

GENERAL KNIFE EDGE REPAIR SPECIFICATION: This specification applies to the following types of trench shields shields:

3M, 4L, 4M, 6M, 8M, T, E, N, K, and LD

## SPECIFICATIONS:

- All welding shall be performed according to the Structural Welding Code for Steel - AWS D1.1-90.
- A certified welder shall perform all welding.
- 70,000 psi welding rod or wire shall be used to complete the welds.
- 3/16" steel sheet with a 55,000 psi minimum yield strength shall be used to replace the skin plate cut away from the collars,

## PROCEDURE:

- 1. Inspect damaged area of knife in order to determine extent of damage and material needed for repair. Cut out interior skin of knife edge and if necessary remove exterior skin as well.
- 2. Once damaged material has been removed. Prepare surface for welding. Place GME supplied End Gussets at each end of opening shown in step 2. Place 1/2 Plate 2-1/2 x Length cutting edge as needed and weld into place.
- 3. Weld GME supplied center gusset in the middle of opening, weld as shown. Place interior skin on top of the center gusset and overlapping the end gussets.
- 4. Fully weld skin plate to horizontal tubing and end gussets, as well as along bottom cutting edge plate.

## NOTE:

All material used in repair such as gussets, knife edge cutting plate, interior skin and exterior skin plate shall be supplied by GME or equivalent. If questions arise during any process of repair, please consult with GME on staff engineer before proceeding.

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SCALE: AS SHOWN BPS

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2006 KNIFE EDGE REPAIR SPECIFICATION

DRAWING NO. REPAIR 013