### 22-197951 REV 01 RS



Contact: Greg Carlson
Company: Javiena Group
Phone: (503) 781-8347

Fax:

Prepared by: BTD/MT BO Letter Number: 3010523

## **Engineering Addendum**

Project Name: Javiena Group Fremont St Remodel (Portland) 2810523

Project Location: 5935 NE Fremont St

Portland, Oregon 97213

Project Number: 2810523 Date: 5/10/2023

The following is in response to an email request from Greg Carlson on 5/8/2023:

It was requested to verify the strength of a glulam beam that will replace the previous bearing wall.

• The new glulam beam will have enough sufficient strength to replace the bearing wall. See attached drawing for support clarification.

It was also requested to ensure that the drilled plumbing hole in the joist will not affect the joist.

- The joist with the drilled plumbing needs to be addressed. Attach a 30" CS14 strap to the bottom of the damaged joist, centered below the hole.
  - Alternative option: Attach a 30" long 1/4" thick steel plate to the bottom of the joist. Plate to have same width and nailing as the CS14 strap.

See the following schedules and calculations for updated plans:

BEAM SCHEDULE		
MARK	TYPE	
RB 01	3-1/2 X 12 GLB	
1. DIMENSI	ONAL LUMBER DF #2 U.N.O.	
2. LAMINAT	ED VENEER LUMBER (LVL) 2.0E	
3. GLUED-LAMINATED TIMBER (GLB) 24F-1.8E		
4. STEEL W-SHAPES A992-50		
5. SUFFIXES (A, B, ETC.) DENOTE ALTERNATIVES FOR THE SPECIFIED BEAM		
6. ALL HEADERS IN BEARING WALLS TO HAVE MIN. (1) TRIMMER & (1) KING STUD U.N.O. ALL OTHER BEAMS AND GIRDER TRUSSES TO HAVE MIN. (2) 2X SUPPORTS U.N.O.		

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**Summary** 

RB 01 3-1/2 X 12 GLB [24F-1.8E]

Mark RB 01

Section 3-1/2 X 12 GLB [24F-1.8E]

Span 11.33 ft

Section adequate by 23 % - Load Combo. No.4 DL + 0.75\*(FLL + RLL) - Flexure Result

#### **Distributed Loads**

			Load Start		Load End	
Class	LL (psf)	DL (psf)	Trib (ft)	x1 (ft)	Trib (ft)	x2 (ft)
Roof	25	17	16.50	0.00	16.50	7.00
Roof	25	17	10.00	7.00	10.00	11.33
Floor	40	12	6.92	0.00	6.92	7.00

#### **Point Loads**

Ref.	a (ft)	RLL (lb)	FLL (lb)	DL (lb)	Total (lb)
JT 04-R	7	167	200	773	1,140

Section Properties

Self Weight	BSW =	10 plf	Width	b =	3.5 in.
			Depth	d =	12 in.
Allowable Stress			Area	A =	42 in.2
Shear Stress	Fv =	265 psi	Shear Area	As =	28 in.2
Bending Stress	Fb =	2400 psi	Moment of Inertia	l =	504 in.4
Ream Adjustment Facto	ore		Section Modulus	S -	84 in 3

**Beam Adjustment Factors** 

**Load Duration** Cd = 1.15Form CF = 1.00

Repetitive Cr / Cv = 1.00

**Load Reduction Factors** 

Live Load LLRF = 1.00

vviatn	D =	3.5 In.
Depth	d =	12 in.
Area	A =	42 in.2
Shear Area	As =	28 in.2
Moment of Inertia	l =	504 in.4
Section Modulus	S =	84 in.3

**Beam Material Properties** 

Modulus of Elasticity E = 1800000 psi

Flexure Stiffness EI = 907000000 lb-in.2

> Reg'd bearing length = 2.34"

