

# Cool and Cobb Engineering Company

Date: 10/17/2025  
Job: Samuel Martinezl  
Location: 1845 SW Haltiwanger Rd., Lake City, FL 32024

Project: 25-1392

## CRAWL SPACE JACK DESIGN ANALYSIS

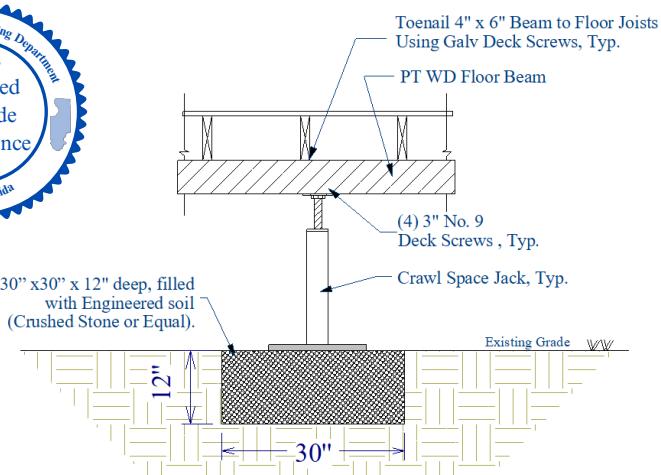
The load requirements for the Crawl Space Jacks designed to assist in supporting the identified areas of the subject residence were determined. The selected Crawl Space Jack locations and the specific Crawl Space Jacks are identified on the Plan attached. The calculated total loads on the Crawl Space 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 8<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.

### 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: Wood Beam – (2) Min. #9 2 ½" galv. deck screws
3. This design is developed per field assessment data by contractor and is based on agreement between contractor and owner. Cool and Cobb Engineering Co. Engineer has not performed an on-site structural assessment of the structure.
4. This design provides stabilization to the area receiving supplemental support only. Structure may require additional stabilization to other affected areas not addressed in the contractor/owner agreement.
5. This design is based on Assumed allowable soil loading of 2,000 psf. 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.
7. Contractor to document and certify any changes (with reason for field changes) on CCEC design plan and redline for "As Built" report.

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.

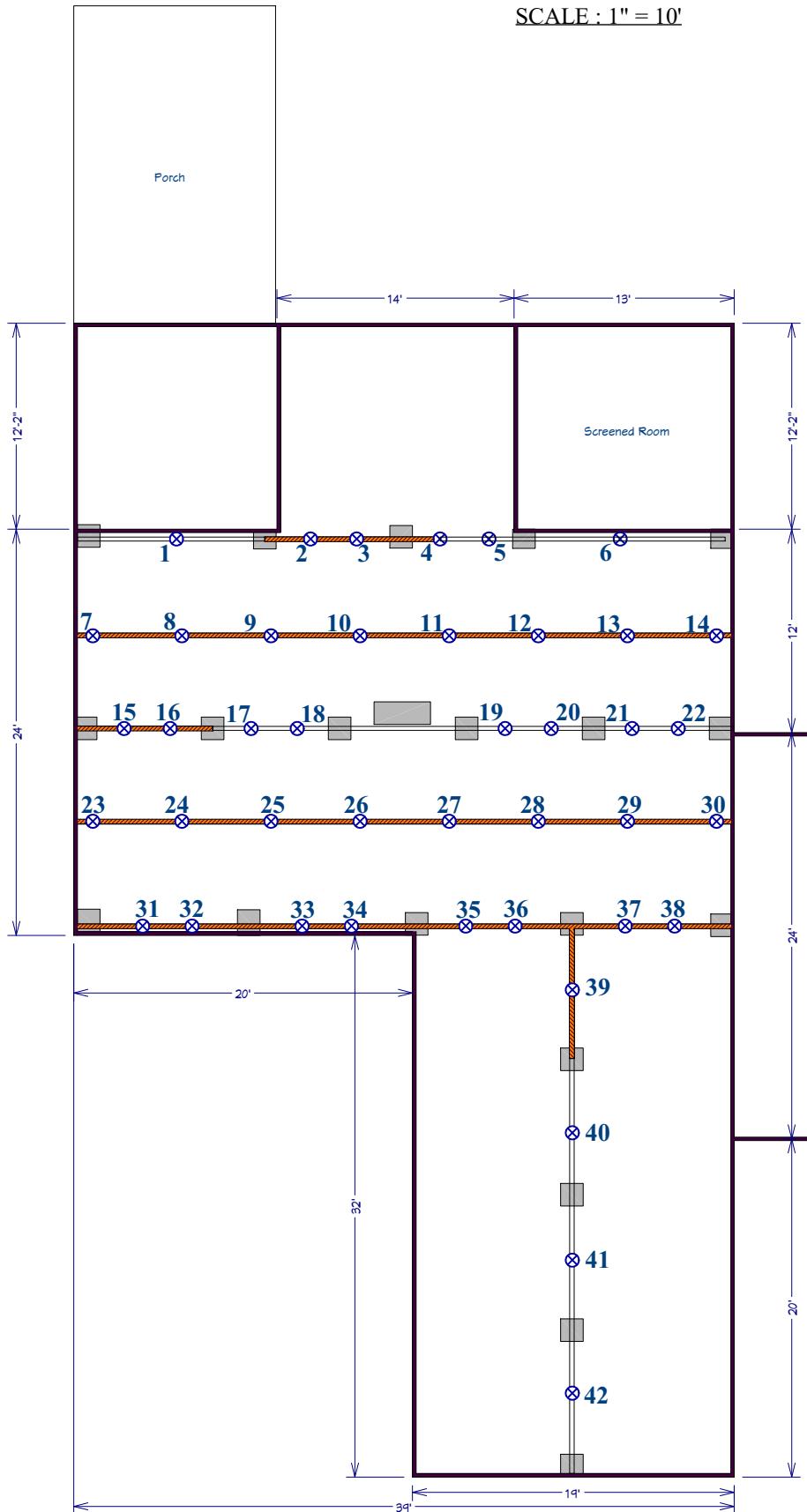
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Contractor: Stable Foundations

