Cool and Cobb Engineering Company

Date: 10/17/2025 Job: 25-1393

Job: <u>Bruce & Natalie Park</u>

Location: 1522 SW Santa Fe Dr., Fort White, FL 32038

PUSH PIER DESIGN ANALYSIS

The load requirements for the pilings designed to assist in supporting the identified areas of the subject residence were determined. The selected piling locations and the specific piling are identified on the Pier Identification and Location Plan attached. The calculated total loads on the piles in the specific location, including both dead and live loads are documented in the attached table which is designated as Attachment "A". Based on the total load requirements for each of these piles, the push pier driver is to be employed. The push pier driver should be employed with a calculated load of 2.640 lbs., which will provide pile capacity, including the 2 to 1 safety factor of 5.280 lbs. which is greater than the maximum calculated total load of 2.640 lbs. which occurs on the pile identified as no. __1__. Based on this analysis, the use of the push pier driver for the ECP piles with a specific load of 5.280 lbs. and a minimum depth of 15' is approved and certified as meeting all the requirements of the Florida Building Code 2023 8th Edition, and good engineering practice. This is not to be the primary support structure, but a supplement support to assist in support of the weight of the structure, which will reduce the total pressure on the existing soils. After completion of installation, Cool and Cobb Engineering Company shall be supplied with a drilling log of the location and depths of each pile installed so they can evaluate the installation and prepare the "As Built" drawings.

General Notes:

- 1. A log of each pile to be kept by Contractor noting depth for each pile.
- 2. Piles installed less than 48" apart are to be battered 10° away from each other.
- 3. All pile calculations are based on a maximum spacing of 8'-0".
- 4. This design is based on the loads of the structure placed on the shallow soils under the structure.
- 5. No deep soils geotechnical testing information was provided for this design.
- 6. This design does not address any possible sink hole activity as defined in Florida Statute § 627.706.

10/17/2025

Kenneth F Wheeler, P.E. State of Florida Professional Engineer No. 60417

This item has been digitally signed and sealed by Kenneth F. Wheeler, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

203 W. Main St. Avon Park, FL 33825 Office: (863) 657-2323 Fax: (863) 657-2324

Contractor: Foundation Professionals

Legend

Foundation

Push Piers

Interior Wall

enoi wan

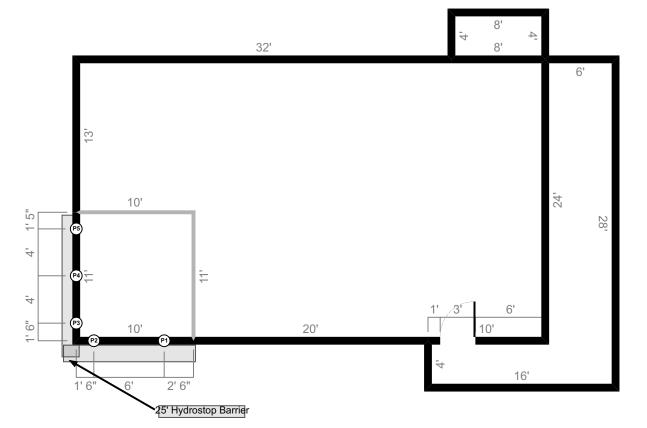


Kenneth F. Wheeler, PE #60417 Cool and Cobb Engineering Co. 203 W. Main Street, Avon Park, FL 33825

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CCEC # 25-1393





Cement Block frame Age: 1986 Foundation: Pier and Beam Siding: Wood Panels Roof: Metal

FPI to install: Up to (5) ECP 250 Push Piers

Park- Foundation Repair



Foundation Professionals of Florida CGC#1522700

3309 SW State Road 247 Lake City, FL 32024 www.foundationprosfl.com (386) 755-3002

Project Address

Bruce & Natalie Park 1522 SW Santa Fe Dr Fort White, FL 32038 (904) 708-2525 | jbetts@eehomesjax.com

