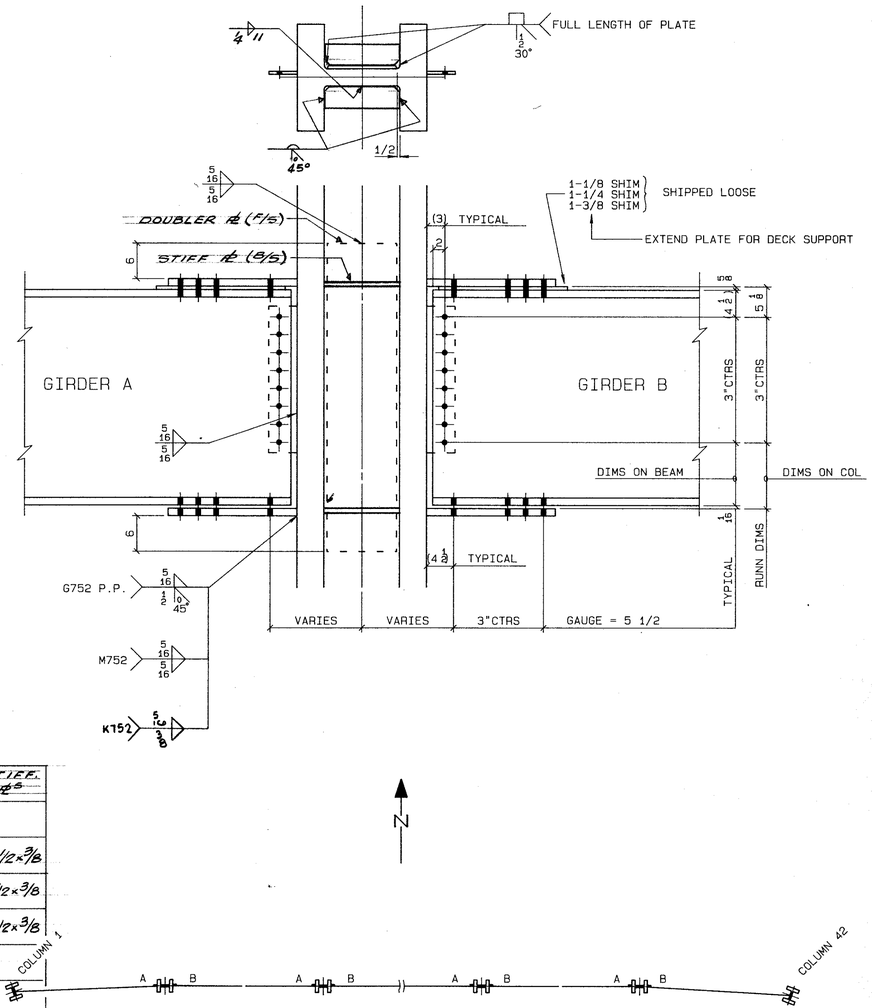
COL NO.	FLOOR	COL. SIZE	GIRDER A									GIRDER B									DOUBLER PLATE
			WG NO.	SIZE		MOM'K	SHEAR	FLG. BOLT	FLANGE PLATE	WEB BOLT	WEB PLATE	WG NO.	SIZE		MOM'K	SHEAR	FLG. BOLT	FLANGE PLATE	WEB BOLT	WEB PLATE	
57	44 & 45	W14X145	WG-58	W36X150	SLOPING	240	74	6	12X1/2X1-0 1/2	6	5X1/2X1-6 1/2 C753	WG-57	W36X150		200	71	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
56	44 & 45	W14X145	WG-57	W36X150		200	71	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-56	W36X150		370	102	10	12X5/8X1-6 1/2 G752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8
55	44 & 45	W14X159	WG-56	W36X150		370	102	10	12X5/8X1-6 1/2 G752	6	5X1/2X1-6 1/2 C753	WG-55	W36X150		250	76	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8
54	44 & 45	W14X159	WG-55	W36X150		250	76	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-54	W36X150		220	74	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
53	44 & 45	W14X176	WG-54	W36X150		220	74	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-53	W36X150		210	73	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
52	44 & 45	W14X176	WG-53	W36X150		210	73	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-52	W36X150		240	76	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
51	44 & 45	W14X233	WG-52	W36X150		240	76	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-51	W36X150		250	78	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
50	44 & 45	W14X233	WG-51	W36X150		250	78	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-50	W36X150		250	78	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
49	44 & 45	W14X233	WG-50	W36X150		250	78	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-49	W36X150		230	75	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
48	44 & 45	W14X176	WG-49	W36X150		230	75	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-48	W36X150		200	72	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
47	44 & 45	W14X176	WG-48	W36X150		200	72	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-47	W36X150		220	83	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	
46	44 & 45	W14X159	WG-47	W36X150		220	83	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-46	W36X150		270	74	8	12X1/2X1-3 1/2 K752	6	5X1/2X1-6 1/2 C753	11 1/2 x 3/8
45	44 & 45	W14X159	WG-46	W36X150		270	74	8	12X1/2X1-3 1/2 K752	6	5X1/2X1-6 1/2 C753	WG-45	W36X150		270	74	8	12X1/2X1-3 1/2 K752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8
44	44 & 45	W14X145	WG-45	W36X150		270	74	8	12X1/2X1-3 1/2 K752	6	5X1/2X1-6 1/2 C753	WG-44	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8
43	44 & 45	W14X145	WG-44	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-43	W36X150	SLOPING	240	68	6	12X1/2X1-0 1/2	6	5X1/2X1-6 1/2 C753	
57	46 & 47	W14X120	WG-58	W36X150	SLOPING	120	62	6	12X1/2X1-0 1/2	6	5X1/2X1-6 1/2 C753	WG-57	W36X150		120	63	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		STIFF PS
