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**Subject:** Aldergate United Methodist Church, Frame Reactions

**Date:** Tue, 22 May 2007 09:54:42 -0500

**From:** "Richard DeNunzio" <RDenzio@vp.com>

**To:** chuckdammon@yahoo.com

Chuck,

The building interior frames will have one interior column located in the longitudinal partition wall (ST 5" x 5").

I moved the interior frames to miss the entrance door to the stair.

The building will be a single slope 20'-0 eave at the low side wall with ½:12 rood slope and 23'-11 ½: at the high side wall.

Thanks,

Richard DeNunzio

VP Buildings, Inc.

Office (985) 641-1921

Mobile (985) 707-3676

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### Attachments

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Files:

 **Aldergate\_United\_Methodist\_Reactions.rtf** (642k) [[Preview](#)]

 **frame.prt** (1.2MB)



## **VP Buildings**

3200 Players Club Circle  
Memphis, TN 38125-8843

# **STRUCTURAL DESIGN DATA**

Project: ProMax, Inc.  
Name: Promax Aldergate U.Methodist  
Builder PO #:  
Jobsite:

City, State: Slidell, Louisiana 70460  
County: Saint Tammany  
Country: United States

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# Aldergate United Methodist Reactions

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## Letter of Certification

Contact: Ed Roberts  
Name:  
Address:

Project: ProMax, Inc.  
Builder PO #:  
Jobsite:

City, State:  
Country:

City, State: Slidell, Louisiana 70460  
County, Country: Saint Tammany, United States

This is to certify that the above referenced VP BUILDINGS project has been designed for the applicable portions of the following Building Code and in accordance with the order documents which have stipulated the following applied environmental loads and conditions:

### Overall Building Description

Shape	Overall Width	Overall Length	Floor Area (sq. ft.)	Wall Area (sq. ft.)	Roof Area (sq. ft.)	Max. Eave Height	Min. Eave Height 2	Max. Roof Pitch	Min. Roof Pitch	Peak Height
Aldergate United Methodist Church	95/0/0	100/0/0	9500	8572	9508	23/11/8	20/0/0	0.500:12		

### Loads and Codes - Shape: Aldergate United Methodist Church

City: Slidell County: Saint Tammany  
Building Code: 2006 International Building Code  
Building Use: Standard Occupancy Structure

State: Louisiana  
Built Up: 05AISC - ASD  
Cold Form: 04AISI - ASD

Country: United States  
Rainfall: 12.00 inches per hour

### Dead and Collateral Loads

Collateral Gravity: 5.00 psf  
Collateral Uplift: 5.00 psf

Roof Covering + Second. Dead Load: 2.86 psf  
Frame Weight (assumed for seismic): 2.50 psf

### Live Load

Live Load: 20.00 psf Reducible

### Wind Load

Wind Speed: 130.00 mph  
Wind Exposure (Factor): C (0.920)  
Parts Wind Exposure Factor: 0.920

Wind Enclosure: Enclosed  
Wind Importance Factor: 1.000  
Topographic Factor: 1.0000

NOT Windborne Debris Region  
Base Elevation: 0/0/0  
Primary Zone Strip Width: 17/7/0  
Parts / Portions Zone Strip Width: 8/9/8  
Basic Wind Pressure: 33.83 psf

### Snow Load

Ground Snow Load: 5.00 psf  
Design Snow (Sloped): 5.00 psf  
Snow Exposure Category (Factor): 1 Fully Exposed Seismic Hazard / Use Group: Group 1 (0.90)  
Snow Importance: 1.000  
Thermal Category (Factor): Heated (1.00)  
Ground / Roof Conversion: 0.70  
% Snow Used in Seismic: 0.00  
Seismic Snow Load: 0.00 psf  
Unobstructed, Slippery Roof

### Seismic Load

Mapped Spectral Response - Ss: 15.00 %  
Mapped Spectral Response - S1: 8.00 %  
Seismic Importance: 1.000  
Seismic Performance / Design Category: B  
Framing Seismic Period: 0.3317  
Bracing Seismic Period: 0.2030  
Framing R-Factor: 3.0000  
Bracing R-Factor: 3.0000  
Soil Profile Type: Stiff soil (D, 4)  
Frame Redundancy Factor: 1.0000  
Brace Redundancy Factor: 1.0000  
Frame Seismic Factor (Cs): 0.0533 x W  
Brace Seismic Factor (Cs): 0.0533 x W

Per Article 2.9 in the Builder Agreement, VP Buildings assumes that the Builder has called the local Building Official or Project Engineer to obtain all code and loading information for this specific building site.

The steel design is in accordance with VP BUILDINGS standard design practices, which have been established based upon pertinent procedures and recommendations of the following organizations :

- American Institute of Steel Construction (AISC)
- American Iron and Steel Institute (AISI)
- American Welding Society (AWS)
- American Society for Testing and Materials (ASTM)
- Canadian Standards Association
- CSA W59-Welded Steel Construction
- Limit State Design of Steel Structures
- Metal Building Manufacturers Association (MBMA)
- VP Buildings is certified by:
  - AISC-MB Certified (Design and Manufacturing)
  - CSA A660 Certified (Design and Manufacturing)
  - IAS Approved Fabricator
  - Canadian Welding Bureau Div. 1 Certified

VP Buildings has designed the structural steel components of this building in accordance with the Building Code, Steel Specifications, and Standards indicated above. Steel components are designed utilizing the following steel grades unless noted otherwise:

- 3 Plate members fabricated from plate, bar, strip steel or sheets
  - ASTM A529, A572, A1011 - All Grade 50 ksi
- Hot Rolled Shapes (W, S, C, Angles, etc)



## Aldergate United Methodist Reactions

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ASTM A36, or ASTM A36Mod50, A529, A572, A588, A709, A992-All Grade 50 ksi  
Tube and Pipe Sections ASTM A500, Grade B (Fy - 42 ksi pipe, Fy - 46 ksi tube)  
Light Gage Sections ASTM A1011 SS Grade 55 ksi, A653 SS Grade 55 ksi  
Round Rod Bracing ASTM A572 Grade 65 ksi

This certification DOES NOT apply to the design of the foundation or other on-site structures or components not supplied by VP BUILDINGS, nor does it apply to unauthorized modifications to framing systems provided by VP BUILDINGS.  
Furthermore, it is understood that certification is based upon the premise that all components furnished by VP BUILDINGS will be erected or constructed in strict compliance with pertinent documents furnished by VP BUILDINGS.

Sincerely,

\_\_\_\_\_  
VP BUILDINGS  
3200 Players Club Circle, Memphis TN 38125-8843

P.E. Prepared by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_



# Aldergate United Methodist Reactions

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## Reactions - Expanded Report

### Shape: Aldergate United Methodist Church

Builder Contact:  
Name:  
Address:

Project: ProMax, Inc.  
Builder PO #:  
Jobsite:

City, State Zip:  
Country:

City, State Zip: Slidell, Louisiana 70460  
County, Country: Saint Tammany, United States

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State: Louisiana Country: United States  
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Collateral Uplift: 5.00 psf

Roof Covering + Second. Dead Load: 2.86 psf  
Frame Weight (assumed for seismic): 2.50 psf

#### Live Load

Live Load: 20.00 psf Reducible

#### Wind Load

Wind Speed: 130.00 mph  
Wind Exposure (Factor): C (0.920)  
Parts Wind Exposure Factor: 0.920

Wind Enclosure: Enclosed  
Wind Importance Factor: 1.000  
Topographic Factor: 1.0000

NOT Windborne Debris Region  
Base Elevation: 0/0/0  
Primary Zone Strip Width: 17/7/0  
Parts / Portions Zone Strip Width: 8/9/8  
Basic Wind Pressure: 33.83 psf

#### Snow Load

Ground Snow Load: 5.00 psf  
Design Snow (Sloped): 5.00 psf  
Snow Exposure Category (Factor): 1 Fully Exposed Seismic Hazard / Use Group: Group 1 (0.90)  
Snow Importance: 1.000  
Thermal Category (Factor): Heated (1.00)  
Ground / Roof Conversion: 0.70  
% Snow Used in Seismic: 0.00  
Seismic Snow Load: 0.00 psf  
Unobstructed, Slippery Roof

#### Seismic Load

Mapped Spectral Response - Ss: 15.00 %g  
Mapped Spectral Response - S1: 8.00 %g  
Seismic Hazard / Use Group: Group 1  
Seismic Importance: 1.000  
Seismic Performance / Design Category: B  
Framing Seismic Period: 0.3317  
Bracing Seismic Period: 0.2030  
Framing R-Factor: 3.0000  
Bracing R-Factor: 3.0000  
Soil Profile Type: Stiff soil (D, 4)  
Frame Redundancy Factor: 1.0000  
Brace Redundancy Factor: 1.0000  
Frame Seismic Factor (Cs): 0.0533 x W  
Brace Seismic Factor (Cs): 0.0533 x W

Per Article 2.9 in the Builder Agreement, VP Buildings assumes that the Builder has called the local Building Official or Project Engineer to obtain all code and loading information for this specific building site.

#### Load Type Descriptions

D	Material Dead Weight	C	Collateral Load
CG	Collateral Load for Gravity Cases	CU	Collateral Load for Wind Cases
L	Live Load	ASL^	Alternate Span Live Load, Shifted Right
^ASL	Alternate Span Live Load, Shifted Left	PL2	Partial Live, Full, 2 Spans
S	Snow Load	US1*	Unbalanced Snow Load 1, Shifted Right
*US1	Unbalanced Snow Load 1, Shifted Left	US2*	Unbalanced Snow Load 2, Shifted Right
*US2	Unbalanced Snow Load 2, Shifted Left	SD	Snow Drift Load
SS	Sliding Snow Load	RS	Rain Surcharge Load
PF1	Partial Load, Full, 1 Span	PH1	Partial Load, Half, 1 Span
PF2	Partial Load, Full, 2 Spans	PH2	Partial Load, Half, 2 Spans
W	Wind Load	W1>	Wind Load, Case 1, Right
<W1	Wind Load, Case 1, Left	W2>	Wind Load, Case 2, Right
<W2	Wind Load, Case 2, Left	W3>	Wind Load, Case 3, Right
<W3	Wind Load, Case 3, Left	W4>	Wind Load, Case 4, Right
<W4	Wind Load, Case 4, Left	W5>	Wind Load, Case 5, Right
<W5	Wind Load, Case 5, Left	W6>	Wind Load, Case 6, Right
<W6	Wind Load, Case 6, Left	WP	Wind Load, Parallel to Ridge
WPR	Wind Load,    Ridge, Right	WPL	Wind Load,    Ridge, Left
WPA1	Wind Parallel - Ref A, Case 1	WPA2	Wind Parallel - Ref A, Case 2
WPB1	Wind Parallel - Ref B, Case 1	WPB2	Wind Parallel - Ref B, Case 2
WPC1	Wind Parallel - Ref C, Case 1	WPC2	Wind Parallel - Ref C, Case 2
WPD1	Wind Parallel - Ref D, Case 1	WPD2	Wind Parallel - Ref D, Case 2
WB1>	Wind Brace Reaction, Case 1, Right	<WB1	Wind Brace Reaction, Case 1, Left
WB2>	Wind Brace Reaction, Case 2, Right	<WB2	Wind Brace Reaction, Case 2, Left
WB3>	Wind Brace Reaction, Case 3, Right	<WB3	Wind Brace Reaction, Case 3, Left
WB4>	Wind Brace Reaction, Case 4, Right	<WB4	Wind Brace Reaction, Case 4, Left
WB5>	Wind Brace Reaction, Case 5, Right	<WB5	Wind Brace Reaction, Case 5, Left
WB6>	Wind Brace Reaction, Case 6, Right	<WB6	Wind Brace Reaction, Case 6, Left



Aldergate United Methodist Reactions

Table with 4 columns: MW, E, <E, EG+, EB>, FL, \*FL, AL, \*AL>, <\*AL, <\*AL, \*AL, \*AL>(1), <\*AL(1), \*AL(1), \*AL>(2), <\*AL(2), \*AL(2), \*AL>(3), <\*AL(3), \*AL(3), \*AL>(4), <\*AL(4), \*AL(4), \*AL>(5), <\*AL(5), \*AL(5), ALB>, WALB>, ALB>(1), WALB>(1), ALB>(2), WALB>(2), ALB>(3), WALB>(3), ALB>(4), WALB>(4), ALB>(5), WALB>(5), WALB, U0, U2, U4, U6, U8, UB, UB2, UB4, UB6, UB8, R, V, MWB, E>, EG, EG-, <EB, FL\*, FD, AL\*>, <AL\*, AL\*, AL\*>(1), <AL\*(1), AL\*(1), AL\*>(2), <AL\*(2), AL\*(2), AL\*>(3), <AL\*(3), AL\*(3), AL\*>(4), <AL\*(4), AL\*(4), AL\*>(5), <AL\*(5), AL\*(5), ALB, <ALB, <WALB, <ALB(1), <WALB(1), <ALB(2), <WALB(2), <ALB(3), <WALB(3), <ALB(4), <WALB(4), <ALB(5), <WALB(5), AD, U1, U3, U5, U7, U9, UB1, UB3, UB5, UB7, UB9, T



# Aldergate United Methodist Reactions

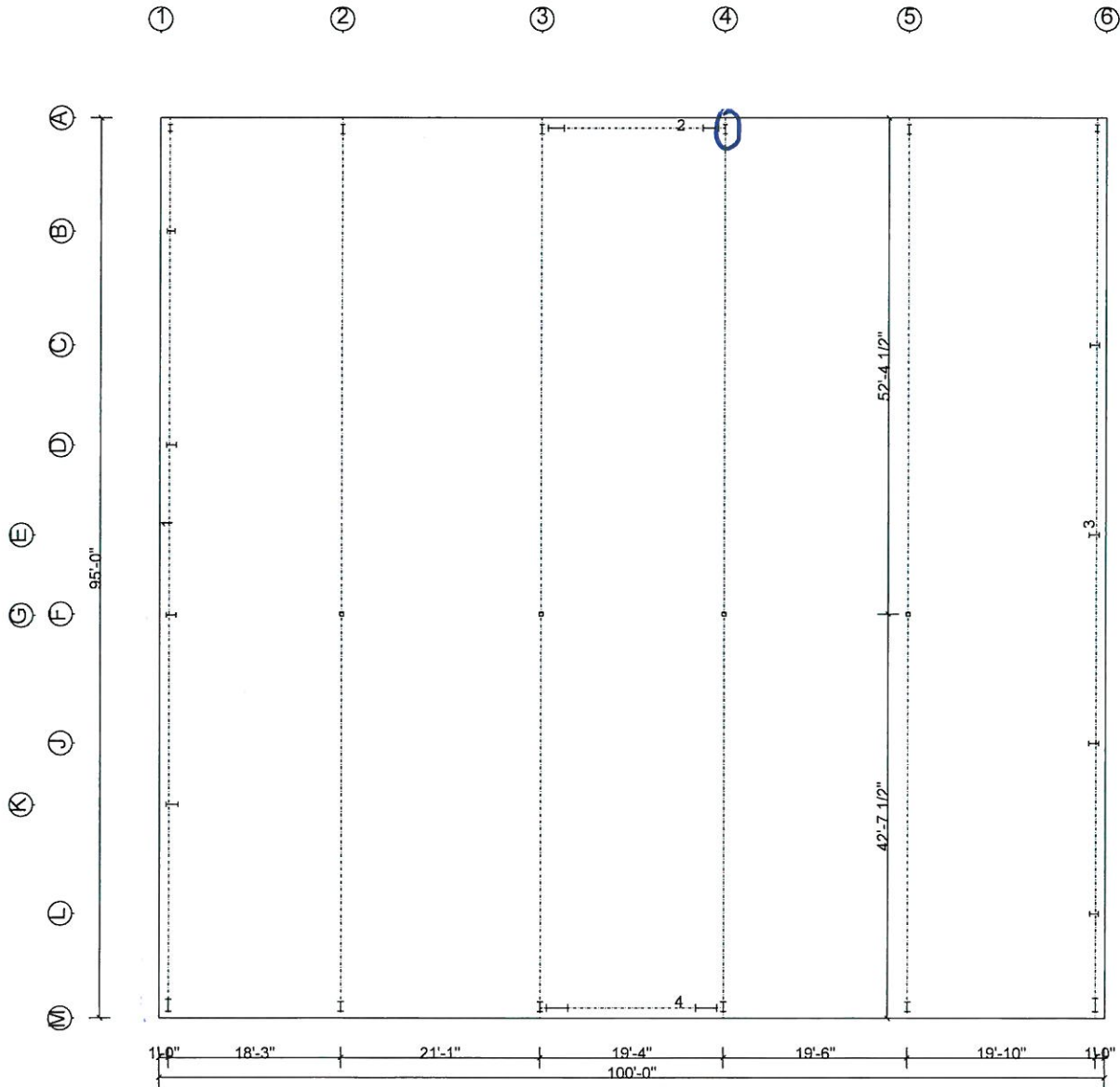
Date: 5/22/2007  
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### Overall Building Description

