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# FT Sea Angel

Designed By: Josh Bixler,  
Andres Lu,  
and Jeremy Andrew Davis  
Drawing By: Dan Sponholz  
Version: 1.1  
Date: 2018.10.18



## GENERAL SPECIFICATIONS:

LENGTH:	31.0 in	(787.4 mm)
CG:	2.0 in	(50.8 mm)
WINGSPAN:	42.0 in	(1066.8 mm)
WING AREA:	325.4 in <sup>2</sup>	(21.0 dm <sup>2</sup> )
DRY WEIGHT:	22.4 oz.	(635 g)
ALL UP WEIGHT:	30.5 oz.	(865 g)
WING LOADING:	13.5 oz/ft <sup>2</sup>	(41.2 g/dm <sup>2</sup> )
WCL:	9.0	
THROWS:	12°	
EXPO:	30%	
CHANNELS:	3 OR 4 [THR   AIL   ELE   RUD]	

## RECOMMENDED ELECTRONICS:

MOTOR:	Park 425 1000 kv min.
PROPELLER:	9 x 4.5
ESC:	30 amp min.
SERVOS:	4X 9 gram
BATTERY:	2200 mAh 4S



## BUILD SKILL LEVEL:

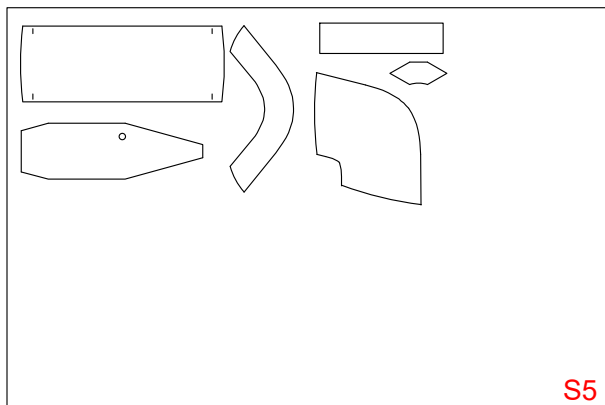
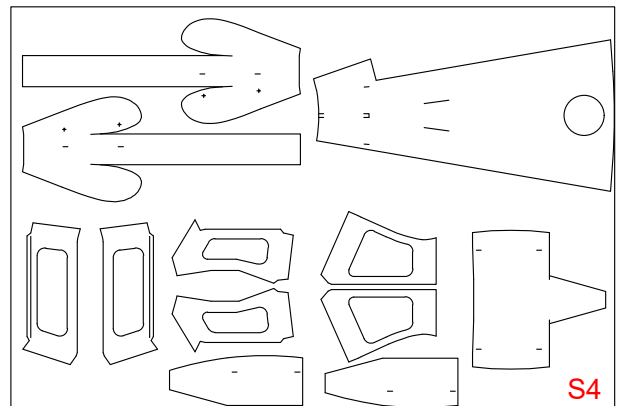
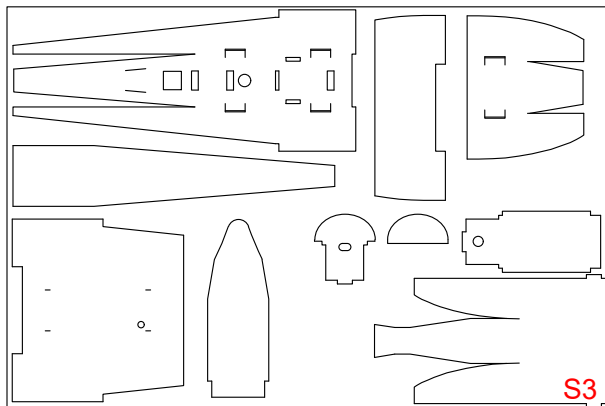
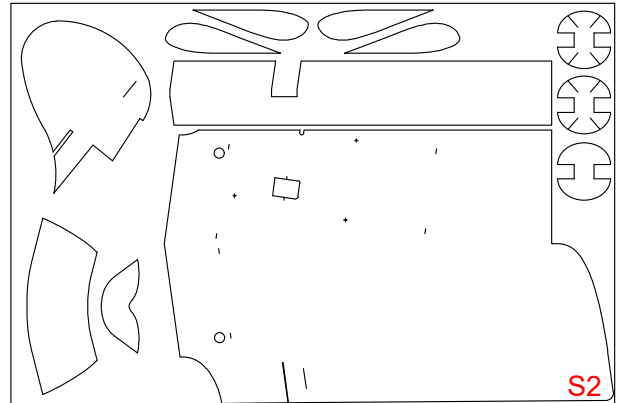
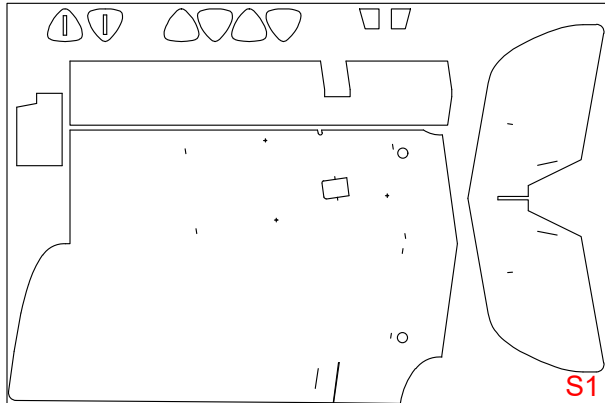


## PILOT SKILL LEVEL:



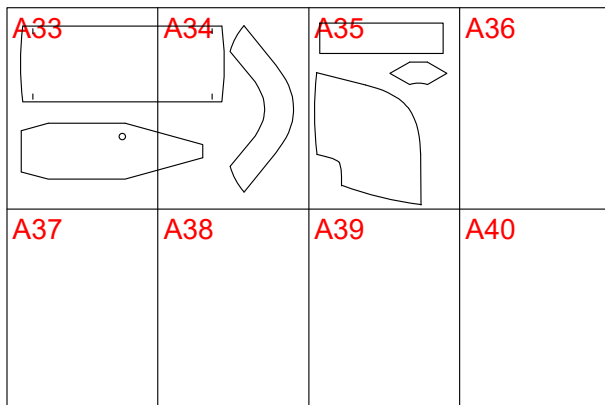
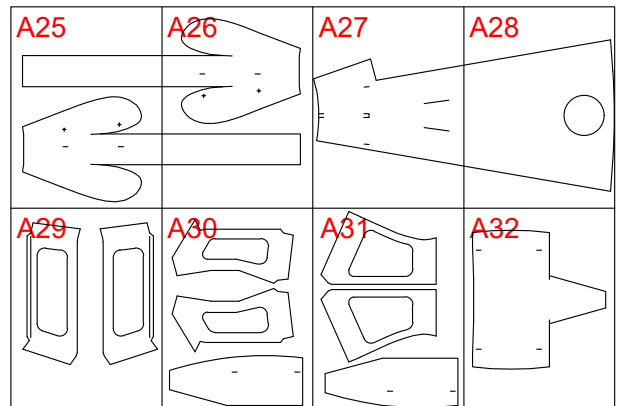
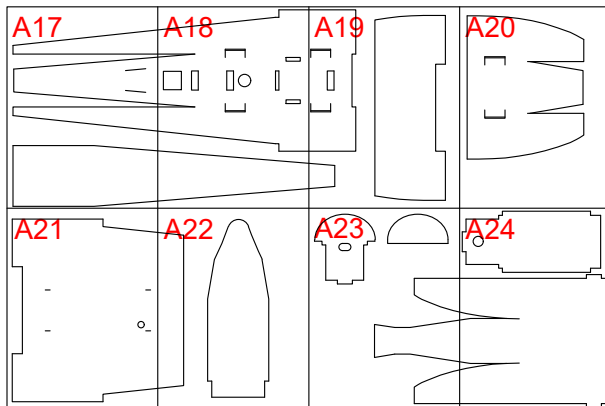
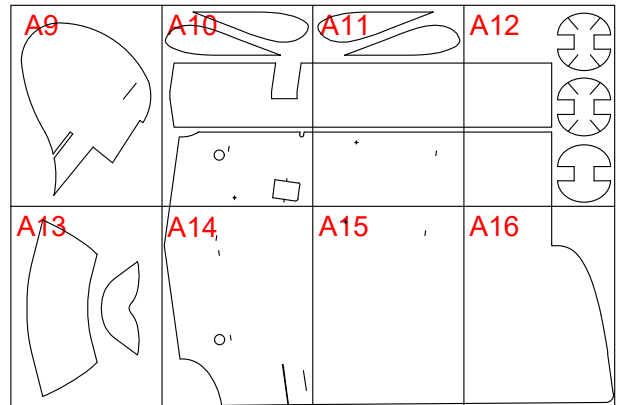
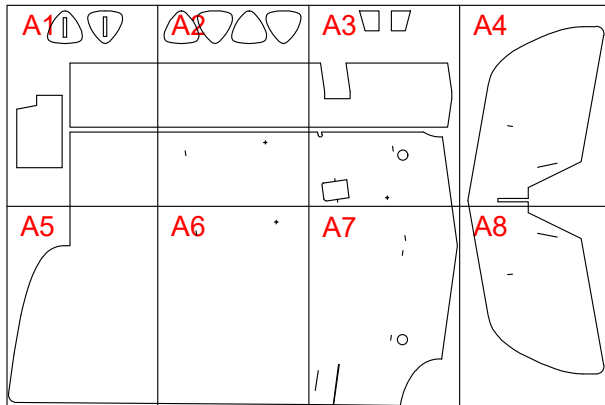


# FT Sea Angel: Full-Size Key



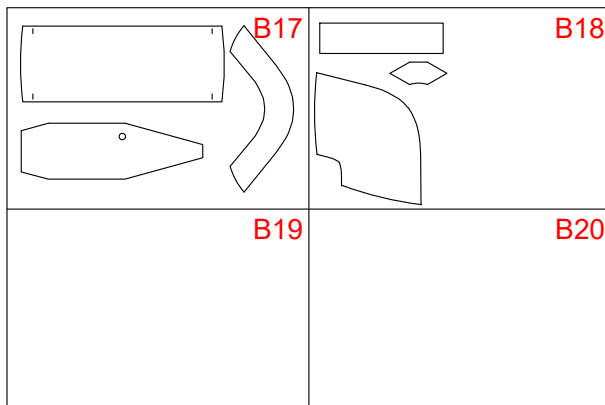
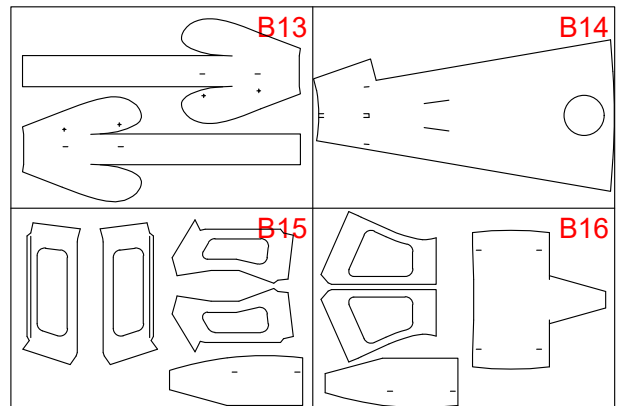
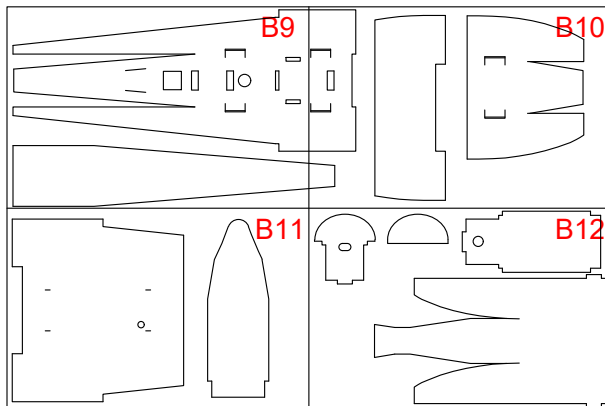
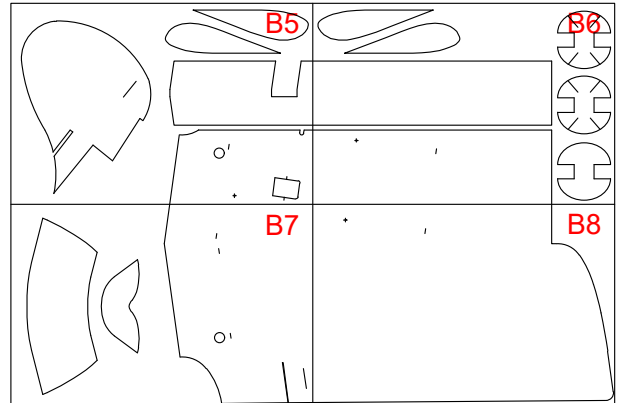
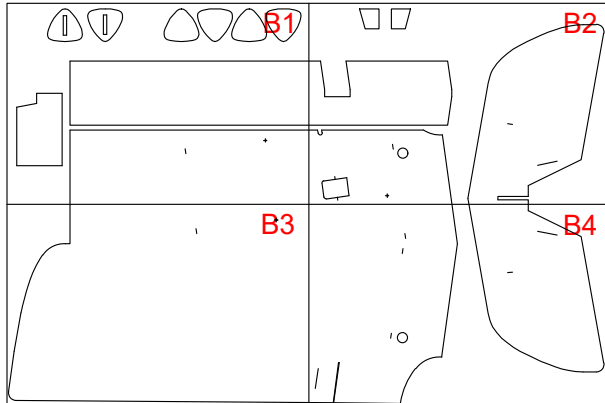


# FT Sea Angel: Tile A Key





# FT Sea Angel: Tile B Key

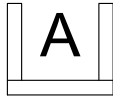




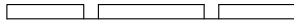
# Drawing Key



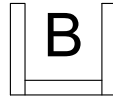
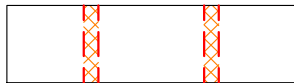
## FOLD TYPES



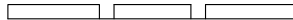
A



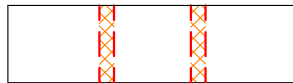
A - FOLD (ABOVE)



B



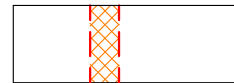
B - FOLD (BESIDE)



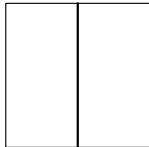
C



C - FOLD (COVER)



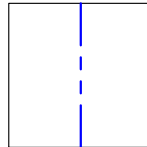
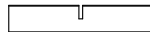
## LINE TYPE/COLOR



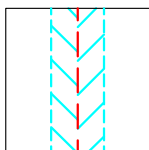
CUT



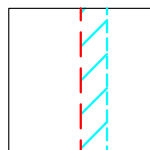
50% SCORE



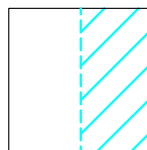
CREASE



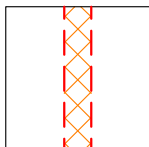
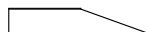
45° DOUBLE  
BEVEL



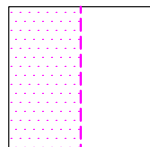
45° SINGLE  
BEVEL



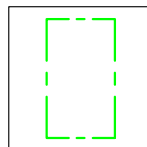
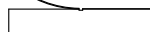
EDGE  
BEVEL



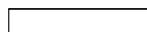
CAVITY



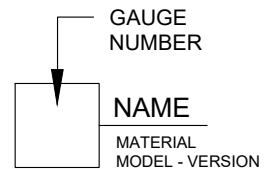
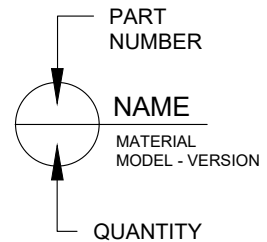
REMOVE  
PAPER



REFERENCE/  
OPTIONAL



## SYMBOLS



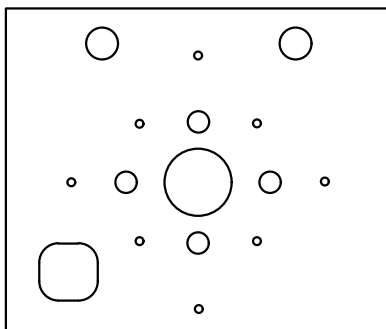
CENTER  
OF  
GRAVITY  
(CG)



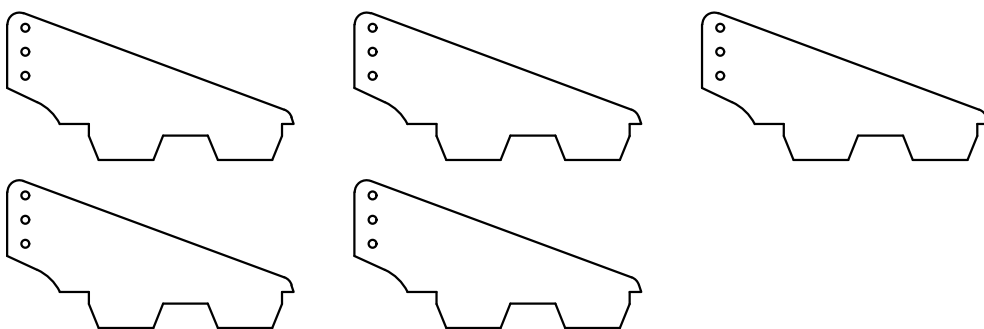
# FT Sea Angel: Wood Parts



HOBBY GRADE PLYWOOD  
3/32" (2.4 mm) THICK



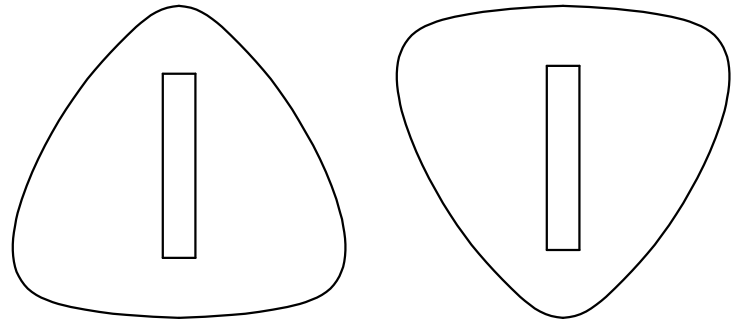
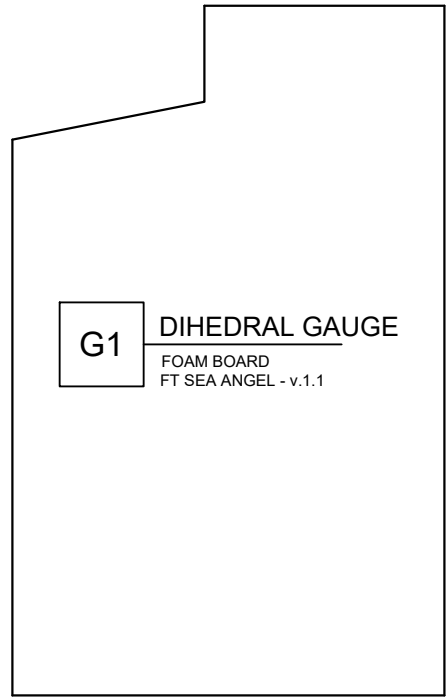
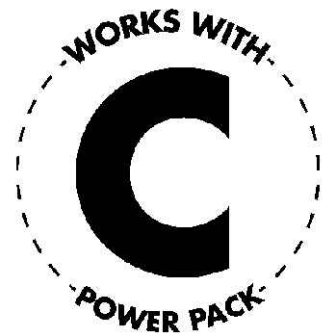
FT SWAPPABLE FIREWALL



