GENERAL NOTES

THESE DRAWINGS WERE MADE BY DOSS R STEED JR FROM 4000 MICROFILM FACTORY DRAWINGS OF NORTH AMERICAN AIRCRAFT. BUILDING PLANS INCLUDE ALL PATTERNS FOR THE AIRPLANE AND THE JIGS.

PLANS SOLD SEPARATELY

BUILDING PLANS
PLANS FOR SCALE LANDING GEAR,
PLANS FOR SCALE PROP,
PLANS FOR SCALE CONVIT,
THREE VIEW DRAWINGS FOR **DOCUMENTATION**

PARTS AVAILABLE FROM STEED STUFF:

1. SCALE FIBERGLAS SPINNER FOR DISPLAY.
2. SCALE ALUMINUM SPINNER FOR DISPLAY.
3. SCALE PROPELLER BLADES.
4. SCALE WHEELS, TIRES, READY TO INSTALL.
5. LANDING GEAR PARTS--(CASTINGS, NO MACHINING)
6. CARBURETOR AIR SCOOP CASTING.
7. SCALE WHEEL AND TIRE ASSEMBLIES.
8. EXHAUST SHROUDS, RIGHT AND LEFT.
9. CANOPY, WINDSHIELD AND COCKPIT COVER. WITH INSTALLATION DRAWINGS.
10. SCALE PROPELLER HUBS.
11. FIBERGLAS INNER AND OUTER LANDING GEAR DOORS.
12. VACUUM FORMED INSIDE DOOR COVERS (FOR LANDING GEAR DOORS)

ABBREVIATIONS USED ON DRAWINGS:

AP = AIRCRAFT PLYWOOD
FRL = FUSELAGE REFERENCE LINE.
℄ = CENTER LINE
LP = LIGHT PLYWOOD
FG = FIBERGLAS
SS = STEED STUFF
WRL = WING REFERENCE LINE

BUILDING SUGGESTIONS

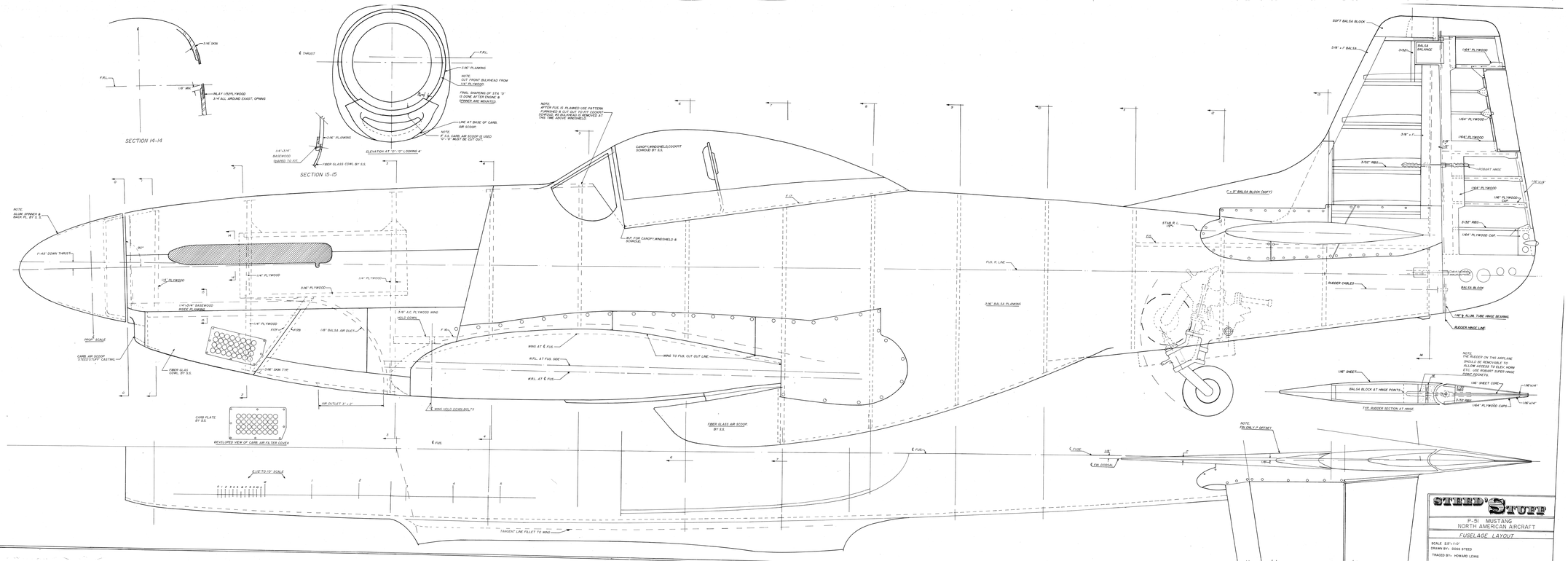
FUSELAGE: BUILD FUSELAGE AS AS SHOWN,USING A GOOD LEVEL SURFACE. MOUNT THE FUSELAGE BULKHEADS ON THE JIG UPSIDE DOWN (YOU CAN PLANK RIGHT SIDE UP IF YOU WISH) AND PLANK THE BOTTOM FIRST. START WITH 1 INCH BY 3 INCH BALSA WOOD ON EACH SIDE. THEN SKIP TO THE BOTTOM AND START PLANKING ON THE FUSELAGE ℄. NOW YOU HAVE THREE SIDES PLANKED. THE REST IS EASY. USE SHEET BALSA AS YOUR WORK PROGRESSES. COMPLETE PLANKING ALL AREAS EXCEPT THE LEADING EDGE SO YOU CAN DO. BEFORE YOU PLANK THE NOSE, BE SURE TO INSTALL THE FIREWALL. THE JIGS MAY HAVE TO BE REMOVED TO BE REMOVED FROM THE JIG AND THE PLANKING COMPLETED ON THE TOP.

