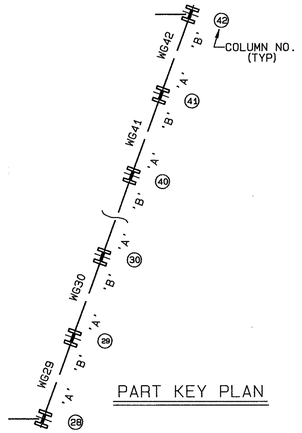
WIND GIRDERS (EAST WALL)

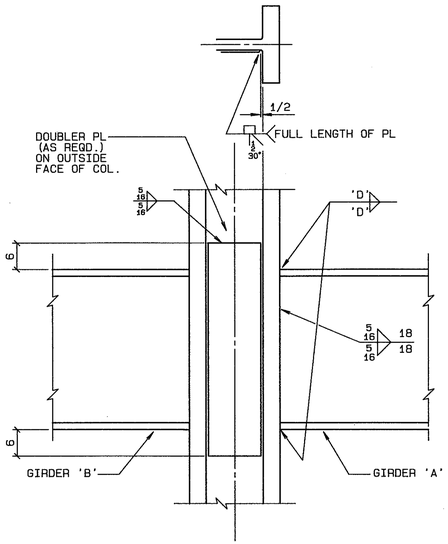
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
140/13	WG29	40, 41, 42	W36X150	B792	280	66	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
140/9	WG30	40, 41, 42	W36X150	A792	260	53	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 1/2 - B786	6
	WG31	40, 41, 42	W36X150		290	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
	WG32	40, 41, 42	W36X150		300	81	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	40, 41, 42	W36X150		330	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
	WG34	40, 41, 42	W36X150		390	79	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	40, 41, 42	W36X150		390	79	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	40, 41, 42	W36X150		390	79	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	40, 41, 42	W36X150		380	97	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	40, 41, 42	W36X150		340	69	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	40, 41, 42	W36X150		300	61	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	40, 41, 42	W36X150		280	57	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	40, 41, 42	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
140/15	WG42	40, 41, 42	W36X150	C792	270	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
140/24	WG29	43	W36X135	B793	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
140/25	WG30	43	W36X135	A793	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	43	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	43	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	43	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	43	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	43	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	43	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	43	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	43	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	43	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	43	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	43	W36X135		180	37	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 1/2 X 1'-11 /2 - B786	6
140/26	WG42	43	W36X135	C793	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



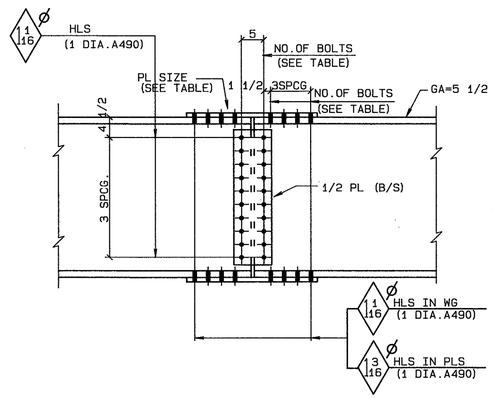
PART KEY PLAN

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	40, 41	W14X233	WG29	W36X150	5/16		–	–	–	–
29	40, 41	W14X211	WG30	W36X150	5/16		WG29	W36X150	5/16	–
30	40, 41	W14X211	WG31	W36X150	5/16		WG30	W36X150	5/16	–
31	40, 41	W14X211	WG32	W36X150	3/8		WG31	W36X150	5/16	–
32	40, 41	W14X257	WG33	W36X150	3/8		WG32	W36X150	3/8	–
33	40, 41	W14X257	WG34	W36X150	7/16		WG33	W36X150	3/8	–
34	40, 41	W14X311	WG35	W36X150	7/16		WG34	W36X150	7/16	–
35	40, 41	W14X311	WG36	W36X150	7/16		WG35	W36X150	7/16	–
36	40, 41	W14X311	WG37	W36X150	7/16		WG36	W36X150	7/16	–
37	40, 41	W14X257	WG38	W36X150	3/8		WG37	W36X150	7/16	–
38	40, 41	W14X257	WG39	W36X150	3/8		WG38	W36X150	3/8	–
39	40, 41	W14X211	WG40	W36X150	5/16		WG39	W36X150	3/8	–
40	40, 41	W14X211	WG41	W36X150	5/16		WG40	W36X150	5/16	–
41	40, 41	W14X211	WG42	W36X150	5/16		WG41	W36X150	5/16	–
42	40, 41	W14X233	–	–	–		WG42	W36X150	5/16	–
28	42	W14X193	WG29	W36X150	5/16		–	–	–	–
29	42	W14X176	WG30	W36X150	5/16		WG29	W36X150	5/16	3/8
30	42	W14X176	WG31	W36X150	5/16		WG30	W36X150	5/16	3/8
31	42	W14X176	WG32	W36X150	3/8		WG31	W36X150	5/16	3/8
32	42	W14X193	WG33	W36X150	3/8		WG32	W36X150	3/8	3/8
33	42	W14X193	WG34	W36X150	7/16		WG33	W36X150	3/8	3/8
34	42	W14X257	WG35	W36X150	7/16		WG34	W36X150	7/16	–
35	42	W14X257	WG36	W36X150	7/16		WG35	W36X150	7/16	–
36	42	W14X257	WG37	W36X150	7/16		WG36	W36X150	7/16	–
37	42	W14X193	WG38	W36X150	3/8		WG37	W36X150	7/16	3/8
38	42	W14X193	WG39	W36X150	3/8		WG38	W36X150	3/8	3/8
39	42	W14X176	WG40	W36X150	5/16		WG39	W36X150	3/8	3/8
40	42	W14X176	WG41	W36X150	5/16		WG40	W36X150	5/16	3/8
41	42	W14X176	WG42	W36X150	5/16		WG41	W36X150	5/16	–
42	42	W14X193	–	–	–		WG42	W36X150	5/16	–
28	43	W14X193	WG29	W36X135	5/16		–	–	–	–
29	43	W14X176	WG30	W36X135	5/16		WG29	W36X135	5/16	–
30	43	W14X176	WG31	W36X135	5/16		WG30	W36X135	5/16	–
31	43	W14X176	WG32	W36X135	5/16		WG31	W36X135	5/16	–
32	43	W14X193	WG33	W36X135	5/16		WG32	W36X135	5/16	–
33	43	W14X193	WG34	W36X135	5/16		WG33	W36X135	5/16	–
34	43	W14X257	WG35	W36X135	5/16		WG34	W36X135	5/16	–
35	43	W14X257	WG36	W36X135	5/16		WG35	W36X135	5/16	–
36	43	W14X257	WG37	W36X135	5/16		WG36	W36X135	5/16	–
37	43	W14X193	WG38	W36X135	5/16		WG37	W36X135	5/16	–
38	43	W14X193	WG39	W36X135	5/16		WG38	W36X135	5/16	–
39	43	W14X176	WG40	W36X135	5/16		WG39	W36X135	5/16	–
40	43	W14X176	WG41	W36X135	5/16		WG40	W36X135	5/16	–
41	43	W14X176	WG42	W36X135	5/16		WG41	W36X135	5/16	–
42	43	W14X193	–	–	–		WG42	W36X135	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				
CHK'D WJF	DATE MAY 14/85	FR	DETAIL: WIND GIRD. CONN'S EAST ELEV. 40TH TO 43RD				

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

CONTRACT 84-152 | DWG. NO. 9127 | REV