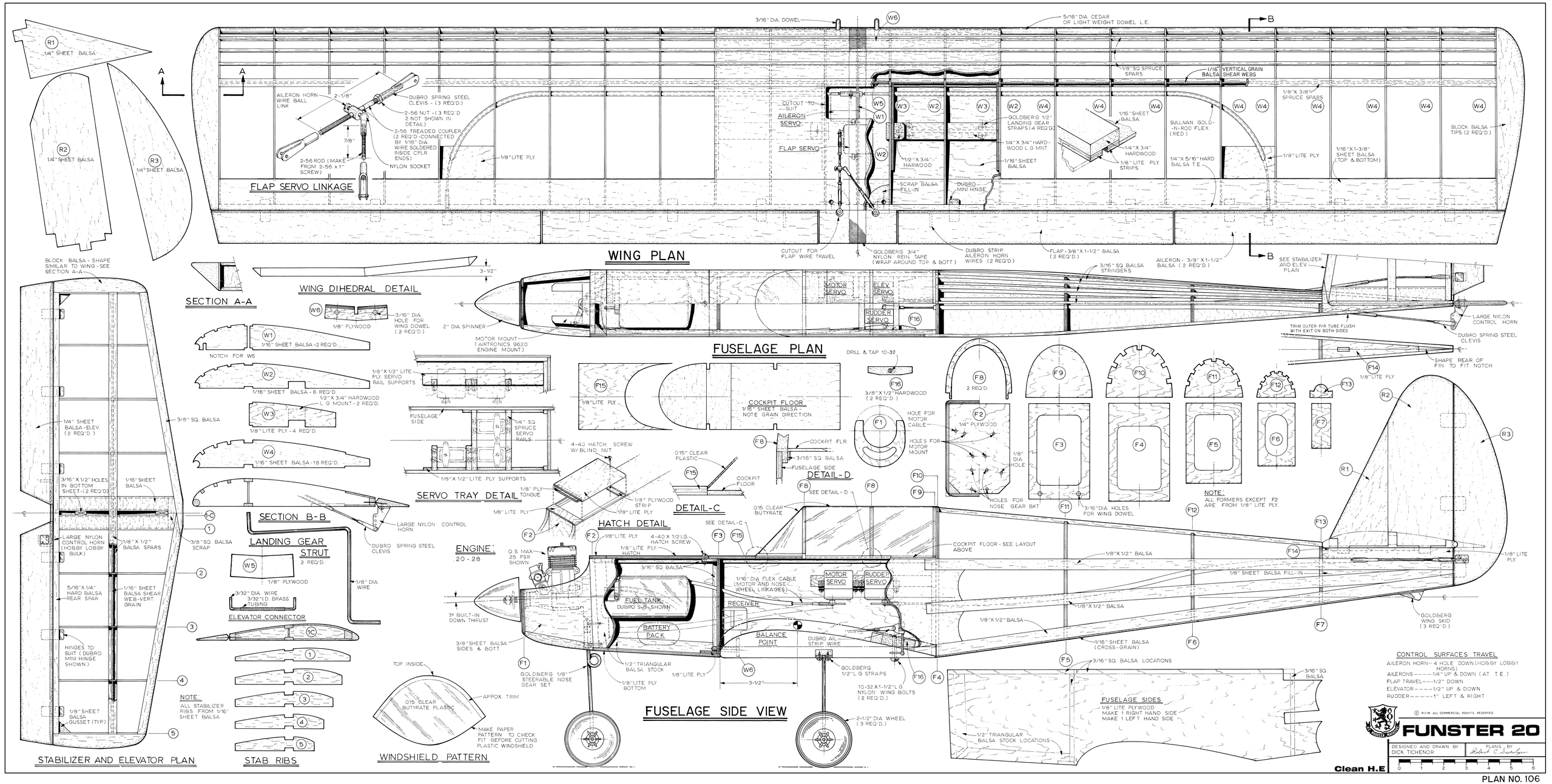
WING PLAN
FLAP SERVO LINKAGE
AILERON HORN WIRE BALL LINK
2-1/8"
DUBRO SPRING STEEL CLEVIS - (3 REQ'D.)