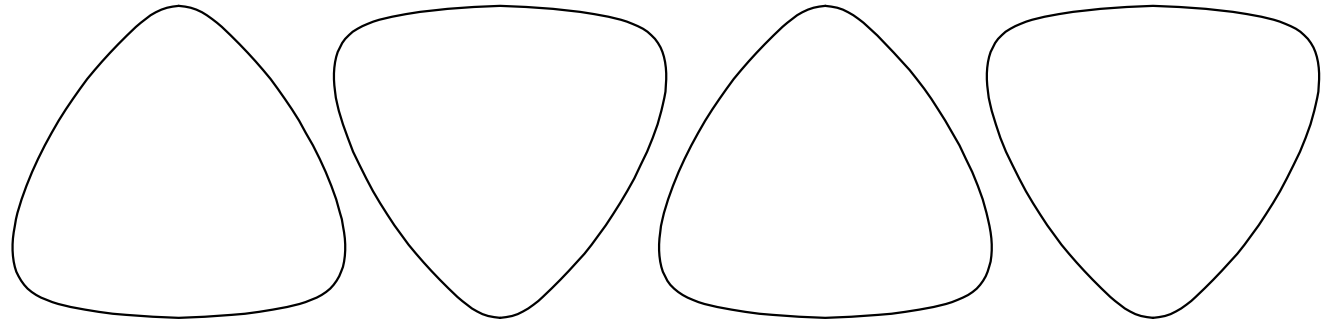
FT CONTROL HORNS

FT Sea Angel

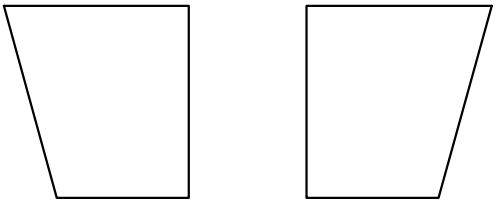
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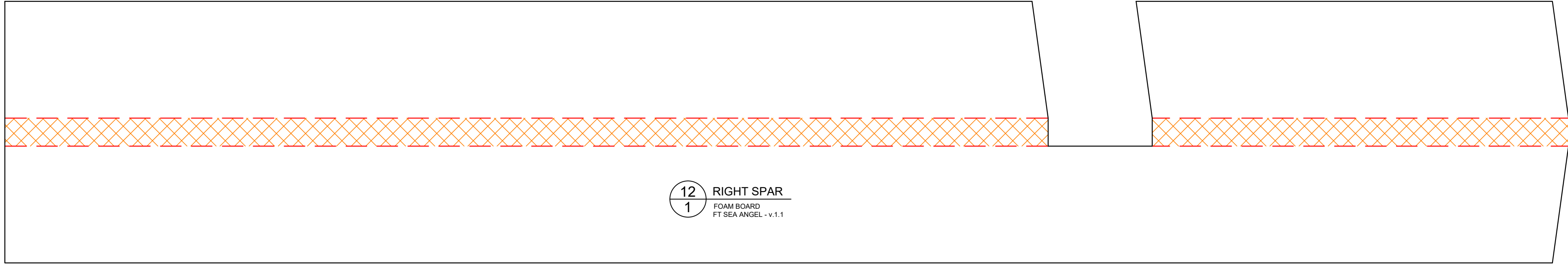
39  
2 INSIDE RADIATOR FINS  
FOAM BOARD  
FT SEA ANGEL - v.1.1



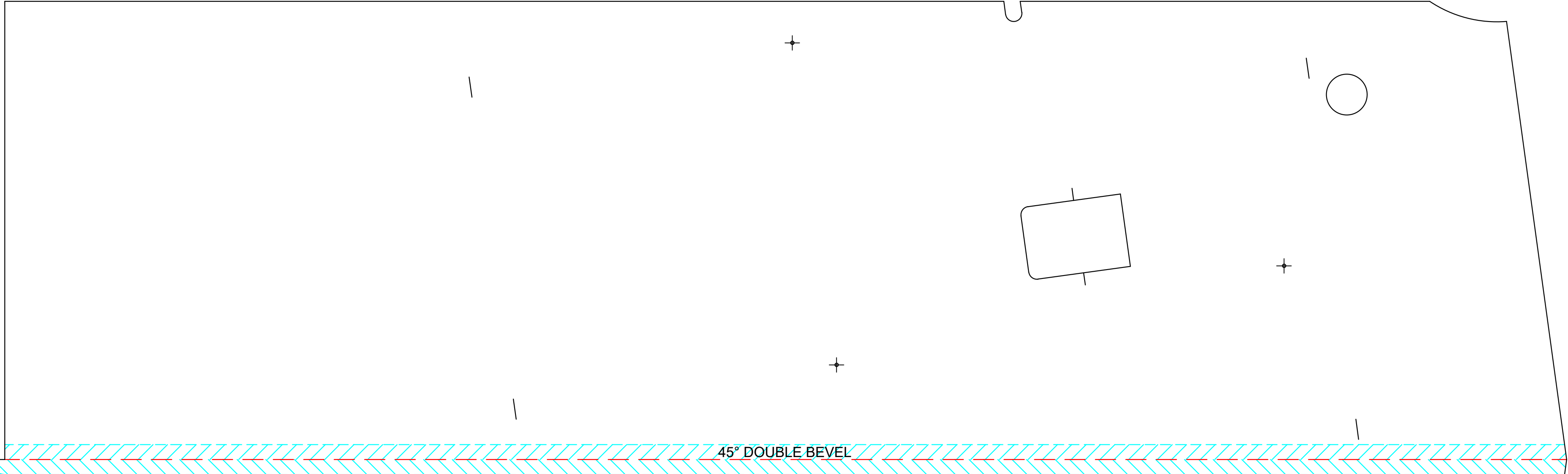
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4 OUTSIDE RADIATOR FINS  
FOAM BOARD  
FT SEA ANGEL - v.1.1



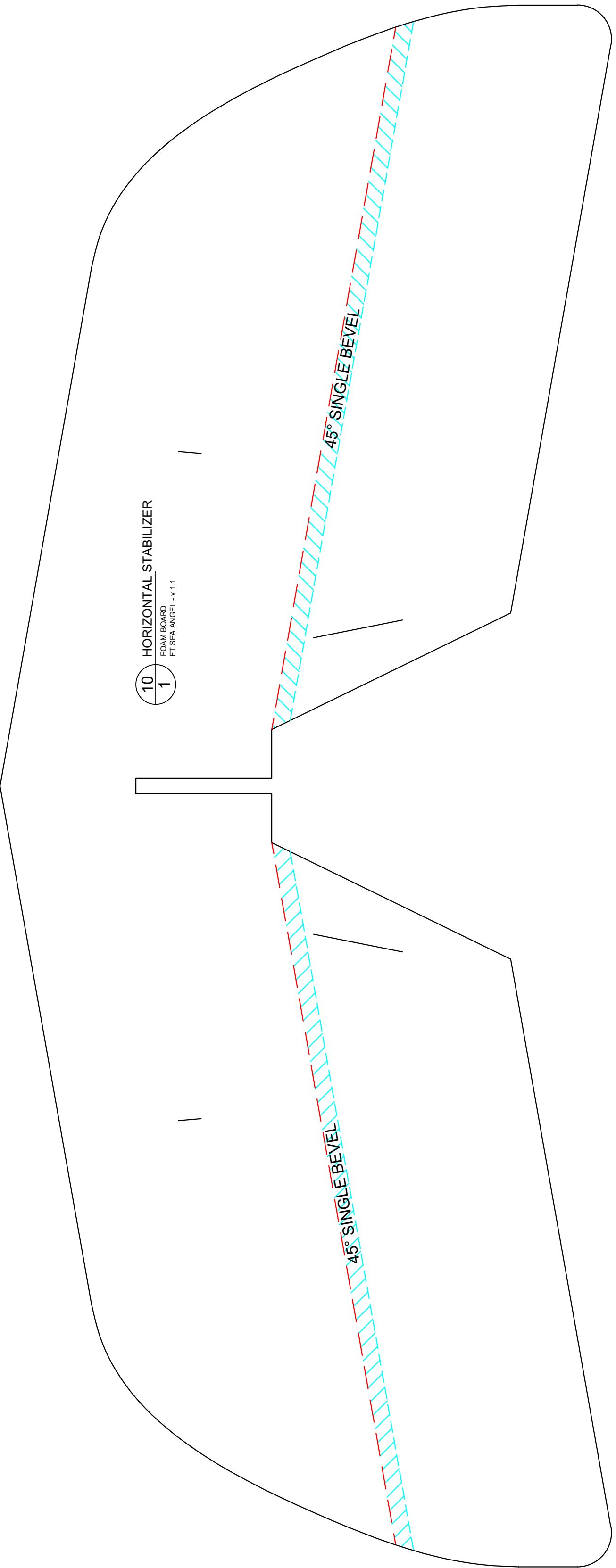
41  
2 RADIATOR SUPPORTS  
FOAM BOARD  
FT SEA ANGEL - v.1.1



12  
1 RIGHT SPAR  
FOAM BOARD  
FT SEA ANGEL - v.1.1



11  
1 RIGHT WING  
FOAM BOARD  
FT SEA ANGEL - v.1.1



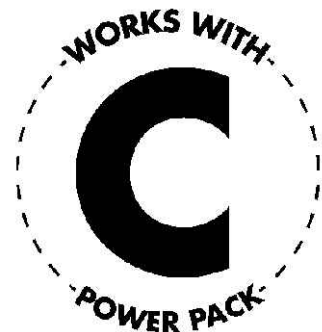
10  
1 HORIZONTAL STABILIZER  
FOAM BOARD  
FT SEA ANGEL - v.1.1



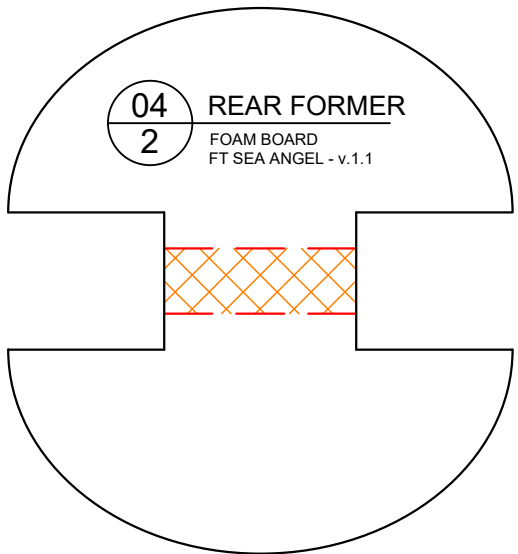
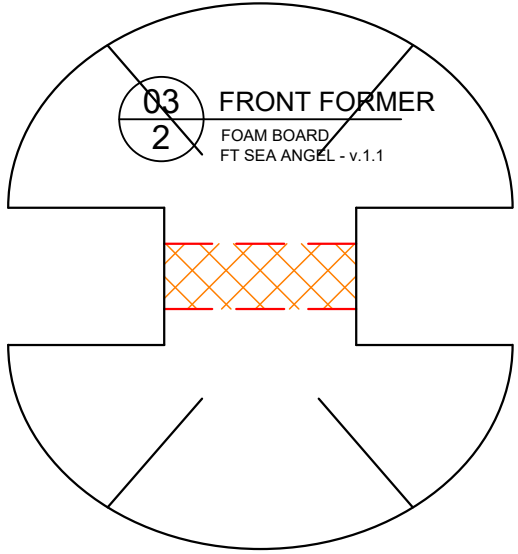
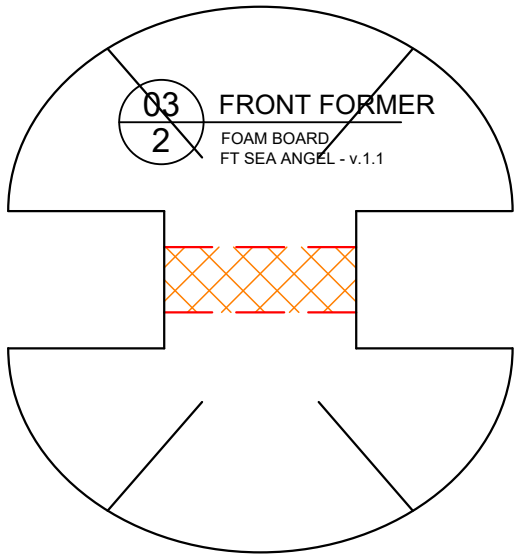
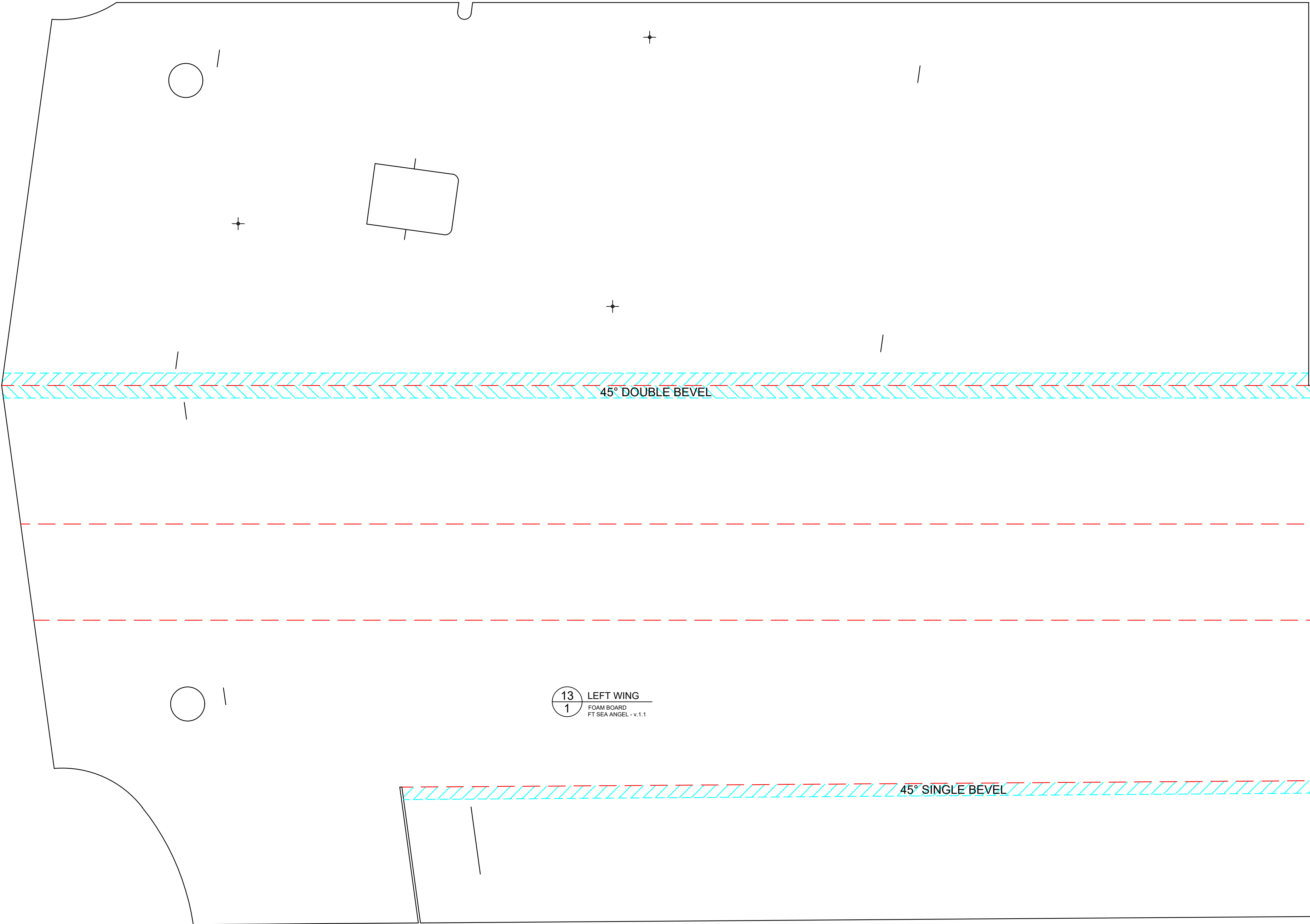
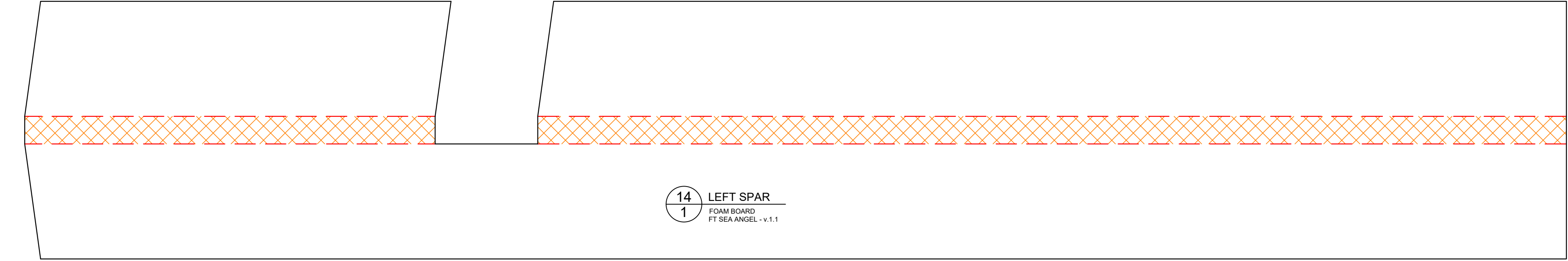
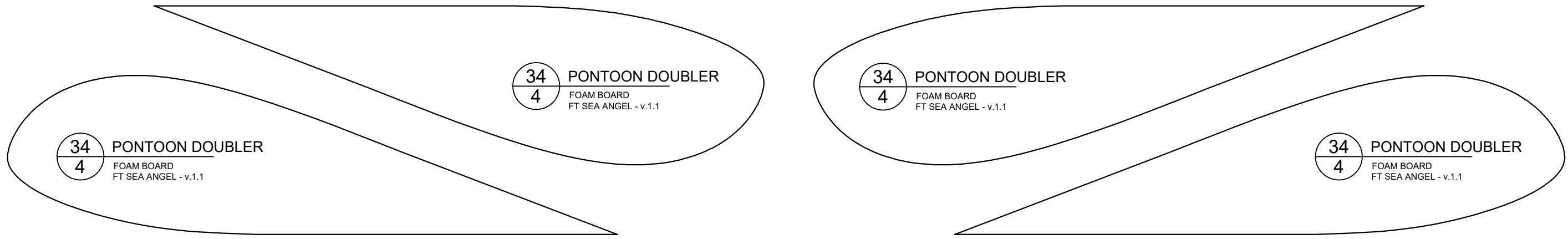
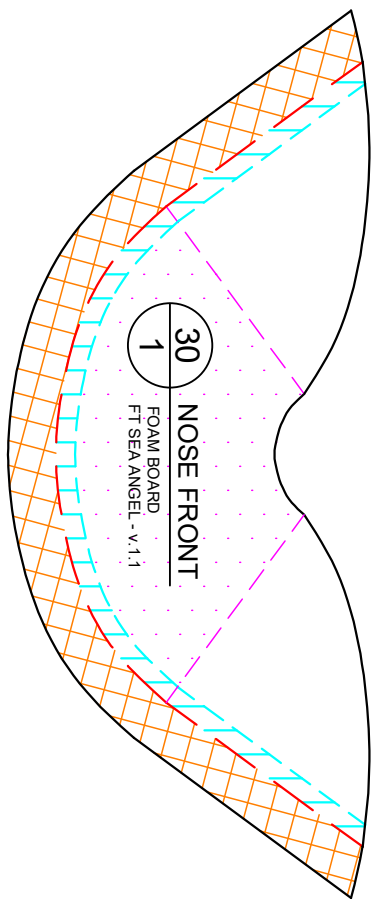
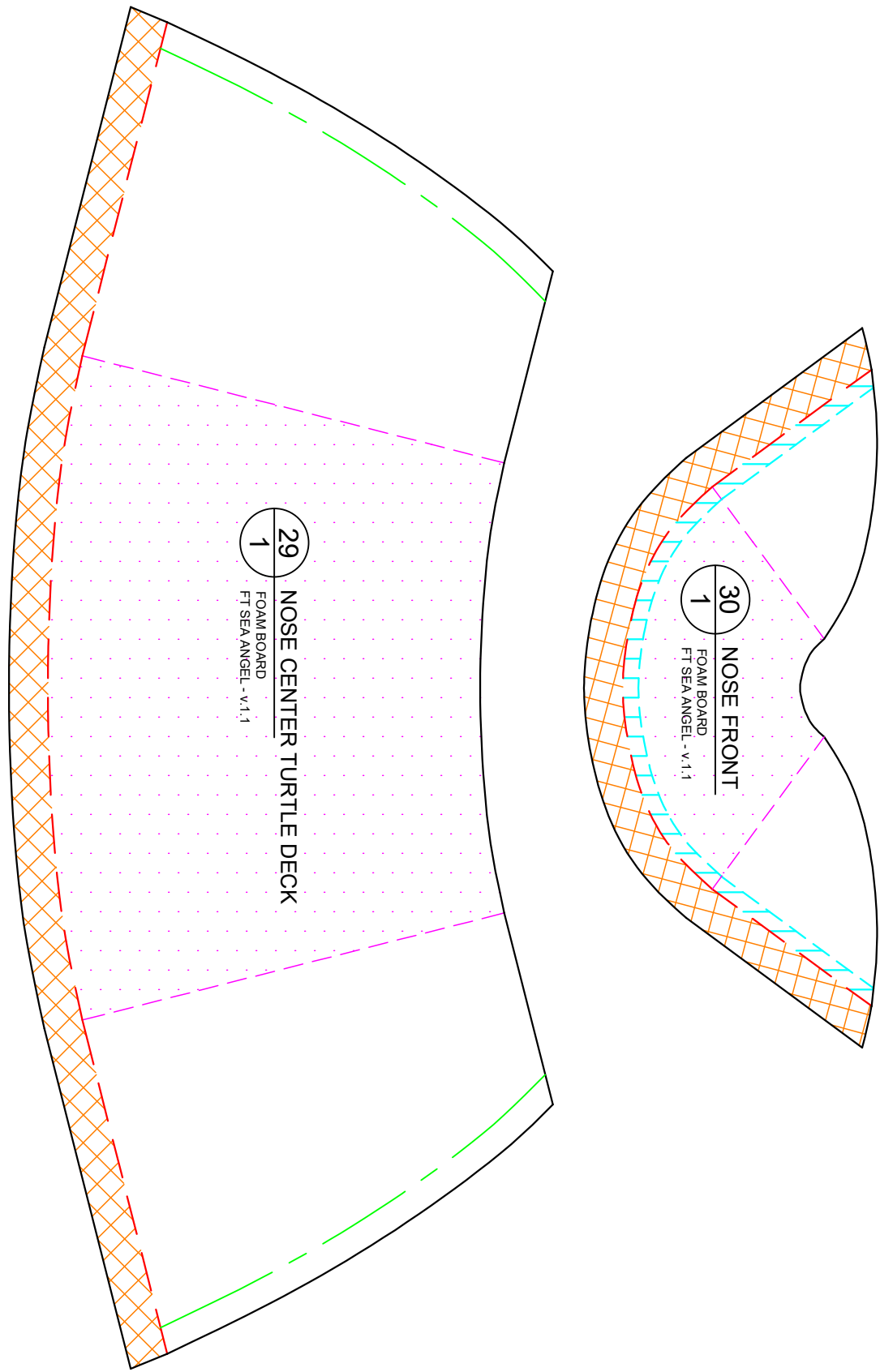
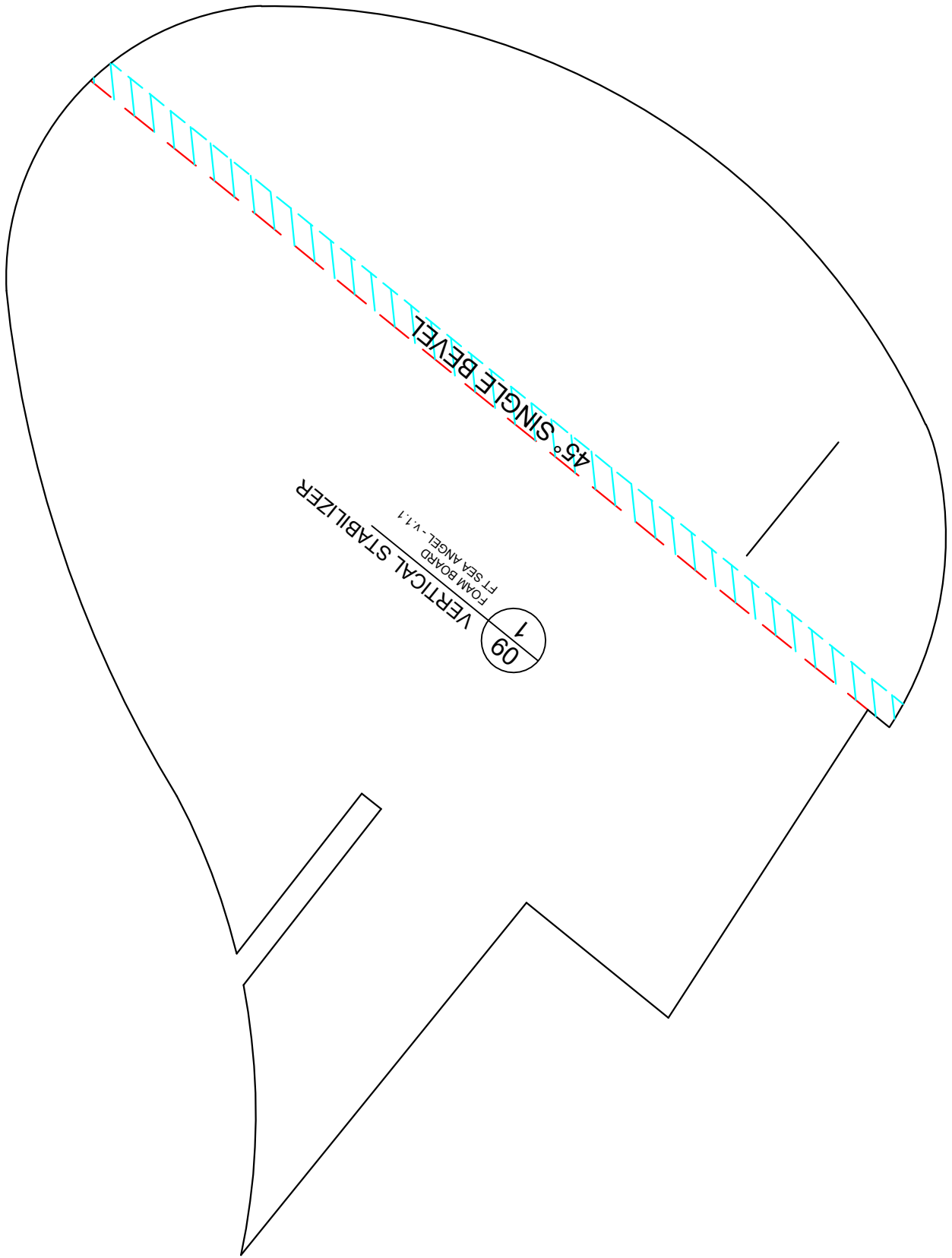


