Tobin Center for the Performing Arts

100 Auditorium Circle, San Antonio, TX

Architecture

New multipurpose auditorium positioned at a 75 degree angle to the existing south facade.
Back of the orchestra level will be at the same level as the existing lobby.
Studio Theater to be located within the historic west facade & a new Event Plaza alongside the river walk.

Lighting + Electrical

Utility Network: CPS Energy
(4) four submersible, dry-type main service transformers, each rated at 13.8 kV, 480/277V.
Two main switchboards are located in the basement.
MB-1: 4000A, 480/277V, 3-Phase, 4W+Gnd., 150kAIC, 20% growth capacity for future expansion
MB-2: 3000A, 480/277V, 3-Phase, 4W+Gnd., 150kAIC, 10.2% growth capacity for future expansion

Mechanical

Air distribution system is comprised of multiple (12) variable volume air handling units.
Displacement ventilation utilized beneath auditorium seating.
Central plant provides chilled water, condenser water, heating hot water and coil reheat/dehumidification.
HVAC runs on a Building Automation System

Structural

Steel braced frames. Concrete slab cast on composite metal deck diaphragm attached to steel floor members.
Metal deck diaphragm attached to roof members.

Statistics

Size: 172,970 gsf
Number of Stories: 6+1 basement
Estimated Cost: $135 million
Occupancy: Assembly Group A-1
Delivery: Design-Bid-Build
Construction Dates: Jan 8, 2010 - July 29, 2014

Overview

Owner: Bexar County Performing Arts Center Foundation
Construction Manager: Linbeck
Architect: LMN Architects
Civil Engineer: Pape-Dawson Engineers, Inc.
Structural Engineer: Walter P. Moore
Mechanical Engineer: Timmons Designer Engineers
Electrical Engineer: TTG Goetting

South facade view from Auditorium Circle

Laura Ashley A. Alferes | Lighting + Electrical
http://www.engr.psu.edu/ae/thesis/portfolios/2014/laa5098/index.html