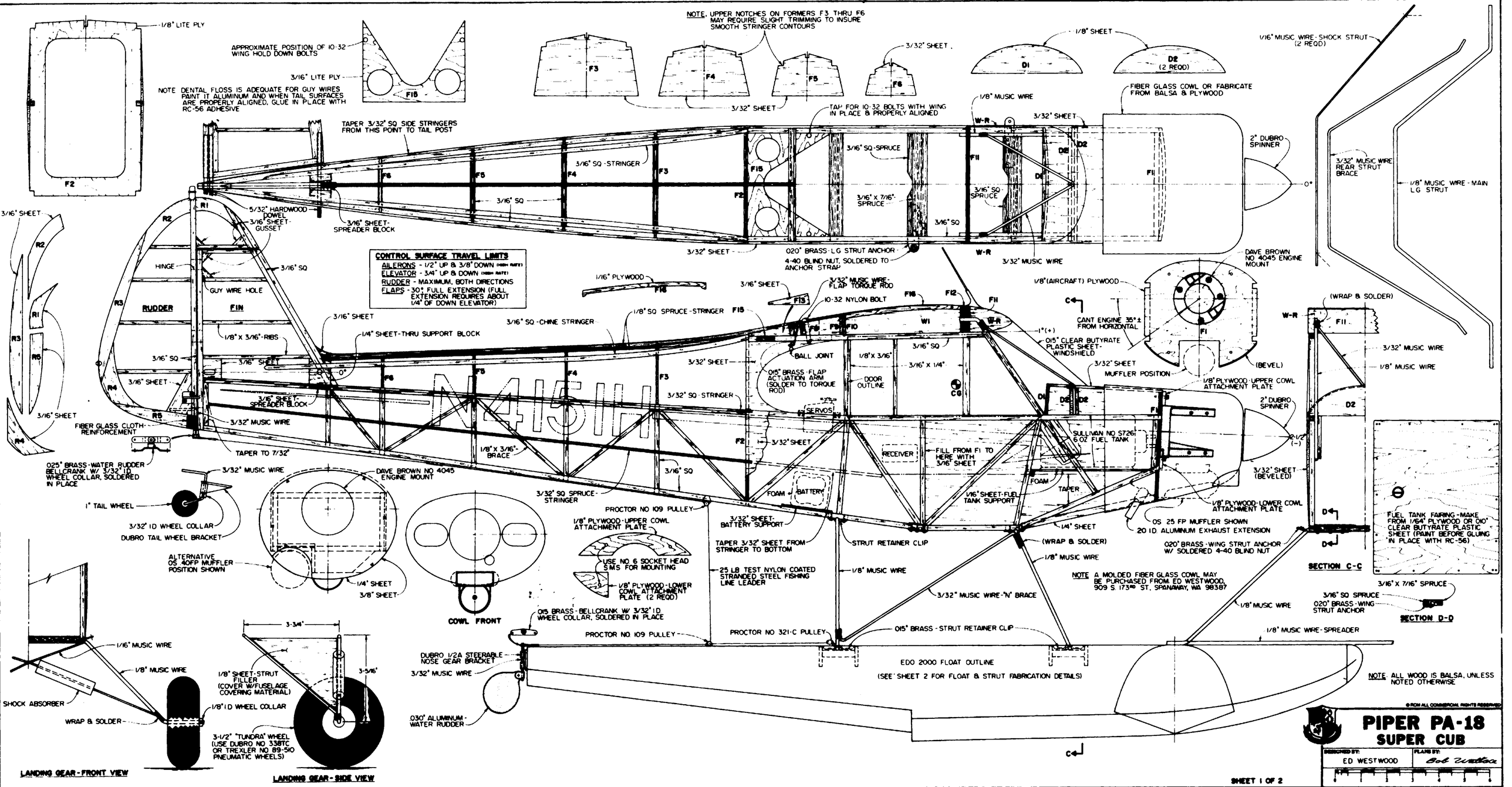
NOTE: UPPER NOTCHES ON FORMERS F3 THRU F6 MAY REQUIRE SLIGHT TRIMMING TO INSURE SMOOTH STRINGER CONTOURS
1/8" LITE PLY
APPROXIMATE POSITION OF 10-32 WING HOLD DOWN BOLTS
3/16" LITE PLY
NOTE DENTAL FLOSS IS ADEQUATE FOR GUY WIRES PAINT IT ALUMINUM AND WHEN TAIL SURFACES ARE PROPERLY ALIGNED, GLUE IN PLACE WITH RC-56 ADHESIVE
F2
F15
F3
F4
F5
F6
3/32" SHEET
1/8" SHEET
D1
D2 (2 REQD)
1/16" MUSIC WIRE-SHOCK STRUT (2 REQD)
TAPER 3/32" SQ SIDE STRINGERS FROM THIS POINT TO TAIL POST
TAP FOR 10-32 BOLTS WITH WING IN PLACE & PROPERLY ALIGNED
1/8" MUSIC WIRE
FIBER GLASS COWL OR FABRICATE FROM BALSA & PLYWOOD
2" DUBRO SPINNER
3/32" MUSIC WIRE REAR STRUT BRACE
1/8" MUSIC WIRE-MAIN LG STRUT
3/16" SQ-SPRUCE
3/16" SQ-STRINGER
3/16" SQ
3/16" X 7/16" SPRUCE
3/16" SQ SPRUCE
020" BRASS-LG STRUT ANCHOR
4-40 BLIND NUT, SOLDERED TO ANCHOR STRAP
W-R
3/32" MUSIC WIRE
DAVE BROWN NO 4045 ENGINE MOUNT
1/8" (AIRCRAFT) PLYWOOD
CANT ENGINE 35°± FROM HORIZONTAL
(BEVEL)
(WRAP & SOLDER)
3/16" SHEET
R1
R2
R3
R4
R5
R6
5/32" HARDWOOD DOWEL
3/16" SHEET-GUSSET
3/16" SHEET-SPREADER BLOCK
HINGE
GUY WIRE HOLE
RUDDER
FIN
CONTROL SURFACE TRAVEL LIMITS
AILERONS - 1/2" UP & 3/8" DOWN (HIGH RATE)
ELEVATOR - 3/4" UP & DOWN (HIGH RATE)
RUDDER - MAXIMUM, BOTH DIRECTIONS
FLAPS - 30° FULL EXTENSION (FULL EXTENSION REQUIRES ABOUT 1/4" OF DOWN ELEVATOR)
1/16" PLYWOOD
F16
3/32" MUSIC WIRE-FLAP TORQUE ROD
10-32 NYLON BOLT
F12
F11
W1
W-R
1°(+)
.015" CLEAR BUTYRATE PLASTIC SHEET-WINDSHIELD
3/16" SQ-CHINE STRINGER
1/8" SQ SPRUCE-STRINGER
1/4" SHEET-THRU SUPPORT BLOCK
1/8" X 3/16"-RIBS
3/16" SQ
3/16" SHEET
3/32" SHEET
BALL JOINT
.015" BRASS-FLAP ACTUATION ARM (SOLDER TO TORQUE ROD)
1/8" X 3/16"
3/16" X 1/4"
DOOR OUTLINE
SERVOS
3/32" SQ-STRINGER
3/32" SHEET
MUFFLER POSITION
1/8" PLYWOOD-UPPER COWL ATTACHMENT PLATE
2" DUBRO SPINNER
2-1/2" (-)
SULLIVAN NO S726 6 OZ FUEL TANK
FILL FROM F1 TO HERE WITH 3/16" SHEET
RECEIVER
FOAM
BATTERY