Shape	Overall Width	Overall Length	Floor Area (sq. ft.)	Wall Area (sq. ft.)	Roof Area (sq. ft.)	Max. Eave Height	Min. Eave Height 2	Max. Roof Pitch	Min. Roof Pitch	Peak Height
Aldergate United Methodist Church	95/0/0	100/0/0	9500	8572	9508	23/11/8	20/0/0	0.500:12		

### Overall Shape Description

Roof 1	Roof 2	From Grid	To Grid	Width	Length	Eave Ht.	Eave Ht. 2	Pitch	Pitch 2	Dist. to Ridge	Peak Height
A		1-A	1-M	95/0/0	100/0/0	20/0/0	23/11/8	0.500:12			



FRONT



# Aldergate United Methodist Reactions

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**Wall: 2**

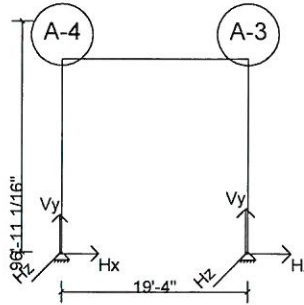
**Design Load Combinations - Framing**

No.	Origin	Factor	Application	Description
1	System	1.000	1.0 D + 1.0 CG + 1.0 L	D + CG + L
2	System	1.000	1.0 D + 1.0 CG + 1.0 S	D + CG + S
3	System	1.000	1.0 D + 1.0 CG + 1.0 W1>	D + CG + W1>
4	System	1.000	1.0 D + 1.0 CG + 1.0 <W1	D + CG + <W1
5	System	1.000	1.0 D + 1.0 CG + 1.0 W2>	D + CG + W2>
6	System	1.000	1.0 D + 1.0 CG + 1.0 <W2	D + CG + <W2
7	System	1.000	0.600 D + 0.600 CU + 1.0 W1>	D + CU + W1>
8	System	1.000	0.600 D + 0.600 CU + 1.0 <W1	D + CU + <W1
9	System	1.000	0.600 D + 0.600 CU + 1.0 W2>	D + CU + W2>
10	System	1.000	0.600 D + 0.600 CU + 1.0 <W2	D + CU + <W2
11	System	1.000	1.0 D + 1.0 CG + 0.700 E> + 0.700 EG+	D + CG + E> + EG+
12	System	1.000	1.0 D + 1.0 CG + 0.700 <E + 0.700 EG+	D + CG + <E + EG+
13	System	1.000	0.600 D + 0.600 CU + 0.700 E> + 0.700 EG-	D + CG + E> + EG-
14	System	1.000	0.600 D + 0.600 CU + 0.700 <E + 0.700 EG-	D + CU + <E + EG-
15	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W1>	D + CG + L + W1>
16	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W1	D + CG + L + <W1
17	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W2>	D + CG + L + W2>
18	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W2	D + CG + L + <W2
19	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W1>	D + CG + S + W1>
20	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W1	D + CG + S + <W1
21	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W2>	D + CG + S + W2>
22	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W2	D + CG + S + <W2
23	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA1	D + CG + WPA1
24	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA1	D + CU + WPA1
25	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA1	D + CG + L + WPA1
26	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA1	D + CG + S + WPA1
27	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD1	D + CG + WPD1
28	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD1	D + CU + WPD1
29	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD1	D + CG + L + WPD1
30	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD1	D + CG + S + WPD1
31	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA2	D + CG + WPA2
32	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA2	D + CU + WPA2
33	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA2	D + CG + L + WPA2
34	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA2	D + CG + S + WPA2
35	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD2	D + CG + WPD2
36	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD2	D + CU + WPD2
37	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD2	D + CG + L + WPD2
38	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD2	D + CG + S + WPD2
39	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB1	D + CG + WPB1
40	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB1	D + CU + WPB1
41	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB1	D + CG + L + WPB1
42	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB1	D + CG + S + WPB1
43	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC1	D + CG + WPC1
44	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC1	D + CU + WPC1
45	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC1	D + CG + L + WPC1
46	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC1	D + CG + S + WPC1
47	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB2	D + CG + WPB2
48	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB2	D + CU + WPB2
49	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB2	D + CG + L + WPB2
50	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB2	D + CG + S + WPB2
51	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC2	D + CG + WPC2
52	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC2	D + CU + WPC2
53	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC2	D + CG + L + WPC2
54	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC2	D + CG + S + WPC2
55	System Derived	1.000	1.0 D + 1.0 CG + 0.700 EB> + 0.700 EG+	D + CG + EB> + EG+
56	System Derived	1.000	0.600 D + 0.600 CU + 0.700 EB> + 0.700 EG-	D + CU + EB> + EG-
57	System Derived	1.000	1.0 D + 1.0 CG + 0.700 <EB + 0.700 EG+	D + CG + <EB + EG+
58	System Derived	1.000	0.600 D + 0.600 CU + 0.700 <EB + 0.700 EG-	D + CU + <EB + EG-

**Wall: 2**

Frame ID:Portal Frame

Frame Type:Portal Frame



Values shown are resisting forces of the foundation.

**Reactions - Unfactored Load Type at Frame Cross Section: A**

Type		Exterior Column		Exterior Column				
X-Loc		0/0/0		19/4/0				
Grid1 - Grid2		A-4		A-3				
Base Plate W x L (in.)		9 x 21		9 x 21				
Base Plate Thickness (in.)		0.375		0.375				
Anchor Rod Qty/Diam. (in.)		4 - 0.750		4 - 0.750				
Column Base Elev.		100'-0"		100'-0"				
Load Type	Desc.	Hx	Vy	Hx	Vy			
D	Frm	0.0	0.7	-0.0	0.7	-	-	-
CG	Frm	-	-	-	-	-	-	-
L	Frm	-	-	-	-	-	-	-
S	Frm	-	-	-	-	-	-	-
W1>	Frm	-	-	-	-	-	-	-
<W1	Frm	-	-	-	-	-	-	-
W2>	Frm	-	-	-	-	-	-	-
<W2	Frm	-	-	-	-	-	-	-
CU	Frm	-	-	-	-	-	-	-
E>	Frm	-	-	-	-	-	-	-
EG+	Frm	-	-	-	-	-	-	-
<E	Frm	-	-	-	-	-	-	-
EG-	Frm	-	-	-	-	-	-	-
WPA1	Brc	6.2	14.2	5.9	-14.2	-	-	-
WPD1	Brc	-5.9	-14.2	-6.2	14.2	-	-	-
WPA2	Brc	6.2	14.2	5.9	-14.2	-	-	-
WPD2	Brc	-5.9	-14.2	-6.2	14.2	-	-	-
WPB1	Brc	7.0	15.8	6.6	-15.8	-	-	-
WPC1	Brc	-6.6	-15.8	-7.0	15.8	-	-	-
WPB2	Brc	7.0	15.8	6.6	-15.8	-	-	-
WPC2	Brc	-6.6	-15.8	-7.0	15.8	-	-	-
EB>	Brc	1.3	3.1	1.3	-3.1	-	-	-
<EB	Brc	-1.3	-3.1	-1.3	3.1	-	-	-

**Frame Reactions - Factored Load Cases at Frame Cross Section: A**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		19/4/0				
Grid1 - Grid2		A-4		A-3				
Ld	Description	Hx	Vy	Hx	Vy			
Cs	(application factor not shown)	(k)	(k)	(k)	(k)			
1	D + CG + L	0.0	0.7	-0.0	0.7	-	-	-
2	D + CG + S	0.0	0.7	-0.0	0.7	-	-	-



# Aldergate United Methodist Reactions

3	D + CG + W1>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
4	D + CG + <W1	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
5	D + CG + W2>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
6	D + CG + <W2	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
7	D + CU + W1>	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
8	D + CU + <W1	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
9	D + CU + W2>	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
10	D + CU + <W2	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
11	D + CG + E> + EG+	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
12	D + CG + <E + EG+	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
13	D + CU + E> + EG-	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
14	D + CU + <E + EG-	0.0	0.4	-0.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-
15	D + CG + L + W1>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
16	D + CG + L + <W1	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
17	D + CG + L + W2>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
18	D + CG + L + <W2	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
19	D + CG + S + W1>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
20	D + CG + S + <W1	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
21	D + CG + S + W2>	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
22	D + CG + S + <W2	0.0	0.7	-0.0	0.7	-	-	-	-	-	-	-	-	-	-	-	-
23	D + CG + WPA1	6.3	14.9	5.9	-13.5	-	-	-	-	-	-	-	-	-	-	-	-
24	D + CU + WPA1	6.2	14.6	5.9	-13.7	-	-	-	-	-	-	-	-	-	-	-	-
25	D + CG + L + WPA1	4.7	11.3	4.4	-9.9	-	-	-	-	-	-	-	-	-	-	-	-
26	D + CG + S + WPA1	4.7	11.3	4.4	-9.9	-	-	-	-	-	-	-	-	-	-	-	-
27	D + CG + WPD1	-5.9	-13.5	-6.3	14.9	-	-	-	-	-	-	-	-	-	-	-	-
28	D + CU + WPD1	-5.9	-13.7	-6.2	14.6	-	-	-	-	-	-	-	-	-	-	-	-
29	D + CG + L + WPD1	-4.4	-9.9	-4.7	11.3	-	-	-	-	-	-	-	-	-	-	-	-
30	D + CG + S + WPD1	-4.4	-9.9	-4.7	11.3	-	-	-	-	-	-	-	-	-	-	-	-
31	D + CG + WPA2	6.3	14.9	5.9	-13.5	-	-	-	-	-	-	-	-	-	-	-	-
32	D + CU + WPA2	6.2	14.6	5.9	-13.7	-	-	-	-	-	-	-	-	-	-	-	-
33	D + CG + L + WPA2	4.7	11.3	4.4	-9.9	-	-	-	-	-	-	-	-	-	-	-	-
34	D + CG + S + WPA2	4.7	11.3	4.4	-9.9	-	-	-	-	-	-	-	-	-	-	-	-
35	D + CG + WPD2	-5.9	-13.5	-6.3	14.9	-	-	-	-	-	-	-	-	-	-	-	-
36	D + CU + WPD2	-5.9	-13.7	-6.2	14.6	-	-	-	-	-	-	-	-	-	-	-	-
37	D + CG + L + WPD2	-4.4	-9.9	-4.7	11.3	-	-	-	-	-	-	-	-	-	-	-	-
38	D + CG + S + WPD2	-4.4	-9.9	-4.7	11.3	-	-	-	-	-	-	-	-	-	-	-	-
39	D + CG + WPB1	7.0	16.5	6.6	-15.2	-	-	-	-	-	-	-	-	-	-	-	-
40	D + CU + WPB1	7.0	16.3	6.6	-15.4	-	-	-	-	-	-	-	-	-	-	-	-
41	D + CG + L + WPB1	5.3	12.6	5.0	-11.2	-	-	-	-	-	-	-	-	-	-	-	-
42	D + CG + S + WPB1	5.3	12.6	5.0	-11.2	-	-	-	-	-	-	-	-	-	-	-	-
43	D + CG + WPC1	-6.6	-15.2	-7.0	16.5	-	-	-	-	-	-	-	-	-	-	-	-
44	D + CU + WPC1	-6.6	-15.4	-7.0	16.3	-	-	-	-	-	-	-	-	-	-	-	-
45	D + CG + L + WPC1	-5.0	-11.2	-5.3	12.6	-	-	-	-	-	-	-	-	-	-	-	-
46	D + CG + S + WPC1	-5.0	-11.2	-5.3	12.6	-	-	-	-	-	-	-	-	-	-	-	-
47	D + CG + WPB2	7.0	16.5	6.6	-15.1	-	-	-	-	-	-	-	-	-	-	-	-
48	D + CU + WPB2	7.0	16.3	6.6	-15.4	-	-	-	-	-	-	-	-	-	-	-	-
49	D + CG + L + WPB2	5.3	12.6	5.0	-11.2	-	-	-	-	-	-	-	-	-	-	-	-
50	D + CG + S + WPB2	5.3	12.6	5.0	-11.2	-	-	-	-	-	-	-	-	-	-	-	-
51	D + CG + WPC2	-6.6	-15.1	-7.0	16.5	-	-	-	-	-	-	-	-	-	-	-	-
52	D + CU + WPC2	-6.6	-15.4	-7.0	16.3	-	-	-	-	-	-	-	-	-	-	-	-
53	D + CG + L + WPC2	-5.0	-11.2	-5.3	12.6	-	-	-	-	-	-	-	-	-	-	-	-
54	D + CG + S + WPC2	-5.0	-11.2	-5.3	12.6	-	-	-	-	-	-	-	-	-	-	-	-
55	D + CG + EB> + EG+	1.0	2.8	0.9	-1.4	-	-	-	-	-	-	-	-	-	-	-	-
56	D + CU + EB> + EG-	1.0	2.6	0.9	-1.7	-	-	-	-	-	-	-	-	-	-	-	-
57	D + CG + <EB + EG+	-0.9	-1.4	-1.0	2.8	-	-	-	-	-	-	-	-	-	-	-	-
58	D + CU + <EB + EG-	-0.9	-1.7	-1.0	2.6	-	-	-	-	-	-	-	-	-	-	-	-

**Maximum Combined Reactions Summary with Factored Loads - Framing**

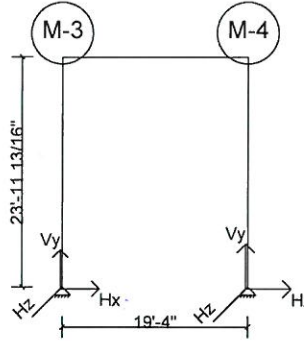
Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hz)	Load Case	Hz Right (Hz)	Load Case	Hz In (-Hz)	Load Case	Hz Out (Hz)	Load Case	Uplift (-Vy)	Load Case	Vrt Down (Vy)	Load Case	Mom cw (-Mzz)	Load Case	Mom ccw (Mzz)	Load Case
0/0/0	A-4	6.6	44	7.0	39	-	-	-	-	15.4	44	16.5	39	-	-	-	-
19/4/0	A-3	7.0	43	6.6	40	-	-	-	-	15.4	40	16.5	43	-	-	-	-

**Wall: 4**

Frame ID:Portal Frame

Frame Type:Portal Frame



Values shown are resisting forces of the foundation.

