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

PROJECT: THE WORLD TRADE CENTER | TITLE: KI EL. 310 REPAIR DETAIL FOR EXISTING STEEL | DATE: 6-12-72

REVISIONS

6-16-72

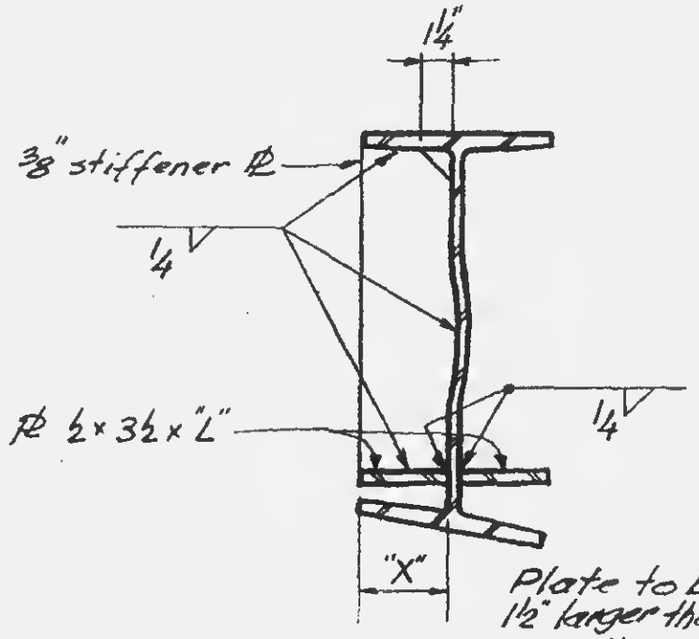
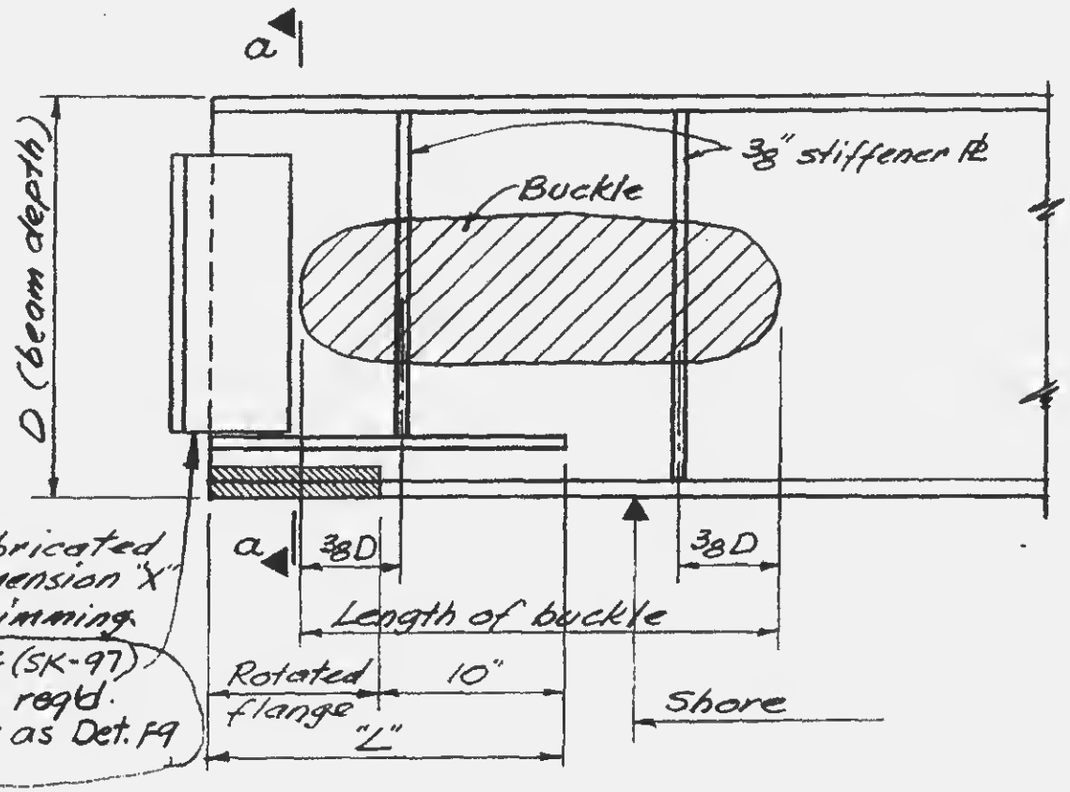


Plate to be fabricated 1½" larger than dimension "X" to allow for trimming.

Note F (SK-97) Where reqd. repair as Det. F9

Section a-a



⅜" stiffener plates to be placed as follows:

LENGTH OF BUCKLE	NO. OF PLATES	PLACEMENT OF STIFFENERS
0.75 D	1	Center in bulge
0.75 D > 1.00 D	2	as shown above
1.00 D > 2.00 D	3	2 outside as shown above - center one centered between

Procedure

1. Shore beam.
2. Remove damaged connections.
3. Replace with same type connection, but capacity to be as shown in Plan.
4. Install horizontal plates.
5. Trim vertical stiffener plates to fit and install number and location as shown in table.
6. Remove shores.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED

DRAWN

REVIEWED

Detail F5

Buckled web, failed connection & rotated flange

12-JK7-9