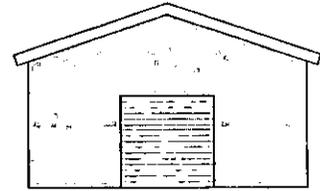




LOOMIS BUILDING SYSTEMS

3485 SWETZER RD. PH. 916-652-6268
LOOMIS, CA. 95650 FAX. 916-652-6268



BUILDING CALCULATIONS FOR:

TWO ROCK V.F.D. - PETALUMA, CA. 60' x 90' x 14' - GABLE BUILDING



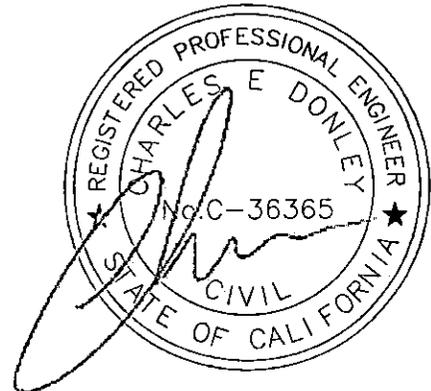
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| SECTION - 4 | DIAGONAL BRACING DESIGN |
| SECTION - 5 | SECTION SIZES |
| SECTION - 6 | FOUNDATION DESIGN |

THIS BUILDING MEETS OR EXCEEDS
CODE / CLASS:

CBC 2016 OPEN

FOR A LOADING OF:



| | | | | | |
|-------|----------|----------------|--------|---------------|--------|
| DEAD: | 2.75 PSF | LIVE: (PURLIN) | 20 PSF | LIVE: (FRAME) | 12 PSF |
| WIND: | 115 MPH | SNOW: | 0 PSF | COLLATERAL: | 0 PSF |

SECTION 1

QUOTE

Quote Confirmation

Loomis Building Systems
3485 A Swetzer Road
Loomis, CA, 95650
916-652-6268

Time: 9:06:29 AM
Date: 8/6/2019
Page: 1

60' X 90' X 14' BUILDING

Prepared For: TWO ROCKS VFD
7599 VALLEY FORD ROAD
PETALUMA CA
Phone:
Fax:

Building 1

| | | | |
|-----------------|--------------------|-------------|-----------|
| Building Type | Symmetrical Gabled | Peak | 30.000 FT |
| Building Width | 60.000 FT | LSW Height | 14.000 FT |
| Building Length | 90.000 FT | RSW Height | 14.000 FT |
| Left Slope | 1.000 | Right Slope | 1.000 |

Frame Lines

| Frame Line | EW Frame Type | Frames | Bay Sizes |
|------------|-----------------------------|----------------|-------------|
| 1 | Std end frame fully paneled | | 22.000 Feet |
| 2 | | Frame Number 1 | 23.000 Feet |
| 3 | | Frame Number 1 | 23.000 Feet |
| 4 | | Frame Number 1 | 22.000 Feet |
| 5 | Std end frame fully paneled | | |

Frames

| | Column Type | Interior Columns | Frame Dead | Collateral Dead |
|----------------|-------------|------------------|------------|-----------------|
| Frame Number 1 | Tapered | 0 | 2.75 (PSF) | 0.00 (PSF) |

Panels

| | Type | Gauge | Finish | Panel Suffix | Trim Finish | Trim Suffix |
|----------------|---------|-------|---------|--------------|---------------------|-------------|
| Left Roof | R-Panel | 26 | Painted | None | Color Signature 200 | None |
| Right Roof | R-Panel | 26 | Painted | None | Color Signature 200 | None |
| Front Endwall | R-Panel | 26 | Painted | None | Color Signature 200 | None |
| Back Endwall | R-Panel | 26 | Painted | None | Color Signature 200 | None |
| Left Sidewall | R-Panel | 26 | Painted | None | Color Signature 200 | None |
| Right Sidewall | R-Panel | 26 | Painted | None | Color Signature 200 | None |

Structure Loads

| Live Frames | Live Purlins | Wind | Ground Snow | Roof Snow | Roof Collateral Dead |
|-------------|--------------|------------|-------------|-----------|----------------------|
| 12.00 PSF | 20.00 PSF | 115.00 MPH | 0.00 PSF | 0.00 PSF | 0.00 PSF |

Endwall Column Spacing--Left To Right

| Front Endwall | Back Endwall |
|---------------|--------------|
| 20.000 Feet | 20.000 Feet |
| 20.000 Feet | 20.000 Feet |
| 20.000 Feet | 20.000 Feet |

Purlin/Girt Support Conditions

| | Type | Design | Outside Flange | Inside Flange | Lap Condition |
|----------------|----------|-------------|----------------|---------------|---------------|
| Left Roof | Exterior | Continuous | Fully Braced | Fully Braced | --- |
| Right Roof | Exterior | Continuous | Fully Braced | Fully Braced | --- |
| Front Endwall | Flush | Simple Span | Fully Braced | Fully Braced | --- |
| Back Endwall | Flush | Simple Span | Fully Braced | Fully Braced | --- |
| Left Sidewall | Exterior | Simple Span | Fully Braced | Fully Braced | --- |
| Right Sidewall | Exterior | Simple Span | Fully Braced | Fully Braced | --- |

Openings

| Surface | Number | Distance From Corner | Width | Header | Sill | Cover |
|----------------|--------|----------------------|-------------|-------------|------------|-------|
| Right Sidewall | 1 | 72.000 | 12.000 (FT) | 12.000 (FT) | 0.000 (FT) | None |
| Right Sidewall | 1 | 50.000 | 12.000 (FT) | 12.000 (FT) | 0.000 (FT) | None |
| Right Sidewall | 1 | 28.000 | 12.000 (FT) | 12.000 (FT) | 0.000 (FT) | None |

Quote Confirmation

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Loomis, CA, 95650
916-652-6268

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Building 1

Openings

| Surface | Number | Distance From Corner | Width | Header | Sill | Cover |
|----------------|--------|----------------------|-------------|-------------|------------|-------|
| Right Sidewall | 1 | 6.000 | 12.000 (FT) | 12.000 (FT) | 0.000 (FT) | None |

Purlin Spacing 60.00 Inches
Downspouts at Left Sidewall 0
Downspouts at Right Sidewall 0
Base Anchorage Base Angle
Building Code CBC 2016 Enclosed
Soil D - Stiff Soil
Terrain C - Open Terrain
Exposure 1 - Fully
Seismic Design Category D
Distance to job site 75.00 Miles
Special Fee 0.00

Price: _____ Est Wt: _____ 29012.

DISCLAIMER OF WARRANTY AND LIABILITY

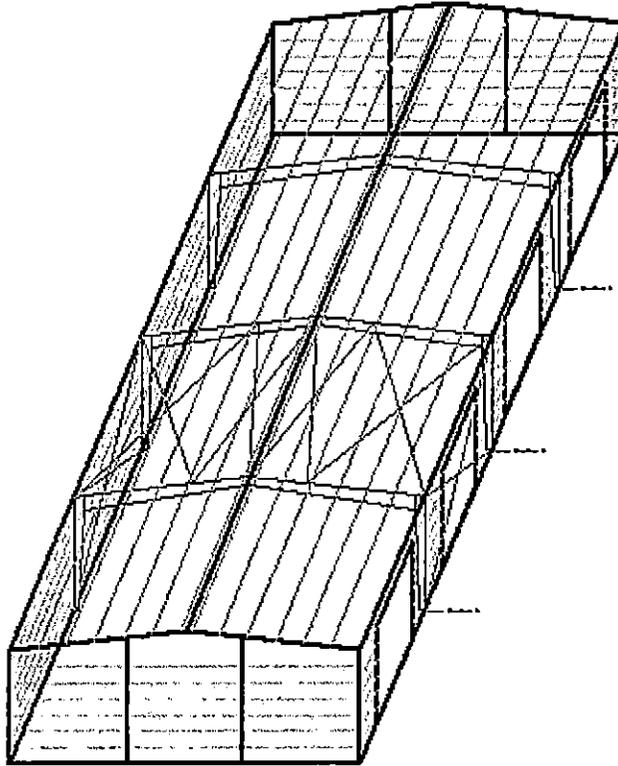
You can place up to one page of text at this location by editing the file DISCLAIM.ASC. On the first line, specify the number of lines to be used. Use no more than 80 characters per line.

Quote Confirmation

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Building 1



SECTION 2

FRAME DESIGN

20/14

1

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 Frame Design Report

Page 1

Date 8/6/2019

Time 9:06:26 AM
 PROJECT: 60' X 90' X 14' BUILDING
 FRAME: Frame Number 1

FRAME SUMMARY

Frame Span: 60.00 (ft)
 Building Name: Building 1
 Building Type: Symmetrical Gabled

FRAME GEOMETRY

| Left | Left Right | Right | Left | Right | Left | Right |
|---------------|---------------|--------|-------|-------|-------|-------|
| Purlin | Purlin | Eave | Roof | Roof | Girt | Girt |
| Span | Height | Height | Slope | Slope | Depth | Depth |
| Depth (ft) | Depth (ft) | (ft) | (/12) | (/12) | (in) | (in) |
| 60.0 | 14.0 | 14.0 | 1.0 | 1.0 | 8.0 | 8.0 |
| 8.0 | 8.0 | | | | | |

| Final Mem | End Length | Projection | | Initial | End | | | |
|--------------|---------------|------------|-------|---------|---------|---------|-------|---|
| Num | (ft) | Hrznt | Vrtcl | Jt No | X Coord | Y Coord | Jt No | X |
| 1 | 12.60 | 0.44 | 12.60 | 1 | 0.00 | 0.00 | 2 | |
| 0.44 | 12.60 | | | | | | | |
| 2 | 12.60 | -0.44 | 12.60 | 6 | 57.78 | 0.00 | 5 | |
| 57.34 | 12.60 | | | | | | | |
| 3 | 28.58 | 28.45 | 2.66 | 2 | 0.44 | 12.60 | 3 | |
| 28.89 | 15.25 | | | | | | | |
| 4 | 28.58 | -28.45 | 2.66 | 5 | 57.34 | 12.60 | 3 | |
| 28.89 | 15.25 | | | | | | | |
| 5 | 1.55 | -1.55 | -0.06 | 2 | 0.44 | 12.60 | 4 | |
| -1.11 | 12.54 | | | | | | | |
| 6 | 1.55 | 1.55 | -0.06 | 5 | 57.34 | 12.60 | 7 | |

58.89 12.54

| | X | Y |
|--------------------------|-------|-------|
| Minimum Joint Coordinate | -1.11 | 0.00 |
| Maximum Joint Coordinate | 58.89 | 15.25 |

FRAME LOADS

| Roof | Sidewall | Coll | Ground | Roof | |
|-------|----------|-------|--------|-------|-------|
| Live | Dead | Dead | Snow | Snow | Wind |
| Trib. | Trib. | Load | Load | Load | Load |
| Load | Load | Load | Load | Load | Load |
| Width | Width | (psf) | (psf) | (psf) | (psf) |
| (psf) | (psf) | | | | |
| (ft) | (ft) | | | | |

| | | | | | |
|-------|-------|------|------|------|-------|
| 12.00 | 2.75 | 0.00 | 0.00 | 0.00 | 28.78 |
| 23.00 | 23.00 | | | | |

BRACE LOCATIONS

Building 1 - Purlin Brace Locations:

1 2 4 6

Building 1 - Left Column Girt Brace Locations:

4

Building 1 - Right Column Girt Brace Locations:

4

Loomis Building Systems
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Frame Design Report

Page 2

Date 8/6/2019

Time 9:06:26 AM
PROJECT: 60' X 90' X 14' BUILDING
FRAME: Frame Number 1

BUILDING CODE SETUP INFORMATION

--Structure--

Building Name: Building 1
Code Type: CBC 2016
Code: ASCE7-10
Design Specification: AISC 360-10
AOS: 1
Exposure: 1 - Fully

Building Category: 4 - Essential
Facilities
Heating Condition: All Others
Surface: All Others
Enclosed Condition: Enclosed

Use Unbalanced Snow Loads: No
Use Snow Loads in Seismic Calculations: No
Snow Load Usage Factor: 0.20
Include Floor Live Load in Building Weight for Seismic Calc?:
No

Floor Live Load Usage Factor: 0.25
Accel Short Period (0.2 sec): 1.50
Accel (1.0 sec): 0.60
Terrain: C - Open Terrain

Soil Profile: D - Stiff Soil
Use Rain on Snow Surcharge: Yes

Seismic Design Category: D

--Frame--

Response Modification Factor (R): 3.500
Building Period Coefficient for Frame Type (Ct): 0.028
System Overstrength Factor: 3
Wind Zone: Interior

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 Frame Design Report

Page 3

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

STEEL YIELDS

| Rectangular Member Tube Yield (ksi) | Flange Yield (ksi) | Web Yield (ksi) | Mill Yield (ksi) | Pipe Yield (ksi) |
|--|-----------------------|--------------------|---------------------|---------------------|
| 1 | 50.00 | 50.00 | 0.00 | 0.00 |
| 0.00 | | | | |
| 2 | 50.00 | 50.00 | 0.00 | 0.00 |
| 0.00 | | | | |
| 3 | 50.00 | 50.00 | 0.00 | 0.00 |
| 0.00 | | | | |
| 4 | 50.00 | 50.00 | 0.00 | 0.00 |
| 0.00 | | | | |
| 5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | |
| 6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | | | |

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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

WIND COEFFICIENTS

| Cp | Internal | | | External | | |
|--------|-----------|-------|-------------|----------|----------|------|
| | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | Num | Description | Cp | Cp | |
| Factor | | GCpi | | | | |
| 1 | 4 | D+.6W | C1IP L | 0.40 | 0.19 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 2 | 4 | D+.6W | C1IP L | 0.29 | 0.40 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 3 | 4 | D+.6W | C1IP L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 4 | 4 | D+.6W | C1IP L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 5 | 4 | D+.6W | C1IP L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 6 | 4 | D+.6W | C1IP L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 1 | 5 | D+.6W | C1IP R | -0.29 | -0.40 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 2 | 5 | D+.6W | C1IP R | -0.40 | -0.19 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 3 | 5 | D+.6W | C1IP R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 4 | 5 | D+.6W | C1IP R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 5 | 5 | D+.6W | C1IP R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 6 | 5 | D+.6W | C1IP R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 1 | 6 | D+.6W | C1IS L | 0.40 | 0.49 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 2 | 6 | D+.6W | C1IS L | 0.29 | 0.09 | 1.00 |

| | | | | | |
|------|------|--------------|-------|-------|------|
| 0.85 | 1.00 | -0.18 | | | |
| 3 | 6 | D+.6W C1IS L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 4 | 6 | D+.6W C1IS L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 5 | 6 | D+.6W C1IS L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 6 | 6 | D+.6W C1IS L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 1 | 7 | D+.6W C1IS R | -0.29 | -0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 2 | 7 | D+.6W C1IS R | -0.40 | -0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 3 | 7 | D+.6W C1IS R | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 4 | 7 | D+.6W C1IS R | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 5 | 7 | D+.6W C1IS R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 6 | 7 | D+.6W C1IS R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 1 | 8 | D+.6W C2IP L | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 2 | 8 | D+.6W C2IP L | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 3 | 8 | D+.6W C2IP L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 4 | 8 | D+.6W C2IP L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 5 | 8 | D+.6W C2IP L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 6 | 8 | D+.6W C2IP L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 1 | 9 | D+.6W C2IP R | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |

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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Cp | Internal | | | External | | |
|--------|-----------|--------------|-------|----------|----------|------|
| | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | | Cp | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | | GCpi | | | | |
| 2 | 9 | D+.6W C2IP R | | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 3 | 9 | D+.6W C2IP R | | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 4 | 9 | D+.6W C2IP R | | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 5 | 9 | D+.6W C2IP R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 6 | 9 | D+.6W C2IP R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 1 | 10 | D+.6W C2IS L | | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 2 | 10 | D+.6W C2IS L | | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 3 | 10 | D+.6W C2IS L | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 4 | 10 | D+.6W C2IS L | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 5 | 10 | D+.6W C2IS L | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 6 | 10 | D+.6W C2IS L | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 1 | 11 | D+.6W C2IS R | | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 2 | 11 | D+.6W C2IS R | | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 3 | 11 | D+.6W C2IS R | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 4 | 11 | D+.6W C2IS R | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |

| | | | | | |
|------|------|----------------------|-------|-------|------|
| 5 | 11 | D+.6W C2IS R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 6 | 11 | D+.6W C2IS R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 1 | 16 | D+.75Lfr+.45W C1IP L | 0.40 | 0.19 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 2 | 16 | D+.75Lfr+.45W C1IP L | 0.29 | 0.40 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 3 | 16 | D+.75Lfr+.45W C1IP L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 4 | 16 | D+.75Lfr+.45W C1IP L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 5 | 16 | D+.75Lfr+.45W C1IP L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 6 | 16 | D+.75Lfr+.45W C1IP L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 1 | 17 | D+.75Lfr+.45W C1IP R | -0.29 | -0.40 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 2 | 17 | D+.75Lfr+.45W C1IP R | -0.40 | -0.19 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 3 | 17 | D+.75Lfr+.45W C1IP R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 4 | 17 | D+.75Lfr+.45W C1IP R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 5 | 17 | D+.75Lfr+.45W C1IP R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 6 | 17 | D+.75Lfr+.45W C1IP R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | |
| 1 | 18 | D+.75Lfr+.45W C1IS L | 0.40 | 0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 2 | 18 | D+.75Lfr+.45W C1IS L | 0.29 | 0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 3 | 18 | D+.75Lfr+.45W C1IS L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 4 | 18 | D+.75Lfr+.45W C1IS L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |
| 5 | 18 | D+.75Lfr+.45W C1IS L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | |

Loomis Building Systems
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 Loomis, CA, 95650
 916-652-6268
 Frame Design Report

Page 6

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| | | | | External | | |
|--------|-----------|----------------------|--|----------|----------|------|
| Cp | Internal | | | External | Combined | Gh |
| Mem | Ld | Load | | | | |
| Kh | Reduction | Cp | | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | GCpi | | | | | |
| 6 | 18 | D+.75Lfr+.45W C1IS L | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 19 | D+.75Lfr+.45W C1IS R | | -0.29 | -0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 2 | 19 | D+.75Lfr+.45W C1IS R | | -0.40 | -0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 3 | 19 | D+.75Lfr+.45W C1IS R | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 4 | 19 | D+.75Lfr+.45W C1IS R | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 5 | 19 | D+.75Lfr+.45W C1IS R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 6 | 19 | D+.75Lfr+.45W C1IS R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 20 | D+.75Lfr+.45W C2IP L | | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 2 | 20 | D+.75Lfr+.45W C2IP L | | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 3 | 20 | D+.75Lfr+.45W C2IP L | | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 4 | 20 | D+.75Lfr+.45W C2IP L | | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 5 | 20 | D+.75Lfr+.45W C2IP L | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 6 | 20 | D+.75Lfr+.45W C2IP L | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 1 | 21 | D+.75Lfr+.45W C2IP R | | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 2 | 21 | D+.75Lfr+.45W C2IP R | | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |

| | | | | | | | |
|------|------|-------------------|------|---|-------|-------|------|
| 3 | 21 | D+.75Lfr+.45W | C2IP | R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 4 | 21 | D+.75Lfr+.45W | C2IP | R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 5 | 21 | D+.75Lfr+.45W | C2IP | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 6 | 21 | D+.75Lfr+.45W | C2IP | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 1 | 22 | D+.75Lfr+.45W | C2IS | L | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 2 | 22 | D+.75Lfr+.45W | C2IS | L | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 3 | 22 | D+.75Lfr+.45W | C2IS | L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 4 | 22 | D+.75Lfr+.45W | C2IS | L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 5 | 22 | D+.75Lfr+.45W | C2IS | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 6 | 22 | D+.75Lfr+.45W | C2IS | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 1 | 23 | D+.75Lfr+.45W | C2IS | R | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 2 | 23 | D+.75Lfr+.45W | C2IS | R | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 3 | 23 | D+.75Lfr+.45W | C2IS | R | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 4 | 23 | D+.75Lfr+.45W | C2IS | R | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 5 | 23 | D+.75Lfr+.45W | C2IS | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 6 | 23 | D+.75Lfr+.45W | C2IS | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 1 | 24 | D+.75Lf+.45W+.75S | C1IP | L | 0.40 | 0.19 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 2 | 24 | D+.75Lf+.45W+.75S | C1IP | L | 0.29 | 0.40 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 3 | 24 | D+.75Lf+.45W+.75S | C1IP | L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |

