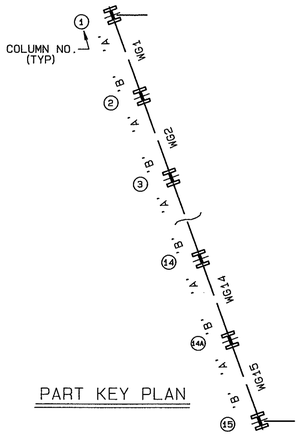
WIND GIRDERS (WEST WALL)

PG/LINE	WG NO.	FLOOR	SIZE	CUT FROM	MOMENT FT KIPS	SHEAR KIPS	MID SPAN CONN WEB PL	WEB BOLTS	FLG PL	FLG BOLTS
138/2	WG1	36, 37	W36X182	A757	440	95	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
138/3	WG2	36, 37	W36X182	B756	380	76	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
138/4	WG3	36, 37	W36X182	A756	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
	WG4	36, 37	W36X182		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
	WG5	36, 37	W36X182		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
	WG6	36, 37	W36X182		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
	WG7	36, 37	W36X182		520	106	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG8	36, 37	W36X182		520	106	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG9	36, 37	W36X182		510	104	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG10	36, 37	W36X182		500	102	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG11	36, 37	W36X182		470	96	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG12	36, 37	W36X182		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
138/5	WG13	36, 37	W36X182	B757	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
138/3	WG14	36, 37	W36X182	B756	380	76	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
138/6	WG15	36, 37	W36X182	C757	310	78	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/2	WG1	38, 39	W36X182	A795	360	82	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/3	WG2	38, 39	W36X182	B794	310	62	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/4	WG3	38, 39	W36X182	A794	330	67	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG4	38, 39	W36X182		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
	WG5	38, 39	W36X182		390	79	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG6	38, 39	W36X182		440	110	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG7	38, 39	W36X182		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
	WG8	38, 39	W36X182		450	92	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG9	38, 39	W36X182		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
	WG10	38, 39	W36X182		430	88	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG11	38, 39	W36X182		380	77	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
	WG12	38, 39	W36X182		350	71	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/5	WG13	38, 39	W36X182	B795	320	65	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/3	WG14	38, 39	W36X182	B794	310	62	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8
139/6	WG15	38, 39	W36X182	C795	260	65	8 1/2 X 1/2 X 1'-6 1/2 - A787	6	9 X 3/4 X 2'-5 1/2 - A786	8

ZONE 3

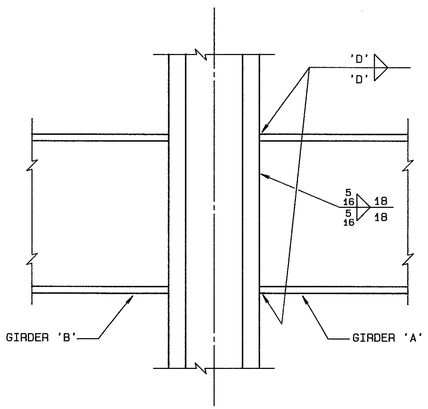
ZONE 4



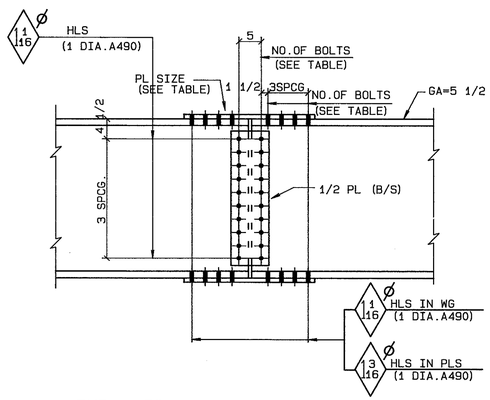
PART KEY PLAN

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	36, 37	W14X342	WG1	W36X182	1/2	–	–	–	–
2	36, 37	W14X283	WG2	W36X182	7/16	WG1	W36X182	1/2	–
3	36, 37	W14X283	WG3	W36X182	7/16	WG2	W36X182	7/16	–
4	36, 37	W14X311	WG4	W36X182	1/2	WG3	W36X182	7/16	–
5	36, 37	W14X311	WG5	W36X182	9/16	WG4	W36X182	1/2	–
6	36, 37	W14X342	WG6	W36X182	9/16	WG5	W36X182	9/16	–
7	36, 37	W14X370	WG7	W36X182	9/16	WG6	W36X182	9/16	–
8	36, 37	W14X370	WG8	W36X182	9/16	WG7	W36X182	9/16	–
9	36, 37	W14X370	WG9	W36X182	9/16	WG8	W36X182	9/16	–
10	36, 37	W14X370	WG10	W36X182	9/16	WG9	W36X182	9/16	–
11	36, 37	W14X342	WG11	W36X182	1/2	WG10	W36X182	9/16	–
12	36, 37	W14X311	WG12	W36X182	1/2	WG11	W36X182	1/2	–
13	36, 37	W14X311	WG13	W36X182	7/16	WG12	W36X182	1/2	–
14	36, 37	W14X283	WG14	W36X182	7/16	WG13	W36X182	7/16	–
14A	36, 37	W14X283	WG15	W36X182	3/8	WG14	W36X182	7/16	–
15	36, 37	W14X342	–	–	–	WG15	W36X182	3/8	–
1	38, 39	W14X283	WG1	W36X182	7/16	–	–	–	–
2	38, 39	W14X233	WG2	W36X182	3/8	WG1	W36X182	7/16	–
3	38, 39	W14X233	WG3	W36X182	3/8	WG2	W36X182	3/8	–
4	38, 39	W14X257	WG4	W36X182	7/16	WG3	W36X182	3/8	–
5	38, 39	W14X257	WG5	W36X182	7/16	WG4	W36X182	7/16	–
6	38, 39	W14X311	WG6	W36X182	1/2	WG5	W36X182	7/16	–
7	38, 39	W14X342	WG7	W36X182	1/2	WG6	W36X182	1/2	–
8	38, 39	W14X342	WG8	W36X182	1/2	WG7	W36X182	1/2	–
9	38, 39	W14X342	WG9	W36X182	1/2	WG8	W36X182	1/2	–
10	38, 39	W14X342	WG10	W36X182	1/2	WG9	W36X182	1/2	–
11	38, 39	W14X311	WG11	W36X182	7/16	WG10	W36X182	1/2	–
12	38, 39	W14X257	WG12	W36X182	3/8	WG11	W36X182	7/16	–
13	38, 39	W14X257	WG13	W36X182	3/8	WG12	W36X182	3/8	–
14	38, 39	W14X233	WG14	W36X182	3/8	WG13	W36X182	3/8	–
14A	38, 39	W14X233	WG15	W36X182	5/16	WG14	W36X182	3/8	–
15	38, 39	W14X283	–	–	–	WG15	W36X182	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			FRANKEL STEEL LIMITED			
HOLES	AS NOTED			220 ATTWELL DRIVE, UNIT 1, REXDALE, ONTARIO M9W 5B2			
FINISH							
MADE GM	DATE MAY85	SQUAD	PROJECT: 7 WORLD TRADE CENTER	CONTRACT	DWG. NO.	REV	
CHK'D WJF	DATE MAY 14/85	FR	DETAIL: WIND GIRD. CONN'S WEST ELEV. 36TH TO 39TH	84-152	9120		