



RIGID FRAME:

BASIC COLUMN REACTIONS (UNFACTORED) (k)

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Wind_L1---		---Wind_R1---		---Wind_L2---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
5	I	0.77	3.31	1.31	5.19	7.11	28.14	-7.78	19.45	0.49	-15.57	-7.20	-4.11
5	E	-0.77	3.90	-1.31	5.62	-7.11	30.48	-4.43	-14.90	4.23	-18.78	-0.48	0.23

Frame Line	Column Line	---Wind_R2---		---Seismic_L---		---Seismic_R---		---LnWind_L---		---LnWind_R---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
5	I	1.07	-0.23	-1.70	-1.40	1.70	1.40	-1.61	-25.45	-1.61	-25.45
5	E	8.17	-3.64	-1.66	1.40	1.66	-1.40	-3.05	-23.71	-3.05	-23.71

ENDWALL COLUMN: REACTIONS (UNFACTORED), ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	-----Column_Reactions (k)-----										Anc. Bolt NoD(in)	Base Plate (in)				Grout (in)
		Dead Vert	Coll Vert	Live Vert	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Out-Of-Plane Wd P Horiz	Out-Of-Plane Wd S Horiz	Wid		Len	Thk			
4	E	1.2	0.7	3.6	0.0	5.2	2.5	-6.0	-3.7	4.0	2	0.750	8.000	8.500	0.375	0.0	
4	F	4.1	3.2	17.6	5.2	19.7	0.0	8.5	9.3	10.0	4	0.750	10.00	21.50	0.500	0.0	
4	I	2.2	1.3	7.1	0.0	4.9	0.0	4.9	-6.2	6.6	2	0.750	10.00	8.500	0.500	0.0	
6	E	0.7	0.7	4.0	1.8	-4.9	0.0	1.7	-2.7	2.9	4	0.875	6.000	8.500	0.375	0.0	
6	G	1.9	2.2	11.8	0.0	-6.4	3.8	-13.0	-7.1	7.6	4	0.875	8.000	8.500	0.375	0.0	
6	I	0.8	0.7	3.8	0.0	-2.7	0.0	-2.7	-3.2	3.4	4	0.875	6.000	8.500	0.375	0.0	

RIGID FRAME: MAXIMUM REACTIONS (FACTORED), ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Load Id	Column Reactions (k)						Anc. Bolt No D(in)	Base Plate (in)				Grout (in)
			Load Hmax H	V Vmax	Load Hmin H	V Vmin	Wid	Len		Thk				
5	I	1	9.2	36.6	3	-7.3	-17.5	6	0.750	6.000	17.25	0.500	156	
5	E	4	7.7	-1.3	2	-10.7	21.2	4	0.750	8.000	13.25	0.500	72.0	
		1	-9.2	40.0	5	-3.5	-21.4							

BRACING REACTIONS (UNFACTORED), PANEL SHEAR

Wall Loc	Col Line	± Reactions (k)				Panel Shear (lb/ft)
		Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	
L_EW	4	F	3.9	5.7	2.6	3.7
		E	1.9	2.7	2.6	3.7
F_SW	4	5	6.1	6.7	2.4	2.6
R_EW	6	E	1.4	1.6	1.8	2.1
		G	2.9	3.3	1.8	2.1
B_SW	5	4	6.4	8.1	2.4	3.0

NOTES FOR REACTIONS

- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:
 - Width (ft) = 47.2
 - Length (ft) = 40.6
 - Eave Height (ft) = 32.3/28.4
 - Roof Slope (rise/12) = 1.0
 - Dead Load (psf) = 4.0
 - Collateral Load (psf) = 9.0
 - Live Load (psf) = 49.0
 - Snow Load (psf) = 49.0
 - Wind Speed (mph) = 100.0
 - Wind Code = IBC 03
 - Exposure = C
 - Closed/Open = P
 - Importance - Wind = 1.10
 - Importance - Seismic = 1.00
 - Seismic Coeff (Fa*Ss) = 0.60
- Loading conditions are:
 - DL+CL+LL
 - DL+CL+0.75LL+0.75WL1
 - 0.60DL+WL1
 - 0.60DL+WR2
 - 0.60DL+LnWndL
 - 0.60DL+0.60CL
 - 0.60DL+WR1+WS
 - 0.60DL+WP
 - 0.60DL+WL1+WS
 - DL+CL+0.75LL+0.75WL2+0.75WS
 - DL+CL+0.75LL

GENERAL NOTES

- INFORMATION ON THIS DRAWING IS INTENDED FOR CONSTRUCTION ONLY WHEN BEARING A STEELWAY ENGINEERS SIGNED PROFESSIONAL SEAL AND WHEN FREE OF ANY NOTATIONS STATING OTHERWISE.
- FOUNDATION DESIGN AND CONSTRUCTION IS NOT THE RESPONSIBILITY OF STEELWAY BUILDING SYSTEMS.
- THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATIONS.
- THE ENDWALL WIND LOAD REACTIONS INCLUDE REACTIONS FROM ENDWALL BRACING.
- COLUMN BASE PLATES ARE DESIGNED ASSUMING A MINIMUM SPECIFIED COMPRESSIVE STRENGTH (fc') OF CONCRETE OF 2,900 P.S.I. (20 MPA) AT 28 DAYS.
- ANCHOR BOLT DIAMETER, QUANTITY AND PLACEMENT SHOULD BE AS SHOWN.
- THE EMBEDMENT OF THE ANCHOR BOLTS IN THE CONCRETE IS THE RESPONSIBILITY OF THE FOUNDATION DESIGNER. THE FRAME REACTIONS LISTED ARE THE MINIMUM LOADS TO BE DEVELOPED.
- ALL ANCHOR BOLTS ARE TO BE ASTM A307 OR EQUAL.
- ALL REACTIONS ARE IN KIPS OR KIP- FEET.
- MAXIMUM RIGID FRAME REACTIONS INCLUDE WIND AND SEISMIC REACTIONS FROM SIDEWALL BRACING.

BUILDER IRISHSPAN INDUSTRIES INC.	PROJECT SHIPYARD BREWING CO.	DWG # 73178-R4	0 REV.	ISSUED FOR INFORMATION DESCRIPTION	05/10/07 DATE	TSD BY
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