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

# Pier Identification & Location Plan

SCALE : 1" = 10'



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## Attachment "A"

Total Load on Support (Live Load + Dead Load)

| PILE NO. | Total Calculated Load | PILE NO. | Total Calculated Load |
|----------|-----------------------|----------|-----------------------|
| 1        | * 8,640 lbs           | 26       | 1,750 lbs             |
| 2        | 3,360 lbs             | 27       | 1,750 lbs             |
| 3        | 3,360 lbs             | 28       | 1,750 lbs             |
| 4        | 3,360 lbs             | 29       | 1,750 lbs             |
| 5        | 3,360 lbs             | 30       | 1,210 lbs             |
| 6        | * 9,360 lbs           | 31       | 3,120 lbs             |
| 7        | 1,210 lbs             | 32       | 3,120 lbs             |
| 8        | 1,750 lbs             | 33       | 3,120 lbs             |
| 9        | 1,750 lbs             | 34       | 3,120 lbs             |
| 10       | 1,750 lbs             | 35       | 3,120 lbs             |
| 11       | 1,750 lbs             | 36       | 3,120 lbs             |
| 12       | 1,750 lbs             | 37       | 3,120 lbs             |
| 13       | 1,750 lbs             | 38       | 3,120 lbs             |
| 14       | 1,210 lbs             | 39       | 2,100 lbs             |
| 15       | 860 lbs               | 40       | 2,100 lbs             |
| 16       | 860 lbs               | 41       | 2,100 lbs             |
| 17       | 860 lbs               | 42       | 2,100 lbs             |
| 18       | 860 lbs               |          |                       |
| 19       | 860 lbs               |          |                       |
| 20       | 860 lbs               |          |                       |
| 21       | 860 lbs               |          |                       |
| 22       | 860 lbs               |          |                       |
| 23       | 1,210 lbs             |          |                       |
| 24       | 1,750 lbs             |          |                       |
| 25       | 1,750 lbs             |          |                       |

\* Needs 30" x 30" x 12" Crushed Stone Baase under 16"x16" Jack Base

Maximum Total Load on Pile: 9,360 lbs

10/17/25

Kenneth F Wheeler, P.E.

