

MARSHALL ENGINEERING SERVICES, PLLC
7575 McArtans Ford
Linden, NC 28356
(910) 850 5874
Corp. License P-0682
Randolph@RandolphMarshall.com

Joy H. Wright
P.O. Box 47
Spring Lake, NC 28390

November 18, 2018

Subject: 382 Orchard Falls Drive

I conducted an inspection to determine the structural integrity of the deck and screened porch on the rear of the home at the above address.

The deck/porch is approximately 24' x 14'. The deck/ porch is supported by brick piers on three sides. A lack of access to the underside of the deck prevented me from determining if it is free standing or attached to the home, nor could I identify the size or depth of the interior footings. Floor joists are 2"x 8" material, 16" on center. The screened-in portion is approximately 14' x 14'. Wood 4"x4" columns, approximately 4'-6" on center, support the roof system, which is gabled and rests on the rear roof of the home. The floor is composite decking material. This deck is in very good condition.

I did not identify any sagging of flooring, or material out of level or not plumb. The stairs and guard rails are firmly attached and are according to NC residential codes.

The only items I could find fault with are the brick pier in the center of the deck appears to be stacked brick with no mortar joints, and there is a piece of rotten skirt board on the left rear of the deck, which covers the rim joist.

There may be other issues that are not visible that could affect the procedure for getting an after-the-fact building permit.

Based on my experience and training this deck is structurally sound.

Sincerely,



E. Randolph Marshall.



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December 10, 2018

Subject: 382 Orchard Falls Drive

Mr. Taylor was able to gain access to the underside of the deck and determined that flashing between the house and deck was not installed. Flashing will be required before an "after-the fact" building permit can be issued.

The following are my recommendations:

1. Flashing is only required on the portion of the deck not under roof.
2. Remove deck boards next to the house to gain access to the ledger board and cement board siding.
3. Install "Z" shaped flashing material. One leg should go behind the siding, come over the top of the ledger board and down the side. Do NOT use aluminum. It will react with the PT lumber and deteriorate.
4. Seal around all installed fasteners.
5. Take photographs to show building inspectors.
6. Reinstall deck boards.

This process should allow the owner to get a permit, but there will be a higher fee for after-the fact permits.

Please call my office if you need additional engineering support.

Sincerely,



E. Randolph Marshall



10 Dec. 2018

Robert L. Brake

347 Micro Tower Rd.
Lillington, NC 27546
Lic. #2012100063

910-303-3712

Work Order Inspection Report

Contractor: Stewart Taylor Construction

Property Address: 382 Orchard Falls, Spring Lake, NC

Work Performed:

