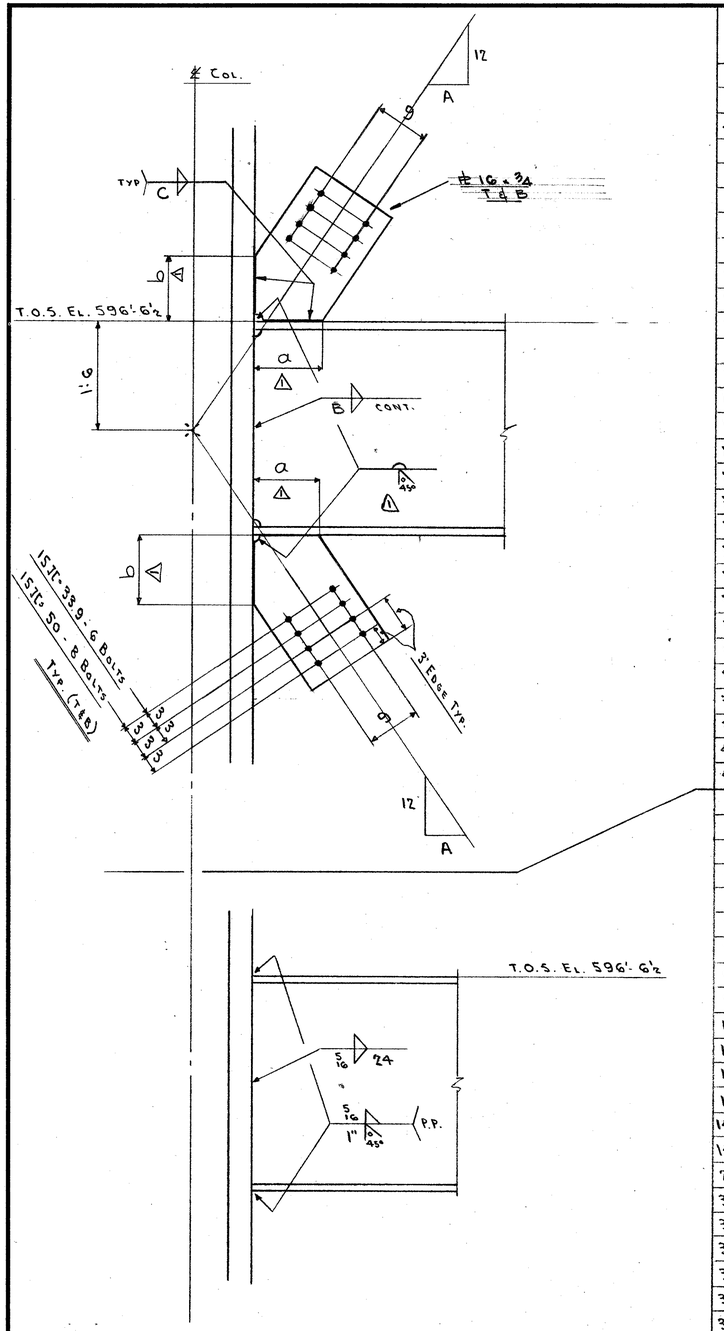
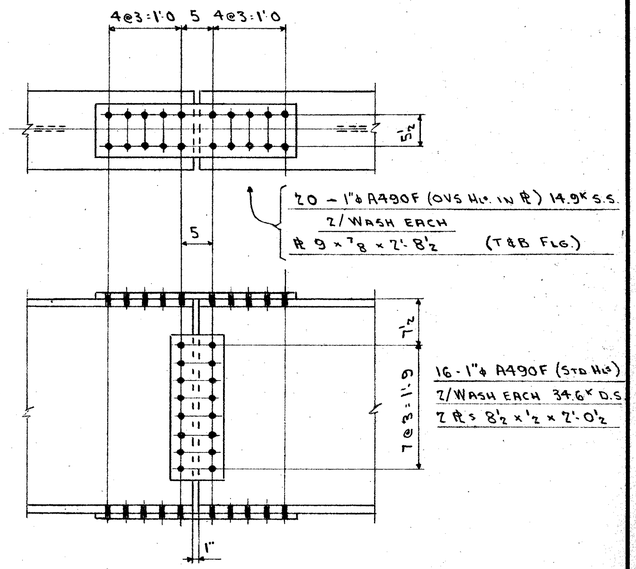


