

WIND BENT REACTIONS (30x144)

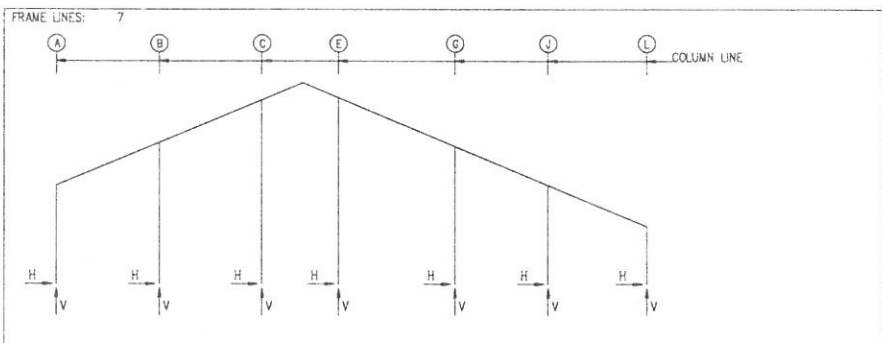
Loc	Line	Col Line	± Reactions		
			Horz	Vert	Seismic(k)
F_SW	L	6	11.4	5.5	1.6
F_SW	A	7	11.4	9.5	1.6
B_SW	A	6	13.4	20.4	1.6
B_SW	A	6	13.4	20.4	1.6

ANCHOR BOLT SUMMARY (30x144)

28 Frame 7 3/4" A307 3.00

- GENERAL NOTES**
- FOUNDATION DESIGN AND CONSTRUCTION ARE NOT THE RESPONSIBILITY OF ESSEX STRUCTURAL STEEL COMPANY, INC.
 - THE BUILDING REACTION DATA REPORTS THE LOADS WHICH THIS BUILDING PLACES ON THE FOUNDATION.
 - ANCHOR BOLTS SHALL BE ACCURATELY SET TO A TOLERANCE OF $\pm 1/8"$ IN BOTH ELEVATION AND LOCATION.
 - COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED A BEARING PRESSURE OF 1125 POUNDS PER SQUARE INCH.
 - ALL COLUMN BASE PLATES ARE TO BE SET AT FINISHED FLOOR ELEVATION OF 100'-0" UNLESS OTHERWISE NOTED ON THE ANCHOR BOLT SETTING PLAN.....
 - SEE REACTION TABLES FOR PROPER BASE PLATE WIDTHS AND LENGTHS.

- 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) = 144.0
 - Length (ft) = 30.3
 - Eave Height (ft) = 24.0/ 14.0
 - Roof Slope (rise/12) = 5.0/ 5.0
 - Dead Load (psf) = 5.0
 - Collateral Load (psf) = 5.0
 - Live Load (psf) = 42.0
 - Snow Load (psf) = 42.0
 - Wind Speed (mph) = 115.0
 - Wind Code = IBC 09
 - Exposure = C
 - Closed/Open = C
 - Importance Wind = 1.00
 - Importance Seismic = 1.00
 - Seismic Design Category = B
 - Seismic Coeff (FoS) = 0.36
 - Loading conditions are:
 - 1 Dead+Collateral+Snow+Side_Snow
 - 2 Dead+Collateral+0.75Live+0.75Wind_Long2+0.75LWIND2_R2E
 - 3 Dead+Collateral+0.75Snow+0.75Wind_Left2+0.75Side_Snow
 - 4 0.5Dead+Wind_Left1
 - 5 0.5Dead+Wind_Right1
 - 6 0.5Dead+Wind_Left2
 - 7 0.5Dead+Wind_Right2
 - 8 0.5Dead+Wind_Long1+LWIND1_L2E
 - 9 0.5Dead+Wind_Long1+LWIND1_R2E
 - 10 0.5Dead+Wind_Long1+LWIND1_L2E
 - 11 1.0Dead+1.0Collateral+0.7Seismic_Right
 - 12 Dead+Collateral+FLUNB_S_L
 - 13 Dead+Collateral+FLUNB_S_R
 - 14 0.5Dead+Wind_Right2+Wind_Suction
 - 15 0.5Dead+Wind_Pressure+Wind_Long1
 - 16 0.5Dead+Wind_Left2+Wind_Suction
 - 17 0.5Dead+Wind_Suction+Wind_Long1
 - 18 0.5Dead+Wind_Left1+Wind_Suction
 - 19 0.5Dead+Wind_Pressure+Wind_Long2