Created By

Brandon Gregory (386) 755-3002 estimates@foundationprosfl.com Created 7/3/2025

Cool and Cobb Engineering Company

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Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD
1	2,640 lbs
2	1,730 lbs
3	1,250 lbs
4	1,920 lbs
5	1,650 lbs

Maximum Total Load on Pile:

2,640

lbs

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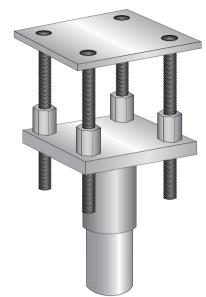
Cool and Cobb Engineering Co.
203 W. Main St.

Avon Park, FL 33825



The ECP Concentric Pier

The Patented ECP PPB-250 concentric pier is the latest in steel resistance piering. The unique design and engineering allows you to use ECP push pier technology directly beneath the load or footing. The steel pier design penetrates the soil deeply beyond the active expansive clay soils to a true end bearing configuration. ECP, the leaders in steel pier technologies, has created the strongest and deepest driving concentric pier system on the market today!



Another Choice for Foundation Repair Underpinning!

No longer do you have to settle for weak, shallow driving under footing piers. The PPB-250 pier system drives deeper, lifts larger loads and is more stable than any other concentric pier on the market. The engineers at Earth Contact Products developed this pier to be placed directly under loads for crawl space applications, limited access areas and slab on grade homes.

The PPB-250 steel pier was designed to be the strongest foundation pier in the industry by combining galvanized steel pier material with a manifold lifting system. It is installed centrally beneath the footing rather than outside of the footing, thus transferring the structural load directly on top of the pier bracket. Our concentric pier system will achieve the greatest depth while installed in a position to provide the greatest support.

Designed to be the strongest foundation structural support in the industry

- Made of galvanized steel pier material
- Sturdy enough for commercial foundations
- Uses hydraulic manifold lifting system
- Installs with industry leading 10,000 psi system
- Designed by engineers for homeowners

Creates a deep foundation that exceeds your home's original structural strength!

EARTH CONTACT PRODUCTS

1-866-327-0007

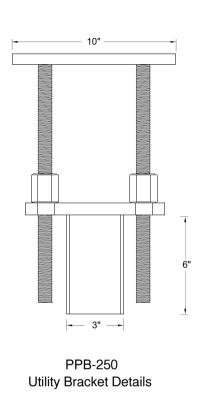
15612 S Keeler Terr. Olathe, Ks 66062 Phone:913-393-0007 Fax:913-393-0008 info@getecp.com www.getecp.com

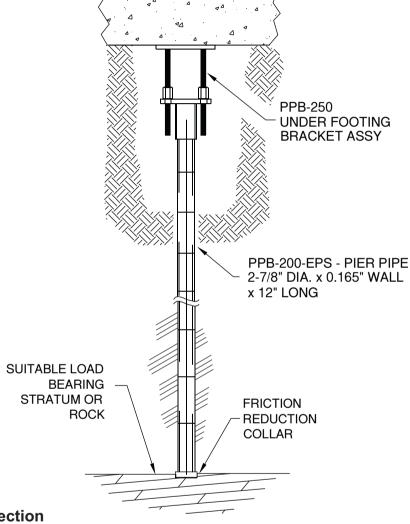


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ECP Steel Pier ™ - PPB-250 Utility Bracket Pier System



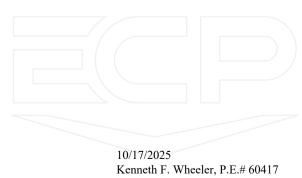


- Ultimate Capacity 54,000 lb
- Fully Adjustable Unlimited Lift Capability
- Installs From Outside or Inside Structure
- Friction Reduction Collar On Lead Pier Section
- Installs With Portable Equipment
- Installed With Little or No Vibration
- Installs To Rock or Verified Load Bearing Stratum
- 100% of Piers Field Load Tested During Installation

EARTH CONTACT PRODUCTS

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