

## Order

Release	<b>SBS 10.5D sp1</b>	Shipping Point	<b>Elizabethton, TN</b>
Service Rep	<b>Neal Norman</b>	Sec. to Pri. Connection	<b>Welded Clips</b>
District Manager	<b>Other</b>	Estimate Date	<b>9/2/2014</b>
Purchaser	<b>N/A</b>	Project ID	<b>Hines Property 1a</b>

## Codes And Loads

Project Use Category	<b>Commercial</b>	Jobsite Address	<b>N/A</b>
Building Code	<b>2006 IBC</b>	County	<b>N/A, MS, N/A Pearl River</b>
<b><u>Live/Wind</u></b>			
Live Load	<b>20.000 psf</b>	Wind Category	<b>N/A</b>
Trib. Area Reduction Allowed	<b>Yes</b>	Miles From Coastline	<b>N/A</b>
Wind Speed	<b>115.00 mph</b>	Rain Intensity	<b>10.0000 in/hr</b>
Wind Exposure	<b>Exposure B</b>		
Hurricane Coastline	<b>No</b>		
<b><u>Snow</u></b>			
Ground Snow Load	<b>5.000 psf</b>	Snow Exposure	<b>Partially Exposed</b>
Min Roof Snow Load	<b>0.000 psf</b>	Rain Load	<b>N/A</b>
		Elevation Above Sea Level	<b>N/A</b>
<b><u>Seismic</u></b>			
Spectral Response(Ss)	<b>12.90 %</b>	% of Snow Load for Seismic	<b>Normal</b>
Spectral Response(Sh)	<b>N/A</b>	Seismic Zone	<b>N/A</b>
Spectral Response(S1)	<b>5.80 %</b>	Near Source Factor	<b>N/A</b>
Spectral Response(S2)	<b>N/A</b>	Design Seismic for Schools	<b>N/A</b>
Accelerated Coefficient(Aa)	<b>N/A</b>	Soil Type	<b>(D) Stiff Soil</b>
Velocity Coefficient(Av)	<b>N/A</b>		

\* Note - Snow Exposure could be updated by the application to a per building value based on input entered into this project.

Preliminary  
(not for construction)

## New Building A - Multiuse Bldg

Label	A	Type	Stand Alone
Structure	<b>New - Priced</b>	Frame Type	<b>Symmetrical</b>
Attachment	<b>No</b>	Elevation A	<b>Sidewall</b>
Geometry			
Width	<b>45'-0"</b>	Length	<b>70'-0"</b>
<b>SWA</b>		<b>SWC</b>	
Eave Height	<b>11'-0"</b>	Eave Height	<b>11'-0"</b>
Roof Slope	<b>3.000000 / 12</b>	Roof Slope	<b>3.000000 / 12</b>
Distance To Ridge	<b>22'-6"</b>	Distance To Ridge	<b>22'-6"</b>
Girts	<b>8.0" - Exterior</b>	Girts	<b>8.0" - Exterior</b>
<b>EWB</b>		<b>EWD</b>	
Type	<b>Non-Expandable Bearing Frame</b>	Type	<b>Non-Expandable Bearing Frame</b>
Girts	<b>8.0" - 1" Outset</b>	Girts	<b>8.0" - 1" Outset</b>
User Specified Setback	<b>System Standard 0'-4"</b>	User Specified Setback	<b>System Standard 0'-4"</b>
Designed Setback	<b>0'-4"</b>	Designed Setback	<b>0'-4"</b>
Gable Flash	<b>Yes</b>	Gable Flash	<b>Yes</b>
Insulation Trim	<b>No</b>	Insulation Trim	<b>No</b>
Purlins	<b>8.0" Z</b>	Pregalvanized Secondary	<b>No</b>
Steel Shop Coat	<b>Red</b>	Hot-Dipped Primary	<b>No</b>
Bolt Finish	<b>Plated</b>	Seal Welds	<b>N/A</b>
		Frame Bolt Washers	<b>No</b>

## Spacing

Bay Spacing	<b>(EWB-EWD)</b>	<b>23'-4", 23'-4", 23'-4"</b>
EWB Column Spacing	<b>(SWC-SWA)</b>	<b>10'-0", 25'-0", 10'-0"</b>
EWD Column Spacing	<b>(SWA-SWC)</b>	<b>10'-0", 25'-0", 10'-0"</b>
EWB Column Recesses	<b>(SWC-SWA)</b>	<b>0.0", 0.0", 0.0", 0.0"</b>
EWD Column Recesses	<b>(SWA-SWC)</b>	<b>0.0", 0.0", 0.0", 0.0"</b>

\* Note - Negative column recess raises the base of the column above the finished floor.

