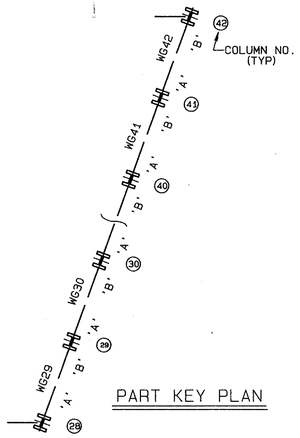
WIND GIRDERS (EAST WALL)

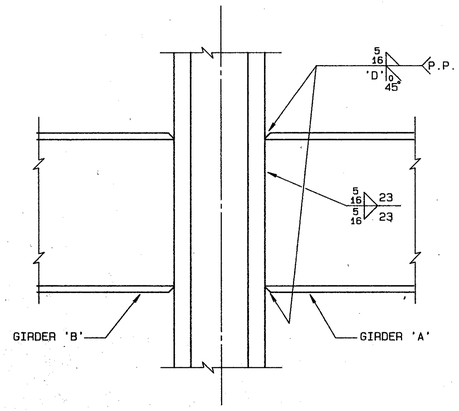
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	MID SPAN CONN FLG PL	FLG BOLTS
97/11	WG29	14, 15	W36X210	A783	850	159	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
96/11	WG30	14, 15	W36X210	B782	890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG31	14, 15	W36X210	⊥	890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG32	14, 15	W36X210	C782	930	209	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 3/4 X 2'-7 1/2 - C751	8
	WG33	14, 15	W36X210	B782	920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG34	14, 15	W36X210	|	930	189	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG35	14, 15	W36X210	|	940	191	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG36	14, 15	W36X210	⊥	940	191	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG37	14, 15	W36X210	C782	920	207	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 3/4 X 2'-7 1/2 - C751	8
	WG38	14, 15	W36X210	B782	920	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG39	14, 15	W36X210	|	930	189	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG40	14, 15	W36X210	|	890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG41	14, 15	W36X210	⊥	880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
97/13	WG42	14, 15	W36X210	C783	800	160	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
97/11	WG29	16, 17	W36X210	A783	790	149	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
96/11	WG30	16, 17	W36X210	B782	840	171	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG31	16, 17	W36X210	⊥	860	175	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG32	16, 17	W36X210	C782	900	203	10 1/2 X 1/2 X 2'-0 1/2 - B750	8	9 X 3/4 X 2'-7 1/2 - C751	8
	WG33	16, 17	W36X210	B782	890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG34	16, 17	W36X210	|	900	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG35	16, 17	W36X210	|	900	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG36	16, 17	W36X210	|	910	185	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG37	16, 17	W36X210	|	890	201	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG38	16, 17	W36X210	|	880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG39	16, 17	W36X210	|	900	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG40	16, 17	W36X210	|	850	173	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG41	16, 17	W36X210	⊥	830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
97/13	WG42	16, 17	W36X210	C783	720	146	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8



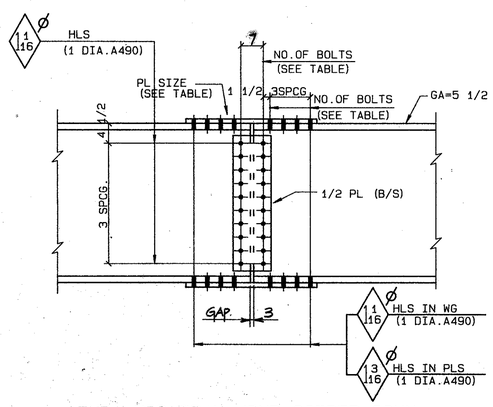
PART KEY PLAN

COLUMNS (EAST WALL)