56	46 & 47	W14X120	WG-57	W36X150		120	63	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-56	W36X150		440	95	10	12X5/8X1-6 1/2 G752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8	3 1/2 x 3/8
55	46 & 47	W14X120	WG-56	W36X150		440	140	10	12X5/8X1-6 1/2 G752	9	5X1/2X2-3 1/2 D753	WG-55	W36X150		240	90	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	11 1/2X5/8	3 1/2 x 3/8
54	46 & 47	W14X120	WG-55	W36X150		240	90	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-54	W36X150		410	130	10	12X5/8X1-6 1/2 G752	8	5X1/2X2-0 1/2 B753	1 1/2 x 1/2	3 1/2 x 3/8
53	46 & 47	W14X159	WG-54	W36X150		410	160	10	12X5/8X1-6 1/2 G752	10	5X1/2X2-6 1/2 M753	WG-53	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	1 1/2 x 3/8	
52	46 & 47	W14X159	WG-53	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-52	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
51	46 & 47	W14X176	WG-52	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-51	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
50	46 & 47	W14X176	WG-51	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-50	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
49	46 & 47	W14X176	WG-50	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-49	W36X150		200	65	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
48	46 & 47	W14X159	WG-49	W36X150		200	55	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-48	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
47	46 & 47	W14X159	WG-48	W36X150		200	60	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-47	W36X150		370	120	10	12X5/8X1-6 1/2 G752	7	5X1/2X1-9 1/2 A753	1 1/2 x 3/8	
46	46 & 47	W14X120	WG-47	W36X150		370	110	10	12X5/8X1-6 1/2 G752	7	5X1/2X1-9 1/2 A753	WG-46	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	1 1/2 x 3/8	3 1/2 x 3/8
45	46 & 47	W14X120	WG-46	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-45	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	11 1/2X3/8	
44	46 & 47	W14X120	WG-45	W36X150		200	67	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-44	W36X150		130	61	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753		
43	46 & 47	W14X120	WG-44	W36X150		130	61	6	12X1/2X1-0 1/2 M752	6	5X1/2X1-6 1/2 C753	WG-43	W36X150	SLOPING	160	62	6	12X1/2X1-0 1/2	6	5X1/2X1-6 1/2 C753		



PART KEY PLAN SHOWING FIN PLATE ORIENTATION

NOTES

STEEL GRADES BEAMS A36, COLS A36 U/N, CONN MAT'L 44W
WELDING E70 SERIES ELECTRODES

BOLTS
FLG CONNECTIONS 1"A490F (OVS HLS) 14.9 KIPS
(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

REV #	DESCRIPTION	DATE	MADE BY	X NO.
2	MARK REV'D. COL 53	NOV 22	GM	
1	FORCES REV'D.	SEP 16/85	GM	44

SPEC	AS NOTED						
HOLES	AS NOTED						
FINISH							
MADE	WJF	DATE MAY 28/85	SQUAD	PROJECT:	7 WORLD TRADE CENTER	CONTRACT	DWG. NO. REV
CHK'D	GM	DATE MAY 30/85	FR	DETAIL:	WG-43 TO WG-58 44TH FL TO 47TH FL	84-153	9148

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