Loomis Building Systems
 3485 A Swetzer Road
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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Cp | Internal | | | External | | |
|--------|-----------|--------------------------|-------|----------|----------|------|
| | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | | Cp | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | | GCpi | | | | |
| 4 | 24 | D+.75Lf+.45W+.75S C1IP L | 0.18 | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 5 | 24 | D+.75Lf+.45W+.75S C1IP L | 0.18 | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 6 | 24 | D+.75Lf+.45W+.75S C1IP L | 0.18 | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 1 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -0.29 | -0.40 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 2 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -0.40 | -0.19 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 3 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 4 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 5 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 6 | 25 | D+.75Lf+.45W+.75S C1IP R | 0.18 | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 1 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | 0.40 | 0.49 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 2 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | 0.29 | 0.09 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 3 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 4 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 5 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | | | |
| 6 | 26 | D+.75Lf+.45W+.75S C1IS L | -0.18 | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | | | |

| | | | | | | | |
|------|------|-------------------|------|---|-------|-------|------|
| 1 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -0.29 | -0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 2 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -0.40 | -0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 3 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 4 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 5 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 6 | 27 | D+.75Lf+.45W+.75S | C1IS | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |
| 1 | 28 | D+.75Lf+.45W+.75S | C2IP | L | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 2 | 28 | D+.75Lf+.45W+.75S | C2IP | L | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 3 | 28 | D+.75Lf+.45W+.75S | C2IP | L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 4 | 28 | D+.75Lf+.45W+.75S | C2IP | L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 5 | 28 | D+.75Lf+.45W+.75S | C2IP | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 6 | 28 | D+.75Lf+.45W+.75S | C2IP | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 1 | 29 | D+.75Lf+.45W+.75S | C2IP | R | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 2 | 29 | D+.75Lf+.45W+.75S | C2IP | R | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 3 | 29 | D+.75Lf+.45W+.75S | C2IP | R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 4 | 29 | D+.75Lf+.45W+.75S | C2IP | R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 5 | 29 | D+.75Lf+.45W+.75S | C2IP | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 6 | 29 | D+.75Lf+.45W+.75S | C2IP | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | | |
| 1 | 30 | D+.75Lf+.45W+.75S | C2IS | L | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | | |

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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Cp | Internal | | | External | | |
|--------|-----------|--------------------------|-------|----------|----------|----|
| | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | | Cp | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | | GCpi | | | | |
| 2 | 30 | D+.75Lf+.45W+.75S C2IS L | 0.45 | 0.23 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 3 | 30 | D+.75Lf+.45W+.75S C2IS L | -0.69 | -0.43 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 4 | 30 | D+.75Lf+.45W+.75S C2IS L | -0.37 | -0.16 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 5 | 30 | D+.75Lf+.45W+.75S C2IS L | -1.77 | -1.50 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 6 | 30 | D+.75Lf+.45W+.75S C2IS L | -0.53 | -0.45 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 31 | D+.75Lf+.45W+.75S C2IS R | -0.45 | -0.23 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 2 | 31 | D+.75Lf+.45W+.75S C2IS R | 0.45 | 0.23 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 3 | 31 | D+.75Lf+.45W+.75S C2IS R | -0.37 | -0.16 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 4 | 31 | D+.75Lf+.45W+.75S C2IS R | -0.69 | -0.43 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 5 | 31 | D+.75Lf+.45W+.75S C2IS R | -0.53 | -0.45 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 6 | 31 | D+.75Lf+.45W+.75S C2IS R | -1.77 | -1.50 | 1.00 | |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 36 | 0.6D+.6W C1IP L | 0.40 | 0.19 | 1.00 | |
| 0.85 | 1.00 | 0.18 | | | | |
| 2 | 36 | 0.6D+.6W C1IP L | 0.29 | 0.40 | 1.00 | |
| 0.85 | 1.00 | 0.18 | | | | |
| 3 | 36 | 0.6D+.6W C1IP L | -0.69 | -0.74 | 1.00 | |
| 0.85 | 1.00 | 0.18 | | | | |
| 4 | 36 | 0.6D+.6W C1IP L | -0.37 | -0.47 | 1.00 | |
| 0.85 | 1.00 | 0.18 | | | | |

| | | | | | | |
|------|------|----------|--------|-------|-------|------|
| 5 | 36 | 0.6D+.6W | CLIP L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 6 | 36 | 0.6D+.6W | CLIP L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 1 | 37 | 0.6D+.6W | CLIP R | -0.29 | -0.40 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 2 | 37 | 0.6D+.6W | CLIP R | -0.40 | -0.19 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 3 | 37 | 0.6D+.6W | CLIP R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 4 | 37 | 0.6D+.6W | CLIP R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 5 | 37 | 0.6D+.6W | CLIP R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 6 | 37 | 0.6D+.6W | CLIP R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | |
| 1 | 38 | 0.6D+.6W | CLIS L | 0.40 | 0.49 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 2 | 38 | 0.6D+.6W | CLIS L | 0.29 | 0.09 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 3 | 38 | 0.6D+.6W | CLIS L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 4 | 38 | 0.6D+.6W | CLIS L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 5 | 38 | 0.6D+.6W | CLIS L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 6 | 38 | 0.6D+.6W | CLIS L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 1 | 39 | 0.6D+.6W | CLIS R | -0.29 | -0.09 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 2 | 39 | 0.6D+.6W | CLIS R | -0.40 | -0.49 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 3 | 39 | 0.6D+.6W | CLIS R | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 4 | 39 | 0.6D+.6W | CLIS R | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 5 | 39 | 0.6D+.6W | CLIS R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Internal | | | External | | | |
|----------|-----------|-----------------|----------|----------|----------|------|
| Cp | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | | Cp | Cp | Cp | |
| Num | Num | Description | | | | |
| Factor | | GCpi | | | | |
| 6 | 39 | 0.6D+.6W C1IS R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 40 | 0.6D+.6W C2IP L | | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 2 | 40 | 0.6D+.6W C2IP L | | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 3 | 40 | 0.6D+.6W C2IP L | | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 4 | 40 | 0.6D+.6W C2IP L | | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 5 | 40 | 0.6D+.6W C2IP L | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 6 | 40 | 0.6D+.6W C2IP L | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 1 | 41 | 0.6D+.6W C2IP R | | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 2 | 41 | 0.6D+.6W C2IP R | | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 3 | 41 | 0.6D+.6W C2IP R | | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 4 | 41 | 0.6D+.6W C2IP R | | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 5 | 41 | 0.6D+.6W C2IP R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 6 | 41 | 0.6D+.6W C2IP R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 1 | 42 | 0.6D+.6W C2IS L | | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 2 | 42 | 0.6D+.6W C2IS L | | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |

| | | | | | | | |
|------|------|----------|-------|---|-------|-------|------|
| 3 | 42 | 0.6D+.6W | C2IS | L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 4 | 42 | 0.6D+.6W | C2IS | L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 5 | 42 | 0.6D+.6W | C2IS | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 6 | 42 | 0.6D+.6W | C2IS | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 1 | 43 | 0.6D+.6W | C2IS | R | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 2 | 43 | 0.6D+.6W | C2IS | R | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 3 | 43 | 0.6D+.6W | C2IS | R | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 4 | 43 | 0.6D+.6W | C2IS | R | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 5 | 43 | 0.6D+.6W | C2IS | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 6 | 43 | 0.6D+.6W | C2IS | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | | |
| 1 | 51 | W | C1IP | L | 0.40 | 0.19 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 2 | 51 | W | C1IP | L | 0.29 | 0.40 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 3 | 51 | W | C1IP | L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 4 | 51 | W | C1IP | L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 5 | 51 | W | C1IP | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 6 | 51 | W | C1IP | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 1 | 52 | W | C1IP | R | -0.29 | -0.40 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 2 | 52 | W | C1IP | R | -0.40 | -0.19 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |
| 3 | 52 | W | C1IP | R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | 0.18 | | | | |

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| | | | | External | | |
|--------|-----------|-------------|--|----------|----------|------|
| Cp | Internal | | | External | Combined | Gh |
| Mem | Ld | Load | | | | |
| Kh | Reduction | Cp | | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | GCpi | | | | | |
| 4 | 52 | W C1IP R | | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 5 | 52 | W C1IP R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 6 | 52 | W C1IP R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | 0.18 | | | | |
| 1 | 53 | W C1IS L | | 0.40 | 0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 2 | 53 | W C1IS L | | 0.29 | 0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 3 | 53 | W C1IS L | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 4 | 53 | W C1IS L | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 5 | 53 | W C1IS L | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 6 | 53 | W C1IS L | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 1 | 54 | W C1IS R | | -0.29 | -0.09 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 2 | 54 | W C1IS R | | -0.40 | -0.49 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 3 | 54 | W C1IS R | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 4 | 54 | W C1IS R | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 5 | 54 | W C1IS R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |
| 6 | 54 | W C1IS R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | -0.18 | | | | |

| | | | | | | | |
|------|------|---|------|-------|-------|-------|------|
| 1 | 55 | W | C2IP | L | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 2 | 55 | W | C2IP | L | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 3 | 55 | W | C2IP | L | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 4 | 55 | W | C2IP | L | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 5 | 55 | W | C2IP | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 6 | 55 | W | C2IP | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 1 | 56 | W | C2IP | R | -0.45 | -0.53 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 2 | 56 | W | C2IP | R | 0.45 | 0.53 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 3 | 56 | W | C2IP | R | -0.37 | -0.47 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 4 | 56 | W | C2IP | R | -0.69 | -0.74 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 5 | 56 | W | C2IP | R | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 6 | 56 | W | C2IP | R | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | 0.18 | | | |
| 1 | 57 | W | C2IS | L | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 2 | 57 | W | C2IS | L | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 3 | 57 | W | C2IS | L | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 4 | 57 | W | C2IS | L | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 5 | 57 | W | C2IS | L | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 6 | 57 | W | C2IS | L | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |
| 1 | 58 | W | C2IS | R | -0.45 | -0.23 | 1.00 |
| 0.85 | 1.00 | | | -0.18 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Cp | Internal | | | External | | |
|--------|-----------|-------------|-------|----------|----------|------|
| | Mem | Ld | Load | External | Combined | Gh |
| Kh | Reduction | | Cp | | | |
| Num | Num | Description | | Cp | Cp | |
| Factor | | GCpi | | | | |
| 2 | 58 | W C2IS R | | 0.45 | 0.23 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 3 | 58 | W C2IS R | | -0.37 | -0.16 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 4 | 58 | W C2IS R | | -0.69 | -0.43 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 5 | 58 | W C2IS R | | -0.53 | -0.45 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |
| 6 | 58 | W C2IS R | | -1.77 | -1.50 | 1.00 |
| 0.85 | 1.00 | | -0.18 | | | |

| | | | | | | | | |
|------|---------------|------|------|------|------|------|------|------|
| 4 | D+.6W | C1IP | L | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 5 | D+.6W | C1IP | R | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 6 | D+.6W | C1IS | L | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 7 | D+.6W | C1IS | R | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 8 | D+.6W | C2IP | L | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 9 | D+.6W | C2IP | R | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 10 | D+.6W | C2IS | L | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 11 | D+.6W | C2IS | R | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 1.00 | 0.00 | 0.00 | 0 | |
| 12 | D+.7E | LC | | | 0.70 | 1.63 | 1.63 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 1.63 | 0.00 | 1.63 | 0 | |
| 13 | D+.7E | RC | | | 0.70 | 1.63 | 1.63 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 1.63 | 0.00 | 1.63 | 0 | |
| 14 | D+.7Em | LC | | | 0.70 | 1.63 | 1.63 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 1.63 | 0.00 | 1.63 | 6 | |
| 15 | D+.7Em | RC | | | 0.70 | 1.63 | 1.63 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 1.63 | 0.00 | 1.63 | 6 | |
| 16 | D+.75Lfr+.45W | C1IP | L | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |
| 17 | D+.75Lfr+.45W | C1IP | R | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |
| 18 | D+.75Lfr+.45W | C1IS | L | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |
| 19 | D+.75Lfr+.45W | C1IS | R | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |
| 20 | D+.75Lfr+.45W | C2IP | L | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |
| 21 | D+.75Lfr+.45W | C2IP | R | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Ld | Load | Floor | | | Combo | Coll | Dead | Live |
|-------|--------------------------|-------|-------|-------|-------|------|------|-------|
| | | Unbal | Floor | Floor | | | | |
| Num | Description | Snow | Wind | Seis | Beam | Beam | Coll | Usage |
| | | | | | | | | |
| | | | | Dead | Live | Dead | | |
| ===== | | | | | | | | |
| ===== | | | | | | | | |
| 22 | D+.75Lfr+.45W C2IS L | | | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 23 | D+.75Lfr+.45W C2IS R | | | | 1.00 | 1.00 | 0.00 | 0.75 |
| 0.00 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 24 | D+.75Lf+.45W+.75S C1IP L | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 25 | D+.75Lf+.45W+.75S C1IP R | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 26 | D+.75Lf+.45W+.75S C1IS L | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 27 | D+.75Lf+.45W+.75S C1IS R | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 28 | D+.75Lf+.45W+.75S C2IP L | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 29 | D+.75Lf+.45W+.75S C2IP R | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 30 | D+.75Lf+.45W+.75S C2IS L | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 31 | D+.75Lf+.45W+.75S C2IS R | | | | 1.00 | 1.00 | 0.00 | 0.00 |
| 0.75 | | 0.00 | 0.45 | 0.00 | 1.00 | 0.75 | 0.00 | 0 |
| 32 | D+.525E+.75Lf+.75S LC | | | | 0.53 | 2.11 | 2.11 | 0.00 |
| 1.43 | | 0.00 | 0.00 | 1.00 | 2.11 | 1.43 | 2.11 | 0 |
| 33 | D+.525E+.75Lf+.75S RC | | | | 0.53 | 2.11 | 2.11 | 0.00 |
| 1.43 | | 0.00 | 0.00 | 1.00 | 2.11 | 1.43 | 2.11 | 0 |
| 34 | D+.525Em+.75Lf+.75S LC | | | | 0.53 | 2.11 | 2.11 | 0.00 |
| 1.43 | | 0.00 | 0.00 | 1.00 | 2.11 | 1.43 | 2.11 | 6 |
| 35 | D+.525Em+.75Lf+.75S RC | | | | 0.53 | 2.11 | 2.11 | 0.00 |
| 1.43 | | 0.00 | 0.00 | 1.00 | 2.11 | 1.43 | 2.11 | 6 |
| 36 | 0.6D+.6W C1IP L | | | | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |

| | | | | | | | |
|------|-----------|------|------|------|------|------|------|
| 37 | 0.6D+.6W | C1IP | R | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 38 | 0.6D+.6W | C1IS | L | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 39 | 0.6D+.6W | C1IS | R | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 40 | 0.6D+.6W | C2IP | L | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 41 | 0.6D+.6W | C2IP | R | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 42 | 0.6D+.6W | C2IS | L | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 43 | 0.6D+.6W | C2IS | R | 1.00 | 0.60 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.60 | 0.00 | 0.60 | 0.00 | 0.00 | 0 |
| 44 | 0.6D+.7E | LT | | 0.70 | 0.66 | 0.66 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.66 | 0.00 | 0.66 | 0 |
| 45 | 0.6D+.7E | RT | | 0.70 | 0.66 | 0.66 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.66 | 0.00 | 0.66 | 0 |
| 46 | 0.6D+.7Em | LT | | 0.70 | 0.66 | 0.66 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.66 | 0.00 | 0.66 | 6 |
| 47 | 0.6D+.7Em | RT | | 0.70 | 0.66 | 0.66 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.66 | 0.00 | 0.66 | 6 |
| 48 | D | | | 1.00 | 1.00 | 1.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 | 1 |
| 49 | L | | | 1.00 | 0.00 | 0.00 | 1.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 1 |
| 50 | S | | | 1.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 51 | W | C1IP | L | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 52 | W | C1IP | R | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 53 | W | C1IS | L | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 54 | W | C1IS | R | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 55 | W | C2IP | L | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 56 | W | C2IP | R | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 57 | W | C2IS | L | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 58 | W | C2IS | R | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1 |
| 59 | E | L | | 1.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1 |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Ld | Load | | | | | | | | | | | | | |
|-------|----------------|------|-------|-------|------|--------|-------|------|------|--|--|--|--|--|
| Unbal | | | Floor | Floor | Beam | | | | | | | | | |
| Num | Description | | | | | Factor | Dead | Dead | Live | | | | | |
| Snow | Snow | Wind | Seis | Beam | Beam | Coll | Usage | | | | | | | |
| | | | | Dead | Live | Dead | | | | | | | | |
| 60 | E R | | | | | 1.00 | 0.00 | 0.00 | 0.00 | | | | | |
| 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1 | | | | | | | |
| 61 | SECOND ORDER L | | | | | 1.00 | 1.00 | 1.00 | 1.00 | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0 | | | | | | | |
| 62 | SECOND ORDER R | | | | | 1.00 | 1.00 | 1.00 | 1.00 | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0 | | | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

FLANGE PROPERTIES - WELDED PLATE

| Point Kc Loc (in) | Extremity Rt | Width (in) | Thick (in) | UBR (in) | Cb | Class |
|----------------------------|-----------------|---------------|---------------|-------------|----|-------|
|----------------------------|-----------------|---------------|---------------|-------------|----|-------|

| | | | | | | |
|-----------------|-------|------|--------|-------|------|---|
| Member Number 1 | | | | | | |
| 0.00 | Left | 5.00 | 0.2500 | 23.50 | 1.00 | 2 |
| 0.46 | 1.34 | | | | | |
| | Right | 5.00 | 0.3750 | 95.50 | 1.00 | 1 |
| 0.46 | 1.40 | | | | | |
| 2.37 | Left | 5.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.42 | 1.32 | | | | | |
| | Right | 5.00 | 0.3750 | 95.50 | 1.00 | 1 |
| 0.42 | 1.38 | | | | | |
| 4.73 | Left | 5.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.39 | 1.29 | | | | | |
| | Right | 5.00 | 0.3750 | 95.50 | 1.00 | 1 |
| 0.39 | 1.37 | | | | | |
| 7.10 | Left | 5.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.36 | 1.27 | | | | | |
| | Right | 5.00 | 0.3750 | 95.50 | 1.00 | 1 |
| 0.36 | 1.35 | | | | | |
| 9.46 | Left | 5.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.35 | 1.25 | | | | | |
| | Right | 5.00 | 0.3750 | 48.00 | 1.00 | 1 |
| 0.35 | 1.34 | | | | | |
| 11.83 | Left | 5.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.35 | 1.23 | | | | | |
| | Right | 5.00 | 0.3750 | 48.00 | 1.00 | 1 |
| 0.35 | 1.32 | | | | | |

| | | | | | | |
|-----------------|-------|------|--------|-------|------|---|
| Member Number 3 | | | | | | |
| 0.76 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.38 | 1.46 | | | | | |
| | Right | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.38 | 1.46 | | | | | |

| | | | | | | |
|-------|-------|------|--------|--------|------|---|
| 4.73 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.39 | 1.48 | | | | | |
| | Right | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.39 | 1.48 | | | | | |
| 8.70 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.40 | 1.49 | | | | | |
| | Right | 6.00 | 0.2500 | 116.42 | 1.00 | 2 |
| 0.40 | 1.49 | | | | | |
| 12.68 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.41 | 1.50 | | | | | |
| | Right | 6.00 | 0.2500 | 116.42 | 1.00 | 2 |
| 0.41 | 1.50 | | | | | |
| 16.65 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.43 | 1.51 | | | | | |
| | Right | 6.00 | 0.2500 | 116.42 | 1.00 | 2 |
| 0.43 | 1.51 | | | | | |
| 20.63 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.44 | 1.52 | | | | | |
| | Right | 6.00 | 0.2500 | 116.42 | 1.00 | 2 |
| 0.44 | 1.52 | | | | | |
| 24.60 | Left | 6.00 | 0.2500 | 58.21 | 1.00 | 2 |
| 0.45 | 1.54 | | | | | |
| | Right | 6.00 | 0.2500 | 116.42 | 1.00 | 2 |
| 0.45 | 1.54 | | | | | |
| 28.58 | Left | 6.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.47 | 1.55 | | | | | |
| | Right | 6.00 | 0.2500 | 24.00 | 1.00 | 2 |
| 0.47 | 1.55 | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

