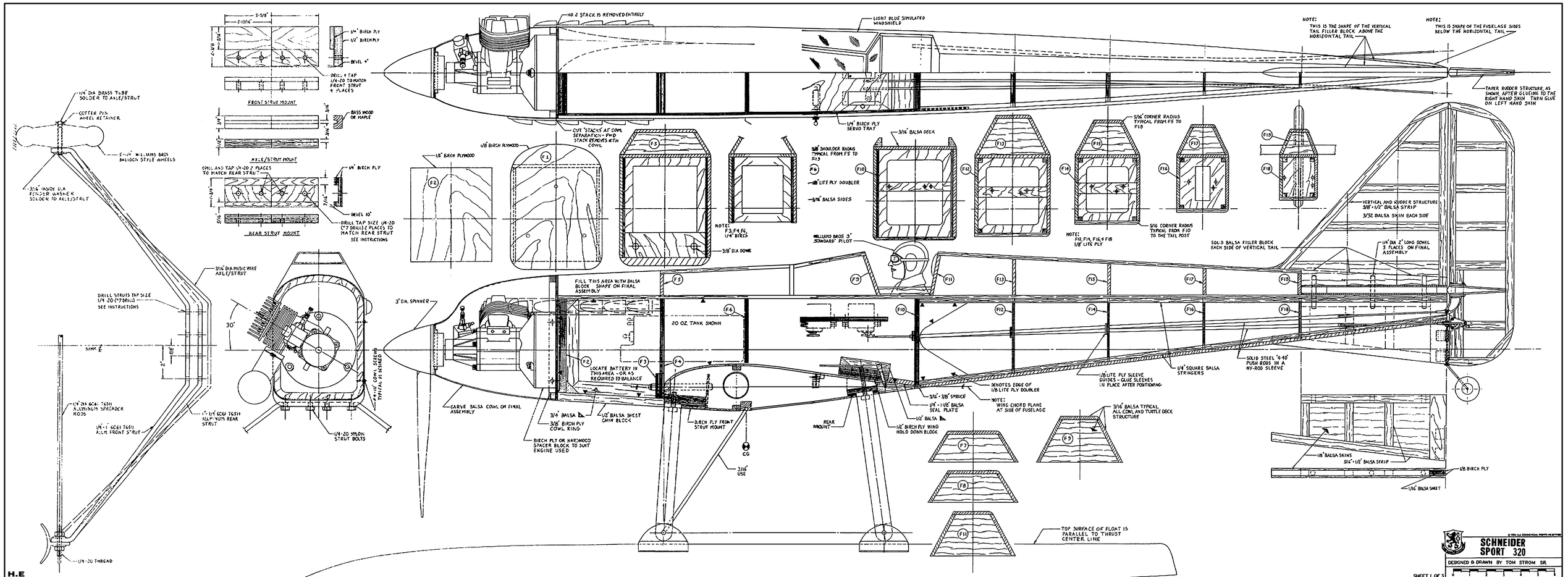
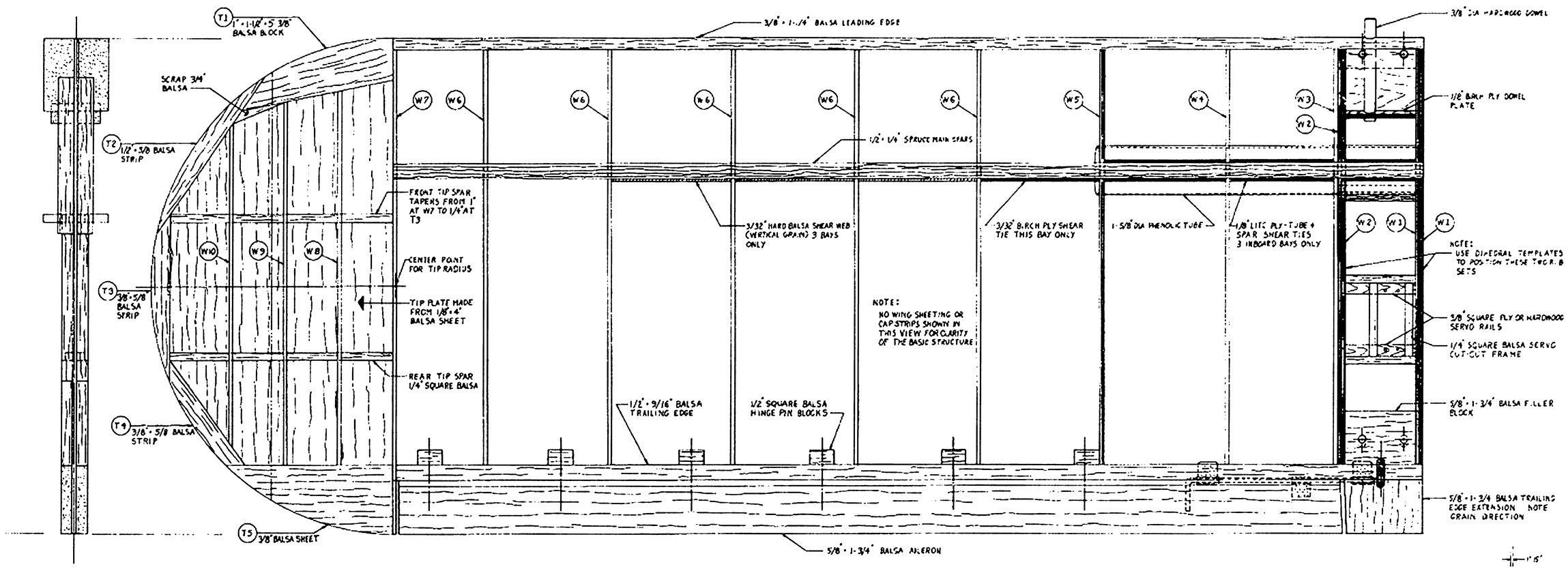
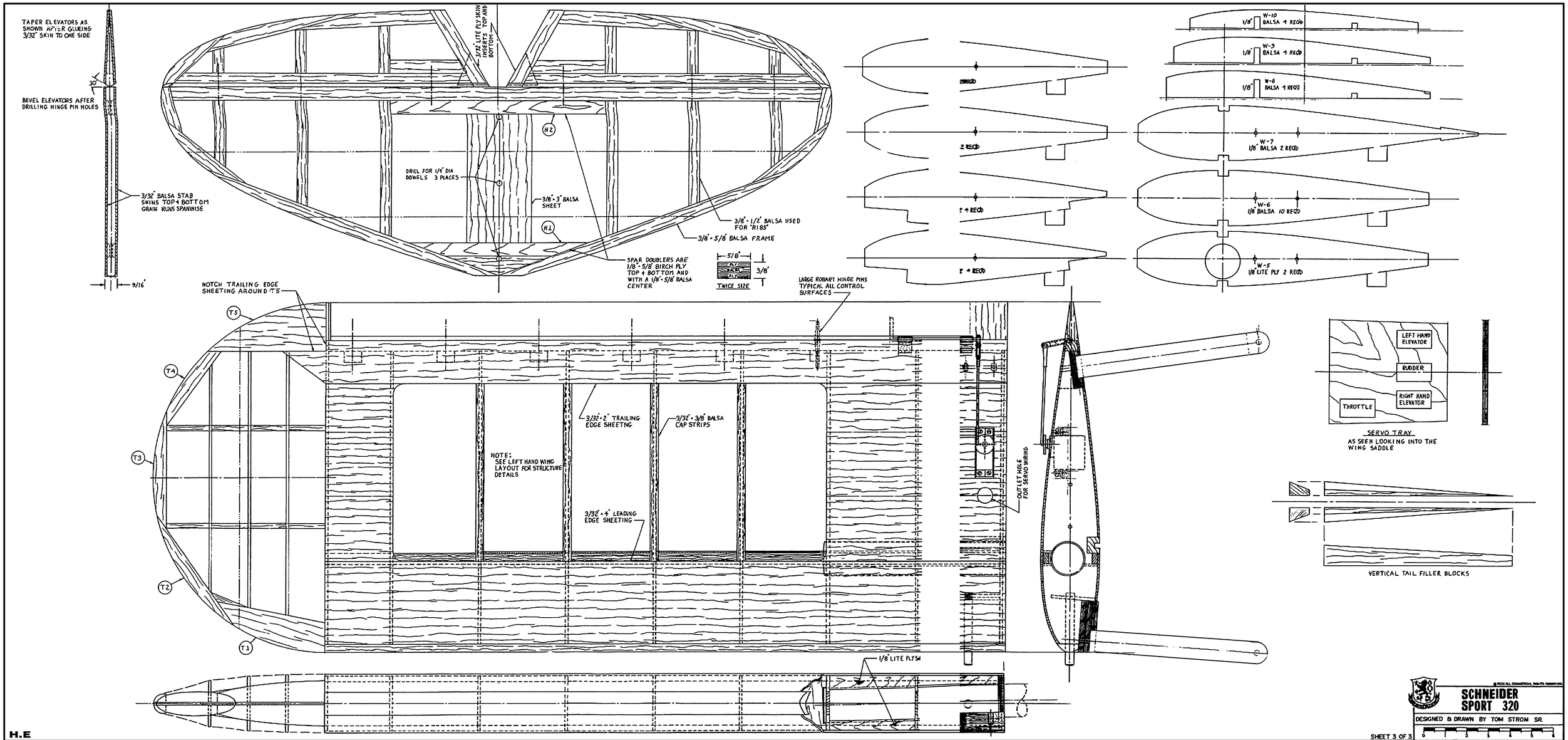

FRONT STRUT MOUNT
1/4" BIRCH PLY
1/2" BIRCH PLY
BEVEL 4°
DRILL + TAP 1/4-20 TO MATCH FRONT STRUT 4 PLACES
AXLE/STRUT MOUNT
BASS WOOD OR MAPLE
REAR STRUT MOUNT
1/4" BIRCH PLY
BEVEL 10°
DRILL TAP SIZE 1/4-20 (#7 DRILL) 2 PLACES TO MATCH REAR STRUT SEE INSTRUCTIONS
1/4" DIA BRASS TUBE SOLDER TO AXLE/STRUT
COTTER PIN WHEEL RETAINER
5-1/2" WILLIAMS BROS BALLOON STYLE WHEELS
3/16" INSIDE DIA FENDER WASHER SOLDER TO AXLE/STRUT
3/16" DIA MUSIC WIRE AXLE/STRUT
DRILL STRUTS TAP SIZE 1/4-20 (#7 DRILL) SEE INSTRUCTIONS
1/4" DIA 6061 T6511 ALUMINUM SPREADER RODS
1-1/4" 6061 T6511 ALUM. REAR STRUT
1/4" - 1" 6061 T6511 ALUM. FRONT STRUT
1/4-20 NYLON STRUT BOLTS
1/4-20 THREAD
30°
3" DIA. SPINNER
NO. 2 STACK IS REMOVED ENTIRELY
LIGHT BLUE SIMULATED WINDSHIELD
CUT "STACKS" AT COWL SEPARATION - FWD STACK REMOVES WITH COWL
1/8" BIRCH PLYWOOD
1/8" BIRCH PLYWOOD
1/4" BIRCH PLY SERVO TRAY
3/16" BALSA DECK