**Reactions - Unfactored Load Type at Frame Cross Section: M**

Type		Exterior Column		Exterior Column					
X-Loc		0/0/0		19/4/0					
Grid1 - Grid2		M-3		M-4					
Base Plate W x L (in.)		10 x 28		10 x 28					
Base Plate Thickness (in.)		0.375		0.375					
Anchor Rod Qty/Diam. (in.)		4 - 0.750		4 - 0.750					
Column Base Elev.		100'-0"		100'-0"					
Load Type	Desc.	Hx	Vy	Hx	Vy				
D	Frm	0.0	1.0	-0.0	1.0	-	-	-	-
CG	Frm	-	-	-	-	-	-	-	-
L	Frm	-	-	-	-	-	-	-	-
S	Frm	-	-	-	-	-	-	-	-
W1>	Frm	-	-	-	-	-	-	-	-
<W1	Frm	-	-	-	-	-	-	-	-
W2>	Frm	-	-	-	-	-	-	-	-
<W2	Frm	-	-	-	-	-	-	-	-
CU	Frm	-	-	-	-	-	-	-	-
E>	Frm	-	-	-	-	-	-	-	-
EG+	Frm	-	-	-	-	-	-	-	-
<E	Frm	-	-	-	-	-	-	-	-
EG-	Frm	-	-	-	-	-	-	-	-
WPA1	Brc	-7.1	21.3	-7.5	21.3	-	-	-	-
WPD1	Brc	7.5	21.3	7.1	-21.3	-	-	-	-
WPA2	Brc	-7.1	-21.3	-7.5	21.3	-	-	-	-
WPD2	Brc	7.5	21.3	7.1	-21.3	-	-	-	-
WPB1	Brc	-6.3	-18.7	-6.6	18.7	-	-	-	-
WPC1	Brc	6.6	18.7	6.3	-18.7	-	-	-	-
WPB2	Brc	-6.3	-18.7	-6.6	18.7	-	-	-	-
WPC2	Brc	6.6	18.7	6.3	-18.7	-	-	-	-
EB>	Brc	-1.3	-3.9	-1.4	3.9	-	-	-	-
<EB	Brc	1.4	3.9	1.3	-3.9	-	-	-	-

**Frame Reactions - Factored Load Cases at Frame Cross Section: M**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		19/4/0					
Grid1 - Grid2		M-3		M-4					
Ld	Description	Hx	Vy	Hx	Vy				
Cs	(application factor not shown)	(k)	(k)	(k)	(k)				
1	D + CG + L	0.0	1.0	-0.0	1.0	-	-	-	-
2	D + CG + S	0.0	1.0	-0.0	1.0	-	-	-	-



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3	D + CG + W1>	0.0	1.0	-0.0	1.0	-	-	-	-
4	D + CG + <W1	0.0	1.0	-0.0	1.0	-	-	-	-
5	D + CG + W2>	0.0	1.0	-0.0	1.0	-	-	-	-
6	D + CG + <W2	0.0	1.0	-0.0	1.0	-	-	-	-
7	D + CU + W1>	0.0	0.6	-0.0	0.6	-	-	-	-
8	D + CU + <W1	0.0	0.6	-0.0	0.6	-	-	-	-
9	D + CU + W2>	0.0	0.6	-0.0	0.6	-	-	-	-
10	D + CU + <W2	0.0	0.6	-0.0	0.6	-	-	-	-
11	D + CG + E> + EG+	0.0	1.0	-0.0	1.0	-	-	-	-
12	D + CG + <E + EG+	0.0	1.0	-0.0	1.0	-	-	-	-
13	D + CU + E> + EG-	0.0	0.6	-0.0	0.6	-	-	-	-
14	D + CU + <E + EG-	0.0	0.6	-0.0	0.6	-	-	-	-
15	D + CG + L + W1>	0.0	1.0	-0.0	1.0	-	-	-	-
16	D + CG + L + <W1	0.0	1.0	-0.0	1.0	-	-	-	-
17	D + CG + L + W2>	0.0	1.0	-0.0	1.0	-	-	-	-
18	D + CG + L + <W2	0.0	1.0	-0.0	1.0	-	-	-	-
19	D + CG + S + W1>	0.0	1.0	-0.0	1.0	-	-	-	-
20	D + CG + S + <W1	0.0	1.0	-0.0	1.0	-	-	-	-
21	D + CG + S + W2>	0.0	1.0	-0.0	1.0	-	-	-	-
22	D + CG + S + <W2	0.0	1.0	-0.0	1.0	-	-	-	-
23	D + CG + WPA1	-7.1	-20.3	-7.5	22.2	-	-	-	-
24	D + CU + WPA1	-7.1	-20.7	-7.5	21.9	-	-	-	-
25	D + CG + L + WPA1	-5.3	-15.0	-5.7	16.9	-	-	-	-
26	D + CG + S + WPA1	-5.3	-15.0	-5.7	16.9	-	-	-	-
27	D + CG + WPD1	7.5	22.2	7.1	-20.3	-	-	-	-
28	D + CU + WPD1	7.5	21.9	7.1	-20.7	-	-	-	-
29	D + CG + L + WPD1	5.7	16.9	5.3	-15.0	-	-	-	-
30	D + CG + S + WPD1	5.7	16.9	5.3	-15.0	-	-	-	-
31	D + CG + WPA2	-7.1	-20.3	-7.5	22.2	-	-	-	-
32	D + CU + WPA2	-7.1	-20.7	-7.5	21.8	-	-	-	-
33	D + CG + L + WPA2	-5.3	-15.0	-5.7	16.9	-	-	-	-
34	D + CG + S + WPA2	-5.3	-15.0	-5.7	16.9	-	-	-	-
35	D + CG + WPD2	7.5	22.2	7.1	-20.3	-	-	-	-
36	D + CU + WPD2	7.5	21.8	7.1	-20.7	-	-	-	-
37	D + CG + L + WPD2	5.7	16.9	5.3	-15.0	-	-	-	-
38	D + CG + S + WPD2	5.7	16.9	5.3	-15.0	-	-	-	-
39	D + CG + WPB1	-6.2	-17.7	-6.6	19.6	-	-	-	-
40	D + CU + WPB1	-6.3	-18.1	-6.6	19.3	-	-	-	-
41	D + CG + L + WPB1	-4.7	-13.0	-5.0	15.0	-	-	-	-
42	D + CG + S + WPB1	-4.7	-13.0	-5.0	15.0	-	-	-	-
43	D + CG + WPC1	6.6	19.6	6.2	-17.7	-	-	-	-
44	D + CU + WPC1	6.6	19.3	6.3	-18.1	-	-	-	-
45	D + CG + L + WPC1	5.0	15.0	4.7	-13.0	-	-	-	-
46	D + CG + S + WPC1	5.0	15.0	4.7	-13.0	-	-	-	-
47	D + CG + WPB2	-6.2	-17.7	-6.6	19.6	-	-	-	-
48	D + CU + WPB2	-6.2	-18.1	-6.6	19.2	-	-	-	-
49	D + CG + L + WPB2	-4.7	-13.0	-5.0	15.0	-	-	-	-
50	D + CG + S + WPB2	-4.7	-13.0	-5.0	15.0	-	-	-	-
51	D + CG + WPC2	6.6	19.6	6.2	-17.7	-	-	-	-
52	D + CU + WPC2	6.6	19.2	6.2	-18.1	-	-	-	-
53	D + CG + L + WPC2	5.0	15.0	4.7	-13.0	-	-	-	-
54	D + CG + S + WPC2	5.0	15.0	4.7	-13.0	-	-	-	-
55	D + CG + EB> + EG+	-0.9	-1.8	-1.0	3.7	-	-	-	-
56	D + CU + EB> + EG-	-0.9	-2.1	-1.0	3.3	-	-	-	-
57	D + CG + <EB + EG+	1.0	3.7	0.9	-1.8	-	-	-	-
58	D + CU + <EB + EG-	1.0	3.3	0.9	-2.1	-	-	-	-

**Maximum Combined Reactions Summary with Factored Loads - Framing**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	M-3	7.1	24	7.5	27	-	-	-	-	20.7	24	22.2	27	-	-	-	-
19/4/0	M-4	7.5	23	7.1	28	-	-	-	-	20.7	28	22.2	23	-	-	-	-



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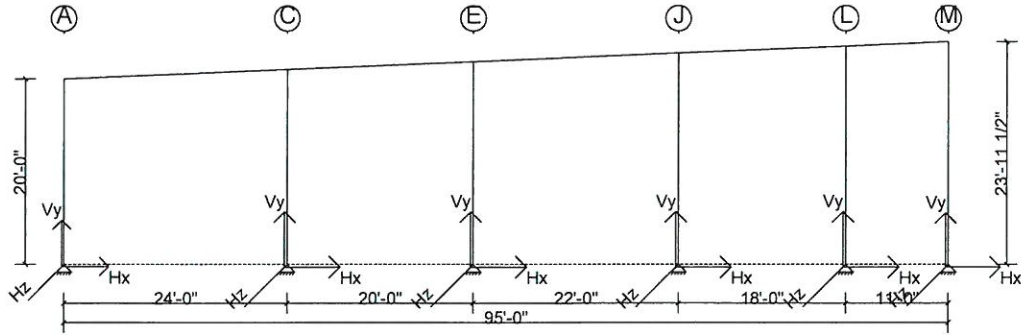
**Wall: 2, Frame at: 1/0/0**

**Design Load Combinations - Framing**

No.	Origin	Factor	Application	Description
1	System	1.000	1.0 D + 1.0 CG + 1.0 L	D + CG + L
2	System	1.000	1.0 D + 1.0 CG + 1.0 ASL^	D + CG + ASL^
3	System	1.000	1.0 D + 1.0 CG + 1.0 ^ASL	D + CG + ^ASL
8	System	1.000	1.0 D + 1.0 CG + 1.0 S	D + CG + S
17	System	1.000	1.0 D + 1.0 CG + 1.0 W1>	D + CG + W1>
18	System	1.000	1.0 D + 1.0 CG + 1.0 <W1	D + CG + <W1
19	System	1.000	1.0 D + 1.0 CG + 1.0 W2>	D + CG + W2>
20	System	1.000	1.0 D + 1.0 CG + 1.0 <W2	D + CG + <W2
21	System	1.000	0.600 D + 0.600 CU + 1.0 W1>	D + CU + W1>
22	System	1.000	0.600 D + 0.600 CU + 1.0 <W1	D + CU + <W1
23	System	1.000	0.600 D + 0.600 CU + 1.0 W2>	D + CU + W2>
24	System	1.000	0.600 D + 0.600 CU + 1.0 <W2	D + CU + <W2
25	System	1.000	1.0 D + 1.0 CG + 0.700 E> + 0.700 EG+	D + CG + E> + EG+
26	System	1.000	1.0 D + 1.0 CG + 0.700 <E + 0.700 EG+	D + CG + <E + EG+
27	System	1.000	0.600 D + 0.600 CU + 0.700 E> + 0.700 EG-	D + CU + E> + EG-
28	System	1.000	0.600 D + 0.600 CU + 0.700 <E + 0.700 EG-	D + CU + <E + EG-
29	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W1>	D + CG + L + W1>
30	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W1	D + CG + L + <W1
31	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W2>	D + CG + L + W2>
32	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W2	D + CG + L + <W2
33	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W1>	D + CG + S + W1>
34	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W1	D + CG + S + <W1
35	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W2>	D + CG + S + W2>
36	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W2	D + CG + S + <W2
37	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA1	D + CG + WPA1
38	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA1	D + CU + WPA1
39	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA1	D + CG + L + WPA1
40	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA1	D + CG + S + WPA1
41	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD1	D + CG + WPD1
42	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD1	D + CU + WPD1
43	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD1	D + CG + L + WPD1
44	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD1	D + CG + S + WPD1
45	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA2	D + CG + WPA2
46	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA2	D + CU + WPA2
47	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA2	D + CG + L + WPA2
48	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA2	D + CG + S + WPA2
49	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD2	D + CG + WPD2
50	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD2	D + CU + WPD2
51	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD2	D + CG + L + WPD2
52	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD2	D + CG + S + WPD2
53	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB1	D + CG + WPB1
54	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB1	D + CU + WPB1
55	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB1	D + CG + L + WPB1
56	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB1	D + CG + S + WPB1
57	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC1	D + CG + WPC1
58	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC1	D + CU + WPC1
59	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC1	D + CG + L + WPC1
60	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC1	D + CG + S + WPC1
61	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB2	D + CG + WPB2
62	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB2	D + CU + WPB2
63	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB2	D + CG + L + WPB2
64	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB2	D + CG + S + WPB2
65	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC2	D + CG + WPC2
66	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC2	D + CU + WPC2
67	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC2	D + CG + L + WPC2
68	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC2	D + CG + S + WPC2
69	System Derived	1.000	1.0 D + 1.0 CG + 0.700 EB> + 0.700 EG+	D + CG + EB> + EG+
70	System Derived	1.000	0.600 D + 0.600 CU + 0.700 EB> + 0.700 EG-	D + CU + EB> + EG-
71	System Derived	1.000	1.0 D + 1.0 CG + 0.700 <EB + 0.700 EG+	D + CG + <EB + EG+
72	System Derived	1.000	0.600 D + 0.600 CU + 0.700 <EB + 0.700 EG-	D + CU + <EB + EG-

Wall: 2, Frame at: 1/0/0  
 Frame ID:REW post and beam

Frame Type:Post & Beam



Values shown are resisting forces of the foundation.  
 Reactions - Unfactored Load Type at Frame Cross Section: 6

Type		Exterior Column			Interior Column			Interior Column			Interior Column			Interior Column		
X-Loc		0/0/0			24/0/0			44/0/0			66/0/0			84/0/0		
Grid1 - Grid2		6-A			6-C			6-E			6-J			6-L		
Base Plate W x L (in.)		8 x 10			8 x 13			8 x 14			8 x 14			8 x 12		
Base Plate Thickness (in.)		0.375			0.375			0.375			0.375			0.375		
Anchor Rod Qty/Diam. (in.)		2 - 0.750			4 - 0.750			4 - 0.750			4 - 0.750			4 - 0.750		
Column Base Elev.		100'-0"			100'-0"			100'-0"			100'-0"			100'-0"		
Load Type	Desc.	Hx	Vy	Hx	Hx	Vy	Hx	Hx	Vy	Hx	Hx	Vy	Hx	Hx	Vy	
D	Frm	-	0.5	-	-	1.2	-	-	1.0	-	-	1.1	-	-	0.8	
CG	Frm	-	0.6	-	-	1.3	-	-	1.1	-	-	1.2	-	-	0.8	
L	Frm	-	2.1	-	-	5.2	-	-	4.3	-	-	4.6	-	-	3.2	
ASL^	Frm	-	-0.2	-	-	2.4	-	-	2.2	-	-	1.7	-	-	2.7	
^ASL	Frm	-	2.4	-	-	2.7	-	-	2.1	-	-	2.9	-	-	0.5	
S	Frm	-	0.6	-	-	1.3	-	-	1.1	-	-	1.2	-	-	0.8	
W1>	Frm	2.1	-2.8	-	6.7	-6.4	-	6.7	-5.2	-	6.6	-5.6	-	5.1	-3.7	
<W1	Frm	-1.5	-4.7	-	-6.0	-11.3	-	-6.0	-9.2	-	-6.0	-9.8	-	-4.6	-6.6	
W2>	Frm	0.9	-1.4	-	-	-3.2	-	-	-2.6	-	-	-2.8	-	-	-1.8	
<W2	Frm	-2.8	-3.2	-	-	-8.0	-	-	-6.5	-	-	-7.0	-	-	-4.7	
CU	Frm	-	0.6	-	-	1.3	-	-	1.1	-	-	1.2	-	-	0.8	
E>	Frm	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	
EG+	Frm	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1	
<E	Frm	-0.0	-	-	-0.0	-	-	-0.0	-	-	-0.0	-	-	-0.0	-	
EG-	Frm	-	-0.0	-	-	-0.1	-	-	-0.1	-	-	-0.1	-	-	-0.1	
WPA1	Brc	2.2	-3.4	-	-	-7.9	-	-	-6.4	-	-	-6.9	-	-	-4.7	
WPD1	Brc	2.2	-2.2	-	-	-5.0	-	-	-4.1	-	-	-4.4	-	-	-2.9	
WPA2	Brc	0.9	-2.0	-	-	-4.6	-	-	-3.8	-	-	-4.0	-	-	-2.7	
WPD2	Brc	0.9	-0.8	-	-	-1.7	-	-	-1.4	-	-	-1.5	-	-	-1.0	
WPB1	Brc	2.2	-4.9	-	-	-9.2	-	-	-6.1	-	-	-7.0	-	-	-4.6	
WPC1	Brc	2.2	-2.8	-	-	-5.5	-	-	-3.9	-	-	-4.4	-	-	-2.9	
WPB2	Brc	0.9	-3.5	-	-	-5.9	-	-	-3.5	-	-	-4.1	-	-	-2.7	
WPC2	Brc	0.9	-1.4	-	-	-2.3	-	-	-1.3	-	-	-1.5	-	-	-1.0	
EB>	Brc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<EB	Brc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Type	Exterior Column				
X-Loc	95/0/0				
Grid1 - Grid2	6-M				
Base Plate W x L (in.)	8 x 18				
Base Plate Thickness (in.)	0.375				
Anchor Rod Qty/Diam. (in.)	4 - 0.750				



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Column Base Elev.		100'-0"					
Load Type	Desc.	Hx	Vy				
D	Frm	-	0.5	-	-	-	-
CG	Frm	-	0.2	-	-	-	-
L	Frm	-	1.0	-	-	-	-
ASL^	Frm	-	-0.5	-	-	-	-
^ASL	Frm	-	1.5	-	-	-	-
S	Frm	-	0.2	-	-	-	-
W1>	Frm	1.8	-1.1	-	-	-	-
<W1	Frm	-2.6	-2.1	-	-	-	-
W2>	Frm	3.3	-0.5	-	-	-	-
<W2	Frm	-1.0	-1.5	-	-	-	-
CU	Frm	-	0.2	-	-	-	-
E>	Frm	0.0	0.0	-	-	-	-
EG+	Frm	-	0.0	-	-	-	-
<E	Frm	-0.0	-0.0	-	-	-	-
EG-	Frm	-	-0.0	-	-	-	-
WPA1	Brc	-2.7	-1.3	-	-	-	-
WPD1	Brc	-2.7	-0.8	-	-	-	-
WPA2	Brc	-1.1	-0.8	-	-	-	-
WPD2	Brc	-1.1	-0.3	-	-	-	-
WPB1	Brc	-2.7	-1.3	-	-	-	-
WPC1	Brc	-2.7	-0.8	-	-	-	-
WPB2	Brc	-1.1	-0.8	-	-	-	-
WPC2	Brc	-1.1	-0.3	-	-	-	-
EB>	Brc	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-

