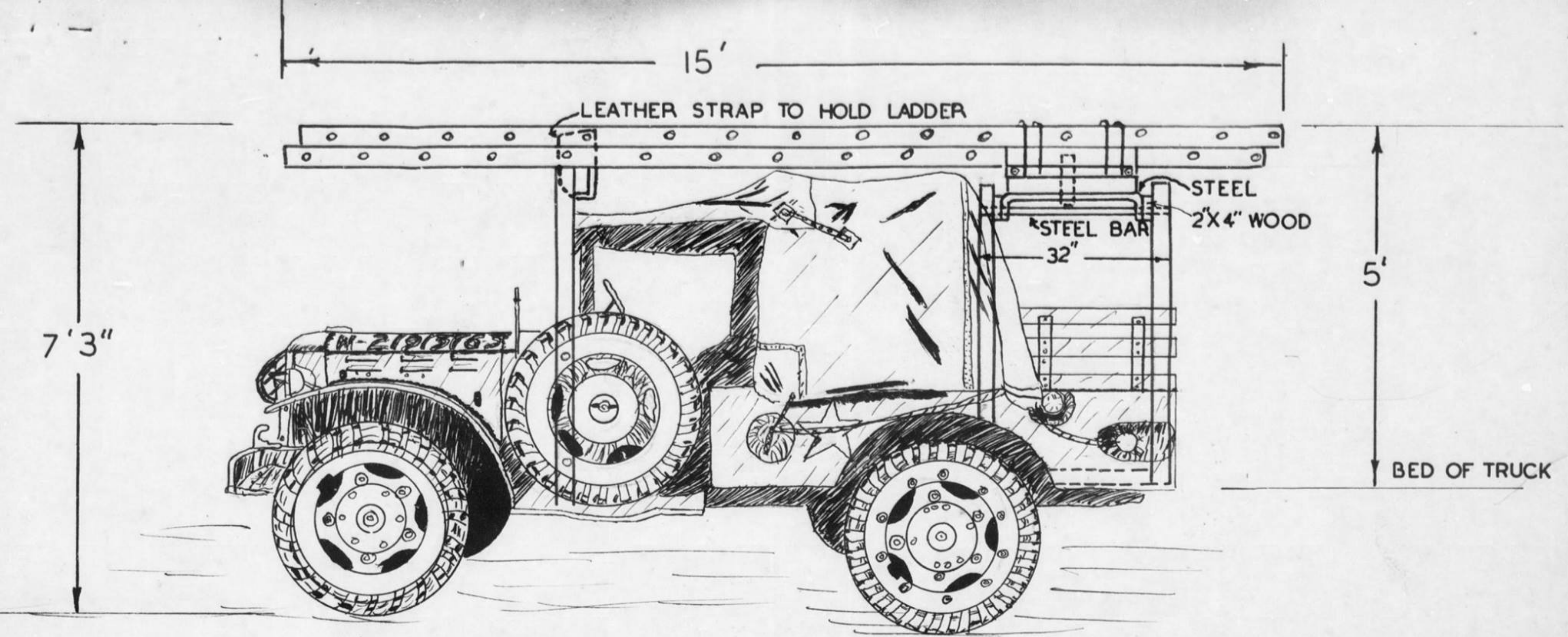


## LADDER FOR MAINTENANCE CREW.

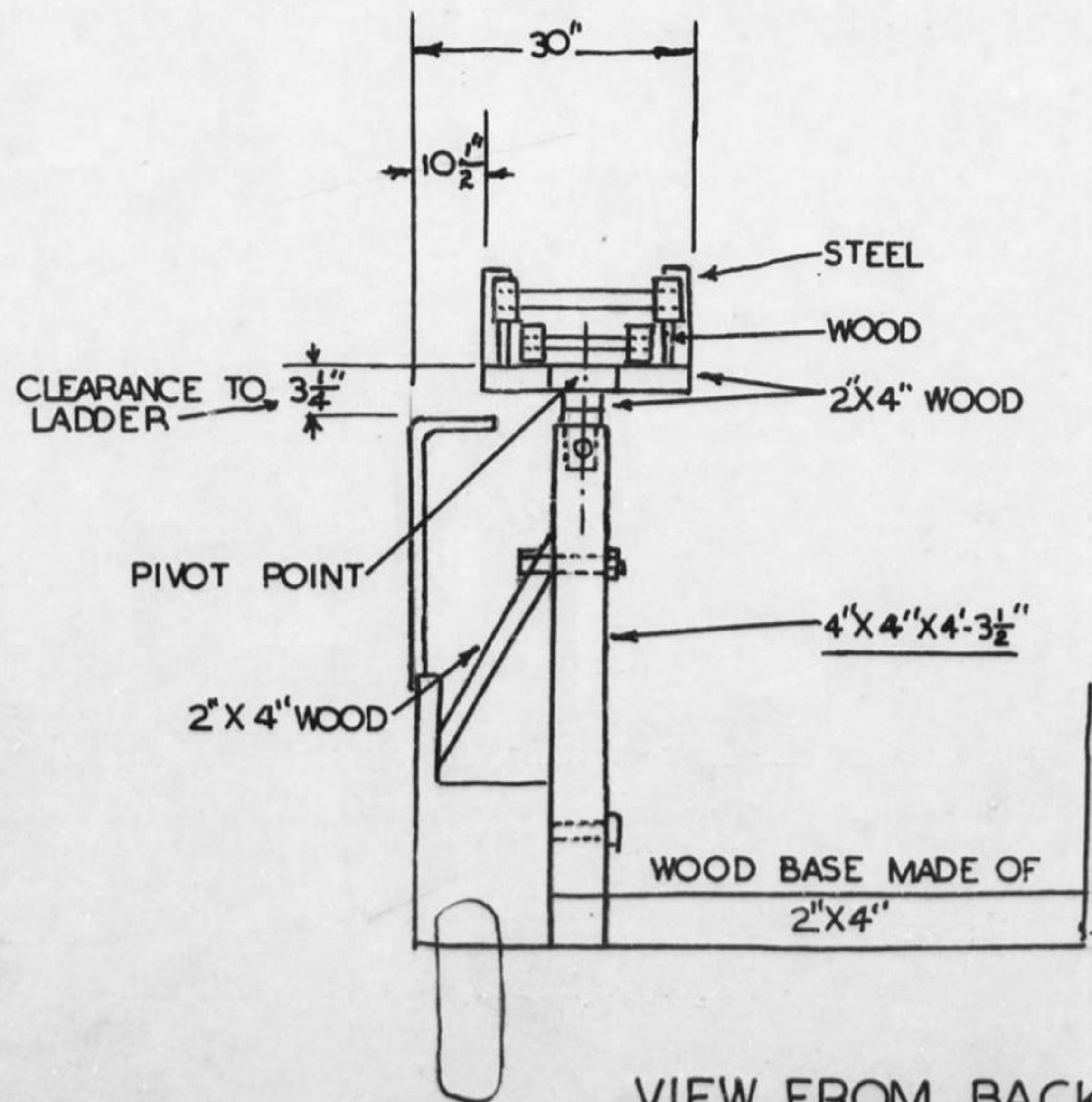
Detachment "D" of the 3110th Signal Service Battalion was responsible recently for installation, maintenance and repair of a portion of the Spiral Four Cable system at Headquarters ETOUSA, APO 871. During the time that they installed and maintained this equipment they ran into some difficulties particularly as the installation and operation of this type of equipment were comparatively new to them. One of the main difficulties encountered was the maintenance and repair of the cable in the middle of a span. The lengths of the cable did not always allow a coupling or connector to fall on or next to the pole so that a lineman could work on the coupling from the pole. This situation brought about the construction of a ladder rack and pivot which was constructed on a 3/4-ton weapons carrier. This equipment was so designed that it could be easily set up under almost any circumstances and on difficult terrain. The ladder can be set up on the rear of the truck at almost any angle, thereby permitting the lineman to have a reasonably comfortable and safe position in which to work. Another factor is that the ladder can be put in place by one man in a very short time. This cuts down on the number of men needed for trouble shooting and frees personnel to be used elsewhere if necessary. The speed with which the trouble shooting crew can operate using this equipment cuts down materially the time a circuit is out of order.