5/16" SHOULDER RADIUS TYPICAL FROM F5 TO F13
1/8" LITE PLY DOUBLER
3/16" BALSA SIDES
NOTE: F3, F4, F6, 1/4" BIRCH
3/8" DIA DOME
WILLIAMS BROS 3" "STANDARD" PILOT
5/16" CORNER RADIUS TYPICAL FROM F5 TO F13
NOTE: F12, F14, F16, & F18 1/8" LITE PLY
5/16 CORNER RADIUS TYPICAL FROM F10 TO THE TAIL POST
NOTE: THIS IS THE SHAPE OF THE VERTICAL TAIL FILLER BLOCK ABOVE THE HORIZONTAL TAIL
NOTE: THIS IS SHAPE OF THE FUSELAGE SIDES BELOW THE HORIZONTAL TAIL
TAPER RUDDER STRUCTURE, AS SHOWN, AFTER GLUEING TO THE RIGHT HAND SKIN THEN GLUE ON LEFT HAND SKIN
VERTICAL AND RUDDER STRUCTURE 3/8" + 1/2" BALSA STRIP
3/32 BALSA SKIN EACH SIDE
SOLID BALSA FILLER BLOCK EACH SIDE OF VERTICAL TAIL
1/4" DIA 2" LONG DOWEL 3 PLACES ON FINAL ASSEMBLY
FILL THIS AREA WITH BALSA BLOCK SHAPE ON FINAL ASSEMBLY
20 OZ TANK SHOWN
LOCATE BATTERY IN THIS AREA - OR AS REQUIRED TO BALANCE
CARVE BALSA COWL ON FINAL ASSEMBLY
3/4" BALSA
3/8" BIRCH PLY COWL RING
1/2" BALSA SHEET CHIN BLOCK
BIRCH PLY OR HARDWOOD SPACER BLOCK TO SUIT ENGINE USED