FORCE DEPENDENT PROPERTIES

| [Point | | AXIAL | | SHEAR | | |
|-----------------|--|--------|--------|--------|--------|--------|
| MOMENT | | Pr | Pa | Vr | Va | Mr |
| Mem Loc. Load | | | | | | |
| Ma CSR | | | | | | |
| Num (ft) Num. | | (kips) | (kips) | (kips) | (kips) | (k-ft) |
| (k-ft) | | | | | | |
| 1 0.000 62 | | 10.51 | 69.77 | -6.73 | 18.34 | 0.00 |
| 27.70 0.37 | | | | | | |
| 2.365 62 | | 10.51 | 74.14 | -6.73 | 15.25 | 16.08 |
| 40.23 0.47 | | | | | | |
| 4.731 62 | | 10.51 | 78.51 | -6.73 | 13.06 | 32.06 |
| 48.06 0.73 | | | | | | |
| 7.096 62 | | 10.51 | 78.72 | -6.73 | 11.41 | 48.00 |
| 56.18 0.92 | | | | | | |
| 9.461 62 | | 10.51 | 87.26 | -6.73 | 10.14 | 63.93 |
| 77.49 0.89 | | | | | | |
| 11.826 62 | | 10.51 | 91.64 | -6.73 | 9.12 | 79.84 |
| 87.70 0.97* | | | | | | |
| 2 0.000 61 | | 10.51 | 69.77 | -6.73 | 18.34 | 0.00 |
| 32.69 0.37 | | | | | | |
| 2.365 61 | | 10.51 | 74.14 | -6.73 | 15.25 | 16.08 |
| 40.23 0.47 | | | | | | |
| 4.731 61 | | 10.51 | 78.51 | -6.73 | 13.06 | 32.06 |
| 48.06 0.73 | | | | | | |
| 7.096 61 | | 10.51 | 78.72 | -6.73 | 11.41 | 48.00 |
| 56.18 0.92 | | | | | | |
| 9.461 61 | | 10.51 | 87.26 | -6.73 | 10.14 | 63.93 |
| 77.49 0.89 | | | | | | |
| 11.826 61 | | 10.51 | 91.64 | -6.73 | 9.12 | 79.84 |
| 87.70 0.97* | | | | | | |
| 3 0.756 62 | | 7.73 | 82.99 | 8.81 | 24.82 | 82.15 |
| 103.33 0.84* | | | | | | |
| 4.730 62 | | 7.60 | 78.89 | 7.47 | 26.03 | 48.50 |

| | | | | | | |
|----------------|------|-------|-------|-------|--------|--|
| 98.40 0.54 | | | | | | |
| 8.705 62 | 7.48 | 74.11 | 6.14 | 27.36 | 20.17 | |
| 75.54 0.32 | | | | | | |
| 12.679 62 | 7.35 | 68.59 | 4.80 | 28.84 | -2.82 | |
| 71.24 0.17 | | | | | | |
| 16.654 61 | 7.21 | 62.23 | 3.28 | 30.48 | -22.82 | |
| 68.01 0.39 | | | | | | |
| 20.628 61 | 7.09 | 54.90 | 1.94 | 32.33 | -34.24 | |
| 63.48 0.60 | | | | | | |
| 24.603 61 | 6.96 | 47.63 | 0.60 | 34.41 | -40.14 | |
| 59.02 0.75 | | | | | | |
| 28.577 62 | 6.85 | 40.96 | -0.55 | 36.21 | -40.42 | |
| 65.39 0.70 | | | | | | |
| 4 0.756 61 | 7.73 | 82.99 | 8.81 | 24.82 | 82.15 | |
| 103.33 0.84* | | | | | | |
| 4.730 61 | 7.60 | 78.89 | 7.47 | 26.03 | 48.50 | |
| 98.40 0.54 | | | | | | |
| 8.705 61 | 7.48 | 74.11 | 6.14 | 27.36 | 20.17 | |
| 75.54 0.32 | | | | | | |
| 12.679 61 | 7.35 | 68.59 | 4.80 | 28.84 | -2.83 | |
| 71.24 0.17 | | | | | | |
| 16.654 62 | 7.21 | 62.23 | 3.28 | 30.48 | -22.82 | |
| 68.01 0.39 | | | | | | |
| 20.628 62 | 7.09 | 54.90 | 1.94 | 32.33 | -34.24 | |
| 63.48 0.60 | | | | | | |
| 24.603 62 | 6.96 | 47.63 | 0.60 | 34.41 | -40.14 | |
| 59.02 0.75 | | | | | | |
| 28.577 61 | 6.85 | 40.96 | -0.55 | 36.21 | -40.42 | |
| 65.39 0.70 | | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

 FORCE DEPENDENT PROPERTIES - USER DEFINED

| Mem | Point | Loc | Load | P | V | Mom | Load |
|--------|---------|--------|---------|---------|---------|------|------|
| Num | (ft) | Num. | (kips) | (kips) | (k-ft) | Num. | |
| (kips) | (kips) | (k-ft) | | | | | |
| 5 | 0.000 | 1 | -0.0190 | -0.5245 | -0.4060 | 2 | - |
| 0.0036 | -0.0977 | | -0.0756 | | | | |
| | | 3 | -0.0036 | -0.0977 | -0.0756 | 4 | - |
| 0.0034 | 0.8260 | | 0.6394 | | | | |
| | | 5 | -0.0035 | 0.1788 | 0.1384 | 6 | - |
| 0.0036 | 0.8260 | | 0.6394 | | | | |
| | | 7 | -0.0035 | 0.1788 | 0.1384 | 8 | - |
| 0.0036 | 0.8260 | | 0.6394 | | | | |
| | | 9 | -0.0034 | 0.1788 | 0.1384 | 10 | - |
| 0.0035 | 0.8260 | | 0.6394 | | | | |
| | | 11 | -0.0033 | 0.1788 | 0.1384 | 12 | - |
| 0.0039 | -0.1115 | | -0.0863 | | | | |
| | | 13 | -0.0041 | -0.1115 | -0.0863 | 16 | - |
| 0.0150 | 0.2751 | | 0.2129 | | | | |
| | | 17 | -0.0151 | -0.2103 | -0.1628 | 18 | - |
| 0.0150 | 0.2751 | | 0.2130 | | | | |
| | | 19 | -0.0150 | -0.2103 | -0.1628 | 20 | - |
| 0.0151 | 0.2751 | | 0.2129 | | | | |
| | | 21 | -0.0151 | -0.2103 | -0.1628 | 22 | - |
| 0.0150 | 0.2751 | | 0.2129 | | | | |
| | | 23 | -0.0150 | -0.2103 | -0.1628 | 24 | - |
| 0.0036 | 0.5951 | | 0.4607 | | | | |
| | | 25 | -0.0035 | 0.1097 | 0.0849 | 26 | - |
| 0.0035 | 0.5951 | | 0.4607 | | | | |
| | | 27 | -0.0035 | 0.1097 | 0.0850 | 28 | - |
| 0.0035 | 0.5951 | | 0.4607 | | | | |
| | | 29 | -0.0034 | 0.1097 | 0.0850 | 30 | - |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Analysis | | | | | | | |
|----------|--------|-----|--------|---------|--------|--------|------|
| Mem | Point | Loc | Load | P | V | Mom | Load |
| P | V | | Mom | | | | |
| Num | (ft) | | Num. | (kips) | (kips) | (k-ft) | Num. |
| (kips) | (kips) | | (k-ft) | | | | |
| 5 | 1.548 | | 1 | -0.0001 | 0.0000 | 0.0000 | 2 |
| 0.0000 | 0.0000 | | 3 | 0.0000 | 0.0000 | 0.0000 | 4 |
| 0.0001 | 0.0000 | | 5 | 0.0000 | 0.0000 | 0.0000 | 6 |
| 0.0001 | 0.0000 | | 7 | 0.0000 | 0.0000 | 0.0000 | 8 |
| 0.0000 | 0.0000 | | 9 | 0.0001 | 0.0000 | 0.0000 | 10 |
| 0.0000 | 0.0000 | | 11 | 0.0002 | 0.0000 | 0.0000 | 12 |
| 0.0001 | 0.0000 | | 13 | -0.0001 | 0.0000 | 0.0000 | 16 |
| 0.0000 | 0.0000 | | 17 | -0.0001 | 0.0000 | 0.0000 | 18 |
| 0.0000 | 0.0000 | | 19 | 0.0001 | 0.0000 | 0.0000 | 20 |
| 0.0001 | 0.0000 | | 21 | 0.0000 | 0.0000 | 0.0000 | 22 |
| 0.0000 | 0.0000 | | 23 | 0.0000 | 0.0000 | 0.0000 | 24 |
| 0.0001 | 0.0000 | | 25 | 0.0000 | 0.0000 | 0.0000 | 26 |
| 0.0001 | 0.0000 | | 27 | 0.0000 | 0.0000 | 0.0000 | 28 |
| 0.0000 | 0.0000 | | 29 | 0.0001 | 0.0000 | 0.0000 | 30 |
| 0.0001 | 0.0000 | | 31 | 0.0000 | 0.0000 | 0.0000 | 32 |
| 0.0001 | 0.0000 | | | | | | |

| | | | | | | | |
|--------|--------|--------|---------|--------|--------|----|--|
| | | 33 | -0.0001 | 0.0000 | 0.0000 | 36 | |
| 0.0002 | 0.0000 | 0.0000 | | | | | |
| | | 37 | 0.0000 | 0.0000 | 0.0000 | 38 | |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | 39 | 0.0000 | 0.0000 | 0.0000 | 40 | |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | 41 | 0.0000 | 0.0000 | 0.0000 | 42 | |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | 43 | 0.0000 | 0.0000 | 0.0000 | 44 | |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | 45 | -0.0001 | 0.0000 | 0.0000 | 61 | |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | 62 | -0.0001 | 0.0000 | 0.0000 | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Analysis | | | | | | | |
|----------|-----------|---------|---------|---------|---------|------|---|
| Mem | Point Loc | Load | P | V | Mom | Load | |
| P | V | Mom | | | | Num. | |
| Num | (ft) | Num. | (kips) | (kips) | (k-ft) | Num. | |
| (kips) | (kips) | (k-ft) | | | | | |
| 6 | 0.000 | 1 | -0.0187 | -0.5245 | -0.4060 | 2 | - |
| 0.0035 | -0.0977 | -0.0757 | | | | | |
| | | 3 | -0.0035 | -0.0977 | -0.0757 | 4 | - |
| 0.0035 | 0.1788 | 0.1384 | | | | | |
| | | 5 | -0.0037 | 0.8260 | 0.6394 | 6 | - |
| 0.0035 | 0.1788 | 0.1384 | | | | | |
| | | 7 | -0.0037 | 0.8260 | 0.6394 | 8 | - |
| 0.0036 | 0.1788 | 0.1384 | | | | | |
| | | 9 | -0.0035 | 0.8260 | 0.6394 | 10 | - |
| 0.0036 | 0.1788 | 0.1384 | | | | | |
| | | 11 | -0.0036 | 0.8260 | 0.6394 | 12 | - |
| 0.0040 | -0.1115 | -0.0863 | | | | | |
| | | 13 | -0.0040 | -0.1115 | -0.0863 | 16 | - |
| 0.0151 | -0.2103 | -0.1628 | | | | | |
| | | 17 | -0.0150 | 0.2751 | 0.2129 | 18 | - |
| 0.0150 | -0.2103 | -0.1628 | | | | | |
| | | 19 | -0.0151 | 0.2751 | 0.2129 | 20 | - |
| 0.0150 | -0.2103 | -0.1628 | | | | | |
| | | 21 | -0.0150 | 0.2751 | 0.2129 | 22 | - |
| 0.0150 | -0.2103 | -0.1628 | | | | | |
| | | 23 | -0.0149 | 0.2750 | 0.2129 | 24 | - |
| 0.0035 | 0.1097 | 0.0850 | | | | | |
| | | 25 | -0.0035 | 0.5951 | 0.4607 | 26 | - |
| 0.0035 | 0.1097 | 0.0850 | | | | | |
| | | 27 | -0.0035 | 0.5951 | 0.4607 | 28 | - |
| 0.0034 | 0.1097 | 0.0850 | | | | | |
| | | 29 | -0.0036 | 0.5951 | 0.4607 | 30 | - |
| 0.0036 | 0.1097 | 0.0850 | | | | | |
| | | 31 | -0.0034 | 0.5951 | 0.4607 | 32 | - |
| 0.0040 | -0.1081 | -0.0837 | | | | | |

| | | | | | | | |
|--------|---------|---------|---------|---------|---------|----|---|
| | | 33 | -0.0039 | -0.1081 | -0.0837 | 36 | - |
| 0.0021 | 0.2179 | 0.1687 | | | | | |
| | | 37 | -0.0022 | 0.8651 | 0.6697 | 38 | - |
| 0.0021 | 0.2179 | 0.1687 | | | | | |
| | | 39 | -0.0021 | 0.8651 | 0.6697 | 40 | - |
| 0.0020 | 0.2179 | 0.1687 | | | | | |
| | | 41 | -0.0021 | 0.8651 | 0.6697 | 42 | - |
| 0.0023 | 0.2179 | 0.1687 | | | | | |
| | | 43 | -0.0021 | 0.8651 | 0.6697 | 44 | - |
| 0.0015 | -0.0450 | -0.0348 | | | | | |
| | | 45 | -0.0018 | -0.0450 | -0.0348 | 61 | - |
| 0.0187 | -0.5245 | -0.4060 | | | | | |
| | | 62 | -0.0189 | -0.5245 | -0.4060 | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Analysis | | | | | | | |
|----------|-----------|--------|---------|--------|--------|------|---|
| Mem | Point Loc | Load | P | V | Mom | Load | |
| P | V | Mom | | | | | |
| Num | (ft) | Num. | (kips) | (kips) | (k-ft) | Num. | |
| (kips) | (kips) | (k-ft) | | | | | |
| 6 | 1.548 | 1 | 0.0002 | 0.0000 | 0.0000 | 2 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 3 | 0.0000 | 0.0000 | 0.0000 | 4 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 5 | -0.0001 | 0.0000 | 0.0000 | 6 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 7 | -0.0001 | 0.0000 | 0.0000 | 8 | - |
| 0.0001 | 0.0000 | | 0.0000 | | | | |
| | | 9 | 0.0000 | 0.0000 | 0.0000 | 10 | - |
| 0.0001 | 0.0000 | | 0.0000 | | | | |
| | | 11 | -0.0001 | 0.0000 | 0.0000 | 12 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 13 | 0.0000 | 0.0000 | 0.0000 | 16 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 17 | 0.0000 | 0.0000 | 0.0000 | 18 | |
| 0.0001 | 0.0000 | | 0.0000 | | | | |
| | | 19 | 0.0000 | 0.0000 | 0.0000 | 20 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 21 | 0.0001 | 0.0000 | 0.0000 | 22 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 23 | 0.0002 | 0.0000 | 0.0000 | 24 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 25 | 0.0000 | 0.0000 | 0.0000 | 26 | |
| 0.0000 | 0.0000 | | 0.0000 | | | | |
| | | 27 | 0.0000 | 0.0000 | 0.0000 | 28 | |
| 0.0001 | 0.0000 | | 0.0000 | | | | |
| | | 29 | -0.0001 | 0.0000 | 0.0000 | 30 | - |
| 0.0001 | 0.0000 | | 0.0000 | | | | |
| | | 31 | 0.0001 | 0.0000 | 0.0000 | 32 | - |
| 0.0001 | 0.0000 | | 0.0000 | | | | |

| | | | | | | | |
|--------|--------|--------|----|---------|--------|--------|----|
| | | | 33 | 0.0000 | 0.0000 | 0.0000 | 36 |
| 0.0000 | 0.0000 | 0.0000 | | | | | |
| | | | 37 | -0.0001 | 0.0000 | 0.0000 | 38 |
| 0.0001 | 0.0000 | 0.0000 | | | | | |
| | | | 39 | 0.0000 | 0.0000 | 0.0000 | 40 |
| 0.0001 | 0.0000 | 0.0000 | | | | | |
| | | | 41 | 0.0000 | 0.0000 | 0.0000 | 42 |
| 0.0002 | 0.0000 | 0.0000 | | | | | |
| | | | 43 | 0.0001 | 0.0000 | 0.0000 | 44 |
| 0.0001 | 0.0000 | 0.0000 | | | | | |
| | | | 45 | -0.0002 | 0.0000 | 0.0000 | 61 |
| 0.0001 | 0.0000 | 0.0000 | | | | | |
| | | | 62 | 0.0000 | 0.0000 | 0.0000 | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

PROPERTIES OF FULL SECTION - SECTION PROPERTIES - WELDED PLATE

| CM Mem (ksi) Num | Point F'e Loc (ft) | Area (in^2) | Ix (in^4) | Rx (in) | Ry (in) | Kx | Lx (in) |
|---------------------------|-----------------------------|----------------|--------------|------------|------------|------|------------|
| 1.00 | 0.00 | 4.465 | 92.0 | 4.54 | 1.21 | 1.24 | 151.17 |
| 1.00 | 27.409 | | | | | | |
| 1.00 | 2.37 | 4.745 | 136.8 | 5.37 | 1.17 | 1.48 | 151.17 |
| 1.00 | 25.794 | | | | | | |
| 1.00 | 4.73 | 5.025 | 191.9 | 6.18 | 1.14 | 1.73 | 151.17 |
| 1.00 | 24.358 | | | | | | |
| 1.00 | 7.10 | 5.305 | 257.9 | 6.97 | 1.11 | 1.97 | 151.17 |
| 1.00 | 23.074 | | | | | | |
| 1.00 | 9.46 | 5.585 | 335.5 | 7.75 | 1.08 | 2.21 | 151.17 |
| 1.00 | 50.000 | | | | | | |
| 1.00 | 11.83 | 5.865 | 425.1 | 8.51 | 1.05 | 2.46 | 151.17 |
| 1.00 | 50.000 | | | | | | |
| 1.00 | 0.76 | 6.834 | 454.8 | 8.16 | 1.15 | 1.20 | 685.82 |
| 1.00 | 16.842 | | | | | | |
| 1.00 | 4.73 | 6.652 | 407.2 | 7.82 | 1.16 | 1.20 | 685.82 |
| 1.00 | 15.492 | | | | | | |
| 1.00 | 8.70 | 6.469 | 362.8 | 7.49 | 1.18 | 1.20 | 685.82 |
| 1.00 | 14.190 | | | | | | |
| 1.00 | 12.68 | 6.287 | 321.4 | 7.15 | 1.20 | 1.20 | 685.82 |
| 1.00 | 12.934 | | | | | | |
| 1.00 | 16.65 | 6.105 | 282.9 | 6.81 | 1.21 | 1.20 | 685.82 |
| 1.00 | 11.727 | | | | | | |
| 1.00 | 20.63 | 5.923 | 247.4 | 6.46 | 1.23 | 1.20 | 685.82 |
| 1.00 | 10.569 | | | | | | |
| 1.00 | 24.60 | 5.741 | 214.6 | 6.11 | 1.25 | 1.20 | 685.82 |
| 1.00 | 9.460 | | | | | | |
| 1.00 | 28.58 | 5.559 | 184.6 | 5.76 | 1.27 | 1.20 | 685.82 |
| 1.00 | 8.402 | | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

 PROPERTIES OF FULL SECTION - WEB GEOMETRY - WELDED PLATE

| Mem Num | Point Loc (ft) | Height (in) | Thick (in) | Shear Stiff Space (in) |
|------------|----------------------|----------------|---------------|---------------------------------|
| 1 | 0.00 | 10.00 | 0.1340 | 151.26 |
| | 2.37 | 12.09 | 0.1340 | 151.26 |
| | 4.73 | 14.18 | 0.1340 | 151.26 |
| | 7.10 | 16.27 | 0.1340 | 151.26 |
| | 9.46 | 18.36 | 0.1340 | 151.26 |
| | 11.83 | 20.45 | 0.1340 | 151.26 |
| 3 | 0.76 | 20.45 | 0.1875 | 342.92 |
| | 4.73 | 19.47 | 0.1875 | 342.92 |
| | 8.70 | 18.50 | 0.1875 | 342.92 |
| | 12.68 | 17.53 | 0.1875 | 342.92 |
| | 16.65 | 16.56 | 0.1875 | 342.92 |
| | 20.63 | 15.59 | 0.1875 | 342.92 |
| | 24.60 | 14.62 | 0.1875 | 342.92 |
| | 28.58 | 13.65 | 0.1875 | 342.92 |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

JOINT LOADS

| | | MAGNITUDES | | |
|-----|---------------------------|------------|------------|----------|
| Ld | Load | Joint | Horizontal | Vertical |
| Num | Moment Description (k-ft) | Num | (kips) | (kips) |
| 12 | D+.7E LC | 2 | 0.7969 | 0.0000 |
| | 0.0000 | 5 | 0.7969 | 0.0000 |
| | 0.0000 | | | |
| 13 | D+.7E RC | 2 | -0.7969 | 0.0000 |
| | 0.0000 | 5 | -0.7969 | 0.0000 |
| | 0.0000 | | | |
| 14 | D+.7Em LC | 2 | 1.8391 | 0.0000 |
| | 0.0000 | 5 | 1.8391 | 0.0000 |
| | 0.0000 | | | |
| 15 | D+.7Em RC | 2 | -1.8391 | 0.0000 |
| | 0.0000 | 5 | -1.8391 | 0.0000 |
| | 0.0000 | | | |
| 32 | D+.525E+.75Lf+.75S LC | 2 | 0.5977 | 0.0000 |
| | 0.0000 | 5 | 0.5977 | 0.0000 |
| | 0.0000 | | | |
| 33 | D+.525E+.75Lf+.75S RC | 2 | -0.5977 | 0.0000 |
| | 0.0000 | 5 | -0.5977 | 0.0000 |
| | 0.0000 | | | |

| | | | | | | | |
|----|------------------------|--|---|--|---------|--|------------------|
| 34 | D+.525Em+.75Lf+.75S LC | | 2 | | 1.3793 | | 0.0000 |
| | 0.0000 | | | | 5 | | 1.3793 0.0000 |
| | 0.0000 | | | | | | |
| 35 | D+.525Em+.75Lf+.75S RC | | 2 | | -1.3793 | | 0.0000 |
| | 0.0000 | | | | 5 | | -1.3793 0.0000 |
| | 0.0000 | | | | | | |
| 44 | 0.6D+.7E LT | | 2 | | 0.7969 | | 0.0000 |
| | 0.0000 | | | | 5 | | 0.7969 0.0000 |
| | 0.0000 | | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| | | MAGNITUDES | | |
|-----|---------------------------|------------|------------|----------|
| Ld | Load | Joint | Horizontal | Vertical |
| Num | Moment Description (k-ft) | Num | (kips) | (kips) |
| 45 | 0.6D+.7E RT | 2 | -0.7969 | 0.0000 |
| | 0.0000 | 5 | -0.7969 | 0.0000 |
| | 0.0000 | | | |
| 46 | 0.6D+.7Em LT | 2 | 1.8391 | 0.0000 |
| | 0.0000 | 5 | 1.8391 | 0.0000 |
| | 0.0000 | | | |
| 47 | 0.6D+.7Em RT | 2 | -1.8391 | 0.0000 |
| | 0.0000 | 5 | -1.8391 | 0.0000 |
| | 0.0000 | | | |
| 59 | E L | 2 | 1.1385 | 0.0000 |
| | 0.0000 | 5 | 1.1385 | 0.0000 |
| | 0.0000 | | | |
| 60 | E R | 2 | -1.1385 | 0.0000 |
| | 0.0000 | 5 | -1.1385 | 0.0000 |
| | 0.0000 | | | |
| 61 | SECOND ORDER L | 2 | 0.2137 | 0.0000 |
| | 0.0000 | 5 | 0.2137 | 0.0000 |
| | 0.0000 | | | |
| 62 | SECOND ORDER R | 2 | -0.2137 | 0.0000 |
| | 0.0000 | | | |

| 0.0000 |

| 5 | -0.2137 | 0.0000

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 PROJECT: 60' X 90' X 14' BUILDING
 FRAME: Frame Number 1

