

FIG. 37-COMPARISON OF ELONGATION MEASURED OVER VARIOUS GAGE LENGTHS-
BRITTLE SPECIMEN
SPECIMEN C-1A, TEMPERATURE 32°F
DASH LINE REPRESENTS NOTCH EDGE
RESIDUAL ELONGATION MEASURED ON ONE FACE ONLY

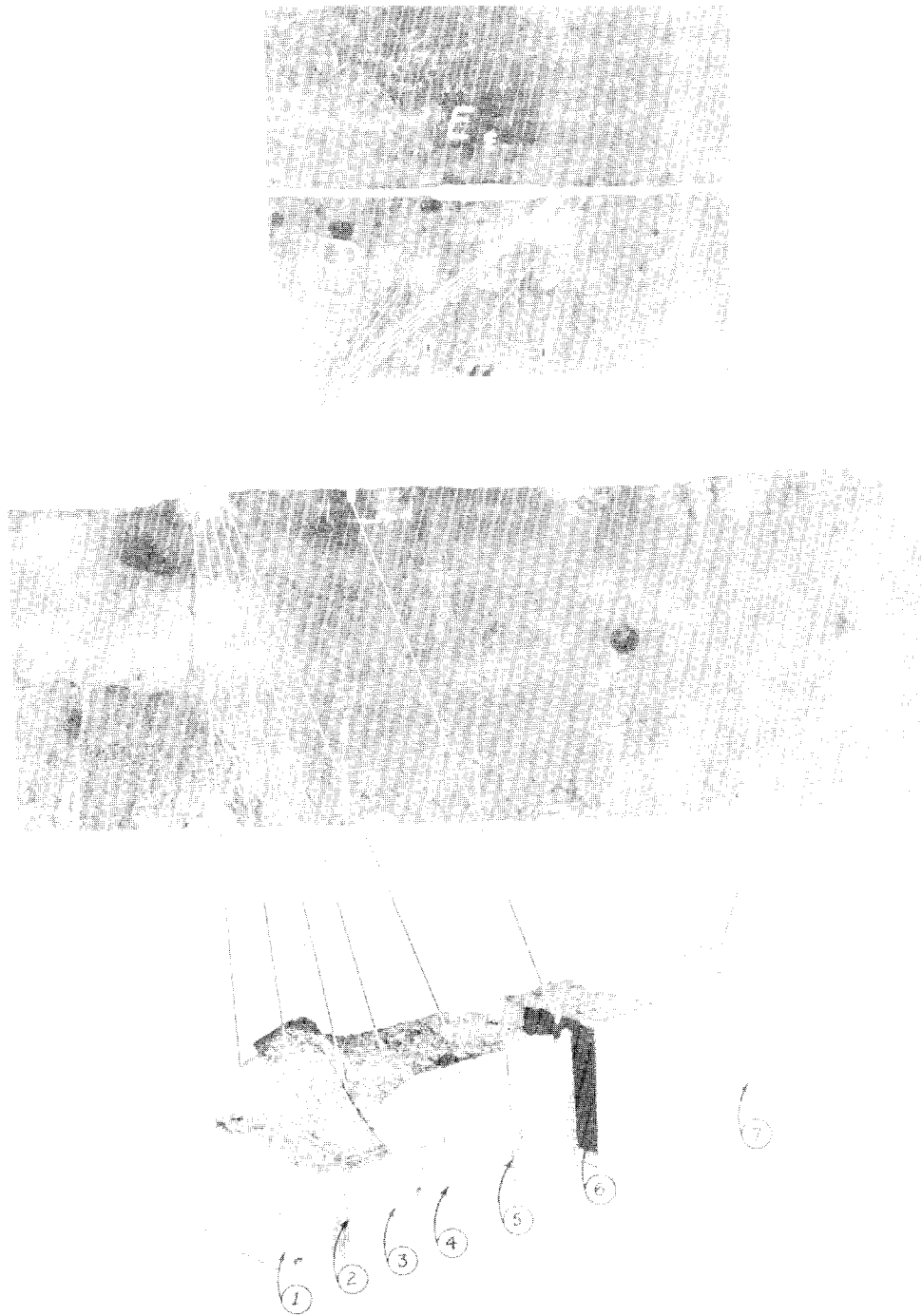


FIG. 38 VIEW OF FRACTURED SPECIMEN B-1A SHOWING LOCATION OF SAMPLES FOR MICROHARDNESS SURVEY

STEEL: 0.17 CARBON, 0.71 MANGANESE, AS ROLLED
 SPECIMEN: 72 IN. WIDE BY $\frac{3}{4}$ IN. THICK
 FRACTURE: $\frac{3}{4}$ IN. SHEAR, REST CLEAVAGE
 TEMPERATURE OF TEST: 32 F
 AVERAGE STRESS AT FAILURE: 38,000 PSI