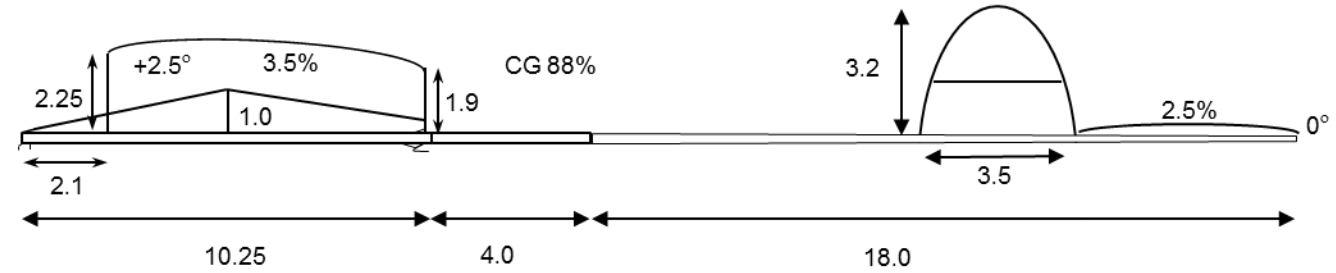
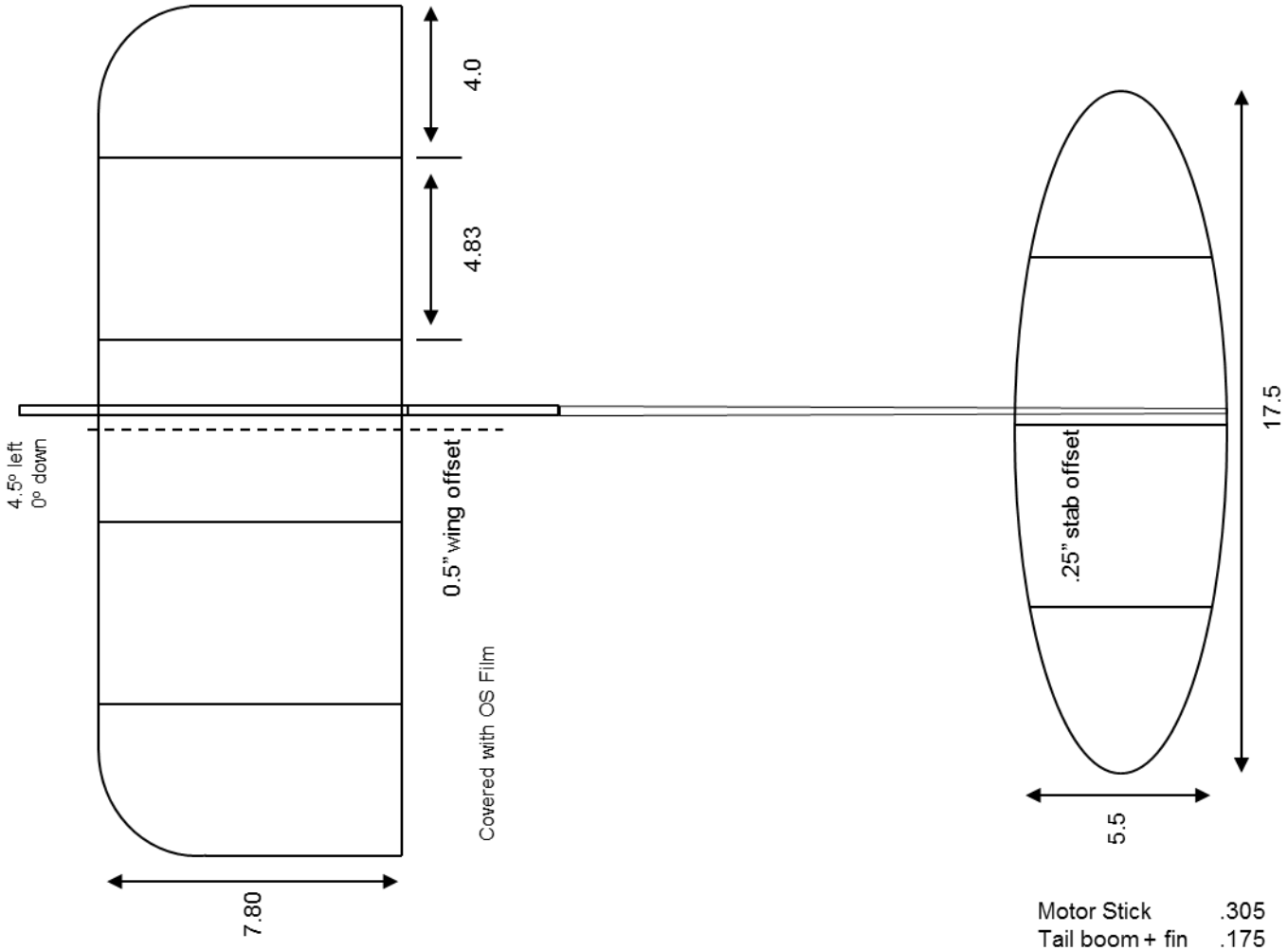
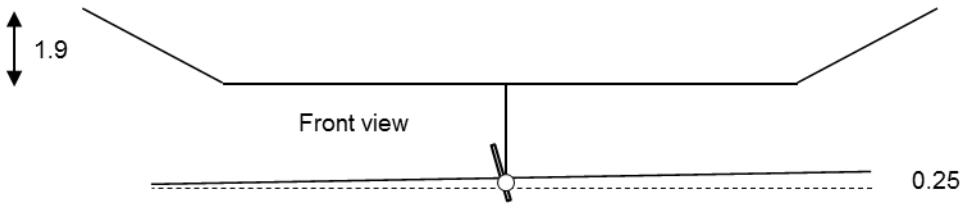




