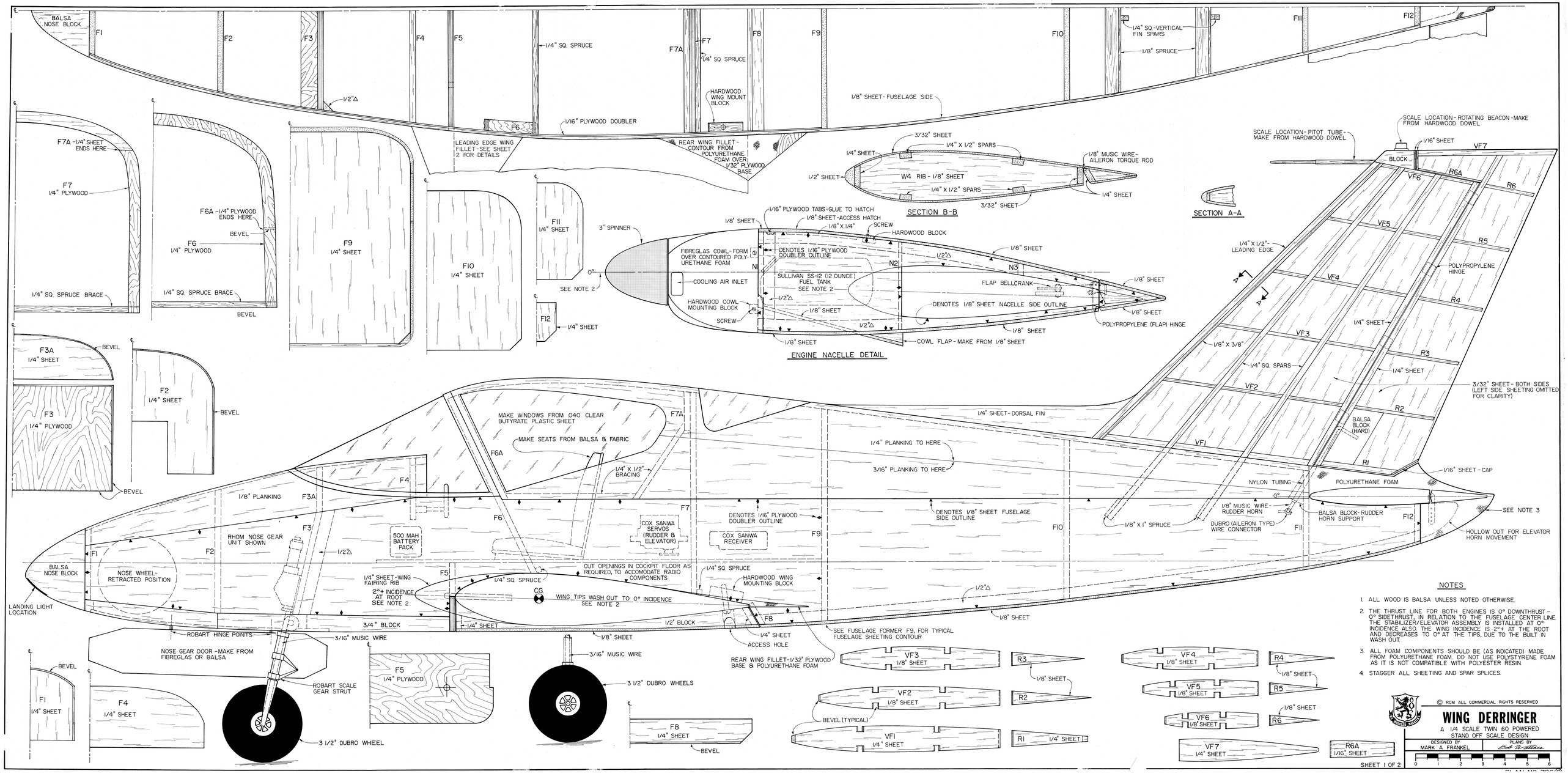
BALSA NOSE BLOCK
F1
F2
F3
F4
F5
F6
F7
F7A
F8
F9
F10
F11
F12
1/4" SQ. SPRUCE
1/2"Δ
1/16" PLYWOOD DOUBLER
HARDWOOD WING MOUNT BLOCK
1/8" SHEET-FUSELAGE SIDE
1/4" SQ.-VERTICAL FIN SPARS
1/8" SPRUCE
LEADING EDGE WING FILLET-SEE SHEET 2 FOR DETAILS
REAR WING FILLET-CONTOUR FROM POLYURETHANE FOAM OVER 1/32" PLYWOOD BASE
F7A-1/4" SHEET ENDS HERE
F7 1/4" PLYWOOD
1/4" SQ. SPRUCE BRACE
F6A-1/4" PLYWOOD ENDS HERE
BEVEL
F6 1/4" PLYWOOD
1/4" SQ. SPRUCE BRACE
F9 1/4" SHEET
F10 1/4" SHEET
F11 1/4" SHEET
SEE NOTE 2
F12 1/4" SHEET
3/32" SHEET
1/4" X 1/2" SPARS
1/4" SHEET
1/2" SHEET
W4 RIB-1/8" SHEET
1/4" X 1/2" SPARS
3/32" SHEET
1/8" MUSIC WIRE-AILERON TORQUE ROD
1/4" SHEET
SECTION B-B
SECTION A-A
3" SPINNER
1/16" PLYWOOD TABS-GLUE TO HATCH
1/8" SHEET
1/8" SHEET-ACCESS HATCH
1/8" X 1/4"
SCREW
HARDWOOD BLOCK
FIBREGLAS COWL-FORM OVER CONTOURED POLYURETHANE FOAM
DENOTES 1/16" PLYWOOD DOUBLER OUTLINE
N1
N2
N3
1/2"Δ
1/8" SHEET
COOLING AIR INLET
SULLIVAN SS-12 (12 OUNCE) FUEL TANK SEE NOTE 2
FLAP BELLCRANK
1/8" SHEET
HARDWOOD COWL MOUNTING BLOCK
DENOTES 1/8" SHEET NACELLE SIDE OUTLINE
SCREW
1/8" SHEET
POLYPROPYLENE (FLAP) HINGE
1/8" SHEET