WING: LAY OUT PLAN AND POSITION WING JIGS OVER PLAN, WHERE SHOWN. PLACE RIBS IN RESPECTIVE SLOTS. BE SURE RIBS ARE SQUARE TO THE TABLE--USE A SQUARE ON EACH RIB. TACK GLUE RIBS AT TOP AND BOTTOM. NOW CHECK FOR STRAIGHT, NO CROWN LEADING EDGE AND TRAILING EDGE. YOU SHOULD SEE A STRAIGHT LINE. CROWN LEADING EDGE UP. THE RIBS ARE CUT OF LINE. NOW INSTALL LEADING EDGE. INSTALL ALL SPARS. BE SURE THE WING IS SQUARE. IF LANDING GEAR IS TO BE USED, BE SURE AT RIB 6 IS SQUARE IN ALL DIRECTIONS. INSTALL DIHPRAM BETWEEN TIN 6 R/H RIB. USE EPOXY OR TIGHT BOND GLUE. NOW PLANK THE TOP OF THE WING. WET PLANKING WITH WATER AND LAY ON THE TABLE WITH NO STRESS, IN WING. NOW PLANK LEADING EDGE BACK TO JIG AND BETWEEN THE JIGS.

REMOVE JIGS AND COMPLETE SHEETING OF MIDDLE SECTION. DO THE OPPOSITE WING PANEL, BUT DO NOT COVER UP THE VERTICAL SPAR. WHEN YOU JOIN THE WING PANELS TOGETHER, YOU WILL HAVE TO CUT AWAY SOME OF THE SHEETING TO JOINED THE TWO WING PANELS.TRIM THE SHEETING EXCEPT TWO INCHES ON EITHER SIDE OF THE FLAP AND ALERON ON THE UNDER SIDE. NOW CUT OUT THE FLAP AND ALERON. USE A SHARP KNIFE AND A STEEL STRAIGHT EDGE. IT IS A LITTLE DIFFICULT, BUT CAN BE DONE WITH A LITTLE PATIENCE. IT IS NECESSARY TO BUILD THE WING WITH THE AILERONS AND FLAPS ATTACHED BECAUSE OF THE SPARS. NOW CUT OUT THE WHEEL WELLS. TRIM SHEETING RIGHT OVER THE OPENING FOR THE LANDING GEAR AND CUT THEM OUT. WHEN I INSTALL THE GEAR. ALL REST IS STRAIGHT FOWARD.

FIN & STAB: BUILD IN HALVES OVER THE PLANS AND GLUE TOGETHER.

RUDDER: BUILD WITH 1/4IN BALSA CORE.

ELEVATOR: USE SOFT BALSA, I USED A CARBON FIBER STRIP, 1/8 BY .007, ON THE LEADING EDGES OF BALSA AROUND THE OUTSIDE EDGES. THIS PREVENTS A LOT OF DAMAGE.

THE PROTOTYPE FLEW RIGHT OFF THE BOARD AND **WISHNED IN AT 27 POUNDS** READY TO GO. POWER WAS A SADHS 52. GOOD LUCK! DOSS