**Frame Reactions - Factored Load Cases at Frame Cross Section: 6**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		24/0/0			44/0/0			66/0/0			84/0/0		
Grid1 - Grid2		6-A		6-C			6-E			6-J			6-L		
Ld	Description	Hx	Vy	Hx	Hz	Vy	Hx	Hz	Vy	Hx	Hz	Vy	Hx	Hz	Vy
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)
1	D + CG + L	-	3.2	-	-	7.7	-	-	6.4	-	-	6.9	-	-	4.8
2	D + CG + ASL^	-	0.9	-	-	5.0	-	-	4.3	-	-	4.0	-	-	4.3
3	D + CG + ^ASL	-	3.5	-	-	5.3	-	-	4.2	-	-	5.1	-	-	2.1
8	D + CG + S	-	1.7	-	-	3.9	-	-	3.2	-	-	3.4	-	-	2.4
17	D + CG + W1>	2.1	-1.7	-	6.7	-3.9	-	6.7	-3.1	-	6.6	-3.4	-	5.1	-2.2
18	D + CG + <W1	-1.5	-3.6	-	-6.0	-8.8	-	-6.0	-7.1	-	-6.0	-7.6	-	-4.6	-5.0
19	D + CG + W2>	0.9	-0.3	-	-	-0.6	-	-	-0.5	-	-	-0.5	-	-	-0.2
20	D + CG + <W2	-2.8	-2.2	-	-	-5.5	-	-	-4.4	-	-	-4.7	-	-	-3.1
21	D + CU + W1>	2.1	-2.1	-	6.7	-4.9	-	6.7	-3.9	-	6.6	-4.3	-	5.1	-2.8
22	D + CU + <W1	-1.5	-4.0	-	-6.0	-9.8	-	-6.0	-7.9	-	-6.0	-8.5	-	-4.6	-5.7
23	D + CU + W2>	0.9	-0.7	-	-	-1.6	-	-	-1.3	-	-	-1.4	-	-	-0.9
24	D + CU + <W2	-2.8	-2.6	-	-	-6.5	-	-	-5.2	-	-	-5.6	-	-	-3.7
25	D + CG + E> + EG+	0.0	1.1	-	0.0	2.6	-	0.0	2.1	-	0.0	2.3	-	0.0	1.6
26	D + CG + <E + EG+	-0.0	1.1	-	-0.0	2.6	-	-0.0	2.1	-	-0.0	2.3	-	-0.0	1.6
27	D + CU + E> + EG-	0.0	0.6	-	0.0	1.5	-	0.0	1.2	-	0.0	1.3	-	0.0	0.9
28	D + CU + <E + EG-	-0.0	0.6	-	-0.0	1.5	-	-0.0	1.2	-	-0.0	1.3	-	-0.0	0.9
29	D + CG + L + W1>	1.6	0.6	-	5.0	1.6	-	5.0	1.4	-	5.0	1.5	-	3.9	1.2
30	D + CG + L + <W1	-1.1	-0.8	-	-4.5	-2.0	-	-4.5	-1.6	-	-4.5	-1.7	-	-3.5	-1.0
31	D + CG + L + W2>	0.6	1.7	-	-	4.1	-	-	3.4	-	-	3.6	-	-	2.6
32	D + CG + L + <W2	-2.1	0.3	-	-	0.4	-	-	0.4	-	-	0.5	-	-	0.4
33	D + CG + S + W1>	1.6	-0.6	-	5.0	-1.3	-	5.0	-1.0	-	5.0	-1.1	-	3.9	-0.6
34	D + CG + S + <W1	-1.1	-2.0	-	-4.5	-4.9	-	-4.5	-4.0	-	-4.5	-4.3	-	-3.5	-2.8
35	D + CG + S + W2>	0.6	0.5	-	-	1.2	-	-	1.0	-	-	1.1	-	-	0.8
36	D + CG + S + <W2	-2.1	-0.9	-	-	-2.5	-	-	-2.0	-	-	-2.1	-	-	-1.3
37	D + CG + WPA1	2.2	-2.3	-	-	-5.4	-	-	-4.3	-	-	-4.6	-	-	-3.1
38	D + CU + WPA1	2.2	-2.8	-	-	-6.4	-	-	-5.2	-	-	-5.6	-	-	-3.7
39	D + CG + L + WPA1	1.7	0.1	-	-	0.5	-	-	0.5	-	-	0.5	-	-	0.5
40	D + CG + S + WPA1	1.7	-1.0	-	-	-2.4	-	-	-1.9	-	-	-2.0	-	-	-1.3
41	D + CG + WPD1	2.2	-1.1	-	-	-2.5	-	-	-2.0	-	-	-2.1	-	-	-1.4
42	D + CU + WPD1	2.2	-1.5	-	-	-3.5	-	-	-2.8	-	-	-3.0	-	-	-2.0
43	D + CG + L + WPD1	1.7	1.1	-	-	2.7	-	-	2.3	-	-	2.4	-	-	1.7
44	D + CG + S + WPD1	1.7	-0.1	-	-	-0.2	-	-	-0.1	-	-	-0.1	-	-	-0.0
45	D + CG + WPA2	0.9	-0.9	-	-	-2.1	-	-	-1.7	-	-	-1.8	-	-	-1.1



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46	D + CU + WPA2	0.9	-1.3	-	-	-3.1	-	-	-2.5	-	-	-2.7	-	-	-1.8
47	D + CG + L + WPA2	0.7	1.2	-	-	2.9	-	-	2.5	-	-	2.7	-	-	1.9
48	D + CG + S + WPA2	0.7	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1
49	D + CG + WPD2	0.9	0.3	-	-	0.8	-	-	0.7	-	-	0.7	-	-	0.6
50	D + CU + WPD2	0.9	-0.1	-	-	-0.2	-	-	-0.1	-	-	-0.2	-	-	-0.1
51	D + CG + L + WPD2	0.7	2.1	-	-	5.1	-	-	4.3	-	-	4.6	-	-	3.2
52	D + CG + S + WPD2	0.7	0.9	-	-	2.2	-	-	1.9	-	-	2.0	-	-	1.4
53	D + CG + WPB1	2.2	-3.8	-	-	-6.6	-	-	-4.0	-	-	-4.7	-	-	-3.0
54	D + CU + WPB1	2.2	-4.2	-	-	-7.6	-	-	-4.9	-	-	-5.6	-	-	-3.7
55	D + CG + L + WPB1	1.7	-1.0	-	-	-0.5	-	-	0.7	-	-	0.5	-	-	0.5
56	D + CG + S + WPB1	1.7	-2.1	-	-	-3.3	-	-	-1.7	-	-	-2.1	-	-	-1.3
57	D + CG + WPC1	2.2	-1.7	-	-	-3.0	-	-	-1.8	-	-	-2.1	-	-	-1.3
58	D + CU + WPC1	2.2	-2.2	-	-	-4.0	-	-	-2.7	-	-	-3.0	-	-	-2.0
59	D + CG + L + WPC1	1.7	0.6	-	-	2.3	-	-	2.4	-	-	2.4	-	-	1.8
60	D + CG + S + WPC1	1.7	-0.6	-	-	-0.6	-	-	-0.0	-	-	-0.2	-	-	-0.0
61	D + CG + WPB2	0.9	-2.4	-	-	-3.4	-	-	-1.4	-	-	-1.9	-	-	-1.1
62	D + CU + WPB2	0.9	-2.8	-	-	-4.4	-	-	-2.2	-	-	-2.8	-	-	-1.7
63	D + CG + L + WPB2	0.7	0.1	-	-	2.0	-	-	2.7	-	-	2.6	-	-	1.9
64	D + CG + S + WPB2	0.7	-1.1	-	-	-0.9	-	-	0.3	-	-	0.0	-	-	0.2
65	D + CG + WPC2	0.9	-0.3	-	-	0.3	-	-	0.8	-	-	0.7	-	-	0.6
66	D + CU + WPC2	0.9	-0.7	-	-	-0.7	-	-	-0.0	-	-	-0.2	-	-	-0.1
67	D + CG + L + WPC2	0.7	1.7	-	-	4.7	-	-	4.3	-	-	4.5	-	-	3.2
68	D + CG + S + WPC2	0.7	0.5	-	-	1.8	-	-	2.0	-	-	2.0	-	-	1.4
69	D + CG + EB> + EG+	-	1.1	-	-	2.6	-	-	2.1	-	-	2.3	-	-	1.6
70	D + CU + EB> + EG-	-	0.6	-	-	1.5	-	-	1.2	-	-	1.3	-	-	0.9
71	D + CG + <EB + EG+	-	1.1	-	-	2.6	-	-	2.1	-	-	2.3	-	-	1.6
72	D + CU + <EB + EG-	-	0.6	-	-	1.5	-	-	1.2	-	-	1.3	-	-	0.9

X-Loc		95/0/0					
Grid1 - Grid2		6-M					
Ld	Description	Hx	Vy				
Cs	(application factor not shown)	(k)	(k)				
1	D + CG + L	-	1.7	-	-	-	-
2	D + CG + ASL^	-	0.2	-	-	-	-
3	D + CG + ^ASL	-	2.3	-	-	-	-
8	D + CG + S	-	1.0	-	-	-	-
17	D + CG + W1>	1.8	-0.3	-	-	-	-
18	D + CG + <W1	-2.6	-1.3	-	-	-	-
19	D + CG + W2>	3.3	0.2	-	-	-	-
20	D + CG + <W2	-1.0	-0.8	-	-	-	-
21	D + CU + W1>	1.8	-0.6	-	-	-	-
22	D + CU + <W1	-2.6	-1.6	-	-	-	-
23	D + CU + W2>	3.3	-0.1	-	-	-	-
24	D + CU + <W2	-1.0	-1.1	-	-	-	-
25	D + CG + E> + EG+	0.0	0.8	-	-	-	-
26	D + CG + <E + EG+	-0.0	0.8	-	-	-	-
27	D + CU + E> + EG-	0.0	0.5	-	-	-	-
28	D + CU + <E + EG-	-0.0	0.4	-	-	-	-
29	D + CG + L + W1>	1.3	0.7	-	-	-	-
30	D + CG + L + <W1	-1.9	-0.0	-	-	-	-
31	D + CG + L + W2>	2.5	1.1	-	-	-	-
32	D + CG + L + <W2	-0.8	0.3	-	-	-	-
33	D + CG + S + W1>	1.3	0.2	-	-	-	-
34	D + CG + S + <W1	-1.9	-0.6	-	-	-	-
35	D + CG + S + W2>	2.5	0.6	-	-	-	-
36	D + CG + S + <W2	-0.8	-0.2	-	-	-	-
37	D + CG + WPA1	-2.7	-0.5	-	-	-	-
38	D + CU + WPA1	-2.7	-0.8	-	-	-	-
39	D + CG + L + WPA1	-2.0	0.5	-	-	-	-
40	D + CG + S + WPA1	-2.0	-0.0	-	-	-	-
41	D + CG + WPD1	-2.7	0.0	-	-	-	-
42	D + CU + WPD1	-2.7	-0.3	-	-	-	-
43	D + CG + L + WPD1	-2.0	0.9	-	-	-	-
44	D + CG + S + WPD1	-2.0	0.4	-	-	-	-
45	D + CG + WPA2	-1.1	0.0	-	-	-	-
46	D + CU + WPA2	-1.1	-0.3	-	-	-	-
47	D + CG + L + WPA2	-0.9	0.9	-	-	-	-



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48	D + CG + S + WPA2	-0.9	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	D + CG + WPD2	-1.1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	D + CU + WPD2	-1.1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	D + CG + L + WPD2	-0.9	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	D + CG + S + WPD2	-0.9	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	D + CG + WPB1	-2.7	-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	D + CU + WPB1	-2.7	-0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	D + CG + L + WPB1	-2.0	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	D + CG + S + WPB1	-2.0	-0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	D + CG + WPC1	-2.7	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	D + CU + WPC1	-2.7	-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	D + CG + L + WPC1	-2.0	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	D + CG + S + WPC1	-2.0	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	D + CG + WPB2	-1.1	-0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	D + CU + WPB2	-1.1	-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	D + CG + L + WPB2	-0.9	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	D + CG + S + WPB2	-0.9	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	D + CG + WPC2	-1.1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66	D + CU + WPC2	-1.1	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67	D + CG + L + WPC2	-0.9	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68	D + CG + S + WPC2	-0.9	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	D + CG + EB> + EG+	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	D + CU + EB> + EG-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	D + CG + <EB + EG+	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	D + CU + <EB + EG-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Maximum Combined Reactions Summary with Factored Loads - Framing**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	6-A	2.8	20	2.2	37	-	-	-	-	4.2	54	3.5	3	-	-	-	-
24/0/0	6-C	-	-	-	-	6.0	18	6.7	17	9.8	22	7.7	1	-	-	-	-
44/0/0	6-E	-	-	-	-	6.0	18	6.7	17	7.9	22	6.4	1	-	-	-	-
66/0/0	6-J	-	-	-	-	6.0	18	6.6	17	8.5	22	6.9	1	-	-	-	-
84/0/0	6-L	-	-	-	-	4.6	18	5.1	17	5.7	22	4.8	1	-	-	-	-
95/0/0	6-M	2.7	37	3.3	19	-	-	-	-	1.6	22	2.3	3	-	-	-	-



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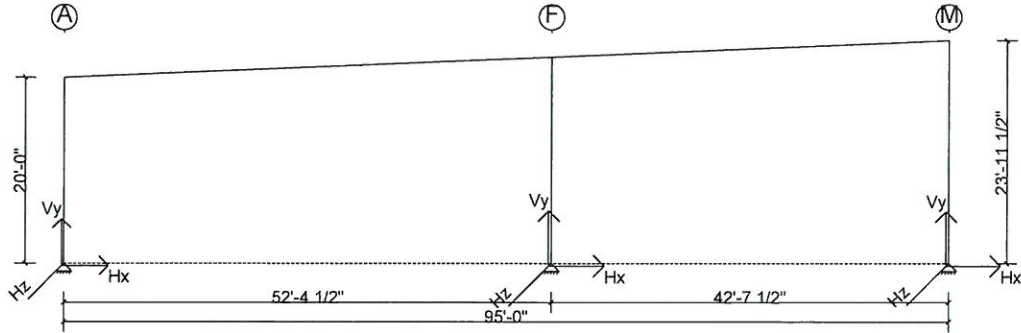
**Wall: 2, Frame at: 20/10/0**

**Design Load Combinations - Framing**

No.	Origin	Factor	Application	Description
1	System	1.000	1.0 D + 1.0 CG + 1.0 L	D + CG + L
2	System	1.000	1.0 D + 1.0 CG + 1.0 ASL^	D + CG + ASL^
3	System	1.000	1.0 D + 1.0 CG + 1.0 ^ASL	D + CG + ^ASL
4	System	1.000	1.0 D + 1.0 CG + 1.0 S	D + CG + S
7	System	1.000	1.0 D + 1.0 CG + 1.0 W1>	D + CG + W1>
8	System	1.000	1.0 D + 1.0 CG + 1.0 <W1	D + CG + <W1
9	System	1.000	1.0 D + 1.0 CG + 1.0 W2>	D + CG + W2>
10	System	1.000	1.0 D + 1.0 CG + 1.0 <W2	D + CG + <W2
11	System	1.000	0.600 D + 0.600 CU + 1.0 W1>	D + CU + W1>
12	System	1.000	0.600 D + 0.600 CU + 1.0 <W1	D + CU + <W1
13	System	1.000	0.600 D + 0.600 CU + 1.0 W2>	D + CU + W2>
14	System	1.000	0.600 D + 0.600 CU + 1.0 <W2	D + CU + <W2
15	System	1.000	1.0 D + 1.0 CG + 0.700 E> + 0.700 EG+	D + CG + E> + EG+
16	System	1.000	1.0 D + 1.0 CG + 0.700 <E + 0.700 EG+	D + CG + <E + EG+
17	System	1.000	0.600 D + 0.600 CU + 0.700 E> + 0.700 EG-	D + CU + E> + EG-
18	System	1.000	0.600 D + 0.600 CU + 0.700 <E + 0.700 EG-	D + CU + <E + EG-
19	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W1>	D + CG + L + W1>
20	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W1	D + CG + L + <W1
21	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W2>	D + CG + L + W2>
22	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W2	D + CG + L + <W2
23	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W1>	D + CG + S + W1>
24	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W1	D + CG + S + <W1
25	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W2>	D + CG + S + W2>
26	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W2	D + CG + S + <W2
27	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA1	D + CG + WPA1
28	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA1	D + CU + WPA1
29	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA1	D + CG + L + WPA1
30	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA1	D + CG + S + WPA1
31	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD1	D + CG + WPD1
32	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD1	D + CU + WPD1
33	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD1	D + CG + L + WPD1
34	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD1	D + CG + S + WPD1
35	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA2	D + CG + WPA2
36	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA2	D + CU + WPA2
37	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA2	D + CG + L + WPA2
38	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA2	D + CG + S + WPA2
39	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD2	D + CG + WPD2
40	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD2	D + CU + WPD2
41	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD2	D + CG + L + WPD2
42	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD2	D + CG + S + WPD2
43	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB1	D + CG + WPB1
44	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB1	D + CU + WPB1
45	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB1	D + CG + L + WPB1
46	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB1	D + CG + S + WPB1
47	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC1	D + CG + WPC1
48	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC1	D + CU + WPC1
49	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC1	D + CG + L + WPC1
50	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC1	D + CG + S + WPC1
51	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB2	D + CG + WPB2
52	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB2	D + CU + WPB2
53	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB2	D + CG + L + WPB2
54	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB2	D + CG + S + WPB2
55	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC2	D + CG + WPC2
56	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC2	D + CU + WPC2
57	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC2	D + CG + L + WPC2
58	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC2	D + CG + S + WPC2
59	System Derived	1.000	1.0 D + 1.0 CG + 0.700 EB> + 0.700 EG+	D + CG + EB> + EG+
60	System Derived	1.000	0.600 D + 0.600 CU + 0.700 EB> + 0.700 EG-	D + CU + EB> + EG-
61	System Derived	1.000	1.0 D + 1.0 CG + 0.700 <EB + 0.700 EG+	D + CG + <EB + EG+
62	System Derived	1.000	0.600 D + 0.600 CU + 0.700 <EB + 0.700 EG-	D + CU + <EB + EG-

Wall: 2, Frame at: 20/10/0  
 Frame ID:CB1 interior fr.

