



## CIVIL ENGINEERING CONSULTANTS

1805 WATERS ROAD

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March 1, 2022

Steve Froehlich  
146 NW Ambersham Dr.  
Lee's Summit, MO

RE: R.E.O. Project 21-002-02, 146 NW Ambersham Dr.,  
Permit: 2021-2347  
Field modifications to header and lateral bracing

Dear Mr. Froehlich,

We are providing herewith statement regarding the field modifications to the residential plan SF-7020 by MD2 Designs and certified by our Firm. The modifications consist of trimming down the LVL header over the basement floor level 8/0x12/0 door and omission of the continuously sheathed portal frame (CS-PF) assembly at the rear breakfast wall and rear great room walls.


Modification is required to provide additional support at the trimmed header location. The remaining height between the top of the rough opening and the bottom of the floor joists is approximately 9.5 inches. Two modify the header, two additional 1.75"x9.25" LVLs shall be wedged tight to the bottom of the joists, nail laminated to the existing header construction, and supported at the ends by 2x4 stud-framing at the inside face of the existing stud framed wall. This modification is adequate to support the applied floor loads above the 12/0x8/0 door.

In lieu of the specified continuously sheathed portal frame at the rear Breakfast and Great Room walls, builder may provide continuously sheathed wood structural panel at those locations over the 24 inches of framing width. This method requires 8d fasteners at six inches on center at the perimeter of the panels and 12 inches at the interior of the panels. Wood structural panel sheathing and nailing may be provided at the interior face of the framing to reduce perforations in exterior sheathing. This substitution provides adequate contributing length for the net wall bracing at the rear braced wall line.

With the above modifications, the trimmed header and wall bracing modification are adequate to meet the requirements of the 2018 IRC. No other modifications are required. If there are any questions regarding these modifications, please contact our Offices.

Very Truly Yours,

R.E.O. ENGINEERING, P.C.

By: , President  
Aaron D. Obermiller, P.E.

