

CAROL CHADWICK, P.E.

*Civil Engineer*

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

www.carolchadwickpe.com

February 1, 2022

Ms. Ingrid Geiger

ingridqualibuilt@gmail.com

386.719.1409


**re: ROOF FRAMING – SMITH/MENDEZ CARPORT**

In lieu of engineered trusses, the roof can be constructed using the following framing members for a live load of 20 psf and a dead load of 10 psf:

- Rafters: 2x6 SP#1 @ 24" o.c.
- Ridge beam: 2x6 SP#1
- Purlins: 2x6 SP#1 @ double 14" LVL
- Collar tie: 2x6 SP#1 @ 1/3 H from top
- Fasteners per Table R802.5.1, 2020 FBC, 7<sup>th</sup> edition Simpson H2.5A clip @ each rafter both ends
- Double 14" LVL spanning carport at ceiling heights bearing on 2x6 columns

In my professional opinion, this structure meets the structural load and uplift requirement for a residential dwelling per the Florida Building Code 2020, 7<sup>th</sup> Edition, Residential. Should you have any questions, please don't hesitate to contact me.

Respectfully,

 Digitally signed by  
Carol Chadwick  
DN: c=US,  
o=Unaffiliated,  
ou=A01410D00000  
1711349D4A700016  
21F, cn=Carol  
Chadwick  
Date: 2022.02.01  
14:32:04 -05'00'

Carol Chadwick, P.E.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.