



## KIA Stamping Building

Lagrange, Georgia

**The Rammed Aggregate Pier® system was installed to support foundations for the \$1.2 billion KIA manufacturing plant and to provide engineered settlement control**

**Description:** The Geopier Impact® system was installed to support this single story, 230,000 sq ft manufacturing facility. This building is one of six buildings at this KIA manufacturing plant. The Rammed Aggregate Pier® (RAP) elements were also installed to support the Assembly Building, welding shop, paint shop, Mobis Building and the Glovis Building.

**Subsurface Conditions:** The subsurface profile consisted of loose to medium dense sandy silt and silty sand (residual) to the maximum explored depth of 60 feet below ground surface.

**Geopier Solution:** Over 3,500 RAP elements were constructed to support this manufacturing facility with a heavily loaded floor slab with pressures up to 6 ksf. The 20 inch diameter RAP elements extended to depths of up to 33 feet below the bottom of slab elevation. The Impact pier spacing ranged from four to eight on-center depending on pressures. Three construction crews worked simultaneously at this site to exceed the construction schedule demands.



### PROJECT TEAM

**Owner:**

KIA Motors Corporation

**Geotechnical Engineer:**

S & ME, Inc.

**Structural Engineer:**

CH2M Hill

**General Contractor:**

AMCO, Inc.

**Geopier Installer:**

Peterson Contractors, Inc.

**Geopier Designer:**

GFC-Southeast