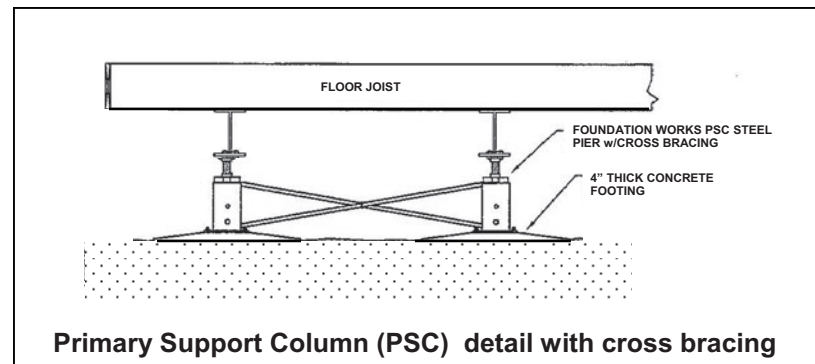
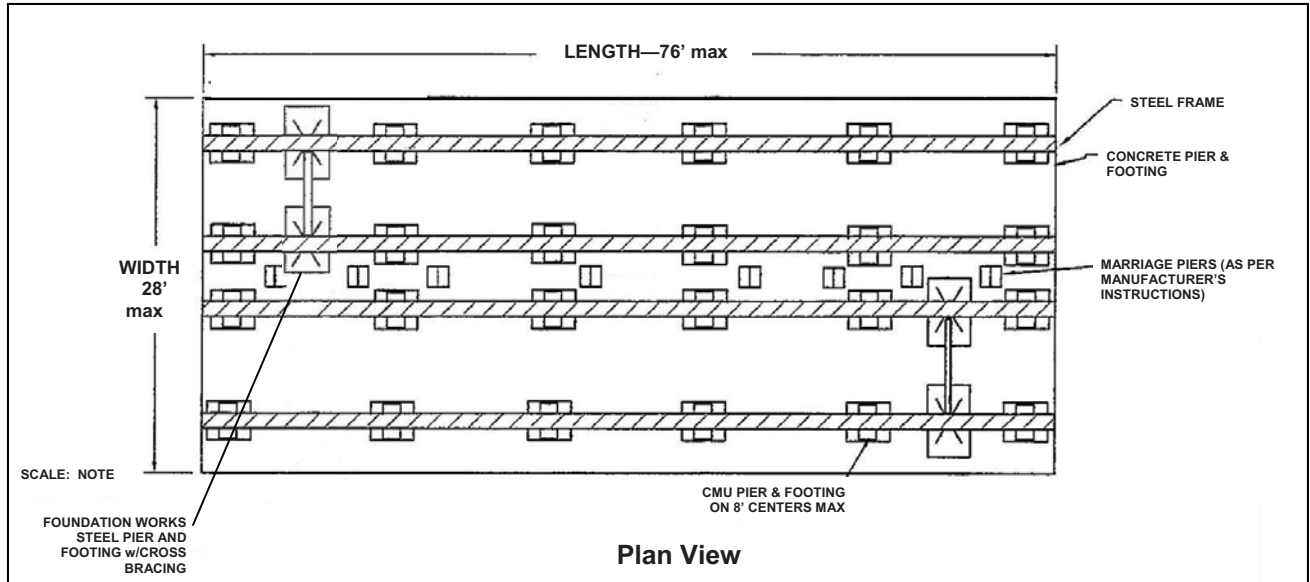


**CONSTRUCTION NOTES**—from *Permanent Foundations Guide for Manufactured Housing HUD Publication dated September 1996*

**100.C Definition of Permanent Foundation.** Permanent foundations must be constructed of durable materials; i.e. concrete, mortared masonry, or treated wood—and be site-built. It shall have attachment points to anchor and stabilize the manufactured home to transfer all loads, herein defined, to the underlying soil or rock. The permanent foundations shall be structurally developed in accordance with this document or be structurally designed by a licensed professional engineer for the following: Vertical stability: 1. Rated anchorage capacity to prevent uplifting and overturning due to wind or seismic forces, whichever controls. Screw-in soil anchors are not considered a permanent anchorage: a. Footing size to prevent overloading the soil-bearing capacity and avoids soil settlement. Footing shall be reinforced concrete to be considered permanent. b. Base of footing below maximum frost-penetrations depth. c. Encloses a basement or crawlspace with a continuous wall (whether bearing or non-bearing) that separates the basement of crawlspace from the backfill and keeps out vermin and water. 2. Lateral stability. Rated anchorage capacity to prevent sliding due to wind or seismic forces, whichever controls, in the transverse and longitudinal directions.

