Mainsail: 6000309 David.des

Design Info
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Design File:
E:\Dropbox\Fareast Sails\2022 Order\6000309 David\6000309 David.des

Comments:

Initial Design Date: 12/3/2022
Boat:

Client:

Design Data
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Main

Measurements

Luff geodesic:	10.791m
Leech geodesic:	11.171m
Foot geodesic:	3.217m
Head geodesic:	0.115m
Upper width (MUW):	0.603m
Three-quarter width (MTW):	1.093m
Half width (MHW):	1.956m
Quarter width (MQW):	2.655m
Foot median:	10.955m
ORC Mainsail area:	19.880m?
Surface area:	20.237m?
Clew height:	0.100m
Mast rake:	0.380m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	0.931m	0.142m	75.388?	8.630m	8.914m	Full
60.000%	1.660m	0.194m	75.388?	6.472m	6.686m	Full
40.000%	2.270m	0.178m	75.388?	4.315m	4.457m	Full
20.000%	2.788m	0.118m	75.388?	2.158m	2.229m	Full

Reefing Points

1, Luff: 1.295m ; Leech: 1.328m ; Offset: 0.000m ; Number Eyelets: 2
2, Luff: 2.589m ; Leech: 2.656m ; Offset: 0.000m ; Number Eyelets: 2
3, Luff: 3.884m ; Leech: 3.988m ; Offset: 0.000m ; Number Eyelets: 2

Luff Slides

1, Position: 0.719m
2, Position: 1.550m
3, Position: 2.877m
4, Position: 3.596m
5, Position: 5.034m
6, Position: 5.753m
7, Position: 7.191m
8, Position: 7.910m
9, Position: 9.350m
10, Position: 10.071m

Luff Curve

10.791m,	0.000m
8.093m,	-0.034m
5.395m,	-0.045m
2.698m,	-0.034m
0.000m,	0.000m

Fanned Luff (@ 5.00% [0.160m])		Before BSeam
100% (10.791m) :	0.000m	0.000m
90% (9.712m) :	0.011m	0.029m
80% (8.633m) :	0.021m	0.057m
70% (7.554m) :	0.028m	0.083m
60% (6.475m) :	0.032m	0.100m
50% (5.395m) :	0.033m	0.104m
40% (4.316m) :	0.031m	0.095m
30% (3.237m) :	0.027m	0.078m
20% (2.158m) :	0.019m	0.055m
10% (1.079m) :	0.009m	0.025m
0% (0.000m) :	0.000m	0.000m

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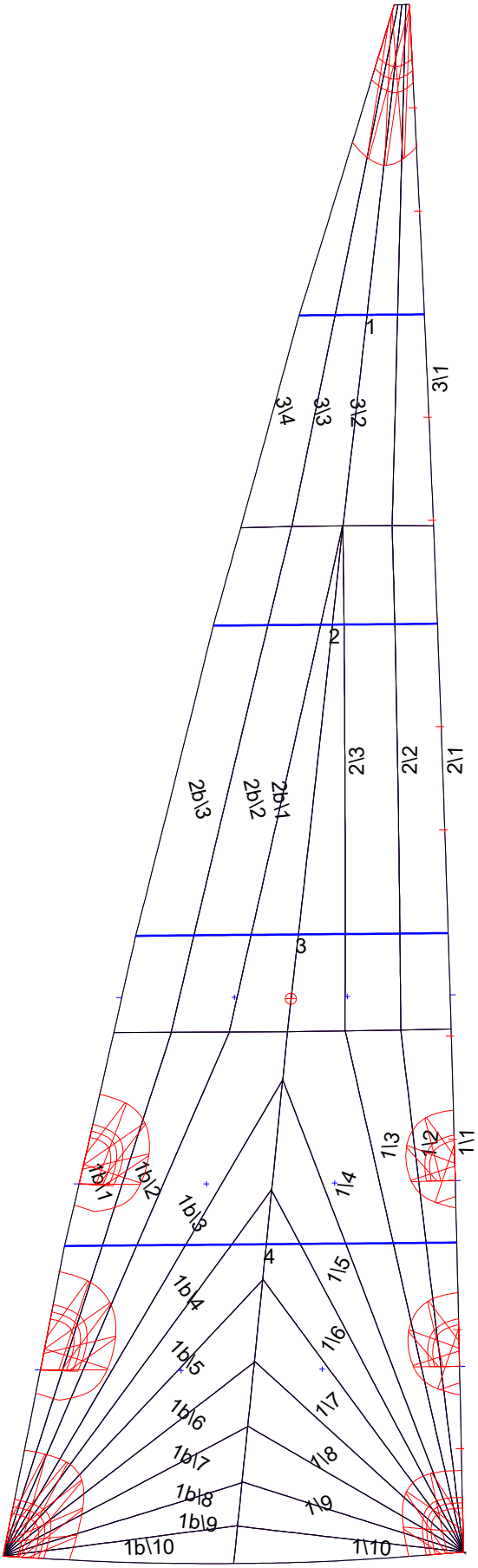