FORCES ACTING ON SUPPORTS

LOAD SIGN KEY:

| | |
|--|--|
| HORIZONTAL POSITIVE SUPPORT ARE PUSHING | THE FRAME MEMBER OR MEMBERS AT THE TOWARD THE RIGHT SIDEWALL |
| HORIZONTAL NEGATIVE SUPPORT ARE PUSHING | THE FRAME MEMBER OR MEMBERS AT THE TOWARD THE LEFT SIDEWALL |
| VERTICAL POSITIVE SUPPORT ARE PUSHING | THE FRAME MEMBER OR MEMBERS AT THE DOWNWARDS AGAINST THE FOUNDATION |
| VERTICAL NEGATIVE SUPPORT ARE PULLING | THE FRAME MEMBER OR MEMBERS AT THE UPWARDS ON THE FOUNDATION |
| MOMENT POSITIVE SUPPORT ARE | THE FRAME MEMBER OR MEMBERS AT THE ATTEMPTING TO ROTATE CLOCKWISE ABOUT THE |
| SUPPORT MOMENT NEGATIVE SUPPORT ARE | THE FRAME MEMBER OR MEMBERS AT THE ATTEMPTING TO ROTATE COUNTERCLOCKWISE |
| ABOUT THE SUPPORT | |

| Moment (kips) | Load Description (k-ft) | Support Number | Horizontal (kips) | Vertical |
|------------------|----------------------------|-------------------|----------------------|----------|
| D+Lfr 0.000 | | 1 | -6.875 | 10.176 |
| D+Lfr 0.000 | | 6 | 6.875 | 10.176 |
| | Total Forces Applied: | | 0.000 | 20.352 |
| 0.000 | | | | |
| D+S | | 1 | -1.281 | 1.896 |

| | | | |
|--------------|-----------------------|--------|---------|
| 0.000 | | | |
| D+S | 6 | 1.281 | 1.896 |
| 0.000 | | | |
| | Total Forces Applied: | 0.000 | 3.792 |
| 0.000 | | | |
| D+.75Lf+.75S | 1 | -1.281 | 1.896 |
| 0.000 | | | |
| D+.75Lf+.75S | 6 | 1.281 | 1.896 |
| 0.000 | | | |
| | Total Forces Applied: | 0.000 | 3.792 |
| 0.000 | | | |
| D+.6W C1IP L | 1 | 4.565 | -6.813 |
| 0.000 | | | |
| D+.6W C1IP L | 6 | -1.945 | -4.157 |
| 0.000 | | | |
| | Total Forces Applied: | 2.620 | -10.970 |
| 0.000 | | | |
| D+.6W C1IP R | 1 | 1.945 | -4.157 |
| 0.000 | | | |
| D+.6W C1IP R | 6 | -4.565 | -6.813 |
| 0.000 | | | |
| | Total Forces Applied: | -2.620 | -10.970 |
| 0.000 | | | |
| D+.6W C1IS L | 1 | 2.933 | -3.361 |
| 0.000 | | | |
| D+.6W C1IS L | 6 | -0.312 | -0.704 |
| 0.000 | | | |
| | Total Forces Applied: | 2.621 | -4.065 |
| 0.000 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Moment (kips) | Load Description (k-ft) | Support Number | Horizontal (kips) | Vertical |
|------------------|----------------------------|-------------------|----------------------|----------|
| 0.000 | D+.6W C1IS R | 1 | 0.312 | -0.704 |
| 0.000 | D+.6W C1IS R | 6 | -2.933 | -3.361 |
| 0.000 | Total Forces Applied: | | -2.621 | -4.065 |
| 0.000 | D+.6W C2IP L | 1 | 1.951 | -6.493 |
| 0.000 | D+.6W C2IP L | 6 | -2.260 | -4.477 |
| 0.000 | Total Forces Applied: | | -0.310 | -10.970 |
| 0.000 | D+.6W C2IP R | 1 | 2.260 | -4.477 |
| 0.000 | D+.6W C2IP R | 6 | -1.951 | -6.493 |
| 0.000 | Total Forces Applied: | | 0.310 | -10.970 |
| 0.000 | D+.6W C2IS L | 1 | 0.319 | -3.041 |
| 0.000 | D+.6W C2IS L | 6 | -0.628 | -1.023 |
| 0.000 | Total Forces Applied: | | -0.309 | -4.065 |
| 0.000 | D+.6W C2IS R | 1 | 0.628 | -1.023 |
| 0.000 | D+.6W C2IS R | 6 | -0.319 | -3.041 |
| 0.000 | Total Forces Applied: | | 0.309 | -4.065 |

| | | | |
|-----------------------|---|--------|--------|
| D+.7E LC | 1 | -0.665 | 1.816 |
| 0.000 | | | |
| D+.7E LC | 6 | 2.258 | 2.511 |
| 0.000 | | | |
| Total Forces Applied: | | 1.594 | 4.326 |
| 0.000 | | | |
| D+.7E RC | 1 | -2.258 | 2.511 |
| 0.000 | | | |
| D+.7E RC | 6 | 0.665 | 1.816 |
| 0.000 | | | |
| Total Forces Applied: | | -1.594 | 4.326 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IP L | 1 | -1.095 | 1.672 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IP L | 6 | 3.059 | 3.664 |
| 0.000 | | | |
| Total Forces Applied: | | 1.965 | 5.336 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IP R | 1 | -3.059 | 3.664 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IP R | 6 | 1.095 | 1.672 |
| 0.000 | | | |
| Total Forces Applied: | | -1.965 | 5.336 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IS L | 1 | -2.318 | 4.261 |
| 0.000 | | | |
| D+.75Lfr+.45W C1IS L | 6 | 4.283 | 6.253 |
| 0.000 | | | |
| Total Forces Applied: | | 1.965 | 10.514 |
| 0.000 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Load Description Moment (kips) (k-ft) | Support Number | Horizontal (kips) | Vertical |
|--|-------------------|----------------------|----------|
| D+.75Lfr+.45W C1IS R 0.000 | 1 | -4.283 | 6.253 |
| D+.75Lfr+.45W C1IS R 0.000 | 6 | 2.318 | 4.261 |
| Total Forces Applied: | | -1.965 | 10.514 |
| 0.000 | | | |
| D+.75Lfr+.45W C2IP L 0.000 | 1 | -3.055 | 1.911 |
| D+.75Lfr+.45W C2IP L 0.000 | 6 | 2.823 | 3.425 |
| Total Forces Applied: | | -0.232 | 5.336 |
| 0.000 | | | |
| D+.75Lfr+.45W C2IP R 0.000 | 1 | -2.823 | 3.425 |
| D+.75Lfr+.45W C2IP R 0.000 | 6 | 3.055 | 1.911 |
| Total Forces Applied: | | 0.232 | 5.336 |
| 0.000 | | | |
| D+.75Lfr+.45W C2IS L 0.000 | 1 | -4.279 | 4.501 |
| D+.75Lfr+.45W C2IS L 0.000 | 6 | 4.046 | 6.014 |
| Total Forces Applied: | | -0.232 | 10.514 |
| 0.000 | | | |
| D+.75Lfr+.45W C2IS R 0.000 | 1 | -4.046 | 6.014 |
| D+.75Lfr+.45W C2IS R 0.000 | 6 | 4.279 | 4.501 |
| Total Forces Applied: | | 0.232 | 10.514 |
| 0.000 | | | |

| | | | |
|--------------------------|---|--------|--------|
| D+.75Lf+.45W+.75S C1IP L | 1 | 3.102 | -4.628 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IP L | 6 | -1.138 | -2.636 |
| 0.000 | | | |
| Total Forces Applied: | | 1.965 | -7.265 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IP R | 1 | 1.138 | -2.636 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IP R | 6 | -3.102 | -4.628 |
| 0.000 | | | |
| Total Forces Applied: | | -1.965 | -7.265 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IS L | 1 | 1.878 | -2.039 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IS L | 6 | 0.086 | -0.047 |
| 0.000 | | | |
| Total Forces Applied: | | 1.965 | -2.086 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IS R | 1 | -0.086 | -0.047 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C1IS R | 6 | -1.878 | -2.039 |
| 0.000 | | | |
| Total Forces Applied: | | -1.965 | -2.086 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C2IP L | 1 | 1.142 | -4.389 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C2IP L | 6 | -1.374 | -2.876 |
| 0.000 | | | |
| Total Forces Applied: | | -0.232 | -7.265 |
| 0.000 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Load Description Moment (kips) (k-ft) | Support Number | Horizontal (kips) | Vertical |
|--|-------------------|----------------------|----------|
| D+.75Lf+.45W+.75S C2IP R 0.000 | 1 | 1.374 | -2.876 |
| D+.75Lf+.45W+.75S C2IP R 0.000 | 6 | -1.142 | -4.389 |
| Total Forces Applied: | | 0.232 | -7.265 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C2IS L 0.000 | 1 | -0.082 | -1.800 |
| D+.75Lf+.45W+.75S C2IS L 0.000 | 6 | -0.150 | -0.286 |
| Total Forces Applied: | | -0.232 | -2.086 |
| 0.000 | | | |
| D+.75Lf+.45W+.75S C2IS R 0.000 | 1 | 0.150 | -0.286 |
| D+.75Lf+.45W+.75S C2IS R 0.000 | 6 | 0.082 | -1.800 |
| Total Forces Applied: | | 0.232 | -2.086 |
| 0.000 | | | |
| D+.525E+.75Lf+.75S LC 0.000 | 1 | -0.819 | 1.836 |
| D+.525E+.75Lf+.75S LC 0.000 | 6 | 2.014 | 2.358 |
| Total Forces Applied: | | 1.195 | 4.194 |
| 0.000 | | | |
| D+.525E+.75Lf+.75S RC 0.000 | 1 | -2.014 | 2.358 |
| D+.525E+.75Lf+.75S RC 0.000 | 6 | 0.819 | 1.836 |
| Total Forces Applied: | | -1.195 | 4.194 |
| 0.000 | | | |

| | | | |
|-----------------------|---|--------|---------|
| 0.6D+.6W C1IP L | 1 | 5.078 | -7.583 |
| 0.000 | | | |
| 0.6D+.6W C1IP L | 6 | -2.457 | -4.927 |
| 0.000 | | | |
| Total Forces Applied: | | 2.620 | -12.510 |
| 0.000 | | | |
| 0.6D+.6W C1IP R | 1 | 2.458 | -4.927 |
| 0.000 | | | |
| 0.6D+.6W C1IP R | 6 | -5.078 | -7.583 |
| 0.000 | | | |
| Total Forces Applied: | | -2.620 | -12.510 |
| 0.000 | | | |
| 0.6D+.6W C1IS L | 1 | 3.446 | -4.131 |
| 0.000 | | | |
| 0.6D+.6W C1IS L | 6 | -0.825 | -1.474 |
| 0.000 | | | |
| Total Forces Applied: | | 2.621 | -5.604 |
| 0.000 | | | |
| 0.6D+.6W C1IS R | 1 | 0.825 | -1.474 |
| 0.000 | | | |
| 0.6D+.6W C1IS R | 6 | -3.445 | -4.131 |
| 0.000 | | | |
| Total Forces Applied: | | -2.620 | -5.604 |
| 0.000 | | | |
| 0.6D+.6W C2IP L | 1 | 2.464 | -7.263 |
| 0.000 | | | |
| 0.6D+.6W C2IP L | 6 | -2.773 | -5.247 |
| 0.000 | | | |
| Total Forces Applied: | | -0.310 | -12.510 |
| 0.000 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Load Description Moment (kips) (k-ft) | Support Number | Horizontal (kips) | Vertical |
|--|-------------------|----------------------|----------|
| 0.6D+.6W C2IP R 0.000 | 1 | 2.773 | -5.247 |
| 0.6D+.6W C2IP R 0.000 | 6 | -2.464 | -7.263 |
| Total Forces Applied: | | 0.310 | -12.510 |
| 0.6D+.6W C2IS L 0.000 | 1 | 0.832 | -3.811 |
| 0.6D+.6W C2IS L 0.000 | 6 | -1.141 | -1.793 |
| Total Forces Applied: | | -0.309 | -5.604 |
| 0.6D+.6W C2IS R 0.000 | 1 | 1.141 | -1.793 |
| 0.6D+.6W C2IS R 0.000 | 6 | -0.832 | -3.811 |
| Total Forces Applied: | | 0.309 | -5.604 |
| 0.6D+.7E LT 0.000 | 1 | 0.207 | 0.526 |
| 0.6D+.7E LT 0.000 | 6 | 1.387 | 1.220 |
| Total Forces Applied: | | 1.594 | 1.746 |
| 0.6D+.7E RT 0.000 | 1 | -1.387 | 1.220 |
| 0.6D+.7E RT 0.000 | 6 | -0.207 | 0.526 |
| Total Forces Applied: | | -1.594 | 1.746 |

| | | | |
|----------|-----------------------|--------|---------|
| D | 1 | -1.281 | 1.896 |
| 0.000 | | | |
| D | 6 | 1.281 | 1.896 |
| 0.000 | | | |
| | Total Forces Applied: | 0.000 | 3.792 |
| 0.000 | | | |
| L | 1 | -5.594 | 8.280 |
| 0.000 | | | |
| L | 6 | 5.594 | 8.280 |
| 0.000 | | | |
| | Total Forces Applied: | 0.000 | 16.560 |
| 0.000 | | | |
| S | 1 | 0.000 | 0.000 |
| 0.000 | | | |
| S | 6 | 0.000 | 0.000 |
| 0.000 | | | |
| | Total Forces Applied: | 0.000 | 0.000 |
| 0.000 | | | |
| W C1IP L | 1 | 9.745 | -14.564 |
| 0.000 | | | |
| W C1IP L | 6 | -5.377 | -10.136 |
| 0.000 | | | |
| | Total Forces Applied: | 4.368 | -24.700 |
| 0.000 | | | |
| W C1IP R | 1 | 5.377 | -10.136 |
| 0.000 | | | |
| W C1IP R | 6 | -9.745 | -14.564 |
| 0.000 | | | |
| | Total Forces Applied: | -4.367 | -24.700 |
| 0.000 | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| Moment (kips) | Load Description (k-ft) | Support Number | Horizontal (kips) | Vertical |
|------------------|----------------------------|-------------------|----------------------|----------|
| 0.000 | W C1IS L | 1 | 7.026 | -8.811 |
| 0.000 | W C1IS L | 6 | -2.658 | -4.383 |
| 0.000 | Total Forces Applied: | | 4.368 | -13.193 |
| 0.000 | W C1IS R | 1 | 2.658 | -4.383 |
| 0.000 | W C1IS R | 6 | -7.026 | -8.810 |
| 0.000 | Total Forces Applied: | | -4.368 | -13.193 |
| 0.000 | W C2IP L | 1 | 5.388 | -14.031 |
| 0.000 | W C2IP L | 6 | -5.904 | -10.668 |
| 0.000 | Total Forces Applied: | | -0.516 | -24.700 |
| 0.000 | W C2IP R | 1 | 5.904 | -10.668 |
| 0.000 | W C2IP R | 6 | -5.388 | -14.031 |
| 0.000 | Total Forces Applied: | | 0.516 | -24.700 |
| 0.000 | W C2IS L | 1 | 2.669 | -8.278 |
| 0.000 | W C2IS L | 6 | -3.185 | -4.915 |
| 0.000 | Total Forces Applied: | | -0.516 | -13.193 |

| | | | |
|----------------|-----------------------|--------|---------|
| W C2IS R | 1 | 3.185 | -4.915 |
| 0.000 | | | |
| W C2IS R | 6 | -2.669 | -8.278 |
| 0.000 | | | |
| | Total Forces Applied: | 0.516 | -13.193 |
| 0.000 | | | |
| E L | 1 | 1.138 | -0.496 |
| 0.000 | | | |
| E L | 6 | 1.138 | 0.496 |
| 0.000 | | | |
| | Total Forces Applied: | 2.277 | 0.000 |
| 0.000 | | | |
| E R | 1 | -1.138 | 0.496 |
| 0.000 | | | |
| E R | 6 | -1.138 | -0.496 |
| 0.000 | | | |
| | Total Forces Applied: | -2.277 | 0.000 |
| 0.000 | | | |
| SECOND ORDER L | 1 | -6.661 | 10.083 |
| 0.000 | | | |
| SECOND ORDER L | 6 | 7.088 | 10.269 |
| 0.000 | | | |
| | Total Forces Applied: | 0.427 | 20.352 |
| 0.000 | | | |
| SECOND ORDER R | 1 | -7.089 | 10.269 |
| 0.000 | | | |
| SECOND ORDER R | 6 | 6.661 | 10.083 |
| 0.000 | | | |
| | Total Forces Applied: | -0.427 | 20.352 |
| 0.000 | | | |

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FRAME: Frame Number 1

EXTERNAL MEMBER LOADS

| CONCENTRATED | | UNIFORM | | | |
|--------------|----------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 1 | D+Lfr | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+S | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.75S | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP L | 0.063 | 0.074 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP R | 0.063 | -0.158 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS L | 0.063 | 0.196 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS R | 0.063 | -0.037 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IP L | 0.063 | -0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IP R | 0.063 | -0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IS L | 0.063 | -0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IS R | 0.063 | -0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.7E LC | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.7E RC | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IP L | 0.27 | 0.056 | 0.00 | 0.00 |

| | | | | | | |
|------|------|--------------------|------|---|--|-------------------------|
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IP | R | | 0.27 -0.119 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IS | L | | 0.27 0.147 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IS | R | | 0.27 -0.028 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IP | L | | 0.27 -0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IP | R | | 0.27 -0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IS | L | | 0.27 -0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IS | R | | 0.27 -0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IP | L | | 0.063 0.056 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IP | R | | 0.063 -0.119 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IS | L | | 0.063 0.147 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IS | R | | 0.063 -0.028 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C2IP | L | | 0.063 -0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C2IP | R | | 0.063 -0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C2IS | L | | 0.063 -0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C2IS | R | | 0.063 -0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.525E+.75Lf+.75S | LC | | | 0.00 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.525E+.75Lf+.75S | RC | | | 0.00 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |

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PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 1 | 0.6D+.6W C1IP L | 0.038 | 0.074 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IP R | 0.038 | -0.158 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS L | 0.038 | 0.196 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS R | 0.038 | -0.037 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP L | 0.038 | -0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP R | 0.038 | -0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS L | 0.038 | -0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS R | 0.038 | -0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.7E LT | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.7E RT | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | SECOND ORDER L | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | SECOND ORDER R | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 2 | D+Lfr | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+S | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.75S | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | |
|------|------|--|----------------------|--|-------|-------------------|
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C1IP L | | 0.063 | 0.158 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C1IP R | | 0.063 | -0.074 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C1IS L | | 0.063 | 0.037 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C1IS R | | 0.063 | -0.196 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C2IP L | | 0.063 | 0.212 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C2IP R | | 0.063 | 0.212 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C2IS L | | 0.063 | 0.091 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.6W C2IS R | | 0.063 | 0.091 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.7E LC | | 0.00 | 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.7E RC | | 0.00 | 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C1IP L | | 0.27 | 0.119 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C1IP R | | 0.27 | -0.056 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C1IS L | | 0.27 | 0.028 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C1IS R | | 0.27 | -0.147 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C2IP L | | 0.27 | 0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C2IP R | | 0.27 | 0.159 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C2IS L | | 0.27 | 0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | | D+.75Lfr+.45W C2IS R | | 0.27 | 0.068 0.00 0.00 |
| 0.00 | 0.00 | | | | | |

Loomis Building Systems
 3485 A Swetzer Road
 Loomis, CA, 95650
 916-652-6268
 Frame Design Report

