



Supplemental Structural Calculations For:

Jaffe Residence

Remodel and Addition

8455 SE 83rd St.

Mercer Island, WA 98040



Prepared for: Suyama Peterson Deguchi

Job #: 00043-2022-03

Date: May 31, 2023

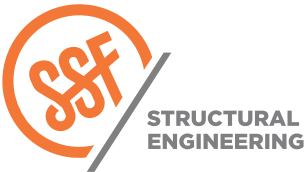


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○ 206.443.6212
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Jaffe Residence
 PROJECT
 Supplemental Gravity Key Plan - Roof

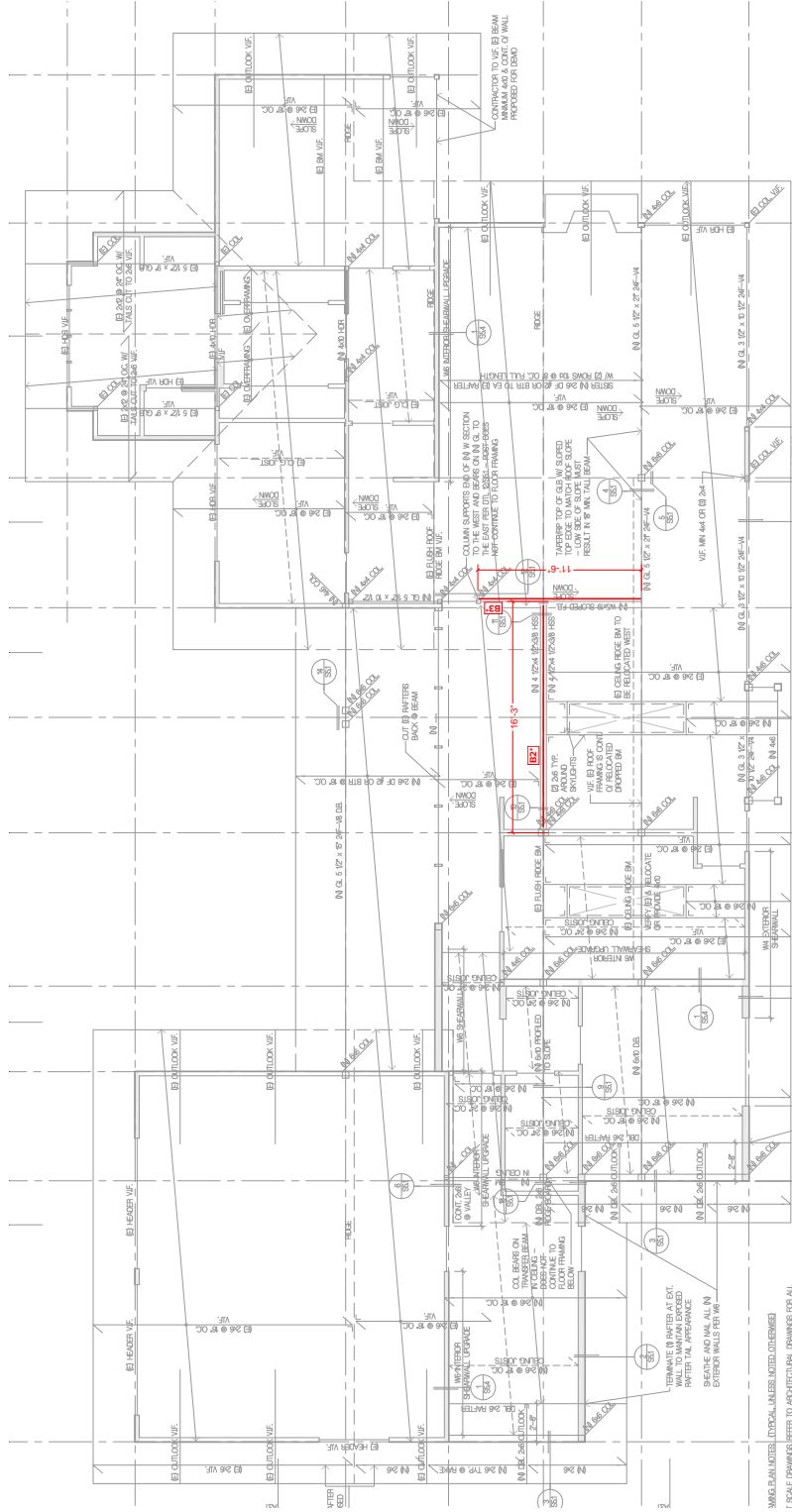
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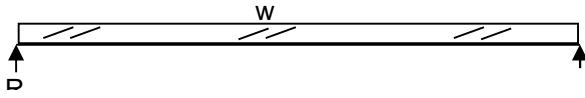
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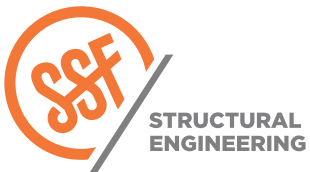
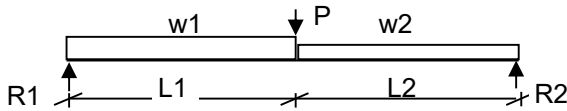
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Ridge		B2*	PSL	5 1/4 x 9 1/4
w=	285	plf	R=	2,316 lbs
L=	16.25	ft	M=	9,407 ft-lbs
b=	5.25	in	Fb=	1,508 psi
d=	9.25	in	Fv=	65 psi
E=	2200	ksi	Δ=	0.59 in
Cv=	1.00	≤1.0	I/	332



Sloped		B3*	GL	3 1/2 x 10 1/2
w1=	160	plf	R1 =	1,843 lbs
w2=	160	plf	R2 =	2,313 lbs
L1=	7	ft	M =	8,919 lb-ft
L2=	5	ft	Fb =	1,664 psi
X=	6.9	ft	Fv =	89 psi
P=	2,316	lbs	Δ=	0.29 in
b=	3.50	in	I/	475
d=	10.50	in	Cv=	1.00
E=	1,800	ksi		



Jaffe Residence
PROJECT
Supplemental Gravity Design - Roof

DATE
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PROJ. #
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DESIGN
02
SHEET