.

#### Liahtina

The primary lighting system is recessed mounted fluorescent fixture with size of 1'x4' and 2'x2'. In the area where recessed fixtures are not used, pendant mounted fixtures are used