Although not specifically required by the above reference manual for structural purposes, HUD may require the presence of a frost line protected perimeter footing. This engineer does not consider a perimeter footing structurally necessary unless the skirting consists of a poured concrete or masonry block wall.

There shall be blocking under the marriage wall as per manufacturer's recommendations. All construction shall meet applicable local building codes and manufacturer's recommendations in place at the time of construction. All Foundation Works components shall be installed according to manufacturer's instructions.



11/20/2008  
 Name: Daniel Rye  
 Address: 318 Harmon Road, Hopkins, SC 29061

**HUD Compliant Permanent Foundation on Manufactured Housing—Retrofit to Existing Foundation**  
**Engineering Certification**

Additions and modifications have been inspected and do not impact the structural integrity of the property. All additions have proper foundations that meet the requirements of HUD PFGMH Sept 1996.

There is no indication that this manufactured home has been previously installed or occupied at another site or location

This Engineering Certification certifies that the foundation details as found at the above site location meet the requirements of HUD Permanent Foundations Guide for Manufactured Housing, dated September 1996.

**HAYMAN RESIDENTIAL ENGINEERING SERVICES**  
 Engineering Expertise for the Manufactured Housing Industry

Paul W. Hayman, P.E.  
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 (605) 381-2254



# HAYMAN RESIDENTIAL ENGINEERING SERVICES

Engineering Expertise for the Manufactured Housing Industry

11/20/2008

Name: Daniel Rye  
Address: 318 Harmon Road, Hopkins, SC 29061

Subject: HUD Compliant Foundation Engineering Certification

The above property has been inspected and found to comply with the following:

- This Engineering Certification certifies that the foundation details as found at the above site location meet the requirements of HUD 7584, Permanent Foundations Guide for Manufactured Housing, dated September 1996.
- There is no visual indication that this manufactured home has been previously installed or occupied at another site or location.
- Additions and modifications, including porches and decks, have been inspected and do not impact the structural integrity of the property. All additions have proper foundations that meet the requirements of HUD PFGMH Sept 1996.

**100.C Definition of Permanent Foundation.** Permanent foundations must be constructed of durable materials; i.e. concrete, mortared masonry, or treated wood—and be site-built. It shall have attachment points to anchor and stabilize the manufactured home to transfer all loads, herein defined, to the underlying soil or rock. The permanent foundations shall be structurally developed in accordance with this document or be structurally designed by a licensed professional engineer for the following: Vertical stability: 1. Rated anchorage capacity to prevent uplifting and overturning due to wind or seismic forces, whichever controls. Screw in soil anchors are not considered a permanent anchorage: a. Footing size to prevent overloading the soil-bearing capacity and avoids soil settlement. Footing shall be reinforced concrete to be considered permanent. b. Base of footing below maximum frost-penetrations depth. c. Encloses a basement or crawlspace with a continuous wall (whether bearing or non-bearing) that separates the basement of crawlspace from the backfill and keeps out vermin and water. 2. Lateral stability. Rated anchorage capacity to prevent sliding due to wind or seismic forces, whichever controls, in the transverse and longitudinal directions.

**101-2. EXISTING CONSTRUCTION.** The practices recommended in the Handbook are not intended to be applied retroactively to existing sites unless the authority in the jurisdiction considers such application essential for safety and health of occupants. Upgrade of existing anchorages and footings shall meet the intent of the definition of permanent foundation stated herein.

This engineer does not consider a perimeter footing structurally necessary unless the skirting consists of a poured concrete or masonry block wall. There shall be blocking under the marriage wall as per manufacturer's recommendations. All construction shall meet applicable local building codes and manufacturer's recommendations in place at the time of construction. As this certification is for existing foundations, depth of footings and piers have not been physically verified. This certification is valid for this loan only and may not be valid for future loans.

This certification is the property of Hayman Residential Engineering Services, LLC. It is issued to the listed owner for the purpose of a specific loan approval. It may not be transferred to another owner without written permission from Hayman-RES, LLC. This information is an expression of professional opinion by this engineer, which is based on his best knowledge, information provided by others, and belief. It consists of neither a guarantee nor a warranty expressed or implied.

Sincerely,

Paul W. Hayman, P.E.  
Hayman RES, Inc  
(605) 381-2254  
[info@hayman-res.com](mailto:info@hayman-res.com)