Page 33

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|--------------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 2 | D+.75Lf+.45W+.75S C1IP L | 0.063 | 0.119 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IP R | 0.063 | -0.056 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS L | 0.063 | 0.028 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS R | 0.063 | -0.147 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP L | 0.063 | 0.159 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP R | 0.063 | 0.159 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS L | 0.063 | 0.068 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS R | 0.063 | 0.068 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.525E+.75Lf+.75S LC | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.525E+.75Lf+.75S RC | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IP L | 0.038 | 0.158 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IP R | 0.038 | -0.074 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS L | 0.038 | 0.037 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS R | 0.038 | -0.196 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP L | 0.038 | 0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

| | | | | | |
|------|-----------------|--------|--------|------|------|
| 0.00 | 0.6D+.6W C2IP R | 0.038 | 0.212 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IS L | 0.038 | 0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IS R | 0.038 | 0.091 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.7E LT | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.7E RT | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER L | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER R | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 3 D+Lfr | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.75S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IP L | -0.23 | -0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IP R | -0.122 | -0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IS L | -0.109 | -0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IS R | -0.001 | -0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IP L | -0.23 | -0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IP R | -0.122 | -0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IS L | -0.109 | -0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IS R | -0.001 | -0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

Loomis Building Systems
 3485 A Swetzer Road
 Loomis, CA, 95650
 916-652-6268
 Frame Design Report

Page 34

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|--------------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 3 | D+.7E LC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.7E RC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IP L | 0.05 | -0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IP R | 0.131 | -0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IS L | 0.141 | -0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IS R | 0.222 | -0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IP L | 0.05 | -0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IP R | 0.131 | -0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IS L | 0.141 | -0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IS R | 0.222 | -0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IP L | -0.157 | -0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IP R | -0.076 | -0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS L | -0.066 | -0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS R | 0.015 | -0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP L | -0.157 | -0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

| | | | | | |
|------|--------------------------|--------|--------|------|------|
| 0.00 | D+.75Lf+.45W+.75S C2IP R | -0.076 | -0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IS L | -0.066 | -0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IS R | 0.015 | -0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.525E+.75Lf+.75S LC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.525E+.75Lf+.75S RC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IP L | -0.255 | -0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IP R | -0.148 | -0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IS L | -0.134 | -0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IS R | -0.026 | -0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IP L | -0.255 | -0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IP R | -0.148 | -0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IS L | -0.134 | -0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C2IS R | -0.026 | -0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.7E LT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.7E RT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER L | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER R | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 4 D+Lfr | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

Loomis Building Systems
 3485 A Swetzer Road
 Loomis, CA, 95650
 916-652-6268
 Frame Design Report

Page 35

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|----------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 4 | D+S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.75S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP L | -0.122 | 0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP R | -0.23 | 0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS L | -0.001 | 0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS R | -0.109 | 0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IP L | -0.122 | 0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IP R | -0.23 | 0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IS L | -0.001 | 0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C2IS R | -0.109 | 0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.7E LC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.7E RC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IP L | 0.131 | 0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IP R | 0.05 | 0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IS L | 0.222 | 0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

| | | | | | |
|------|--------------------------|--------|-------|------|------|
| 0.00 | D+.75Lfr+.45W C1IS R | 0.141 | 0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C2IP L | 0.131 | 0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C2IP R | 0.05 | 0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C2IS L | 0.222 | 0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C2IS R | 0.141 | 0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C1IP L | -0.076 | 0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C1IP R | -0.157 | 0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C1IS L | 0.015 | 0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C1IS R | -0.066 | 0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IP L | -0.076 | 0.139 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IP R | -0.157 | 0.22 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IS L | 0.015 | 0.048 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lf+.45W+.75S C2IS R | -0.066 | 0.129 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.525E+.75Lf+.75S LC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.525E+.75Lf+.75S RC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IP L | -0.148 | 0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IP R | -0.255 | 0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IS L | -0.026 | 0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 0.6D+.6W C1IS R | -0.134 | 0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

Loomis Building Systems
 3485 A Swetzer Road
 Loomis, CA, 95650
 916-652-6268
 Frame Design Report

Page 36

Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 4 | 0.6D+.6W C2IP L | -0.148 | 0.185 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP R | -0.255 | 0.293 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS L | -0.026 | 0.064 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS R | -0.134 | 0.172 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.7E LT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.7E RT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | SECOND ORDER L | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | SECOND ORDER R | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 5 | D+Lfr | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.75S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP L | -0.533 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IP R | -0.115 | -0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS L | -0.533 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.6W C1IS R | -0.115 | -0.179 | 0.00 | 0.00 |

| | | | | | | |
|------|------|-------------------|------|---|--|--------------------------|
| 0.00 | 0.00 | | | | | |
| | | D+.6W | C2IP | L | | -0.533 -0.597 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.6W | C2IP | R | | -0.115 -0.179 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.6W | C2IS | L | | -0.533 -0.597 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.6W | C2IS | R | | -0.115 -0.179 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.7E | LC | | | 0.072 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.7E | RC | | | 0.072 0.00 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IP | L | | -0.177 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IP | R | | 0.136 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IS | L | | -0.177 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C1IS | R | | 0.136 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IP | L | | -0.177 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IP | R | | 0.136 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IS | L | | -0.177 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lfr+.45W | C2IS | R | | 0.136 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IP | L | | -0.384 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IP | R | | -0.071 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IS | L | | -0.384 -0.448 0.00 0.00 |
| 0.00 | 0.00 | | | | | |
| | | D+.75Lf+.45W+.75S | C1IS | R | | -0.071 -0.134 0.00 0.00 |
| 0.00 | 0.00 | | | | | |

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 3485 A Swetzer Road
 Loomis, CA, 95650
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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|--------------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 5 | D+.75Lf+.45W+.75S C2IP L | -0.384 | -0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP R | -0.071 | -0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS L | -0.384 | -0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS R | -0.071 | -0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.525E+.75Lf+.75S LC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.525E+.75Lf+.75S RC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IP L | -0.559 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IP R | -0.141 | -0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS L | -0.559 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C1IS R | -0.141 | -0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP L | -0.559 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IP R | -0.141 | -0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS L | -0.559 | -0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.6W C2IS R | -0.141 | -0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | 0.6D+.7E LT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

| | | | | | |
|------|----------------------|--------|-------|------|------|
| 0.00 | 0.6D+.7E RT | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER L | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | SECOND ORDER R | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | 6 D+Lfr | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.75S | 0.063 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IP L | -0.115 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IP R | -0.533 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IS L | -0.115 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C1IS R | -0.533 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IP L | -0.115 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IP R | -0.533 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IS L | -0.115 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.6W C2IS R | -0.533 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.7E LC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.7E RC | 0.072 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C1IP L | 0.136 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| 0.00 | D+.75Lfr+.45W C1IP R | -0.177 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

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Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| CONCENTRATED | | UNIFORM | | | |
|--------------|--------------------------|---------|--------|------|--------|
| Mem | | Vert | Horiz | Loc | Vert |
| Horiz | Mom | | | | |
| Num | Load Description | (k/ft) | (k/ft) | (ft) | (kips) |
| (kips) | (k-ft) | | | | |
| 6 | D+.75Lfr+.45W C1IS L | 0.136 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C1IS R | -0.177 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IP L | 0.136 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IP R | -0.177 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IS L | 0.136 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lfr+.45W C2IS R | -0.177 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IP L | -0.071 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IP R | -0.384 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS L | -0.071 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C1IS R | -0.384 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP L | -0.071 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IP R | -0.384 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS L | -0.071 | 0.134 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.75Lf+.45W+.75S C2IS R | -0.384 | 0.448 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |
| | D+.525E+.75Lf+.75S LC | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | |

| | | | | | | |
|------|-----------------------|--|--------|-------|------|------|
| 0.00 | D+.525E+.75Lf+.75S RC | | 0.07 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C1IP L | | -0.141 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C1IP R | | -0.559 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C1IS L | | -0.141 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C1IS R | | -0.559 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C2IP L | | -0.141 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C2IP R | | -0.559 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C2IS L | | -0.141 | 0.179 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.6W C2IS R | | -0.559 | 0.597 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.7E LT | | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | 0.6D+.7E RT | | 0.029 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | SECOND ORDER L | | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |
| 0.00 | SECOND ORDER R | | 0.339 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | | | | | |

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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM
 PROJECT: 60' X 90' X 14' BUILDING
 FRAME: Frame Number 1

END TRANSLATIONS

TRANSLATION DIRECTION KEY:

HORZ POSITIVE JOINT MOVEMENT TOWARD RIGHT SIDEWALL
 HORZ NEGATIVE JOINT MOVEMENT TOWARD LEFT SIDEWALL
 VERT POSITIVE JOINT MOVEMENT UP
 VERT NEGATIVE JOINT MOVEMENT DOWN

| FINAL JOINT | | | INITIAL JOINT | | |
|-------------|------------------|------|---------------|-------|-------|
| Mem | Joint | Vert | Joint | Vert | Horiz |
| Num | Load Description | (in) | Num | (in) | (in) |
| 1 | D+Lfr | | 1 | 0.000 | 0.000 |
| -0.004 | -0.199 | | 1 | 0.000 | 0.000 |
| | D+S | | 1 | 0.000 | 0.000 |
| -0.001 | -0.037 | | 1 | 0.000 | 0.000 |
| | D+.75Lf+.75S | | 1 | 0.000 | 0.000 |
| -0.001 | -0.037 | | 1 | 0.000 | 0.000 |
| | D+.6W C1IP L | | 1 | 0.000 | 0.000 |
| 0.000 | 0.205 | | 1 | 0.000 | 0.000 |
| | D+.6W C1IP R | | 1 | 0.000 | 0.000 |
| 0.005 | -0.008 | | 1 | 0.000 | 0.000 |
| | D+.6W C1IS L | | 1 | 0.000 | 0.000 |
| -0.001 | 0.142 | | 1 | 0.000 | 0.000 |
| | D+.6W C1IS R | | 1 | 0.000 | 0.000 |
| 0.003 | -0.071 | | 1 | 0.000 | 0.000 |
| | D+.6W C2IP L | | 1 | 0.000 | 0.000 |
| 0.010 | -0.092 | | 1 | 0.000 | 0.000 |
| | D+.6W C2IP R | | 1 | 0.000 | 0.000 |
| -0.005 | 0.269 | | 1 | 0.000 | 0.000 |
| | D+.6W C2IS L | | 1 | 0.000 | 0.000 |
| 0.008 | -0.155 | | 1 | 0.000 | 0.000 |

| | | | | |
|--------------------------|---|-------|-------|---|
| D+.6W C2IS R | 1 | 0.000 | 0.000 | 2 |
| -0.006 0.206 | | | | |
| D+.7E LC | 1 | 0.000 | 0.000 | 2 |
| -0.010 0.239 | | | | |
| D+.7E RC | 1 | 0.000 | 0.000 | 2 |
| 0.009 -0.324 | | | | |
| D+.75Lfr+.45W C1IP L | 1 | 0.000 | 0.000 | 2 |
| -0.002 0.023 | | | | |
| D+.75Lfr+.45W C1IP R | 1 | 0.000 | 0.000 | 2 |
| 0.001 -0.136 | | | | |
| | | | | |
| D+.75Lfr+.45W C1IS L | 1 | 0.000 | 0.000 | 2 |
| -0.003 -0.024 | | | | |
| D+.75Lfr+.45W C1IS R | 1 | 0.000 | 0.000 | 2 |
| 0.000 -0.184 | | | | |
| D+.75Lfr+.45W C2IP L | 1 | 0.000 | 0.000 | 2 |
| 0.005 -0.199 | | | | |
| D+.75Lfr+.45W C2IP R | 1 | 0.000 | 0.000 | 2 |
| -0.006 0.071 | | | | |
| D+.75Lfr+.45W C2IS L | 1 | 0.000 | 0.000 | 2 |
| 0.004 -0.247 | | | | |
| | | | | |
| D+.75Lfr+.45W C2IS R | 1 | 0.000 | 0.000 | 2 |
| -0.007 0.024 | | | | |
| D+.75Lf+.45W+.75S C1IP L | 1 | 0.000 | 0.000 | 2 |
| 0.000 0.144 | | | | |
| D+.75Lf+.45W+.75S C1IP R | 1 | 0.000 | 0.000 | 2 |
| 0.003 -0.015 | | | | |
| D+.75Lf+.45W+.75S C1IS L | 1 | 0.000 | 0.000 | 2 |
| -0.001 0.097 | | | | |
| D+.75Lf+.45W+.75S C1IS R | 1 | 0.000 | 0.000 | 2 |
| 0.002 -0.062 | | | | |

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| FINAL JOINT | | INITIAL JOINT | | |
|-------------|--------------------------|---------------|-------|-----|
| Mem | Joint | Vert | Horiz | Num |
| Num | Load Description | (in) | (in) | Num |
| (in) | (in) | | | |
| 1 | D+.75Lf+.45W+.75S C2IP L | 0.000 | 0.000 | 2 |
| 0.007 | -0.078 | | | |
| | D+.75Lf+.45W+.75S C2IP R | 0.000 | 0.000 | 2 |
| -0.004 | 0.192 | | | |
| | D+.75Lf+.45W+.75S C2IS L | 0.000 | 0.000 | 2 |
| 0.006 | -0.125 | | | |
| | D+.75Lf+.45W+.75S C2IS R | 0.000 | 0.000 | 2 |
| -0.005 | 0.145 | | | |
| | D+.525E+.75Lf+.75S LC | 0.000 | 0.000 | 2 |
| -0.008 | 0.170 | | | |
| | D+.525E+.75Lf+.75S RC | 0.000 | 0.000 | 2 |
| 0.006 | -0.252 | | | |
| | 0.6D+.6W C1IP L | 0.000 | 0.000 | 2 |
| 0.000 | 0.220 | | | |
| | 0.6D+.6W C1IP R | 0.000 | 0.000 | 2 |
| 0.005 | 0.007 | | | |
| | 0.6D+.6W C1IS L | 0.000 | 0.000 | 2 |
| -0.001 | 0.157 | | | |
| | 0.6D+.6W C1IS R | 0.000 | 0.000 | 2 |
| 0.003 | -0.056 | | | |
| | 0.6D+.6W C2IP L | 0.000 | 0.000 | 2 |
| 0.010 | -0.077 | | | |
| | 0.6D+.6W C2IP R | 0.000 | 0.000 | 2 |
| -0.004 | 0.283 | | | |
| | 0.6D+.6W C2IS L | 0.000 | 0.000 | 2 |
| 0.009 | -0.140 | | | |
| | 0.6D+.6W C2IS R | 0.000 | 0.000 | 2 |
| -0.006 | 0.221 | | | |
| | 0.6D+.7E LT | 0.000 | 0.000 | 2 |
| -0.010 | 0.265 | | | |

| | | | | |
|----------------------|---|-------|-------|---|
| 0.6D+.7E RT | 1 | 0.000 | 0.000 | 2 |
| 0.009 -0.299 | | | | |
| SECOND ORDER L | 1 | 0.000 | 0.000 | 2 |
| -0.006 -0.123 | | | | |
| SECOND ORDER R | 1 | 0.000 | 0.000 | 2 |
| -0.001 -0.274 | | | | |
| 2 D+Lfr | 6 | 0.000 | 0.000 | 5 |
| -0.004 0.199 | | | | |
| D+S | 6 | 0.000 | 0.000 | 5 |
| -0.001 0.037 | | | | |
| D+.75Lfr+.75S | 6 | 0.000 | 0.000 | 5 |
| -0.001 0.037 | | | | |
| D+.6W C1IP L | 6 | 0.000 | 0.000 | 5 |
| 0.005 0.008 | | | | |
| D+.6W C1IP R | 6 | 0.000 | 0.000 | 5 |
| 0.000 -0.205 | | | | |
| D+.6W C1IS L | 6 | 0.000 | 0.000 | 5 |
| 0.003 0.071 | | | | |
| D+.6W C1IS R | 6 | 0.000 | 0.000 | 5 |
| -0.001 -0.142 | | | | |
| D+.6W C2IP L | 6 | 0.000 | 0.000 | 5 |
| -0.005 -0.269 | | | | |
| D+.6W C2IP R | 6 | 0.000 | 0.000 | 5 |
| 0.010 0.092 | | | | |
| D+.6W C2IS L | 6 | 0.000 | 0.000 | 5 |
| -0.006 -0.206 | | | | |
| D+.6W C2IS R | 6 | 0.000 | 0.000 | 5 |
| 0.008 0.155 | | | | |
| D+.7E LC | 6 | 0.000 | 0.000 | 5 |
| 0.009 0.324 | | | | |
| D+.7E RC | 6 | 0.000 | 0.000 | 5 |
| -0.010 -0.239 | | | | |
| D+.75Lfr+.45W C1IP L | 6 | 0.000 | 0.000 | 5 |
| 0.001 0.136 | | | | |
| D+.75Lfr+.45W C1IP R | 6 | 0.000 | 0.000 | 5 |
| -0.002 -0.023 | | | | |

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Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| FINAL JOINT | | | | INITIAL JOINT | | | |
|-------------|--------------------|-------------|-------|---------------|-------|-------|-----|
| Mem | Joint | Vert | Horiz | Joint | Vert | Horiz | Num |
| Num | Load | Description | | Num | (in) | (in) | Num |
| (in) | (in) | | | | | | |
| 2 | D+.75Lfr+.45W | C1IS L | | 6 | 0.000 | 0.000 | 5 |
| 0.000 | 0.184 | | | | | | |
| | D+.75Lfr+.45W | C1IS R | | 6 | 0.000 | 0.000 | 5 |
| -0.003 | 0.024 | | | | | | |
| | D+.75Lfr+.45W | C2IP L | | 6 | 0.000 | 0.000 | 5 |
| -0.006 | -0.071 | | | | | | |
| | D+.75Lfr+.45W | C2IP R | | 6 | 0.000 | 0.000 | 5 |
| 0.005 | 0.199 | | | | | | |
| | D+.75Lfr+.45W | C2IS L | | 6 | 0.000 | 0.000 | 5 |
| -0.007 | -0.024 | | | | | | |
| | D+.75Lfr+.45W | C2IS R | | 6 | 0.000 | 0.000 | 5 |
| 0.004 | 0.247 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IP L | | 6 | 0.000 | 0.000 | 5 |
| 0.003 | 0.015 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IP R | | 6 | 0.000 | 0.000 | 5 |
| 0.000 | -0.144 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IS L | | 6 | 0.000 | 0.000 | 5 |
| 0.002 | 0.062 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IS R | | 6 | 0.000 | 0.000 | 5 |
| -0.001 | -0.097 | | | | | | |
| | D+.75Lf+.45W+.75S | C2IP L | | 6 | 0.000 | 0.000 | 5 |
| -0.004 | -0.192 | | | | | | |
| | D+.75Lf+.45W+.75S | C2IP R | | 6 | 0.000 | 0.000 | 5 |
| 0.007 | 0.078 | | | | | | |
| | D+.75Lf+.45W+.75S | C2IS L | | 6 | 0.000 | 0.000 | 5 |
| -0.005 | -0.145 | | | | | | |
| | D+.75Lf+.45W+.75S | C2IS R | | 6 | 0.000 | 0.000 | 5 |
| 0.006 | 0.125 | | | | | | |
| | D+.525E+.75Lf+.75S | LC | | 6 | 0.000 | 0.000 | 5 |
| 0.006 | 0.252 | | | | | | |

| | | | | |
|-----------------------|---|--------|--------|---|
| D+.525E+.75Lf+.75S RC | 6 | 0.000 | 0.000 | 5 |
| -0.008 -0.170 | | | | |
| 0.6D+.6W C1IP L | 6 | 0.000 | 0.000 | 5 |
| 0.005 -0.007 | | | | |
| 0.6D+.6W C1IP R | 6 | 0.000 | 0.000 | 5 |
| 0.000 -0.220 | | | | |
| 0.6D+.6W C1IS L | 6 | 0.000 | 0.000 | 5 |
| 0.003 0.056 | | | | |
| 0.6D+.6W C1IS R | 6 | 0.000 | 0.000 | 5 |
| -0.001 -0.157 | | | | |
| 0.6D+.6W C2IP L | 6 | 0.000 | 0.000 | 5 |
| -0.004 -0.283 | | | | |
| 0.6D+.6W C2IP R | 6 | 0.000 | 0.000 | 5 |
| 0.010 0.077 | | | | |
| 0.6D+.6W C2IS L | 6 | 0.000 | 0.000 | 5 |
| -0.006 -0.220 | | | | |
| 0.6D+.6W C2IS R | 6 | 0.000 | 0.000 | 5 |
| 0.009 0.140 | | | | |
| 0.6D+.7E LT | 6 | 0.000 | 0.000 | 5 |
| 0.009 0.299 | | | | |
| 0.6D+.7E RT | 6 | 0.000 | 0.000 | 5 |
| -0.010 -0.265 | | | | |
| SECOND ORDER L | 6 | 0.000 | 0.000 | 5 |
| -0.001 0.274 | | | | |
| SECOND ORDER R | 6 | 0.000 | 0.000 | 5 |
| -0.006 0.123 | | | | |
| 3 D+Lfr | 2 | -0.004 | -0.199 | 3 |
| -2.280 0.000 | | | | |
| D+S | 2 | -0.001 | -0.037 | 3 |
| -0.425 0.000 | | | | |
| D+.75Lf+.75S | 2 | -0.001 | -0.037 | 3 |
| -0.425 0.000 | | | | |
| D+.6W C1IP L | 2 | 0.000 | 0.205 | 3 |
| 1.147 0.106 | | | | |
| D+.6W C1IP R | 2 | 0.005 | -0.008 | 3 |
| 1.147 -0.106 | | | | |

