



May 25, 2022

Walker Custom Homes, LLC
Attn: Jason Walker & Ryan Hamilton

Re: 2035 Wheatfield Court, Lee's Summit, MO (Lot 40, Homestead at Hook Farms 1st Plat)

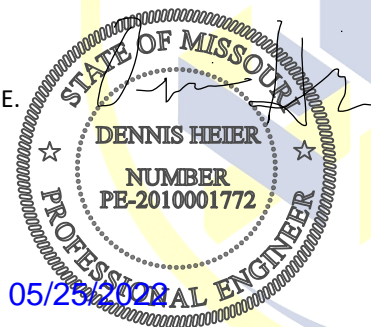
Vista Structural Engineering, LLC, was asked to address the following city inspection comment for the house being built at 2035 Wheatfield Court, in Lee's Summit, MO:

- **Address front door wall framing; plans call for three king studs.** *Per the attached calculations, our firm recommends installing strapping between the studs above and below the end of the header. The strap should be minimum Simpson CS16. Pictures of the installation are attached.*

Our firm appreciates the opportunity to serve you. If you have any questions or if you need anything further, please feel free to contact us.

Sincerely,
Vista Structural Engineering, LLC

Dennis Heier, P.E.



VISTA STRUCTURAL ENGINEERING, LLC

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PORTLAND, OREGON 97229

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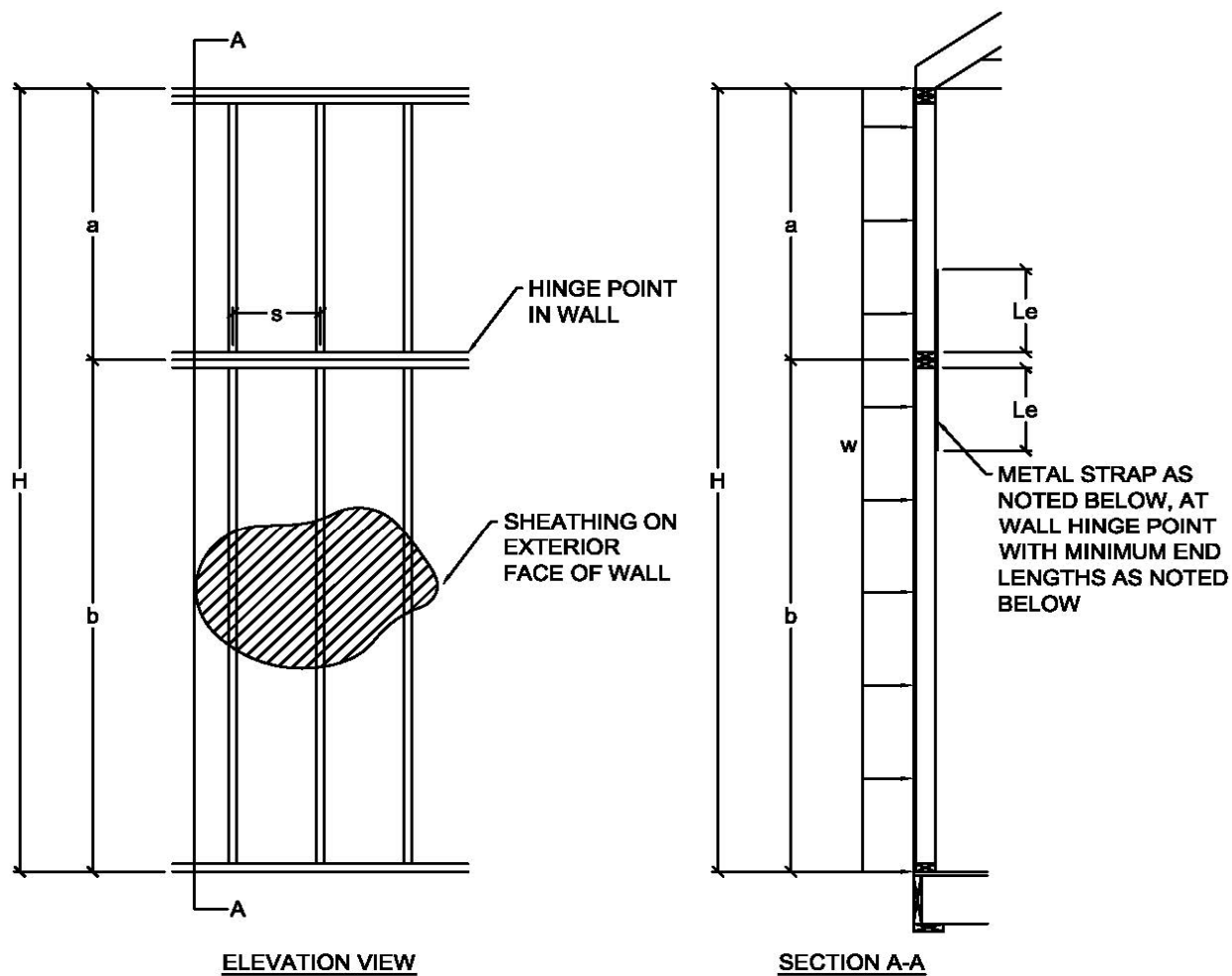
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Vista Structural Engineering, LLC
14718 NW Delia Street
Portland, Oregon 97229
(971) 233-6099

Client: Walker Custom Homes
Job Description: 2035 Wheatfield Court
Entry Wall
Jurisdiction: Lee's Summit, MO



STUD WALL WITH HINGE AT MID-HEIGHT

Wall height, H	18 ft	=	216 inches
a	9 ft	=	108 inches
b	9 ft	=	108 inches
Wind pressure	9.6 psf	(per ASCE7-10)	
Stud spacing, s	16 inches o.c.		
Maximum Moment, M	6221 in-lbs		
Moment at Hinge, M_h	6220.8 in-lbs		
Depth of stud	5.5 inches		
Tension force of strap	1131 pounds		

Use Simpson steel strap or equivalent, model number:	CS18
With the following end lengths above and below hinge, Le :	12 inches
With the following quantity and size of nails in each end length:	(9) 8d