#### **Deflection Criteria**

Span	DLD (in.)	LLD (in.)	Result	TLD (in.)	Result
Center	0.19	0.18	51 %	0.37	34 %

**Strength Criteria** 

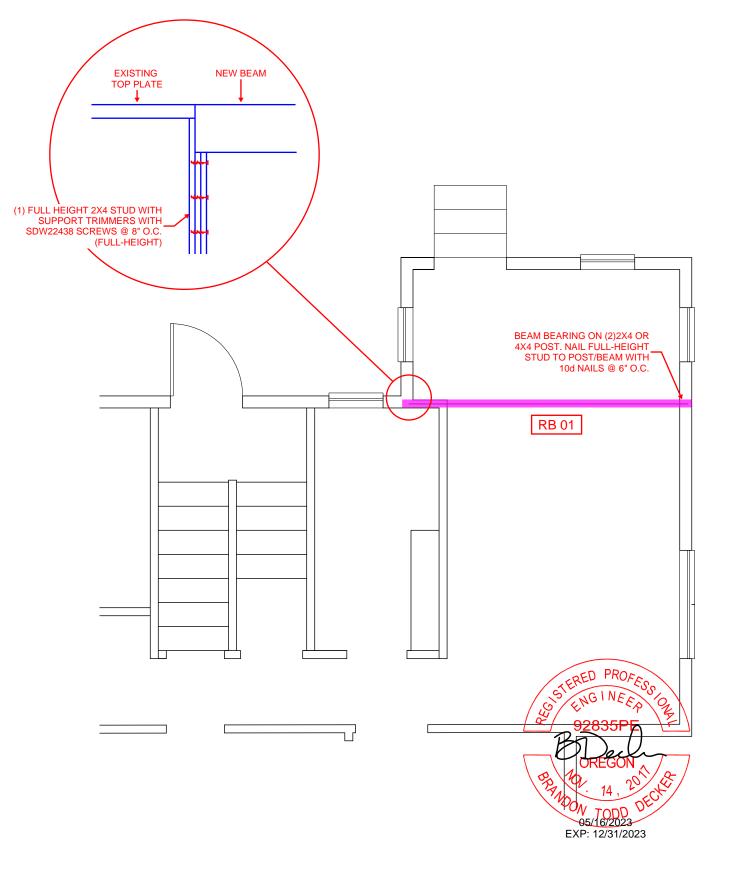
Condition	Maximum	Allowable	Result	<u>Р</u>
Shear (lb)	4,368	8,533	49 %	Left: (2
Moment (lb-ft)	14.911	19.320	23 % D	PROPRIGHT: (2

1.8" **Support Reactions** 

	Left	Right
RLL (lb)	2,266	1,871
FLL (lb)	1,415	722
DL (lb)	2,554	2,158
Total (lb)	5,315	4,103
Post		Capacity

2) 2 X 4 (1) K 6314 lb (2) 2 X 4 4980 lb

EXP: 12/31/2023



# **2nd FLOOR FRAMING PLAN**

SCALE: 1/4"=1'-0"

#### **Hussam Fallatah**

From: Leo Botello <leo@fasterpermits.com>
Sent: Wednesday, May 10, 2023 2:29 PM

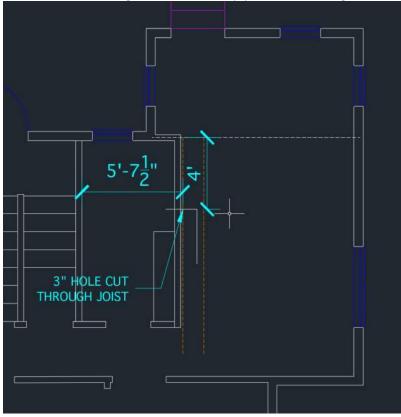
**To:** Greg Carlson

**Cc:** Brandon Decker; Zac Horton

**Subject:** Re: NEW WORK - 5935 NE Fremont

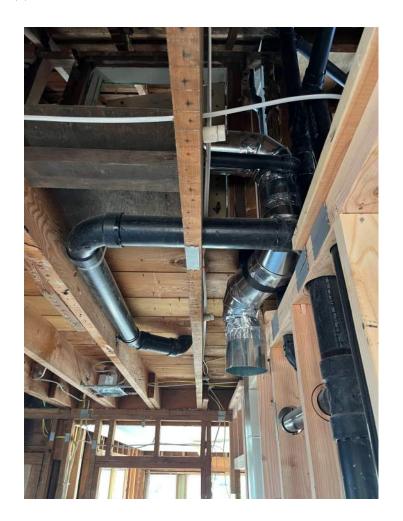
#### Brandon, Greg

I think this is the rough location of the pipe from the images I have that what I am seeing



On Wed, May 10, 2023 at 9:47 AM Greg Carlson <<u>gregcarlson1984@gmail.com</u>> wrote: 67.5" to a LB wall

