

VA STATE CAPITOL Richmond, VA

Eric Fritz
Construction Management



Project Team

- *Owner: People of Virginia*
- *Owner Rep. – Department of General Services*
- *Arcitheat – Hillier Architecture*
- *CM – Gilbane / Christman Assoc.*
- *Structural Engineer – Robert Silman & Assoc.*
- *Mech. & Elect. Engineer – Joseph Loring & Assoc.*
- *Civil Engineer – Draper Aden Associates*



Mechanical and Electrical System

- *Mechanical*
 - *Demolition of existing equipment*
 - *Forced air handler units combined with a hot / cold water system.*
 - *7 100% Make-Up AHU's*
 - *8 Constant Volume AHU's*
 - *1 Variable Air Volume Unit*
- *Electrical*
 - *Demolition of existing equipment*
 - *5 Switchboards with varying amperes*
 - *208Y/120V, 3 Phase, 4 Wire System*
 - *42 Panelboards*

Project Overview

- *27,000 SF Subterranean Extension and a 90,000 SF Renovation.*
- *Total Construction Cost: \$64,800,000*
- *A CM at Risk project with a GMP contract being held with the owner.*
- *Construction Dates:*
 - *Extension: 7/19/04 to 12/1/05*
 - *Existing Capitol: 9/20/04 to 12/11/06*

Architecture

- *Existing Capitol:*
 - *Five story high structure*
 - *Jeffersonian Style Architecture*
 - *The facade is a three-ply stucco system*
- *Extension:*
 - *Two level subterranean structure*
 - *Exhibit space for artwork and historical items is the main feature.*
 - *High end materials will be used for the finishes.*

Structural System

- *Existing Capitol*
 - *Masonry Brick Foundation*
 - *Masonry Brick Structural Walls with stucco facade*
- *Extension*
 - *Structural concrete walls and slab on grade*
 - *Roof will be a concrete slab protected with waterproofing*
- *An elaborate soil retention system will be used to protect the Existing Capitol.*
 - *Consists of a slurry wall, jet grout columns, and compensation grouting.*