

# A PRACTICAL PIPE TRAILER

**B**ECAUSE aluminum irrigation pipe of various lengths and diameters is used in irrigating research plots at the Snake River Conservation Research Center, a trailer to carry this pipe from one plot to another and from one farm to another was needed. Commercial trailers were not equipped to carry more than one type of pipe — so this trailer was made in the shop.

The trailer's main member was made from 4-in. standard wall (0.237 in.) black pipe with five 4-in. uprights welded to it on 7-ft 6-in. centers. Each upright has three arms extending 34 in. on each side. These are of 1¼ in. pipe welded at an 80-deg angle. These uprights create six sections for stacking pipe.

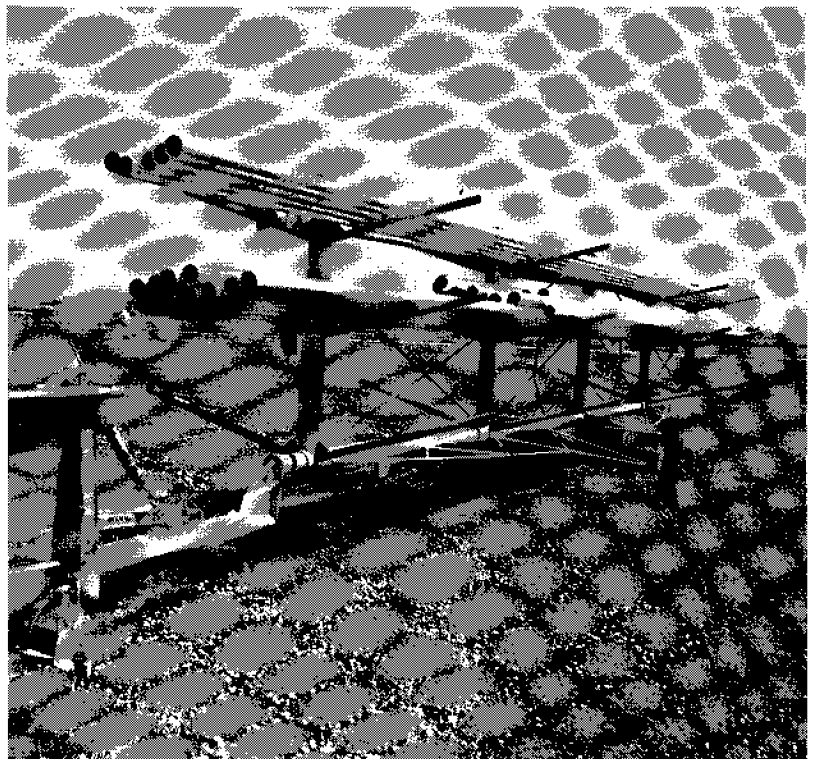
Both the main pipe and the uprights are cross-braced with ¾ in. steel rods to form trusses. These add both vertical and horizontal rigidity.

The tongue fits on either end of the trailer and can be removed merely by taking out one bolt. This gives added maneuverability on small plots.

The trailer can hold 8000 ft of 4-in. pipe or 1800 ft of 8-in. pipe in 40-ft lengths. The Research Center uses both sprinkler and gated pipe systems. The

pipe is 2, 3, 4, 6, or 8 in. in diameter and 10, 20, 30 or 40 ft in length. This trailer design permits carrying pipe in all these sizes and lengths at the same time — keeping the various sizes separate. Its cost was \$353.19 for material and labor; a commercial trailer with about the same total capacity but in a single pipe size would cost \$350. ● ●

**ONE BOLT HOLDS TONGUE:** To avoid having to turn trailer around on small plots, tongue can be easily fitted on either end



Production of a new design, introduction of a significantly different manufacturer's product, and other important developments showing "agricultural engineering in action" will be featured as space permits. Manufacturers may submit reports on new developments for consideration

This is a contribution from the Northwest Branch, SWCRD, ARS, USDA, and prepared in cooperation with the Idaho Agricultural Experiment Station. William H. Heinemann is machinist lead foreman and Thomas F. Marzocca is a welder at the Snake River Conservation Research Center at Kimberly, Idaho.