Frame Type:Continuous Beam



Values shown are resisting forces of the foundation.

Reactions - Unfactored Load Type at Frame Cross Section: 5

Type		Exterior Column		Interior Column		Exterior Column			
X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		5-A		5-F		5-M			
Base Plate W x L (in.)		8 x 13		8 x 10		8 x 13			
Base Plate Thickness (in.)		0.375		0.375		0.375			
Anchor Rod Qty./Diam. (in.)		4 - 0.750		4 - 0.750		4 - 0.750			
Column Base Elev.		100'-0"		100'-0"		100'-0"			
Load Type	Desc.	Hx	Vy	Hx	Vy	Hx	Vy		
D	Frm	0.4	2.8	-	3.9	-0.4	1.7	-	-
CG	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
L	Frm	1.4	5.9	-	11.8	-1.4	4.7	-	-
ASL^	Frm	1.6	0.2	-	4.4	-1.6	5.5	-	-
^ASL	Frm	-0.1	5.7	-	7.4	0.1	-0.7	-	-
S	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
W1>	Frm	8.0	-7.1	-	-23.3	4.8	-7.9	-	-
<W1	Frm	-10.3	-18.8	-	-31.2	0.2	-13.5	-	-
W2>	Frm	7.2	-0.9	-	-11.6	5.9	-3.1	-	-
<W2	Frm	-11.1	-12.6	-	-19.4	1.2	-8.7	-	-
CU	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
E>	Frm	1.0	0.4	-	-0.4	0.1	0.0	-	-
EG+	Frm	0.0	0.2	-	0.3	-0.0	0.1	-	-
<E	Frm	-1.0	-0.4	-	0.4	-0.1	-0.0	-	-
EG-	Frm	-0.0	-0.2	-	-0.3	0.0	-0.1	-	-
WPA1	Brc	0.9	-14.6	-	-28.8	-0.8	-11.6	-	-
WPD1	Brc	1.6	-9.5	-	-17.9	-2.1	-7.4	-	-
WPA2	Brc	0.1	-8.4	-	-17.0	0.2	-6.8	-	-
WPD2	Brc	0.8	-3.3	-	-6.1	-1.1	-2.6	-	-
WPB1	Brc	1.1	-18.2	-	-29.7	-0.7	-11.5	-	-
WPC1	Brc	1.6	-11.0	-	-18.3	-2.1	-7.3	-	-
WPB2	Brc	0.3	-12.1	-	-17.9	0.3	-6.7	-	-
WPC2	Brc	0.8	-4.9	-	-6.5	-1.1	-2.5	-	-
EB>	Brc	-	-	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-	-	-

Frame Reactions - Factored Load Cases at Frame Cross Section: 5

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		5-A		5-F		5-M			
Ld	Description	Hx	Vy	Hx	Vy	Hx	Vy		
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)		



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1	D + CG + L	2.4	11.2	-	20.6	-2.4	8.3	-	-
2	D + CG + ASL^	2.5	5.5	-	13.2	-2.5	9.1	-	-
3	D + CG + ^ASL	0.9	11.0	-	16.2	-0.9	2.9	-	-
4	D + CG + S	1.6	7.7	-	13.7	-1.6	5.6	-	-
7	D + CG + W1>	9.0	-1.8	-	-14.6	3.9	-4.3	-	-
8	D + CG + <W1	-9.3	-13.5	-	-22.4	-0.8	-9.9	-	-
9	D + CG + W2>	8.2	4.3	-	-2.8	4.9	0.5	-	-
10	D + CG + <W2	-10.1	-7.4	-	-10.7	0.2	-5.0	-	-
11	D + CU + W1>	8.6	-3.9	-	-18.1	4.3	-5.8	-	-
12	D + CU + <W1	-9.7	-15.6	-	-26.0	-0.4	-11.3	-	-
13	D + CU + W2>	7.8	2.2	-	-6.3	5.3	-0.9	-	-
14	D + CU + <W2	-10.5	-9.5	-	-14.2	0.6	-6.5	-	-
15	D + CG + E> + EG+	1.7	5.7	-	8.7	-1.0	3.7	-	-
16	D + CG + <E + EG+	0.3	5.1	-	9.3	-1.1	3.7	-	-
17	D + CU + E> + EG-	1.3	3.3	-	4.8	-0.5	2.1	-	-
18	D + CU + <E + EG-	-0.1	2.7	-	5.3	-0.6	2.1	-	-
19	D + CG + L + W1>	8.1	4.4	-	0.1	1.6	1.2	-	-
20	D + CG + L + <W1	-5.7	-4.4	-	-5.8	-1.9	-3.0	-	-
21	D + CG + L + W2>	7.5	9.0	-	9.0	2.3	4.8	-	-
22	D + CG + L + <W2	-6.3	0.2	-	3.0	-1.1	0.7	-	-
23	D + CG + S + W1>	7.4	1.8	-	-5.0	2.2	-0.9	-	-
24	D + CG + S + <W1	-6.3	-7.0	-	-11.0	-1.3	-5.0	-	-
25	D + CG + S + W2>	6.8	6.4	-	3.8	3.0	2.8	-	-
26	D + CG + S + <W2	-6.9	-2.4	-	-2.1	-0.5	-1.4	-	-
27	D + CG + WPA1	1.9	-9.3	-	-20.0	-1.8	-8.0	-	-
28	D + CU + WPA1	1.5	-11.4	-	-23.5	-1.4	-9.5	-	-
29	D + CG + L + WPA1	2.8	-1.2	-	-4.0	-2.6	-1.6	-	-
30	D + CG + S + WPA1	2.1	-3.8	-	-9.1	-2.0	-3.6	-	-
31	D + CG + WPD1	2.6	-4.3	-	-9.1	-3.1	-3.7	-	-
32	D + CU + WPD1	2.2	-6.4	-	-12.6	-2.7	-5.2	-	-
33	D + CG + L + WPD1	3.2	2.6	-	4.2	-3.6	1.6	-	-
34	D + CG + S + WPD1	2.6	-0.0	-	-1.0	-3.0	-0.4	-	-
35	D + CG + WPA2	1.1	-3.2	-	-8.2	-0.8	-3.2	-	-
36	D + CU + WPA2	0.7	-5.3	-	-11.7	-0.4	-4.6	-	-
37	D + CG + L + WPA2	2.1	3.4	-	4.9	-1.9	2.1	-	-
38	D + CG + S + WPA2	1.5	0.8	-	-0.3	-1.3	-0.0	-	-
39	D + CG + WPD2	1.8	1.9	-	2.7	-2.1	1.1	-	-
40	D + CU + WPD2	1.4	-0.2	-	-0.8	-1.7	-0.4	-	-
41	D + CG + L + WPD2	2.6	7.2	-	13.0	-2.9	5.2	-	-
42	D + CG + S + WPD2	2.0	4.6	-	7.9	-2.2	3.2	-	-
43	D + CG + WPB1	2.1	-13.0	-	-20.9	-1.7	-7.9	-	-
44	D + CU + WPB1	1.7	-15.1	-	-24.4	-1.3	-9.4	-	-
45	D + CG + L + WPB1	2.9	-4.0	-	-4.7	-2.6	-1.5	-	-
46	D + CG + S + WPB1	2.2	-6.6	-	-9.8	-2.0	-3.6	-	-
47	D + CG + WPC1	2.6	-5.8	-	-9.5	-3.1	-3.7	-	-
48	D + CU + WPC1	2.2	-7.9	-	-13.0	-2.7	-5.2	-	-
49	D + CG + L + WPC1	3.3	1.4	-	3.9	-3.6	1.7	-	-
50	D + CG + S + WPC1	2.7	-1.2	-	-1.2	-3.0	-0.4	-	-
51	D + CG + WPB2	1.3	-6.8	-	-9.1	-0.7	-3.1	-	-
52	D + CU + WPB2	0.9	-8.9	-	-12.6	-0.3	-4.5	-	-
53	D + CG + L + WPB2	2.3	0.7	-	4.2	-1.9	2.1	-	-
54	D + CG + S + WPB2	1.6	-1.9	-	-1.0	-1.2	0.1	-	-
55	D + CG + WPC2	1.8	0.4	-	2.3	-2.1	1.1	-	-
56	D + CU + WPC2	1.4	-1.7	-	-1.2	-1.7	-0.3	-	-
57	D + CG + L + WPC2	2.7	6.0	-	12.7	-2.9	5.3	-	-
58	D + CG + S + WPC2	2.1	3.4	-	7.6	-2.2	3.2	-	-
59	D + CG + EB> + EG+	1.0	5.4	-	9.0	-1.0	3.7	-	-
60	D + CU + EB> + EG-	0.6	3.0	-	5.1	-0.6	2.1	-	-
61	D + CG + <EB + EG+	1.0	5.4	-	9.0	-1.0	3.7	-	-
62	D + CU + <EB + EG-	0.6	3.0	-	5.1	-0.6	2.1	-	-

### Maximum Combined Reactions Summary with Factored Loads - Framing

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hzr left (-Hx) (k)	Load Case	Hzr Right (Hx) (k)	Load Case	Hzr In (-Hz) (k)	Load Case	Hzr Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	5-A	10.5	14	9.0	7	-	-	-	-	15.6	12	11.2	1	-	-	-	-



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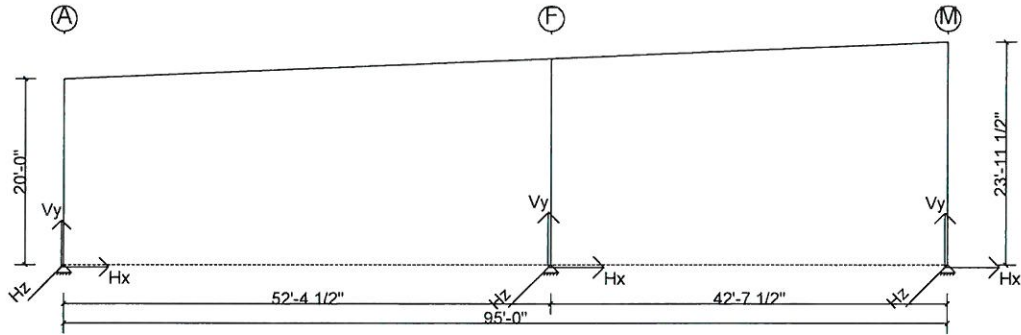
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52/4/8	5-F	-	-	-	-	-	-	-	-	26.0	12	20.6	1	-	-	-	-
95/0/0	5-M	3.6	33	5.3	13	-	-	-	-	11.3	12	9.1	2	-	-	-	-

---

**Wall: 2, Frame at: 40/4/0**  
Frame ID:CB1 interior fr.

Frame Type:Continuous Beam



Values shown are resisting forces of the foundation.

**Reactions - Unfactored Load Type at Frame Cross Section: 4**

Type		Exterior Column		Interior Column		Exterior Column			
X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		4-A		4-F		4-M			
Base Plate W x L (in.)		8 x 13		8 x 10		8 x 13			
Base Plate Thickness (in.)		0.375		0.375		0.375			
Anchor Rod Qty/Diam. (in.)		4 - 0.750		4 - 0.750		4 - 0.750			
Column Base Elev.		100'-0"		100'-0"		100'-0"			
Load Type	Desc.	Hx	Vy	Hx	Vy	Hx	Vy		
D	Frm	0.3	2.5	-	3.9	-0.3	1.5	-	-
CG	Frm	0.5	2.4	-	5.0	-0.5	1.8	-	-
L	Frm	1.1	5.7	-	12.1	-1.1	4.4	-	-
ASL^	Frm	1.2	-0.1	-	5.1	-1.2	5.0	-	-
^ASL	Frm	-0.1	5.8	-	7.0	0.1	-0.6	-	-
S	Frm	0.5	2.4	-	5.0	-0.5	1.8	-	-
W1>	Frm	7.3	-6.3	-	-21.3	3.5	-6.8	-	-
<W1	Frm	-7.9	-15.5	-	-27.8	-0.6	-10.9	-	-
W2>	Frm	6.2	-0.3	-	-9.3	4.8	-2.2	-	-
<W2	Frm	-8.9	-9.6	-	-15.8	0.6	-6.4	-	-
CU	Frm	0.5	2.4	-	5.0	-0.5	1.8	-	-
E>	Frm	1.0	0.4	-	-0.4	0.1	0.0	-	-
EG+	Frm	0.0	0.2	-	0.3	-0.0	0.1	-	-
<E	Frm	-1.0	-0.4	-	0.4	-0.1	-0.0	-	-
EG-	Frm	-0.0	-0.2	-	-0.3	0.0	-0.1	-	-
WPA1	Brc	1.6	-13.4	-	-28.0	-1.6	-10.5	-	-
WPD1	Brc	1.9	-9.7	-	-19.6	-2.3	-7.5	-	-
WPA2	Brc	0.6	-7.5	-	-16.0	-0.3	-5.9	-	-
WPD2	Brc	0.8	-3.8	-	-7.6	-1.1	-2.9	-	-
WPB1	Brc	1.8	-16.7	-	-28.8	-1.6	-10.4	-	-
WPC1	Brc	2.0	-11.5	-	-20.0	-2.3	-7.4	-	-
WPB2	Brc	0.7	-10.8	-	-16.8	-0.3	-5.8	-	-
WPC2	Brc	0.9	-5.6	-	-8.0	-1.1	-2.9	-	-
EB>	Brc	-	-	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-	-	-

**Frame Reactions - Factored Load Cases at Frame Cross Section: 4**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		4-A		4-F		4-M			
Ld	Description	Hx	Vy	Hx	Vy	Hx	Vy		
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)		