COWL FLAP-MAKE FROM 1/8" SHEET
ENGINE NACELLE DETAIL
SCALE LOCATION-ROTATING BEACON-MAKE FROM HARDWOOD DOWEL
SCALE LOCATION-PITOT TUBE-MAKE FROM HARDWOOD DOWEL
1/16" SHEET
BLOCK
VF7
VF6
R6A
R6
VF5
R5
1/4" X 1/2"-LEADING EDGE
POLYPROPYLENE HINGE
VF4
R4
1/4" SHEET
VF3
R3
1/8" X 3/8"
1/4" SQ. SPARS
1/4" SHEET
3/32" SHEET-BOTH SIDES (LEFT SIDE SHEETING OMITTED FOR CLARITY)
VF2
R2
BALSA BLOCK (HARD)
VF1
R1
1/16" SHEET-CAP
F3A 1/4" SHEET
BEVEL
F3 1/4" PLYWOOD
F2 1/4" SHEET
BEVEL
MAKE WINDOWS FROM .040 CLEAR BUTYRATE PLASTIC SHEET
MAKE SEATS FROM BALSA & FABRIC
1/4" X 1/2" BRACING
1/4" SHEET-DORSAL FIN
1/4" PLANKING TO HERE
3/16" PLANKING TO HERE
1/8" PLANKING
RHOM NOSE GEAR UNIT SHOWN
500 MAH BATTERY PACK
COX SANWA SERVOS (RUDDER & ELEVATOR)
COX SANWA RECEIVER
DENOTES 1/16" PLYWOOD DOUBLER OUTLINE
DENOTES 1/8" SHEET FUSELAGE SIDE OUTLINE
NYLON TUBING
POLYURETHANE FOAM
1/8" MUSIC WIRE-RUDDER HORN
DUBRO (AILERON TYPE) WIRE CONNECTOR
1/8" X 1" SPRUCE
BALSA BLOCK-RUDDER HORN SUPPORT
SEE NOTE 3
HOLLOW OUT FOR ELEVATOR HORN MOVEMENT
BALSA NOSE BLOCK
NOSE WHEEL-RETRACTED POSITION
LANDING LIGHT LOCATION
1/4" SHEET-WING FAIRING RIB
2°+ INCIDENCE AT ROOT SEE NOTE 2
