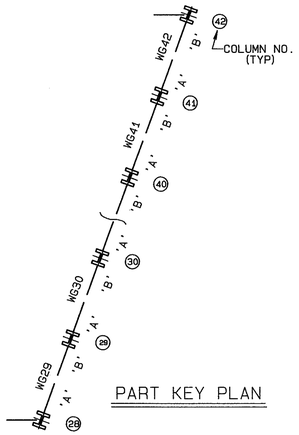
WIND GIRDERS (EAST WALL)

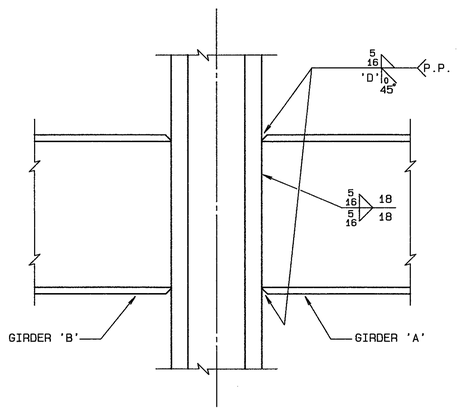
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN			
							WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
136/13	WG29	28	W36X194	B75B	660	128	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/14	WG30	28	W36X194	A75B	590	120	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG31	28	W36X194		610	124	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG32	28	W36X194		650	152	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG33	28	W36X194		670	136	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG34	28	W36X194		700	142	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG35	28	W36X194		700	142	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG36	28	W36X194		700	142	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG37	28	W36X194		690	160	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG38	28	W36X194		670	136	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG39	28	W36X194		640	130	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG40	28	W36X194		590	120	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG41	28	W36X194		570	116	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/15	WG42	28	W36X194	C75B	600	125	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/13	WG29	29	W36X194	B75B	610	120	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/14	WG30	29	W36X194	A75B	500	102	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG31	29	W36X194		560	114	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG32	29	W36X194		590	140	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG33	29	W36X194		610	124	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG34	29	W36X194		630	128	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG35	29	W36X194		670	136	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG36	29	W36X194		670	136	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG37	29	W36X194		620	146	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG38	29	W36X194		600	122	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG39	29	W36X194		590	120	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG40	29	W36X194		550	112	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG41	29	W36X194		490	100	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/15	WG42	29	W36X194	C75B	550	116	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8



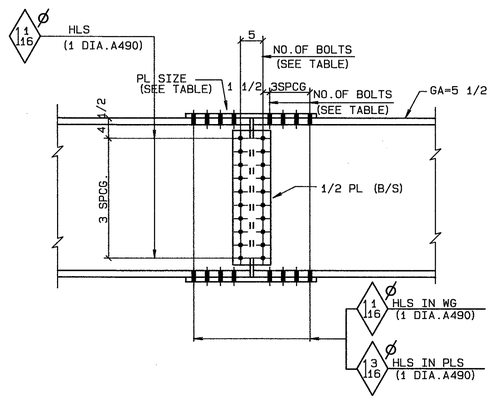
PART KEY PLAN

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	28	W14X605	WG29	W36X194	7/8	–	–	–	–
29	28	W14X426	WG30	W36X194	3/4	WG29	W36X194	7/8	–
30	28	W14X398	WG31	W36X194	7/8	WG30	W36X194	3/4	–
31	28	W14X398	WG32	W36X194	7/8	WG31	W36X194	7/8	–
32	28	W14X398	WG33	W36X194	7/8	WG32	W36X194	7/8	–
33	28	W14X398	WG34	W36X194	1	WG33	W36X194	7/8	–
34	28	W14X426	WG35	W36X194	1	WG34	W36X194	1	–
35	28	W14X426	WG36	W36X194	1	WG35	W36X194	1	–
36	28	W14X426	WG37	W36X194	7/8	WG36	W36X194	1	–
37	28	W14X398	WG38	W36X194	7/8	WG37	W36X194	7/8	–
38	28	W14X398	WG39	W36X194	7/8	WG38	W36X194	7/8	–
39	28	W14X398	WG40	W36X194	3/4	WG39	W36X194	7/8	–
40	28	W14X398	WG41	W36X194	3/4	WG40	W36X194	3/4	–
41	28	W14X426	WG42	W36X194	7/8	WG41	W36X194	3/4	–
42	28	W14X605	–	–	–	WG42	W36X194	7/8	–
28	29	W14X605	WG29	W36X194	7/8	–	–	–	–
29	29	W14X426	WG30	W36X194	3/4	WG29	W36X194	7/8	–
30	29	W14X398	WG31	W36X194	3/4	WG30	W36X194	3/4	–
31	29	W14X398	WG32	W36X194	3/4	WG31	W36X194	3/4	–
32	29	W14X398	WG33	W36X194	7/8	WG32	W36X194	3/4	–
33	29	W14X398	WG34	W36X194	7/8	WG33	W36X194	7/8	–
34	29	W14X426	WG35	W36X194	7/8	WG34	W36X194	7/8	–
35	29	W14X426	WG36	W36X194	7/8	WG35	W36X194	7/8	–
36	29	W14X426	WG37	W36X194	7/8	WG36	W36X194	7/8	–
37	29	W14X398	WG38	W36X194	3/4	WG37	W36X194	7/8	–
38	29	W14X398	WG39	W36X194	3/4	WG38	W36X194	3/4	–
39	29	W14X398	WG40	W36X194	3/4	WG39	W36X194	3/4	–
40	29	W14X398	WG41	W36X194	3/4	WG40	W36X194	3/4	–
41	29	W14X426	WG42	W36X194	3/4	WG41	W36X194	3/4	–
42	29	W14X605	–	–	–	WG42	W36X194	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	X NO.
2				
1				

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 MAY 14/85	FR	DETAIL: WIND GIRD. CONN'S EAST ELEV. 28TH & 29TH		84-152	9123	