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AERONCA AIRCRAFT CORPORATION
MIDDLETOWN, OHIO

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REPORT 7A-P-4
SECTION .012

.012 WINGS AND STRUTS

The wings are of the conventional two wood spar, single wire drag truss construction with one piece stamped 52S aluminum ribs and fabric covering. The ribs are braced laterally with reinforcing tape. The leading edge of the wing is covered with -52S aluminum alloy with the trailing edge formed of aluminum sheet. The wing tip is made of SAE 1025 round steel tubing. The spars are made of spruce with birch plywood pads at the root end and strut point.

The struts are made of SAE 1010 steel forming a "Vee" with the apex at the fuselage attaching point. The jury struts connect the midpoint of the struts vertically with the spars and are made of X4130 steel oval tube.

.013 AILERONS

The ailerons are of the semi-frise type fabricated from formed 52S aluminum ribs, leading edge, and trailing edge. The entire assembly is riveted together and covered with fabric.

.014 EMPENNAGE

The stabilizer (tail plane), elevator, fin, and rudder which make up the empennage, are all made of welded steel construction. The leading and trailing edges which act as spars are made of SAE 1025 or X4130 steel tubing with die stamped 1010 steel ribs welded to