CUT OPENINGS IN COCKPIT FLOOR AS REQUIRED, TO ACCOMODATE RADIO COMPONENTS
1/4" SQ. SPRUCE
CG
WING TIPS WASH OUT TO 0° INCIDENCE SEE NOTE 2
HARDWOOD WING MOUNTING BLOCK
3/4" BLOCK
1/4" SHEET
1/2" BLOCK
1/8" SHEET
ROBART HINGE POINTS
3/16" MUSIC WIRE
ACCESS HOLE
SEE FUSELAGE FORMER F9, FOR TYPICAL FUSELAGE SHEETING CONTOUR
REAR WING FILLET-1/32" PLYWOOD BASE & POLYURETHANE FOAM
NOSE GEAR DOOR-MAKE FROM FIBREGLAS OR BALSA
ROBART SCALE GEAR STRUT
3 1/2" DUBRO WHEEL
3/16" MUSIC WIRE
3 1/2" DUBRO WHEELS
F1 1/4" SHEET
F4 1/4" SHEET
F5 1/4" PLYWOOD
F8 1/4" SHEET
VF3 1/8" SHEET
VF2 1/8" SHEET
BEVEL (TYPICAL)
VF1 1/4" SHEET
R3
R2
R1 1/4" SHEET
VF4 1/8" SHEET
VF5 1/8" SHEET
VF6 1/8" SHEET
VF7 1/4" SHEET
R4
R5
R6
R6A 1/16" SHEET
NOTES
1. ALL WOOD IS BALSA UNLESS NOTED OTHERWISE.
2. THE THRUST LINE FOR BOTH ENGINES IS 0° DOWNTHRUST-0° SIDETHRUST, IN RELATION TO THE FUSELAGE CENTER LINE. THE STABILIZER/ELEVATOR ASSEMBLY IS INSTALLED AT 0° INCIDENCE ALSO. THE WING INCIDENCE IS 2°+ AT THE ROOT AND DECREASES TO 0° AT THE TIPS, DUE TO THE BUILT IN WASH OUT.
3. ALL FOAM COMPONENTS SHOULD BE (AS INDICATED) MADE FROM POLYURETHANE FOAM. DO NOT USE POLYSTYRENE FOAM AS IT IS NOT COMPATIBLE WITH POLYESTER RESIN.