SWA Girt Spacings	<b>(Base to Eave)</b>	<b>System Standard</b>	<b>3'-6", 3'-10",</b>
SWC Girt Spacings	<b>(Base to Eave)</b>	<b>System Standard</b>	<b>3'-6", 3'-10",</b>
EWB Girt Spacings	<b>(Base to Peak)</b>	<b>System Standard</b>	<b>3'-6", 3'-10", 5'-9 3/4",</b>
EWD Girt Spacings	<b>(Base to Peak)</b>	<b>System Standard</b>	<b>3'-6", 3'-10", 5'-9 3/4",</b>
Designed Purlin Spacings on the Slope - SWA		<b>(Eave to Peak)</b>	<b>2@3'-3 7/16", 3@5'-1 7/8"</b>
Designed Purlin Spacings on the Slope - SWC		<b>(Eave to Peak)</b>	<b>2@3'-3 7/16", 3@5'-1 7/8"</b>

## Frame Groups

Group Number	<b>1 (Clearspan)</b>		
Frame Lines	<b>2, 3</b>		
<b>SWA</b>		<b>SWC</b>	
Column	<b>Tapered Allowed</b>	Column	<b>Tapered Allowed</b>
Unbraced	<b>No</b>	Unbraced	<b>No</b>
Max Column Web Depth	<b>60.0"</b>	Max Column Web Depth	<b>60.0"</b>
Max Rafter Web Depth	<b>60.0"</b>	Max Rafter Web Depth	<b>60.0"</b>
Exterior Column Elevation	<b>At Finished Floor</b>	Exterior Column Elevation	<b>At Finished Floor</b>

## Loads, Wind Enclosure, Deflections &amp; Sidesway

<b>Building Loads</b>		<b>Importance Factors</b>	
Roof Snow Load By Design	<b>3.500 psf</b>	Snow Is	<b>1.00</b>
Occupancy Category	<b>II - Normal</b>	Wind Iw	<b>1.00</b>
Thermal Condition	<b>Heated</b>	Seismic Ie	<b>1.00</b>
Seismic Design Category	<b>B</b>	Designed Snow Exposure	<b>Partially Exposed</b>

**Wind Enclosure**

Enclosure		<b>Calculated - Enclosed</b>
Are Framed Openings enclosed with materials that are designed to withstand the wind load and wind borne debris (if applicable)?		<b>Yes</b>
Are all Open Areas for Other enclosed with materials that are designed to withstand the wind load and wind borne debris (if applicable)?		<b>Yes</b>
Open Building Condition		<b>Obstructed flow</b>

**Uniform Collateral Loads**

Ceiling Load	<b>0.000 psf</b>
Ceiling Type	<b>N/A</b>
Brittle Wall/Dryvit	<b>No</b>
Other	<b>0.500 psf</b>

New Building A - Multiuse Bldg Continued...

Loads, Wind Enclosure, Deflections & Sidesway Continued...

**Deflections**

Purlins

Live	L/150	Default
Snow	L/180	Default
Wind	L/180	Default
Total Gravity	L/120	Default
Total Uplift	N/A	

Roof Panel

Live	L/60	Default
Snow	L/60	Default
Wind	L/60	Default
Total Gravity	L/60	Default
Total Uplift	L/60	Default

Rafters

Live	L/180	Default
Snow	L/180	Default
Wind	L/180	Default
Total Gravity	L/120	Default
Total Uplift	N/A	

Girts	L/90	Default
Wall Panel	L/60	Default
Endwall Columns	L/120	Default

**Sidesway**

Portal Frame

Wind	H/60	Default
Seismic	H/50	Default
Crane	H/100	Default

Frame

Live	H/60	Default	(H/60)
Snow	H/60	Default	(H/60)
Wind	H/60	Default	(H/60)
Total Gravity	H/60	Default	(H/60)
Total Wind	H/60	Default	(H/60)
Total Seismic	H/50	Default	(H/50)

\* Note - Frame Drift (by design) values are determined by Building Code, Crane, and Open conditions.

\* Note - It is the responsibility of the Builder to interpret all aspects of the End Customer's specifications and incorporate the appropriate specifications, design criteria, and design loads into the Order Documents submitted to Star Building Systems.

\* Note - The material supplied by Star has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and member length. The frame sidesway for wind loading is based on ASCE 7 commentary equation CC-3 of 0.7W.