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Date 8/6/2019

Time 9:06:26 AM
 PROJECT: 60' X 90' X 14' BUILDING
 FRAME: Frame Number 1

| FINAL JOINT | | INITIAL JOINT | | | |
|-------------|----------------------|---------------|--------|--------|---|
| Mem | Joint | Vert | Horiz | Num | |
| Num | Load Description | (in) | (in) | Num | |
| (in) | (in) | | | | |
| 3 | D+.6W C1IS L | 2 | -0.001 | 0.142 | 3 |
| 0.399 | 0.106 | | | | |
| | D+.6W C1IS R | 2 | 0.003 | -0.071 | 3 |
| 0.399 | -0.106 | | | | |
| | D+.6W C2IP L | 2 | 0.010 | -0.092 | 3 |
| 1.059 | -0.180 | | | | |
| | D+.6W C2IP R | 2 | -0.005 | 0.269 | 3 |
| 1.059 | 0.180 | | | | |
| | D+.6W C2IS L | 2 | 0.008 | -0.155 | 3 |
| 0.311 | -0.180 | | | | |
| | D+.6W C2IS R | 2 | -0.006 | 0.206 | 3 |
| 0.312 | 0.180 | | | | |
| | D+.7E LC | 2 | -0.010 | 0.239 | 3 |
| -0.485 | 0.281 | | | | |
| | D+.7E RC | 2 | 0.009 | -0.324 | 3 |
| -0.485 | -0.281 | | | | |
| | D+.75Lfr+.45W C1IP L | 2 | -0.002 | 0.023 | 3 |
| -0.637 | 0.080 | | | | |
| | D+.75Lfr+.45W C1IP R | 2 | 0.001 | -0.136 | 3 |
| -0.637 | -0.080 | | | | |
| | D+.75Lfr+.45W C1IS L | 2 | -0.003 | -0.024 | 3 |
| -1.198 | 0.080 | | | | |
| | D+.75Lfr+.45W C1IS R | 2 | 0.000 | -0.184 | 3 |
| -1.198 | -0.080 | | | | |
| | D+.75Lfr+.45W C2IP L | 2 | 0.005 | -0.199 | 3 |
| -0.703 | -0.135 | | | | |
| | D+.75Lfr+.45W C2IP R | 2 | -0.006 | 0.071 | 3 |
| -0.703 | 0.135 | | | | |
| | D+.75Lfr+.45W C2IS L | 2 | 0.004 | -0.247 | 3 |
| -1.264 | -0.135 | | | | |

| | | | | |
|--------------------------|---|--------|--------|---|
| D+.75Lfr+.45W C2IS R | 2 | -0.007 | 0.024 | 3 |
| -1.264 0.135 | | | | |
| D+.75Lf+.45W+.75S C1IP L | 2 | 0.000 | 0.144 | 3 |
| 0.754 0.080 | | | | |
| D+.75Lf+.45W+.75S C1IP R | 2 | 0.003 | -0.015 | 3 |
| 0.754 -0.080 | | | | |
| D+.75Lf+.45W+.75S C1IS L | 2 | -0.001 | 0.097 | 3 |
| 0.193 0.080 | | | | |
| D+.75Lf+.45W+.75S C1IS R | 2 | 0.002 | -0.062 | 3 |
| 0.193 -0.080 | | | | |
| D+.75Lf+.45W+.75S C2IP L | 2 | 0.007 | -0.078 | 3 |
| 0.688 -0.135 | | | | |
| D+.75Lf+.45W+.75S C2IP R | 2 | -0.004 | 0.192 | 3 |
| 0.688 0.135 | | | | |
| D+.75Lf+.45W+.75S C2IS L | 2 | 0.006 | -0.125 | 3 |
| 0.127 -0.135 | | | | |
| D+.75Lf+.45W+.75S C2IS R | 2 | -0.005 | 0.145 | 3 |
| 0.127 0.135 | | | | |
| D+.525E+.75Lf+.75S LC | 2 | -0.008 | 0.170 | 3 |
| -0.470 0.211 | | | | |
| D+.525E+.75Lf+.75S RC | 2 | 0.006 | -0.252 | 3 |
| -0.470 -0.211 | | | | |
| 0.6D+.6W C1IP L | 2 | 0.000 | 0.220 | 3 |
| 1.317 0.106 | | | | |
| 0.6D+.6W C1IP R | 2 | 0.005 | 0.007 | 3 |
| 1.317 -0.106 | | | | |
| 0.6D+.6W C1IS L | 2 | -0.001 | 0.157 | 3 |
| 0.569 0.106 | | | | |
| 0.6D+.6W C1IS R | 2 | 0.003 | -0.056 | 3 |
| 0.569 -0.106 | | | | |
| 0.6D+.6W C2IP L | 2 | 0.010 | -0.077 | 3 |
| 1.229 -0.180 | | | | |
| 0.6D+.6W C2IP R | 2 | -0.004 | 0.283 | 3 |
| 1.229 0.180 | | | | |
| 0.6D+.6W C2IS L | 2 | 0.009 | -0.140 | 3 |
| 0.482 -0.180 | | | | |
| 0.6D+.6W C2IS R | 2 | -0.006 | 0.221 | 3 |
| 0.482 0.180 | | | | |

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Time 9:06:26 AM
 PROJECT: 60' X 90' X 14' BUILDING
 FRAME: Frame Number 1

| FINAL JOINT | | INITIAL JOINT | | | |
|-------------|------------------|---------------|--------|--------|---|
| Mem | | Joint | Vert | Horiz | |
| Joint | Vert | | | | |
| Num | Load Description | Num | (in) | (in) | |
| (in) | (in) | | | Num | |
| 3 | 0.6D+.7E LT | 2 | -0.010 | 0.265 | 3 |
| -0.196 | 0.281 | | | | |
| | 0.6D+.7E RT | 2 | 0.009 | -0.299 | 3 |
| -0.196 | -0.281 | | | | |
| | SECOND ORDER L | 2 | -0.006 | -0.123 | 3 |
| -2.280 | 0.075 | | | | |
| | SECOND ORDER R | 2 | -0.001 | -0.274 | 3 |
| -2.280 | -0.075 | | | | |
| 4 | D+Lfr | 5 | -0.004 | 0.199 | 3 |
| -2.280 | 0.000 | | | | |
| | D+S | 5 | -0.001 | 0.037 | 3 |
| -0.425 | 0.000 | | | | |
| | D+.75Lf+.75S | 5 | -0.001 | 0.037 | 3 |
| -0.425 | 0.000 | | | | |
| | D+.6W C1IP L | 5 | 0.005 | 0.008 | 3 |
| 1.147 | 0.106 | | | | |
| | D+.6W C1IP R | 5 | 0.000 | -0.205 | 3 |
| 1.147 | -0.106 | | | | |
| | D+.6W C1IS L | 5 | 0.003 | 0.071 | 3 |
| 0.399 | 0.106 | | | | |
| | D+.6W C1IS R | 5 | -0.001 | -0.142 | 3 |
| 0.399 | -0.106 | | | | |
| | D+.6W C2IP L | 5 | -0.005 | -0.269 | 3 |
| 1.059 | -0.180 | | | | |
| | D+.6W C2IP R | 5 | 0.010 | 0.092 | 3 |
| 1.059 | 0.180 | | | | |
| | D+.6W C2IS L | 5 | -0.006 | -0.206 | 3 |
| 0.311 | -0.180 | | | | |
| | D+.6W C2IS R | 5 | 0.008 | 0.155 | 3 |

| | | | | | |
|--------------------------|--------------------------|---|--------|--------|---|
| 0.312 | 0.180 | | | | |
| D+.7E LC | | 5 | 0.009 | 0.324 | 3 |
| -0.485 | 0.281 | | | | |
| D+.7E RC | | 5 | -0.010 | -0.239 | 3 |
| -0.485 | -0.281 | | | | |
| D+.75Lfr+.45W C1IP L | | 5 | 0.001 | 0.136 | 3 |
| -0.637 | 0.080 | | | | |
| D+.75Lfr+.45W C1IP R | | 5 | -0.002 | -0.023 | 3 |
| -0.637 | -0.080 | | | | |
| | D+.75Lfr+.45W C1IS L | 5 | 0.000 | 0.184 | 3 |
| -1.198 | 0.080 | | | | |
| D+.75Lfr+.45W C1IS R | | 5 | -0.003 | 0.024 | 3 |
| -1.198 | -0.080 | | | | |
| D+.75Lfr+.45W C2IP L | | 5 | -0.006 | -0.071 | 3 |
| -0.703 | -0.135 | | | | |
| D+.75Lfr+.45W C2IP R | | 5 | 0.005 | 0.199 | 3 |
| -0.703 | 0.135 | | | | |
| D+.75Lfr+.45W C2IS L | | 5 | -0.007 | -0.024 | 3 |
| -1.264 | -0.135 | | | | |
| | D+.75Lfr+.45W C2IS R | 5 | 0.004 | 0.247 | 3 |
| -1.264 | 0.135 | | | | |
| D+.75Lf+.45W+.75S C1IP L | | 5 | 0.003 | 0.015 | 3 |
| 0.754 | 0.080 | | | | |
| D+.75Lf+.45W+.75S C1IP R | | 5 | 0.000 | -0.144 | 3 |
| 0.754 | -0.080 | | | | |
| D+.75Lf+.45W+.75S C1IS L | | 5 | 0.002 | 0.062 | 3 |
| 0.193 | 0.080 | | | | |
| D+.75Lf+.45W+.75S C1IS R | | 5 | -0.001 | -0.097 | 3 |
| 0.193 | -0.080 | | | | |
| | D+.75Lf+.45W+.75S C2IP L | 5 | -0.004 | -0.192 | 3 |
| 0.688 | -0.135 | | | | |
| D+.75Lf+.45W+.75S C2IP R | | 5 | 0.007 | 0.078 | 3 |
| 0.688 | 0.135 | | | | |
| D+.75Lf+.45W+.75S C2IS L | | 5 | -0.005 | -0.145 | 3 |
| 0.127 | -0.135 | | | | |
| D+.75Lf+.45W+.75S C2IS R | | 5 | 0.006 | 0.125 | 3 |
| 0.127 | 0.135 | | | | |
| D+.525E+.75Lf+.75S LC | | 5 | 0.006 | 0.252 | 3 |
| -0.470 | 0.211 | | | | |

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Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| FINAL JOINT | | INITIAL JOINT | | |
|-------------|-----------------------|---------------|--------|-----|
| Mem | Joint | Vert | Horiz | Num |
| Num | Load Description | (in) | (in) | Num |
| (in) | (in) | | | |
| 4 | D+.525E+.75Lf+.75S RC | -0.470 | -0.211 | 5 |
| | 0.6D+.6W C1IP L | 1.317 | 0.106 | 5 |
| | 0.6D+.6W C1IP R | 1.317 | -0.106 | 5 |
| | 0.6D+.6W C1IS L | 0.569 | 0.106 | 5 |
| | 0.6D+.6W C1IS R | 0.569 | -0.106 | 5 |
| | 0.6D+.6W C2IP L | 1.229 | -0.180 | 5 |
| | 0.6D+.6W C2IP R | 1.229 | 0.180 | 5 |
| | 0.6D+.6W C2IS L | 0.482 | -0.180 | 5 |
| | 0.6D+.6W C2IS R | 0.482 | 0.180 | 5 |
| | 0.6D+.7E LT | -0.196 | 0.281 | 5 |
| | 0.6D+.7E RT | -0.196 | -0.281 | 5 |
| | SECOND ORDER L | -2.280 | 0.075 | 5 |
| | SECOND ORDER R | -2.280 | -0.075 | 5 |
| 5 | D+Lfr | 0.072 | -0.201 | 2 |
| | D+S | | | 2 |

| | | | | | |
|--------|----------------------|--|---|--------|------------|
| 0.013 | -0.038 | | | | |
| | D+.75Lfr+.75S | | 2 | -0.001 | -0.037 4 |
| 0.013 | -0.038 | | | | |
| | D+.6W C1IP L | | 2 | 0.000 | 0.205 4 |
| -0.036 | 0.206 | | | | |
| | D+.6W C1IP R | | 2 | 0.005 | -0.008 4 |
| -0.034 | -0.007 | | | | |
| | D+.6W C1IS L | | 2 | -0.001 | 0.142 4 |
| -0.014 | 0.142 | | | | |
| | D+.6W C1IS R | | 2 | 0.003 | -0.071 4 |
| -0.012 | -0.070 | | | | |
| | D+.6W C2IP L | | 2 | 0.010 | -0.092 4 |
| -0.042 | -0.090 | | | | |
| | D+.6W C2IP R | | 2 | -0.005 | 0.269 4 |
| -0.018 | 0.269 | | | | |
| | D+.6W C2IS L | | 2 | 0.008 | -0.155 4 |
| -0.020 | -0.154 | | | | |
| | D+.6W C2IS R | | 2 | -0.006 | 0.206 4 |
| 0.004 | 0.205 | | | | |
| | D+.7E LC | | 2 | -0.010 | 0.239 4 |
| 0.028 | 0.238 | | | | |
| | D+.7E RC | | 2 | 0.009 | -0.324 4 |
| 0.002 | -0.324 | | | | |
| | D+.75Lfr+.45W C1IP L | | 2 | -0.002 | 0.023 4 |
| 0.020 | 0.022 | | | | |
| | D+.75Lfr+.45W C1IP R | | 2 | 0.001 | -0.136 4 |
| 0.021 | -0.137 | | | | |
| | D+.75Lfr+.45W C1IS L | | 2 | -0.003 | -0.024 4 |
| 0.037 | -0.025 | | | | |
| | D+.75Lfr+.45W C1IS R | | 2 | 0.000 | -0.184 4 |
| 0.038 | -0.185 | | | | |
| | D+.75Lfr+.45W C2IP L | | 2 | 0.005 | -0.199 4 |
| 0.016 | -0.200 | | | | |
| | D+.75Lfr+.45W C2IP R | | 2 | -0.006 | 0.071 4 |
| 0.034 | 0.070 | | | | |
| | D+.75Lfr+.45W C2IS L | | 2 | 0.004 | -0.247 4 |
| 0.032 | -0.248 | | | | |

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| FINAL JOINT | | INITIAL JOINT | | | |
|-------------|--------------------------|---------------|--------|--------|---|
| Mem | Joint | Vert | Horiz | Num | |
| Num | Load Description | (in) | (in) | Num | |
| (in) | (in) | | | | |
| 5 | D+.75Lfr+.45W C2IS R | 2 | -0.007 | 0.024 | 4 |
| 0.050 | 0.022 | | | | |
| | D+.75Lf+.45W+.75S C1IP L | 2 | 0.000 | 0.144 | 4 |
| -0.024 | 0.145 | | | | |
| | D+.75Lf+.45W+.75S C1IP R | 2 | 0.003 | -0.015 | 4 |
| -0.023 | -0.014 | | | | |
| | D+.75Lf+.45W+.75S C1IS L | 2 | -0.001 | 0.097 | 4 |
| -0.007 | 0.097 | | | | |
| | D+.75Lf+.45W+.75S C1IS R | 2 | 0.002 | -0.062 | 4 |
| -0.006 | -0.062 | | | | |
| | D+.75Lf+.45W+.75S C2IP L | 2 | 0.007 | -0.078 | 4 |
| -0.028 | -0.077 | | | | |
| | D+.75Lf+.45W+.75S C2IP R | 2 | -0.004 | 0.192 | 4 |
| -0.010 | 0.193 | | | | |
| | D+.75Lf+.45W+.75S C2IS L | 2 | 0.006 | -0.125 | 4 |
| -0.011 | -0.125 | | | | |
| | D+.75Lf+.45W+.75S C2IS R | 2 | -0.005 | 0.145 | 4 |
| 0.006 | 0.145 | | | | |
| | D+.525E+.75Lf+.75S LC | 2 | -0.008 | 0.170 | 4 |
| 0.025 | 0.169 | | | | |
| | D+.525E+.75Lf+.75S RC | 2 | 0.006 | -0.252 | 4 |
| 0.005 | -0.252 | | | | |
| | 0.6D+.6W C1IP L | 2 | 0.000 | 0.220 | 4 |
| -0.041 | 0.221 | | | | |
| | 0.6D+.6W C1IP R | 2 | 0.005 | 0.007 | 4 |
| -0.040 | 0.008 | | | | |
| | 0.6D+.6W C1IS L | 2 | -0.001 | 0.157 | 4 |
| -0.019 | 0.157 | | | | |
| | 0.6D+.6W C1IS R | 2 | 0.003 | -0.056 | 4 |
| -0.018 | -0.055 | | | | |

| | | | | |
|-----------------|---|--------|--------|---|
| 0.6D+.6W C2IP L | 2 | 0.010 | -0.077 | 4 |
| -0.047 -0.075 | | | | |
| 0.6D+.6W C2IP R | 2 | -0.004 | 0.283 | 4 |
| -0.023 0.284 | | | | |
| 0.6D+.6W C2IS L | 2 | 0.009 | -0.140 | 4 |
| -0.025 -0.139 | | | | |
| 0.6D+.6W C2IS R | 2 | -0.006 | 0.221 | 4 |
| -0.001 0.220 | | | | |
| 0.6D+.7E LT | 2 | -0.010 | 0.265 | 4 |
| 0.019 0.264 | | | | |
| | | | | |
| 0.6D+.7E RT | 2 | 0.009 | -0.299 | 4 |
| -0.007 -0.298 | | | | |
| SECOND ORDER L | 2 | -0.006 | -0.123 | 4 |
| 0.075 -0.126 | | | | |
| SECOND ORDER R | 2 | -0.001 | -0.274 | 4 |
| 0.068 -0.277 | | | | |
| | | | | |
| 6 D+Lfr | 5 | -0.004 | 0.199 | 7 |
| 0.072 0.201 | | | | |
| D+S | 5 | -0.001 | 0.037 | 7 |
| 0.013 0.037 | | | | |
| D+.75Lf+.75S | 5 | -0.001 | 0.037 | 7 |
| 0.013 0.037 | | | | |
| D+.6W C1IP L | 5 | 0.005 | 0.008 | 7 |
| -0.035 0.007 | | | | |
| D+.6W C1IP R | 5 | 0.000 | -0.205 | 7 |
| -0.036 -0.206 | | | | |
| | | | | |
| D+.6W C1IS L | 5 | 0.003 | 0.071 | 7 |
| -0.012 0.070 | | | | |
| D+.6W C1IS R | 5 | -0.001 | -0.142 | 7 |
| -0.014 -0.142 | | | | |
| D+.6W C2IP L | 5 | -0.005 | -0.269 | 7 |
| -0.018 -0.269 | | | | |
| D+.6W C2IP R | 5 | 0.010 | 0.092 | 7 |
| -0.042 0.090 | | | | |
| D+.6W C2IS L | 5 | -0.006 | -0.206 | 7 |
| 0.004 -0.205 | | | | |