PE# 60417

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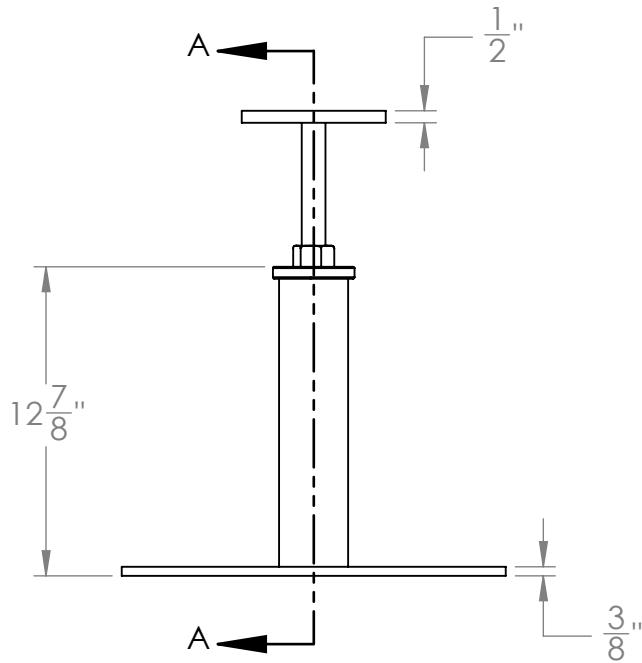
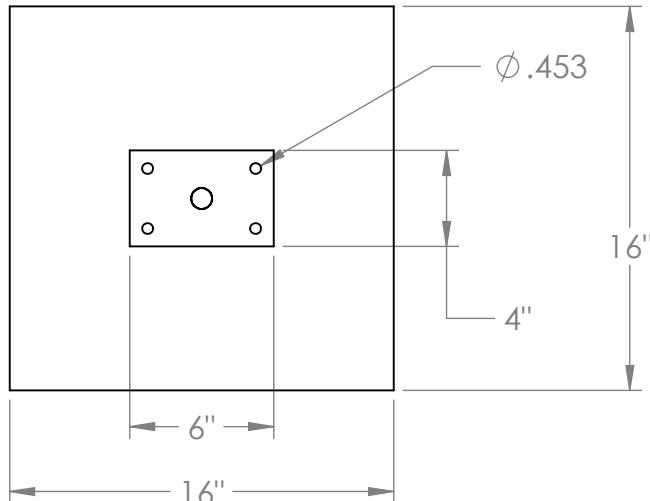
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Cool and Cobb Engineering Co.

203 W. Main St.

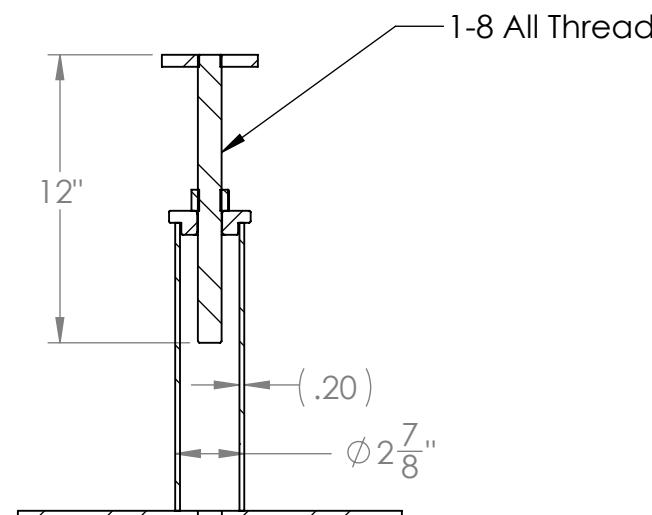
Avon Park, FL 33825

10/17/2025  
 Kenneth F. Wheeler, P.E. #60417  
 Cool and Cobb Engineering Co.  
 203 W. Main St.  
 Avon Park, FL 33825



**Notes:**

1. FINISH: HOT DIPPED  
 GALVANIZED PER ASTM A123-  
 (LATEST REV)



SECTION A-A



TMG Manufacturing  
[www.tmgmfg.com](http://www.tmgmfg.com)  
 5517 W. Sligh Ave. Suite 100  
 Tampa, Florida 33634  
 (813) 464-2299

TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 $X/X \pm 1/16$ ; ANGLES  $\pm 1^\circ$

TITLE:  
**Crawl Space Bracket,  
 Galvanized**

| SIZE       | DWG. NO.          | REV          |
|------------|-------------------|--------------|
| <b>A</b>   | <b>872-2021-G</b> | <b>1</b>     |
| SCALE: 1:8 | WEIGHT: 40.45     | SHEET 1 OF 1 |

