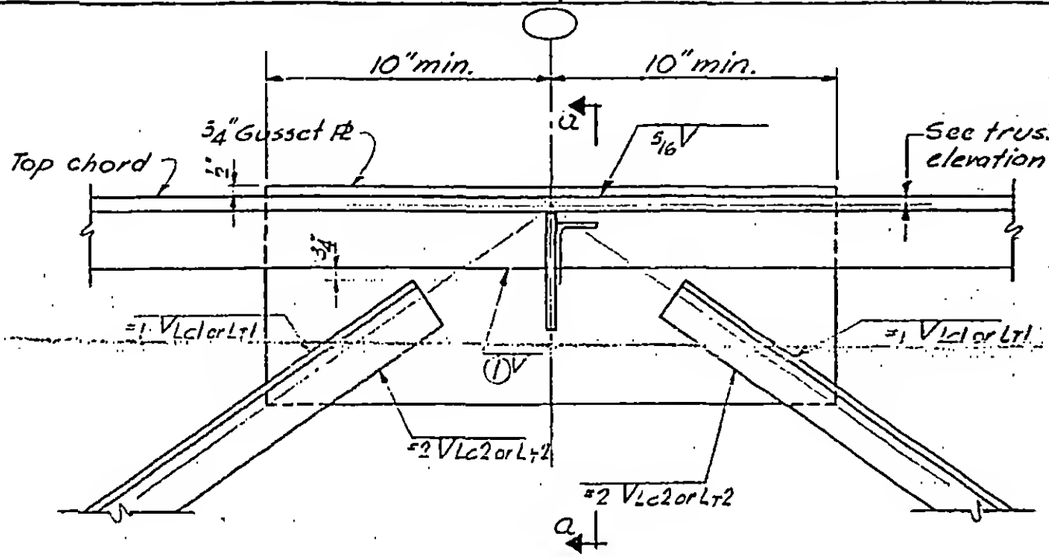
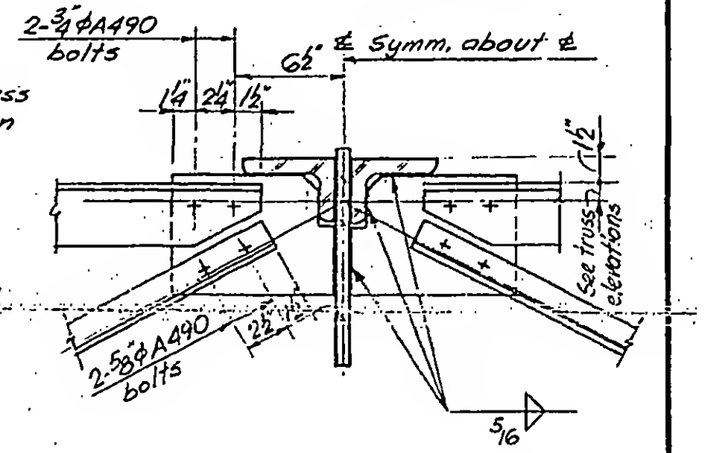
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.1 | DATE: 3-19-69

REVISIONS





Section a-a

Diagonal member size	Compression				Tension			
	Weld #1	Lc1	Weld #2	Lc2	Weld #1	LT1	Weld #2	LT2
1 × 1 × ¼	—	—	—	—	¼	6	3/16	4
1¼ × 1¼ × ¼	—	—	—	—	¼	6	3/16	4
1¾ × 1¼ × ¼	¼	6	3/16	4	¼	6	3/16	4
1¾ × 1¾ × ¼	¼	6	3/16	4	5/16	6	3/16	4
2 × 1½ × ¼	¼	6	3/16	4	—	—	—	—
2½ × 1½ × ¼	¼	6	3/16	4	¼	7	3/16	5
2½ × 2 × ¼	¼	6	5/16	4	5/16	7	3/16	5
2½ × 1½ × 5/16	¼	6	¼	4	5/16	7	¼	5
2½ × 2 × 5/16	5/16	6	¼	4	3/8	7	¼	5
2½ × 2 × 3/8	5/16	7	¼	5	5/16	9	¼	6
3 × 2 × ¼	5/16	7	3/16	5	—	—	—	—
3 × 2 × 3/8	3/8	7	5/16	5	3/8	9	5/16	6
3 × 2 × 7/16	5/16	9	5/16	6	—	—	—	—
3 × 2 × ½	3/8	9	5/16	6	7/16	9	3/8	6
3 × 2½ × ½	7/16	9	5/16	6	—	—	—	—

Note ① ¼" for 7T ≤ to ¾" thick
5/16" for 7T > than ¾" thick

See 7-B7 for truss elevations.

LICENSED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON No. 34990 UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.1