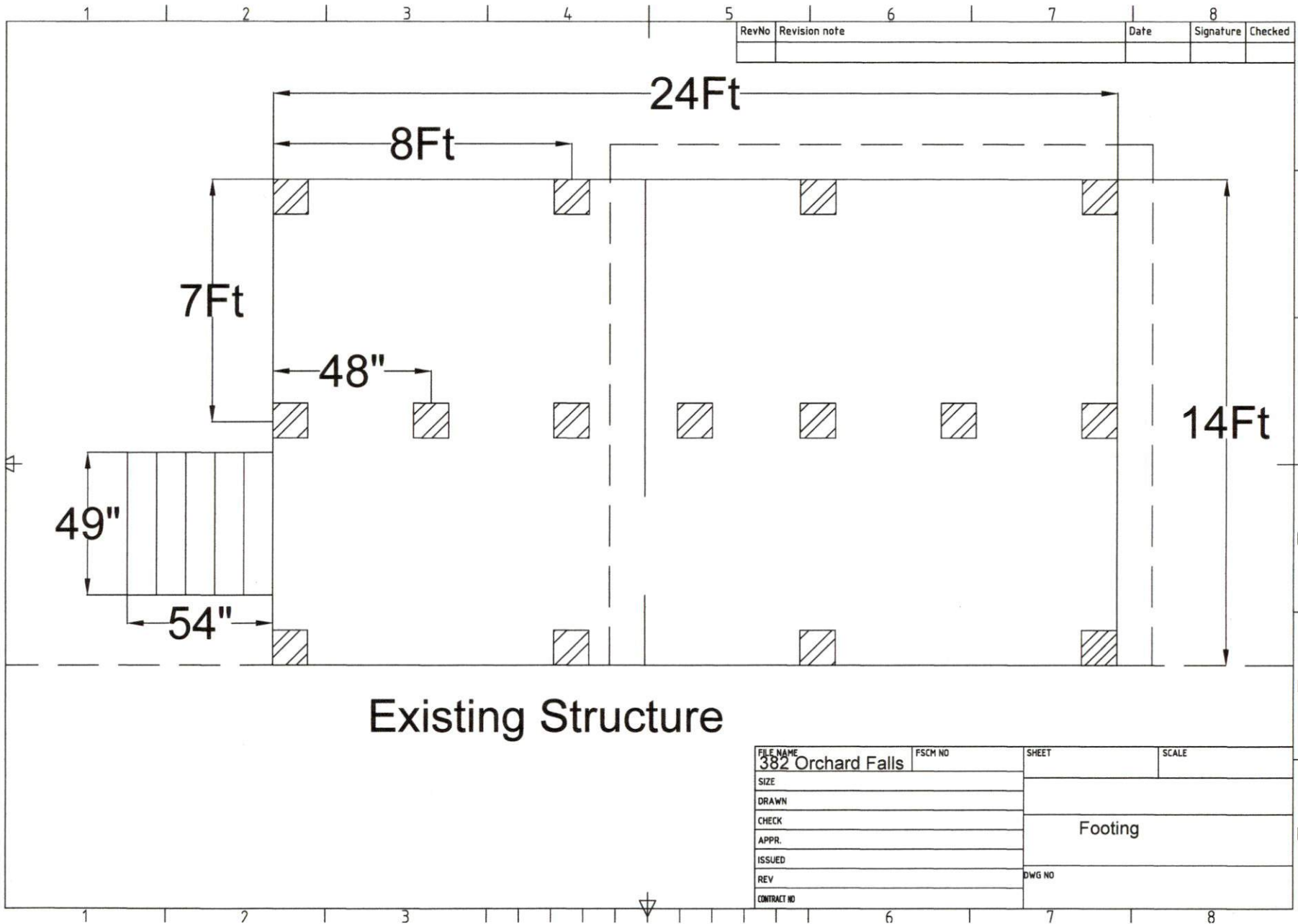
Installed drip edge; installed flashing behind fascia on back sides; installed ridge cap; installed step and counter flashing on front brick walls; roof deck is level and solid; addition is fastened to house in accordance with acceptable trade practices.

Workmanship Guarantee: 1 yr. under normal weather conditions.

