

# MEMORIAL HERMANN MEDICAL CENTER



Knowledge | Experience | Solutions

**BUILDING EXTERIOR SOLUTIONS**

A Terracon COMPANY

## PROJECT SUMMARY

The Memorial Hermann Texas Medical Center campus is comprised of five major sections which were constructed from the 1920s through 2008: Cullen Pavilion, Jones Pavilion, Robertson Pavilion, Hermann Pavilion, and the Heart and Vascular Institute. On September 13, 2008, Hurricane Ike impacted the Galveston coastline 50 miles south of the Texas Medical Center as a Category 2 hurricane. The hurricane force winds caused portions or whole clay roof tiles to disengage from the roofing systems and impact the exterior wall and roofing systems of the underlying buildings. Exterior wall glazing, skylights, and roofing damage was sustained throughout the complex. BES was retained as the engineer to evaluate, make repair recommendations, develop associated repair documents, and perform construction observations for the campus.

As a part of the repair design, BES's major concern was allowing the hospital to remain in operation with little to no disruption to the occupants and patients. In addition, BES strived to retain the existing aesthetics of the campus while providing effective repair solutions that would prevent future occurrences of global failure, as well as, provide long-term repair and/or replacement solutions. Special considerations for the project included existing asbestos containing materials within the building envelope systems, preservation of salvageable clay tile and architectural stone elements for reinstallation, constructability on steep slope roofing systems, internal drainage systems, historic structures, design for loads sustained from and coordination with Life Flight helicopter operations, construction observations impact on other systems (such as under deck fireproofing and MEP equipment), and limiting disruption of hospital operations during repair and/or replacement construction.



## PROJECT LOCATION

Houston, Texas

## OWNER

Memorial Hermann Hospital  
6410 Fannin St # 230  
Houston, TX 77030-3002

## CONTRACTOR

Manhattan Construction

## BES TEAM

Amy Peevey- Project Manager, Engineer,  
and Designer  
Jerry Abendroth- Project Designer

## PRACTICE AREAS

Mitigation Services  
Forensic Evaluation  
Repair Design Documents  
Field Testing  
Contract Observation

## TYPE OF CONSTRUCTION

Renovation/Restoration

## PROJECT SIZE

210,000 sq. ft.

## COST OF CONSTRUCTION

\$12.5 million

## SUBSTANTIAL COMPLETION

January 2010



## Building Exterior Solutions

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