Seam Allowances

	Split	Radial	Cross
Zone: 1/a	0.025m	0.015m	0.025m
Zone: 1/b	0.025m	0.015m	0.025m
Zone: 2/a	0.025m	0.015m	0.025m
Zone: 2/b	0.025m	0.015m	0.025m
Zone: 3	0.025m	0.015m	0.025m

Edge Excesses

	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	3.87
Radial/Vertical	73.78
Bi-Radial Split	7.48

Materials

Material	Area (m?	Panels
Material 1	20.27	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1b\1,1b\2,1b\3,1b\4,1b\5 1b\6,1b\7,1b\8,1b\9,1b\10 2\1,2\2,2\3,2b\1,2b\2 2b\3,3\1,3\2,3\3,3\4

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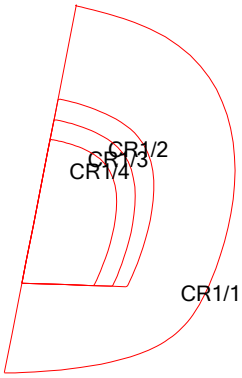

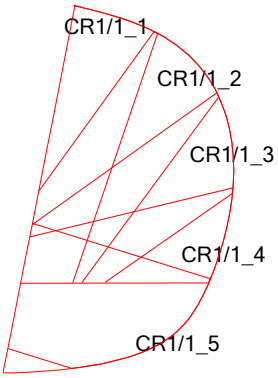

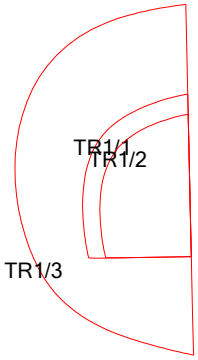

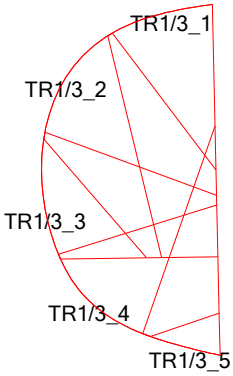

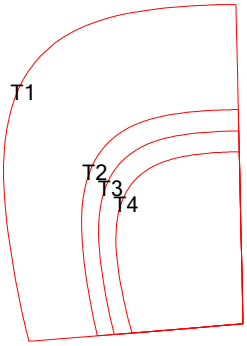

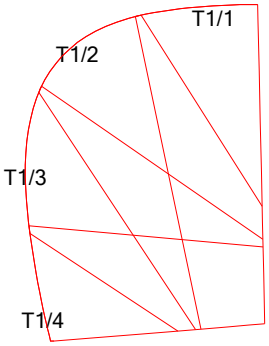

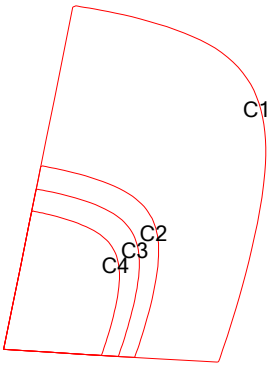

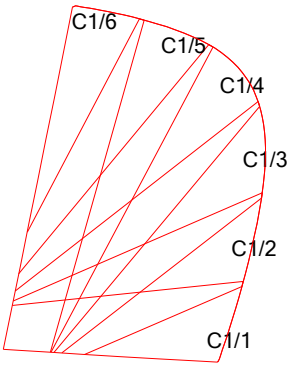

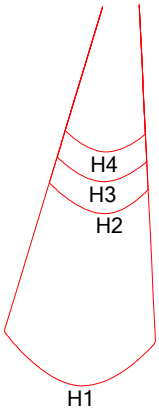

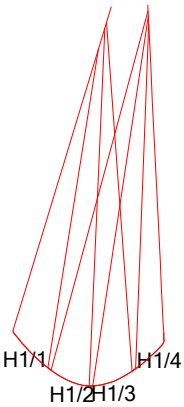

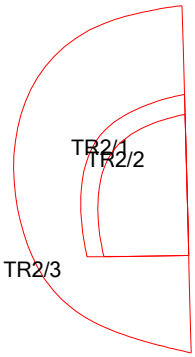

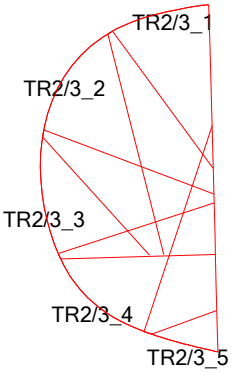
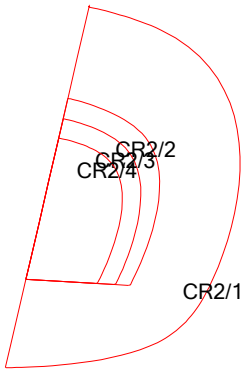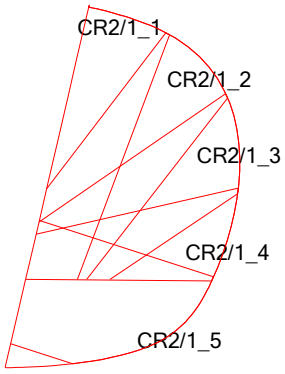
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