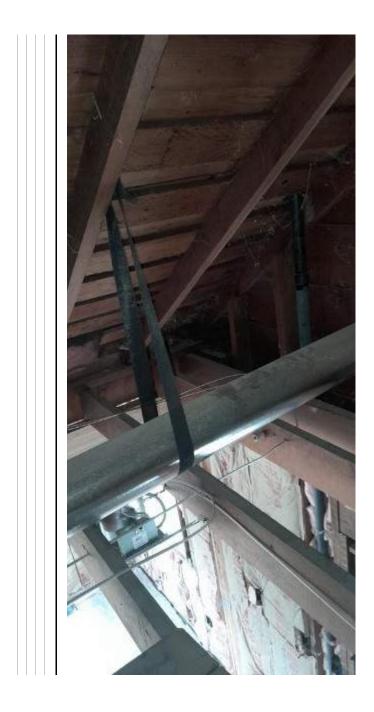
On Tue, May 9, 2023 at 3:15 PM Greg Carlson <a href="mailto:sqregcarlson1984@gmail.com">gregcarlson1984@gmail.com</a> wrote:
If the bathroom wall (less than 2' away), then it's the wall in the 1st pic below which is less than 10' I'm out of town otherwise I could go there to





On Tue, May 9, 2023 at 2:05 PM Greg Carlson < <a href="mailto:sreggenslished-wind-sep">greggenslished-wide sep on Tue, May 9, 2023 at 2:05 PM Greg Carlson &lt; <a href="mailto:specials.com">greggenslished-wind-wind-wind-wind-wind-wind-wind-win</a></a>
On Tue, May 9, 2023 at 2:00 PM Brandon Decker < brandon@acuteeng.com > wrote:
Greg,
Still waiting for the location of the hole in the joist.
Brandon Decker, PE   Partner   Acute Engineering, Inc.
Oregon Office: 3800 SW Cedar Hills Blvd Ste 145, Beaverton, OR 97005
Corporate Office: 744 S 400 E, Orem, UT 84097
Work: 801-229-9020   Fax: 801-224-0050
This message is intended solely for the recipient and should not be opened, read, or utilized by any other party. This message shall not be construed as official project information or as a direction except as expressly provided in the contract documents.
From: Greg Carlson < gregcarlson1984@gmail.com > Sent: Tuesday, May 9, 2023 11:07 AM
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com >
Sent: Tuesday, May 9, 2023 11:07 AM
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com >  Cc: Leo Botello < leo@fasterpermits.com >; Zac Horton < zac@fasterpermits.com >
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com >  Cc: Leo Botello < leo@fasterpermits.com >; Zac Horton < zac@fasterpermits.com >
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com >  Cc: Leo Botello < leo@fasterpermits.com >; Zac Horton < zac@fasterpermits.com >  Subject: Re: NEW WORK - 5935 NE Fremont  Hi Brandon,
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < <a href="mailto:brandon@acuteeng.com">brandon@acuteeng.com</a> Cc: Leo Botello < <a href="mailto:leo@fasterpermits.com">leo@fasterpermits.com</a> Subject: Re: NEW WORK - <a href="mailto:5935">5935 NE Fremont</a>
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com> Cc: Leo Botello < leo@fasterpermits.com>; Zac Horton < zac@fasterpermits.com> Subject: Re: NEW WORK - 5935 NE Fremont  Hi Brandon,  Do you have everything you need?
Sent: Tuesday, May 9, 2023 11:07 AM  To: Brandon Decker < brandon@acuteeng.com >  Cc: Leo Botello < leo@fasterpermits.com >; Zac Horton < zac@fasterpermits.com >  Subject: Re: NEW WORK - 5935 NE Fremont  Hi Brandon,

Let's go ahead with the standard turnaround time.
You can bill me direct:
Javiena Group
2805 South Shore Blvd4.
Lake Oswego OR 97034
503-781-8347
Questions:
1. Plumbing hole - yes upper floor framing above kitchen
2. Plumbing hole location to load bearing wall - Leo to provide
3. Roof framing pic attached
4. Right side of house - yes popped out and sitting over a crawl space - pic attached
Thanks.
Greg





On Mon, May 8, 2023 at 1:17 PM Brandon Decker < <a href="mailto:brandon@acuteeng.com">brandon@acuteeng.com</a>> wrote:

Leo and Greg,

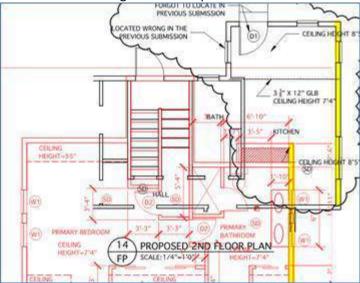
I've reviewed the drawings and our fee for structural engineering services would be as follows:

- Standard turnaround time: \$400 with approximately 6 business day turnaround.
- Expedited turnaround time: \$1,925 if we get approval this afternoon to have it back to you Wednesday morning.

