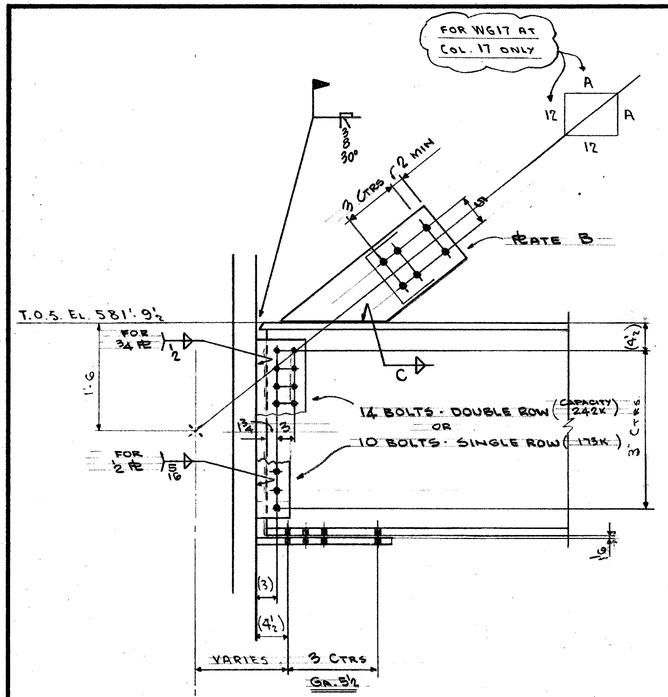
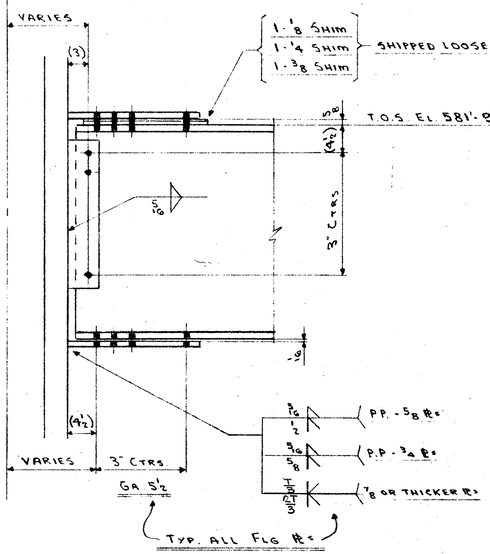




COLUMN	WIND GIRDER	GIVEN MOM. "K"	AXIAL FORCE "K"	BRACING	TOP FLG. CONN.	WEB CONN. BOLTS	WEB CONN. PLATE	BTM. FLG. CONN. BOLTS	BTM. FLG. CONN. PLATE	BRACING CONN. BEV. A	BRACING CONN. BOLTS	BRACING CONN. PLATE B	BRACING CONN. WELD C
56 W14 x 550	WG57 W36 x 280	650	50	2 - WT5 x 56 ± 180K		14	B x ¾ x 1'-9½	20	12 x 1¼ x 2'-9½	9½	8	11 x 1⅛	5/8
56	WG56	850	100	± 130K		14		24	12 x 1½ x 3'-3½	7 9/16	8	21 x 1⅛	—
54	WG55	670	100	2 - MC10 x 33.6 ± 148K	1	14	1	20	12 x 1¼ x 2'-9½	9 5/16	6	21 x 1⅛ x 2'-0½	7/16
54	WG54	620	165	± 120K	1	10	5 x ½ x 2'-6½	20		9 13/16	6		
52	WG53	600	165	± 100K		10		20		9 13/16	6		
52	WG52	600	175	± 100K		10		20		9¾	6		
50	WG51	600	170	± 100K		10		20		9¾	6		
50	WG50	600	170	± 100K		10		20		9¾	6		
48	WG49	600	160	± 100K		10		20		9 13/16	6		
48	WG48	590	150	± 90K		10		20		9 13/16	6		
46	WG47	600	155	2 - MC10 x 33.6 ± 100K		10		20		9¼	6		
46	WG46	670	170	2 - WT5 x 56 ± 170K		10		20		7¾	8	11 x 1⅛	5/8
44	WG45	630	170	± 155K	1 BUTT WELD	10		20		7¾	8		
44 W14 x 550	WG44 W36 x 280	600	50	2 - WT5 x 56 ± 200K	1	14	8 x ¾ x 1'-9½	20		7 7/16	8	21 x 1⅛	—
17 W14 x 455	WG17 W36 x 210	460	175	2 - MC10 x 33.6 ± 160K		14		20		11 3/16	6	11 x 1	7/16
17	WG18	460	265	± 170K	1	14	1	20		9⅝	6		
19	WG19	470	280	± 110K		10	5 x ½ x 2'-6½	20		9⅝	6		
19	WG20	470	308	± 110K		10		20		9⅝	6		
21	WG21	410	315	± 110K		10		20		9 11/16	6		
21	WG22	410	320	± 100K		10		20		9⅝	6		
23	WG23	400	325	± 100K		10		20		9⅝	6		
23	WG24	390	290	2 - MC10 x 33.6 ± 120K	1	10		20		9⅝	6		
25	WG25	500	315	2 - WT5 x 56 ± 175K	1	10		22	12 x 1⅜ x 3'-0½	7⅝	8	21 x 1⅛ x 2'-0½	5/8
25 W14 x 455	WG26	450	230	± 175K	1	14	1 B x ¾ x 1'-9½	20	12 x 1¼ x 2'-9½	9'8	8	21 x 1⅛ x 2'-0½	5/8
27 W14 x 605	WG27	500	180	± 180K	1	14		20		9'8	8		
27	WG28 W36 x 210	700	170	2 - WT5 x 56 ± 285K	1	14		22	12 x 1⅜ x 3'-0½	7¾	10	11 x 1⅜	¾