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1	D + CG + L	1.9	10.5	-	21.0	-1.9	7.8	-	-
2	D + CG + ASL^	2.0	4.7	-	14.1	-2.0	8.3	-	-
3	D + CG + ^ASL	0.6	10.7	-	16.0	-0.6	2.8	-	-
4	D + CG + S	1.2	7.2	-	14.0	-1.2	5.2	-	-
7	D + CG + W1>	8.0	-1.4	-	-12.3	2.7	-3.4	-	-
8	D + CG + <W1	-7.1	-10.7	-	-18.9	-1.4	-7.6	-	-
9	D + CG + W2>	7.0	4.5	-	-0.3	4.0	1.1	-	-
10	D + CG + <W2	-8.2	-4.8	-	-6.9	-0.1	-3.0	-	-
11	D + CU + W1>	7.7	-3.3	-	-15.9	3.0	-4.8	-	-
12	D + CU + <W1	-7.4	-12.6	-	-22.5	-1.1	-8.9	-	-
13	D + CU + W2>	6.7	2.6	-	-3.9	4.3	-0.2	-	-
14	D + CU + <W2	-8.5	-6.7	-	-10.4	0.2	-4.4	-	-
15	D + CG + E> + EG+	1.5	5.3	-	8.9	-0.7	3.5	-	-
16	D + CG + <E + EG+	0.1	4.7	-	9.5	-0.8	3.4	-	-
17	D + CU + E> + EG-	1.1	3.1	-	4.9	-0.4	2.0	-	-
18	D + CU + <E + EG-	-0.3	2.5	-	5.4	-0.5	1.9	-	-
19	D + CG + L + W1>	7.0	4.4	-	2.0	1.0	1.6	-	-
20	D + CG + L + <W1	-4.3	-2.5	-	-2.9	-2.1	-1.5	-	-
21	D + CG + L + W2>	6.2	8.9	-	11.1	2.0	5.0	-	-
22	D + CG + L + <W2	-5.1	1.9	-	6.2	-1.1	1.9	-	-
23	D + CG + S + W1>	6.6	1.9	-	-3.2	1.5	-0.3	-	-
24	D + CG + S + <W1	-4.8	-5.0	-	-8.1	-1.6	-3.5	-	-
25	D + CG + S + W2>	5.8	6.4	-	5.8	2.5	3.1	-	-
26	D + CG + S + <W2	-5.6	-0.6	-	0.9	-0.6	-0.0	-	-
27	D + CG + WPA1	2.4	-8.5	-	-19.0	-2.3	-7.1	-	-
28	D + CU + WPA1	2.1	-10.4	-	-22.6	-2.0	-8.4	-	-
29	D + CG + L + WPA1	2.8	-0.9	-	-3.0	-2.8	-1.2	-	-
30	D + CG + S + WPA1	2.3	-3.4	-	-8.3	-2.3	-3.1	-	-
31	D + CG + WPD1	2.7	-4.9	-	-10.7	-3.1	-4.1	-	-
32	D + CU + WPD1	2.4	-6.8	-	-14.2	-2.8	-5.5	-	-
33	D + CG + L + WPD1	3.0	1.8	-	3.3	-3.3	1.1	-	-
34	D + CG + S + WPD1	2.5	-0.7	-	-2.0	-2.9	-0.9	-	-
35	D + CG + WPA2	1.3	-2.6	-	-7.0	-1.1	-2.5	-	-
36	D + CU + WPA2	1.0	-4.5	-	-10.6	-0.8	-3.9	-	-
37	D + CG + L + WPA2	2.0	3.5	-	6.0	-1.8	2.2	-	-
38	D + CG + S + WPA2	1.5	1.0	-	0.7	-1.3	0.3	-	-
39	D + CG + WPD2	1.6	1.0	-	1.4	-1.8	0.5	-	-
40	D + CU + WPD2	1.3	-0.9	-	-2.2	-1.5	-0.9	-	-
41	D + CG + L + WPD2	2.2	6.2	-	12.3	-2.4	4.5	-	-
42	D + CG + S + WPD2	1.7	3.8	-	7.0	-1.9	2.6	-	-
43	D + CG + WPB1	2.5	-11.8	-	-19.8	-2.3	-7.0	-	-
44	D + CU + WPB1	2.2	-13.8	-	-23.4	-2.0	-8.4	-	-
45	D + CG + L + WPB1	2.9	-3.4	-	-3.6	-2.7	-1.1	-	-
46	D + CG + S + WPB1	2.4	-5.9	-	-8.9	-2.3	-3.1	-	-
47	D + CG + WPC1	2.8	-6.6	-	-11.1	-3.1	-4.1	-	-
48	D + CU + WPC1	2.4	-8.6	-	-14.7	-2.8	-5.4	-	-
49	D + CG + L + WPC1	3.1	0.5	-	3.0	-3.3	1.1	-	-
50	D + CG + S + WPC1	2.6	-2.0	-	-2.3	-2.8	-0.8	-	-
51	D + CG + WPB2	1.5	-5.9	-	-7.8	-1.0	-2.5	-	-
52	D + CU + WPB2	1.2	-7.9	-	-11.4	-0.7	-3.8	-	-
53	D + CG + L + WPB2	2.1	1.0	-	5.4	-1.8	2.3	-	-
54	D + CG + S + WPB2	1.6	-1.5	-	0.2	-1.3	0.4	-	-
55	D + CG + WPC2	1.7	-0.7	-	0.9	-1.8	0.5	-	-
56	D + CU + WPC2	1.4	-2.7	-	-2.6	-1.5	-0.9	-	-
57	D + CG + L + WPC2	2.3	4.9	-	12.0	-2.4	4.5	-	-
58	D + CG + S + WPC2	1.8	2.4	-	6.7	-1.9	2.6	-	-
59	D + CG + EB> + EG+	0.8	5.0	-	9.2	-0.8	3.5	-	-
60	D + CU + EB> + EG-	0.4	2.8	-	5.2	-0.4	1.9	-	-
61	D + CG + <EB + EG+	0.8	5.0	-	9.2	-0.8	3.5	-	-
62	D + CU + <EB + EG-	0.4	2.8	-	5.2	-0.4	1.9	-	-

**Maximum Combined Reactions Summary with Factored Loads - Framing**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	4-A	8.5	14	8.0	7	-	-	-	-	13.8	44	10.7	3	-	-	-	-



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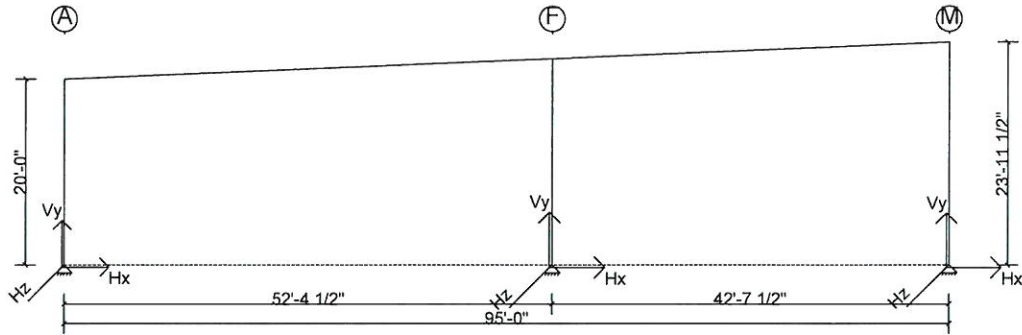
52/4/8	4-F	-	-	-	-	-	-	-	-	23.4	44	21.0	1	-	-	-	-
95/0/0	4-M	3.3	33	4.3	13	-	-	-	-	8.9	12	8.3	2	-	-	-	-

**Bracing**

X-Loc	Grid	Description
0/0/0	A-4	Portal Frame is next to column. See portal frame section for reactions
95/0/0	M-4	Portal Frame is next to column. See portal frame section for reactions

Wall: 2, Frame at: 59/8/0  
Frame ID:CB1 interior fr.

Frame Type:Continuous Beam



Values shown are resisting forces of the foundation.

Reactions - Unfactored Load Type at Frame Cross Section: 3

Type		Exterior Column		Interior Column		Exterior Column			
X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		3-A		3-F		3-M			
Base Plate W x L (in.)		8 x 13		8 x 10		8 x 13			
Base Plate Thickness (in.)		0.375		0.375		0.375			
Anchor Rod Qty/Diam. (in.)		4 - 0.750		4 - 0.750		4 - 0.750			
Column Base Elev.		100'-0"		100'-0"		100'-0"			
Load Type	Desc.	Hx	Vy	Hx	Vy	Hx	Vy		
D	Frm	0.4	2.8	-	3.8	-0.4	1.7	-	-
CG	Frm	0.7	2.6	-	4.9	-0.7	2.1	-	-
L	Frm	1.6	6.2	-	11.8	-1.6	5.0	-	-
ASL^	Frm	1.7	0.3	-	4.4	-1.7	5.6	-	-
^ASL	Frm	-0.1	6.0	-	7.4	0.1	-0.7	-	-
S	Frm	0.7	2.6	-	4.9	-0.7	2.1	-	-
W1>	Frm	6.8	-7.0	-	-21.1	4.4	-7.7	-	-
<W1	Frm	-9.2	-17.0	-	-27.3	0.4	-12.3	-	-
W2>	Frm	6.1	-0.6	-	-9.2	5.3	-2.6	-	-
<W2	Frm	-9.9	-10.5	-	-15.4	1.3	-7.2	-	-
CU	Frm	0.7	2.6	-	4.9	-0.7	2.1	-	-
E>	Frm	1.0	0.4	-	-0.4	0.1	0.0	-	-
EG+	Frm	0.0	0.2	-	0.3	-0.0	0.1	-	-
<E	Frm	-1.0	-0.4	-	0.4	-0.1	-0.0	-	-
EG-	Frm	-0.0	-0.2	-	-0.3	0.0	-0.1	-	-
WPA1	Brc	1.3	-10.6	-	-19.3	-1.8	-8.3	-	-
WPD1	Brc	0.7	-14.6	-	-27.7	-0.7	-11.7	-	-
WPA2	Brc	0.6	-4.1	-	-7.5	-0.9	-3.2	-	-
WPD2	Brc	0.0	-8.2	-	-15.8	0.2	-6.6	-	-
WPB1	Brc	1.4	-12.4	-	-19.8	-1.8	-8.3	-	-
WPC1	Brc	0.9	-18.1	-	-28.5	-0.6	-11.7	-	-
WPB2	Brc	0.7	-6.0	-	-7.9	-0.9	-3.2	-	-
WPC2	Brc	0.2	-11.7	-	-16.6	0.3	-6.6	-	-
EB>	Brc	-	-	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-	-	-

Frame Reactions - Factored Load Cases at Frame Cross Section: 3

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		3-A		3-F		3-M			
Ld	Description	Hx	Vy	Hx	Vy	Hx	Vy		
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)		



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1	D + CG + L	2.7	11.7	-	20.6	-2.7	8.8	-	-
2	D + CG + ASL^	2.8	5.7	-	13.2	-2.8	9.4	-	-
3	D + CG + ^ASL	1.0	11.4	-	16.2	-1.0	3.1	-	-
4	D + CG + S	1.8	8.0	-	13.7	-1.8	5.9	-	-
7	D + CG + W1>	7.9	-1.6	-	-12.3	3.3	-3.9	-	-
8	D + CG + <W1	-8.1	-11.5	-	-18.5	-0.7	-8.5	-	-
9	D + CG + W2>	7.2	4.9	-	-0.4	4.2	1.2	-	-
10	D + CG + <W2	-8.8	-5.1	-	-6.6	0.2	-3.4	-	-
11	D + CU + W1>	7.5	-3.8	-	-15.8	3.7	-5.4	-	-
12	D + CU + <W1	-8.5	-13.7	-	-22.0	-0.3	-10.0	-	-
13	D + CU + W2>	6.8	2.7	-	-3.9	4.6	-0.3	-	-
14	D + CU + <W2	-9.3	-7.3	-	-10.1	0.6	-4.9	-	-
15	D + CG + E> + EG+	1.9	5.9	-	8.7	-1.1	3.9	-	-
16	D + CG + <E + EG+	0.4	5.2	-	9.3	-1.2	3.9	-	-
17	D + CU + E> + EG-	1.4	3.5	-	4.7	-0.6	2.2	-	-
18	D + CU + <E + EG-	-0.1	2.8	-	5.3	-0.7	2.2	-	-
19	D + CG + L + W1>	7.4	4.8	-	1.8	1.0	1.8	-	-
20	D + CG + L + <W1	-4.6	-2.6	-	-2.8	-2.0	-1.7	-	-
21	D + CG + L + W2>	6.9	9.7	-	10.7	1.7	5.6	-	-
22	D + CG + L + <W2	-5.1	2.2	-	6.1	-1.3	2.1	-	-
23	D + CG + S + W1>	6.7	2.1	-	-3.3	1.7	-0.4	-	-
24	D + CG + S + <W1	-5.3	-5.3	-	-8.0	-1.3	-3.9	-	-
25	D + CG + S + W2>	6.2	7.0	-	5.6	2.4	3.4	-	-
26	D + CG + S + <W2	-5.8	-0.5	-	0.9	-0.6	-0.1	-	-
27	D + CG + WPA1	2.5	-5.1	-	-10.6	-2.9	-4.5	-	-
28	D + CU + WPA1	2.0	-7.3	-	-14.1	-2.4	-6.0	-	-
29	D + CG + L + WPA1	3.3	2.2	-	3.1	-3.6	1.3	-	-
30	D + CG + S + WPA1	2.6	-0.6	-	-2.0	-2.9	-0.9	-	-
31	D + CG + WPD1	1.9	-9.2	-	-18.9	-1.8	-7.9	-	-
32	D + CU + WPD1	1.4	-11.4	-	-22.4	-1.3	-9.4	-	-
33	D + CG + L + WPD1	2.9	-0.9	-	-3.1	-2.8	-1.3	-	-
34	D + CG + S + WPD1	2.2	-3.6	-	-8.3	-2.1	-3.4	-	-
35	D + CG + WPA2	1.7	1.3	-	1.3	-2.0	0.6	-	-
36	D + CU + WPA2	1.3	-0.9	-	-2.2	-1.5	-0.9	-	-
37	D + CG + L + WPA2	2.8	7.0	-	12.0	-3.0	5.1	-	-
38	D + CG + S + WPA2	2.1	4.3	-	6.9	-2.3	2.9	-	-
39	D + CG + WPD2	1.1	-2.8	-	-7.0	-0.9	-2.8	-	-
40	D + CU + WPD2	0.7	-4.9	-	-10.5	-0.4	-4.4	-	-
41	D + CG + L + WPD2	2.3	4.0	-	5.8	-2.1	2.6	-	-
42	D + CG + S + WPD2	1.6	1.2	-	0.6	-1.4	0.4	-	-
43	D + CG + WPB1	2.5	-7.0	-	-11.0	-2.9	-4.5	-	-
44	D + CU + WPB1	2.1	-9.2	-	-14.5	-2.4	-6.0	-	-
45	D + CG + L + WPB1	3.4	0.8	-	2.8	-3.6	1.3	-	-
46	D + CG + S + WPB1	2.7	-1.9	-	-2.4	-2.9	-0.8	-	-
47	D + CG + WPC1	2.0	-12.7	-	-19.7	-1.7	-7.9	-	-
48	D + CU + WPC1	1.6	-14.9	-	-23.2	-1.3	-9.4	-	-
49	D + CG + L + WPC1	3.0	-3.5	-	-3.7	-2.8	-1.2	-	-
50	D + CG + S + WPC1	2.3	-6.2	-	-8.9	-2.1	-3.4	-	-
51	D + CG + WPB2	1.8	-0.5	-	0.9	-2.0	0.6	-	-
52	D + CU + WPB2	1.4	-2.7	-	-2.6	-1.5	-0.9	-	-
53	D + CG + L + WPB2	2.8	5.6	-	11.7	-2.9	5.1	-	-
54	D + CG + S + WPB2	2.1	2.9	-	6.5	-2.2	3.0	-	-
55	D + CG + WPC2	1.3	-6.3	-	-7.9	-0.8	-2.8	-	-
56	D + CU + WPC2	0.8	-8.4	-	-11.4	-0.4	-4.3	-	-
57	D + CG + L + WPC2	2.4	1.3	-	5.2	-2.1	2.6	-	-
58	D + CG + S + WPC2	1.7	-1.4	-	-0.0	-1.4	0.4	-	-
59	D + CG + EB> + EG+	1.1	5.6	-	9.0	-1.1	3.9	-	-
60	D + CU + EB> + EG-	0.6	3.1	-	5.0	-0.6	2.2	-	-
61	D + CG + <EB + EG+	1.1	5.6	-	9.0	-1.1	3.9	-	-
62	D + CU + <EB + EG-	0.6	3.1	-	5.0	-0.6	2.2	-	-

### Maximum Combined Reactions Summary with Factored Loads - Framing

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	3-A	9.3	14	7.9	7	-	-	-	-	14.9	48	11.7	1	-	-	-	-



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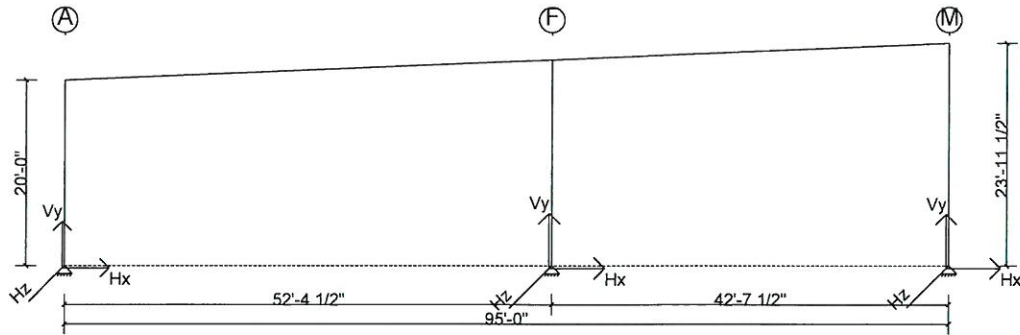
52/4/8	3-F	-	-	-	-	-	-	-	-	23.2	48	20.6	1	-	-	-	-
95/0/0	3-M	3.6	29	4.6	13	-	-	-	-	10.0	12	9.4	2	-	-	-	-

**Bracing**

X-Loc	Grid	Description
0/0/0	A-3	Portal Frame is next to column. See portal frame section for reactions
95/0/0	M-3	Portal Frame is next to column. See portal frame section for reactions

**Wall: 2, Frame at: 80/9/0**  
Frame ID:CB1 interior fr.

Frame Type:Continuous Beam



Values shown are resisting forces of the foundation.