 (NOTE: These do not include fees for a site visit. If a site visit is required, that will be a separate fee of \$150/hr including travel time from our Beaverton office. I could be available anytime Tuesday after 10am for a site visit.)

If you would like me to proceed with engineering, please provide the following:

- Email confirming that we may proceed and if you want the standard turnaround time or expedited turnaround time.
- Billing information (Name, Email, Phone Number, and Billing Address)
- Clarification on the plumbing hole situation.
  - o Where is this plumbing hole on the plans? Is this the upper floor framing?
  - Where is the plumbing hole in relation to its bearing? (e.g. Is it 3'-6" away from a bearing wall?)
  - o Can you provide pictures of the roof framing up above? I'm trying to determine if this is a floor functioning independently as a floor or if it's part of a roof system.
- Clarification on the right side of the house When I stack the upper floor (red) on top of the main floor (black), the right sides don't appear to line up. Could you send me some photos from the exterior of the home showing the right side so I can better understand what is happening with these highlighted yellow walls? Since the basement appears to line up with the upper floor, I'm assuming that this popped out kitchen area is sitting on a crawl space extension of the house?



#### Additional Notes:

- The above quote is subject to change if the design is modified during engineering. Design changes after initial engineering will be billed based on our time to update the engineering and drawings.
- Engineering Addendums for changes in the field during construction or for fixes on construction errors will be billed separately based on our time.

Let me know if you have any questions!

Brandon Decker, PE | Partner | Acute Engineering, Inc.

Oregon Office: 3800 SW Cedar Hills Blvd Ste 145, Beaverton, OR 97005

Corporate Office: 744 S 400 E, Orem, UT 84097

Work: 801-229-9020 | Fax: 801-224-0050

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From: Zac Horton < <u>zac@fasterpermits.com</u>> Sent: Thursday, May 4, 2023 5:31 PM

To: Brandon Decker <bra> compacted acute on the compact of the com

Cc: Leo Botello < leo@fasterpermits.com > Subject: NEW WORK - 5935 NE Fremont

Hey Brandon,

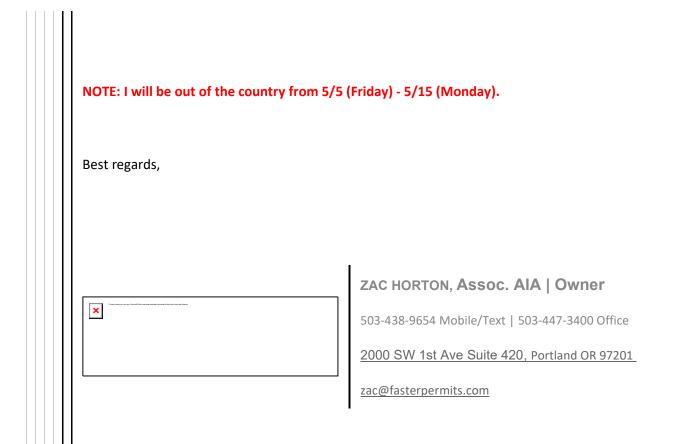
Hopefully a fairly easy one for you. During the course of construction, the contractor (cc'd) removed an extra wall on this project and put in a beam The zip file attached has pictures and the plans attached cloud the occurrence in the plans.

We need to run a revision and need your help with engineering! I imagine a memo with a detail or two would suffice for city review.

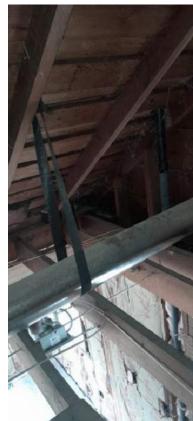
Second item: There is a joist that Greg needed to run Plumbing through. We likely need a memo confirming that the system isn't compromised by that...

It'll probably be worth it to take a look at things on-site. Feel free to schedule that here with Greg and Leo.

Let us know what your cost and timeline will be to assist. Thanks!

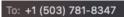














Hi Zac. Need to reinforce this joist per the inspector & wants a EOR letter with calcs. Joist is

2 x 7. Plumbing is 3". Can you have your engineer do this please? Let me know if he needs more info. It's always something.... Thx



