

# Cool and Cobb Engineering Company

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Date: 7/25/2023  
Job: David Smith  
Location: 1018 SW Walter Ave.,  
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 2020 7<sup>th</sup> 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. A log of each Crawl Space Jack to be kept by Contractor.
2. Assumed allowable soil loading of 2,000 psf.

7/25/2023

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




Digitally signed  
by Kenneth F  
Wheeler  
Date: 2023.07.25  
15:47:50 -04'00'

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

## Legend

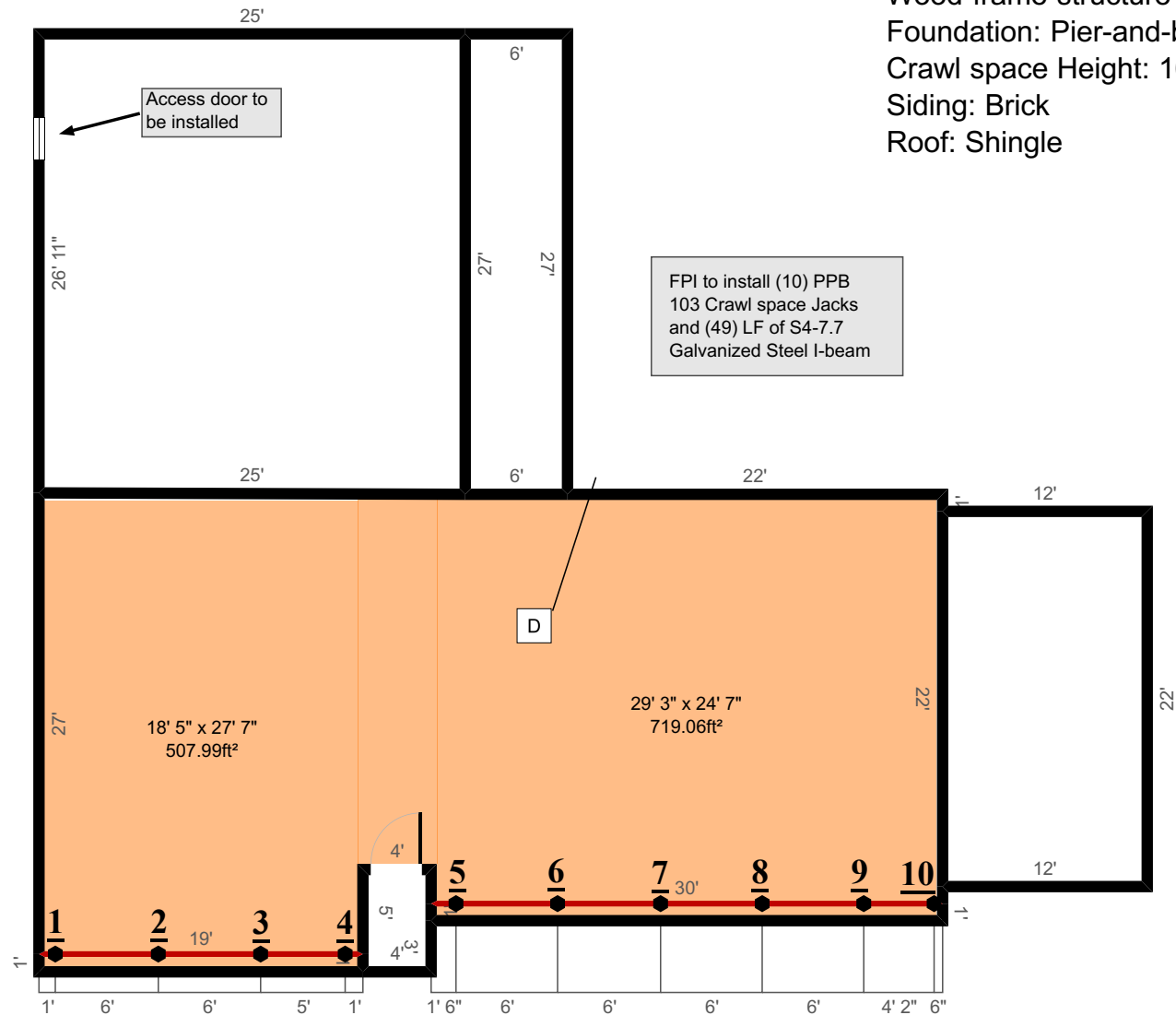
- Foundation 
- Support Post 
- Beam 
- Dehumidifier 
- Door 
- Window 
- Encapsulation 



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Wheeler  
Date:  
2023.07.25  
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7/25/2023  
Kenneth F. Wheeler, P.E.  
PE #60417  
Cool and Cobb Engineering Co.  
203 W. Main St.  
Avon Park, FL 33825

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Wood-frame structure Age: 1956  
Foundation: Pier-and-beam  
Crawl space Height: 16"  
Siding: Brick  
Roof: Shingle

FPI to install (10) PPB  
103 Crawl space Jacks  
and (49) LF of S4-7.7  
Galvanized Steel I-beam

Smith / Foundation Repair (Final)



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

**Project Address**  
David Smith  
1018 SW Walter Ave  
Lake City, FL 32024

**Created By**  
Conner Rawlins  
(904) 515-8680  
7/21/2023

# Cool and Cobb Engineering Company

Date: 7/25/2023

Job: David Smith

Location: 1018 SW Walter Ave., Lake City, FL 32024

## Attachment "A"

Total Load on Pile		(Live Load + Dead Load)
PILE NO.	TOTAL CALCULATE LOAD	
1	1,540 lbs	
2	2,310 lbs	
3	2,120 lbs	
4	1,350 lbs	
5	1,490 lbs	
6	1,980 lbs	
7	1,980 lbs	
8	1,980 lbs	
9	1,680 lbs	
10	860 lbs	



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Maximum Total Load on Pile: 2,310 lbs

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7/25/2023

Kenneth F Wheeler, P.E.

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

7/25/2023

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.



7/25/2023  
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PE #60417

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203 W. Main St.  
Avon Park, FL 33825



## NEW GROUND SUPPORT PAD FOR CRAWL SPACES

### 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	