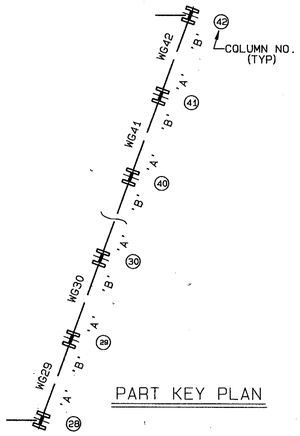
WIND GIRDERS (EAST WALL)

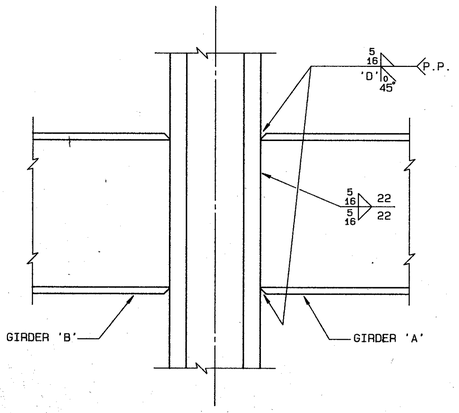
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
97/11	WG29	18, 19	W36X210	A783	740	141	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
96/11	WG30	18, 19	W36X210	A782	800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
	WG31	18, 19	W36X210	B782	810	165	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	18, 19	W36X210		870	197	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 3/4 X 2'-7 1/2 - C751	8
	WG33	18, 19	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
	WG34	18, 19	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
	WG35	18, 19	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
	WG36	18, 19	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
	WG37	18, 19	W36X210		850	193	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	18, 19	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
	WG39	18, 19	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
	WG40	18, 19	W36X210	A782	800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
	WG41	18, 19	W36X210		780	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
97/13	WG42	18, 19	W36X210	C783	670	137	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 3/4 X 2'-7 1/2 - C751	8
97/10	WG29	20, 21	W36X245	A775	820	154	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
96/9	WG30	20, 21	W36X245	A774	750	153	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
	WG31	20, 21	W36X245		800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
	WG32	20, 21	W36X245	B774	860	195	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG33	20, 21	W36X245		820	167	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG34	20, 21	W36X245		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG35	20, 21	W36X245		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG36	20, 21	W36X245		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG37	20, 21	W36X245		820	187	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG38	20, 21	W36X245		810	165	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG39	20, 21	W36X245		860	175	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG40	20, 21	W36X245	A774	780	159	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
	WG41	20, 21	W36X245		730	148	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
97/12	WG42	20, 21	W36X245	B777	730	148	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10



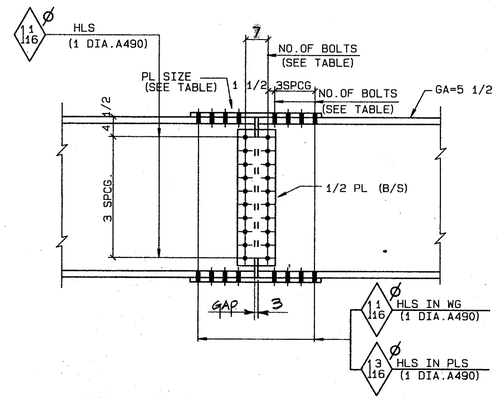
PART KEY PLAN

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'
28	18, 19	W14X730	WG29	W36X210	1	–	–	–
29	18, 19	W14X665	WG30	W36X210	1	WG29	W36X210	1
30	18, 19	W14X550	WG31	W36X210	1	WG30	W36X210	1
31	18, 19	W14X550	WG32	W36X210	1 1/8	WG31	W36X210	1
32	18, 19	W14X500	WG33	W36X210	1 1/8	WG32	W36X210	1 1/8
33	18, 19	W14X500	WG34	W36X210	1 1/8	WG33	W36X210	1 1/8
34	18, 19	W14X500	WG35	W36X210	1 1/8	WG34	W36X210	1 1/8
35	18, 19	W14X500	WG36	W36X210	1 1/8	WG35	W36X210	1 1/8
36	18, 19	W14X500	WG37	W36X210	1 1/8	WG36	W36X210	1 1/8
37	18, 19	W14X500	WG38	W36X210	1 1/8	WG37	W36X210	1 1/8
38	18, 19	W14X500	WG39	W36X210	1 1/8	WG38	W36X210	1 1/8
39	18, 19	W14X550	WG40	W36X210	1	WG39	W36X210	1 1/8
40	18, 19	W14X550	WG41	W36X210	1	WG40	W36X210	1
41	18, 19	W14X665	WG42	W36X210	7/8	WG41	W36X210	1
42	18, 19	W14X730	–	–	–	WG42	W36X210	7/8
28	20, 21	W14X730	WG29	W36X245	7/8	–	–	–
29	20, 21	W14X665	WG30	W36X245	3/4	WG29	W36X245	7/8
30	20, 21	W14X550	WG31	W36X245	3/4	WG30	W36X245	3/4
31	20, 21	W14X550	WG32	W36X245	7/8	WG31	W36X245	3/4
32	20, 21	W14X500	WG33	W36X245	7/8	WG32	W36X245	7/8
33	20, 21	W14X500	WG34	W36X245	7/8	WG33	W36X245	7/8
34	20, 21	W14X500	WG35	W36X245	7/8	WG34	W36X245	7/8
35	20, 21	W14X500	WG36	W36X245	7/8	WG35	W36X245	7/8
36	20, 21	W14X500	WG37	W36X245	7/8	WG36	W36X245	7/8
37	20, 21	W14X500	WG38	W36X245	7/8	WG37	W36X245	7/8
38	20, 21	W14X500	WG39	W36X245	7/8	WG38	W36X245	7/8
39	20, 21	W14X550	WG40	W36X245	3/4	WG39	W36X245	7/8
40	20, 21	W14X550	WG41	W36X245	3/4	WG40	W36X245	3/4
41	20, 21	W14X665	WG42	W36X245	3/4	WG41	W36X245	3/4
42	20, 21	W14X730	–	–	–	WG42	W36X245	3/4



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.

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

July 8/85

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. 18TH TO 21ST		84-15	9113	

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