BIRCH PLY FRONT STRUT MOUNT
REAR MOUNT
CG
3/16" USE
1/4" DIA 6061 T6511 ALUMINUM SPREADER RODS
1-1/4" 6061 T6511 ALUM. REAR STRUT
1/4-20 NYLON STRUT BOLTS
1/4" COWL SCREWS TYPICAL AS NEEDED
DENOTES EDGE OF 1/8 LITE PLY DOUBLER
NOTE: WING CHORD PLANE AT SIDE OF FUSELAGE
3/16" + 3/8" SPRUCE
1/4" + 1-1/8" BALSA SEAL PLATE
1/2" BALSA
1/2" BIRCH PLY WING HOLD DOWN BLOCK
1/8" LITE PLY SLEEVE GUIDES - GLUE SLEEVES IN PLACE AFTER POSITIONING
1/4" SQUARE BALSA STRINGERS
SOLID STEEL #4-40 PUSH RODS IN A NY-ROD SLEEVE
3/16" BALSA TYPICAL ALL COWL AND TURTLE DECK STRUCTURE
1/8" BALSA SKINS
3/16" + 1/2" BALSA STRIP
1/8 BIRCH PLY
1/16" BALSA SHEET
TOP SURFACE OF FLOAT IS PARALLEL TO THRUST CENTER LINE
H.E
SCHNEIDER SPORT 320
DESIGNED & DRAWN BY TOM STROM SR.
SHEET 1 OF 3
PLAN NO. 1087 ③


T1 1"·1-1/2"·5-3/8" BALSA BLOCK
3/8"·1-1/4" BALSA LEADING EDGE
3/8" DIA HARDWOOD DOWEL
SCRAP 3/4" BALSA
T2 1/2"·3/8 BALSA STRIP
W7 W6 W6 W6 W6 W6 W5 W4 W3 W2
1/8" BIRCH PLY DOWEL PLATE
1/2"·1/4" SPRUCE MAIN SPARS