4. STAGGER ALL SHEETING AND SPAR SPLICES.
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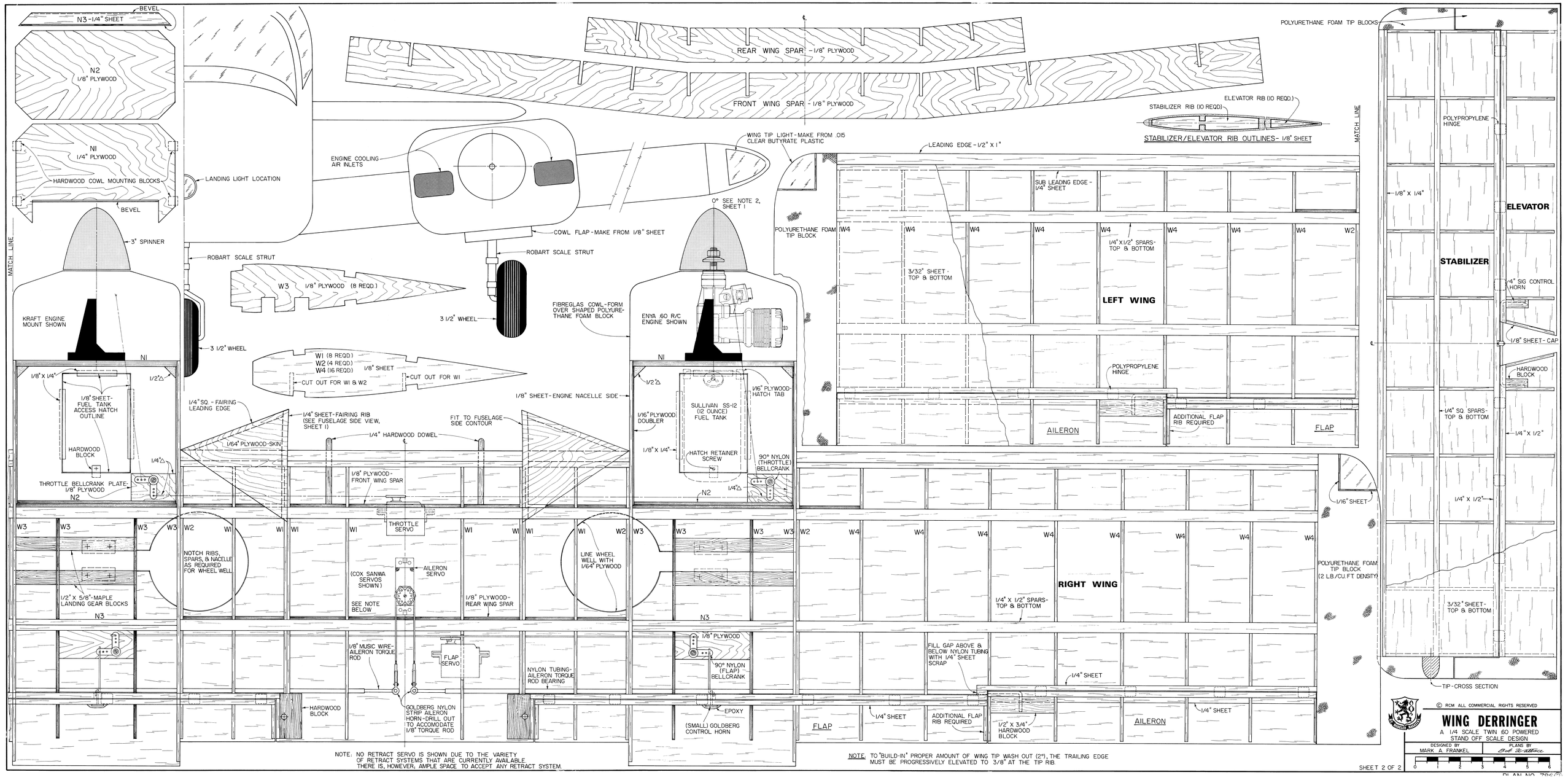
WING DERRINGER
A 1/4 SCALE TWIN 60 POWERED STAND OFF SCALE DESIGN
DESIGNED BY MARK A. FRANKEL
PLANS BY
0 1 2 3 4 5 6
SHEET 1 OF 2




NOTE: NO RETRACT SERVO IS SHOWN DUE TO THE VARIETY OF RETRACT SYSTEMS THAT ARE CURRENTLY AVAILABLE. THERE IS, HOWEVER, AMPLE SPACE TO ACCEPT ANY RETRACT SYSTEM.

NOTE: TO "BUILD-IN" PROPER AMOUNT OF WING TIP WASH OUT (2°), THE TRAILING EDGE MUST BE PROGRESSIVELY ELEVATED TO 3/8" AT THE TIP RIB.