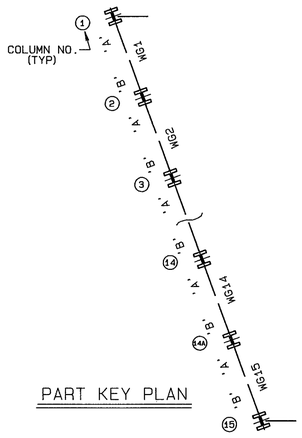
WIND GIRDERS (WEST WALL)

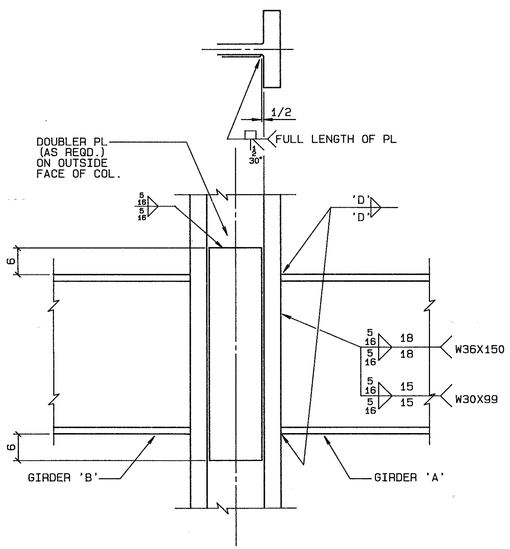
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
170/3	WG1	44, 45	W36X150	A744	230	59	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/4	WG2	44, 45	W36X150	B743	190	38	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/5	WG3	44, 45	W36X150	A743	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
	WG4	44, 45	W36X150		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
	WG5	44, 45	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG6	44, 45	W36X150		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
	WG7	44, 45	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG8	44, 45	W36X150		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
	WG9	44, 45	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG10	44, 45	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG11	44, 45	W36X150		250	51	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG12	44, 45	W36X150		220	45	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/6	WG13	44, 45	W36X150	B744	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
170/4	WG14	44, 45	W36X150	B743	200	40	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
170/7	WG15	44, 45	W36X150	C744	170	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
171/15	WG1	46,47	W30X99	A746	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
171/16	WG2	46,47	W30X99	B745	100	20	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/17	WG3	46,47	W30X99	A742	110	22	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG4	46,47	W30X99		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
	WG5	46,47	W30X99		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
	WG6	46,47	W30X99		130	46	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
	WG7	46,47	W30X99		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
	WG8	46,47	W30X99		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
	WG9	46,47	W30X99		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
	WG10	46,47	W30X99		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
	WG11	46,47	W30X99		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
	WG12	46,47	W30X99		110	22	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/18	WG13	46,47	W30X99	B746	110	22	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/19	WG14	46,47	W30X99	B745	110	22	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6
171/20	WG15	46,47	W30X99	A745	80	20	8 1/2 X 1/2 X 1'-3 1/2 - B787	5	9 X 1/2 X 1'-11 1/2 - B786	6



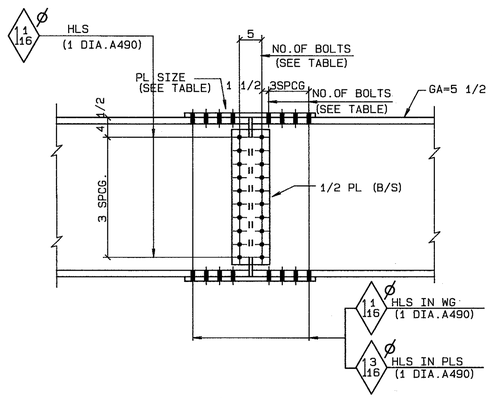
PART KEY PLAN

COLUMNS (WEST 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
1	44, 45	W14X159	WG1	W36X150	5/16	–	–	–	–
2	44, 45	W14X132	WG2	W36X150	5/16	WG1	W36X150	5/16	3/8
3	44, 45	W14X132	WG3	W36X150	5/16	WG2	W36X150	5/16	–
4	44, 45	W14X132	WG4	W36X150	5/16	WG3	W36X150	5/16	3/8
5	44, 45	W14X176	WG5	W36X150	5/16	WG4	W36X150	5/16	–
6	44, 45	W14X176	WG6	W36X150	5/16	WG5	W36X150	5/16	–
7	44, 45	W14X193	WG7	W36X150	5/16	WG6	W36X150	5/16	–
8	44, 45	W14X193	WG8	W36X150	5/16	WG7	W36X150	5/16	–
9	44, 45	W14X193	WG9	W36X150	5/16	WG8	W36X150	5/16	–
10	44, 45	W14X193	WG10	W36X150	5/16	WG9	W36X150	5/16	–
11	44, 45	W14X176	WG11	W36X150	5/16	WG10	W36X150	5/16	–
12	44, 45	W14X176	WG12	W36X150	5/16	WG11	W36X150	5/16	–
13	44, 45	W14X132	WG13	W36X150	5/16	WG12	W36X150	5/16	3/8
14	44, 45	W14X132	WG14	W36X150	5/16	WG13	W36X150	5/16	–
14A	44, 45	W14X132	WG15	W36X150	5/16	WG14	W36X150	5/16	–
15	44, 45	W14X159	–	–	–	WG15	W36X150	5/16	–
1	46, 47	W14X109	WG1	W30X99	5/16	–	–	–	–
2	46, 47	W14X109	WG2	W30X99	5/16	WG1	W30X99	5/16	–
3	46, 47	W14X109	WG3	W30X99	5/16	WG2	W30X99	5/16	–
4	46, 47	W14X109	WG4	W30X99	5/16	WG3	W30X99	5/16	–
5	46, 47	W14X109	WG5	W30X99	5/16	WG4	W30X99	5/16	–
6	46, 47	W14X145	WG6	W30X99	5/16	WG5	W30X99	5/16	–
7	46, 47	W14X145	WG7	W30X99	5/16	WG6	W30X99	5/16	–
8	46, 47	W14X145	WG8	W30X99	5/16	WG7	W30X99	5/16	–
9	46, 47	W14X145	WG9	W30X99	5/16	WG8	W30X99	5/16	–
10	46, 47	W14X145	WG10	W30X99	5/16	WG9	W30X99	5/16	–
11	46, 47	W14X145	WG11	W30X99	5/16	WG10	W30X99	5/16	–
12	46, 47	W14X109	WG12	W30X99	5/16	WG11	W30X99	5/16	–
13	46, 47	W14X109	WG13	W30X99	5/16	WG12	W30X99	5/16	–
14	46, 47	W14X109	WG14	W30X99	5/16	WG13	W30X99	5/16	–
14A	46, 47	W14X109	WG15	W30X99	5/16	WG14	W30X99	5/16	–
15	46, 47	W14X109	–	–	–	WG15	W30X99	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				

SPEC	AS NOTED							
HOLES	AS NOTED							
FINISH								
MADE	GM	DATE	MAY85	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO.	REV
CHK'D	WJF	DATE	JULY/85	FR	DETAIL: WIND GIRD. CONN'S WEST ELEV. 44TH TO 47TH	84-153	9130	

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