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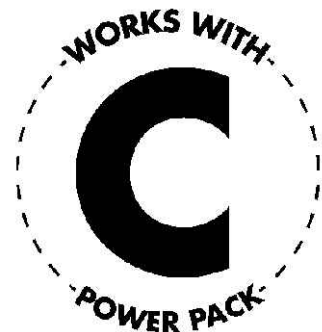
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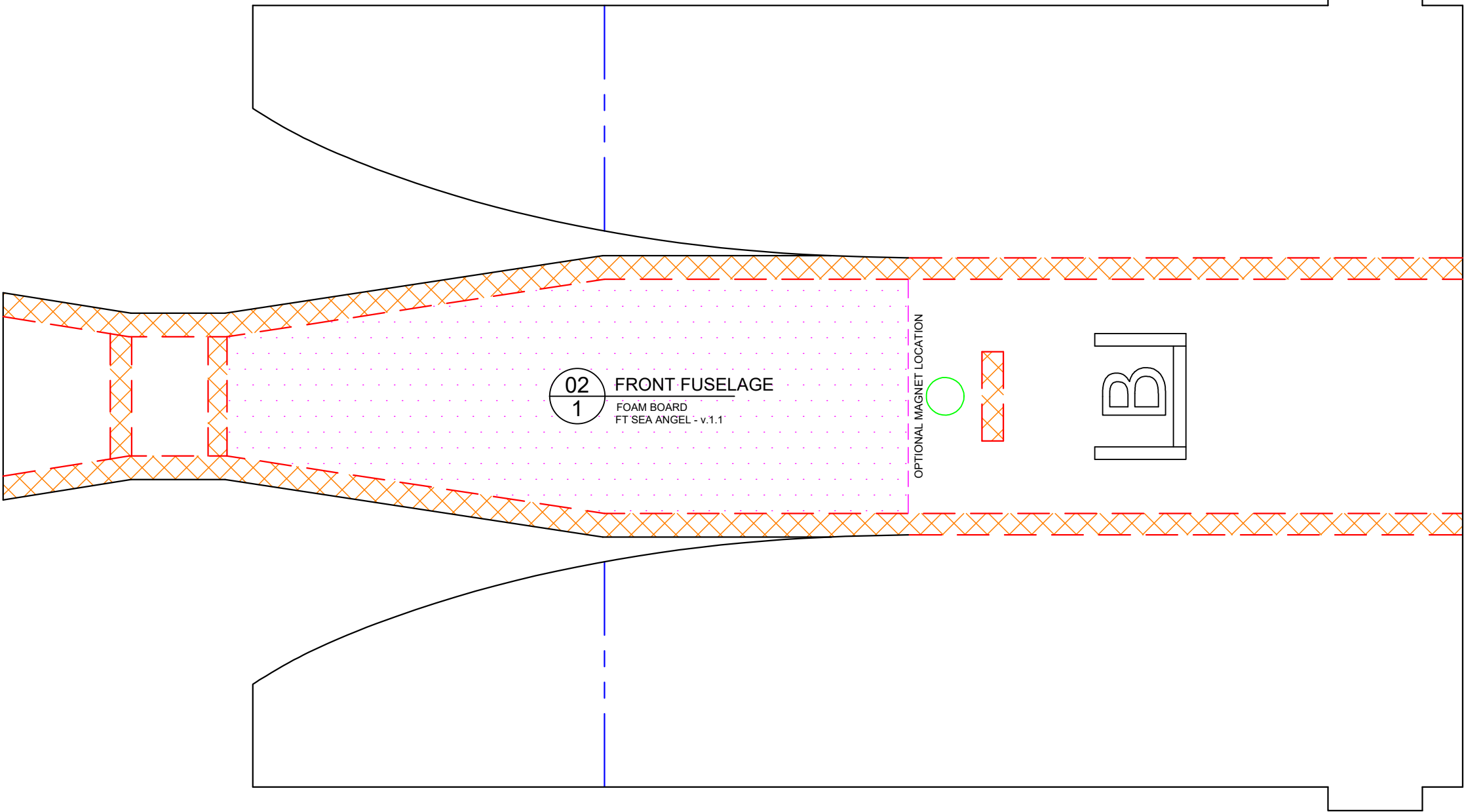
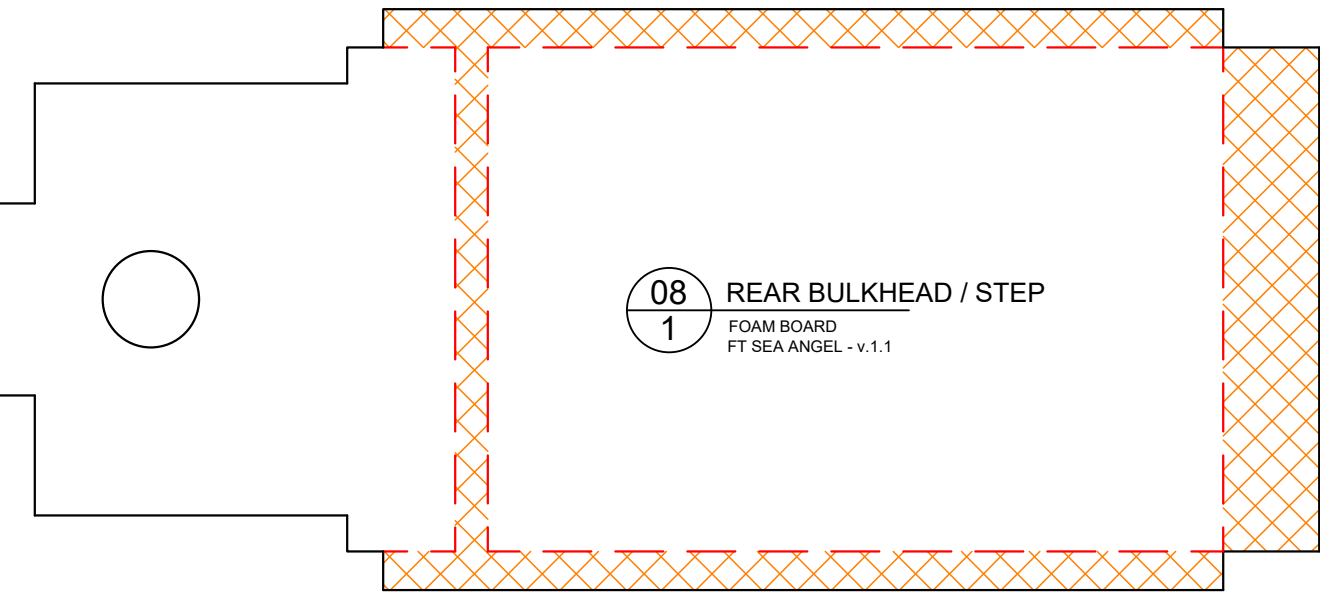
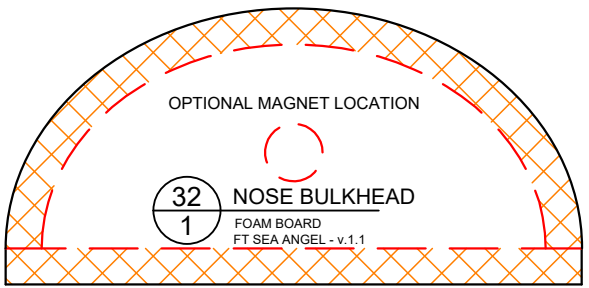
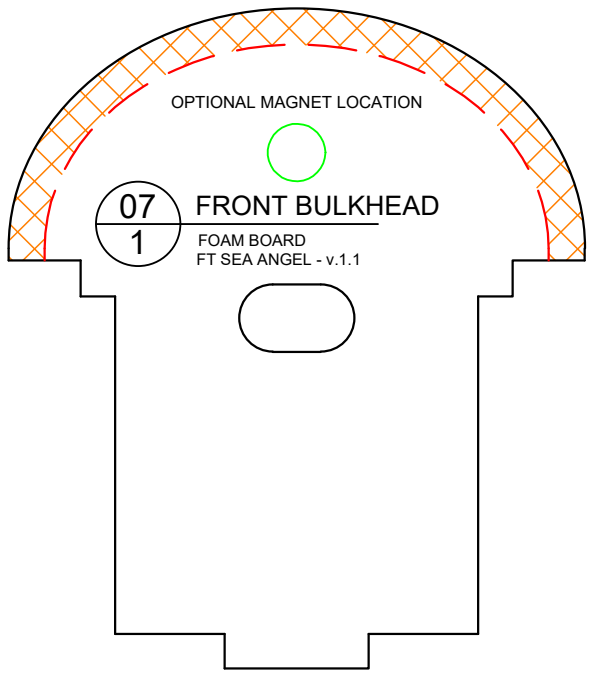
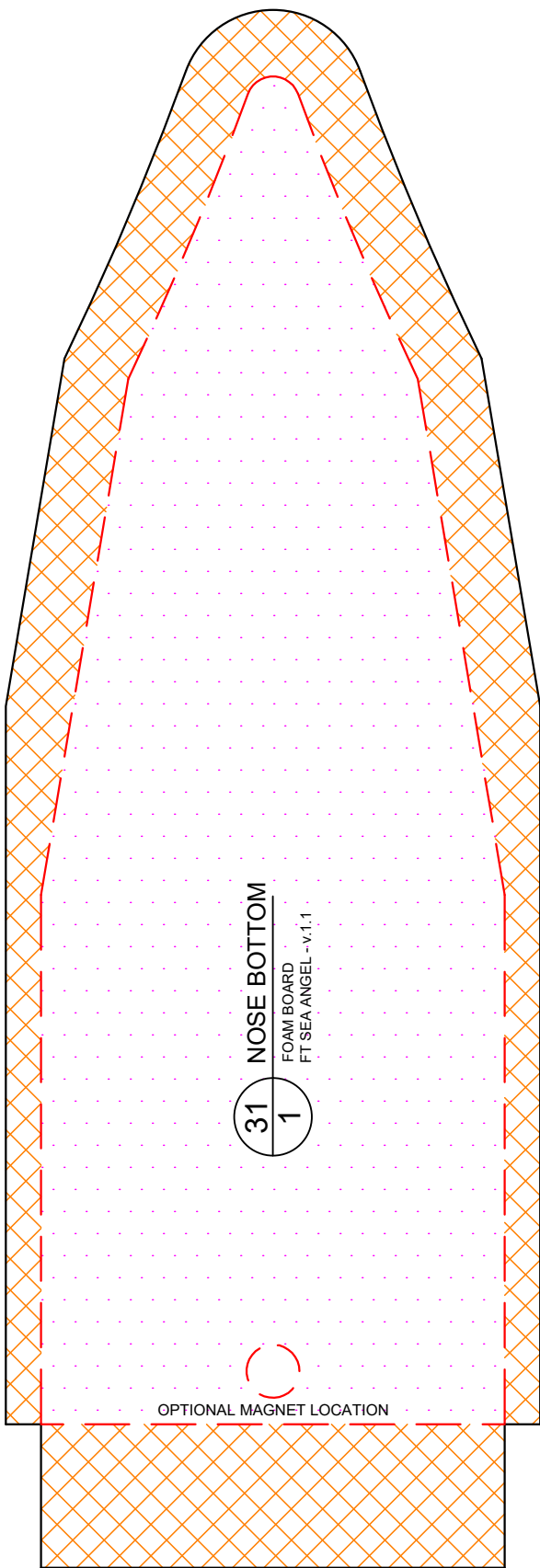
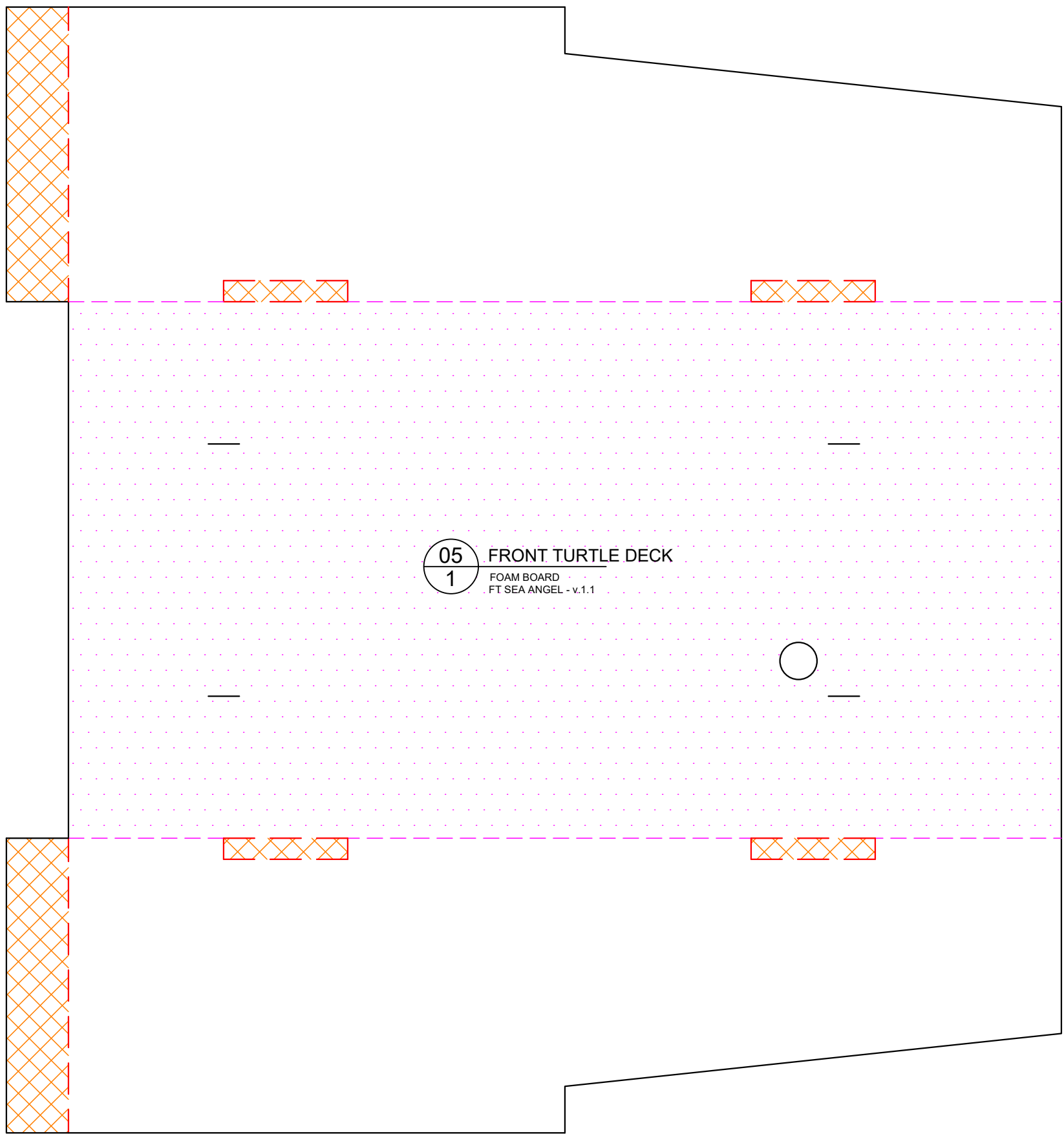
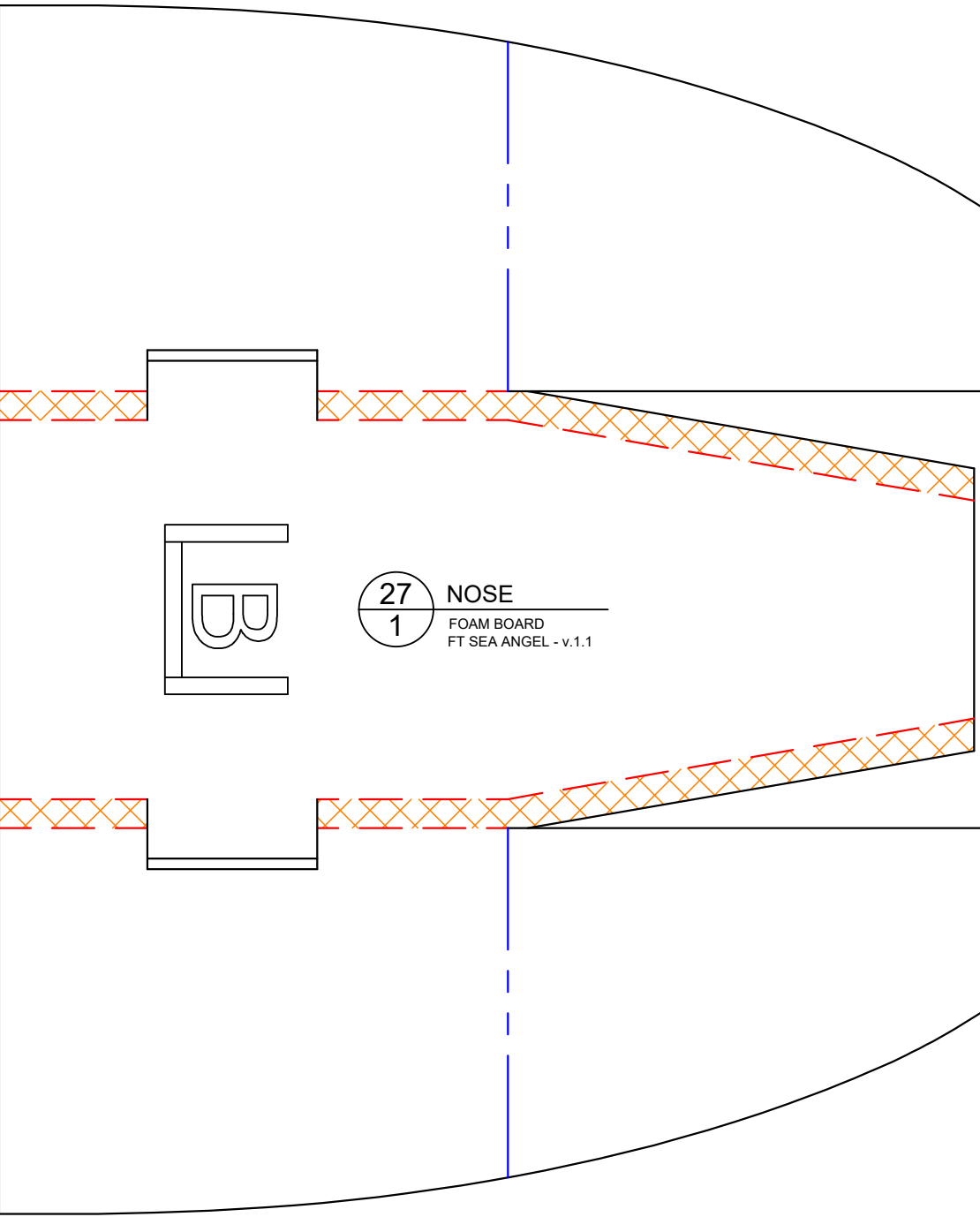
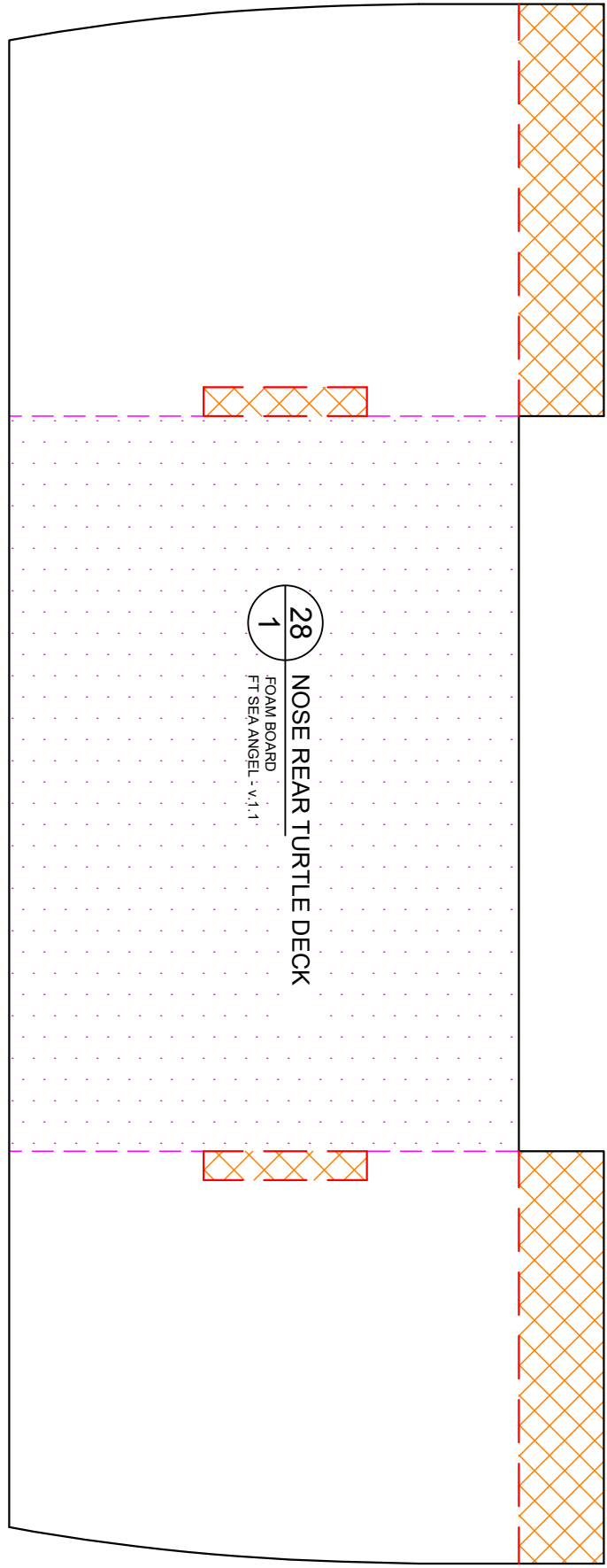
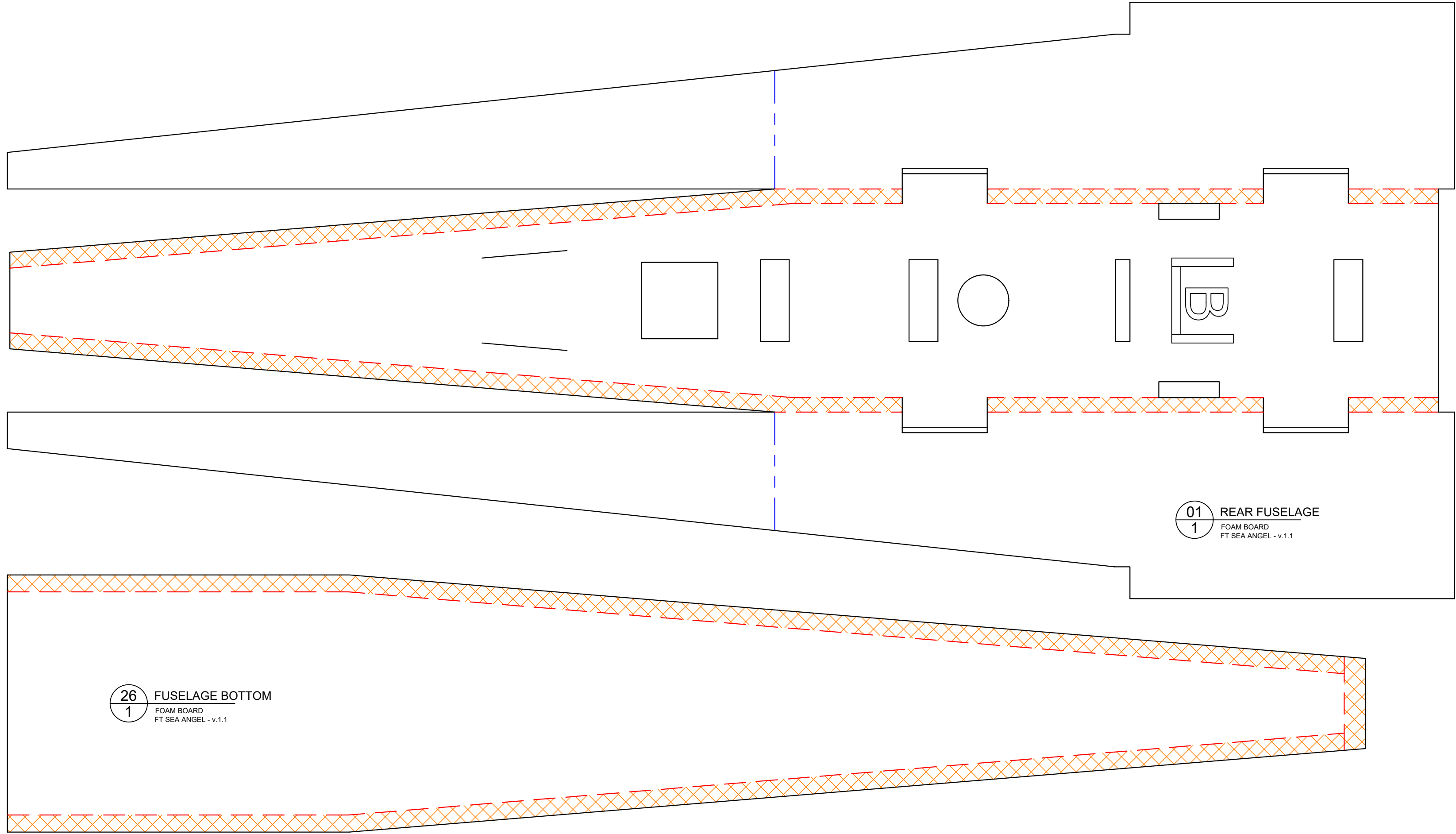