**Bracing**

SWA	Full Height Portal Frame	(EWB to EWD) @ Bays	2
Roof Rod	Rod	(EWB to EWD) @ Bays	2
SWC	1 Tier Rod	(EWD to EWB) @ Bays	2
EWB	1 Tier Rod	(SWC to SWA) @ Bays	2
EWD	1 Tier Rod	(SWA to SWC) @ Bays	2
Purlins	None		
Girts	Angles		
Rafter Flange Braces	Standard		
Column Flange Braces	Standard		

**Portal Frames**

SWA

Rod Tiers Above	N/A
Max Column Web Depth	60.0000"
Max Rafter Web Depth	60.0000"

SWC

Rod Tiers Above	N/A
Max Column Web Depth	60.0000"
Max Rafter Web Depth	60.0000"

**Roof Panel (3,707 sqft)**

Type	PBR	<u>Options</u>	
Gauge	26	SS Clip Type	N/A
Thickness	N/A	Thermal Blocks	N/A
Color	Almond*	Non-Handed Erection	N/A
Finish Warranty	No	Direction	N/A
Perforation Guarantee	N/A	FM-4471 Roof Panel Anchorage	No
Interior Panel	N/A	Roof Nav Number	N/A
R Value	N/A	UL90	No
Exterior Skin	N/A	UL Letter	No
		Ridge Pan	No
		Alignment Strip	N/A
		Eave Panel Extension	No
		Purchase Hand Crimper to ship with Panels	No

**Fastener Information**

Type	Self-Drilling
Head Finish	Long-Life
Length	1-1/2"
Vendor	Atlas

Wall Panel (2,815 sqft)

Type	AVP	<b>Options</b>	
Gauge	26	Reverse Rolled	N/A
Thickness	N/A	Washers	Yes
Color	Almond*	Concrete Notch	No
Finish Warranty	Yes	Foam Tape (If applicable)	No
Interior Panel	N/A		
R Value	N/A	<b>Fastener Information</b>	
		Type	Self-Drilling
		Head Finish	Standard
		Length	1-1/2"
		Vendor	Atlas

Base Condition

Framing Trim	Angle F406	Closure	Foam Strip
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Trim

<b>SWA Options</b>	<b>Gutters and Downspouts</b>	<b>SWC Options</b>	<b>Gutters and Downspouts</b>
Trim Type	Southern Large	Trim Type	Southern Large
Gutter Type	Southern Large	Gutter Type	Southern Large
Gutter Type by Design	2	Gutter Type by Design	Southern Large
Downspout Drops	11'-0"	Downspout Drops	2
Downspout Height	Yes	Downspout Height	11'-0"
Include Elbow		Include Elbow	Yes

<b>EWB Options</b>	<b>Gable Trim</b>	<b>EWD Options</b>	<b>Gable Trim</b>
Trim Type		Trim Type	

<b>Color Selections</b>	Almond*	Trim Profile	Cascading
Eave	Almond*	Trim is 26 gauge unless noted otherwise.	
Gable	Almond*	(*) Denotes Signature 300 color.	
Corner	Almond*	<b>Trim for roof system with Sig 300 color is 24 gauge.</b>	
Base	Almond*	* Note - Gutters selected may differ from the Gutters designed.	
All Other	Almond*		
Gutters	Almond*		
Downspouts	Almond*		
Roof to Roof	N/A		
Roof to Wall	N/A		
Walk Doors	Almond*		

Design Data Frame(s): Portal - Bay 2

Inside Clearance	21'-1 1/2"	Peak Clearance	8'-10"
		Peak Rafter Depth	12.00"

Column 1 (Portal) Elevation: A

<b>Column Depth</b>	8.50"	<b>Knee</b>	12.00"
Base	8.50"	Rafter Depth	8'-10"
Knee		Clearance	
<b>Anchor Rods</b>	4	<b>Base Plate</b>	8.50"
Quantity	0.75"	Length	6.00"
Diameter	4.00"	Width	0.38"
Gauge		Thickness	
<b>Maximum Reactions</b>	1.37 Kips	<b>-0.94 Kips</b>	
Vertical	1.17 Kips	<b>-1.31 Kips</b>	
Horizontal	0.00 Kips	<b>0.00 Kips</b>	
Logitudinal			

Column 2 (Portal) Elevation: A

<b>Column Depth</b>	8.50"	<b>Knee</b>	12.00"
Base	8.50"	Rafter Depth	8'-10"
Knee		Clearance	
<b>Anchor Rods</b>	4	<b>Base Plate</b>	8.50"
Quantity	0.75"	Length	6.00"
Diameter	4.00"	Width	0.38"
Gauge		Thickness	

New Building A - Multiuse Bldg Continued...

