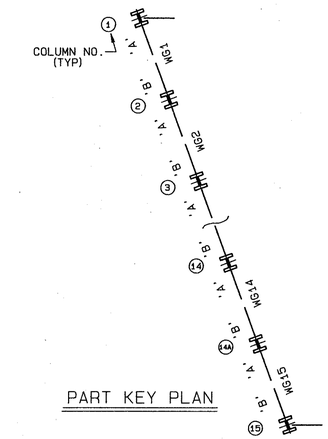
WIND GIRDERS (WEST WALL)

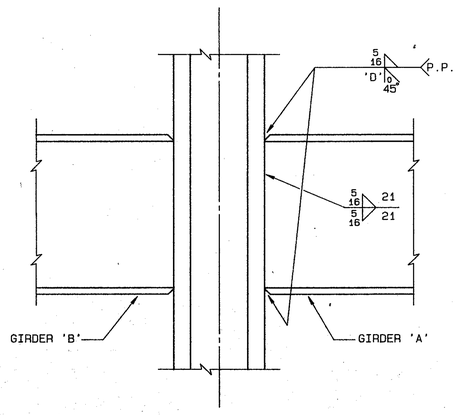
PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
96/4	WG1	18, 19	W36X230	A784	830	162	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/7	WG2	18, 19	W36X230	D784	830	166	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
96/10	WG3	18, 19	W36X230	A781	820	167	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG4	18, 19	W36X230		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG5	18, 19	W36X230		840	171	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG6	18, 19	W36X230		830	189	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG7	18, 19	W36X230		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG8	18, 19	W36X230		840	171	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG9	18, 19	W36X230		840	171	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG10	18, 19	W36X230		840	171	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG11	18, 19	W36X230		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG12	18, 19	W36X230		810	165	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
96/14	WG13	18, 19	W36X230	B785	820	167	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
96/7	WG14	18, 19	W36X230	C784	790	158	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/17	WG15	18, 19	W36X230	A785	590	148	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/3	WG1	20, 21	W36X245	A776	790	155	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/6	WG2	20, 21	W36X245	A780	760	152	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/9	WG3	20, 21	W36X245	A774	780	159	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG4	20, 21	W36X245	B774	810	165	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG5	20, 21	W36X245		830	169	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG6	20, 21	W36X245		810	185	10 1/2 X 1/2 X 1'-9 1/2 - C750	7	9 X 7/8 X 3'-11 1/2 - B751	10
	WG7	20, 21	W36X245	A774	800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG8	20, 21	W36X245		780	159	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG9	20, 21	W36X245		800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG10	20, 21	W36X245		800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG11	20, 21	W36X245		800	163	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
	WG12	20, 21	W36X245		780	159	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/13	WG13	20, 21	W36X245	B776	780	157	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/6	WG14	20, 21	W36X245	A780	780	156	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10
96/16	WG15	20, 21	W36X245	A777	600	150	10 1/2 X 1/2 X 1'-6 1/2 - D750	6	9 X 7/8 X 3'-11 1/2 - B751	10