This equipment was designed by 1st Lt. Robert Immendorf of Det. "E" of the 3110th Signal Service Bn, with the assistance of his crew. Illustrations taken from photographs and shop drawings.

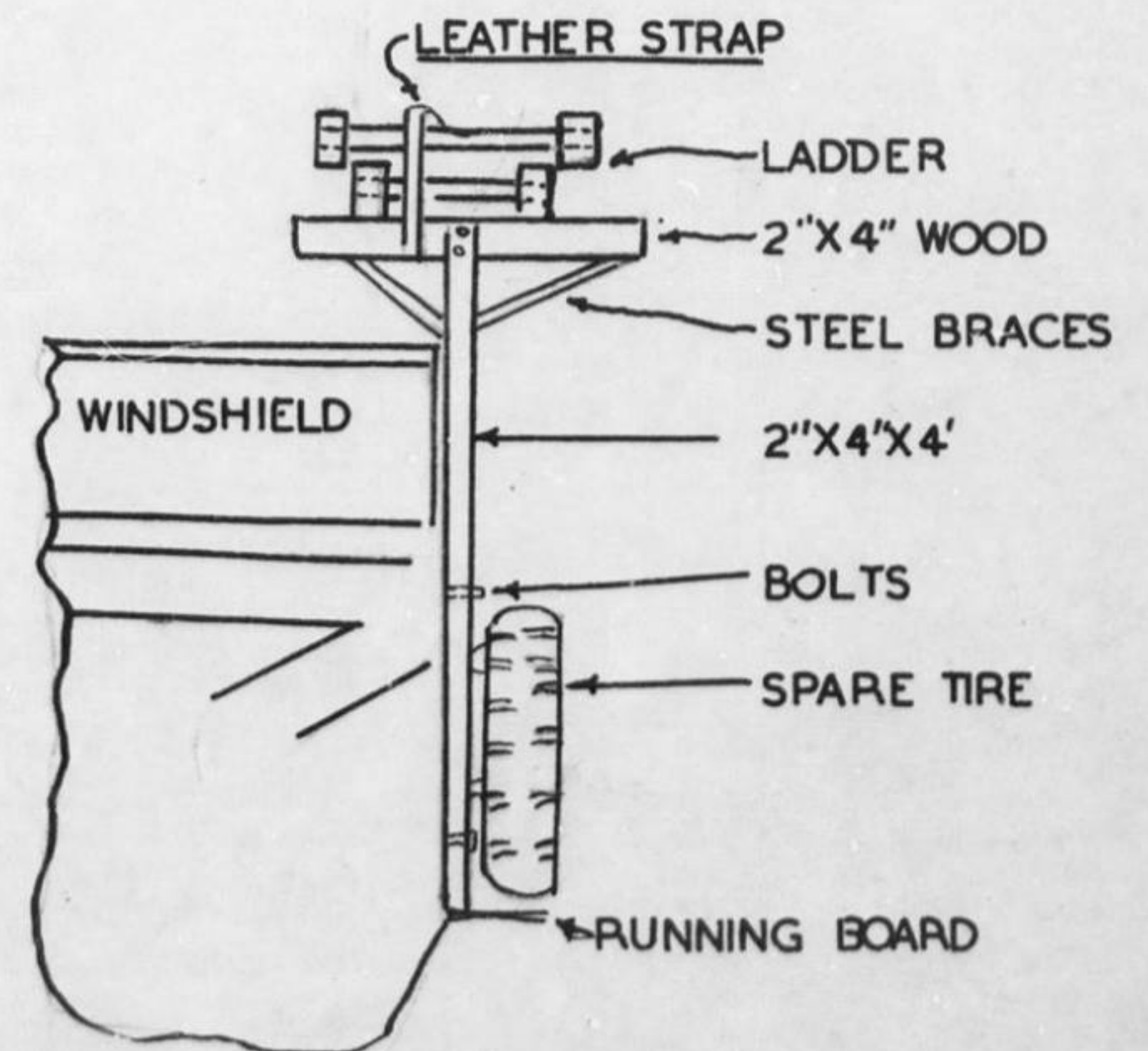




SIDE VIEW



VIEW FROM BACK



VIEW FROM FRONT



Fig. 2 - Showing detail of base with  
boxes to hold ladder firm  
at various angles.