Design Data Frame(s): Portal - Bay 2 Continued...

Column 2 (Portal) Elevation: A Continued...

**Maximum Reactions**

Vertical	<b>1.37 Kips</b>	<b>-0.94 Kips</b>
Horizontal	<b>1.31 Kips</b>	<b>-1.17 Kips</b>
Logitudinal	<b>0.00 Kips</b>	<b>0.00 Kips</b>

Combined Load Combination Reactions control the design of the anchor rods. These load combinations were determined from the appropriate IBC section regarding load combinations using allowable stress design. The load combinations of these reactions may not be the controlling combinations required for the design of the produced foundation. It is the responsibility of the foundation engineer to determine the load combinations which are required for the design of the foundation.

Design Data Frame(s): 2

Inside Clearance	<b>41'-10 1/2"</b>	Peak Clearance	<b>14'-10 1/2"</b>
		Peak Rafter Depth	<b>12.00"</b>

Column 1 (SWC)

**Column Depth**

Base	<b>9.50"</b>	<b>Knee</b>	Rafter Depth	<b>12.00"</b>
Knee	<b>9.50"</b>		Clearance	<b>9'-7 1/2"</b>

**Anchor Rods**

Quantity	<b>4</b>	<b>Base Plate</b>	Length	<b>9.50"</b>
Diameter	<b>0.75"</b>		Width	<b>6.00"</b>
Gauge	<b>4.00"</b>		Thickness	<b>0.38"</b>

**Maximum Reactions**

Vertical	<b>8.92 Kips</b>	<b>-10.92 Kips</b>
Horizontal	<b>4.00 Kips</b>	<b>-4.59 Kips</b>
Logitudinal	<b>0.00 Kips</b>	<b>-2.44 Kips</b>

Column 2 (SWA)

**Column Depth**

Base	<b>9.50"</b>	<b>Knee</b>	Rafter Depth	<b>12.00"</b>
Knee	<b>9.50"</b>		Clearance	<b>9'-7 1/2"</b>

**Anchor Rods**

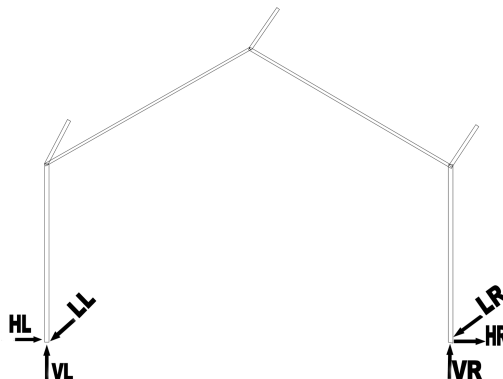
Quantity	<b>4</b>	<b>Base Plate</b>	Length	<b>9.50"</b>
Diameter	<b>0.75"</b>		Width	<b>6.00"</b>
Gauge	<b>4.00"</b>		Thickness	<b>0.38"</b>

**Maximum Reactions**

Vertical	<b>8.92 Kips</b>	<b>-9.76 Kips</b>
Horizontal	<b>4.59 Kips</b>	<b>-4.00 Kips</b>
Logitudinal	<b>0.00 Kips</b>	<b>0.00 Kips</b>

Combined Load Combination Reactions control the design of the anchor rods. These load combinations were determined from the appropriate IBC section regarding load combinations using allowable stress design. The load combinations of these reactions may not be the controlling combinations required for the design of the produced foundation. It is the responsibility of the foundation engineer to determine the load combinations which are required for the design of the foundation.

Column 1 (SWC) -->



New Building A - Multiuse Bldg Continued...

Design Data Frame(s): 2 Continued...