COLUMN	WIND GIRDER	GIVEN mom.1K		UPPER BRACING	BEV. A	LOWER BRACING	WELDS B	WELDS C	a ±	b ±	CAPACITY KIPS
2 W14×550	WG1 W36×210	710		2-C15×33.9 ⚠ ±90K	9½	2-C15×33.9 ±110K	5/16	3/8	1'-2⅝	7⅜	141
2	WG2	620		±150K	8⅛	±110K	5/16	3/8	1'-0¼	10½	210
4 W14×500	WG3	610		2-C15×50 ±150K	8	2-C15×50 ±200K	3/8	1/2	1'-0¼	10⅜	277
4	WG4	630		±210K	8	±180K					
6	WG5	650		±190K	8	±220K					
6 W14×500	WG6	670		±220K	8	±200K			⊥	⊥	⊥
8 W14×455	WG7	680		±200K	8	±220K			1'-0⅝	9⅞	262
8	WG8	680		±210K	8	±220K			⊥	⊥	⊥
10 W14×500	WG9	680		±210K	8	±200K			1'-0¼	10⅜	277
10	WG10	670		±190K	8	±220K					
12	WG11	690		±210K	8	±180K					
12	WG12	670		2-C15×50 ±160K	8	2-C15×50 ±200K	⊥	⊥			⊥
14	WG13	580		2-C15×33.9 ±170K	8⅛	2-C15×33.9 ±130K	5/16	3/8		⊥	207
14 W14×500	WG14	610		⚠ ±100K	8⅛	±130K			1'-0½	10	200
15 W14×665	WG15 W36×210	590		±50K	6½	±90K			8	1'-6⅝	155
29 W14×605	WG29 W36×194	670		⚠ ±85K	9 15/16	±70K			1'-3¼	6⅝	124
29	WG30	590		±120K	8	⚠ ±100K			11½	11⅝	233
31 W14×550	WG31	600		2-C15×33.9 ±130K	8	2-C15×33.9 ±180K	⊥	⊥	11¾	11⅛	285
31	WG32	640		2-C15×50 ±200K	8	2-C15×50 ±170K	3/8	1/2	⊥	⊥	216
33 W14×500	WG33	680		±190K	8	±220K			1'-0⅛	10⅝	284
33	WG34	700		±220K	8	±200K					
35	WG35	710		±210K	8	±220K					
35	WG36	710		±210K	8	±220K					
37	WG37	690		±230K	8	±210K					
37 W14×500	WG38	670		±200K	8	±230K			⊥	⊥	⊥
39 W14×550	WG39	640		2-C15×50 ±210K	8	2-C15×50 ±170K	⊥	⊥	11¾	11⅛	296
39	WG40	590		2-C15×33.9 ±130K	8	2-C15×33.9 ±180K	5/16	3/8	⊥	⊥	⊥
41 W14×605	WG41	570		±190K	8	±80K			1'-3¼	6⅝	124
41	WG42 W36×194	610		2-C15×33.9 ±60K	9¼	2-C15×33.9 ±100K	⊥	⊥	1'-1⅝	8⅛	158
1 W14×665	WG1 W36×210	710									
3 W14×500	WG2	670									
3	WG3	610									
5	WG4	630									
5	WG5	650									
7	WG6	670									
7 W14×500	WG7	680									
9 W14×455	WG8	680									
9	WG9	680									
11 W14×500	WG10	670									
11	WG11	690									
13	WG12	670									
13 W14×500	WG13	580									
14A W14×550	WG14	610									
14A	WG15 W36×210	590									
28 W14×730	WG29 W36×194	670									
30 W14×550	WG30	590									
30	WG31	600									
32 W14×500	WG32	640									
32	WG33	680									
34	WG34	700									
34	WG35	710									
36	WG36	710									
36	WG37	690									
38	WG38	670									
38 W14×500	WG39	640									
40 W14×550	WG40	590									
40	WG41	570									
42 W14×730	WG42 W36×194	610									



— MID SPAN SPLICE DETAIL FOR ALL W.G.S —

"DETAILER NOTE" - THERE ARE NO PRE-FAB. SKETCHES FOR 23RD FL. W.G.'S - IDENTIFY ON DETAIL DWG. BY PAGE & LINE NO. AND NOTE - CUT WITH MATCHING PIECE MARK

⚠ NOTE:

CAPACITY BASED ON TOTAL LENGTH OF WELD (MIN a OR b - 1 INCH) x 2 x 2 SIDES

MIN. LENGTH ACTUALLY PROVIDED = (a - 1 INCH + b - 1 INCH) x 2 SIDES = 40" OF WELD MIN.

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

WELDING E70 SERIES ELECTRODES

BOLTS - MID SPAN SPLICE AS NOTED

BRACING - 1"ϕ A490F 2/WASH EACH (OVS HLE IN ℄) 29.8K D.S

REF. DWG. E23, E122

REVISED					
DATE ____ BY ____	OPEN HOLES ____	23RD FLOOR BELT TRUSS CONNS.	FRANKEL STEEL LIMITED		
DATE ____ BY ____	PAINT ____	7 WORLD TRADE CENTER N.Y.	220 ATTWELL DRIVE UNIT 1 REXDALE, ONTARIO M9W 5B2		
DATE ____ BY ____	ERECTED BY ____	TISHMAN CONSTRUCTION CUSTOMER	SQUAD F.R.		
DATE ____ BY ____	FIELD PAINT ____	EMERY ROTH & SONS P.C. ARCHITECT	MADE BY JM DATE JUNE 85 CHKD. BY	DATE	
DATE JULY 25 BY JM	INSPECTION ____	IRWIN G. CANTOR P.C. ENGINEER	CONT. No. 84-15	SHEET 9167	

X30 & APP. ⚠