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

| FINAL JOINT | | | | INITIAL JOINT | | | |
|-------------|-------------------|-------------|-------|---------------|--------|--------|-----|
| Mem | Joint | Vert | Horiz | Joint | Vert | Horiz | Mem |
| Num | Load | Description | | Num | (in) | (in) | Num |
| (in) | (in) | | | | | | |
| 6 | D+.6W | C2IS R | | 5 | 0.008 | 0.155 | 7 |
| -0.020 | 0.154 | | | | | | |
| | D+.7E | LC | | 5 | 0.009 | 0.324 | 7 |
| 0.002 | 0.324 | | | | | | |
| | D+.7E | RC | | 5 | -0.010 | -0.239 | 7 |
| 0.028 | -0.238 | | | | | | |
| | D+.75Lfr+.45W | C1IP L | | 5 | 0.001 | 0.136 | 7 |
| 0.021 | 0.137 | | | | | | |
| | D+.75Lfr+.45W | C1IP R | | 5 | -0.002 | -0.023 | 7 |
| 0.020 | -0.022 | | | | | | |
| | D+.75Lfr+.45W | C1IS L | | 5 | 0.000 | 0.184 | 7 |
| 0.038 | 0.185 | | | | | | |
| | D+.75Lfr+.45W | C1IS R | | 5 | -0.003 | 0.024 | 7 |
| 0.037 | 0.025 | | | | | | |
| | D+.75Lfr+.45W | C2IP L | | 5 | -0.006 | -0.071 | 7 |
| 0.034 | -0.070 | | | | | | |
| | D+.75Lfr+.45W | C2IP R | | 5 | 0.005 | 0.199 | 7 |
| 0.016 | 0.200 | | | | | | |
| | D+.75Lfr+.45W | C2IS L | | 5 | -0.007 | -0.024 | 7 |
| 0.050 | -0.022 | | | | | | |
| | D+.75Lfr+.45W | C2IS R | | 5 | 0.004 | 0.247 | 7 |
| 0.032 | 0.248 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IP L | | 5 | 0.003 | 0.015 | 7 |
| -0.023 | 0.014 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IP R | | 5 | 0.000 | -0.144 | 7 |
| -0.024 | -0.145 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IS L | | 5 | 0.002 | 0.062 | 7 |
| -0.006 | 0.062 | | | | | | |
| | D+.75Lf+.45W+.75S | C1IS R | | 5 | -0.001 | -0.097 | 7 |
| -0.007 | -0.097 | | | | | | |

| | | | | |
|--------------------------|---|--------|--------|---|
| D+.75Lf+.45W+.75S C2IP L | 5 | -0.004 | -0.192 | 7 |
| -0.010 -0.193 | | | | |
| D+.75Lf+.45W+.75S C2IP R | 5 | 0.007 | 0.078 | 7 |
| -0.028 0.077 | | | | |
| D+.75Lf+.45W+.75S C2IS L | 5 | -0.005 | -0.145 | 7 |
| 0.006 -0.145 | | | | |
| D+.75Lf+.45W+.75S C2IS R | 5 | 0.006 | 0.125 | 7 |
| -0.011 0.125 | | | | |
| D+.525E+.75Lf+.75S LC | 5 | 0.006 | 0.252 | 7 |
| 0.005 0.252 | | | | |
| D+.525E+.75Lf+.75S RC | 5 | -0.008 | -0.170 | 7 |
| 0.025 -0.169 | | | | |
| 0.6D+.6W C1IP L | 5 | 0.005 | -0.007 | 7 |
| -0.040 -0.008 | | | | |
| 0.6D+.6W C1IP R | 5 | 0.000 | -0.220 | 7 |
| -0.041 -0.221 | | | | |
| 0.6D+.6W C1IS L | 5 | 0.003 | 0.056 | 7 |
| -0.018 0.055 | | | | |
| 0.6D+.6W C1IS R | 5 | -0.001 | -0.157 | 7 |
| -0.019 -0.157 | | | | |
| 0.6D+.6W C2IP L | 5 | -0.004 | -0.283 | 7 |
| -0.023 -0.284 | | | | |
| 0.6D+.6W C2IP R | 5 | 0.010 | 0.077 | 7 |
| -0.047 0.075 | | | | |
| 0.6D+.6W C2IS L | 5 | -0.006 | -0.220 | 7 |
| -0.001 -0.220 | | | | |
| 0.6D+.6W C2IS R | 5 | 0.009 | 0.140 | 7 |
| -0.025 0.139 | | | | |
| 0.6D+.7E LT | 5 | 0.009 | 0.299 | 7 |
| -0.007 0.298 | | | | |
| 0.6D+.7E RT | 5 | -0.010 | -0.265 | 7 |
| 0.019 -0.264 | | | | |
| SECOND ORDER L | 5 | -0.001 | 0.274 | 7 |
| 0.068 0.277 | | | | |
| SECOND ORDER R | 5 | -0.006 | 0.123 | 7 |
| 0.075 0.126 | | | | |

Loomis Building Systems
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 Frame Design Report

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Date 8/6/2019

Time 9:06:26 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME: Frame Number 1

FRAME WEIGHT

| Member Type | Member Number | Length (ft) | Weight (lb) |
|--------------|---------------|-------------|-------------|
| | HAUNCH | 0.0 | 70.2 |
| | Subtotal: | | 70.2 |
| Welded Plate | 1 | 11.8 | 207.7 |
| | 2 | 11.8 | 207.7 |
| | 3 | 27.8 | 586.0 |
| | 4 | 27.8 | 586.0 |
| | Subtotal: | | 1587.4 |
| Generic | 5 | 1.5 | 21.1 |
| | 6 | 1.5 | 21.1 |
| | Subtotal: | | 42.1 |
| | Total Weight: | | 1699.7 |

MATERIAL PROPERTIES

Density (lb/in³): 0.2833
 Modulus of Elasticity (KSI): 29,000

SECTION 3

CONNECTION DESIGN

Loomis Building Systems
3485 A Swetzer Road
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CONNECTION DESIGN

PAGE 1

DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

BASE PLATE CONNECTION PLATE DESIGN AT JOINT 1
SIDEWALL COLUMN, MEMBER 1

SUPPORT TYPE : PINNED BASE

COLUMN

| | | |
|---------|---------------------------------|-------|
| 10.0000 | WEB HEIGHT | (IN) |
| .1340 | WEB THICKNESS | (IN) |
| 5.0000 | OUTSIDE FLANGE WIDTH | (IN) |
| .2500 | OUTSIDE FLANGE THICKNESS | (IN) |
| 5.0000 | INSIDE FLANGE WIDTH | (IN) |
| .3750 | INSIDE FLANGE THICKNESS | (IN) |
| 50.0000 | FLANGE YIELD | (KSI) |
| 50.0000 | WEB YIELD | (KSI) |
| 48.0000 | PIER LENGTH | (IN) |
| 48.0000 | PIER WIDTH | (IN) |
| 2.5000 | CONCRETE COMPRESSIVE STRENGTH | (KSI) |
| 5.0000 | MINIMUM CONNECTION PLATE WIDTH | (IN) |
| 10.6250 | MINIMUM CONNECTION PLATE LENGTH | (IN) |
| 4.0000 | HORIZONTAL BOLT GAUGE | (IN) |
| 4.0000 | VERTICAL BOLT GAUGE | (IN) |

WIND BRACING AXIAL FORCE (KIPS)
2.9203
WIND BRACING SHEAR FORCE (KIPS)
4.7977
COEFFICIENT OF FRICTION (REDUCES APPLIED SHEAR)
.0000

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CONNECTION DESIGN

PAGE 2

DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION AT JOINT 1 MEMBER 1

BASE PLATE CONNECTION PLATE DESIGN AT JOINT 1
 SIDEWALL COLUMN, MEMBER 1

FORCE DEPENDENT ANALYSIS

| | | | |
|------------------|--------------------------------|---------|-----------|
| LOAD DESCRIPTION | | SHEAR | AXIAL |
| 0.6D+.6W CLIP L | (KIPS) | 5.08 | -7.58 |
| | | MINIMUM | ACTUAL |
| RATIO | | | |
| .69 | PLATE THICKNESS (IN) | .3447 | .5000 |
| LOAD DESCRIPTION | | SHEAR | AXIAL |
| SECOND ORDER R | (KIPS) | -7.09 | 10.27 |
| | | APPLIED | ALLOWABLE |
| RATIO | | | |
| .11 | BOLT BEARING (PLATE) (KIPS) | 1.77 | 16.25 |
| LOAD DESCRIPTION | | SHEAR | AXIAL |
| SECOND ORDER R | (KIPS) | -7.09 | 10.27 |
| | | APPLIED | ALLOWABLE |
| RATIO | | | |
| .08 | CONCRETE CRUSHING (KIPS) | 10.27 | 133.88 |
| LOAD DESCRIPTION | | SHEAR | AXIAL |
| SECOND ORDER R | (KIPS) | -7.09 | 10.27 |
| | | APPLIED | ALLOWABLE |
| RATIO | | | |
| .29 | BOLT BEARING (CONCRETE) (KIPS) | 1.77 | 6.05 |
| LOAD DESCRIPTION | | SHEAR | AXIAL |
| SECOND ORDER R | (KIPS) | -7.09 | 10.27 |

| RATIO | | (KIPS) | APPLIED | ALLOWABLE |
|-------|-------------------|--------|---------|-----------|
| .39 | BOLT SHEAR | | 1.77 | 4.51 |
| | LOAD DESCRIPTION | | SHEAR | AXIAL |
| | 0.6D+.6W CLIP L | (KIPS) | 5.08 | -7.58 |
| | | | APPLIED | ALLOWABLE |
| .30 | BOLT TENSION | (KIPS) | 2.63 | 8.75 |
| | LOAD DESCRIPTION | | SHEAR | AXIAL |
| | 0.6D+.6W CLIP L | (KIPS) | 5.08 | -7.58 |
| | | | APPLIED | ALLOWABLE |
| .48 | SHEAR AND TENSION | (KIPS) | 2.63 | 5.47 |
| | LOAD DESCRIPTION | | SHEAR | AXIAL |
| | 0.6D+.6W CLIP L | (KIPS) | 5.08 | -7.58 |
| | | | APPLIED | ALLOWABLE |
| .32 | BOLT BOND | (KIPS) | 2.63 | 8.11 |

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CONNECTION DESIGN

PAGE 3

DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION AT JOINT 1 MEMBER 1
 BASE PLATE CONNECTION PLATE DESIGN AT JOINT 1
 SIDEWALL COLUMN, MEMBER 1

SUMMARY OF CONNECTION

| | | |
|-----------------------------|--|-------|
| BASE PLATE | | |
| WIDTH | | (IN) |
| 6.0000 | | |
| LENGTH | | (IN) |
| 10.6250 | | |
| THICKNESS | | (IN) |
| .5000 | | |
| STEEL YIELD | | (KSI) |
| 50.0000 | | |
| ANCHOR BOLTS | | |
| BOLT MATERIAL | | |
| A307 | | |
| BOLT TYPE | | |
| HOOK | | |
| DESCRIPTION | | |
| AB.75X24 | | |
| DIAMETER | | (IN) |
| .7500 | | |
| LENGTH | | (IN) |
| 24.0000 | | |
| EMBEDMENT | | (IN) |
| 21.5000 | | |
| QUANTITY | | 4 |
| NUMBER OF ROWS OF BOLTS | | 2 |
| NUMBER OF BOLTS IN EACH ROW | | 2 |
| MINIMUM HOOK LENGTH | | (IN) |
| 1.5000 | | |

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CONNECTION DESIGN

PAGE 4

DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION PLATE DESIGN - AISC 10TH EDITION

HAUNCH CONNECTION DESIGN AT JOINT
BETWEEN MEMBERS: 3, 1

2

SUPPORT TYPE : MOMENT - PERPENDICULAR

RAFTER

| | | |
|---------|--------------------------|-------|
| 20.4460 | WEB HEIGHT | (IN) |
| .1875 | WEB THICKNESS | (IN) |
| 6.0000 | OUTSIDE FLANGE WIDTH | (IN) |
| .2500 | OUTSIDE FLANGE THICKNESS | (IN) |
| 6.0000 | INSIDE FLANGE WIDTH | (IN) |
| .2500 | INSIDE FLANGE THICKNESS | (IN) |
| 50.0000 | FLANGE YIELD | (KSI) |
| 50.0000 | WEB YIELD | (KSI) |

COLUMN

| | | |
|---------|---------------------|-------|
| 20.4460 | WEB HEIGHT | (IN) |
| .1340 | WEB THICKNESS | (IN) |
| 5.0000 | INSIDE FLANGE WIDTH | (IN) |
| 50.0000 | WEB YIELD | (KSI) |

WELD STRENGTH (KSI)

| | | |
|---------|----------------------------------|------|
| 70.0000 | MAX. THICKNESS FOR 4-BOLT DESIGN | (IN) |
|---------|----------------------------------|------|

1.0000
MAX. BOLT DIAMETER FOR 4-BOLT DESIGN (IN)

1.0000
ALLOWABLE OVERSTRESS

1.0000
HORIZONTAL BOLT GAUGE (GA4) (IN)

3.5000
VERTICAL BOLT GAUGE (GA3) (IN)

3.0000
HOLES ARE PUNCHED

CONTROLLING FLANGE IS THE TOP FLANGE

MINIMUM CONNECTION PLATE WIDTH (IN)

6.0000
MINIMUM CONNECTION PLATE YIELD (KSI)

50.0000

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CONNECTION DESIGN

PAGE 5

DATE 8/ 6/2019

TIME 09:04:53 AM
PROJECT: 60' X 90' X 14' BUILDING
FRAME : Frame Number 1

CONNECTION AT JOINT 2 BETWEEN MEMBERS: 3, 1

DESIGNING OUTSIDE (TOP) FLANGE

FORCE SET WITH LARGEST NET TENSION:
MOMENT (K-FT)
78.4804
AXIAL (KIPS)
7.7269
RESULTING TENSION (KIPS)
41.6412

TRY 4 BOLT DESIGN
VERTICAL BOLT GAUGE USED
1.3750
MINIMUM BOLT DIAMETER (IN)
.7500
BOLT OFFSET PF (AISC P.4-116) (IN)
1.3750

COMPUTING MINIMUM THICKNESS
Pe (IN)
1.0108
Ca
1.1100
Cb
.9129
AlphaM
.7985
Me (KIP-IN)
8.4023
Theoretical Thickness (IN)
.4734

TRIAL CONNECTION PLATE SIZE
WIDTH THICKNESS YIELD
6.0000 .5000 50.0000

*** SUCCEEDED IN FINDING THE REQUIRED THICKNESS ***

SUMMARY: 4-BOLT DESIGN

=====

| | | |
|--------|--|----------------|
| | VERTICAL DISTANCE FROM MIDDLE OF FLANGE TO OUTSIDE BOLT SET (GAO) | (IN) |
| 1.5000 | | |
| | INSIDE BOLT SET (GAI) | (IN) |
| 1.5000 | | |
| | CONNECTION PLATE | WIDTH (IN) |
| 6.0000 | | |
| | | THICKNESS (IN) |
| .5000 | | |
| | BOLT DIAMETER | (IN) |
| .7500 | | |
| | BOLT LENGTH | (IN) |
| 2.0000 | | |
| | FLANGE TO END PLATE WELD SIZE: | (IN) |
| .2500 | | |
| | BEAM WEB TO END PLATE WELD SIZE: | (IN) |
| .1875 | | |

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CONNECTION DESIGN

PAGE 6

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TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION AT JOINT 2 BETWEEN MEMBERS: 3, 1

DESIGNING INSIDE (BOTTOM) FLANGE
=====

FORCE SET WITH LARGEST NET TENSION:
MOMENT (K-FT) -
50.7442
AXIAL (KIPS) -
4.7867
RESULTING TENSION (KIPS)
31.8160

TRY 4 BOLT DESIGN
VERTICAL BOLT GAUGE USED
1.3750
MINIMUM BOLT DIAMETER (IN)
.7500
BOLT OFFSET PF (AISC P.4-116) (IN)
1.3750

COMPUTING MINIMUM THICKNESS
Pe (IN)
1.0549
Ca
1.1100
Cb
1.0000
AlphaM
.8841
Me (KIP-IN)
7.4189
Theoretical Thickness (IN)
.4448

TRIAL CONNECTION PLATE SIZE
WIDTH THICKNESS YIELD
6.0000 .5000 50.0000
10

*** SUCCEEDED IN FINDING THE REQUIRED THICKNESS ***

SUMMARY: 4-BOLT DESIGN

=====

| | | |
|--|-----------|------|
| VERTICAL DISTANCE FROM MIDDLE OF FLANGE TO | | |
| OUTSIDE BOLT SET (GAO) | | (IN) |
| 1.5000 | | |
| INSIDE BOLT SET (GAI) | | (IN) |
| 1.5000 | | |
| CONNECTION PLATE | WIDTH | (IN) |
| 6.0000 | | |
| | THICKNESS | (IN) |
| .5000 | | |
| BOLT DIAMETER | | (IN) |
| .7500 | | |
| BOLT LENGTH | | (IN) |
| 2.0000 | | |
| FLANGE TO END PLATE WELD SIZE: | | (IN) |
| .1875 | | |
| BEAM WEB TO END PLATE WELD SIZE: | | (IN) |
| .1875 | | |

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CONNECTION DESIGN

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DATE 8/ 6/2019

TIME 09:04:53 AM
PROJECT: 60' X 90' X 14' BUILDING
FRAME : Frame Number 1

CONNECTION AT JOINT 2 BETWEEN MEMBERS: 3, 1

SUMMARY OF THE MOMENT CONNECTION DESIGN

FINAL CONNECTION PLATE WIDTH (IN)
6.0000
THICKNESS (IN)
.5000
FINAL BOLT DIAMETER (IN)
.7500
FINAL BOLT LENGTH (IN)
2.0000

CONNECTION AT OUTSIDE (TOP) FLANGE:
NUMBER OF BOLTS 4
FLANGE TO END PLATE WELD: USE FULL PENETRATION GROOVE
WELD
BEAM WEB TO END PLATE WELD: USE FULL PENETRATION GROOVE
WELD

CONNECTION AT INSIDE (BOTTOM) FLANGE:
NUMBER OF BOLTS 4
FLANGE TO END PLATE WELD: USE FILLET WELDS (IN)
.1875
BEAM WEB TO END PLATE WELD: USE FULL PENETRATION GROOVE
WELD

CHECK COLUMN YIELDING AND COLUMN WEB BUCKLING
FLANGE FORCE (KIPS)
49.3682
Pbf (KIPS)
82.2803
k (IN)
.6875
BOTTOM FLANGE WEB WELD SIZE (IN)
.1875
MINIMUM COLUMN WEB THICKNESS WITHOUT STIFFENER:

| | | |
|-------|-------------------------------------|------|
| .2862 | WITH RESPECT TO COLUMN YIELDING | (IN) |
| .1207 | WITH RESPECT TO COLUMN WEB BUCKLING | (IN) |

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CONNECTION DESIGN

PAGE 8

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TIME 09:04:53 AM
PROJECT: 60' X 90' X 14' BUILDING
FRAME : Frame Number 1

CONNECTION PLATE DESIGN - AISC 10TH EDITION

RAFTER CONNECTION DESIGN AT JOINT 3
BETWEEN MEMBERS: 3, 4

| SUPPORT TYPE : | MOMENT - VERTICAL |
|--------------------------------------|-------------------|
| RAFTER | |
| WEB HEIGHT | (IN) |
| 13.6943 | |
| WEB THICKNESS | (IN) |
| .1875 | |
| OUTSIDE FLANGE WIDTH | (IN) |
| 6.0000 | |
| OUTSIDE FLANGE THICKNESS | (IN) |
| .2500 | |
| INSIDE FLANGE WIDTH | (IN) |
| 6.0000 | |
| INSIDE FLANGE THICKNESS | (IN) |
| .2500 | |
| FLANGE YIELD | (KSI) |
| 50.0000 | |
| WEB YIELD | (KSI) |
| 50.0000 | |
| WELD STRENGTH | (KSI) |
| 70.0000 | |
| MAX. THICKNESS FOR 4-BOLT DESIGN | (IN) |
| 1.0000 | |
| MAX. BOLT DIAMETER FOR 4-BOLT DESIGN | (IN) |
| 1.0000 | |
| ALLOWABLE OVERSTRESS | |
| 1.0000 | |
| HORIZONTAL BOLT GAUGE (GA4) | (IN) |
| 3.5000 | |
| VERTICAL BOLT GAUGE (GA3) | (IN) |
| 3.0000 | |
| HOLES ARE PUNCHED | |

CONTROLLING FLANGE IS THE BOTTOM FLANGE

| | |
|--------------------------------|-------|
| MINIMUM CONNECTION PLATE WIDTH | (IN) |
| 6.0000 | |
| MINIMUM CONNECTION PLATE YIELD | (KSI) |
| 50.0000 | |

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CONNECTION DESIGN

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DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION AT JOINT 3 BETWEEN MEMBERS: 3, 4

DESIGNING INSIDE (BOTTOM) FLANGE
=====

FORCE SET WITH LARGEST NET TENSION:
MOMENT (K-FT) -
36.4692
AXIAL (KIPS)
6.8365
RESULTING TENSION (KIPS)
27.9660

TRY 4 BOLT DESIGN
VERTICAL BOLT GAUGE USED
1.4583
MINIMUM BOLT DIAMETER (IN)
.7500
BOLT OFFSET PF (AISC P.4-116) (IN)
1.4583

COMPUTING MINIMUM THICKNESS
Pe (IN)
1.1825
Ca
1.1100
Cb
1.0000
AlphaM
1.0398
Me (KIP-IN)
8.5959
Theoretical Thickness (IN)
.4788

TRIAL CONNECTION PLATE SIZE
WIDTH THICKNESS YIELD
6.0000 .5000 50.0000

*** SUCCEEDED IN FINDING THE REQUIRED THICKNESS ***

SUMMARY: 4-BOLT DESIGN

=====

| | |
|--|----------------|
| VERTICAL DISTANCE FROM MIDDLE OF FLANGE TO OUTSIDE BOLT SET (GAO) | (IN) |
| 1.5833 | |
| INSIDE BOLT SET (GAI) | (IN) |
| 1.5833 | |
| CONNECTION PLATE | WIDTH (IN) |
| 6.0000 | |
| | THICKNESS (IN) |
| .5000 | |
| BOLT DIAMETER | (IN) |
| .7500 | |
| BOLT LENGTH | (IN) |
| 2.0000 | |
| FLANGE TO END PLATE WELD SIZE: | (IN) |
| .1250 | |
| BEAM WEB TO END PLATE WELD SIZE: | (IN) |
| .1875 | |

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CONNECTION DESIGN

PAGE 10

DATE 8/ 6/2019

TIME 09:04:53 AM
 PROJECT: 60' X 90' X 14' BUILDING
 FRAME : Frame Number 1

CONNECTION AT JOINT 3 BETWEEN MEMBERS: 3, 4

DESIGNING OUTSIDE (TOP) FLANGE

FORCE SET WITH LARGEST NET TENSION:
 MOMENT (K-FT)
 20.7155
 AXIAL (KIPS)
 4.9829
 RESULTING TENSION (KIPS)
 20.3185

TRY 4 BOLT DESIGN
 VERTICAL BOLT GAUGE USED
 1.4583
 MINIMUM BOLT DIAMETER (IN)
 .7500
 BOLT OFFSET PF (AISC P.4-116) (IN)
 1.4583