**Reactions - Unfactored Load Type at Frame Cross Section: 2**

Type		Exterior Column		Interior Column		Exterior Column			
X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		2-A		2-F		2-M			
Base Plate W x L (in.)		8 x 13		8 x 10		8 x 13			
Base Plate Thickness (in.)		0.375		0.375		0.375			
Anchor Rod Qty/Diam. (in.)		4 - 0.750		4 - 0.750		4 - 0.750			
Column Base Elev.		100'-0"		100'-0"		100'-0"			
Load Type	Desc.	Hx	Vy	Hx	Vy	Hx	Vy		
D	Frm	0.4	2.8	-	3.9	-0.4	1.7	-	-
CG	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
L	Frm	1.5	6.0	-	11.6	-1.5	4.8	-	-
ASL^	Frm	1.6	0.3	-	4.3	-1.6	5.5	-	-
^ASL	Frm	-0.1	5.7	-	7.4	0.1	-0.7	-	-
S	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
W1>	Frm	7.6	-7.4	-	-23.2	5.1	-8.1	-	-
<W1	Frm	-11.2	-19.4	-	-31.0	0.4	-13.8	-	-
W2>	Frm	7.1	-1.1	-	-11.6	6.0	-3.2	-	-
<W2	Frm	-11.8	-13.1	-	-19.5	1.4	-8.9	-	-
CU	Frm	0.6	2.5	-	4.9	-0.6	2.0	-	-
E>	Frm	1.0	0.4	-	-0.4	0.1	0.0	-	-
EG+	Frm	0.0	0.2	-	0.3	-0.0	0.1	-	-
<E	Frm	-1.0	-0.4	-	0.4	-0.1	-0.0	-	-
EG-	Frm	-0.0	-0.2	-	-0.3	0.0	-0.1	-	-
WPA1	Brc	1.2	-9.7	-	-17.6	-2.0	-7.5	-	-
WPD1	Brc	0.3	-14.9	-	-28.3	-0.6	-11.8	-	-
WPA2	Brc	0.6	-3.4	-	-6.0	-1.0	-2.6	-	-
WPD2	Brc	-0.3	-8.6	-	-16.7	0.3	-6.9	-	-
WPB1	Brc	1.2	-11.3	-	-18.0	-2.0	-7.4	-	-
WPC1	Brc	0.4	-18.6	-	-29.2	-0.6	-11.7	-	-
WPB2	Brc	0.7	-5.0	-	-6.4	-1.0	-2.5	-	-
WPC2	Brc	-0.1	-12.3	-	-17.6	0.4	-6.8	-	-
EB>	Brc	-	-	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-	-	-

**Frame Reactions - Factored Load Cases at Frame Cross Section: 2**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		52/4/8		95/0/0			
Grid1 - Grid2		2-A		2-F		2-M			
Ld	Description	Hx	Vy	Hx	Vy	Hx	Vy		
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)		



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1	D + CG + L	2.6	11.3	-	20.3	-2.6	8.4	-	-
2	D + CG + ASL^	2.7	5.6	-	13.0	-2.7	9.2	-	-
3	D + CG + ^ASL	0.9	11.0	-	16.1	-0.9	2.9	-	-
4	D + CG + S	1.7	7.8	-	13.6	-1.7	5.7	-	-
7	D + CG + W1>	8.7	-2.1	-	-14.5	4.0	-4.4	-	-
8	D + CG + <W1	-10.2	-14.1	-	-22.3	-0.6	-10.1	-	-
9	D + CG + W2>	8.1	4.2	-	-2.9	4.9	0.4	-	-
10	D + CG + <W2	-10.7	-7.8	-	-10.7	0.3	-5.2	-	-
11	D + CU + W1>	8.3	-4.2	-	-17.9	4.4	-5.9	-	-
12	D + CU + <W1	-10.6	-16.2	-	-25.8	-0.2	-11.6	-	-
13	D + CU + W2>	7.7	2.1	-	-6.4	5.4	-1.0	-	-
14	D + CU + <W2	-11.1	-9.9	-	-14.2	0.7	-6.7	-	-
15	D + CG + E> + EG+	1.8	5.7	-	8.6	-1.0	3.8	-	-
16	D + CG + <E + EG+	0.4	5.1	-	9.2	-1.1	3.8	-	-
17	D + CU + E> + EG-	1.3	3.4	-	4.7	-0.5	2.1	-	-
18	D + CU + <E + EG-	-0.1	2.8	-	5.3	-0.7	2.1	-	-
19	D + CG + L + W1>	7.9	4.3	-	0.1	1.6	1.2	-	-
20	D + CG + L + <W1	-6.2	-4.7	-	-5.8	-1.8	-3.1	-	-
21	D + CG + L + W2>	7.5	9.0	-	8.8	2.3	4.8	-	-
22	D + CG + L + <W2	-6.6	-0.0	-	2.8	-1.1	0.6	-	-
23	D + CG + S + W1>	7.2	1.6	-	-5.0	2.3	-0.9	-	-
24	D + CG + S + <W1	-6.9	-7.4	-	-10.9	-1.2	-5.2	-	-
25	D + CG + S + W2>	6.8	6.4	-	3.7	3.0	2.7	-	-
26	D + CG + S + <W2	-7.3	-2.6	-	-2.2	-0.5	-1.5	-	-
27	D + CG + WPA1	2.2	-4.4	-	-8.9	-3.0	-3.8	-	-
28	D + CU + WPA1	1.8	-6.5	-	-12.4	-2.6	-5.3	-	-
29	D + CG + L + WPA1	3.1	2.5	-	4.2	-3.7	1.7	-	-
30	D + CG + S + WPA1	2.4	-0.1	-	-0.9	-3.0	-0.4	-	-
31	D + CG + WPD1	1.3	-9.6	-	-19.6	-1.6	-8.1	-	-
32	D + CU + WPD1	0.9	-11.7	-	-23.1	-1.2	-9.6	-	-
33	D + CG + L + WPD1	2.4	-1.4	-	-3.8	-2.6	-1.6	-	-
34	D + CG + S + WPD1	1.7	-4.0	-	-8.9	-2.0	-3.7	-	-
35	D + CG + WPA2	1.7	1.9	-	2.7	-2.1	1.1	-	-
36	D + CU + WPA2	1.3	-0.2	-	-0.8	-1.7	-0.4	-	-
37	D + CG + L + WPA2	2.6	7.2	-	12.9	-3.0	5.3	-	-
38	D + CG + S + WPA2	2.0	4.6	-	7.8	-2.3	3.2	-	-
39	D + CG + WPD2	0.8	-3.3	-	-8.0	-0.7	-3.2	-	-
40	D + CU + WPD2	0.4	-5.5	-	-11.5	-0.3	-4.7	-	-
41	D + CG + L + WPD2	2.0	3.3	-	4.9	-1.9	2.1	-	-
42	D + CG + S + WPD2	1.3	0.7	-	-0.2	-1.3	0.0	-	-
43	D + CG + WPB1	2.3	-6.0	-	-9.3	-3.0	-3.7	-	-
44	D + CU + WPB1	1.9	-8.1	-	-12.8	-2.6	-5.2	-	-
45	D + CG + L + WPB1	3.1	1.4	-	4.0	-3.7	1.7	-	-
46	D + CG + S + WPB1	2.4	-1.3	-	-1.1	-3.0	-0.4	-	-
47	D + CG + WPC1	1.5	-13.3	-	-20.5	-1.6	-8.0	-	-
48	D + CU + WPC1	1.1	-15.4	-	-24.0	-1.2	-9.5	-	-
49	D + CG + L + WPC1	2.5	-4.1	-	-4.5	-2.6	-1.5	-	-
50	D + CG + S + WPC1	1.8	-6.7	-	-9.6	-1.9	-3.6	-	-
51	D + CG + WPB2	1.7	0.3	-	2.3	-2.1	1.1	-	-
52	D + CU + WPB2	1.3	-1.8	-	-1.2	-1.7	-0.3	-	-
53	D + CG + L + WPB2	2.7	6.1	-	12.6	-3.0	5.3	-	-
54	D + CG + S + WPB2	2.0	3.5	-	7.6	-2.3	3.3	-	-
55	D + CG + WPC2	0.9	-7.0	-	-8.9	-0.7	-3.1	-	-
56	D + CU + WPC2	0.5	-9.1	-	-12.4	-0.3	-4.6	-	-
57	D + CG + L + WPC2	2.1	0.6	-	4.2	-1.9	2.2	-	-
58	D + CG + S + WPC2	1.4	-2.0	-	-0.9	-1.2	0.1	-	-
59	D + CG + EB> + EG+	1.1	5.4	-	8.9	-1.1	3.8	-	-
60	D + CU + EB> + EG-	0.6	3.1	-	5.0	-0.6	2.1	-	-
61	D + CG + <EB + EG+	1.1	5.4	-	8.9	-1.1	3.8	-	-
62	D + CU + <EB + EG-	0.6	3.1	-	5.0	-0.6	2.1	-	-

### Maximum Combined Reactions Summary with Factored Loads - Framing

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	2-A	11.1	14	8.7	7	-	-	-	-	16.2	12	11.3	1	-	-	-	-



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52/4/8	2-F	-	-	-	-	-	-	-	-	25.8	12	20.3	1	-	-	-	-
95/0/0	2-M	3.7	29	5.4	13	-	-	-	-	11.6	12	9.2	2	-	-	-	-



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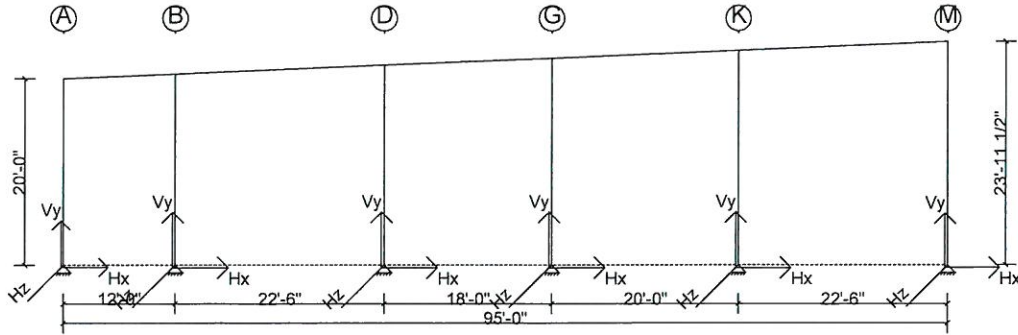
**Wall: 2, Frame at: 99/0/0**

**Design Load Combinations - Framing**

No.	Origin	Factor	Application	Description
1	System	1.000	1.0 D + 1.0 CG + 1.0 L	D + CG + L
2	System	1.000	1.0 D + 1.0 CG + 1.0 ASL^	D + CG + ASL^
3	System	1.000	1.0 D + 1.0 CG + 1.0 ^ASL	D + CG + ^ASL
8	System	1.000	1.0 D + 1.0 CG + 1.0 S	D + CG + S
17	System	1.000	1.0 D + 1.0 CG + 1.0 W1>	D + CG + W1>
18	System	1.000	1.0 D + 1.0 CG + 1.0 <W1	D + CG + <W1
19	System	1.000	1.0 D + 1.0 CG + 1.0 W2>	D + CG + W2>
20	System	1.000	1.0 D + 1.0 CG + 1.0 <W2	D + CG + <W2
21	System	1.000	0.600 D + 0.600 CU + 1.0 W1>	D + CU + W1>
22	System	1.000	0.600 D + 0.600 CU + 1.0 <W1	D + CU + <W1
23	System	1.000	0.600 D + 0.600 CU + 1.0 W2>	D + CU + W2>
24	System	1.000	0.600 D + 0.600 CU + 1.0 <W2	D + CU + <W2
25	System	1.000	1.0 D + 1.0 CG + 0.700 E> + 0.700 EG+	D + CG + E> + EG+
26	System	1.000	1.0 D + 1.0 CG + 0.700 <E + 0.700 EG+	D + CG + <E + EG+
27	System	1.000	0.600 D + 0.600 CU + 0.700 E> + 0.700 EG-	D + CU + E> + EG-
28	System	1.000	0.600 D + 0.600 CU + 0.700 <E + 0.700 EG-	D + CU + <E + EG-
29	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W1>	D + CG + L + W1>
30	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W1	D + CG + L + <W1
31	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 W2>	D + CG + L + W2>
32	System	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 <W2	D + CG + L + <W2
33	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W1>	D + CG + S + W1>
34	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W1	D + CG + S + <W1
35	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 W2>	D + CG + S + W2>
36	System	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 <W2	D + CG + S + <W2
37	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA1	D + CG + WPA1
38	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA1	D + CU + WPA1
39	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA1	D + CG + L + WPA1
40	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA1	D + CG + S + WPA1
41	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD1	D + CG + WPD1
42	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD1	D + CU + WPD1
43	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD1	D + CG + L + WPD1
44	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD1	D + CG + S + WPD1
45	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPA2	D + CG + WPA2
46	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPA2	D + CU + WPA2
47	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPA2	D + CG + L + WPA2
48	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPA2	D + CG + S + WPA2
49	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPD2	D + CG + WPD2
50	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPD2	D + CU + WPD2
51	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPD2	D + CG + L + WPD2
52	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPD2	D + CG + S + WPD2
53	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB1	D + CG + WPB1
54	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB1	D + CU + WPB1
55	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB1	D + CG + L + WPB1
56	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB1	D + CG + S + WPB1
57	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC1	D + CG + WPC1
58	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC1	D + CU + WPC1
59	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC1	D + CG + L + WPC1
60	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC1	D + CG + S + WPC1
61	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPB2	D + CG + WPB2
62	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPB2	D + CU + WPB2
63	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPB2	D + CG + L + WPB2
64	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPB2	D + CG + S + WPB2
65	System Derived	1.000	1.0 D + 1.0 CG + 1.0 WPC2	D + CG + WPC2
66	System Derived	1.000	0.600 D + 0.600 CU + 1.0 WPC2	D + CU + WPC2
67	System Derived	1.000	1.0 D + 1.0 CG + 0.750 L + 0.750 WPC2	D + CG + L + WPC2
68	System Derived	1.000	1.0 D + 1.0 CG + 0.750 S + 0.750 WPC2	D + CG + S + WPC2
69	System Derived	1.000	1.0 D + 1.0 CG + 0.700 EB> + 0.700 EG+	D + CG + EB> + EG+
70	System Derived	1.000	0.600 D + 0.600 CU + 0.700 EB> + 0.700 EG-	D + CU + EB> + EG-
71	System Derived	1.000	1.0 D + 1.0 CG + 0.700 <EB + 0.700 EG+	D + CG + <EB + EG+
72	System Derived	1.000	0.600 D + 0.600 CU + 0.700 <EB + 0.700 EG-	D + CU + <EB + EG-

**Wall: 2, Frame at: 99/0/0**  
Frame ID: Left EW Post and beam

Frame Type: Post & Beam



Values shown are resisting forces of the foundation.