1/16" SHEET-FUEL TANK SUPPORT
TAPER
1/8" PLYWOOD-LOWER COWL ATTACHMENT PLATE
1/4" SHEET
OS 25 FP MUFFLER SHOWN
20 I.D. ALUMINUM EXHAUST EXTENSION
3/32" SHEET (BEVELED)
FUEL TANK FAIRING-MAKE FROM 1/64" PLYWOOD OR .010" CLEAR BUTYRATE PLASTIC SHEET (PAINT BEFORE GLUING IN PLACE WITH RC-56)
SECTION C-C
SECTION D-D
3/16" X 7/16" SPRUCE
3/16" SQ SPRUCE
020" BRASS-WING STRUT ANCHOR
1/8" MUSIC WIRE-SPREADER
.025" BRASS-WATER RUDDER BELLCRANK W/ 3/32" I.D. WHEEL COLLAR, SOLDERED IN PLACE
3/32" MUSIC WIRE
1" TAIL WHEEL
3/32" I.D. WHEEL COLLAR
DUBRO TAIL WHEEL BRACKET
ALTERNATIVE OS 40FP MUFFLER POSITION SHOWN
1/4" SHEET
3/8" SHEET
PROCTOR NO 109 PULLEY
1/8" PLYWOOD-UPPER COWL ATTACHMENT PLATE
USE NO 6 SOCKET HEAD SMS FOR MOUNTING
1/8" PLYWOOD-LOWER COWL ATTACHMENT PLATE (2 REQD)
COWL FRONT
3/32" SHEET-BATTERY SUPPORT
TAPER 3/32" SHEET FROM STRINGER TO BOTTOM
25 LB TEST NYLON COATED STRANDED STEEL FISHING LINE LEADER
STRUT RETAINER CLIP
(WRAP & SOLDER)
1/8" MUSIC WIRE
3/32" MUSIC WIRE-'N' BRACE
NOTE A MOLDED FIBER GLASS COWL MAY BE PURCHASED FROM ED WESTWOOD, 909 S. 173RD ST, SPANAWAY, WA 98387
.020" BRASS-WING STRUT ANCHOR W/ SOLDERED 4-40 BLIND NUT
.015" BRASS-BELLCRANK W/ 3/32" I.D. WHEEL COLLAR, SOLDERED IN PLACE
PROCTOR NO 109 PULLEY
PROCTOR NO 321-C PULLEY
.015" BRASS-STRUT RETAINER CLIP
DUBRO 1/2A STEERABLE NOSE GEAR BRACKET
3/32" MUSIC WIRE
.030" ALUMINUM-WATER RUDDER
EDO 2000 FLOAT OUTLINE
(SEE SHEET 2 FOR FLOAT & STRUT FABRICATION DETAILS)
NOTE ALL WOOD IS BALSA, UNLESS NOTED OTHERWISE
1/16" MUSIC WIRE
1/8" MUSIC WIRE
SHOCK ABSORBER
WRAP & SOLDER
3-3/4"
3-5/16"
1/8" SHEET-STRUT FILLER (COVER W/FUSELAGE COVERING MATERIAL)
1/8" I.D. WHEEL COLLAR
3-1/2" "TUNDRA" WHEEL (USE DUBRO NO 338TC OR TREXLER NO 89-510 PNEUMATIC WHEELS)
LANDING GEAR-FRONT VIEW
LANDING GEAR-SIDE VIEW
N415H
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PIPER PA-18
SUPER CUB
DESIGNED BY: ED WESTWOOD
PLANS BY: Bob Watkins
SHEET 1 OF 2