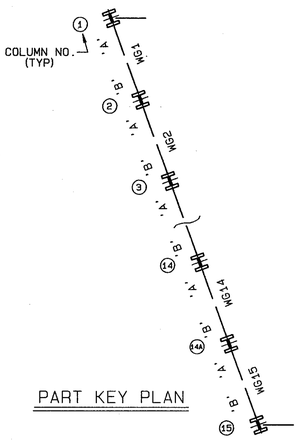
WIND GIRDERS (WEST WALL)

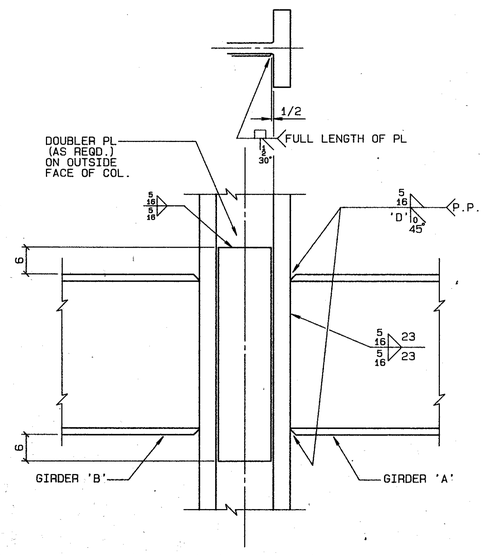
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
96/4	WG1	14, 15	W36X230	B784	960	185	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/7	WG2	14, 15	W36X230	D784	950	190	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/10	WG3	14, 15	W36X230	A781	910	186	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG4	14, 15	W36X230		920	188	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG5	14, 15	W36X230		910	186	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG6	14, 15	W36X230		890	201	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG7	14, 15	W36X230		890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG8	14, 15	W36X230		900	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG9	14, 15	W36X230		910	186	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG10	14, 15	W36X230		910	186	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG11	14, 15	W36X230		900	183	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG12	14, 15	W36X230		890	181	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/14	WG13	14, 15	W36X230	B785	900	182	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/7	WG14	14, 15	W36X230	D784	900	180	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/17	WG15	14, 15	W36X230	A785	630	158	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10
96/4	WG1	16, 17	W36X230	B784	890	173	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/7	WG2	16, 17	W36X230	D784	900	180	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/10	WG3	16, 17	W36X230	A781	870	177	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG4	16, 17	W36X230		880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG5	16, 17	W36X230		870	177	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG6	16, 17	W36X230		860	195	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG7	16, 17	W36X230		860	175	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG8	16, 17	W36X230		870	177	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG9	16, 17	W36X230		880	179	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG10	16, 17	W36X230		870	177	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG11	16, 17	W36X230		860	175	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
	WG12	16, 17	W36X230		850	173	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/14	WG13	16, 17	W36X230	B785	860	174	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/7	WG14	16, 17	W36X230	D784	850	170	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-1 1/2 - B751	10
96/17	WG15	16, 17	W36X230	A785	600	150	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-1 1/2 - B751	10



