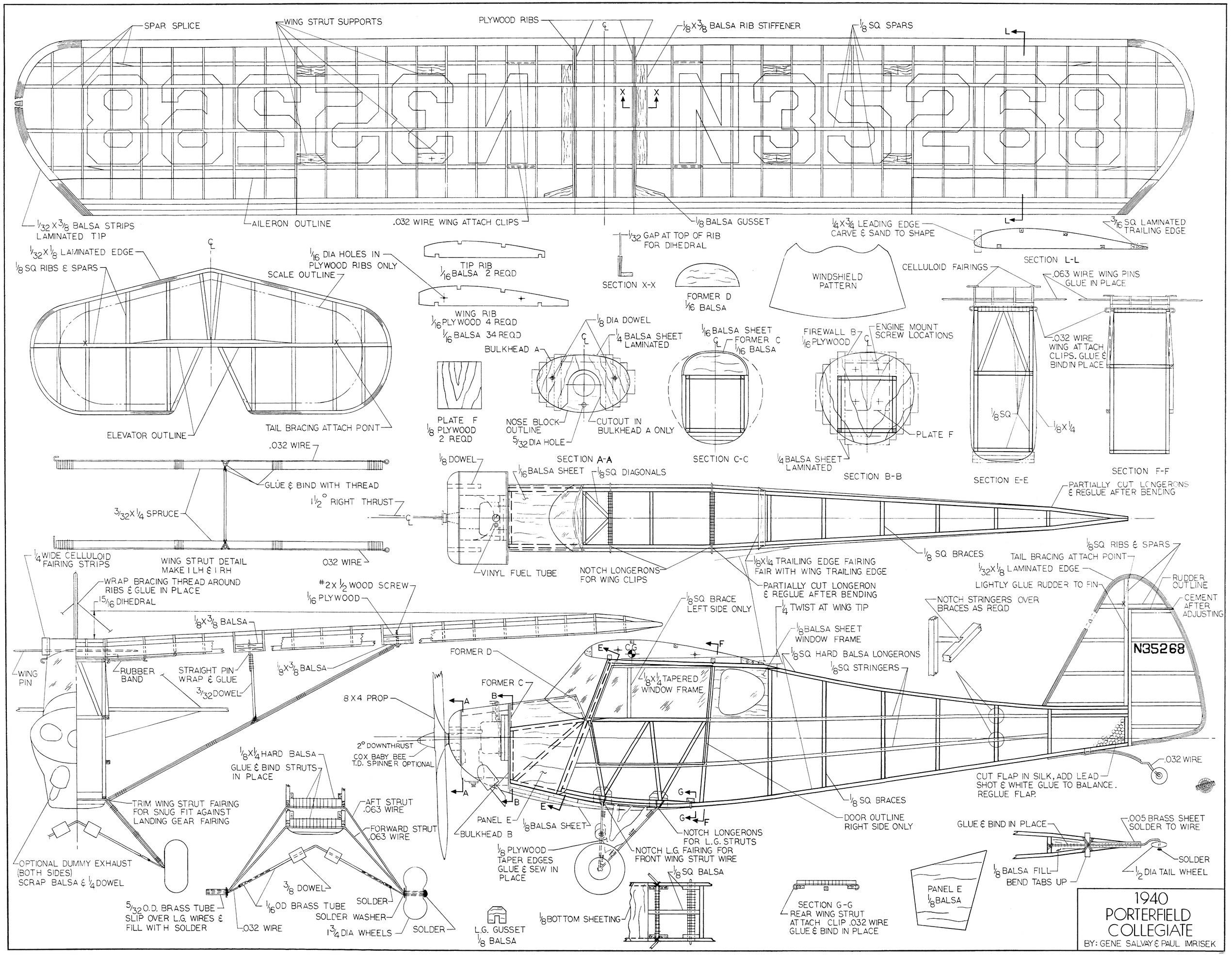
SPAR SPLICE
WING STRUT SUPPORTS
PLYWOOD RIBS
1/8 X 3/8 BALSA RIB STIFFENER
1/8 SQ. SPARS
1/32 X 3/8 BALSA STRIPS LAMINATED TIP
AILERON OUTLINE
.032 WIRE WING ATTACH CLIPS
1/8 BALSA GUSSET
1/4 X 3/4 LEADING EDGE CARVE & SAND TO SHAPE
3/16 SQ. LAMINATED TRAILING EDGE
SECTION L-L
1/32 X 1/8 LAMINATED EDGE
1/8 SQ RIBS & SPARS
1/16 DIA HOLES IN PLYWOOD RIBS ONLY
SCALE OUTLINE
ELEVATOR OUTLINE
TAIL BRACING ATTACH POINT
TIP RIB 1/16 BALSA 2 REQD
WING RIB 1/16 PLYWOOD 4 REQD 1/16 BALSA 34 REQD
1/32 GAP AT TOP OF RIB FOR DIHEDRAL
SECTION X-X
FORMER D 1/16 BALSA
WINDSHIELD PATTERN
CELLULOID FAIRINGS
.063 WIRE WING PINS GLUE IN PLACE
.032 WIRE WING ATTACH CLIPS. GLUE & BIND IN PLACE
1/8 SQ
1/8 X 1/4
SECTION E-E
SECTION F-F
PLATE F 1/8 PLYWOOD 2 REQD
1/8 DIA DOWEL
1/4 BALSA SHEET LAMINATED
BULKHEAD A
NOSE BLOCK OUTLINE
5/32 DIA HOLE
CUTOUT IN BULKHEAD A ONLY
SECTION A-A
1/16 BALSA SHEET
FORMER C 1/16 BALSA
SECTION C-C
FIREWALL B 1/16 PLYWOOD
ENGINE MOUNT SCREW LOCATIONS
PLATE F
1/4 BALSA SHEET LAMINATED
SECTION B-B
.032 WIRE
GLUE & BIND WITH THREAD
3/32 X 1/4 SPRUCE
WING STRUT DETAIL MAKE 1 LH & 1 RH
1/4 WIDE CELLULOID FAIRING STRIPS
1 1/2° RIGHT THRUST
1/8 DOWEL
1/16 BALSA SHEET
1/8 SQ DIAGONALS
PARTIALLY CUT LONGERONS & REGLUE AFTER BENDING
VINYL FUEL TUBE
NOTCH LONGERONS FOR WING CLIPS
1/8 SQ BRACES
1/8 X 1/4 TRAILING EDGE FAIRING FAIR WITH WING TRAILING EDGE
PARTIALLY CUT LONGERON & REGLUE AFTER BENDING
1/8 SQ RIBS & SPARS
TAIL BRACING ATTACH POINT
