

Cool and Cobb Engineering Company

Date: 1/8/2025
Job: Benjamin Fair
Location: 1990 SW County Rd 18, Ft White, Fl. 32038

Project: 24-1440



CRAWL SPACE 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:
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.

1/8/2025

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



Digitally signed
by Kenneth F
Wheeler
Date: 2025.01.08
13:23:29 -05'00'

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203 W. Main St.
Avon Park, FL 33825
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Solid Foundations

1910 SW Main Blvd

Lake City, FL 32025

855-227-0300

www.solidfoundations.com



SF Representative: Patrick Wilson

Cell: 229-224-1033

Email: pat@solidfoundations.com

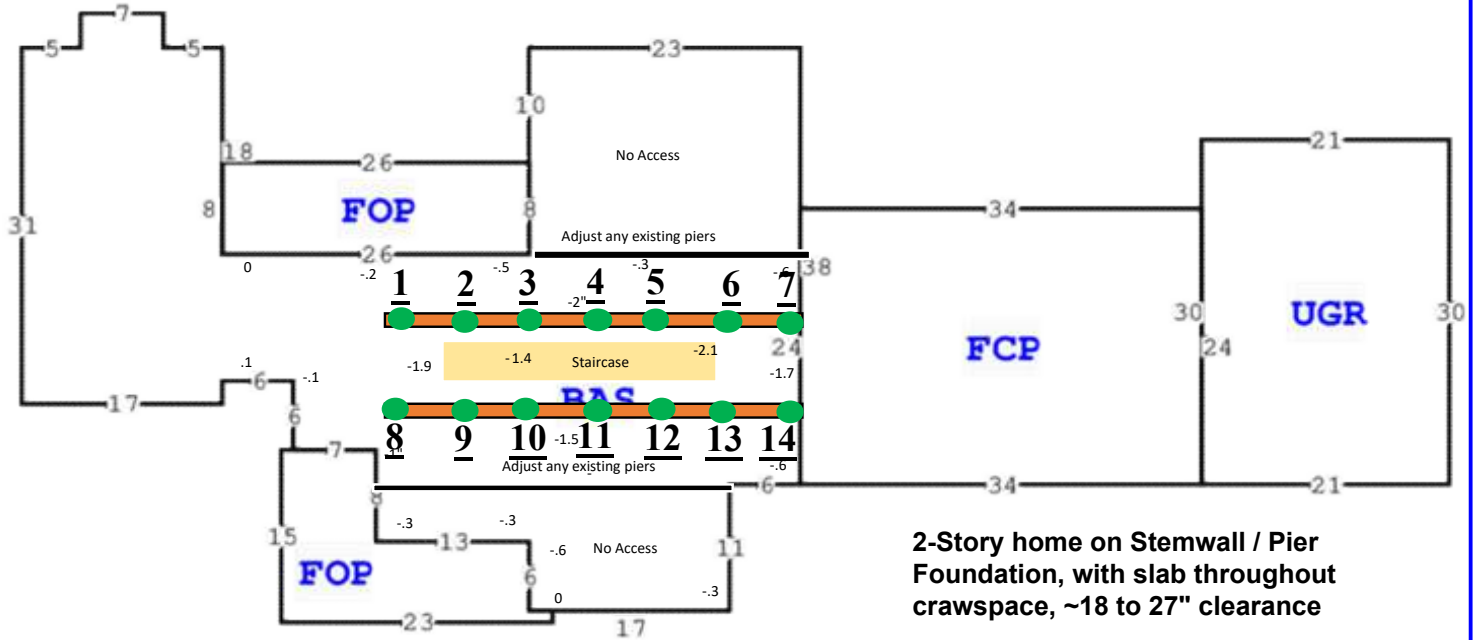
CONTRACT DATE: 10/19/2024

SUBMITTED TO: Benjamin Fair

ADDRESS: 1990 SW County Rd 18

EMAIL: bfair111075@yahoo.com

Phone: 352-363-0168



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1/8/2025

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



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by Kenneth F

Wheeler

Date: 2025.01.08

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Push Pier Model 300: ●

Push Pier Model 250: ●

Helical Pier: ●

Crawl Space Pier: ●

Interior Pier: ●

Low Profile Bracket: ●

Porch Bracket: ●

6x6 Wood Beam: ■

Existing Piers: ■

Polyurethane 430: ■

Existing Beams: ■

Floor Joist: ■

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Project # 24-1440

Attachment "A"