Individual Loads - Unfactored

**Column 1 (SWC)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Brace Downward forces due to Longitudinal Wind	1.153 Kips	-0.007 Kips	0.000 Kips
Brace Downward forces due to Seismic	0.202 Kips	-0.001 Kips	0.000 Kips
Brace Upward forces due to Longitudinal Wind	-1.153 Kips	0.008 Kips	-2.437 Kips
Brace Upward forces due to Seismic	-0.202 Kips	0.001 Kips	-0.426 Kips
Lateral Primary Wind Load 1	-9.517 Kips	-5.031 Kips	0.000 Kips
Lateral Primary Wind Load 2	-5.733 Kips	-4.280 Kips	0.000 Kips
Lateral Primary Wind Load 3	-6.988 Kips	-1.430 Kips	0.000 Kips
Lateral Primary Wind Load 4	-3.205 Kips	-0.679 Kips	0.000 Kips
Lateral Seismic Load	-0.058 Kips	-0.123 Kips	0.000 Kips
Longitudinal Primary Wind Load 1	-10.877 Kips	-2.329 Kips	0.000 Kips
Longitudinal Primary Wind Load 2	-9.657 Kips	-2.730 Kips	0.000 Kips
Longitudinal Primary Wind Load 3	-6.548 Kips	-0.851 Kips	0.000 Kips
Longitudinal Primary Wind Load 4	-6.034 Kips	-1.020 Kips	0.000 Kips
Pattern Left Roof Live Load 1	0.492 Kips	-0.042 Kips	0.000 Kips
Pattern Right Roof Live Load 1	-0.029 Kips	-0.042 Kips	0.000 Kips
Pattern Roof Live Load 1	6.255 Kips	3.027 Kips	0.000 Kips
Roof Collateral Load	0.261 Kips	0.126 Kips	0.000 Kips
Roof Dead Load	1.857 Kips	0.730 Kips	0.000 Kips
Roof Live Load	6.718 Kips	2.977 Kips	0.000 Kips
Roof Snow Load	1.921 Kips	0.872 Kips	0.000 Kips
Unbalanced Roof Snow Load Left	2.130 Kips	0.893 Kips	0.000 Kips
Unbalanced Roof Snow Load Right	1.249 Kips	0.893 Kips	0.000 Kips

**Column 2 (SWA)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Brace Downward forces due to Longitudinal Wind	-0.004 Kips	0.007 Kips	0.000 Kips
Brace Downward forces due to Seismic	-0.001 Kips	0.001 Kips	0.000 Kips
Brace Upward forces due to Longitudinal Wind	0.004 Kips	-0.008 Kips	0.000 Kips
Brace Upward forces due to Seismic	0.001 Kips	-0.001 Kips	0.000 Kips
Lateral Primary Wind Load 1	-6.988 Kips	1.430 Kips	0.000 Kips
Lateral Primary Wind Load 2	-3.205 Kips	0.679 Kips	0.000 Kips
Lateral Primary Wind Load 3	-9.517 Kips	5.031 Kips	0.000 Kips
Lateral Primary Wind Load 4	-5.733 Kips	4.280 Kips	0.000 Kips
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Longitudinal Primary Wind Load 1	-9.657 Kips	2.730 Kips	0.000 Kips
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Unbalanced Roof Snow Load Right	2.130 Kips	-0.893 Kips	0.000 Kips

Design Data Frame(s): 3

Inside Clearance	41'-10 1/2"	Peak Clearance	14'-10 1/2"
		Peak Rafter Depth	12.00"

Column 1 (SWC)

**Column Depth**

Base	9.50"
Knee	9.50"

**Knee**

Rafter Depth	12.00"
Clearance	9'-7 1/2"

**Anchor Rods**

Quantity	4
Diameter	0.75"
Gauge	4.00"

**Base Plate**

Length	9.50"
Width	6.00"
Thickness	0.38"

**Maximum Reactions**

Vertical	8.92 Kips	-10.92 Kips
Horizontal	4.00 Kips	-4.59 Kips
Logitudinal	0.00 Kips	-2.44 Kips

New Building A - Multiuse Bldg Continued...

Design Data Frame(s): 3 Continued...

Column 2 (SWA)

**Column Depth**

Base	9.50"
Knee	9.50"

**Knee**

Rafter Depth	12.00"
Clearance	9'-7 1/2"

**Anchor Rods**

Quantity	4
Diameter	0.75"
Gauge	4.00"

