

# HD ENGINEERING & DESIGN, INC.

SOLUTIONS FOR ALL OF YOUR ENGINEERING & DESIGN NEEDS

May 10, 2021

Wood Brothers Construction  
P.O. Box 553  
Lee's Summit, MO 64063

## **Re: 2312 SW Chase Cir**

Our firm has been asked to address framing inspection items for the home being built at the location listed above. At the time of inspection the home was in a rough framed state.

### **Suspended Front Stoop**

Suspended front stoop measures 4' x 9' and is poured in compliance with the specifications on the plan. The stoop bears on foundation.  
Our firm recommends approval of the stoop to transfer load as intended.

### **Garage Portal Framing**

The inspector has questioned the sill bolt and bottom plates for the garage portal. The triple bottom plate was not installed per print. To better allow the portal to transfer load as intended our firm recommends placing 7/16 sheathing on the interior face of the garage portal. The additional sheathing will be fastened with 8d nails 3" on center. With the addition of the interior layer of sheathing our firm recommends approval of the portal as framed.

### **Double 2x12 Above Bathroom Second Level**

The framer has omitted the double 2x12 over the upstairs bathrooms that was intended for roof support. The ridge load has been legged to the wall directly over the double LVL below. The current framing configuration allows transfer of roof load as intended.  
Our firm recommends approval of this item as framed.

### **Upset Steel Beam Over Kitchen**

The framer installed the joist over the kitchen with a let-in cut at the steel beam. To allow the beam to properly transfer the loads imposed our firm has recommended the installation of thru-bolt blocking in between every other joist. The blocking will be attached with the use of two 1/2" thru-bolts. The adjacent joist to the blocking will be side nailed to the blocking to allow transfer of the floor loads to the web of the beam.  
Our firm recommends approval of the joist to upset beam framing with the additional blocking.

*Continued.....*



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## **Blocking for Ceiling Joist at Covered Patio**

The framers have installed pressure blocks at the ceiling joist to wall connection for the covered patio. The 129# end reaction of the ceiling joist can be transferred to the blocking and wall with a minimum of two 12d nails.

Our firm recommends approval of this item as framed.

## **Upset LVL at Covered Porch**


The framers omitted the LVL shown on the plans, intended for support of the roof triple point. Given the in field configuration and clearance a ridge leg was run to the exterior bearing wall of the home. The ridge leg is at an approved angle and transfers roof load the bearing members below.

Our firm recommends approval of this item as framed.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either express or implied, are intended or made.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us.

Very truly yours,  
HD ENGINEERING & DESIGN, INC.

  
John Hulse, Principal

Chris Saathoff, P.E., LEED-AP

