Cool and Cobb Engineering Company

Date: 5/23/2024 Job: 24-1200

Job: Marcia Kazmierski

Location: 600 NW Clubview Cir., Lake City, FL 32055

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 20,400 lbs., which will provide pile capacity, including the 2 to 1 safety factor of 40,800 lbs. which is greater than the maximum calculated total load of 20,400 lbs. which occurs on the pile identified as no. 2 . Based on this analysis, the use of the push pier driver for the ECP piles with a specific load of 40,800 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.

5/23/2024
Kenneth F Wheeler, P.E.
State of Florida
Professional Engineer No. 60417

Digitally signed by Kenneth F Wheeler
Date: 2024.05.23 16:39:05 -04'00'

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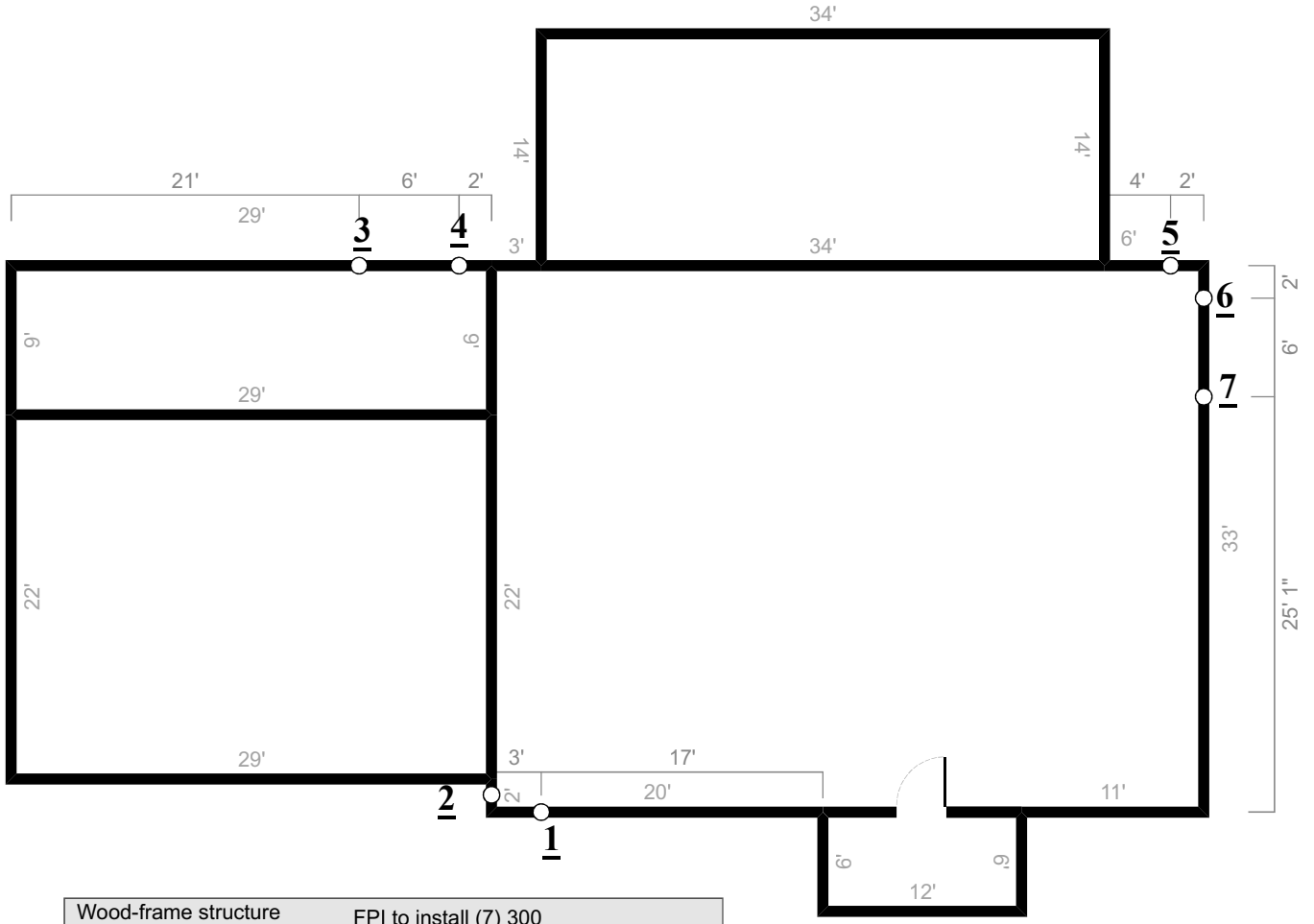
203 W. Main St.
Avon Park, FL 33825
Office: (863) 657-2323
Fax: (863) 657-2324

