



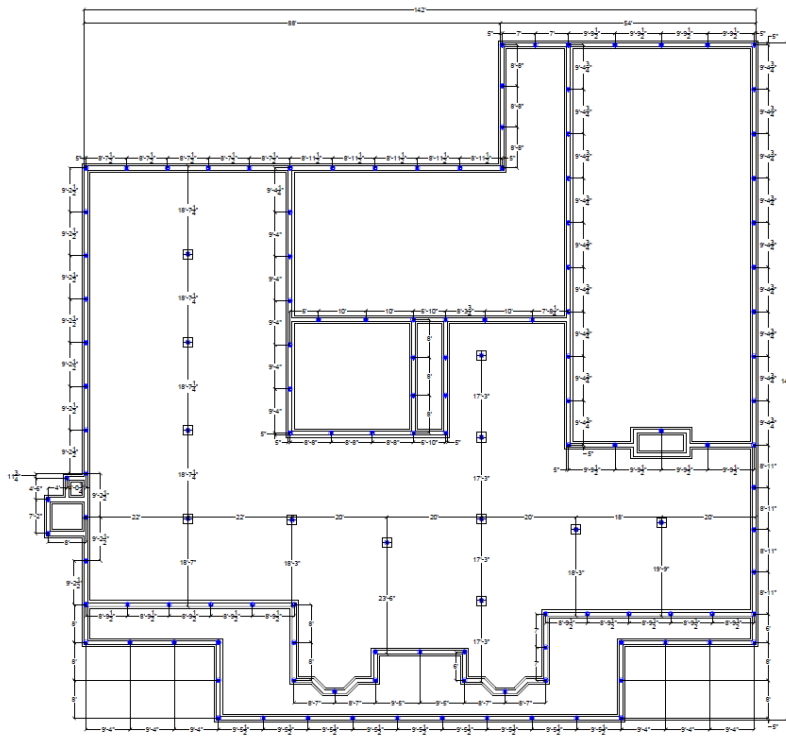
# CASE HISTORY

*SAFEBASE™ 2.875" STANDARD DUTY HELICAL PIERS*

## 131 HELICAL PIERS INSTALLED IN 9 DAYS, LAKEVILLE INDIANA



A&M Home Services was contacted by Heritage Builders regarding a new foundation to be designed for a home in Lakeville, Indiana using helical piers. SafeBasements created a set of plans which were approved for the project. The plan consisted of 131 SafeBase 2.875" OD Standard Duty Helical Piers to be used to support the footings for the home. The project started in August of 2018 and was completed in nine days.



**HELICAL PIER DESIGN CRITERIA**  
 The estimated combined live and dead load is 5,300 pcf. This results in a load of approximately 33 kips per pier. The SafeBase 2.875 OD Helical Pier has an ultimate capacity of 117 kips. Each pier must be installed to a minimum torque of 7,400 ft-lbs, such that the bearing capacity is 66 kips. Resulting in the bearing capacity having a minimum factor of safety of 2.

**1 HELICAL PIER PLAN**  
 Scale: 1/8" = 1'-0"

|                  |                     |           |                   |
|------------------|---------------------|-----------|-------------------|
| SafeBasements    |                     | Scale     | 1/8" = 1'-0"      |
| Drawn By         | AKM                 | Date      | 07/27/2018        |
| Checked By       | AKM                 | File Name | 21320 Surface Ave |
| Project Location | 21320 Surface Ave   | Revision  | 1/1               |
|                  | Lakeville, IN 46536 |           |                   |



A decision was made to raise the grade throughout the whole home to keep the footings out of the water table. Six inches of #8 aggregate was then added to the base. The piers were installed to depths ranging from 14 to 21 feet at a torque of approximately 7,400 ft-lbs per pier, resulting in the piers having an ultimate capacity of 66.7 kips per pier. The foundation will now be safe to support the home for generations to come.

**A&M**

**A&M Home Services**  
 602 E Jefferson St.  
 Plymouth, IN 46563  
 574-914-4408

[www.roofsandbasements.com](http://www.roofsandbasements.com)

**SAFEBASE**  
 FOUNDATION REPAIR PRODUCTS

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