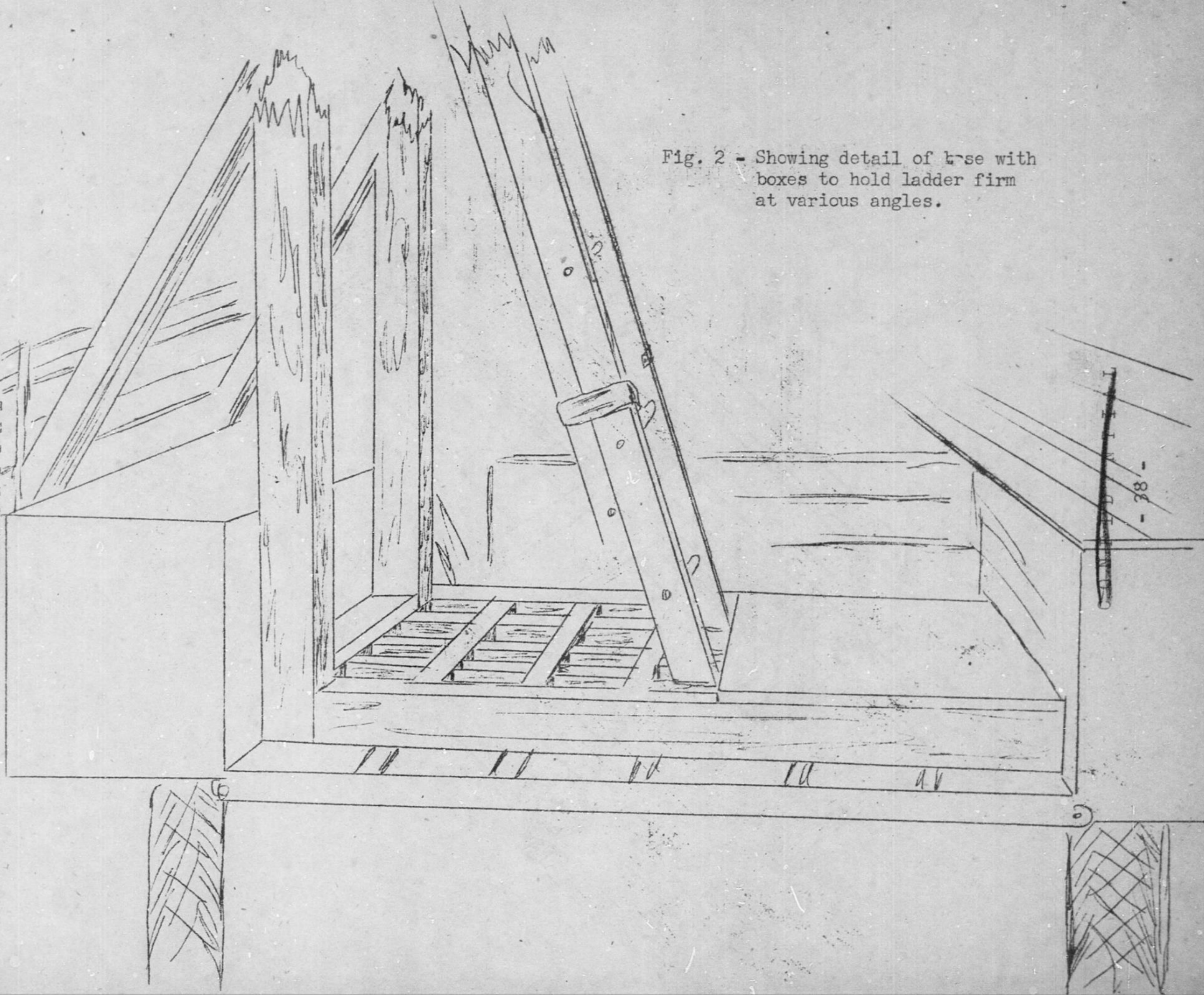
