



## US 90A at State Highway 6 Sugar Land, Texas

### Project Team

**Owner:** Texas Department of Transportation  
**Geotechnical Engineer (Instrumentation):** Tolunay-Wong Engineers  
**Structural Engineer:** Chiang, Patel, & Yerby, Inc.  
**General Contractor:** W. W. Weber LLC  
**GFC Installer:** Peterson Contractors, Inc.  
**GFC:** GFC Houston

### Project Notes

As part of investigating transportation options due to explosive growth in the Houston area, the Federal Highway Administration and Texas DOT made the decision to fund a Geopier RAP demonstration project with extensive settlement monitoring and an instrumentation program. Various alternatives, such as lengthening a bridge structure to span areas of soft, compressible soils, were carefully evaluated by Texas DOT. At the conclusion of the comprehensive evaluation process, the Geopier® Rammed Aggregate Pier System™ was awarded the project to support the MSE retaining walls/embankments, as this solution was significantly less expensive.

## Casino Queen Hotel & Casino East St. Louis, Illinois

### Project Team

**Owner:** Casino Queen Hotel & Casino  
**Geotechnical Engineer:** SCI Engineering, Inc.  
**Structural Engineer:** Kuhlmann Design Group, Inc.  
**General Contractor:** Clayco  
**GFC Installer:** Foundation Service Corporation  
**GFC Designer:** GFC St. Louis

### Project Notes

A chief concern for this project was the potential for liquefaction in the loose to medium dense sand underlying the site. The Impact® Rammed Aggregate Pier™ System was selected to deliver cost-effective liquefaction mitigation and to provide settlement control for spread footings and mat foundations loaded to pressures of up to 5,000 psf.



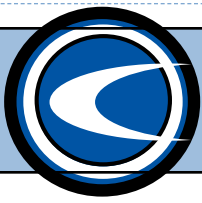
## Certainteed Manufacturing Plant Terre Haute, Indiana

### Project Team

**Owner:** Certainteed Manufacturing  
**Geotechnical Engineer:** S & ME, Inc.  
**Structural Engineer:** Hussey, Gay, Bell & DeYoung, Inc.  
**General Contractor:** Trident Construction  
**GFC Installer:** Foundation Service Corporation  
**GFC Designer:** GFC Great Lakes

### Project Notes

The Geopier® Rammed Aggregate Pier™ System was awarded the project by the design/build team as a result of supplying a solution offering a more low-cost and time-saving option as compared to expensive deep foundations. The RAP installation on this site supported 5 feet of new fill, floor loads of between 500 to 1,000 psf and maximum structural loads on column and wall foundations on the order of 350 kips and 5 klf, respectively.



## Victory Wind Farm Carroll & Crawford Counties, Iowa

### Project Team

Owner: MidAmerican Energy  
Geotechnical Engineer: Terracon  
Structural Engineer: Barr Engineering, Inc.  
General Contractor: D.H. Blattner & Sons  
GFC Installer: Peterson Contractors, Inc.  
GFC Designer: GFC Midwest, Inc.

### Project Notes

The Geopier® Rammed Aggregate Pier™ System provided a cost-effective solution to increase bearing capacity and control settlement for 42 wind tower foundations. The RAP installation eliminated problems associated with differential settlement in the soft clay and provided a high level of dynamic stiffness for the foundations.



## Lincoln Place Loveland, Colorado

### Project Team

Owner: Lincoln Place, LLC  
Geotechnical Engineer: Ground Engineering Consultants  
Structural Engineer: Alliance Structural Engineers, LLC  
General Contractor: Greystar Construction  
GFC Installer: Peterson Contractors, Inc.  
GFC Designer: GFC Midwest, Inc.

### Project Notes

As originally designed, the project was over budget with the proposal of costly drilled pier, deep foundations. A re-evaluation by the owner and general contractor incorporated a value engineering alternative consisting of shallow foundations supported by the Geopier® Rammed Aggregate Pier™ System. Use of the RAPs reduced construction costs, facilitated conventional foundation construction and compressed the construction schedule.



## Contact Your Local Central Region Geopier Foundation Company Representative Today

### GFC Great Lakes

Jim Bullard, P.E.  
Kentucky, Central Illinois, Indiana,  
Southern Ohio and West Virginia  
317-861-9361  
jbullard@geopier.com

### GFC Midwest

Charles Allgood, P.E.  
Minnesota, North Dakota and  
South Dakota  
763-416-2136  
geopier@comcast.net

### GFC Midwest

Steve Weyda, P.E.  
Northwestern Illinois &  
Wisconsin  
262-628-1663  
geopier@charter.net

### GFC Houston

Tommy Williamson  
Texas, Oklahoma and Louisiana  
281-852-5878  
tlw90@aol.com

### GFC Midwest

Aaron Gaul, P.E.  
Colorado, Kansas and Western  
Missouri  
816-421-4334  
geopier@kc.rr.com

### GFC Midwest

Dick Gernant, P.E.  
Iowa and Nebraska  
515-224-6130  
geopier.gernant@mchsi.com

### GFC St. Louis

Renee Guttman, P.E.  
Southern Illinois and Eastern  
Missouri  
618-659-2045  
rguttman@geopier.com

### GFC Michigan/Northern Ohio

Steve Werling, P.E., LPG  
Michigan and Northern Ohio  
734-418-2250  
stevewerling@geopier.com

### GFC Chicago

Fran Miller, P.E.  
Northeastern Illinois  
630-665-8585  
fmiller@geopier.com

### GFC Midsouth

Matt Caskey, P.E.  
Arkansas, Mississippi and  
Tennessee  
901-309-3363  
mcaskey@geopier.com



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