Contractor: Foundation Professionals

Legend

Foundation

Exterior Pier



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5/23/2024
Kenneth F. Wheeler, P.E.# 60417
Cool and Cobb Engineering Co.
203 W. Main St.,
Avon Park, FL 33825

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Kazmierski - Foundation Repair

Foundation Professionals of Florida
3309 SW State Road 247
Lake City, FL 32024
www.foundationprosfl.com

Project Address
Marcia Kazmierski
600 NW Clubview Cir
Lake City, FL 32055

Created By
Conner Rawlins
(904) 515-8680
5/10/2024

Cool and Cobb Engineering Company

Date:	5/23/2024	Project #	24-1200
Job:	Marcia Kazmierski		
Location:	600 NW Clubview Cir., Lake City, FL 32055		

Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD	
1	16,200	lbs
2	20,400	lbs
3	10,500	lbs
4	18,300	lbs
5	16,200	lbs
6	12,000	lbs
7	16,800	lbs

Maximum Total Load on Pile: 20,400 lbs

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5/23/2024

Kenneth F Wheeler, P.E.

PE# 60417

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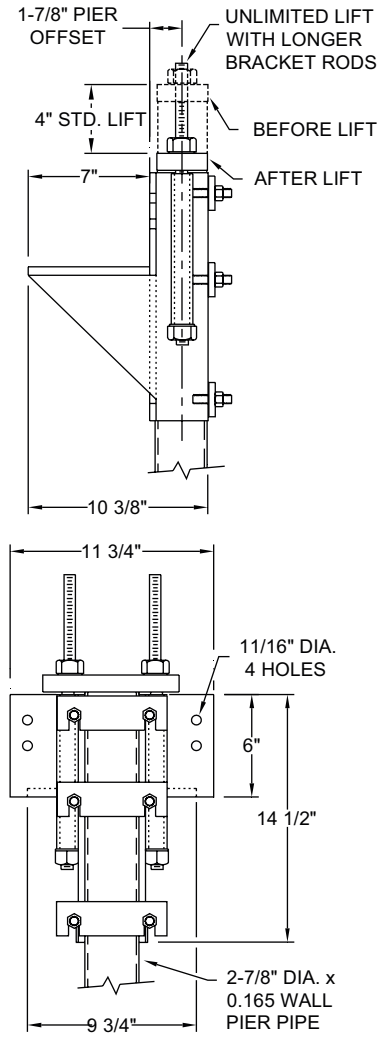
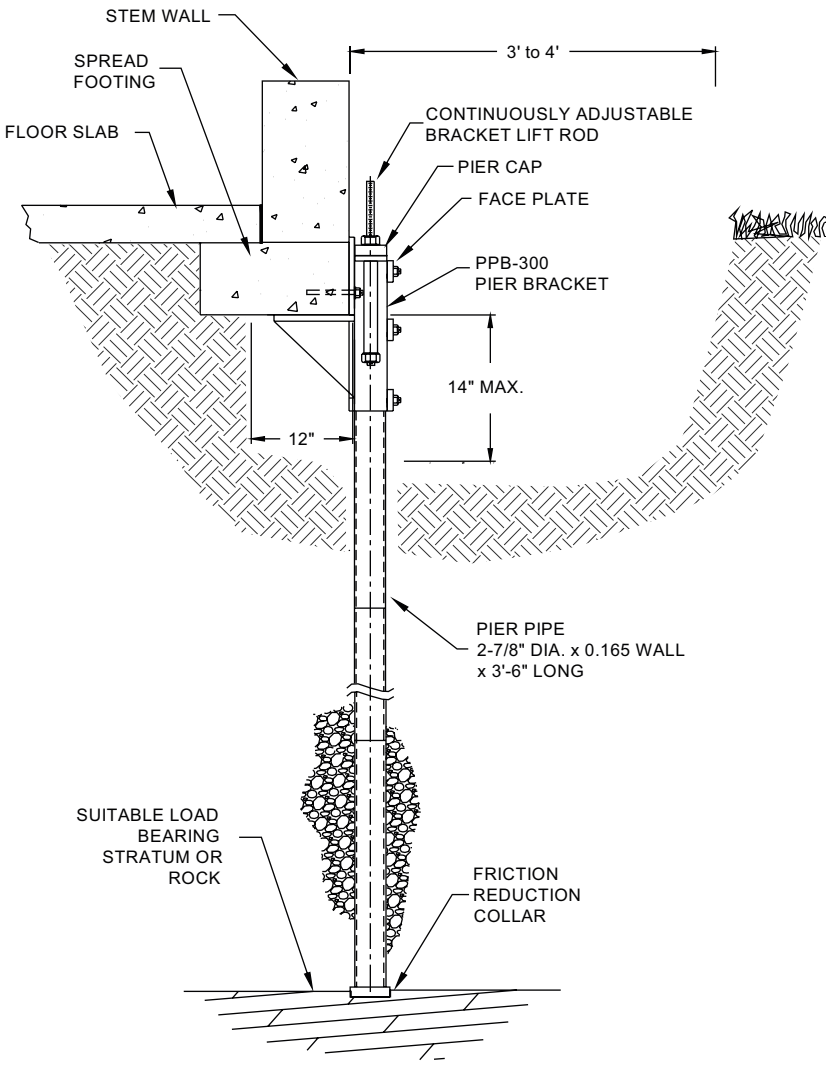
ECP Steel Pier ™ - PPB-300 Pier System