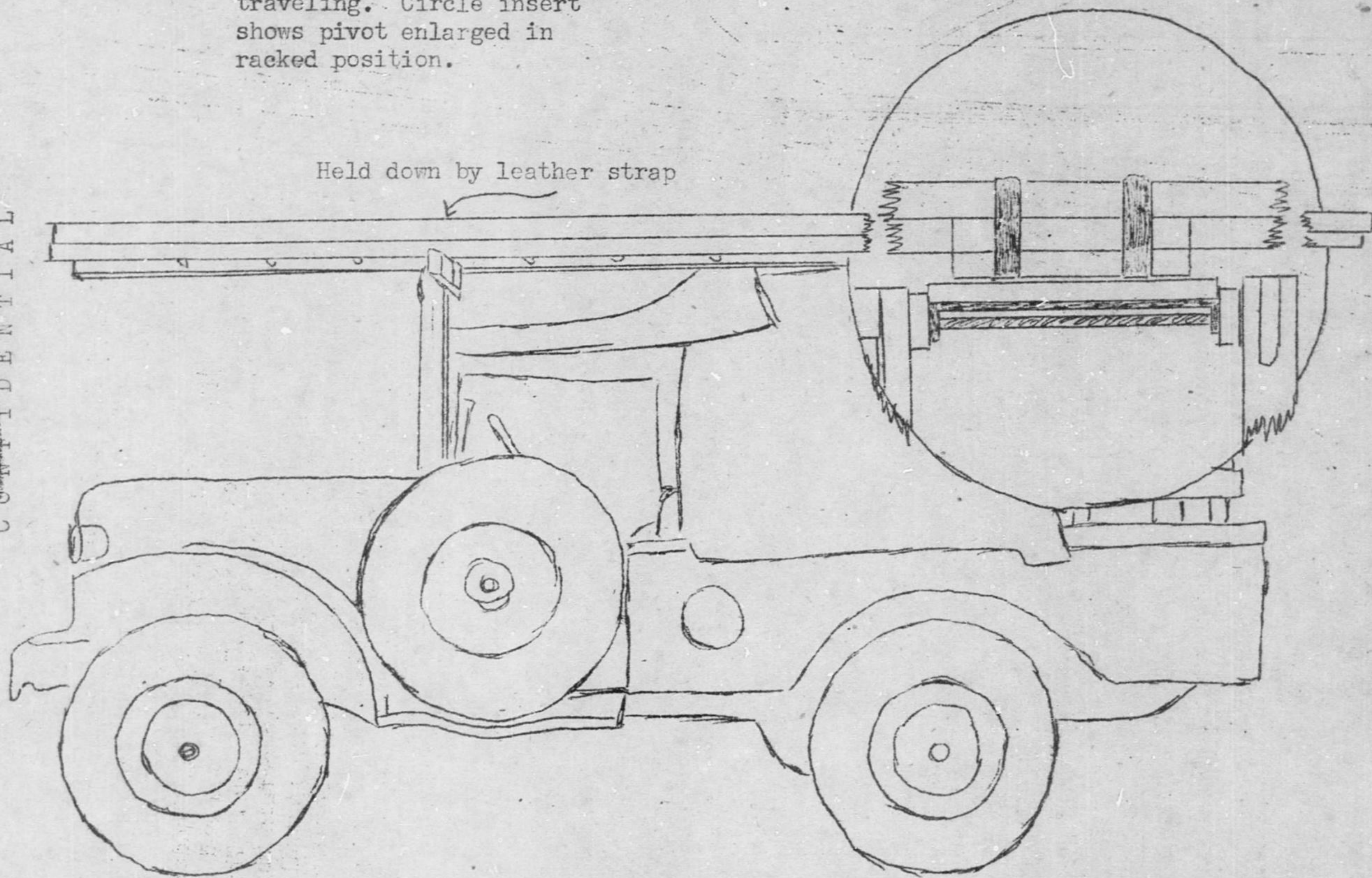




