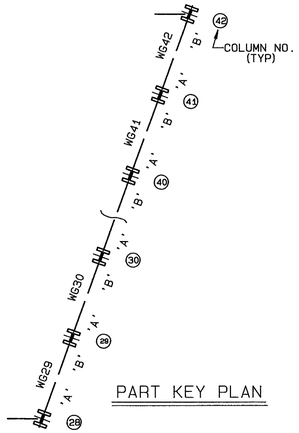
WIND GIRDERS (EAST WALL)

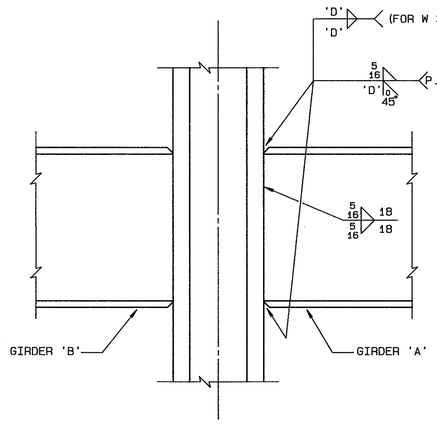
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN			
							WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
136/13	WG29	34	W36X194	B758	510	103	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
136/14	WG30	34	W36X194	A758	440	90	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG31	34	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
	WG32	34	W36X194		530	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
	WG33	34	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
	WG34	34	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
	WG35	34	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
	WG36	34	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
	WG37	34	W36X194		580	138	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	34	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
	WG39	34	W36X194		530	108	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	34	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
	WG41	34	W36X194		430	87	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	34	W36X194	C758	460	101	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
137/5	WG29	35	W36X170	B759	400	85	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
137/6	WG30	35	W36X170	A759	370	75	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	35	W36X170		410	83	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	35	W36X170		460	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
	WG33	35	W36X170		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
	WG34	35	W36X170		530	108	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	35	W36X170		530	108	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	35	W36X170		530	108	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	35	W36X170		510	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
	WG38	35	W36X170		480	98	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	35	W36X170		460	94	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	35	W36X170		400	81	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	35	W36X170		360	73	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
137/7	WG42	35	W36X170	C759	380	87	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8



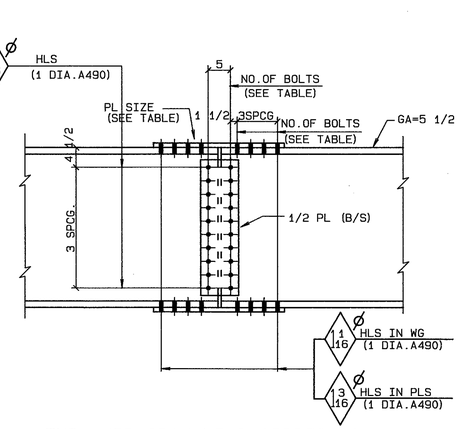
PART KEY PLAN

COLUMNS (EAST WALL)

COLUMN NO.	FLOOR	SIZE	GIRDER 'A'				GIRDER 'B'			
			NO.	SIZE	WELD 'D'		NO.	SIZE	WELD 'D'	DOUBLER PL
28	34	W14X398	WG29	W36X194	3/4		–	–	–	–
29	34	W14X311	WG30	W36X194	5/8		WG29	W36X194	3/4	–
30	34	W14X311	WG31	W36X194	5/8		WG30	W36X194	5/8	–
31	34	W14X342	WG32	W36X194	3/4		WG31	W36X194	5/8	–
32	34	W14X342	WG33	W36X194	3/4		WG32	W36X194	3/4	–
33	34	W14X370	WG34	W36X194	3/4		WG33	W36X194	3/4	–
34	34	W14X370	WG35	W36X194	3/4		WG34	W36X194	3/4	–
35	34	W14X370	WG36	W36X194	3/4		WG35	W36X194	3/4	–
36	34	W14X370	WG37	W36X194	3/4		WG36	W36X194	3/4	–
37	34	W14X370	WG38	W36X194	3/4		WG37	W36X194	3/4	–
38	34	W14X342	WG39	W36X194	3/4		WG38	W36X194	3/4	–
39	34	W14X342	WG40	W36X194	5/8		WG39	W36X194	3/4	–
40	34	W14X311	WG41	W36X194	5/8		WG40	W36X194	5/8	–
41	34	W14X311	WG42	W36X194	5/8		WG41	W36X194	5/8	–
42	34	W14X398	–	–	–		WG42	W36X194	5/8	–
28	35	W14X398	WG29	W36X170	7/16		–	–	–	–
29	35	W14X311	WG30	W36X170	7/16		WG29	W36X170	7/16	–
30	35	W14X311	WG31	W36X170	1/2		WG30	W36X170	7/16	–
31	35	W14X342	WG32	W36X170	1/2		WG31	W36X170	1/2	–
32	35	W14X342	WG33	W36X170	9/16		WG32	W36X170	1/2	–
33	35	W14X370	WG34	W36X170	5/8		WG33	W36X170	9/16	–
34	35	W14X370	WG35	W36X170	5/8		WG34	W36X170	5/8	–
35	35	W14X370	WG36	W36X170	5/8		WG35	W36X170	5/8	–
36	35	W14X370	WG37	W36X170	9/16		WG36	W36X170	5/8	–
37	35	W14X370	WG38	W36X170	9/16		WG37	W36X170	9/16	–
38	35	W14X342	WG39	W36X170	1/2		WG38	W36X170	9/16	–
39	35	W14X342	WG40	W36X170	1/2		WG39	W36X170	1/2	–
40	35	W14X311	WG41	W36X170	7/16		WG40	W36X170	1/2	–
41	35	W14X311	WG42	W36X170	7/16		WG41	W36X170	7/16	–
42	35	W14X398	–	–	–		WG42	W36X170	7/16	–



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				

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. 34TH & 35TH		84-152	9125		