PPB-300
Utility Bracket Details



PPB-300 Utility Bracket
Application Drawing

- Ultimate Capacity – 68,000 lb
- Standard Lift – 4”
- Fully Adjustable Unlimited Lift Capability
- Installs From Outside or Inside Structure
- 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
1-866-327-0007
15612 S Keeler Terr.
Olathe, Ks 66062
Phone:913-393-0007
Fax:913-393-0008
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www.getecp.com

PPB-300 -- Underpinning Bracket

5/23/2024
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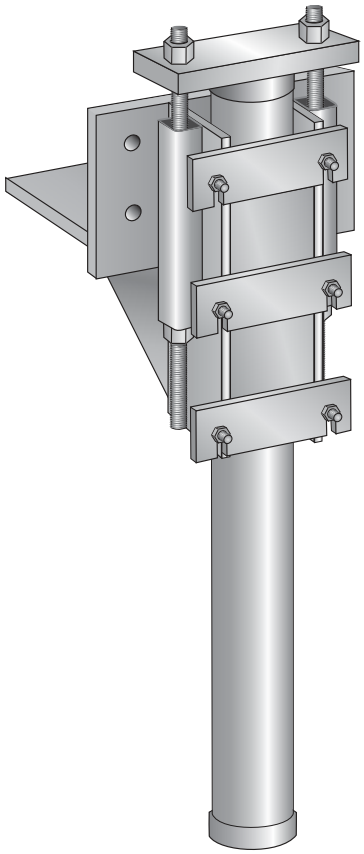

Product Specifications	
Product Style	Underpinning Bracket
Component	PPB-300 Steel Pier
Capacity	68 Kip
Lift Capacity	Fully Adjustable for Unlimited Lift
Coating	Black (Optional Hot Dip Galvanized)
Pier Pipe Spec	ASTM A500
Pier Pipe Size	2-7/8" OD x .165 wall x 42" long
Standard Package	8
Standard Package Unit	Each Bracket w/ 14' of pier material
Weight	138 lbs. (1104 lbs per pallet)

Notes

Underpinning Bracket Assembly

Optional: PPB-300-IP and High Strength Non-Shrink Grout