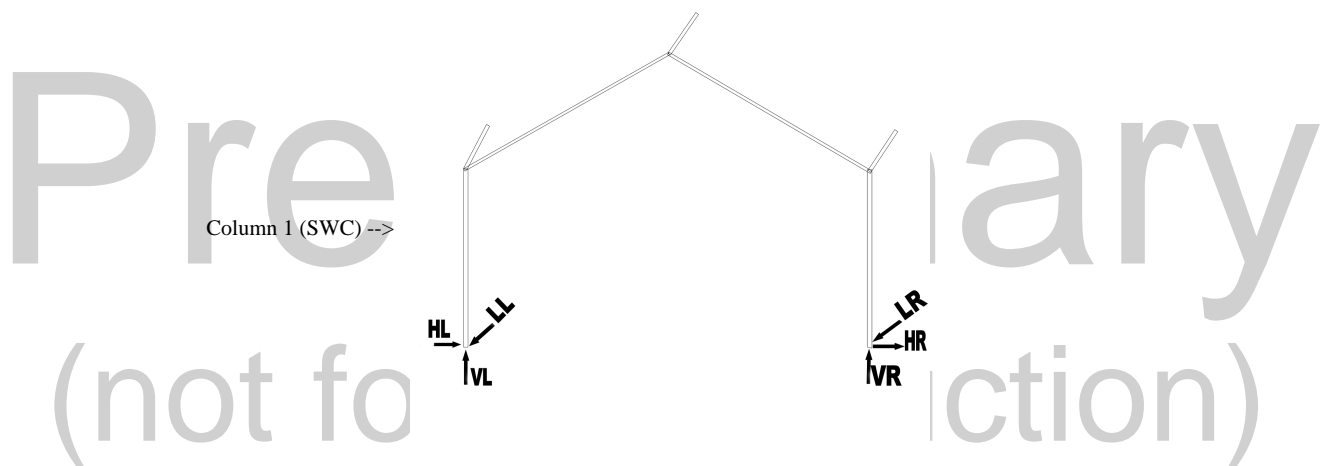
**Base Plate**

Length	9.50"
Width	6.00"
Thickness	0.38"

**Maximum Reactions**

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Combined Load Combination Reactions control the design of the anchor rods. These load combinations were determined from the appropriate IBC section regarding load combinations using allowable stress design. The load combinations of these reactions may not be the controlling combinations required for the design of the produced foundation. It is the responsibility of the foundation engineer to determine the load combinations which are required for the design of the foundation.



Individual Loads - Unfactored

**Column 1 (SWC)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
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Unbalanced Roof Snow Load Right	1.249 Kips	0.893 Kips	0.000 Kips

**Column 2 (SWA)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
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New Building A - Multiuse Bldg Continued...

Design Data Frame(s): 3 Continued...

Individual Loads - Unfactored Continued...

Lateral Seismic Load	0.058 Kips	-0.123 Kips	0.000 Kips
Longitudinal Primary Wind Load 1	-9.657 Kips	2.730 Kips	0.000 Kips
Longitudinal Primary Wind Load 2	-10.877 Kips	2.329 Kips	0.000 Kips
Longitudinal Primary Wind Load 3	-6.034 Kips	1.020 Kips	0.000 Kips
Longitudinal Primary Wind Load 4	-6.548 Kips	0.851 Kips	0.000 Kips
Pattern Left Roof Live Load 1	-0.029 Kips	0.042 Kips	0.000 Kips
Pattern Right Roof Live Load 1	0.492 Kips	0.042 Kips	0.000 Kips
Pattern Roof Live Load 1	6.255 Kips	-3.027 Kips	0.000 Kips
Roof Collateral Load	0.261 Kips	-0.126 Kips	0.000 Kips
Roof Dead Load	1.857 Kips	-0.730 Kips	0.000 Kips
Roof Live Load	6.718 Kips	-2.977 Kips	0.000 Kips
Roof Snow Load	1.921 Kips	-0.872 Kips	0.000 Kips
Unbalanced Roof Snow Load Left	1.249 Kips	-0.893 Kips	0.000 Kips
Unbalanced Roof Snow Load Right	2.130 Kips	-0.893 Kips	0.000 Kips

Endwall EWB

Column 1 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 2 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 3 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 4 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Individual Loads - Unfactored

**Column 1 (Hot Rolled)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Balanced Roof Snow	0.026 Kips	0.001 Kips	0.000 Kips
Collateral Load	0.003 Kips	0.000 Kips	0.000 Kips
Dead Load	0.284 Kips	-0.015 Kips	0.000 Kips
Live Load	0.563 Kips	-0.039 Kips	0.000 Kips
Seismic Force Left	0.000 Kips	0.000 Kips	0.000 Kips
Seismic Force Right	0.000 Kips	0.000 Kips	0.000 Kips
Snow Load	0.102 Kips	-0.007 Kips	0.000 Kips
SUL	-0.077 Kips	-0.012 Kips	0.000 Kips
SUR	-0.046 Kips	-0.005 Kips	0.000 Kips
Wind Force Left	-1.646 Kips	0.099 Kips	0.000 Kips
Wind Force Right	-1.646 Kips	0.099 Kips	0.000 Kips
Wind Load as Inward Pressure	-0.346 Kips	-0.036 Kips	0.000 Kips
Wind Load as Outward Pressure	-1.646 Kips	0.099 Kips	0.000 Kips