COLUMN NO.	FLOOR	SIZE	GIRDER 'A' NO.	GIRDER 'A' SIZE	GIRDER 'A' WELD 'D'	GIRDER 'B' NO.	GIRDER 'B' SIZE	GIRDER 'B' WELD 'D'	DOUBLER PL
28	14, 15	W14X730	WG29	W36X210	1 1/8	–	–	–	
29	14, 15	W14X665	WG30	W36X210	1 1/8	WG29	W36X210	1 1/8	–
30	14, 15	W14X550	WG31	W36X210	1 1/8	WG30	W36X210	1 1/8	–
31	14, 15	W14X550	WG32	W36X210	1 1/4	WG31	W36X210	1 1/8	–
32	14, 15	W14X500	WG33	W36X210	1 1/4	WG32	W36X210	1 1/4	–
33	14, 15	W14X500	WG34	W36X210	1 1/4	WG33	W36X210	1 1/4	–
34	14, 15	W14X500	WG35	W36X210	1 1/4	WG34	W36X210	1 1/4	–
35	14, 15	W14X500	WG36	W36X210	1 1/4	WG35	W36X210	1 1/4	–
36	14, 15	W14X500	WG37	W36X210	1 1/4	WG36	W36X210	1 1/4	–
37	14, 15	W14X500	WG38	W36X210	1 1/4	WG37	W36X210	1 1/4	–
38	14, 15	W14X500	WG39	W36X210	1 1/4	WG38	W36X210	1 1/4	–
39	14, 15	W14X550	WG40	W36X210	1 1/8	WG39	W36X210	1 1/4	–
40	14, 15	W14X550	WG41	W36X210	1 1/8	WG40	W36X210	1 1/8	–
41	14, 15	W14X665	WG42	W36X210	1	WG41	W36X210	1 1/8	–
42	14, 15	W14X730	–	–	–	WG42	W36X210	1	–
28	16, 17	W14X730	WG29	W36X210	1	–	–	–	–
29	16, 17	W14X665	WG30	W36X210	1 1/8	WG29	W36X210	1	–
30	16, 17	W14X550	WG31	W36X210	1 1/8	WG30	W36X210	1 1/8	–
31	16, 17	W14X550	WG32	W36X210	1 1/8	WG31	W36X210	1 1/8	–
32	16, 17	W14X500	WG33	W36X210	1 1/8	WG32	W36X210	1 1/8	–
33	16, 17	W14X500	WG34	W36X210	1 1/8	WG33	W36X210	1 1/8	–
34	16, 17	W14X500	WG35	W36X210	1 1/8	WG34	W36X210	1 1/8	–
35	16, 17	W14X500	WG36	W36X210	1 1/4	WG35	W36X210	1 1/8	–
36	16, 17	W14X500	WG37	W36X210	1 1/8	WG36	W36X210	1 1/4	–
37	16, 17	W14X500	WG38	W36X210	1 1/8	WG37	W36X210	1 1/8	–
38	16, 17	W14X500	WG39	W36X210	1 1/8	WG38	W36X210	1 1/8	–
39	16, 17	W14X550	WG40	W36X210	1 1/8	WG39	W36X210	1 1/8	–
40	16, 17	W14X550	WG41	W36X210	1 1/8	WG40	W36X210	1 1/8	–
41	16, 17	W14X665	WG42	W36X210	1	WG41	W36X210	1 1/8	–
42	16, 17	W14X730	–	–	–	WG42	W36X210	1	–



TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN



TYP. MID SPAN WIND GIRDER CONN.

NOTES

STEEL GRADES - WIND GIRDERS A36, COLS A36, CONN MAT'L 44W
WELDING E70 SERIES ELECTRODES

BOLTS
FLG CONNECTIONS 1"A490F (OVS HLS) 14.9 KIPS/BOLT S.S.
(1 1/16 HLS IN FLGS-1 3/16 HLS IN PLS) 2/WASH EACH BOLT
WEB CONNECTIONS 1"A490F (STD HLS) 17.3 KIPS/BOLT S.S.

July 8/85

REV #	DESCRIPTION	DATE	MADE BY	X NO.
2				
1	GEN'L REV.	15APR85	MK	

SPEC	AS NOTED						
HOLES	AS NOTED						
FINISH							
MADE RJ/GM	DATE MAR/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER		CONTRACT	DWG. NO.	REV.
CHK'D HL	DATE APR 85	FR	DETAIL: WIND GIRD. CONN'S EAST ELEV. 14TH TO 17TH		84-15	9112	

FRANKEL STEEL LIMITED
220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2