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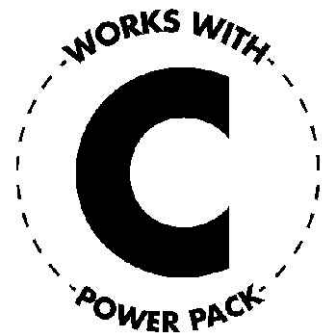


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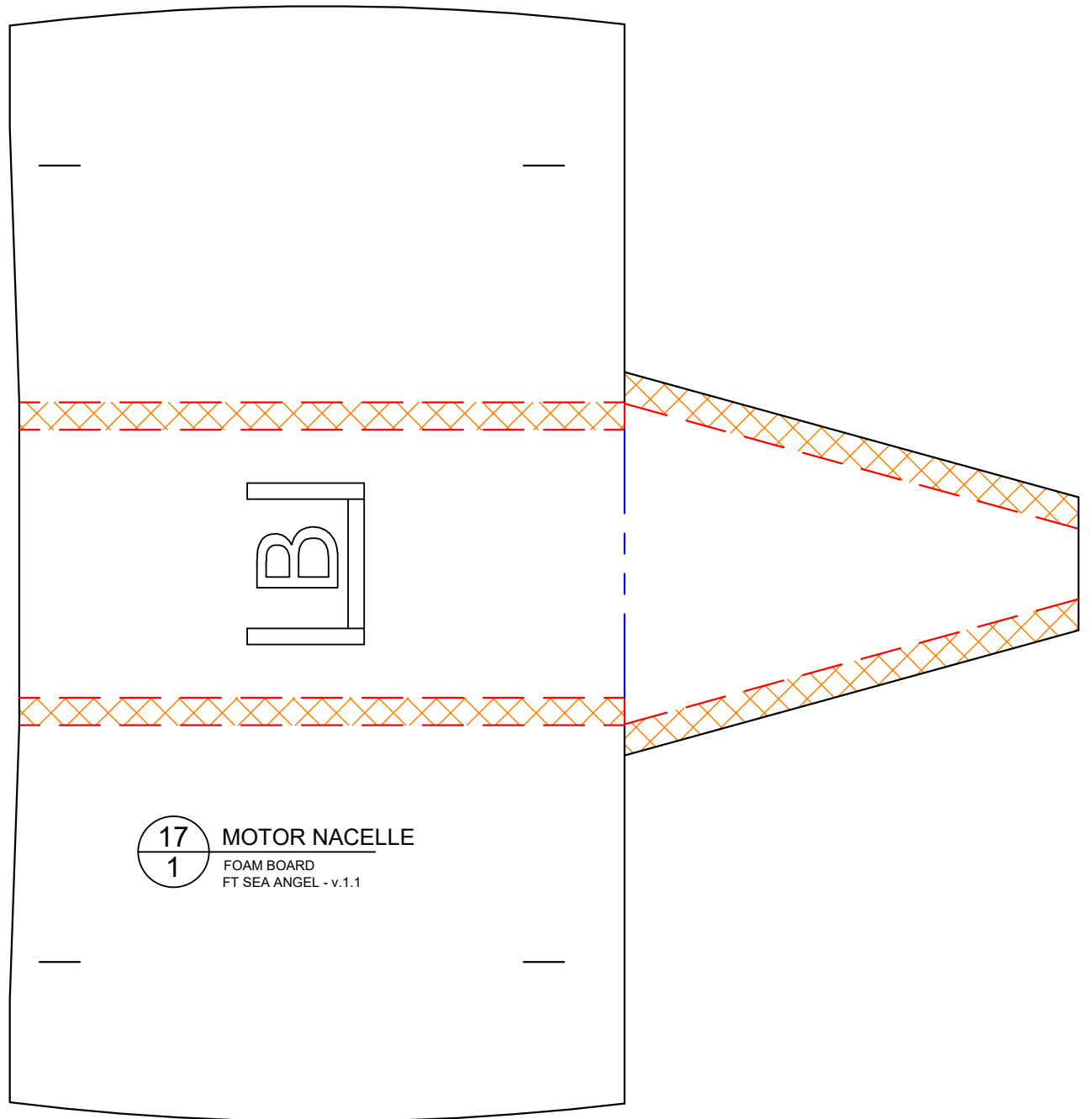
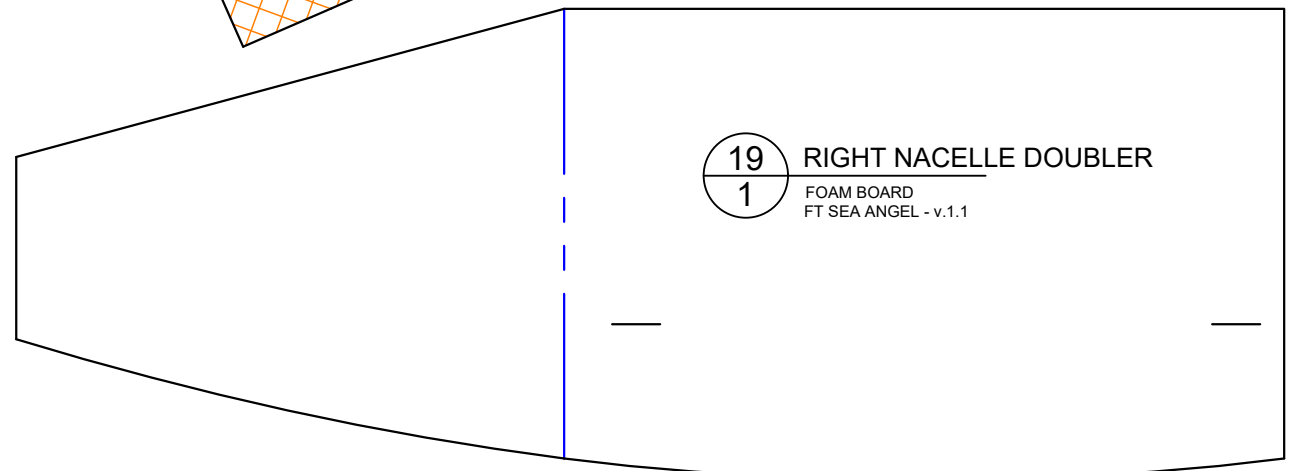
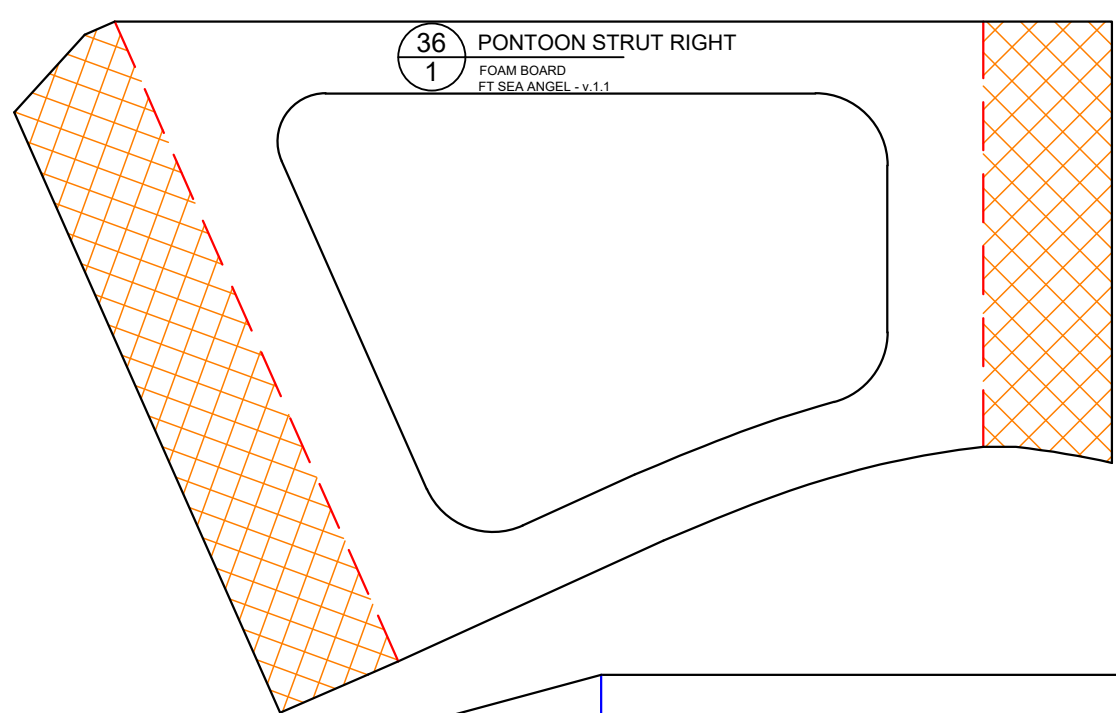