**Column 2 (Hot Rolled)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Balanced Roof Snow	0.983 Kips	0.000 Kips	0.006 Kips
Collateral Load	0.129 Kips	0.000 Kips	0.001 Kips
Dead Load	1.034 Kips	0.000 Kips	0.006 Kips
Live Load	4.942 Kips	0.000 Kips	0.030 Kips
Seismic Force Left	-0.062 Kips	-0.116 Kips	0.000 Kips
Seismic Force Right	0.062 Kips	0.000 Kips	0.000 Kips
Snow Load	0.983 Kips	0.000 Kips	0.006 Kips
SUL	0.710 Kips	0.000 Kips	0.004 Kips
SUR	1.302 Kips	0.000 Kips	0.008 Kips
Wind Force Left	-8.780 Kips	-0.969 Kips	-0.051 Kips
Wind Force Right	-7.734 Kips	0.000 Kips	-0.051 Kips

New Building A - Multiuse Bldg Continued...

Individual Loads - Unfactored Continued...

Wind Load as Inward Pressure	-8.257 Kips	0.000 Kips	2.077 Kips
Wind Load as Outward Pressure	-8.257 Kips	0.000 Kips	-2.405 Kips
<b>Column 3 (Hot Rolled)</b>	<b>Vertical</b>	<b>Horizontal</b>	<b>Longitudinal</b>
Balanced Roof Snow	0.983 Kips	0.000 Kips	0.006 Kips
Collateral Load	0.129 Kips	0.000 Kips	0.001 Kips
Dead Load	1.034 Kips	0.000 Kips	0.006 Kips
Live Load	4.942 Kips	0.000 Kips	0.030 Kips
Seismic Force Left	0.062 Kips	0.000 Kips	0.000 Kips
Seismic Force Right	-0.062 Kips	0.116 Kips	0.000 Kips
Snow Load	0.983 Kips	0.000 Kips	0.006 Kips
SUL	1.302 Kips	0.000 Kips	0.008 Kips
SUR	0.710 Kips	0.000 Kips	0.004 Kips
Wind Force Left	-7.734 Kips	0.000 Kips	-0.051 Kips
Wind Force Right	-8.780 Kips	0.969 Kips	-0.051 Kips
Wind Load as Inward Pressure	-8.257 Kips	0.000 Kips	2.077 Kips
Wind Load as Outward Pressure	-8.257 Kips	0.000 Kips	-2.405 Kips

<b>Column 4 (Hot Rolled)</b>	<b>Vertical</b>	<b>Horizontal</b>	<b>Longitudinal</b>
Balanced Roof Snow	0.026 Kips	-0.001 Kips	0.000 Kips
Collateral Load	0.003 Kips	0.000 Kips	0.000 Kips
Dead Load	0.284 Kips	0.015 Kips	0.000 Kips
Live Load	0.563 Kips	0.039 Kips	0.000 Kips
Seismic Force Left	0.000 Kips	0.000 Kips	0.000 Kips
Seismic Force Right	0.000 Kips	0.000 Kips	0.000 Kips
Snow Load	0.103 Kips	0.007 Kips	0.000 Kips
SUL	-0.046 Kips	0.005 Kips	0.000 Kips
SUR	-0.077 Kips	0.012 Kips	0.000 Kips
Wind Force Left	-1.646 Kips	-1.303 Kips	0.000 Kips
Wind Force Right	-1.646 Kips	1.336 Kips	0.000 Kips
Wind Load as Inward Pressure	-0.346 Kips	0.038 Kips	0.000 Kips
Wind Load as Outward Pressure	-1.646 Kips	-0.109 Kips	0.000 Kips

Rafters

#	Rafter Type	Rafter Depth
1	Hot Rolled	7.68"
2	Hot Rolled	7.68"

Endwall EWD

Column 1 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 2 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 3 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Column 4 (Hot Rolled)

Anchor Rods	4	Base Plate Width	6.00"
Anchor Rods Diameter	0.63"	Base Plate Length	8.00"
Column Depth	7.89"	Base Plate Thickness	0.38"
Flange Width	3.94"		

Individual Loads - Unfactored

<b>Column 1 (Hot Rolled)</b>	<b>Vertical</b>	<b>Horizontal</b>	<b>Longitudinal</b>
Balanced Roof Snow	0.026 Kips	0.001 Kips	0.000 Kips
Collateral Load	0.003 Kips	0.000 Kips	0.000 Kips
Dead Load	0.284 Kips	-0.015 Kips	0.000 Kips
Live Load	0.563 Kips	-0.039 Kips	0.000 Kips
Seismic Force Left	0.000 Kips	0.000 Kips	0.000 Kips

New Building A - Multiuse Bldg Continued...

