

MGM NATIONAL HARBOR

Location: National Harbor, MD - Leuterio Thomas (LT) is the Associate Structural Engineer, providing the design for the 3,000 seat theater for the MGM casino. With over 200 foot long trusses - spanning over the main event floor, is a design feat. The Facility with transpormable feature of converting from a concert hall to a boxing event or a large banquet accommodating approximately 108 tables, requiring retractable seating at the orchestra level. Tight coordination with the Architectural team is key to the success of the design.

In addition, the five story Marquee tower with LED light display will house large chillers and generators. The Structure requires close coordination with the Architects in locating the structure with its proximity to the proposed water feature. Large cantilevered steel frames provided the required design intent.

The Structural drawings were developed in Revit and Structural software that moves the design back and forth with the Revit model, so there is less redline and mark-up, saving design time and coordination. LT's team

are in constant coordination with the Architects, Theater designer, MEP and other consultants to achieve the design intent, due to its aggressive design schedule. LT delivered on time and within budget.

KEYWORDS

- Structural Engineering
- Construction Admin
- Theater Design
- VIP Entrance Canopy
- Marquee
- BIM Team Integration



**Images courtesy of SmithGroupJJR/HKS*