Cool and Cobb Engineering Company

Date: 2/18/2025 Project: 25-1075

Job: Jeanette Wilkinson

Location: 382 SW Whitetail Cir, Lake City, FL 32024

CRAWLSPACE JACK DESIGN ANALYSIS

The load requirements for the Crawl Space Jacks designed to assist in supporting the identified areas of the subject residence were determined. The selected Crawl Space Jack locations and the specific Crawl Space Jacks are identified on the Jack Identification and Location Plan attached. The calculated total loads on the Crawl Space Jacks in the specific location, including both dead and live loads are documented in the attached table which is designated as Attachment "A". This Crawl Space Jack design 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 and reduce deflection in beams. After completion of installation, Cool and Cobb Engineering Company shall be supplied with a log of the location of each Crawl Space Jack installed so they can evaluate the installation and prepare the "As Built" drawings.

General Notes:

1. The Crawl Space Bracket attached in this design is approved as minimum size required for the loads.
2. Top plate to be secured to beam by one of the below methods:
   Steel Beam – Field spot weld, min. 2 locations each jack.
   Wood Beam – (2) Min. 2 ½" length deck screw
3. Assumed allowable soil loading of 2,000 psf.
4. A log of each Crawl Space Jack to be kept by Contractor.

2/18/2025

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

Digitally signed by Kenneth F Wheeler
Date: 2025.02.18 06:17:22 -05'00'

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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

New CS Jack

New S3x5.7 Steel Beam

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Date: 2025.02.18 06:17:49 -05'00'

2/18/2025
Kenneth F. Wheeler, P.E.# 60417
Cool and Cobb Engineering Co.
203 W. Main Street,
Avon Park, FL 33825

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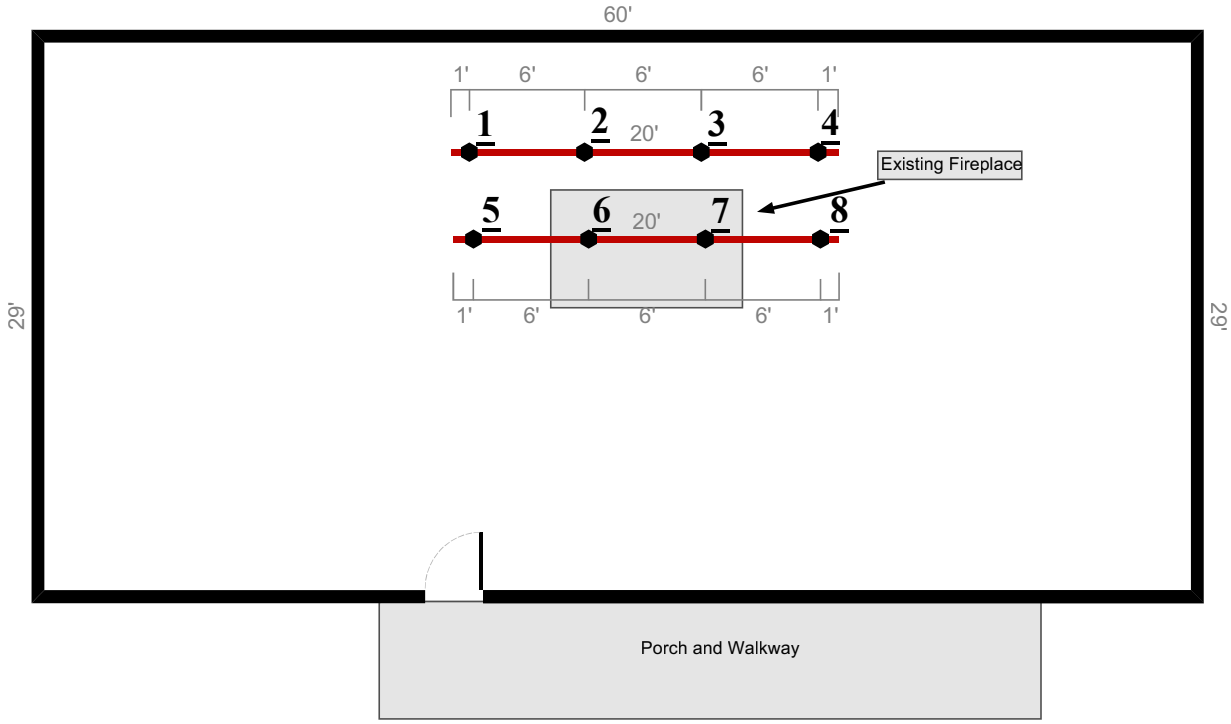
Wood-frame structure
Age: 2007
Foundation: Pier-and-beam
Crawl Space Height: 22"
Siding: Hardy Board
Roof: Metal

FPI to install (40) LF of 4" x 6" Steel I-beam and up to (8) PPB-107 Crawl Space Jacks



Wilkinson - Crawl Space Repair (Revised)

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

Project Address
Jeannette Wilkinson
382 SW Whitetail Cir
Lake City, FL 32024
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Created By
Conner Rawlins
(904) 515-8680
crawlins@foundationprosfl.com
Created 2/12/2025

Cool and Cobb Engineering Company

Date:	2/18/2025	Project #	25-1075
Job:	Jeanette Wilkinson		
Location:	382 SW Whitetail Cir, Lake City, FL 32024		

Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD	
1	1,070	lbs
2	1,600	lbs
3	1,600	lbs
4	1,070	lbs
5	1,070	lbs
6	2,600	lbs
7	2,600	lbs
8	1,070	lbs

Maximum Total Load on Pile: 2,600 lbs

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PE# 60417

Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

EARTH CONTACT PRODUCTS, LLC

Product Datasheet

PPB-103 & PPB-107--Crawl Space Jack

2/18/2025
Kenneth F. Wheeler, P.E.
PE #60417
Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

PPB-103

PPB-107

Product Specifications	
Anchor Style	Resistance
Component	Crawl Space Jack
Ultimate Capacity	60,000 lbs.
Shaft Material	3-1/2" O.D. x .165" Wall
Bearing Plate Size	5" x 6"
PPB-103 Baseplate	3-1/2" x 3-1/2"
PPB-107 Baseplate	7" x 7"
Threaded Rod	1-1/4" x 10"
Coating	Galvanized
Standard Package	Each

Notes

Pre-cast or poured footing provided by contractor.

2/18/2025
Kenneth F. Wheeler, P.E.
PE #60417

Cool and Cobb Engineering Co.
203 W. Main St.
Avon Park, FL 33825

TAKE YOUR SUPPORT TO THE NEXT LEVEL

ECP's new Footing Pad for supplemental support replaces the need to handle concrete or crushed gravel in confined crawl space areas. The 24" round composite Footing Pad has a capacity of 9,327 lbs. with a 3:1 Factor of Safety when used on 3,000 psi soil. This load is backed up by the ICC and ESR-2147.

ECP is offering the Footing Pad at two different price points. Full skid quantity is 68 pieces, and full skids will be priced at per Footing Pad. For quantities less than 68, the Footing Pad will be each. Please contact ECP to order your Footing Pad and Crawl Space Supports today.

Part #	Description	Qty	Price	Bulk	Price
PPB -107-FP24	24" Footing Pad for use with PPB -107	1 - 67		68 Per Skid	