Total Load on Support (Live Load + Dead Load)

SUPPORT NO.	TOTAL CALCULATE LOAD	
1	990	lbs
2	1,980	lbs
3	1,980	lbs
4	1,980	lbs
5	1,980	lbs
6	1,980	lbs
7	990	lbs
8	990	lbs
9	1,980	lbs
10	1,980	lbs
11	1,980	lbs
12	1,980	lbs
13	1,980	lbs
14	990	lbs

Maximum Total Load on Pile: 1,980 lbs



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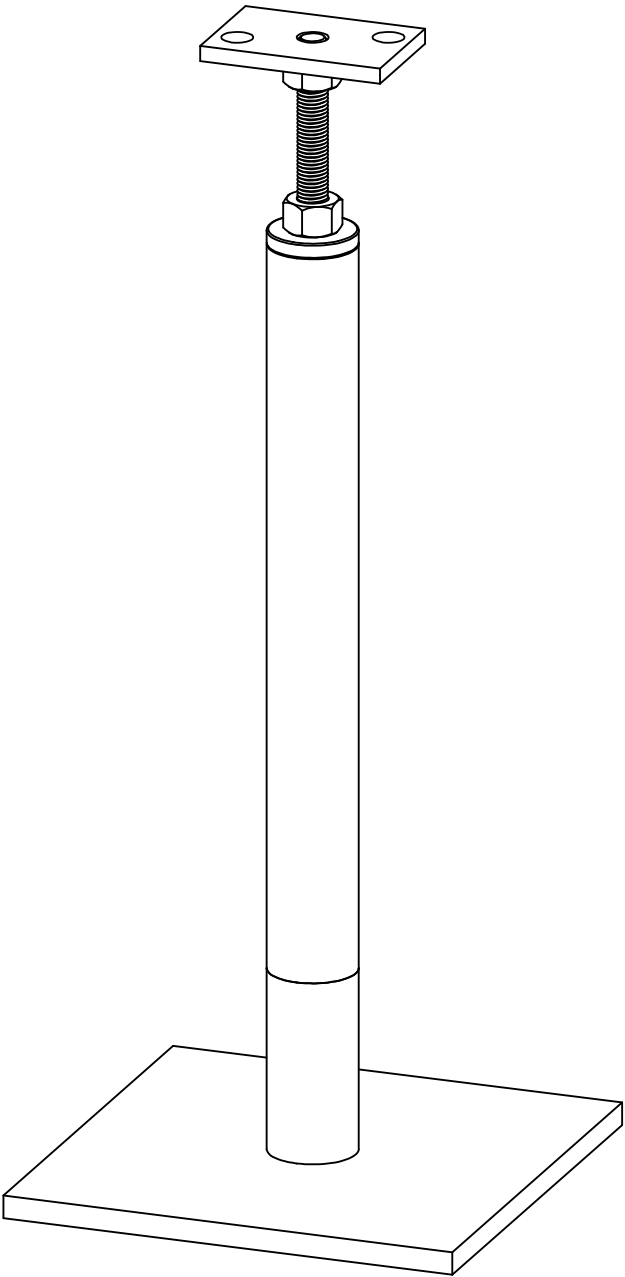
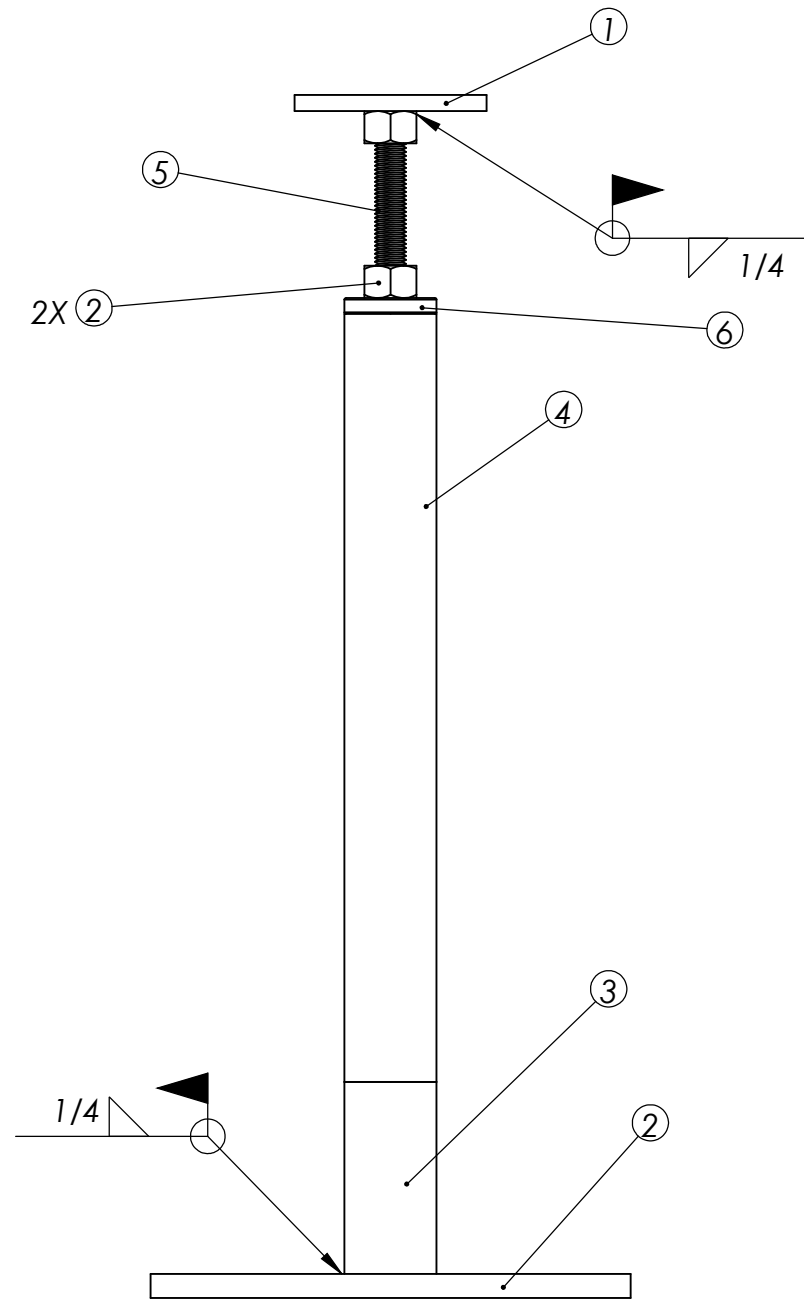
1/8/2025
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Avon Park, FL 33825

NOTES:
MAX TOTAL LOAD ON PILE: 3,100 LBS.

1/8/2025
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PE #60417
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-15-1_Top Plate	4' x 6" x 3/8"Top Plate	1
2	CS-15-2_Bottom Plate	15' x 15" x 3/8" Bottom Plate	1
3	CS-15-3_Tube	Tube 6" _ 2.875" OD, sch 40	1
4	CS-15-4_Extension Tube	Not Included	1
5	CS-15-5_Threaded Rod	12"L- 1" Threaded Rod	1
6	FSS-2875-1032-1000_Pipe Cap	Pipe Cap	1
7	NUT 1-8		2



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± 1/16 ANGULAR: MACH± .5 TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005 INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5 MATERIAL		NAME	DATE	<div></div> <div>TITLE: CRAWL SPACE BRACKET</div>		
	DRAWN	JEO	4/5/21			
	CHECKED			SIZE PART NO. REV B CS-15 - SCALE: 1:12 WEIGHT: SHEET 1 OF 1		
	ENG APPR.					
	MFG APPR.					
	Q.A.			COMMENTS:		