FRONT TIP SPAR TAPERS FROM 1" AT W7 TO 1/4" AT T3
3/32" HARD BALSA SHEAR WEB (VERTICAL GRAIN) 3 BAYS ONLY
3/32" BIRCH PLY SHEAR TIE THIS BAY ONLY
1-5/8" DIA PHENOLIC TUBE
1/8" LITE PLY-TUBE + SPAR SHEAR TIES 3 INBOARD BAYS ONLY
W10 W9 W8
CENTER POINT FOR TIP RADIUS
T3 3/8"·5/8" BALSA STRIP
TIP PLATE MADE FROM 1/8"·4" BALSA SHEET
NOTE: NO WING SHEETING OR CAP STRIPS SHOWN IN THIS VIEW FOR CLARITY OF THE BASIC STRUCTURE
W2 W3 W1
NOTE: USE DIHEDRAL TEMPLATES TO POSITION THESE TWO R.B SETS
3/8" SQUARE PLY OR HARDWOOD SERVO RAILS
1/4" SQUARE BALSA SERVO CUT-OUT FRAME
REAR TIP SPAR 1/4" SQUARE BALSA
1/2"·9/16" BALSA TRAILING EDGE
1/2" SQUARE BALSA HINGE PIN BLOCKS
5/8"·1-3/4" BALSA FILLER BLOCK
T4 3/8"·5/8" BALSA STRIP
5/8"·1-3/4" BALSA TRAILING EDGE EXTENSION NOTE GRAIN DIRECTION
T5 3/8" BALSA SHEET
5/8"·1-3/4" BALSA AILERON
1/4" ALUM. TIE BAR - USE WHEN AFT FLOAT STRUT REMOVED
14-3/8"
4-7/8"
FLOAT STEP
CG
WING HOLD DOWN AND STRUT BOLTS
23-3/4"
11-7/8"
STRUT BOLTS
KEEP FLOAT CENTER LINES PARALLEL TO FUSELAGE CENTER LINE
3/4" TYP.