1/32 X 1/8 LAMINATED EDGE
LIGHTLY GLUE RUDDER TO FIN
RUDDER OUTLINE
CEMENT AFTER ADJUSTING
WRAP BRACING THREAD AROUND RIBS & GLUE IN PLACE
15/16 DIHEDRAL
#2 X 1/2 WOOD SCREW
1/16 PLYWOOD
1/8 X 3/8 BALSA
1/8 SQ BRACE LEFT SIDE ONLY
1/4 TWIST AT WING TIP
NOTCH STRINGERS OVER BRACES AS REQD
1/8 BALSA SHEET WINDOW FRAME
1/8 SQ HARD BALSA LONGERONS
1/8 SQ STRINGERS
N35268
WING PIN
RUBBER BAND
STRAIGHT PIN WRAP & GLUE
3/32 DOWEL
1/8 X 3/8 BALSA
FORMER D
FORMER C
8 X 4 PROP
1/8 X 1/4 TAPERED WINDOW FRAME
2° DOWNTHRUST
COX BABY BEE T.D. SPINNER OPTIONAL
1/8 X 1/4 HARD BALSA
GLUE & BIND STRUTS IN PLACE
.032 WIRE
CUT FLAP IN SILK, ADD LEAD SHOT & WHITE GLUE TO BALANCE. REGLUE FLAP.
TRIM WING STRUT FAIRING FOR SNUG FIT AGAINST LANDING GEAR FAIRING
AFT STRUT .063 WIRE
FORWARD STRUT .063 WIRE
PANEL E
1/8 BALSA SHEET
BULKHEAD B
1/8 SQ BRACES
DOOR OUTLINE RIGHT SIDE ONLY
NOTCH LONGERONS FOR L.G. STRUTS
1/8 PLYWOOD TAPER EDGES GLUE & SEW IN PLACE
NOTCH L.G. FAIRING FOR FRONT WING STRUT WIRE
GLUE & BIND IN PLACE
.005 BRASS SHEET SOLDER TO WIRE
SOLDER
1/8 BALSA FILL BEND TABS UP
1/2 DIA TAIL WHEEL
OPTIONAL DUMMY EXHAUST (BOTH SIDES) SCRAP BALSA & 1/4 DOWEL
3/8 DOWEL
5/32 O.D. BRASS TUBE SLIP OVER L.G. WIRES & FILL WITH SOLDER
1/16 OD BRASS TUBE
SOLDER
SOLDER WASHER
.032 WIRE
1 3/4 DIA WHEELS
SOLDER
L.G. GUSSET 1/8 BALSA
1/8 SQ BALSA
1/8 BOTTOM SHEETING
SECTION G-G REAR WING STRUT ATTACH CLIP .032 WIRE GLUE & BIND IN PLACE
PANEL E 1/8 BALSA
1940 PORTERFIELD COLLEGIATE
BY: GENE SALVAY & PAUL IMRISEK