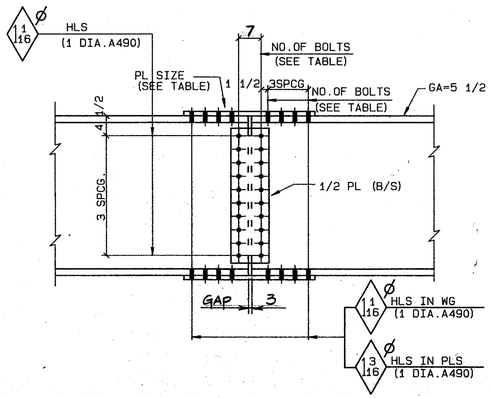
PART KEY PLAN

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	18, 19	W14X730	WG1	W36X230	7/8		-	-	-	-
2	18, 19	W14X605	WG2	W36X230	7/8		WG1	W36X230	7/8	-
3	18, 19	W14X500	WG3	W36X230	7/8		WG2	W36X230	7/8	-
4	18, 19	W14X500	WG4	W36X230	7/8		WG3	W36X230	7/8	-
5	18, 19	W14X500 +FLG PLS 12 X 1	WG5	W36X230	SEE DET.		WG4	W36X230	SEE DET.	-
6	18, 19	W14X500	WG6	W36X230	7/8		WG5	W36X230	7/8	-
7	18, 19	W14X500	WG7	W36X230	7/8		WG6	W36X230	7/8	-
8	18, 19	W14X500	WG8	W36X230	7/8		WG7	W36X230	7/8	-
9	18, 19	W14X500	WG9	W36X230	7/8		WG8	W36X230	7/8	-
10	18, 19	W14X500	WG10	W36X230	7/8		WG9	W36X230	7/8	-
11	18, 19	W14X500	WG11	W36X230	7/8		WG10	W36X230	7/8	-
12	18, 19	W14X500	WG12	W36X230	7/8		WG11	W36X230	7/8	-
13	18, 19	W14X500	WG13	W36X230	7/8		WG12	W36X230	7/8	-
14	18, 19	W14X550	WG14	W36X230	3/4		WG13	W36X230	7/8	-
14A	18, 19	W14X605	WG15	W36X230	3/4		WG14	W36X230	3/4	-
15	18, 19	W14X730	-	-	-		WG15	W36X230	3/4	-
1	20, 21	W14X730	WG1	W36X245	3/4		-	-	-	-
2	20, 21	W14X550	WG2	W36X245	3/4		WG1	W36X245	3/4	-
3	20, 21	W14X500	WG3	W36X245	3/4		WG2	W36X245	3/4	-
4	20, 21	W14X500	WG4	W36X245	7/8		WG3	W36X245	3/4	-
5	20, 21	W14X500	WG5	W36X245	7/8		WG4	W36X245	7/8	-
6	20, 21	W14X500	WG6	W36X245	7/8		WG5	W36X245	7/8	-
7	20, 21	W14X500	WG7	W36X245	3/4		WG6	W36X245	7/8	-
8	20, 21	W14X500	WG8	W36X245	3/4		WG7	W36X245	3/4	-
9	20, 21	W14X500	WG9	W36X245	3/4		WG8	W36X245	3/4	-
10	20, 21	W14X500	WG10	W36X245	3/4		WG9	W36X245	3/4	-
11	20, 21	W14X500	WG11	W36X245	3/4		WG10	W36X245	3/4	-
12	20, 21	W14X500	WG12	W36X245	3/4		WG11	W36X245	3/4	-
13	20, 21	W14X500	WG13	W36X245	3/4		WG12	W36X245	3/4	-
14	20, 21	W14X550	WG14	W36X245	3/4		WG13	W36X245	3/4	-
14A	20, 21	W14X550	WG15	W36X245	3/4		WG14	W36X245	3/4	-
15	20, 21	W14X730	-	-	-		WG15	W36X245	3/4	-

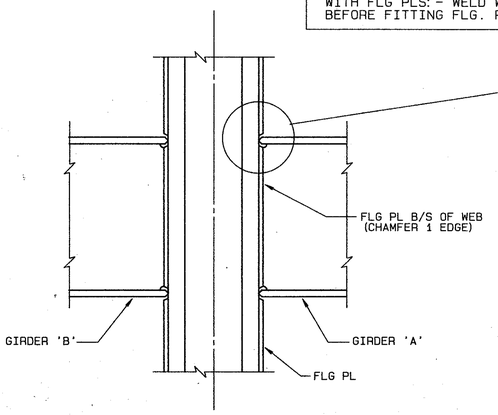


TYP. SHOP WELDED WIND GIRDER CONN. AT COLUMN

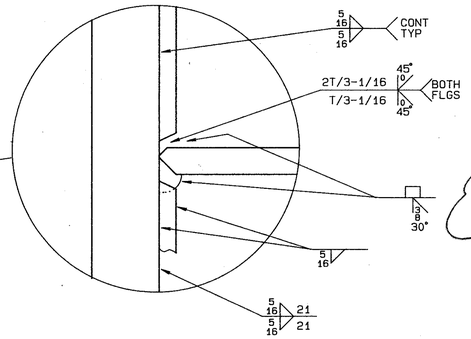


TYP. MID SPAN WIND GIRDER CONN.

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

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.

July 8/85E

REV #	DESCRIPTION	DATE	MADE BY	X NO.
2	TO APPROV.	MAY 14/85	GM	
1	GEN REV	15 APR 85	MK	

SPEC	AS NOTED	FRANKEL STEEL LIMITED					
HOLES	AS NOTED	220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2					
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. 18TH TO 21ST	84-15	9108	