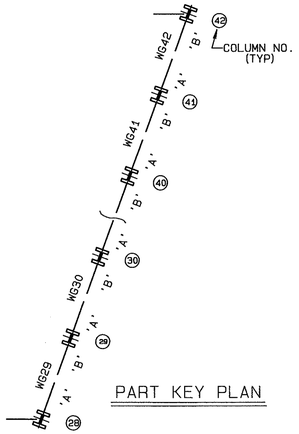
WIND GIRDERS (EAST WALL)

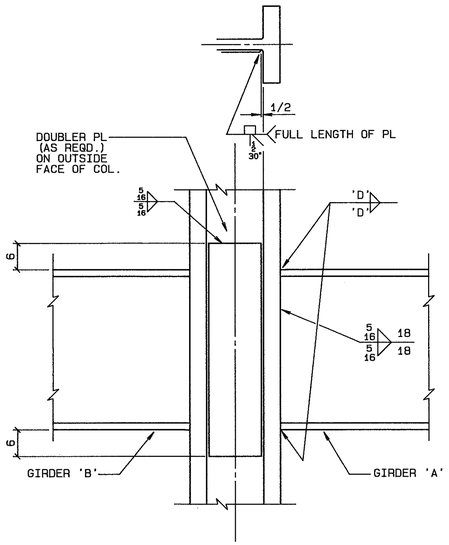
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
170/18	WG29	44, 45	W36X135	B740	210	54	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/19	WG30	44, 45	W36X135	A740	180	37	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG31	44, 45	W36X135		210	43	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG32	44, 45	W36X135		230	67	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG33	44, 45	W36X135		260	53	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG34	44, 45	W36X135		270	55	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG35	44, 45	W36X135		270	55	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG36	44, 45	W36X135		270	55	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG37	44, 45	W36X135		260	73	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG38	44, 45	W36X135		260	53	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG39	44, 45	W36X135		230	47	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG40	44, 45	W36X135		200	41	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG41	44, 45	W36X135		180	37	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/20	WG42	44, 45	W36X135	C740	200	55	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
171/23	WG29	46, 47	W33X118	B741	110	38	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/24	WG30	46, 47	W33X118	A741	120	24	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG31	46, 47	W33X118		130	26	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	1 WG32	46	W33X118		130	101	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG33	46, 47	W33X118		140	29	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG34	46, 47	W33X118		140	29	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG35	46, 47	W33X118		140	29	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG36	46, 47	W33X118		140	29	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG37	46, 47	W33X118		140	49	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG38	46, 47	W33X118		140	29	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG39	46, 47	W33X118		130	26	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG40	46, 47	W33X118		130	26	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG41	46, 47	W33X118		120	24	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/25	WG42	46, 47	W33X118	C741	110	39	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/24	WG32	47	W33X118	A741	130	46		5		6



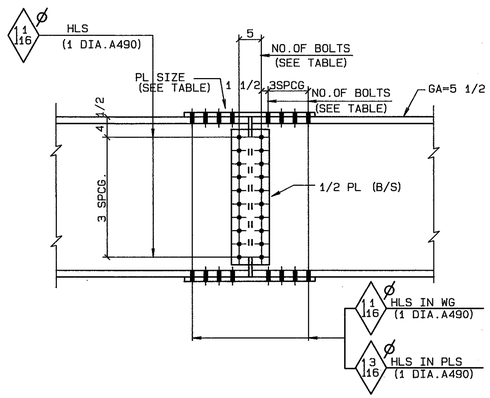
PART KEY PLAN

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	44, 45	W14X159	WG29	W36X135	5/16		–	–	–	–
29	44, 45	W14X132	WG30	W36X135	5/16		WG29	W36X135	5/16	–
30	44, 45	W14X132	WG31	W36X135	5/16		WG30	W36X135	5/16	–
31	44, 45	W14X132	WG32	W36X135	5/16		WG31	W36X135	5/16	3/8
32	44, 45	W14X176	WG33	W36X135	5/16		WG32	W36X135	5/16	–
33	44, 45	W14X176	WG34	W36X135	5/16		WG33	W36X135	5/16	–
34	44, 45	W14X193	WG35	W36X135	5/16		WG34	W36X135	5/16	–
35	44, 45	W14X193	WG36	W36X135	5/16		WG35	W36X135	5/16	–
36	44, 45	W14X193	WG37	W36X135	5/16		WG36	W36X135	5/16	–
37	44, 45	W14X176	WG38	W36X135	5/16		WG37	W36X135	5/16	–
38	44, 45	W14X176	WG39	W36X135	5/16		WG38	W36X135	5/16	–
39	44, 45	W14X132	WG40	W36X135	5/16		WG39	W36X135	5/16	3/8
40	44, 45	W14X132	WG41	W36X135	5/16		WG40	W36X135	5/16	–
41	44, 45	W14X132	WG42	W36X135	5/16		WG41	W36X135	5/16	–
42	44, 45	W14X159	–	–	–		WG42	W36X135	5/16	–
28	46, 47	W14X109	WG29	W33X118	5/16		–	–	–	–
29	46, 47	W14X109	WG30	W33X118	5/16		WG29	W33X118	5/16	–
30	46, 47	W14X109	WG31	W33X118	5/16		WG30	W33X118	5/16	–
31	46, 47	W14X109	WG32	W33X118	5/16		WG31	W33X118	5/16	–
32	46, 47	W14X109	WG33	W33X118	5/16		WG32	W33X118	5/16	–
33	46, 47	W14X145	WG34	W33X118	5/16		WG33	W33X118	5/16	–
34	46, 47	W14X145	WG35	W33X118	5/16		WG34	W33X118	5/16	–
35	46, 47	W14X145	WG36	W33X118	5/16		WG35	W33X118	5/16	–
36	46, 47	W14X145	WG37	W33X118	5/16		WG36	W33X118	5/16	–
37	46, 47	W14X145	WG38	W33X118	5/16		WG37	W33X118	5/16	–
38	46, 47	W14X109	WG39	W33X118	5/16		WG38	W33X118	5/16	–
39	46, 47	W14X109	WG40	W33X118	5/16		WG39	W33X118	5/16	–
40	46, 47	W14X109	WG41	W33X118	5/16		WG40	W33X118	5/16	–
41	46, 47	W14X109	WG42	W33X118	5/16		WG41	W33X118	5/16	–
42	46, 47	W14X109	–	–	–		WG42	W33X118	5/16	–



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	X NO.
2				
1	WG32- WEB CONN.	OCT4/85	GM	

SPEC	AS NOTED	FRANKEL STEEL LIMITED					
HOLES	AS NOTED	220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2					
FINISH							
MADE GM	DATE MAY/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER		CONTRACT	DWG. NO.	REV
CHK'D WJF	DATE July/85	FR	DETAIL: WIND GIRD. CONN'S EAST ELEV. 44TH TO 47TH		84-153	9128	