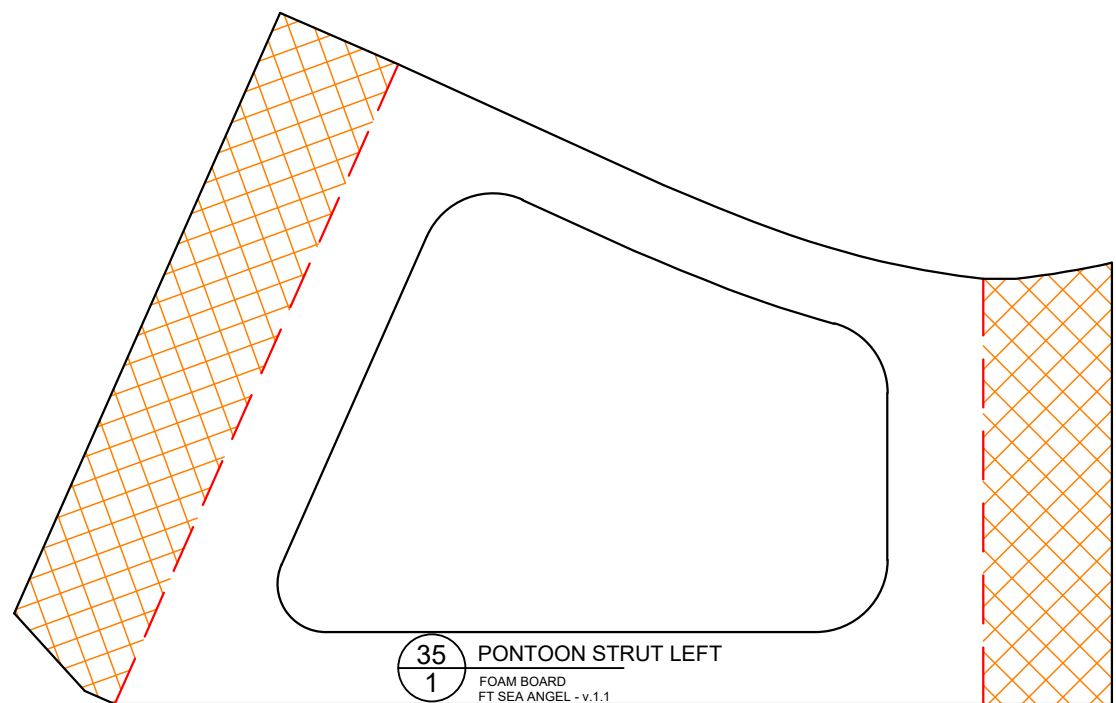
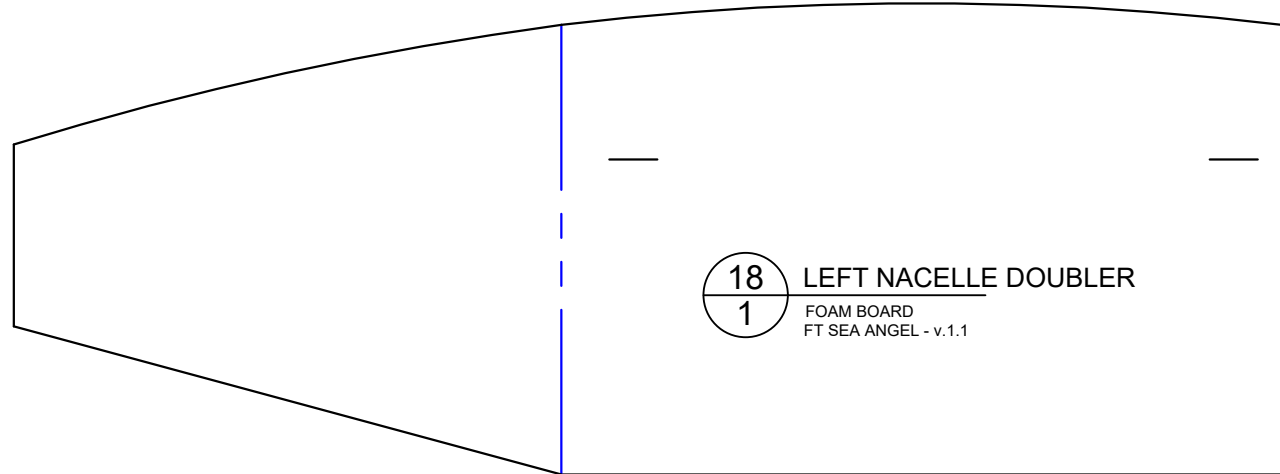
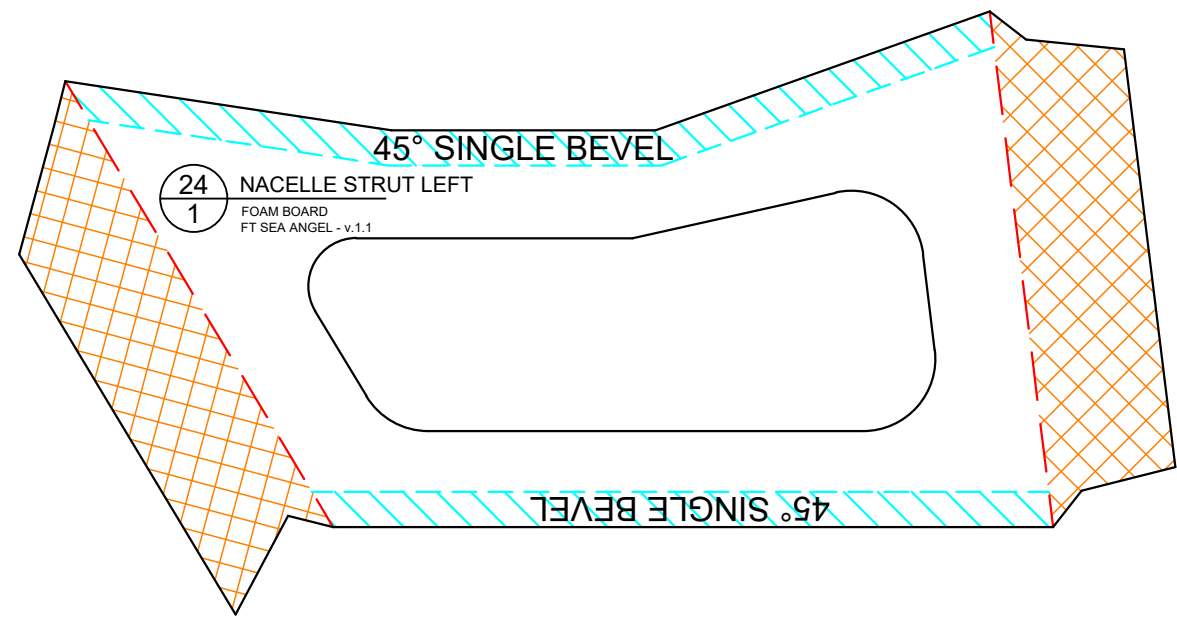
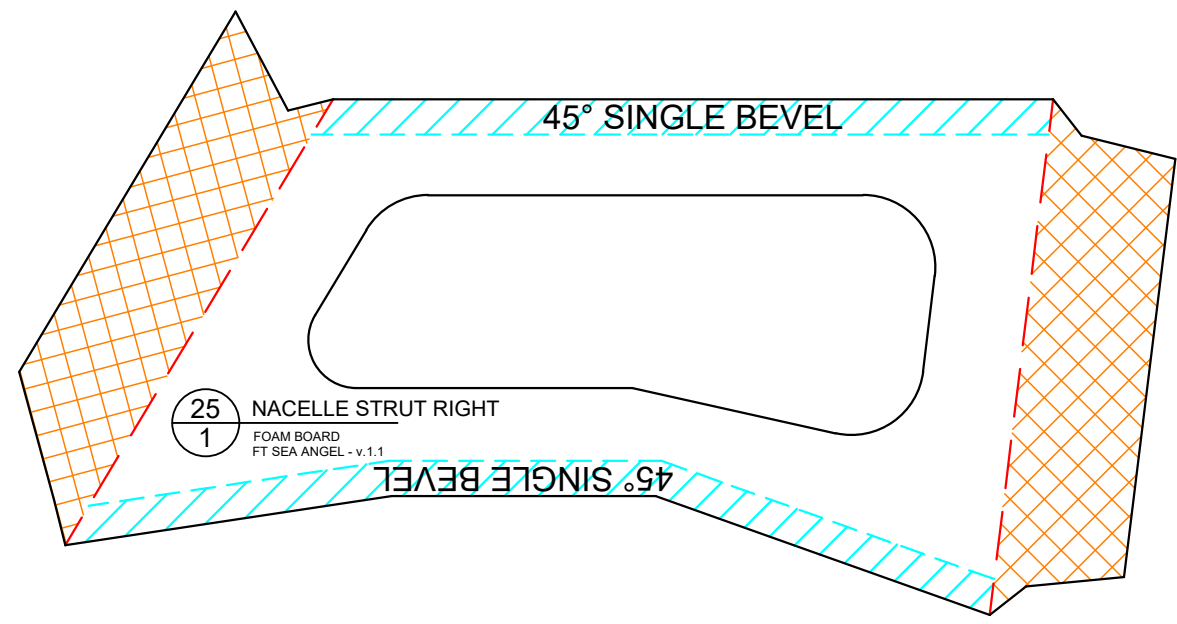
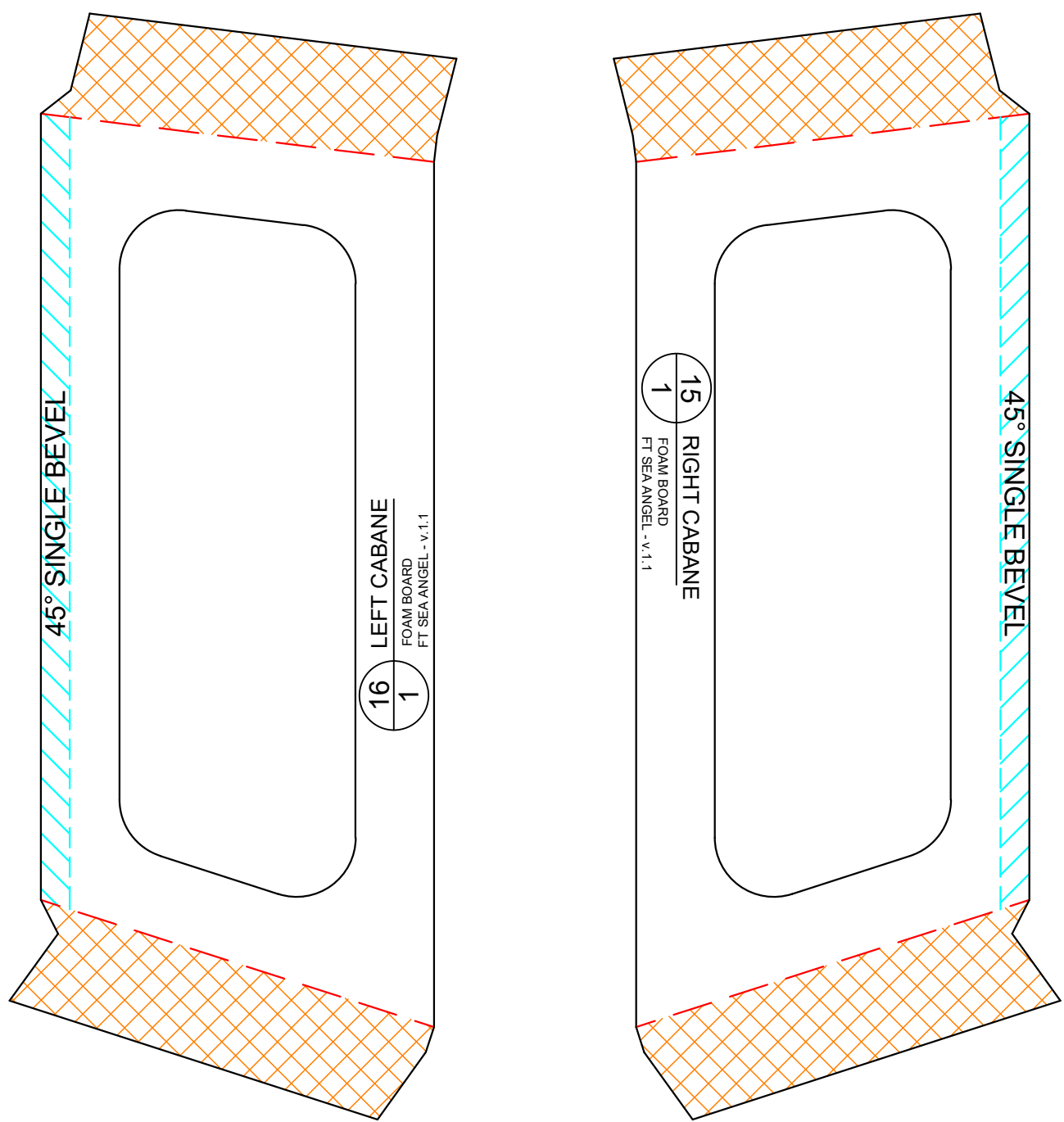
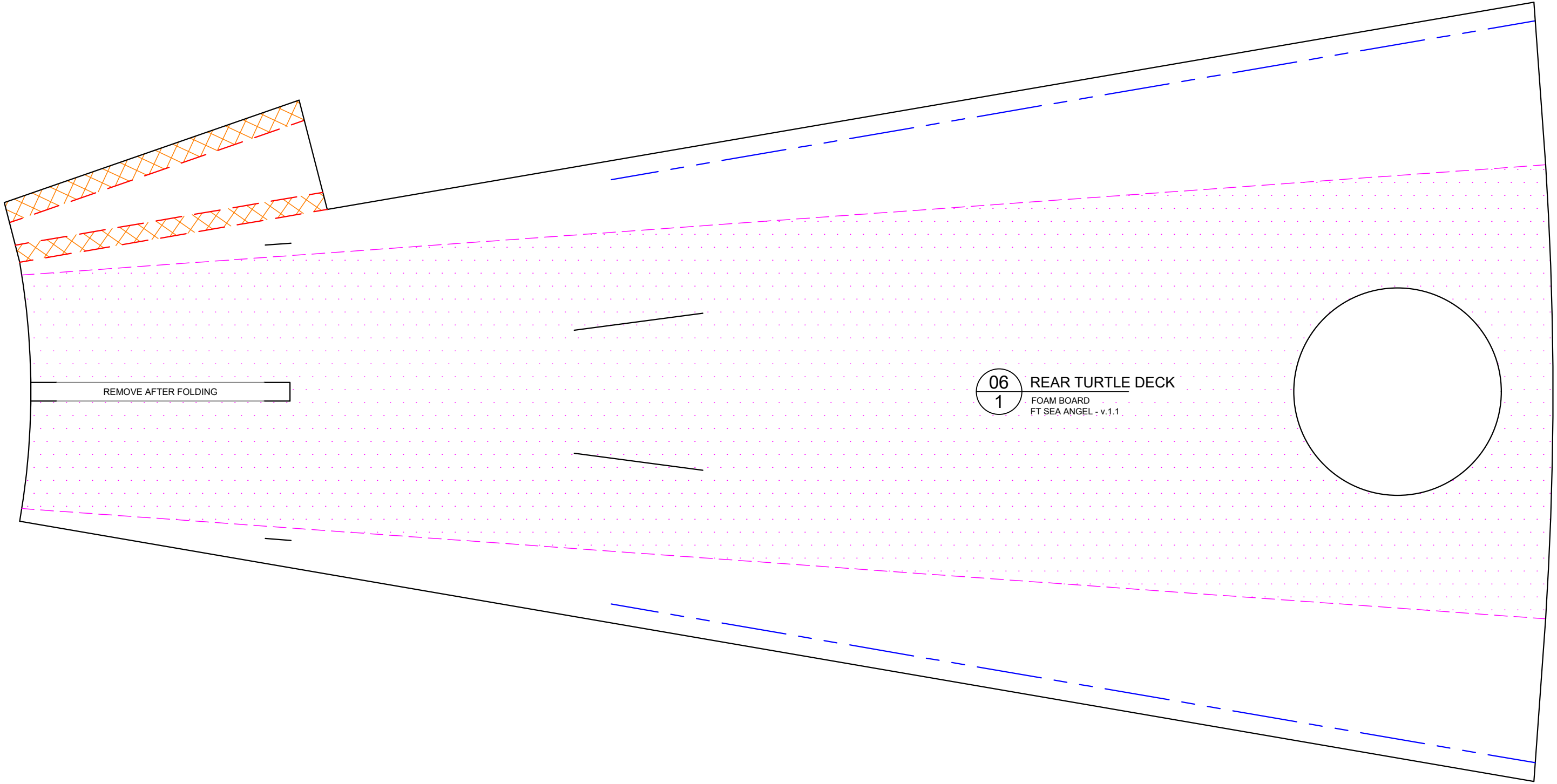
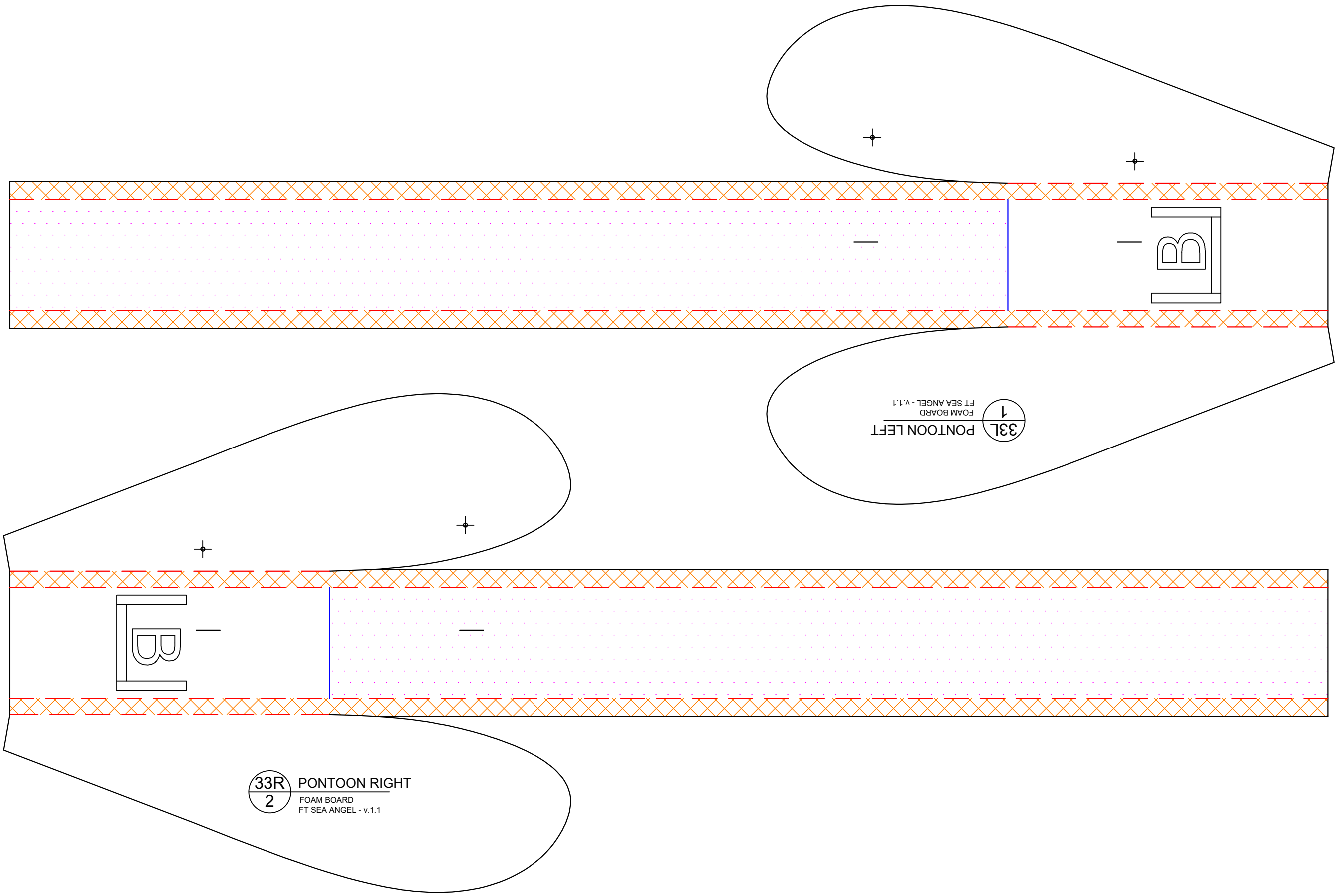


