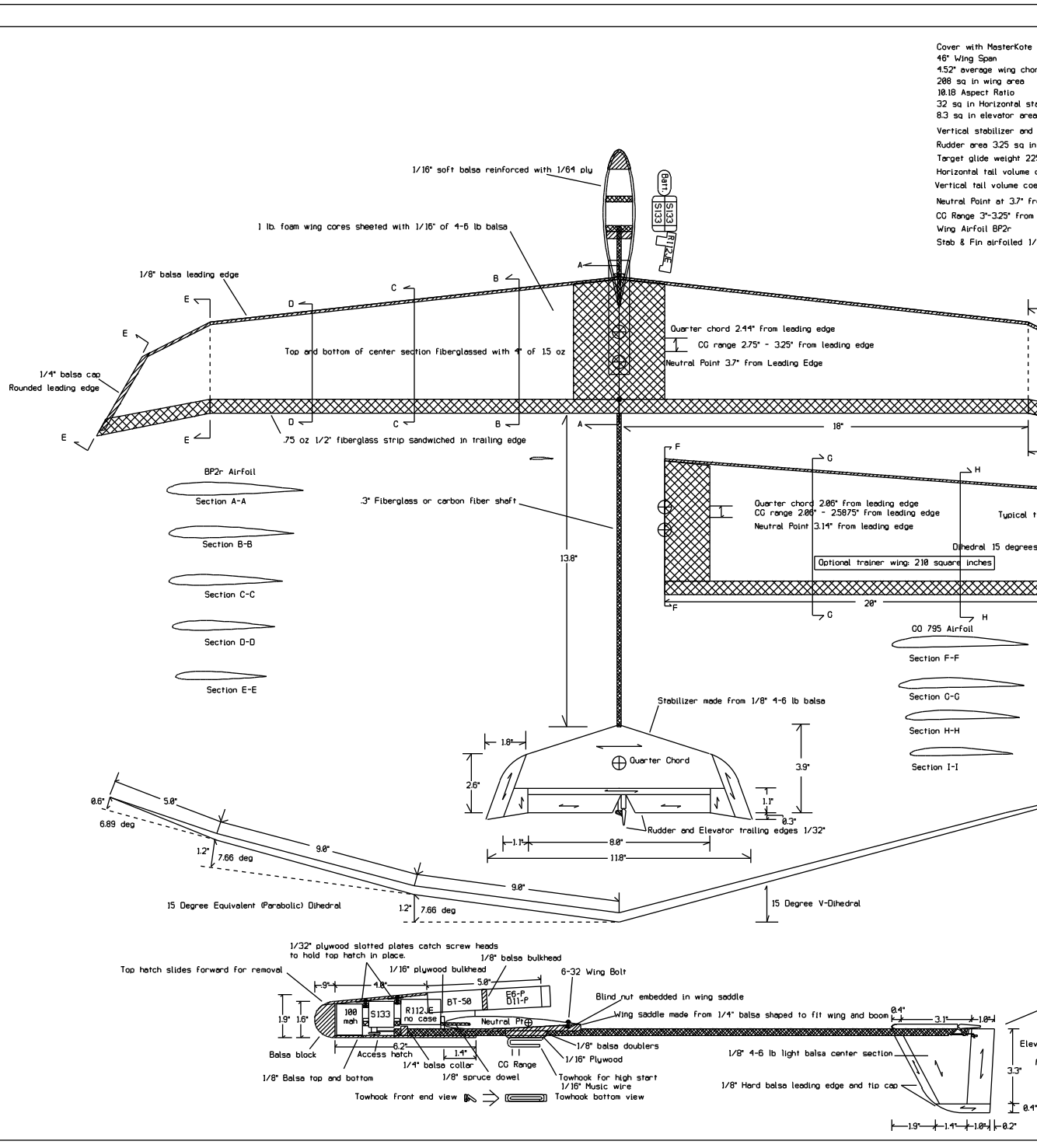
Cover with MasterKote
46" Wing Span
4.52" average wing chor
208 sq in wing area
10.18 Aspect Ratio
32 sq in Horizontal sta
8.3 sq in elevator area
Vertical stabilizer and
Rudder area 3.25 sq in
Target glide weight 22
Horizontal tail volume c
Vertical tail volume coe
Neutral Point at 3.7" fr
CG Range 3"-3.25" from
Wing Airfoil BP2r
Stab & Fin airfoiled 1/
1/16" soft balsa reinforced with 1/64 ply
1 lb. foam wing cores sheeted with 1/16" of 4-6 lb balsa
1/8" balsa leading edge
1/4" balsa cap
Rounded leading edge
Top and bottom of center section fiberglassed with 4" of 1.5 oz
.75 oz 1/2" fiberglass strip sandwiched in trailing edge
Quarter chord 2.44" from leading edge
CG range 2.75" - 3.25" from leading edge
Neutral Point 3.7" from Leading Edge
18"
BP2r Airfoil
Section A-A
Section B-B
Section C-C
Section D-D
Section E-E
.3" Fiberglass or carbon fiber shaft
13.8"
Quarter chord 2.06" from leading edge
CG range 2.06" - 2.5875" from leading edge
Neutral Point 3.14" from leading edge
Optional trainer wing: 210 square inches
20"
CG 795 Airfoil
Section F-F
Section G-G
Section H-H
Section I-I
Stabilizer made from 1/8" 4-6 lb balsa
Quarter Chord
Rudder and Elevator trailing edges 1/32"
0.6"
5.0"
6.89 deg
1.2"
7.66 deg
9.0"
15 Degree Equivalent (Parabolic) Dihedral
15 Degree V-Dihedral
1/32" plywood slotted plates catch screw heads
to hold top hatch in place.
Top hatch slides forward for removal
1/16" plywood bulkhead
1/8" balsa bulkhead
6-32 Wing Bolt
Blind nut embedded in wing saddle
Wing saddle made from 1/4" balsa shaped to fit wing and boom
BT-50
E6-P
D11-P
100 mah
S133
R112JE
no case
Neutral Pt
1/8" balsa doublers
1/16" Plywood
Balsa block
Access hatch
1/4" balsa collar
CG Range
1/8" spruce dowel
Towhook for high start
1/16" Music wire
1/8" Balsa top and bottom
Towhook front end view
Towhook bottom view
1/8" 4-6 lb light balsa center section
1/8" Hard balsa leading edge and tip cap