3/16" DIA BRASS TUBE
HINGE DETAILS SHOWN 2 TIMES SIZE
5/8" TYP.
1-1/2"
.015" BRASS FLAT STOCK
1-5/16"
3/16" DIA BRASS TUBE
AILERON HORN SHOWN 2 TIMES SIZE
FIT .015" BRASS FLAT STOCK INTO END OF FLATTENED TUBE BEFORE FINAL SQUEEZE - THEN SOLDER IN PLACE
SOLDER HORNS TO THE TORQUE RODS WITH STAY BRITE SOLDER. KEEP HORN PERPENDICULAR TO ROD CENTER LINE
7-7/8"
15/16"
7/8"
5/32" DIA MUSIC WIRE
LEFT HAND TORQUE ROD
RIGHT HAND TORQUE ROD
W1 W1 RIB SET SHOWN
1"
UP
OUTBD. INBD
DIHEDRAL TEMPLATE
TAIL WHEEL HINGES ARE SIMILAR TO AILERONS EXCEPT 5/32" DIA. TUBE USED
1/8" DIA MUSIC WIRE
TAIL WHEEL FORK ASSEMBLY
WHEEL GEAR INSTALLATION DETAILS DO NOT SCALE FOR DIMENSIONS
FLOAT STRUT INSTALLATION DETAILS DO NOT SCALE FOR DIMENSIONS
H.E
SCHNEIDER SPORT 320
DESIGNED & DRAWN BY TOM STROM SR
0 1 2 3 4 5 6
SHEET 2 OF 3
PLAN NO. 1087 ③


TAPER ELEVATORS AS SHOWN AFTER GLUEING 3/32" SKIN TO ONE SIDE
30°
BEVEL ELEVATORS AFTER DRILLING HINGE PIN HOLES
3/32" BALSA STAB SKINS TOP + BOTTOM GRAIN RUNS SPANWISE
9/16"
3/32" LITE PLYSKIN INSERTS TOP AND BOTTOM
H2
DRILL FOR 1/4" DIA DOWELS 3 PLACES
3/8"+3" BALSA SHEET
H1
3/8"+1/2" BALSA USED FOR "RIBS"
3/8"+5/8" BALSA FRAME
SPAR DOUBLERS ARE 1/8"+5/8" BIRCH PLY TOP + BOTTOM AND WITH A 1/8"+5/8" BALSA CENTER
5/8"
BALSA
PLY
3/8"
TWICE SIZE
W-10 1/8" BALSA 4 REQ'D
W-9 1/8" BALSA 4 REQ'D
W-8 1/8" BALSA 4 REQ'D
W-7 1/8" BALSA 2 REQ'D
W-6 1/8" BALSA 10 REQ'D
W-5 1/8" LITE PLY 2 REQ'D
NOTCH TRAILING EDGE SHEETING AROUND T5
LARGE ROBART HINGE PINS TYPICAL ALL CONTROL SURFACES
T5
T4
T3
T2
T1
3/32"+2" TRAILING EDGE SHEETNG
3/32"+3/8" BALSA CAP STRIPS
NOTE: SEE LEFT HAND WING LAYOUT FOR STRUCTURE DETAILS
3/32"+4" LEADING EDGE SHEETING
OUTLET HOLE FOR SERVO WIRING
1/8" LITE PLYSH
LEFT HAND ELEVATOR
RUDDER
RIGHT HAND ELEVATOR
THROTTLE
SERVO TRAY
AS SEEN LOOKING INTO THE WING SADDLE
VERTICAL TAIL FILLER BLOCKS
H.E
SCHNEIDER SPORT 320
DESIGNED & DRAWN BY TOM STROM SR.
SHEET 3 OF 3
0 1 2 3 4 5 6
PLAN NO. 1087