Individual Loads - Unfactored Continued...

Seismic Force Right	0.000 Kips	0.000 Kips	0.000 Kips
Snow Load	0.102 Kips	-0.007 Kips	0.000 Kips
SUL	-0.129 Kips	-0.007 Kips	0.000 Kips
SUR	0.006 Kips	-0.010 Kips	0.000 Kips
Wind Force Left	-1.646 Kips	-1.095 Kips	0.000 Kips
Wind Force Right	-1.646 Kips	1.544 Kips	0.000 Kips
Wind Load as Inward Pressure	-0.346 Kips	-0.036 Kips	0.000 Kips
Wind Load as Outward Pressure	-1.646 Kips	0.099 Kips	0.000 Kips

**Column 2 (Hot Rolled)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Balanced Roof Snow	0.983 Kips	0.000 Kips	0.006 Kips
Collateral Load	0.129 Kips	0.000 Kips	0.001 Kips
Dead Load	1.034 Kips	0.000 Kips	0.006 Kips
Live Load	4.942 Kips	0.000 Kips	0.030 Kips
Seismic Force Left	-0.063 Kips	-0.116 Kips	0.000 Kips
Seismic Force Right	0.063 Kips	0.000 Kips	0.000 Kips
Snow Load	0.983 Kips	0.000 Kips	0.006 Kips
SUL	0.710 Kips	0.000 Kips	0.004 Kips
SUR	1.302 Kips	0.000 Kips	0.008 Kips
Wind Force Left	-8.780 Kips	-0.969 Kips	-0.051 Kips
Wind Force Right	-7.734 Kips	0.000 Kips	-0.051 Kips
Wind Load as Inward Pressure	-8.257 Kips	0.000 Kips	2.077 Kips
Wind Load as Outward Pressure	-8.257 Kips	0.000 Kips	-2.405 Kips

**Column 3 (Hot Rolled)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Balanced Roof Snow	0.983 Kips	0.000 Kips	0.006 Kips
Collateral Load	0.129 Kips	0.000 Kips	0.001 Kips
Dead Load	1.034 Kips	0.000 Kips	0.006 Kips
Live Load	4.942 Kips	0.000 Kips	0.030 Kips
Seismic Force Left	0.063 Kips	0.000 Kips	0.000 Kips
Seismic Force Right	-0.063 Kips	0.116 Kips	0.000 Kips
Snow Load	0.983 Kips	0.000 Kips	0.006 Kips
SUL	1.302 Kips	0.000 Kips	0.008 Kips
SUR	0.710 Kips	0.000 Kips	0.004 Kips
Wind Force Left	-7.734 Kips	0.000 Kips	-0.051 Kips
Wind Force Right	-8.780 Kips	0.969 Kips	-0.051 Kips
Wind Load as Inward Pressure	-8.257 Kips	0.000 Kips	2.077 Kips
Wind Load as Outward Pressure	-8.257 Kips	0.000 Kips	-2.405 Kips

**Column 4 (Hot Rolled)**

	<u>Vertical</u>	<u>Horizontal</u>	<u>Longitudinal</u>
Balanced Roof Snow	0.026 Kips	-0.001 Kips	0.000 Kips
Collateral Load	0.003 Kips	0.000 Kips	0.000 Kips
Dead Load	0.284 Kips	0.015 Kips	0.000 Kips
Live Load	0.563 Kips	0.039 Kips	0.000 Kips
Seismic Force Left	0.000 Kips	0.000 Kips	0.000 Kips
Seismic Force Right	0.000 Kips	0.000 Kips	0.000 Kips
Snow Load	0.103 Kips	0.007 Kips	0.000 Kips
SUL	0.006 Kips	0.010 Kips	0.000 Kips
SUR	-0.129 Kips	0.007 Kips	0.000 Kips
Wind Force Left	-1.646 Kips	-0.109 Kips	0.000 Kips
Wind Force Right	-1.646 Kips	-0.109 Kips	0.000 Kips
Wind Load as Inward Pressure	-0.346 Kips	0.038 Kips	0.000 Kips
Wind Load as Outward Pressure	-1.646 Kips	-0.109 Kips	0.000 Kips

Rafters

#	<u>Rafter Type</u>	<u>Rafter Depth</u>
1	Hot Rolled	7.68"
2	Hot Rolled	7.68"

Design Notes