2-56 NUT - (3 REQ'D 2 NOT SHOWN IN DETAIL)
2-56 TREADED COUPLER (2 REQ'D.-CONNECTED BY 1/16" DIA. WIRE SOLDERED INSIDE CPLR. ENDS)
7/8"
2-56 ROD (MAKE FROM 2-56 x 1" SCREW)
NYLON SOCKET
1/8" LITE PLY
CUTOUT TO SUIT AILERON SERVO
FLAP SERVO
1/2" X 3/4" HARWOOD
SCRAP BALSA FILL-IN
DUBRO MINI HINGE
GOLDBERG 1/2" LANDING GEAR STRAPS (4 REQ'D.)
1/4" X 3/4" HARD-WOOD L.G MNT.
1/16" SHEET BALSA
1/16" SHEET BALSA
1/4" X 3/4" HARDWOOD
1/8" LITE PLY STRIPS
1/8" SQ SPRUCE SPARS
1/16" BALSA VERTICAL GRAIN SHEAR WEBS
SULLIVAN GOLD-N-ROD FLEX (RED)
1/4" X 5/16" HARD BALSA T.E.
1/8" X 3/8" SPRUCE SPARS
1/8" LITE PLY
1/16" X 1-3/8" SHEET BALSA (TOP & BOTTOM)
BLOCK BALSA TIPS (2 REQ'D.)
3/16" DIA. DOWEL
5/16" DIA. CEDAR OR LIGHT WEIGHT DOWEL L.E.
CUTOUT FOR FLAP WIRE TRAVEL
GOLDBERG 3/4" NYLON REIN. TAPE (WRAP AROUND TOP & BOTT.)
DUBRO STRIP AILERON HORN WIRES (2 REQ'D.)
FLAP - 3/8" X 1-1/2" BALSA (2 REQ'D.)
AILERON - 3/8" X 1-1/2" BALSA (2 REQ'D.)
R1 1/4" SHEET BALSA
R2 1/4" SHEET BALSA
R3 1/4" SHEET BALSA
BLOCK BALSA - SHAPE SIMILAR TO WING - SEE SECTION A-A
SECTION A-A
WING DIHEDRAL DETAIL
3-1/2"
W6
1/8" PLYWOOD
3/16" DIA HOLE FOR WING DOWEL (2 REQ'D.)
W1
1/16" SHEET BALSA - 2 REQ'D.
NOTCH FOR W6
W2
1/16" SHEET BALSA - 6 REQ'D.
1/2" X 3/4" HARDWOOD L.G MOUNT - 2 REQ'D.
W3
1/8" LITE PLY - 4 REQ'D.
W4
1/16" SHEET BALSA - 18 REQ'D.
3/8" SQ. BALSA
1/4" SHEET BALSA - ELEV. (2 REQ'D.)
3/16" X 1/2" HOLES IN BOTTOM SHEET - (2 REQ'D)
1/16" SHEET BALSA
LARGE NYLON CONTROL HORN (HOBBY LOBBY BULK)
1/8" X 1/2" BALSA SPARS
3/8" SQ. BALSA SCRAP
5/16" X 1/4" HARD BALSA REAR SPAR
1/16" SHEET BALSA SHEAR WEB - VERT GRAIN
HINGES TO SUIT (DUBRO MINI HINGE SHOWN)
1/8" SHEET BALSA GUSSET (TYP.)
