

10-6. WELDING SYMBOLS

Figure 10-5 presents the method of making welding symbols, developed by the American Welding Society.³ With this excellent shorthand

		TYPE OF WELD				
		Plug or Slot	Groove			J
			Square	V	Bevel	
Bead						
Fillet						

Basic arc and gas weld symbols.

Weld all Around	Field Weld	CONTOUR	
		Flush	Convex

Supplementary symbols.

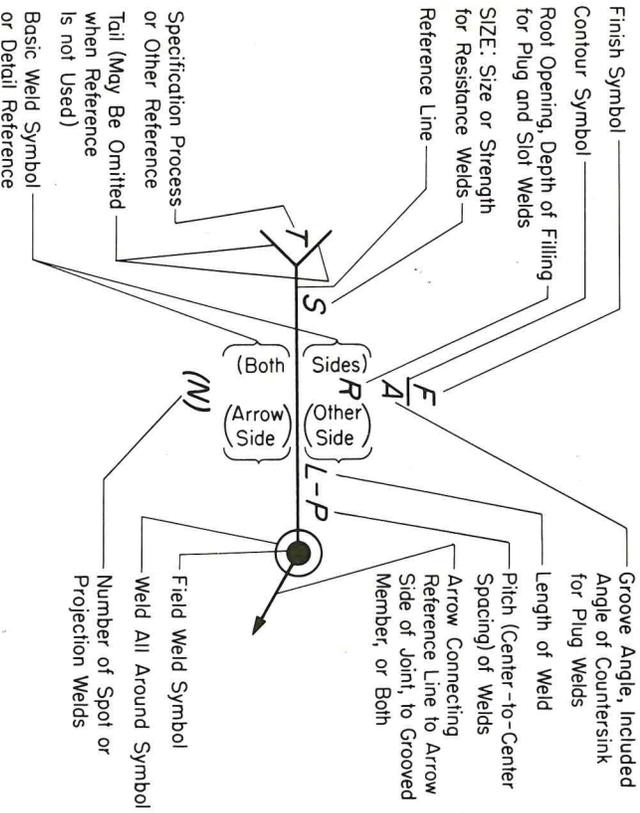


Fig. 10-5

³ Lincoln Electric Company, *Procedure Handbook of Arc Welding Design and Practice* (11th ed.), 1957. Courtesy of the publisher.

system a great deal of information can be presented in a small space. The engineering plans and drawings with a few lines and numbers. The symbols remove the necessity of drawing in the welds and making descriptive notes. It is certainly desirable for steel designers and draftsmen to use this standard system. Should most of the welds on a drawing be of the same size, a note to that effect can be given and the symbols omitted, except for the off-size welds.

The purpose of this section is not to teach the student every possible type of symbol but rather to give him a general idea of the appearance of welding symbols and the information which they can show. He can refer to the detailed information published by the AWS and reprinted in many handbooks (including the *Steel Handbook*). At first glance the information presented in Fig. 10-5 is probably quite confusing to the student. For this reason a few very common symbols for fillet welds are presented in Fig. 10-6, together with an explanation of each.

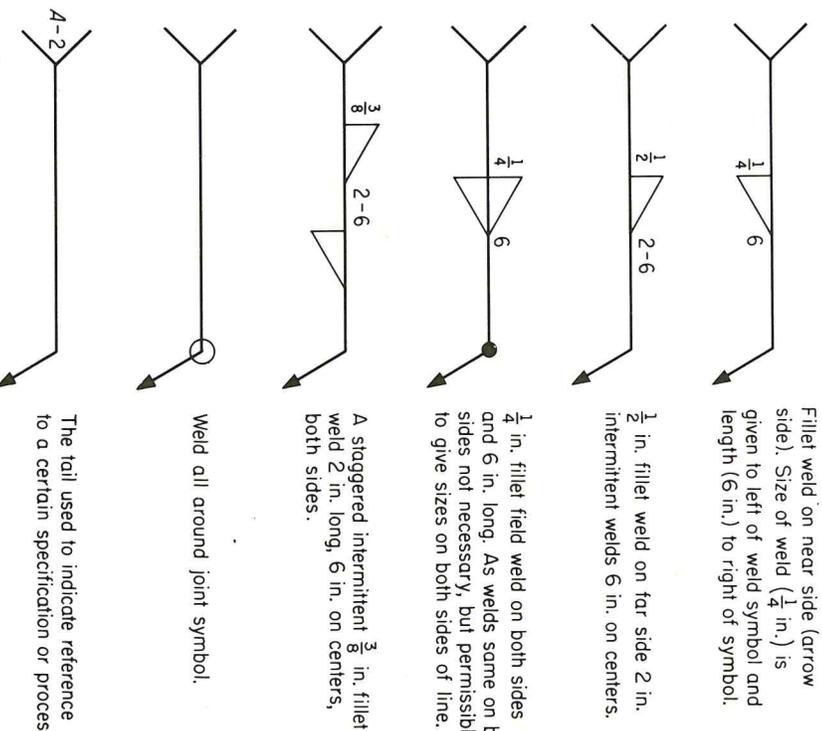


Fig. 10-6