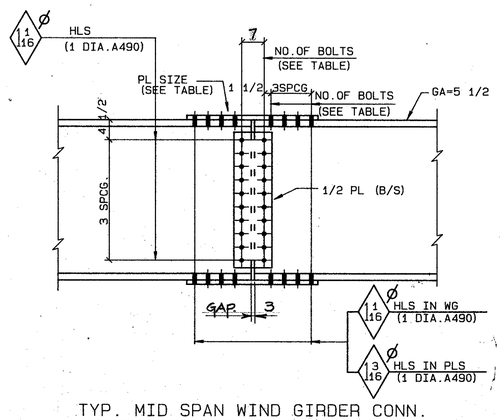
PART KEY PLAN

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	14, 15	W14X730	WG1	W36X230	1		–	–	–	
2	14, 15	W14X605	WG2	W36X230	1		WG1	W36X230	1	–
3	14, 15	W14X500	WG3	W36X230	7/8		WG2	W36X230	1	3/8
4	14, 15	W14X500	WG4	W36X230	7/8		WG3	W36X230	7/8	–
5	14, 15	W14X500 +FLG PLS 16 X 1 1/4	WG5	W36X230	SEE DET.		WG4	W36X230	SEE DET.	–
6	14, 15	W14X500	WG6	W36X230	7/8		WG5	W36X230	7/8	–
7	14, 15	W14X500	WG7	W36X230	7/8		WG6	W36X230	7/8	–
8	14, 15	W14X500	WG8	W36X230	7/8		WG7	W36X230	7/8	–
9	14, 15	W14X500	WG9	W36X230	7/8		WG8	W36X230	7/8	–
10	14, 15	W14X500	WG10	W36X230	7/8		WG9	W36X230	7/8	–
11	14, 15	W14X500	WG11	W36X230	7/8		WG10	W36X230	7/8	–
12	14, 15	W14X500	WG12	W36X230	7/8		WG11	W36X230	7/8	–
13	14, 15	W14X500	WG13	W36X230	7/8		WG12	W36X230	7/8	–
14	14, 15	W14X550	WG14	W36X230	7/8		WG13	W36X230	7/8	–
14A	14, 15	W14X605	WG15	W36X230	3/4		WG14	W36X230	7/8	–
15	14, 15	W14X730	–	–	–		WG15	W36X230	3/4	–
1	16, 17	W14X730	WG1	W36X230	7/8		–	–	–	–
2	16, 17	W14X605	WG2	W36X230	7/8		WG1	W36X230	7/8	–
3	16, 17	W14X500	WG3	W36X230	7/8		WG2	W36X230	7/8	–
4	16, 17	W14X500	WG4	W36X230	7/8		WG3	W36X230	7/8	–
5	16, 17	W14X500 +FLG PLS 12 X 1	WG5	W36X230	SEE DET.		WG4	W36X230	SEE DET.	–
6	16, 17	W14X500	WG6	W36X230	7/8		WG5	W36X230	7/8	–
7	16, 17	W14X500	WG7	W36X230	7/8		WG6	W36X230	7/8	–
8	16, 17	W14X500	WG8	W36X230	7/8		WG7	W36X230	7/8	–
9	16, 17	W14X500	WG9	W36X230	7/8		WG8	W36X230	7/8	–
10	16, 17	W14X500	WG10	W36X230	7/8		WG9	W36X230	7/8	–
11	16, 17	W14X500	WG11	W36X230	7/8		WG10	W36X230	7/8	–
12	16, 17	W14X500	WG12	W36X230	7/8		WG11	W36X230	7/8	–
13	16, 17	W14X500	WG13	W36X230	7/8		WG12	W36X230	7/8	–
14	16, 17	W14X550	WG14	W36X230	7/8		WG13	W36X230	7/8	–
14A	16, 17	W14X605	WG15	W36X230	3/4		WG14	W36X230	7/8	–
15	16, 17	W14X730	–	–	–		WG15	W36X230	3/4	–

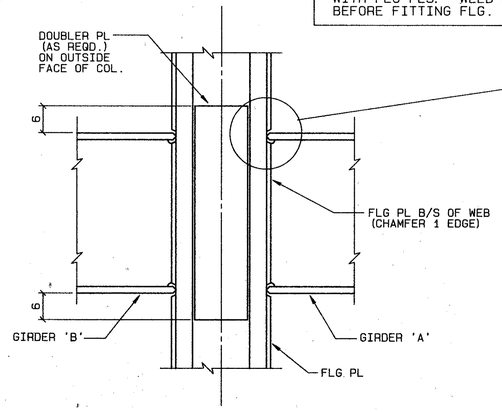


TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN

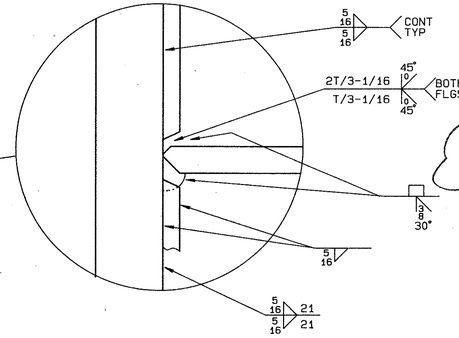


TYP. MID SPAN WIND GIRDER CONN.

DETAILER NOTE:
ADD SHOP NOTE AT COLS WITH FLG PLS:- WELD W.G. BEFORE FITTING FLG. PLS



TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN WITH FLG. PL'S



FOR CALCULATIONS SEE SKETCHES MC1 TO MC5 ISSUED BY J. WEIR

(2)

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	TO APPROV	MAY/4/85	GM	
1	GEN'L REV.	15 APR 85	MK	

July 8/85

SPEC	AS NOTED				
HOLES	AS NOTED				
FINISH					
MADE RJ/GM	DATE MAR/85	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO. REV
CHK'D HL	DATE APR 85	FR	DETAIL: WIND GIRD. CONN'S WEST ELEV. 14TH TO 17TH	84-15	9107

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