COMPUTING MINIMUM THICKNESS
 Pe (IN)
 1.1825
 Ca
 1.1100
 Cb
 1.0000
 AlphaM
 1.0398
 Me (KIP-IN)
 6.2453
 Theoretical Thickness (IN)
 .4081

TRIAL CONNECTION PLATE SIZE
 WIDTH THICKNESS YIELD
 6.0000 .5000 50.0000

*** SUCCEEDED IN FINDING THE REQUIRED THICKNESS ***

SUMMARY: 4-BOLT DESIGN

=====

| | | |
|--------|--|-----------|
| | VERTICAL DISTANCE FROM MIDDLE OF FLANGE TO | |
| | OUTSIDE BOLT SET (GAO) | (IN) |
| 1.5833 | | |
| | INSIDE BOLT SET (GAI) | (IN) |
| 1.5833 | | |
| | CONNECTION PLATE | WIDTH |
| 6.0000 | | (IN) |
| | | THICKNESS |
| .5000 | | (IN) |
| | BOLT DIAMETER | (IN) |
| .7500 | | |
| | BOLT LENGTH | (IN) |
| 2.0000 | | |
| | FLANGE TO END PLATE WELD SIZE: | (IN) |
| .1250 | | |
| | BEAM WEB TO END PLATE WELD SIZE: | (IN) |
| .1875 | | |

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CONNECTION DESIGN

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DATE 8/ 6/2019

TIME 09:04:53 AM

PROJECT: 60' X 90' X 14' BUILDING

FRAME : Frame Number 1

CONNECTION AT JOINT 3 BETWEEN MEMBERS: 3, 4

SUMMARY OF THE MOMENT CONNECTION DESIGN

FINAL CONNECTION PLATE WIDTH (IN)
6.0000

THICKNESS (IN)
.5000

FINAL BOLT DIAMETER (IN)
.7500

FINAL BOLT LENGTH (IN)
2.0000

CONNECTION AT OUTSIDE (TOP) FLANGE:

NUMBER OF BOLTS 4

FLANGE TO END PLATE WELD: USE FILLET WELDS (IN)
.1250

BEAM WEB TO END PLATE WELD: USE FULL PENETRATION GROOVE WELD

CONNECTION AT INSIDE (BOTTOM) FLANGE:

NUMBER OF BOLTS 4

FLANGE TO END PLATE WELD: USE FILLET WELDS (IN)
.1250

BEAM WEB TO END PLATE WELD: USE FULL PENETRATION GROOVE WELD

SECTION 4
BRACING DESIGN

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 1

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

| LOAD | SPAN | SIDEWALL | SLOPE | BAY | LENGTH | WIND |
|-------|-------|----------|-------|-------|--------|------|
| 28.78 | 60.00 | 14.00 | 1.00 | 23.00 | 90.00 | |

TOTAL SEISMIC: 13708 LBS

| APEX | RIGHT SIDEWALL | RIGHT SLOPE | HORIZONTAL DISTANCE TO |
|-------|----------------|-------------|------------------------|
| 30.00 | 14.00 | 1.00 | |

| DIAPHRAGM | LENGTH | NUMBER OF BRACED BAYS |
|----------------|--------|-----------------------|
| LEFT SIDEWALL | .00 | 1 |
| LEFT ROOF | .00 | 1 |
| RIGHT ROOF | .00 | 1 |
| RIGHT SIDEWALL | .00 | 1 |

ENDWALL COLUMN SPACING--LEFT TO RIGHT (FT)
20.00 20.00 20.00

ENDWALL COLUMN SUPPORT AREA--LEFT TO RIGHT (FT2)
144.17 313.33 313.33 144.17

BUILDING CODE CBC 2016
SEISMIC DESIGN CATEGORY: D
BUILDING CATEGORY: 4
HEIGHT FOR Kh Kh Gh EXPOSURE
15.00 .85 1.00 3

GCpi INTERNAL PRESSURE GCpi INTERNAL SUCTION
.18 -.18

BUILDING WIDTH EXCEEDS MAXIMUM ALLOWED FOR DIAPHRAGM ONLY
BRACING
DIAGONAL BRACING IS REQUIRED.

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 2

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.6W

CASE: 1 DIRECTION: 1

INTERNAL PRESSURE

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

.47 .51 .00 .51 .47

WIND COEFFICIENTS AT WINDWARD WALL

.37 .19 .00 .19 .37

POINT LOADS AT LEEWARD WALL

.66 1.08 .00 1.08 .66

WIND COEFFICIENTS AT LEEWARD WALL

.52 .40 .00 .40 .52

REACTIONS

LEFT RIGHT

2.72 2.72

SHEAR FORCE AT STRUT LINE

2.72 1.58 .00 .00 1.58 2.72

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

2.72 1.58 .00 .00 1.58 2.72

TENSION IN DIAGONAL BRACES

3.18 2.10 .00 .00 2.10 3.18

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

| RIGHT SIDEWALL | | | |
|----------------|-------|------|-----|
| -.66 | -.66 | 2.05 | .47 |
| -1.08 | -1.08 | .51 | .51 |
| .00 | .00 | .00 | .00 |
| -1.08 | -1.08 | .51 | .51 |
| -.66 | -.66 | 2.05 | .47 |
| LEFT SIDEWALL | | | |

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 3

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.6W

CASE: 1 DIRECTION: 1

INTERNAL SUCTION

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

.86 1.33 .00 1.33 .86

WIND COEFFICIENTS AT WINDWARD WALL

.67 .49 .00 .49 .67

POINT LOADS AT LEEWARD WALL

.27 .25 .00 .25 .27

WIND COEFFICIENTS AT LEEWARD WALL

.21 .09 .00 .09 .21

REACTIONS

LEFT RIGHT

2.72 2.72

SHEAR FORCE AT STRUT LINE

2.72 1.58 .00 .00 1.58 2.72

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

2.72 1.58 .00 .00 1.58 2.72

TENSION IN DIAGONAL BRACES

3.18 2.10 .00 .00 2.10 3.18

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

| RIGHT SIDEWALL | | | | |
|----------------|------|------|------|-----|
| -.27 | -.27 | 2.44 | | .86 |
| -.25 | -.25 | 1.33 | 1.33 | |
| .00 | .00 | .00 | .00 | |
| -.25 | -.25 | 1.33 | 1.33 | |
| -.27 | -.27 | 2.44 | | .86 |
| LEFT SIDEWALL | | | | |

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 4

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.6W

CASE: 1 DIRECTION: 2

INTERNAL PRESSURE

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

-.66 -1.08 .00 -1.08 -.66

WIND COEFFICIENTS AT WINDWARD WALL

-.52 -.40 .00 -.40 -.52

POINT LOADS AT LEEWARD WALL

-.47 -.51 .00 -.51 -.47

WIND COEFFICIENTS AT LEEWARD WALL

-.37 -.19 .00 -.19 -.37

REACTIONS

LEFT RIGHT

-2.72 -2.72

SHEAR FORCE AT STRUT LINE

-2.72 -1.58 .00 .00 -1.58 -2.72

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

-2.72 -1.58 .00 .00 -1.58 -2.72

TENSION IN DIAGONAL BRACES

3.18 2.10 .00 .00 2.10 3.18

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

| RIGHT SIDEWALL | | | |
|----------------|-----|------|-------|
| .47 | .47 | 2.05 | -.66 |
| .51 | .51 | .51 | -1.08 |
| .00 | .00 | .00 | .00 |
| .51 | .51 | .51 | -1.08 |
| .47 | .47 | 2.05 | -.66 |
| LEFT SIDEWALL | | | |

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 5

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.6W

CASE: 1 DIRECTION: 2

INTERNAL SUCTION

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

-0.27 -0.25 .00 -0.25 -0.27

WIND COEFFICIENTS AT WINDWARD WALL

-0.21 -0.09 .00 -0.09 -0.21

POINT LOADS AT LEEWARD WALL

-0.86 -1.33 .00 -1.33 -0.86

WIND COEFFICIENTS AT LEEWARD WALL

-0.67 -0.49 .00 -0.49 -0.67

REACTIONS

LEFT RIGHT

-2.72 -2.72

SHEAR FORCE AT STRUT LINE

-2.72 -1.58 .00 .00 -1.58 -2.72

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

-2.72 -1.58 .00 .00 -1.58 -2.72

TENSION IN DIAGONAL BRACES

3.18 2.10 .00 .00 2.10 3.18

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

| RIGHT SIDEWALL | | | |
|----------------|------|------|------|
| .86 | .86 | 2.44 | -.27 |
| 1.33 | 1.33 | 1.33 | -.25 |
| .00 | .00 | .00 | .00 |
| 1.33 | 1.33 | 1.33 | -.25 |
| .86 | .86 | 2.44 | -.27 |
| LEFT SIDEWALL | | | |

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 6

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.7Em

DIRECTION: 1

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

.76 1.64 .00 1.64 .76

POINT LOADS AT LEEWARD WALL

.76 1.64 .00 1.64 .76

REACTIONS

LEFT RIGHT

4.80 4.80

SHEAR FORCE AT STRUT LINE

4.80 3.29 .00 .00 3.29 4.80

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

4.80 3.29 .00 .00 3.29 4.80

TENSION IN DIAGONAL BRACES

5.62 4.36 .00 .00 4.36 5.62

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

RIGHT SIDEWALL

| | | | |
|-------|-------|------|------|
| -.76 | -.76 | 4.04 | .76 |
| -1.64 | -1.64 | 1.64 | 1.64 |
| .00 | .00 | .00 | .00 |
| -1.64 | -1.64 | 1.64 | 1.64 |
| -.76 | -.76 | 4.04 | .76 |

LEFT SIDEWALL

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 7

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: 0.7Em

DIRECTION: 2

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

-0.76 -1.64 .00 -1.64 -0.76

POINT LOADS AT LEEWARD WALL

-0.76 -1.64 .00 -1.64 -0.76

REACTIONS

LEFT RIGHT

-4.80 -4.80

SHEAR FORCE AT STRUT LINE

-4.80 -3.29 .00 .00 -3.29 -4.80

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

-4.80 -3.29 .00 .00 -3.29 -4.80

TENSION IN DIAGONAL BRACES

5.62 4.36 .00 .00 4.36 5.62

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

RIGHT SIDEWALL

| | | | |
|------|------|------|-------|
| .76 | .76 | 4.04 | -0.76 |
| 1.64 | 1.64 | 1.64 | -1.64 |
| .00 | .00 | .00 | .00 |
| 1.64 | 1.64 | 1.64 | -1.64 |
| .76 | .76 | 4.04 | -0.76 |

LEFT SIDEWALL

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 8

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: INCIDENTAL FORCES

DIRECTION: 1

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

.01 .03 .00 .03 .01

POINT LOADS AT LEEWARD WALL

.01 .03 .00 .03 .01

REACTIONS

LEFT RIGHT

.07 .07

SHEAR FORCE AT STRUT LINE

.07 .05 .00 .00 .05 .07

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

.07 .05 .00 .00 .05 .07

TENSION IN DIAGONAL BRACES

.09 .07 .00 .00 .07 .09

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |
| CAB.375 | | | | | |

STRUT LOADS

RIGHT SIDEWALL

| | | | |
|------|------|-----|-----|
| -.01 | -.01 | .06 | .01 |
| -.03 | -.03 | .03 | .03 |
| .00 | .00 | .00 | .00 |
| -.03 | -.03 | .03 | .03 |
| -.01 | -.01 | .06 | .01 |

LEFT SIDEWALL

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 9

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

LOAD: INCIDENTAL FORCES

DIRECTION: 2

FORCES (KIPS)

POINT LOADS AT WINDWARD WALL

-.01 -.03 .00 -.03 -.01

POINT LOADS AT LEEWARD WALL

-.01 -.03 .00 -.03 -.01

REACTIONS

LEFT RIGHT

-.07 -.07

SHEAR FORCE AT STRUT LINE

-.07 -.05 .00 .00 -.05 -.07

DIAPHRAGM RESISTING SHEAR PER BAY

.00 .00 .00 .00 .00 .00

SHEAR FORCE IN EACH BRACED BAY

-.07 -.05 .00 .00 -.05 -.07

TENSION IN DIAGONAL BRACES

.09 .07 .00 .00 .07 .09

REQUIRED BRACES

| | | | | | |
|---------|----------|---------|---------|----------|-----|
| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |

CAB.375

STRUT LOADS

RIGHT SIDEWALL

| | | | |
|-----|-----|-----|------|
| .01 | .01 | .06 | -.01 |
| .03 | .03 | .03 | -.03 |
| .00 | .00 | .00 | .00 |
| .03 | .03 | .03 | -.03 |
| .01 | .01 | .06 | -.01 |

LEFT SIDEWALL

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ROOF AND SIDEWALL DIAGONAL BRACING

PAGE 10

DATE 8/ 6/2019

TIME 09:04:38 AM

PROJECT: 60' X 90' X 14' BUILDING

MAXIMUM STRUT FORCES

| RIGHT SIDEWALL | | | |
|----------------|------|------|------|
| .86 | .86 | 4.04 | .86 |
| 1.64 | 1.64 | 1.64 | 1.64 |
| .00 | .00 | .00 | .00 |
| 1.64 | 1.64 | 1.64 | 1.64 |
| .86 | .86 | 4.04 | .86 |

LEFT SIDEWALL

SECTION 5

SECTION SIZE

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SECTION SIZES

PAGE 1

DATE 8/ 6/2019

TIME 09:04:59 AM

PROJECT: 60' X 90' X 14' BUILDING

FRONT ENDWALL

RAFTERS

| | | | |
|---------|-------|-------|-------|
| SECTION | 08W10 | 08W10 | 08W10 |
| LENGTH | 20.07 | 20.07 | 20.07 |

COLUMNS

| | | |
|---------|-------|-------|
| SECTION | 08W10 | 08W10 |
| LENGTH | 14.28 | 14.28 |

ENDWALL GIRTS

| BAY | LENGTH (FT) | SECTIONS | | | | |
|-----|-------------|----------|---------|---------|---------|-------|
| 1 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | | | | | | |
| 2 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | 8Z2.5 6 | | | | | |
| 3 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | | | | | | |

BACK ENDWALL

RAFTERS

| | | | |
|---------|-------|-------|-------|
| SECTION | 08W10 | 08W10 | 08W10 |
| LENGTH | 20.07 | 20.07 | 20.07 |

COLUMNS

| | | |
|---------|-------|-------|
| SECTION | 08W10 | 08W10 |
| LENGTH | 14.28 | 14.28 |

ENDWALL GIRTS

| BAY | LENGTH (FT) | SECTIONS | | | | |
|-----|-------------|----------|---------|---------|---------|-------|
| 1 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | | | | | | |
| 2 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | 8Z2.5 6 | | | | | |
| 3 | 20.00 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 6 | 8Z2.5 |
| 6 | | | | | | |

GIRTS FOR LEFT SIDEWALL

| BAY | LENGTH(FT) | NO | SECTION | SPACES(FT) | | | | | |
|------|------------|----|---------|------------|------|------|------|------|------|
| 1 | 22.00 | 6 | 8Z2.5 6 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| 2.00 | | | | | | | | | |
| 2 | 23.00 | 6 | 8Z2.5 6 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| 2.00 | | | | | | | | | |
| 3 | 23.00 | 6 | 8Z2.5 6 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| 2.00 | | | | | | | | | |
| 4 | 22.00 | 6 | 8Z2.5 6 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 |
| 2.00 | | | | | | | | | |

GIRTS FOR RIGHT SIDEWALL

| BAY | LENGTH(FT) | NO | SECTION | SPACES(FT) | | | | | |
|------|------------|----|---------|------------|------|------|------|------|------|
| 1 | 22.00 | 6 | 8Z2.5 6 | 1.96 | 1.96 | 2.00 | 2.00 | 2.00 | 2.00 |
| 2.00 | | | | | | | | | |

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SECTION SIZES

PAGE 2

DATE 8/ 6/2019

TIME 09:04:59 AM

PROJECT: 60' X 90' X 14' BUILDING

| BAY | LENGTH(FT) | NO | SECTION | SPACES(FT) | | | | | |
|------|------------|----|---------|------------|------|------|------|------|--|
| 2 | 23.00 | 6 | 8Z2.5 6 | 1.96 | 1.96 | 2.00 | 2.00 | 2.00 | |
| 2.00 | | | | | | | | | |
| 3 | 23.00 | 6 | 8Z2.5 6 | 1.96 | 1.96 | 2.00 | 2.00 | 2.00 | |
| 2.00 | | | | | | | | | |
| 4 | 22.00 | 6 | 8Z2.5 6 | 1.96 | 1.96 | 2.00 | 2.00 | 2.00 | |
| 2.00 | | | | | | | | | |

PURLINS, EAVE STRUTS, AND STRUTS

| TYPE | PURLIN NO | BAY | REGION | SECTION | QTY | LENGTH |
|--------|-----------|-----|--------|---------|-----|--------|
| PURLIN | 1 | 1 | 3 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 1 | 2 | 3 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 1 | 3 | 3 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 1 | 4 | 3 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 2 | 1 | 4 | 8Z2.5 6 | 2 | 23.125 |
| PURLIN | 2 | 2 | 4 | 8Z2.5 6 | 2 | 25.292 |
| PURLIN | 2 | 3 | 4 | 8Z2.5 6 | 2 | 25.292 |
| PURLIN | 2 | 4 | 4 | 8Z2.5 6 | 2 | 23.125 |
| PURLIN | 4 | 1 | 4 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 4 | 2 | 4 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 4 | 3 | 4 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 4 | 4 | 4 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 5 | 1 | 5 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 5 | 2 | 5 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 5 | 3 | 5 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 5 | 4 | 5 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 6 | 1 | 5 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 6 | 2 | 5 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 6 | 3 | 5 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 6 | 4 | 5 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 7 | 1 | 6 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 7 | 2 | 6 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 7 | 3 | 6 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 7 | 4 | 6 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 8 | 1 | 6 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 8 | 2 | 6 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 8 | 3 | 6 | 8Z2.5 6 | 1 | 25.292 |

| | | | | | | |
|--------|----|---|---|---------|---|--------|
| PURLIN | 8 | 4 | 6 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 9 | 1 | 7 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 9 | 2 | 7 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 9 | 3 | 7 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 9 | 4 | 7 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 10 | 1 | 7 | 8Z2.5 6 | 2 | 23.125 |
| PURLIN | 10 | 2 | 7 | 8Z2.5 6 | 2 | 25.292 |
| PURLIN | 10 | 3 | 7 | 8Z2.5 6 | 2 | 25.292 |

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SECTION SIZES

PAGE 3

DATE 8/ 6/2019

TIME 09:04:59 AM

PROJECT: 60' X 90' X 14' BUILDING

| TYPE | PURLIN NO | BAY | REGION | SECTION | QTY | LENGTH |
|--------|-----------|-----|--------|---------|-----|--------|
| PURLIN | 10 | 4 | 7 | 8Z2.5 6 | 2 | 23.125 |
| PURLIN | 12 | 1 | 8 | 8Z2.5 6 | 1 | 23.125 |
| PURLIN | 12 | 2 | 8 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 12 | 3 | 8 | 8Z2.5 6 | 1 | 25.292 |
| PURLIN | 12 | 4 | 8 | 8Z2.5 6 | 1 | 23.125 |

| TYPE | EAVE NO | BAY | REGION | SECTION | QTY | LENGTH |
|-----------------|---------|-----|--------|---------|-----|--------|
| EAVE STRUT (LS) | 1 | 1 | 1 | 8 ES 14 | 1 | 21.958 |
| EAVE STRUT (LS) | 1 | 2 | 1 | 8 ES 14 | 1 | 22.958 |
| EAVE STRUT (LS) | 1 | 3 | 1 | 8 ES 14 | 1 | 22.958 |
| EAVE STRUT (LS) | 1 | 4 | 1 | 8 ES 14 | 1 | 21.958 |
| EAVE STRUT (LS) | 2 | 1 | 2 | 8 ES 14 | 1 | 21.958 |
| EAVE STRUT (LS) | 2 | 2 | 2 | 8 ES 14 | 1 | 22.958 |
| EAVE STRUT (LS) | 2 | 3 | 2 | 8 ES 14 | 1 | 22.958 |
| EAVE STRUT (LS) | 2 | 4 | 2 | 8 ES 14 | 1 | 21.958 |

PURLIN SPACES, LEFT TO RIGHT (IN)

| | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|
| 58.21 | 58.21 | 58.21 | 58.21 | 58.21 | 58.21 | 24.00 |
| 58.21 | 58.21 | 58.21 | | | | |
| 58.21 | 58.21 | 58.21 | | | | |

ROOF AND SIDEWALL DIAGONAL BRACING

| LSW | LROOF 1 | LROOF 2 | RROOF 3 | RROOF 4 | RSW |
|---------|----------|---------|---------|----------|-----|
| CAB.375 | CAB.3125 | CAB .25 | CAB .25 | CAB.3125 | |
| CAB.375 | | | | | |

SECTION 6

FOUNDATION CALC'S