



**Pickett, Kelm & Associates, Inc.**  
Consulting Structural Engineers

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# Gupton Stadium

**PROJECT LOCATION:** CEDAR PARK, TX.

**PROJECT OWNER:** LEANDER ISD

**DESIGNER/BUILDER:**  
AMERICAN CONSTRUCTORS, INC.

**ARCHITECT:** PFLUGER ASSOCIATES

**COMPLETED:** 2010

**CONSTRUCTION COST:** \$18,865,500



## PROJECT DESCRIPTION:

Pickett, Kelm & Associates provided structural engineering design services for this 10,200 seat football stadium and ancillary facilities totaling about 30,800 square feet. The project includes a turf field; a 3,550 square foot pressbox; two field houses; six restroom buildings; two concessions buildings; four ticket booths; ramps, retaining walls and stairs; flatwork; surface parking; water quality ponds; site retaining walls; and roadways. The project was delivered on a Design-Build basis.



The grandstand cross aisles and lower seating rows consist of ground-supported concrete, with aluminum seating benches. The lower edge of the seating is supported by, and cantilevered over, a cast-in-place concrete retaining wall. Cast-in-place concrete walls were also provided at the ends of the lower seating decks. The upper seating consists of aluminum seating decks supported by galvanized steel framing and a combination of galvanized steel and concrete columns, designed by the grandstand manufacturer. The front wall of the upper seating, along the cross aisles, consists of reinforced concrete masonry.

The pressbox consists of a steel framed roof, with a composite steel framed floor supported by structural steel columns. Two tilt-up concrete towers provide resistance to lateral loads. A topping slab on corrugated steel formdeck supported by light gage steel stud walls was used to construct elevation changes. The pressbox foundations consist of grades beams and drilled piers into limestone. A gathering area, consisting of a precast concrete roof slab supported by tilt-up wall panels, was provided at ground level between the towers.

The concessions, restroom and ticketing buildings consist of either wood-framed or pre-engineered wood trusses supported by uninsulated tilt-up concrete panels. The field houses consist of pre-engineered wood trusses supported by insulated tilt-up wall panels. The tilt-up panels were constructed with form liners and self-consolidating concrete to provide the appearance of limestone masonry. Ground level floors consist of ground-supported slabs with shallow foundations consisting of grade beams acting as strip footings. Foundation retaining walls were provided as necessary to accommodate the proposed grading.

Walls around the stadium generally consist of limestone rock MSE retaining walls, except for cast-in-place concrete walls at the home side field house and the athletics office. Ramps and stairs within the stadium were constructed of concrete.