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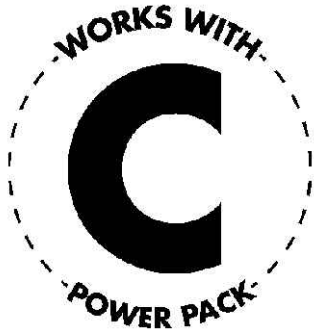
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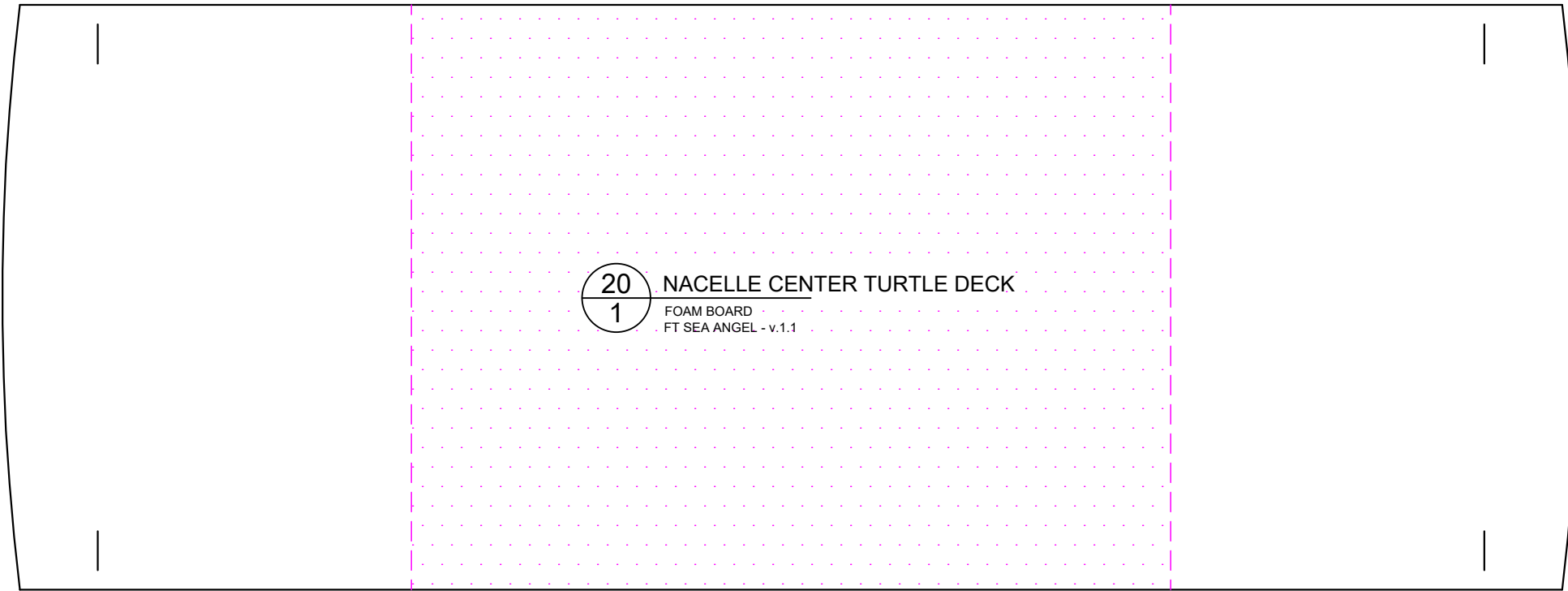


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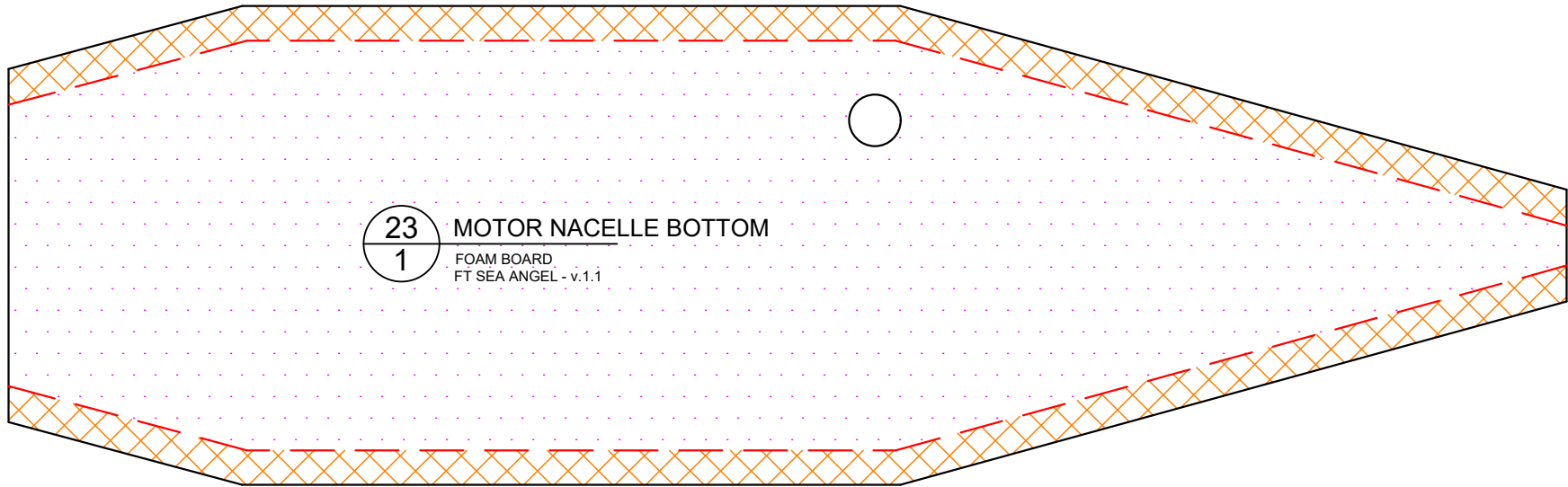
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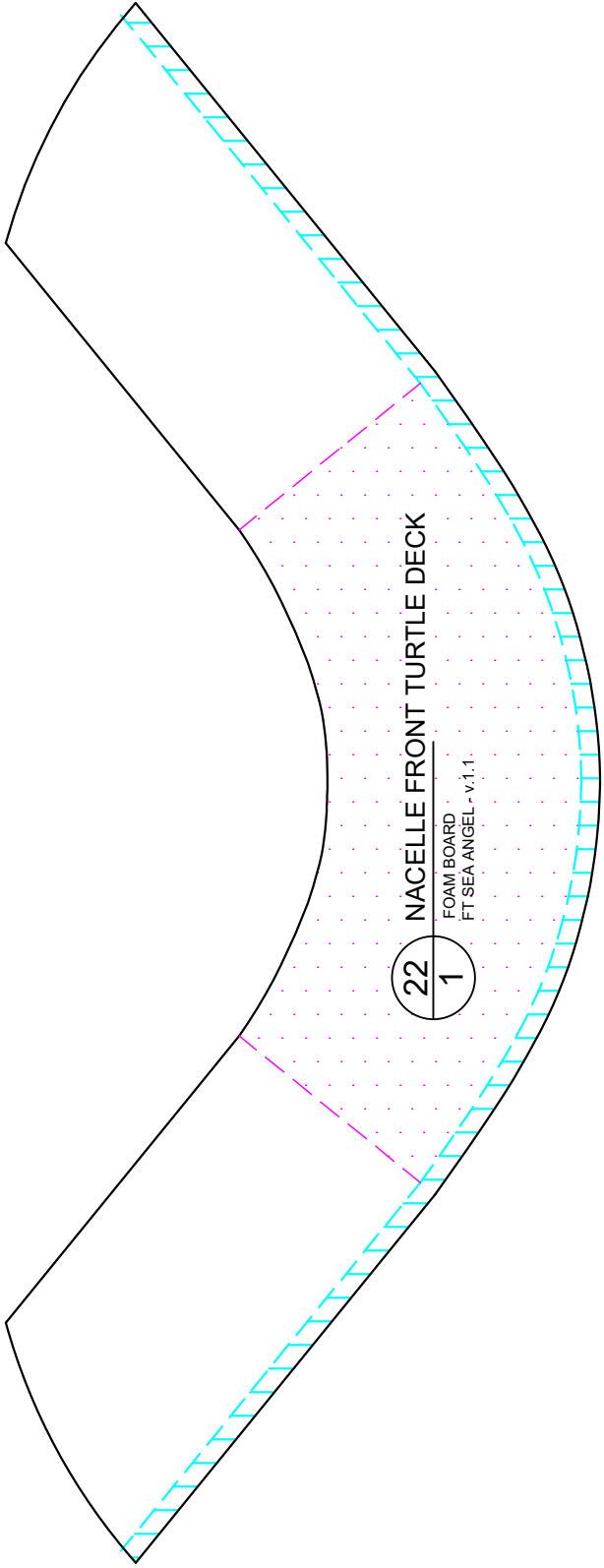
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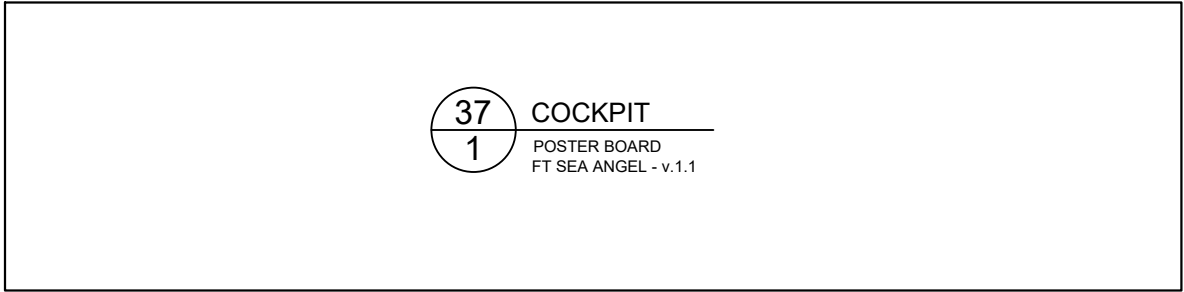
20 NACELLE CENTER TURTLE DECK  
FOAM BOARD  
FT SEA ANGEL - v.1.1



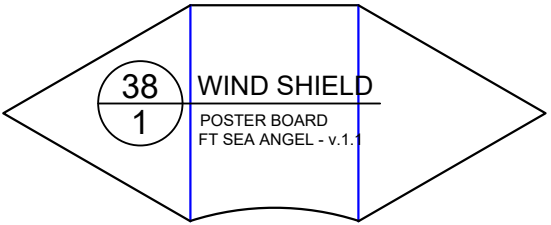
23 MOTOR NACELLE BOTTOM  
FOAM BOARD  
FT SEA ANGEL - v.1.1



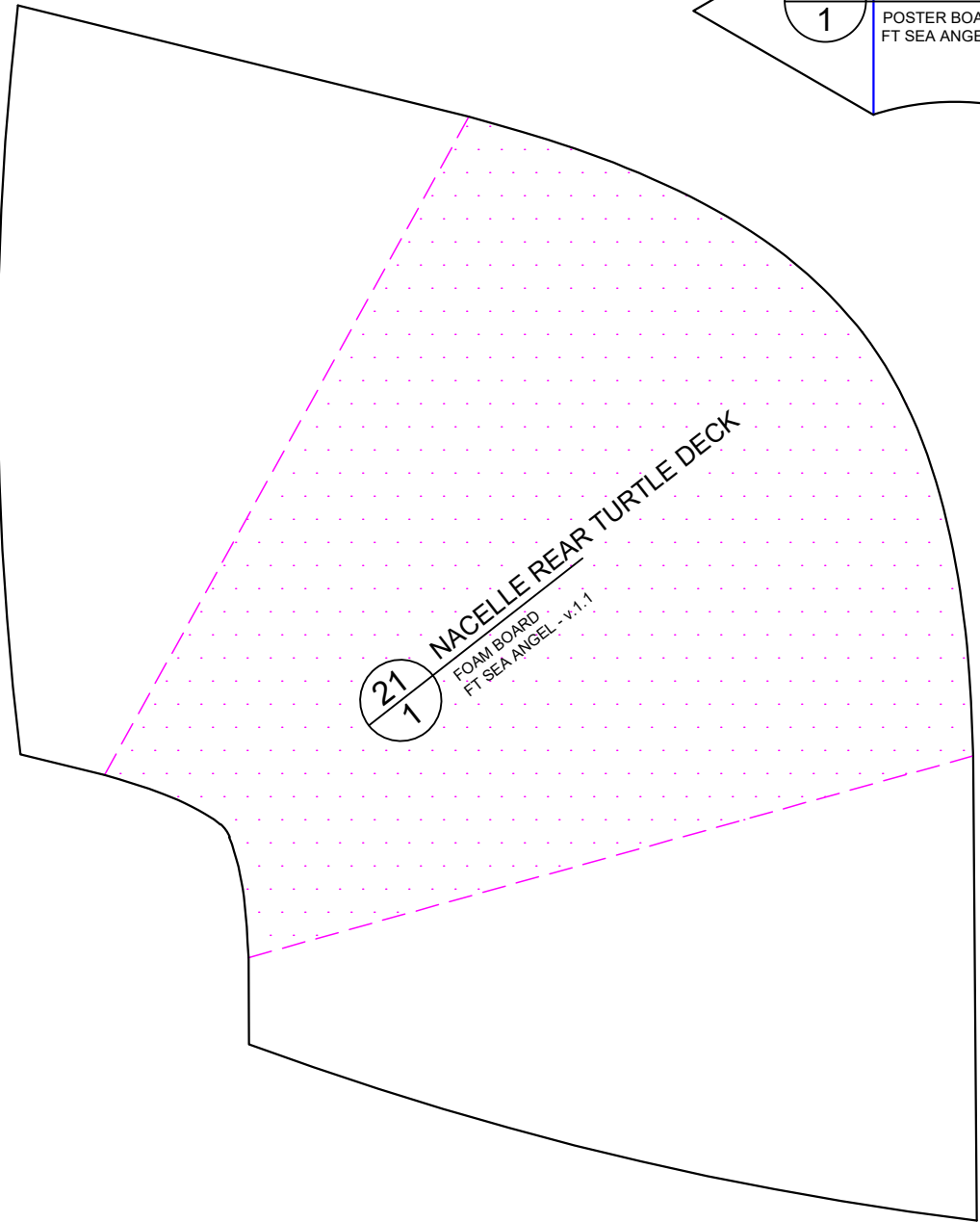
22 NACELLE FRONT TURTLE DECK  
FOAM BOARD  
FT SEA ANGEL - v.1.1