Date: 12/10/18



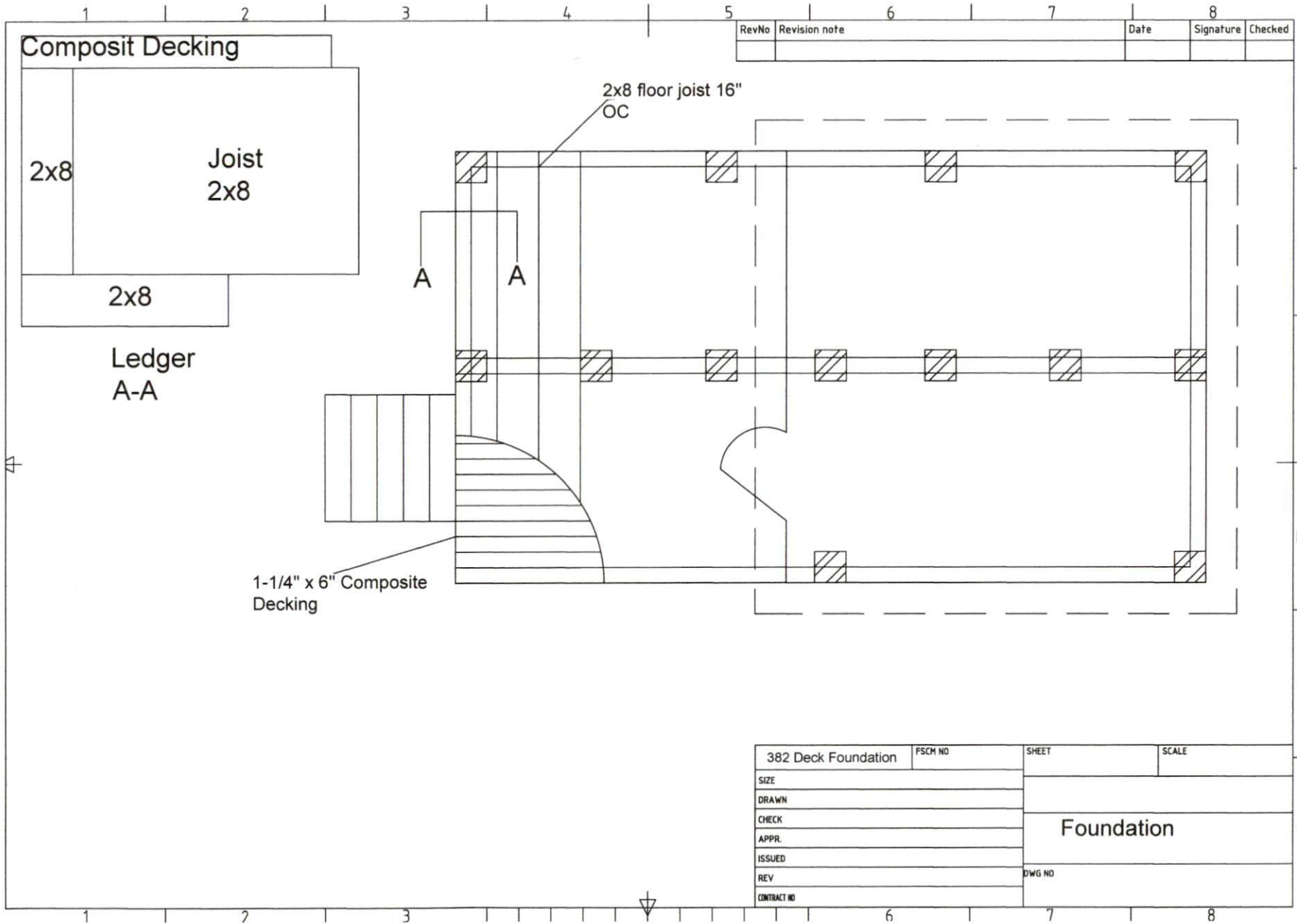




RevNo	Revision note	Date	Signature	Checked

Existing Structure

FILE NAME 382 Orchard Falls	FSCM NO	SHEET	SCALE
SIZE	Footing		
DRAWN			
CHECK			
APPR.			
ISSUED			
REV	DWG NO		
CONTRACT NO			



Harnett GIS

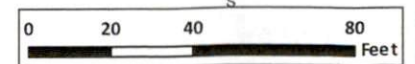
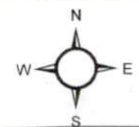
NOT FOR LEGAL USE .



GIS/E-911 Addressing

November 16, 2018

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|-------------------------------|-------------------|--------------|---------|
| Recycle Center | City Limits | NC | Parcels |
| Landfills | Address Numbers | US | |
| Surrounding County Boundaries | Airport | Roads | |
| Federal Property | MajorRoads | Mile_Markers | |
| | Interstate | Railroad | |



1 inch = 47 feet