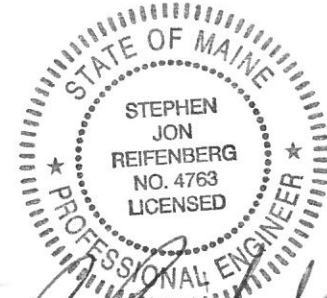
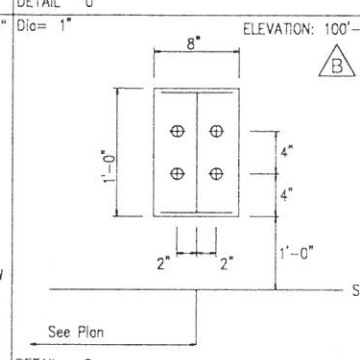
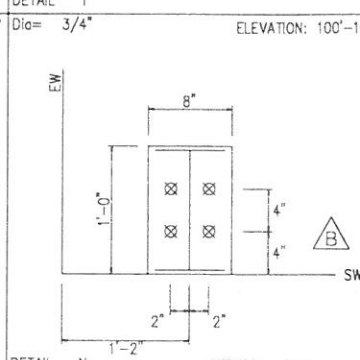
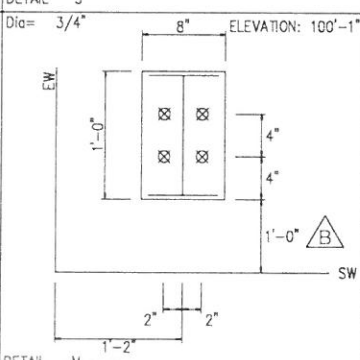
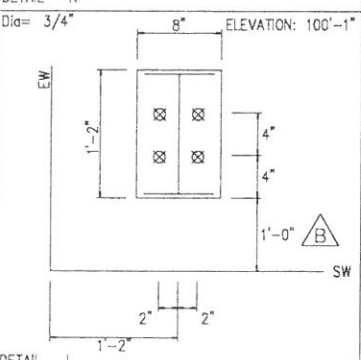
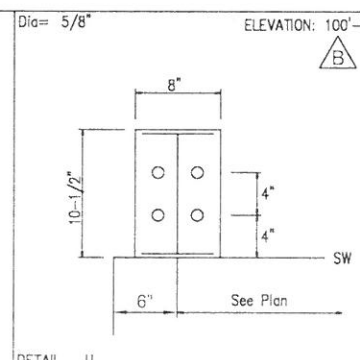
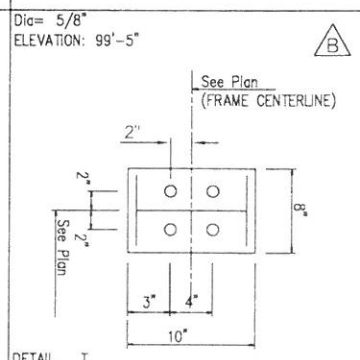
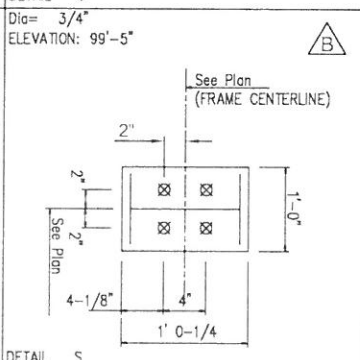
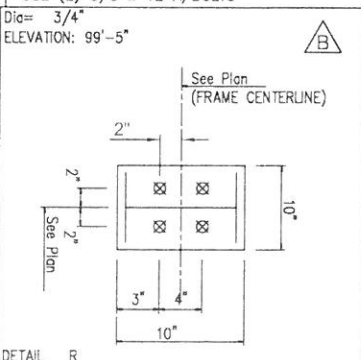
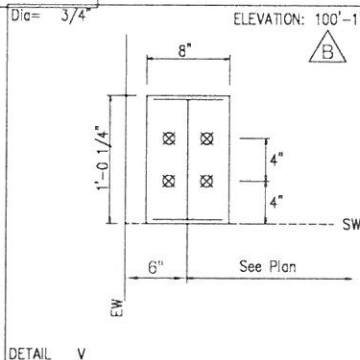
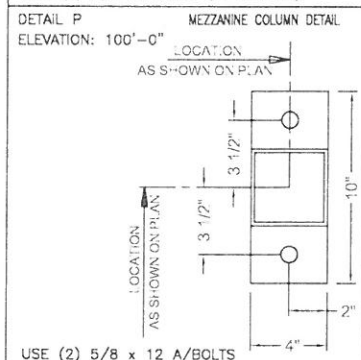
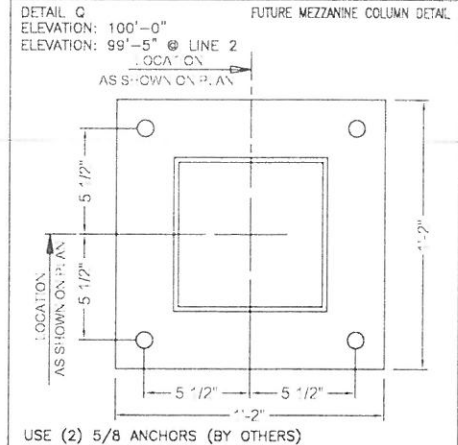


RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty	Base Plate (in)			Grout (in)	
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin		Width	Length	Thick		
7	A	5	3.6	-8.3	6	-4.1	-4.1	4	0.750	8.000	12.00	0.500	0.0
7	L	7	5.4	-2.7	4	-7.9	3.1	4	0.750	8.000	12.00	0.375	0.0
7	B	8	0.0	-10.8	8	0.0	-10.8	4	0.625	8.000	14.00	0.500	0.0
7	C	4	0.0	-3.1	4	0.0	-3.1	4	0.625	8.000	14.00	0.375	0.0
7	E	4	0.0	-3.1	4	0.0	-3.1	4	0.750	10.00	14.00	0.375	0.0
7	G	10	0.0	-10.8	10	0.0	-10.8	4	0.750	10.00	14.00	0.375	0.0
7	J	4	0.0	-12.2	4	0.0	-12.2	4	0.750	8.000	14.00	0.375	0.0

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty	Base Plate (in)			Grout (in)	
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin		Width	Length	Thick		
6	B	16	12.4	1.2	17	-11.4	1.2	4	0.625	10.00	14.25	0.375	0.0
6	C	16	27.8	2.4	17	-25.4	2.4	4	0.750	15.00	14.50	0.250	0.0
6	I	16	14.1	0.9	17	-12.9	0.9	4	0.625	10.00	14.25	0.375	0.0
6	J	16	5.8	0.4	17	-5.3	0.4	4	0.625	8.000	14.25	0.375	0.0
7	J	14	7.1	0.3	19	-6.5	0.3	4	0.750	8.000	14.00	0.375	0.0
7	G	14	11.4	0.5	19	-10.4	0.5	4	0.750	8.000	14.25	0.375	0.0
7	E	14	14.7	1.5	19	-13.5	1.5	4	0.750	10.00	14.25	0.375	0.0
7	C	14	13.5	1.3	19	-12.3	1.3	4	0.750	10.00	14.25	0.375	0.0
7	B	11	11.5	0.6	19	-10.5	0.6	4	0.750	8.000	14.25	0.375	0.0



Stephen Jon Reifenberg
9/17/14

ERECTION REQUIRES MINOR ADJUSTMENTS

ESSEX STRUCTURAL STEEL CO., INC.
CORTLAND, NEW YORK 13045

REVISIONS	PROJECT: CANAL LANDING 100 WEST COMMERCIAL STREET PORTLAND, MAINE 04101
REV. A, 7/14/2014, JCK: REVISED	CONTRACTOR: IRISHSPAN INDUSTRIES
DETAILS L, M ADDED P, Q.	PROJECT NO: S-1458
REVISED COL. LETTERS @ LINE 7	TITLE: REACTIONS (30x144 PART)
REV. B, 7/16/2014, JCK: REVISED	DETAILS L, M ADDED R S T U V
REV. C, 7/22/2014, JCK: DELETED 6.1	DRAWN BY: WPK
REV. D, 8/21/2014, JCK: DET. Q ELEV	DATE: 6/23/14
	SCALE: D.N.S.

SHEET: 2A