

**PROJECT SIZE**

Main Stage Orchestra Lift

**EST. CONSTRUCTION COSTS**

\$200,000

**COMPLETION DATE**

September 2008

**CLIENT**

Van Wezel Performing Arts Hall  
777 North Tamiami Trail  
Sarasota, Florida 34236

**OWNER**

Van Wezel Performing Arts Hall  
777 North Tamiami Trail  
Sarasota, Florida 34236

**PROJECT DESCRIPTION**

Biller Reinhart Structural Group, Inc. provided structural engineering design and renovation services for the removal of the existing hydraulic orchestra lift and replacement with electric lifting mechanisms. The new lifting mechanisms employ a coiled, flexible flat steel spring that expands with the insertion of a thin vertically-oriented spiral steel band. The result is a fully rigid column formed of continuous integrated I-shaped sections. Other structural elements required for the installation of the new lift system included shoring of the existing lift framing structure, mounting plates and concrete footings to support the new lifts, reinforcing of the existing guide system, and validation of the lift framing structure for imposed loadings.