**Reactions - Unfactored Load Type at Frame Cross Section: 1**

Type		Exterior Column		Interior Column			Interior Column			Interior Column			Interior Column		
X-Loc		0/0/0		12/0/0			34/6/0			52/6/0			72/6/0		
Grid1 - Grid2		1-A		1-B			1-D			1-G			1-K		
Base Plate W x L (in.)		8 x 10		8 x 11			8 x 13			8 x 13			8 x 16		
Base Plate Thickness (in.)		0.375		0.375			0.375			0.375			0.375		
Anchor Rod Qty/Diam. (in.)		2 - 0.750		2 - 0.750			4 - 0.750			4 - 0.750			4 - 0.750		
Column Base Elev.		100'-0"		100'-0"			100'-0"			100'-0"			100'-0"		
Load Type	Desc.	Hx	Vy	Hx	H <sub>z</sub>	Vy	Hx	H <sub>z</sub>	Vy	Hx	H <sub>z</sub>	Vy	Hx	H <sub>z</sub>	Vy
D	Frm	-	0.2	-	-	0.9	-	-	1.0	-	-	0.8	-	-	1.2
CG	Frm	-	0.2	-	-	1.0	-	-	1.1	-	-	0.9	-	-	1.2
L	Frm	-	0.7	-	-	3.9	-	-	4.3	-	-	3.4	-	-	4.8
ASL^	Frm	-	-0.6	-	-	3.0	-	-	2.2	-	-	1.8	-	-	2.3
^ASL	Frm	-	1.3	-	-	0.9	-	-	2.1	-	-	1.6	-	-	2.5
S	Frm	-	0.2	-	-	1.0	-	-	1.1	-	-	0.9	-	-	1.2
W1>	Frm	2.0	-0.9	-	5.3	-4.7	-	6.4	-5.2	-	6.2	-4.1	-	7.1	-5.8
<W1	Frm	-1.4	-1.5	-	-4.7	-8.3	-	-5.7	-9.2	-	-5.6	-7.2	-	-6.4	-10.3
W2>	Frm	0.8	-0.5	-	-	-2.3	-	-	-2.6	-	-	-2.0	-	-	-2.9
<W2	Frm	-2.6	-1.0	-	-	-5.9	-	-	-6.6	-	-	-5.1	-	-	-7.3
CU	Frm	-	0.2	-	-	1.0	-	-	1.1	-	-	0.9	-	-	1.2
E>	Frm	-	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-
EG+	Frm	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1
<E	Frm	-	-	-	-0.0	-	-	-0.0	-	-	-0.0	-	-	-0.0	-
EG-	Frm	-	-0.0	-	-	-0.1	-	-	-0.1	-	-	-0.1	-	-	-0.1
WPA1	Brc	2.1	-0.8	-	-	-3.7	-	-	-4.1	-	-	-3.2	-	-	-4.6
WPD1	Brc	2.1	-1.1	-	-	-5.8	-	-	-6.4	-	-	-5.0	-	-	-7.2
WPA2	Brc	0.9	-0.3	-	-	-1.3	-	-	-1.4	-	-	-1.1	-	-	-1.6
WPD2	Brc	0.9	-0.7	-	-	-3.4	-	-	-3.8	-	-	-3.0	-	-	-4.2
WPB1	Brc	2.1	-1.0	-	-	-4.3	-	-	-4.1	-	-	-3.2	-	-	-4.6
WPC1	Brc	2.1	-1.8	-	-	-7.4	-	-	-6.5	-	-	-5.0	-	-	-7.2
WPB2	Brc	0.9	-0.6	-	-	-1.9	-	-	-1.4	-	-	-1.1	-	-	-1.6
WPC2	Brc	0.9	-1.4	-	-	-5.0	-	-	-3.8	-	-	-2.9	-	-	-4.2
EB>	Brc	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Type	Exterior Column			
X-Loc	95/0/0			
Grid1 - Grid2	1-M			
Base Plate W x L (in.)	8 x 16			
Base Plate Thickness (in.)	0.375			
Anchor Rod Qty/Diam. (in.)	4 - 0.750			



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Column Base Elev.		100'-0"					
Load Type	Desc.	Hx	Vy				
D	Frm	-	0.7	-	-	-	-
CG	Frm	-	0.5	-	-	-	-
L	Frm	-	1.9	-	-	-	-
ASL^	Frm	-	-0.2	-	-	-	-
^ASL	Frm	-	2.1	-	-	-	-
S	Frm	-	0.5	-	-	-	-
W1>	Frm	1.7	-2.3	-	-	-	-
<W1	Frm	-2.4	-4.2	-	-	-	-
W2>	Frm	3.1	-1.1	-	-	-	-
<W2	Frm	-1.0	-3.0	-	-	-	-
CU	Frm	-	0.5	-	-	-	-
E>	Frm	0.0	0.0	-	-	-	-
EG+	Frm	-	0.0	-	-	-	-
<E	Frm	-0.0	-0.0	-	-	-	-
EG-	Frm	-	-0.0	-	-	-	-
WPA1	Brc	-2.5	-1.7	-	-	-	-
WPD1	Brc	-2.5	-2.8	-	-	-	-
WPA2	Brc	-1.1	-0.6	-	-	-	-
WPD2	Brc	-1.1	-1.6	-	-	-	-
WPB1	Brc	-2.5	-1.7	-	-	-	-
WPC1	Brc	-2.5	-2.8	-	-	-	-
WPB2	Brc	-1.1	-0.6	-	-	-	-
WPC2	Brc	-1.1	-1.6	-	-	-	-
EB>	Brc	-	-	-	-	-	-
<EB	Brc	-	-	-	-	-	-

### Frame Reactions - Factored Load Cases at Frame Cross Section: 1

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc		0/0/0		12/0/0		34/6/0		52/6/0		72/6/0	
Grid1 - Grid2		1-A		1-B		1-D		1-G		1-K	
Ld	Description	Hx	Vy	Hx	Vy	Hx	Vy	Hx	Vy	Hx	Vy
Cs	(application factor not shown)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)	(k)
1	D + CG + L	-	1.2	-	5.8	-	6.4	-	5.1	-	7.2
2	D + CG + ASL^	-	-0.2	-	4.8	-	4.3	-	3.5	-	4.7
3	D + CG + ^ASL	-	1.8	-	2.8	-	4.1	-	3.3	-	4.9
8	D + CG + S	-	0.6	-	2.9	-	3.2	-	2.5	-	3.6
17	D + CG + W1>	2.0	-0.5	5.3	-2.9	6.4	-3.2	6.2	-2.4	7.1	-3.5
18	D + CG + <W1	-1.4	-1.0	-4.7	-6.4	-5.7	-7.1	-5.6	-5.5	-6.4	-7.9
19	D + CG + W2>	0.8	-0.0	-	-0.5	-	-0.5	-	-0.3	-	-0.5
20	D + CG + <W2	-2.6	-0.5	-	-4.0	-	-4.5	-	-3.5	-	-5.0
21	D + CU + W1>	2.0	-0.7	5.3	-3.6	6.4	-4.0	6.2	-3.1	7.1	-4.4
22	D + CU + <W1	-1.4	-1.2	-4.7	-7.2	-5.7	-8.0	-5.6	-6.2	-6.4	-8.9
23	D + CU + W2>	0.8	-0.2	-	-1.2	-	-1.3	-	-1.0	-	-1.4
24	D + CU + <W2	-2.6	-0.7	-	-4.8	-	-5.3	-	-4.1	-	-5.9
25	D + CG + E> + EG+	-	0.4	0.0	1.9	0.0	2.1	0.0	1.7	0.0	2.4
26	D + CG + <E + EG+	-	0.4	-0.0	1.9	-0.0	2.1	-0.0	1.7	-0.0	2.4
27	D + CU + E> + EG-	-	0.3	0.0	1.1	0.0	1.2	0.0	1.0	0.0	1.4
28	D + CU + <E + EG-	-	0.3	-0.0	1.1	-0.0	1.2	-0.0	1.0	-0.0	1.4
29	D + CG + L + W1>	1.5	0.3	4.0	1.2	4.8	1.4	4.6	1.2	5.3	1.6
30	D + CG + L + <W1	-1.0	-0.1	-3.5	-1.4	-4.3	-1.6	-4.2	-1.2	-4.8	-1.7
31	D + CG + L + W2>	0.6	0.6	-	3.0	-	3.4	-	2.7	-	3.8
32	D + CG + L + <W2	-1.9	0.3	-	0.4	-	0.4	-	0.4	-	0.5
33	D + CG + S + W1>	1.5	-0.1	4.0	-0.9	4.8	-1.0	4.6	-0.8	5.3	-1.1
34	D + CG + S + <W1	-1.0	-0.5	-3.5	-3.6	-4.3	-4.0	-4.2	-3.1	-4.8	-4.4
35	D + CG + S + W2>	0.6	0.2	-	0.9	-	1.0	-	0.8	-	1.1
36	D + CG + S + <W2	-1.9	-0.2	-	-1.8	-	-2.0	-	-1.5	-	-2.2
37	D + CG + WPA1	2.1	-0.3	-	-1.8	-	-2.0	-	-1.5	-	-2.2
38	D + CU + WPA1	2.1	-0.5	-	-2.6	-	-2.8	-	-2.2	-	-3.1
39	D + CG + L + WPA1	1.5	0.4	-	2.0	-	2.3	-	1.9	-	2.6
40	D + CG + S + WPA1	1.5	0.0	-	-0.2	-	-0.2	-	-0.1	-	-0.1
41	D + CG + WPD1	2.1	-0.7	-	-3.9	-	-4.4	-	-3.4	-	-4.8
42	D + CU + WPD1	2.1	-0.9	-	-4.7	-	-5.2	-	-4.0	-	-5.8
43	D + CG + L + WPD1	1.5	0.1	-	0.4	-	0.5	-	0.5	-	0.6
44	D + CG + S + WPD1	1.5	-0.3	-	-1.8	-	-1.9	-	-1.5	-	-2.1
45	D + CG + WPA2	0.9	0.2	-	0.6	-	0.7	-	0.6	-	0.8



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46	D + CU + WPA2	0.9	-0.0	-	-	-0.2	-	-	-0.2	-	-	-0.1	-	-	-0.2
47	D + CG + L + WPA2	0.7	0.8	-	-	3.8	-	-	4.3	-	-	3.4	-	-	4.8
48	D + CG + S + WPA2	0.7	0.4	-	-	1.7	-	-	1.8	-	-	1.5	-	-	2.1
49	D + CG + WPD2	0.9	-0.2	-	-	-1.5	-	-	-1.7	-	-	-1.3	-	-	-1.8
50	D + CU + WPD2	0.9	-0.4	-	-	-2.3	-	-	-2.5	-	-	-1.9	-	-	-2.8
51	D + CG + L + WPD2	0.7	0.5	-	-	2.2	-	-	2.5	-	-	2.0	-	-	2.8
52	D + CG + S + WPD2	0.7	0.1	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1
53	D + CG + WPB1	2.1	-0.6	-	-	-2.5	-	-	-2.0	-	-	-1.5	-	-	-2.2
54	D + CU + WPB1	2.1	-0.8	-	-	-3.2	-	-	-2.8	-	-	-2.2	-	-	-3.1
55	D + CG + L + WPB1	1.5	0.2	-	-	1.5	-	-	2.2	-	-	1.9	-	-	2.6
56	D + CG + S + WPB1	1.5	-0.2	-	-	-0.7	-	-	-0.2	-	-	-0.1	-	-	-0.1
57	D + CG + WPC1	2.1	-1.4	-	-	-5.5	-	-	-4.4	-	-	-3.3	-	-	-4.8
58	D + CU + WPC1	2.1	-1.6	-	-	-6.3	-	-	-5.2	-	-	-4.0	-	-	-5.8
59	D + CG + L + WPC1	1.5	-0.4	-	-	-0.8	-	-	0.5	-	-	0.5	-	-	0.6
60	D + CG + S + WPC1	1.5	-0.8	-	-	-2.9	-	-	-2.0	-	-	-1.4	-	-	-2.1
61	D + CG + WPB2	0.9	-0.1	-	-	-0.1	-	-	0.7	-	-	0.6	-	-	0.8
62	D + CU + WPB2	0.9	-0.3	-	-	-0.8	-	-	-0.2	-	-	-0.1	-	-	-0.2
63	D + CG + L + WPB2	0.7	0.6	-	-	3.3	-	-	4.2	-	-	3.4	-	-	4.8
64	D + CG + S + WPB2	0.7	0.1	-	-	1.2	-	-	1.8	-	-	1.5	-	-	2.1
65	D + CG + WPC2	0.9	-0.9	-	-	-3.1	-	-	-1.7	-	-	-1.3	-	-	-1.8
66	D + CU + WPC2	0.9	-1.1	-	-	-3.9	-	-	-2.6	-	-	-1.9	-	-	-2.8
67	D + CG + L + WPC2	0.7	-0.0	-	-	1.1	-	-	2.5	-	-	2.0	-	-	2.8
68	D + CG + S + WPC2	0.7	-0.5	-	-	-1.1	-	-	0.0	-	-	0.1	-	-	0.1
69	D + CG + EB> + EG+	-	0.4	-	-	1.9	-	-	2.1	-	-	1.7	-	-	2.4
70	D + CU + EB> + EG-	-	0.3	-	-	1.1	-	-	1.2	-	-	1.0	-	-	1.4
71	D + CG + <EB + EG+	-	0.4	-	-	1.9	-	-	2.1	-	-	1.7	-	-	2.4
72	D + CU + <EB + EG-	-	0.3	-	-	1.1	-	-	1.2	-	-	1.0	-	-	1.4

X-Loc		95/0/0					
Grid1 - Grid2		I-M					
Ld	Description	Hx	Vy				
Cs	(application factor not shown)	(k)	(k)				
1	D + CG + L	-	3.1	-	-	-	-
2	D + CG + ASL^	-	1.0	-	-	-	-
3	D + CG + ^ASL	-	3.3	-	-	-	-
8	D + CG + S	-	1.7	-	-	-	-
17	D + CG + W1>	1.7	-1.1	-	-	-	-
18	D + CG + <W1	-2.4	-3.0	-	-	-	-
19	D + CG + W2>	3.1	0.0	-	-	-	-
20	D + CG + <W2	-1.0	-1.9	-	-	-	-
21	D + CU + W1>	1.7	-1.6	-	-	-	-
22	D + CU + <W1	-2.4	-3.5	-	-	-	-
23	D + CU + W2>	3.1	-0.4	-	-	-	-
24	D + CU + <W2	-1.0	-2.3	-	-	-	-
25	D + CG + E> + EG+	0.0	1.2	-	-	-	-
26	D + CG + <E + EG+	-0.0	1.2	-	-	-	-
27	D + CU + E> + EG-	0.0	0.7	-	-	-	-
28	D + CU + <E + EG-	-0.0	0.7	-	-	-	-
29	D + CG + L + W1>	1.3	0.9	-	-	-	-
30	D + CG + L + <W1	-1.8	-0.5	-	-	-	-
31	D + CG + L + W2>	2.3	1.8	-	-	-	-
32	D + CG + L + <W2	-0.7	0.3	-	-	-	-
33	D + CG + S + W1>	1.3	-0.2	-	-	-	-
34	D + CG + S + <W1	-1.8	-1.6	-	-	-	-
35	D + CG + S + W2>	2.3	0.7	-	-	-	-
36	D + CG + S + <W2	-0.7	-0.7	-	-	-	-
37	D + CG + WPA1	-2.5	-0.5	-	-	-	-
38	D + CU + WPA1	-2.5	-1.0	-	-	-	-
39	D + CG + L + WPA1	-1.9	1.3	-	-	-	-
40	D + CG + S + WPA1	-1.9	0.3	-	-	-	-
41	D + CG + WPD1	-2.5	-1.6	-	-	-	-
42	D + CU + WPD1	-2.5	-2.1	-	-	-	-
43	D + CG + L + WPD1	-1.9	0.5	-	-	-	-
44	D + CG + S + WPD1	-1.9	-0.5	-	-	-	-
45	D + CG + WPA2	-1.1	0.6	-	-	-	-
46	D + CU + WPA2	-1.1	0.1	-	-	-	-
47	D + CG + L + WPA2	-0.8	2.2	-	-	-	-



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48	D + CG + S + WPA2	-0.8	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	D + CG + WPD2	-1.1	-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	D + CU + WPD2	-1.1	-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	D + CG + L + WPD2	-0.8	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	D + CG + S + WPD2	-0.8	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	D + CG + WPB1	-2.5	-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	D + CU + WPB1	-2.5	-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	D + CG + L + WPB1	-1.9	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	D + CG + S + WPB1	-1.9	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	D + CG + WPC1	-2.5	-1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	D + CU + WPC1	-2.5	-2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	D + CG + L + WPC1	-1.9	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	D + CG + S + WPC1	-1.9	-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	D + CG + WPB2	-1.1	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	D + CU + WPB2	-1.1	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	D + CG + L + WPB2	-0.8	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	D + CG + S + WPB2	-0.8	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	D + CG + WPC2	-1.1	-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66	D + CU + WPC2	-1.1	-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
67	D + CG + L + WPC2	-0.8	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
68	D + CG + S + WPC2	-0.8	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	D + CG + EB> + EG+	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	D + CU + EB> + EG-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	D + CG + <EB + EG+	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	D + CU + <EB + EG-	-	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Maximum Combined Reactions Summary with Factored Loads - Framing**

Note: All reactions based on 2nd order structural analysis using the Direct Analysis Method

X-Loc	Grid	Hz left (-Hx) (k)	Load Case	Hz Right (Hx) (k)	Load Case	Hz In (-Hz) (k)	Load Case	Hz Out (Hz) (k)	Load Case	Uplift (-Vy) (k)	Load Case	Vrt Down (Vy) (k)	Load Case	Mom cw (-Mzz) (in-k)	Load Case	Mom ccw (Mzz) (in-k)	Load Case
0/0/0	1-A	2.6	20	2.1	37	-	-	-	-	1.6	58	1.8	3	-	-	-	-
12/0/0	1-B	-	-	-	-	4.7	18	5.3	17	7.2	22	5.8	1	-	-	-	-
34/6/0	1-D	-	-	-	-	5.7	18	6.4	17	8.0	22	6.4	1	-	-	-	-
52/6/0	1-G	-	-	-	-	5.6	18	6.2	17	6.2	22	5.1	1	-	-	-	-
72/6/0	1-K	-	-	-	-	6.4	18	7.1	17	8.9	22	7.2	1	-	-	-	-
95/0/0	1-M	2.5	37	3.1	19	-	-	-	-	3.5	22	3.3	3	-	-	-	-