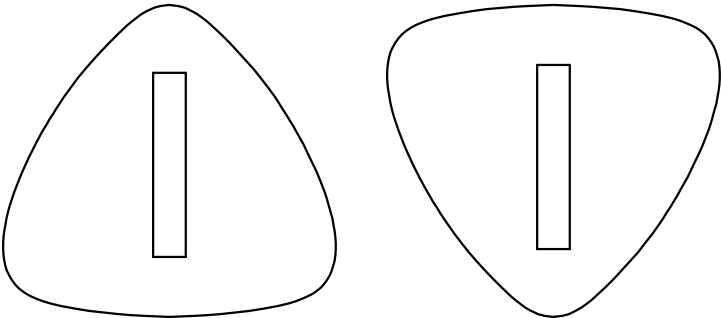
37 COCKPIT  
POSTER BOARD  
FT SEA ANGEL - v.1.1



38 WIND SHIELD  
POSTER BOARD  
FT SEA ANGEL - v.1.1



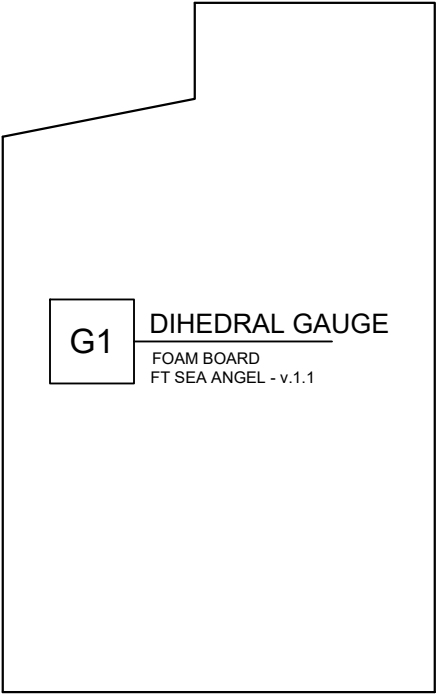
21 NACELLE REAR TURTLE DECK  
FOAM BOARD  
FT SEA ANGEL - v.1.1



39  
2

INSIDE RADIATOR FINS

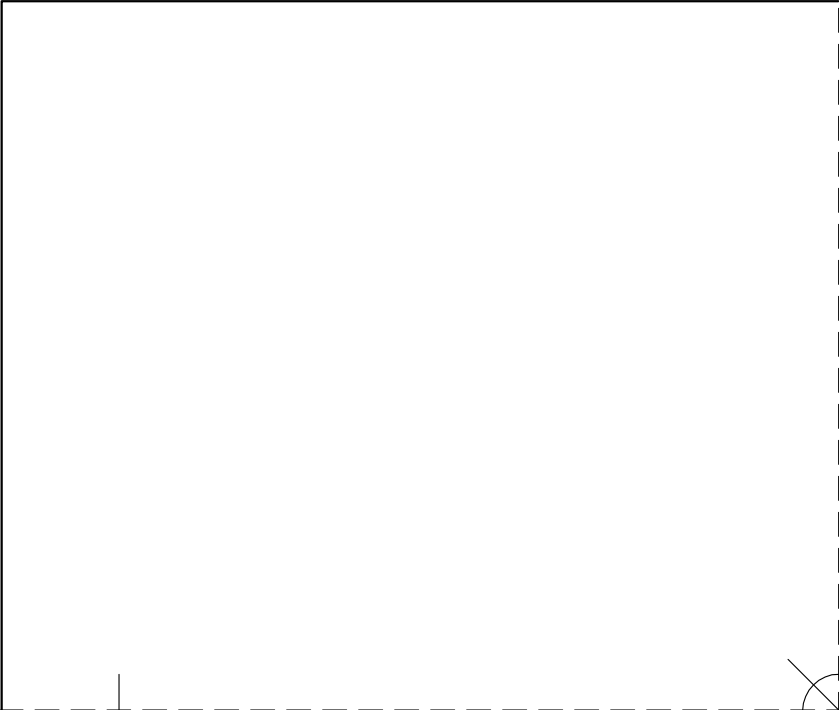
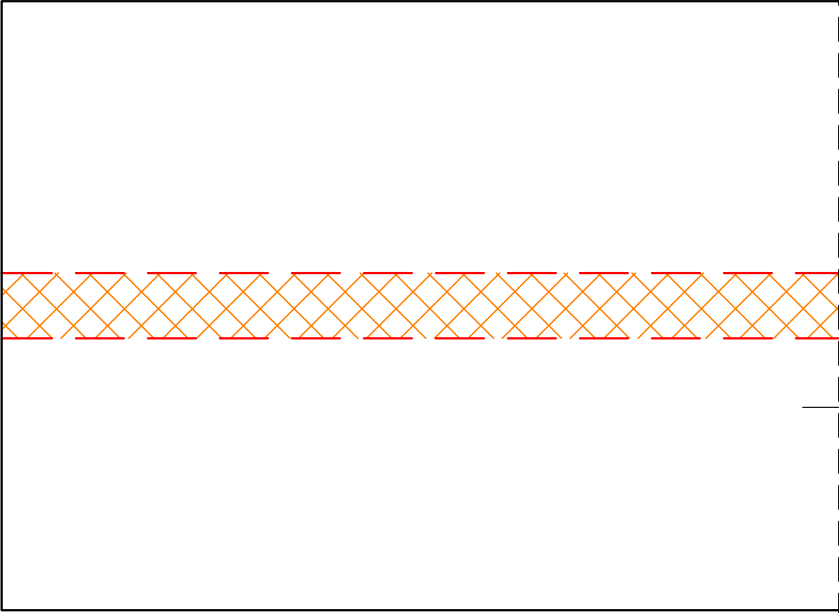
FOAM BOARD  
FT SEA ANGEL - v.1.1



G1

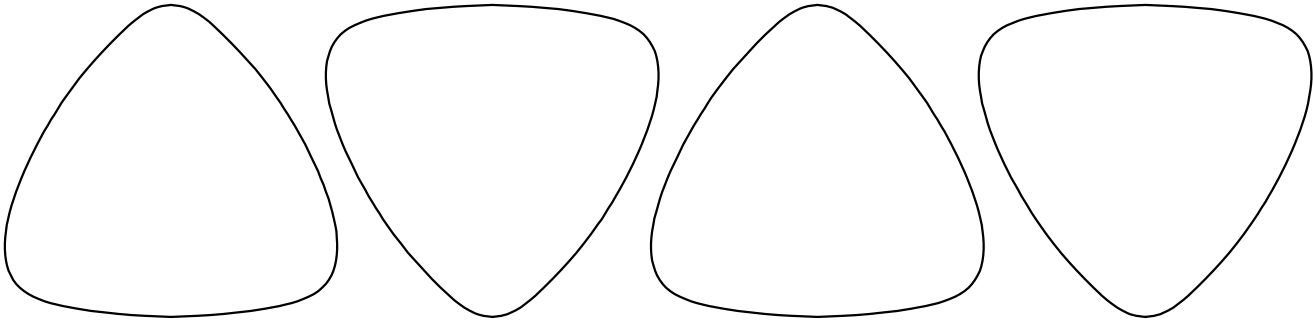
DIHEDRAL GAUGE

FOAM BOARD  
FT SEA ANGEL - v.1.1





IN  
CM



40  
4

OUTSIDE RADIATOR FINS

FOAM BOARD  
FT SEA ANGEL - v.1.1



12  
1

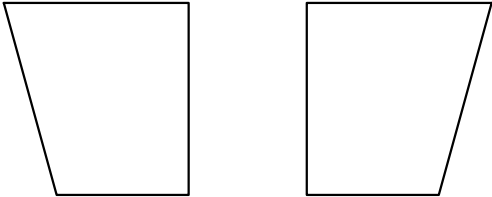
RIGHT SPAR

FOAM BOARD  
FT SEA ANGEL - v.1.1





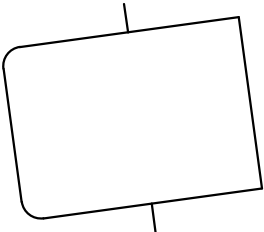
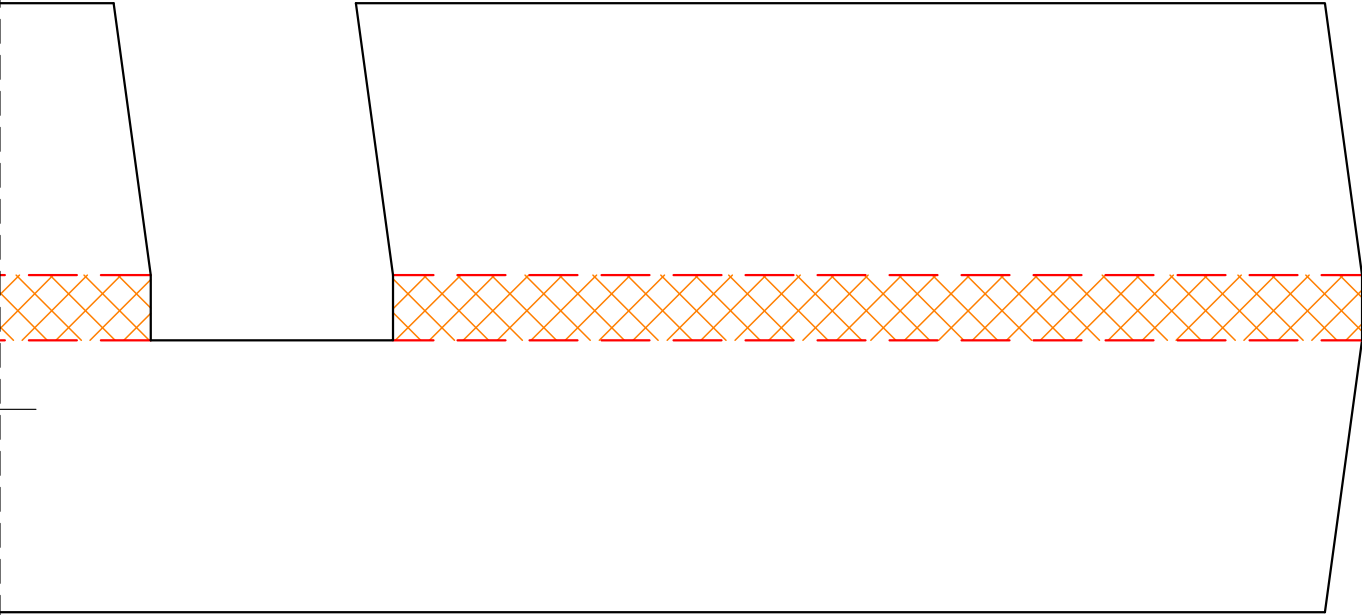
IN  
CM



41  
2

**RADIATOR SUPPORTS**

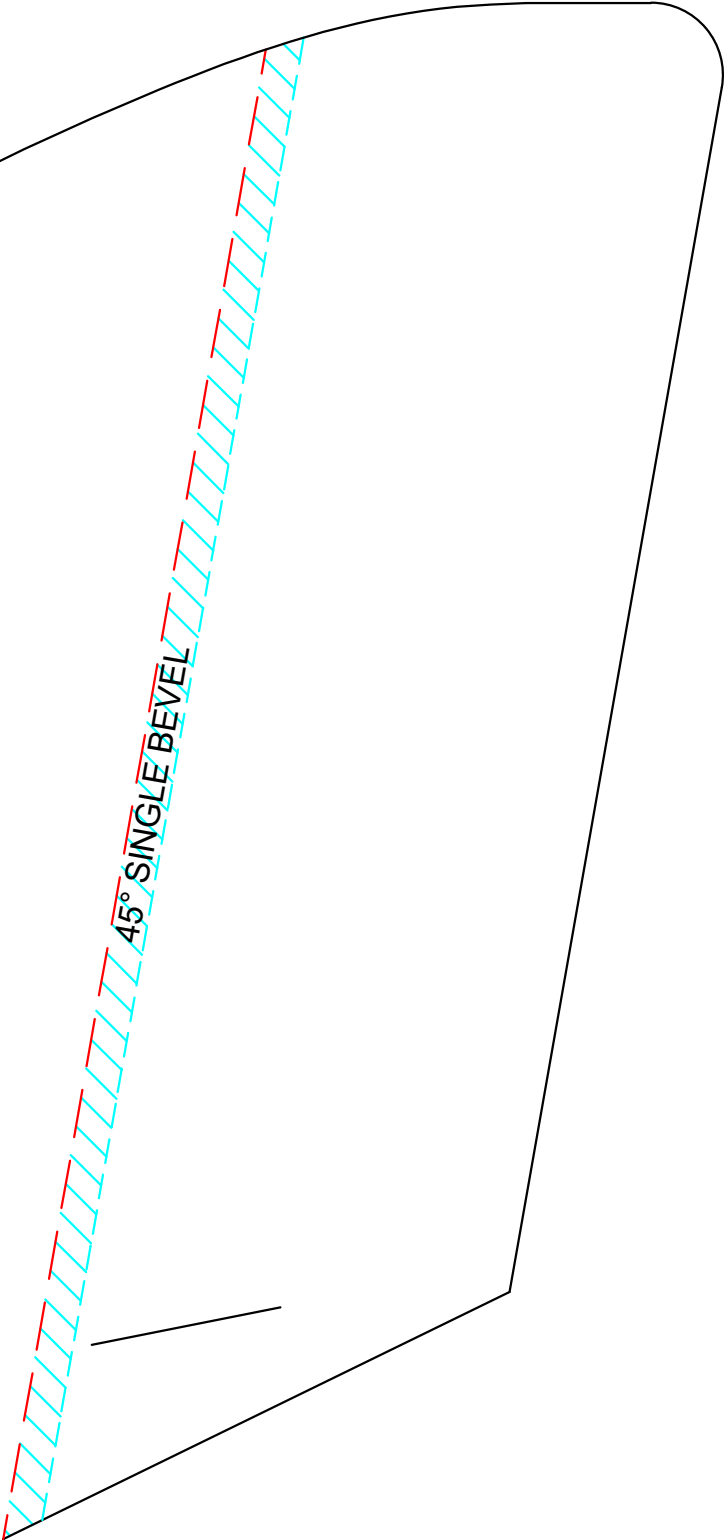
FOAM BOARD  
FT SEA ANGEL - v.1.1



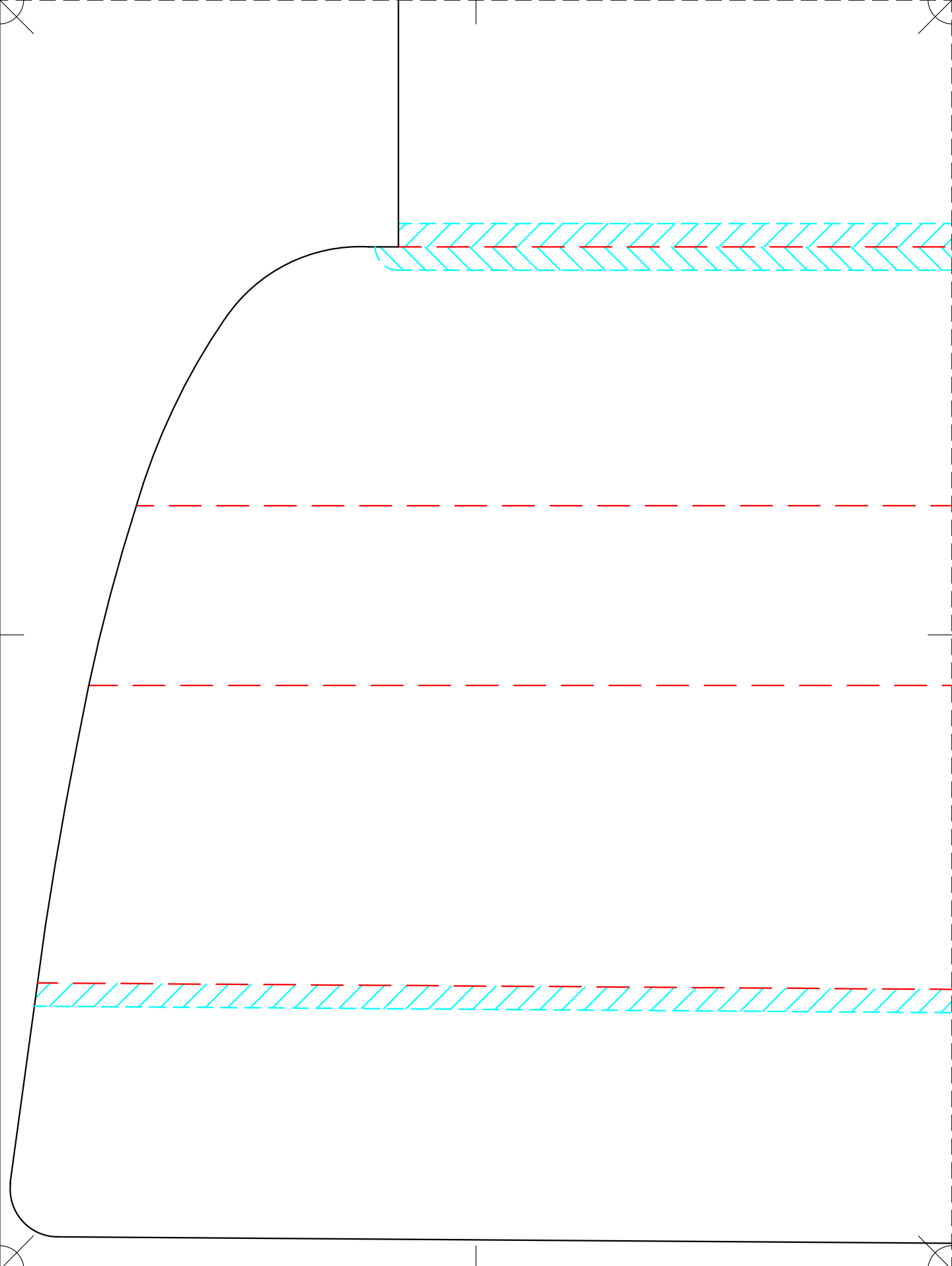


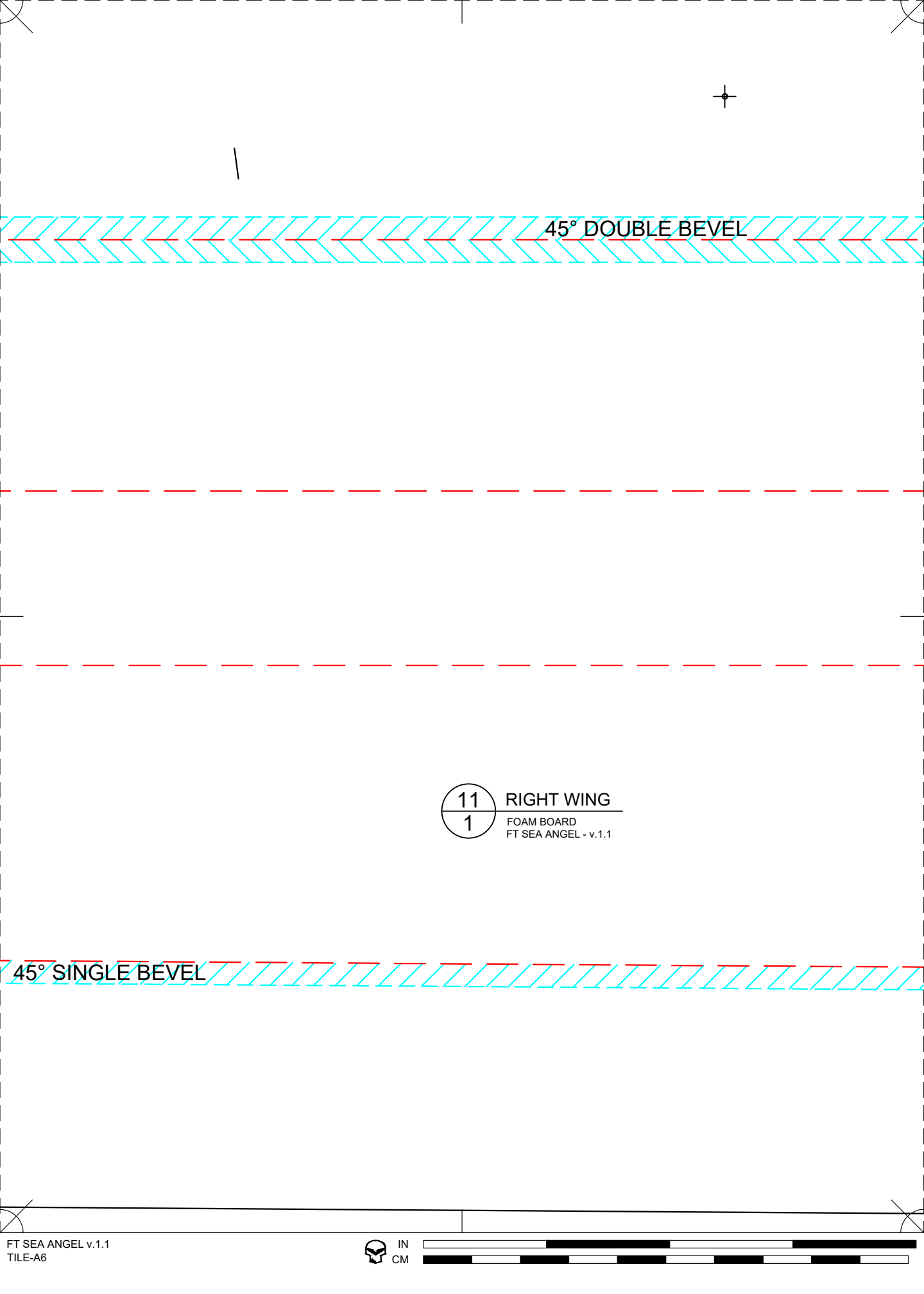
10 HORIZONTAL STABILIZER  
1 FOAM BOARD  
FT SEA ANGEL - v.1.1