Fig. 3 - Showing ladder racked for traveling. Circle insert shows pivot enlarged in racked position.





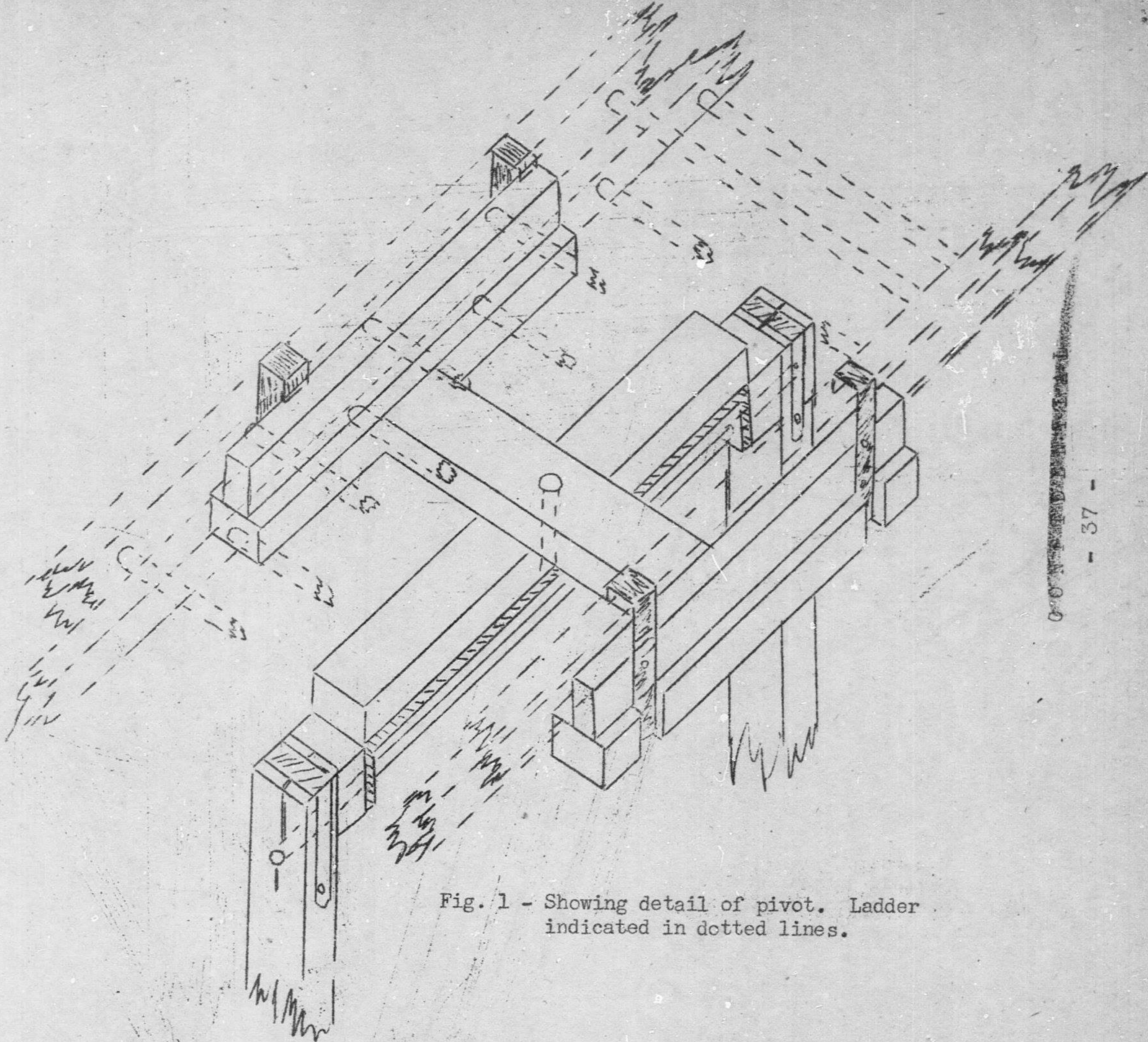


Fig. 1 - Showing detail of pivot. Ladder indicated in dotted lines.



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Fig. 4 - Showing various angles ladder can be placed - forward and back and to either side. This enables workman to obtain safe, comfortable position regardless of terrain and grade on which truck is parked.

