

## Car Construction Committee's Report.

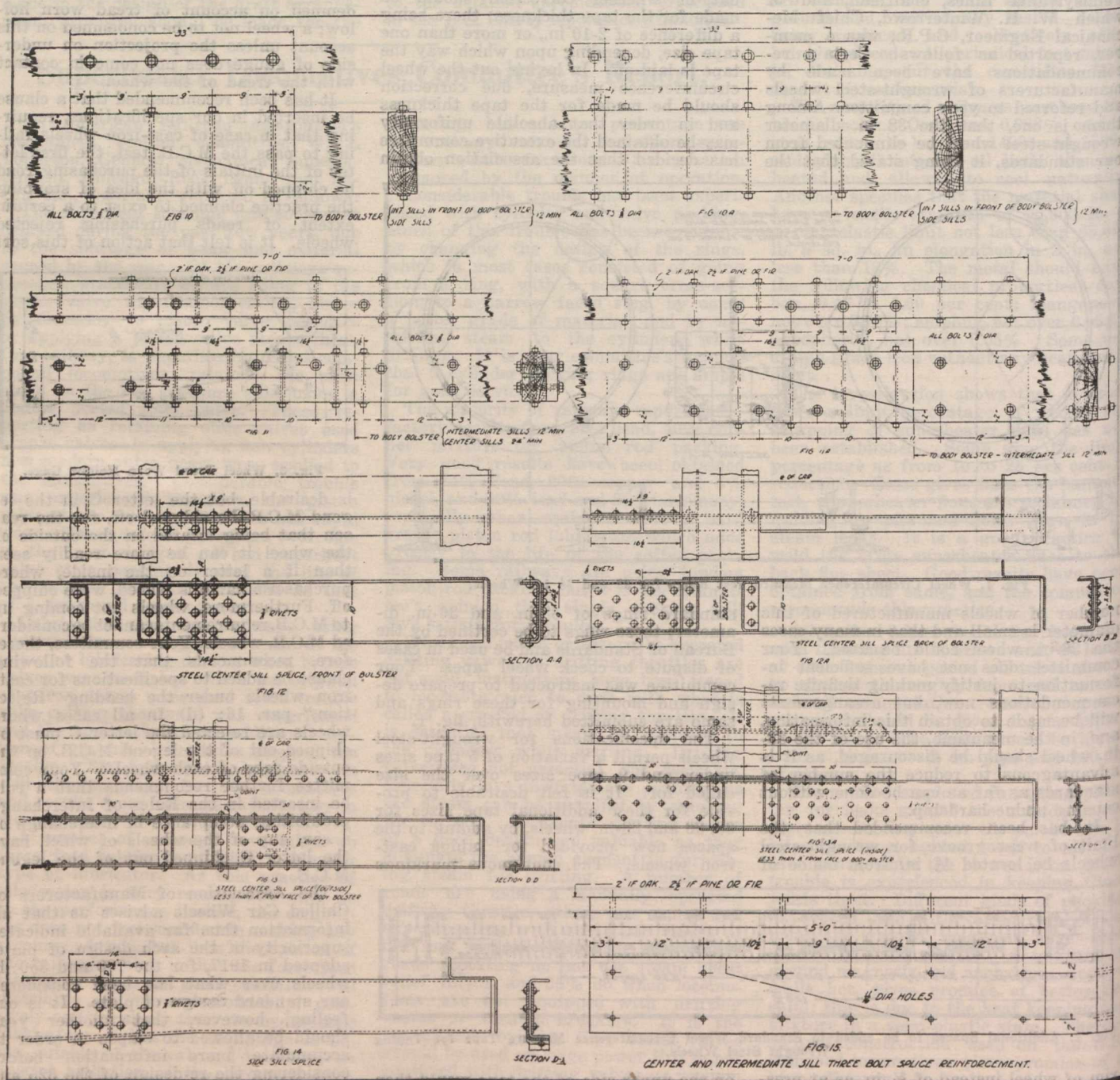
An American Railroad Association's mechanical section committee, W. F. Keisel, Jr., acting Mechanical engineer, Pennsylvania Rd., chairman, reported as follows:

In the past year, the subjects referred to your committee were: 1, Revision of rule 22, 1917, Code of Rules of Interchange; and 2, Suggested provision for side door openings 10 ft. wide in all box

"Cars having wooden sills—Draft timbers must not be spliced. Longitudinal sills must not be spliced between or over cross-bearers. Longitudinal sills (intermediate or side sills) may be spliced at both ends, on either side of body bolster. The nearest part of the splice must not be less than 12 in. from edge of body bolster. Intermediate sills, spliced between body bolster and cross-bearer,

the reinforcement shall be applied in accordance with fig. 15. Center sills shall be spliced only between body bolster and cross-tie timber. The nearest part of the splice must not be less than 24 in. from edge of body bolster. Center sill splices shall be in accordance with fig. 11. The diameter of horizontal or vertical splice bolts shall be  $\frac{5}{8}$  in.

"Cars having steel center sill splices



### Diagrams of Car Construction Recommendation.

cars, the side door proper to be 6 ft. wide, with a removable door post, and an auxiliary door 4 ft. wide.

M.C.B. enquiry circular 19 was sent out to all members, asking for suggestions and recommendations for change in rule 22 of Code of Interchange, and the replies thereto were carefully considered by your committee, based on which the following rule has been formulated, and is offered herewith as a substitute for present rule 22.

must be reinforced as per figs. 11 or 11-A. Intermediate sills, spliced between bolster and end of cars, and side sill, spliced on either side of bolster, must be in accordance with figs. 10 or 10-A. When splicing or renewing any longitudinal sill, reinforcement shall be applied to all existing non-reinforced splices, in all sills except side sills. If the old splice is a 4-bolt splice, it shall be reinforced in accordance with figs. 11 or 11-A. If the old splice is a 3-bolt splice,

located at least 7 in. from face of bolster. Adjacent sills may be spliced. All splices shall be of the butt-joint type, reinforced on both sides by plates of not over 24 in. in length, and not less than twice the length of the protruding end when the projection is less than 12 in. The reinforcing plates shall be at least as thick as the web of the sill. The splice plate on the flange side of the sill shall be U-shaped, to include flanges, while the plate on the opposite side shall cover the web