COLUMN	WIND GIRDER	GIVEN MOM. "K"	AXIAL FORCE "K"	BRACING	TOP & BTM. FLG. CONN. BOLTS	TOP & BTM. FLG. CONN. PLATE	WEB CONN. BOLTS	WEB CONN. PLATE
57 W14 x 550	WG58 W36 x 280	820	50		20	12 x 1¼ x 2'-9½	10	5 x ½ x 2'-6½
57	WG57	650	50		20		10	
55	WG56	850	100		24	12 x 1½ x 3'-3½	8	5 x ½ x 2'-0½
55	WG55	670	100		20	12 x 1¼ x 2'-9½	8	
53	WG54	620	165		20		8	
53	WG53	600	165		20		8	
51	WG52	600	175		20		8	
51	WG51	600	170		20		8	
49	WG50	600	170		20		8	
49	WG49	600	160		20		8	
47	WG48	590	150		20		8	
47	WG47	600	155		20		8	
45	WG46	670	170		20		8	
45	WG45	630	170		20		8	
43	WG44	600	50		20		10	5 x ½ x 2'-6½
43 W14 x 550	WG43 W36 x 280	700	50		20		10	
16 W14 x 605	WG16 W36 x 210	730	170		20		10	
16	WG17	460	175		20		10	
18 W14 x 455	WG18	460	265		20		8	5 x ½ x 2'-0½
18	WG19	470	280		20		8	
20	WG20	470	308		20		8	
20	WG21	410	315		20		8	
22	WG22	410	320		20		8	
22	WG23	400	325		20		8	
24	WG24	390	290		20		8	
24	WG25	500	315		22	12 x 1⅜ x 3'-0½	8	
26	WG26	450	230		20	12 x 1¼ x 2'-9½	8	
26 W14 x 455	WG27 W36 x 210	500	180		20		10	5 x ½ x 2'-6½

STEEL GRADES — COL., BMS., BRACING - A36
CONN MAT'L G40.21-44W

WELDING — E70 SERIES ELECTRODES

BOLTS — ALL 1" ø A490F WITH 2/WASH EACH
BRACING AND FLG. CONN^S (O.V.S HLS IN ^R): 19.9^K S.S.
WEB CONN^S (STD. HLS) = 17.3^K S.S.

FIN ^R^S FOR WEB CONN^S LOCATED ON OUT. FACE OF BM. WEB

REF. DWG^S E22, E122

REVISED			
DATE	BY		
DATE	BY		
DATE	BY		
DATE	BY		
DATE Jul 16	BY JM		

X39 & APP. 1

OPEN HOLES	
PAINT	
ERECTED BY	
FIELD PAINT	
INSPECTION	

22ND. FLOOR BELT TRUSS CONNS.	
7 WORLD TRADE CENTER N.Y.	
TISHMAN CONSTRUCTION	CUSTOMER
EMERY ROTH & SONS P.C.	ARCHITECT
IRWIN G. CANTOR P.C.	ENGINEER

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

SQUAD FR
MADE BY JM DATE JUNE 85 CHKD. BY ✓ DATE
CONT. No. 84-15 SHEET 9165