NOTE: ALL STABILIZER RIBS FROM 1/16" SHEET BALSA
STABILIZER AND ELEVATOR PLAN
SECTION B-B
LARGE NYLON CONTROL HORN
DUBRO SPRING STEEL CLEVIS
LANDING GEAR STRUT
W5
2 REQ'D.
1/8" PLYWOOD
3/32" DIA. WIRE
3/32" I.D. BRASS TUBING
ELEVATOR CONNECTOR
1/8" DIA. WIRE
STAB RIBS
2" DIA SPINNER
MOTOR MOUNT (AIRTRONICS 9620 ENGINE MOUNT)
1/8" X 1/2" LITE PLY SERVO RAIL SUPPORTS
FUSELAGE SIDE
1/4" SQ. SPRUCE SERVO RAILS
1/8" X 1/2" LITE PLY SUPPORTS
SERVO TRAY DETAIL
FUSELAGE PLAN
MOTOR SERVO
ELEV. SERVO
RUDDER SERVO
F16
3/16" SQ. BALSA STRINGERS
SEE STABILIZER AND ELEV. PLAN
LARGE NYLON CONTROL HORN
DUBRO SPRING STEEL CLEVIS
TRIM OUTER P/R TUBE FLUSH WITH EXIT ON BOTH SIDES
SHAPE REAR OF FIN TO FIT NOTCH
F14
1/8" LITE PLY
F15
1/8" LITE PLY
COCKPIT FLOOR
1/16" SHEET BALSA - NOTE GRAIN DIRECTION
DRILL & TAP 10-32
3/8" X 1/2" HARDWOOD (2 REQ'D.)
F1
HOLE FOR MOTOR CABLE
HOLES FOR MOTOR MOUNT
F8
COCKPIT FLR
3/16" SQ. BALSA
FUSELAGE SIDE
DETAIL-D
F8
2 REQ'D.
F2
1/4" PLYWOOD
1/8" DIA HOLE
HOLES FOR NOSE GEAR BKT
F3
F4
F5
F6
F7
F9
F10
F11
F12
F13
3/16" DIA. HOLES FOR WING DOWEL
NOTE: ALL FORMERS EXCEPT F2 ARE FROM 1/8" LITE PLY.
R1
R2
R3
4-40 HATCH SCREW W/ BLIND NUT
1/8" PLY TONGUE
1/8" PLYWOOD STRIP
1/8" LITE PLY
HATCH DETAIL
.015" CLEAR PLASTIC
COCKPIT FLOOR
DETAIL-C
SEE DETAIL - D
.015 CLEAR BUTYRATE
SEE DETAIL-C
ENGINE: 20-28
O.S. MAX 25 FSR SHOWN
4-40 X 1/2 LG. HATCH SCREW
3/16" SQ. BALSA
FUEL TANK DUBRO S-8 SHOWN
BATTERY PACK
3° BUILT-IN DOWN THRUST
3/8" SHEET BALSA SIDES & BOTT
1/16" DIA. FLEX CABLE (MOTOR AND NOSE WHEEL LINKAGES)
RECEIVER
BALANCE POINT
DUBRO AIL. STRIP WIRE
COCKPIT FLOOR - SEE LAYOUT ABOVE
1/8" X 1/2" BALSA
1/8" SHEET BALSA FILL-IN
1/16" SHEET BALSA (CROSS-GRAIN)
GOLDBERG WING SKID (3 REQ'D.)
1/2" TRIANGULAR BALSA STOCK
1/8" LITE PLY BOTTOM
GOLDBERG 1/8" STEERABLE NOSE GEAR SET
GOLDBERG 1/2" L.G STRAPS
10-32 X 1-1/2" L.G NYLON WING BOLTS (2 REQ'D.)
2-1/2" DIA. WHEEL (3 REQ'D.)
FUSELAGE SIDE VIEW
TOP INSIDE
APPROX. TRIM
.015 CLEAR BUTYRATE PLASTIC
MAKE PAPER PATTERN TO CHECK FIT BEFORE CUTTING PLASTIC WINDSHIELD
WINDSHIELD PATTERN
3/16" SQ. BALSA LOCATIONS
FUSELAGE SIDES
1/8" LITE PLYWOOD
MAKE 1 RIGHT HAND SIDE
MAKE 1 LEFT HAND SIDE
1/2" TRIANGULAR BALSA STOCK LOCATIONS
CONTROL SURFACES TRAVEL
AILERON HORN - 4 HOLE DOWN (HOBBY LOBBY HORNS)
AILERONS - - - - 1/4" UP & DOWN (AT T.E.)
FLAP TRAVEL - - - 1/2" DOWN
ELEVATOR - - - - 1/2" UP & DOWN
RUDDER - - - - - 1" LEFT & RIGHT
© R.C.M. ALL COMMERCIAL RIGHTS RESERVED
FUNSTER 20
DESIGNED AND DRAWN BY DICK TICHENOR
PLANS BY
Clean H.E
0 1 2 3 4 5 6
PLAN NO. 106