Motor Stick	.305
Tail boom + fin	.175
Wing	.335
Stab	.140
Prop	.280
Spacer	.110
Ballast	.065
Total	1.41 g



F1D 3

by Yuan Kang Lee

1st place, 2015 Kent

Best Cat II time 22:37

5/99 .0338 g/in 1110 turns

F1D 3	**Yuan Kang Lee**		
component	description	lb/ft3	mg
Wing			**335**
spars (2)	.040 x .052 (2x .003 boron)	4.0	70
tips (2)	.039 x .043	4.0	57
middle ribs (2)	.032 x .050 C	4.5	24
comp ribs (2)	.032 x .055 + .032 x .025	4.5	41
tubes (2)	.064 ID polyimide thin wall		5
covering	OS Film		
Motor Stick			**305**
blank	.015 (2 x .003 boron, 4 and 8 o'clock) .240 id	4.0	132
bracing post	.060 x .060 -> .040 x .040	6.0	5
wing posts (2)	.058 x .045 (4 x .003 boron)	6.0	20
bracing line	Kevlar thread, 6 lb tested		10
bearing	Harlan		25
tail hook	.013 music wire		15
front web	.025 x .75 C	5.0	7
rear web	.025 x .60 C	5.0	6
extension	.010 (3 x .003 boron)	4.0	47
Stab			**140**
spars	.024 x .041 (2 x .003 boron)	4.9	48
ribs (3)	.024 x .040	4.8	19
covering	OS Film		
Tail boom			**155**
blank	0.009 (2 x .003 boron full length, 4 x .003 boron mid boom)	3.7	96
stab posts (2)	.023 x .050	6.1	4
Rudder			**20**
outline and rib	.025 x .030	5.0	14
covering	OS Film		
Prop	18.5 D		**280**
outline	.024 x .024	5.0	15
boron	2 x .003 boron (4 x first 2 bays)		20
ribs (5)	.024 x .024 (3 x .003 boron 1st rib)	5.0	10
spar	.070 x .070 -> .060 x .060 (2 x .003 boron)	5.8	20
covering	OS Film		
VP	Treger (low 25, high 49)		95
Rubber	5/99 .0338 g/in (1.33 g/m) 1110 turns, 7 back, 70 remain		397