45° SINGLE BEVEL









45° DOUBLE BEVEL

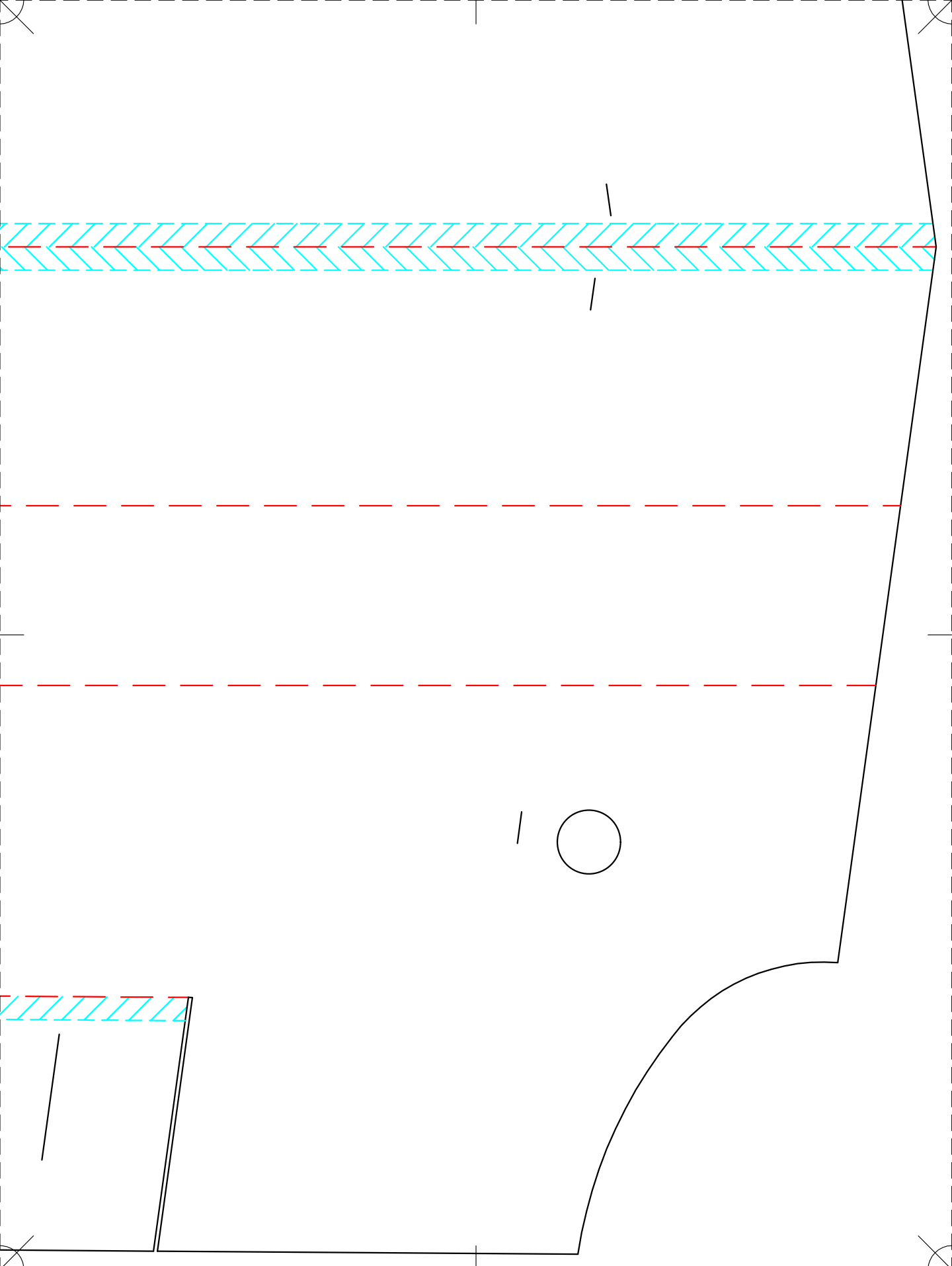


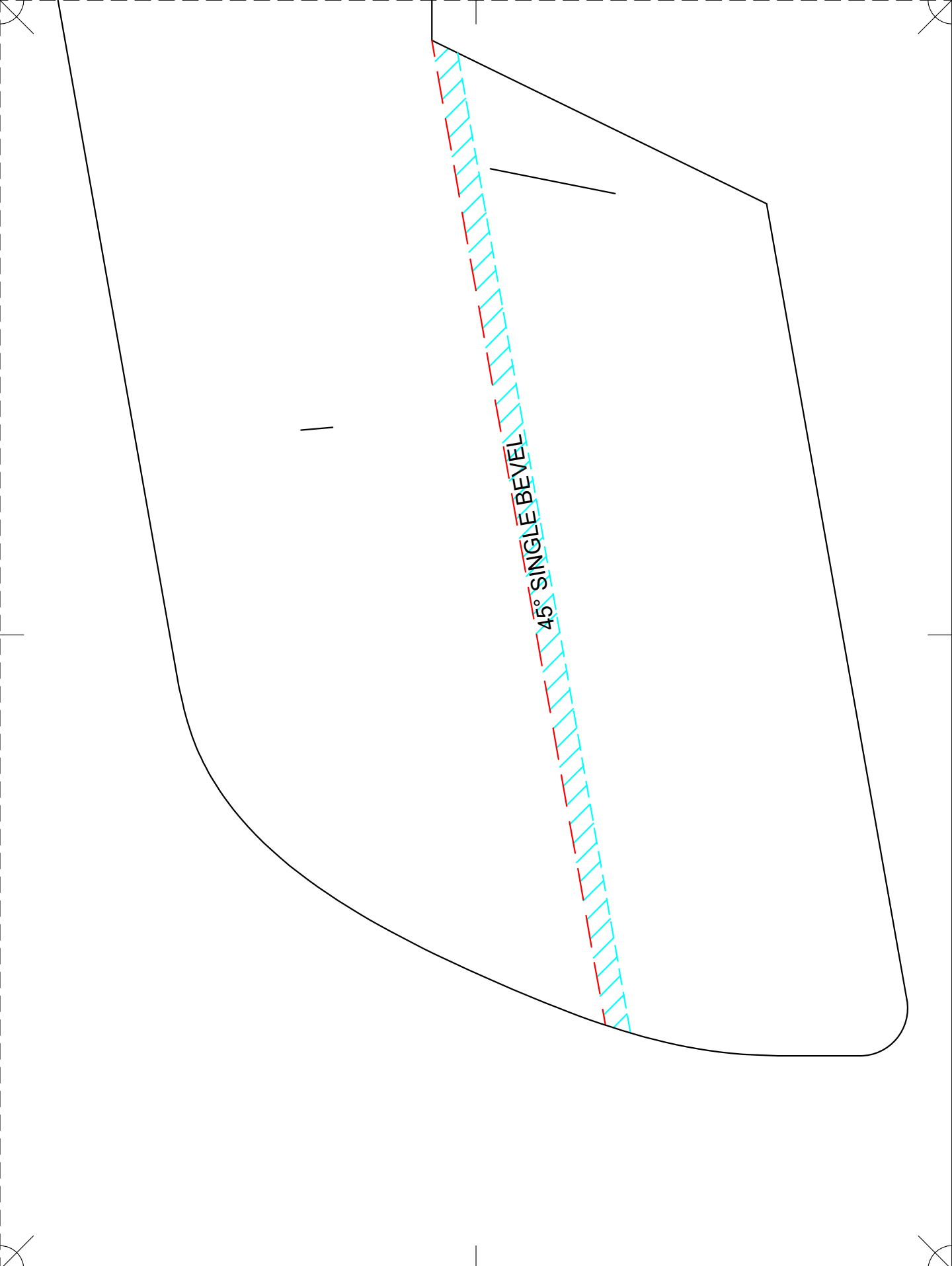
RIGHT WING

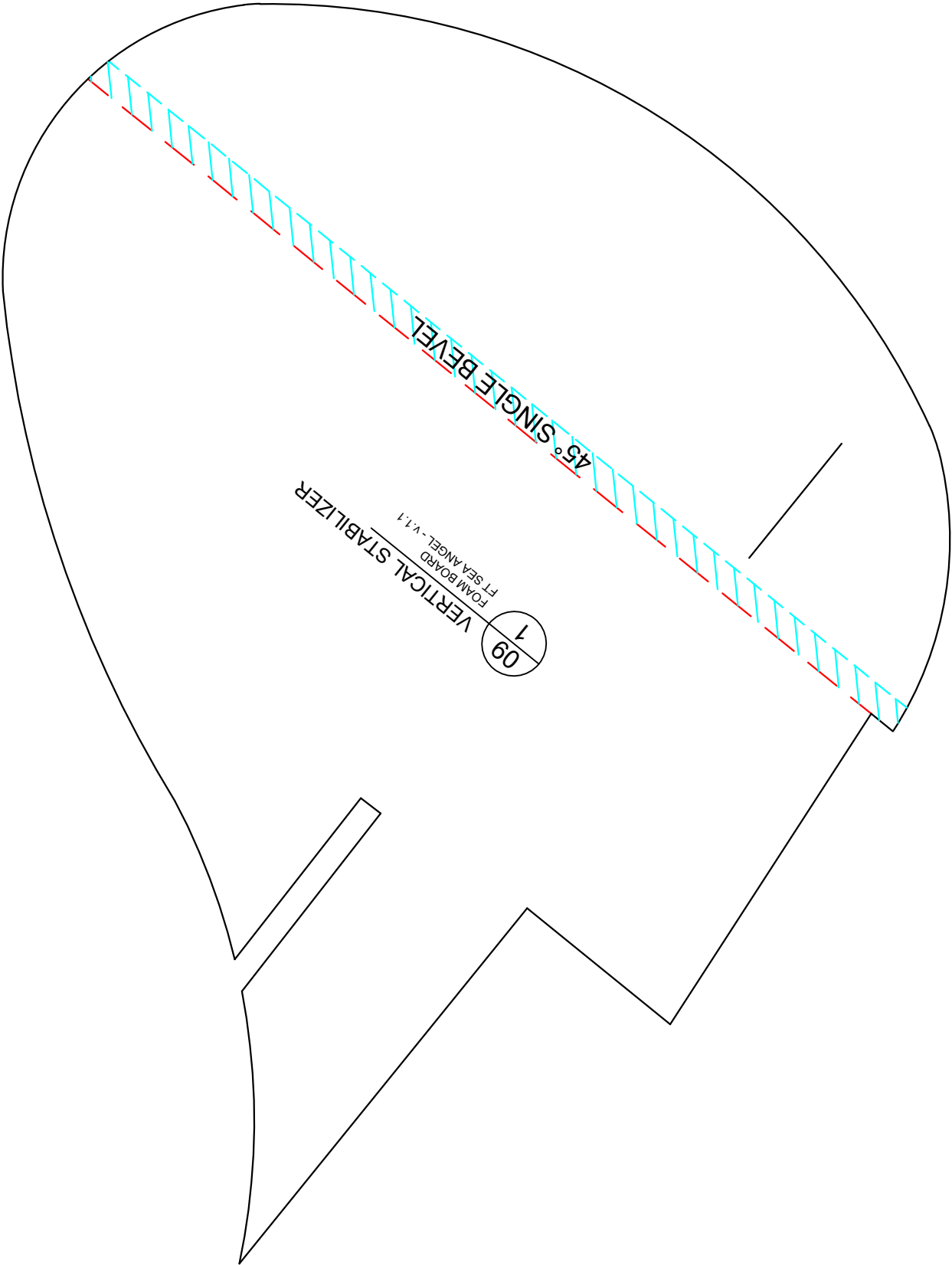
FOAM BOARD  
FT SEA ANGEL - v.1.1

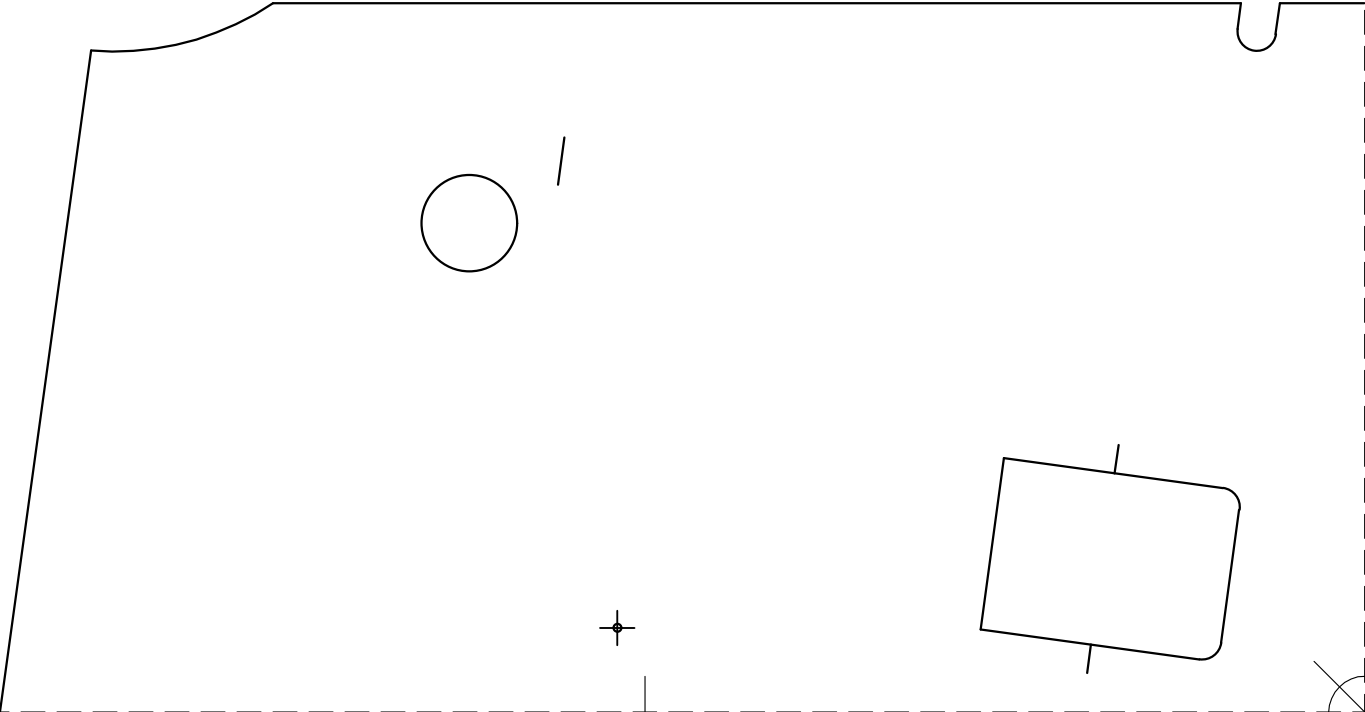
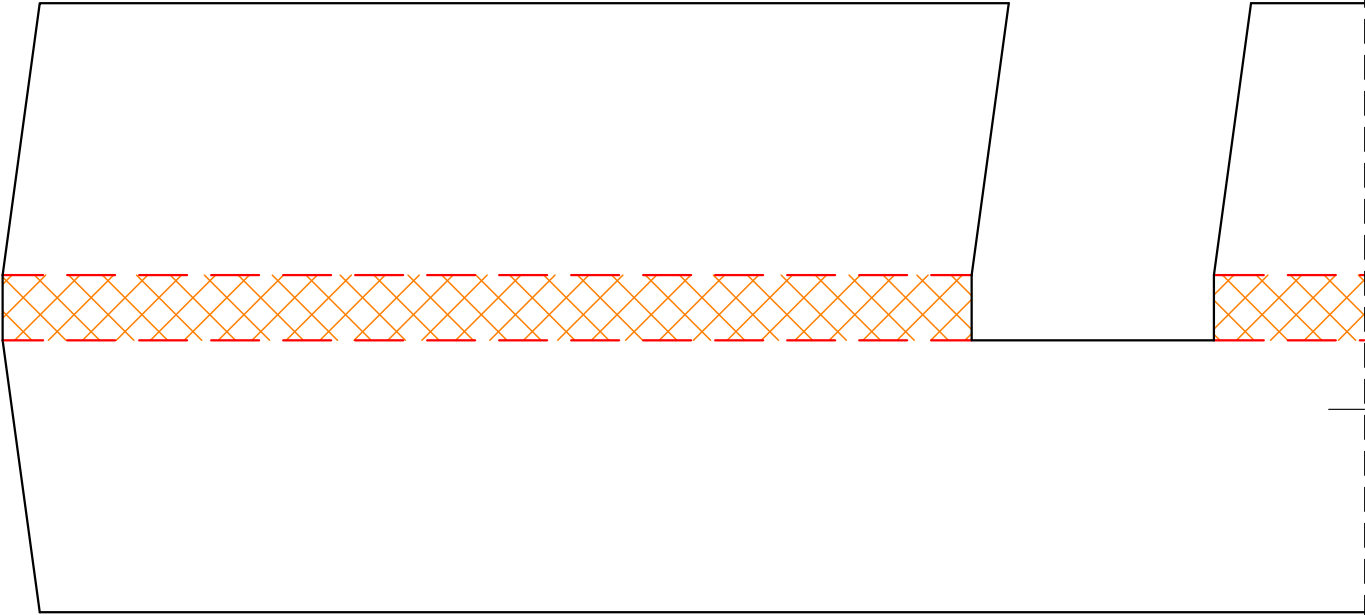
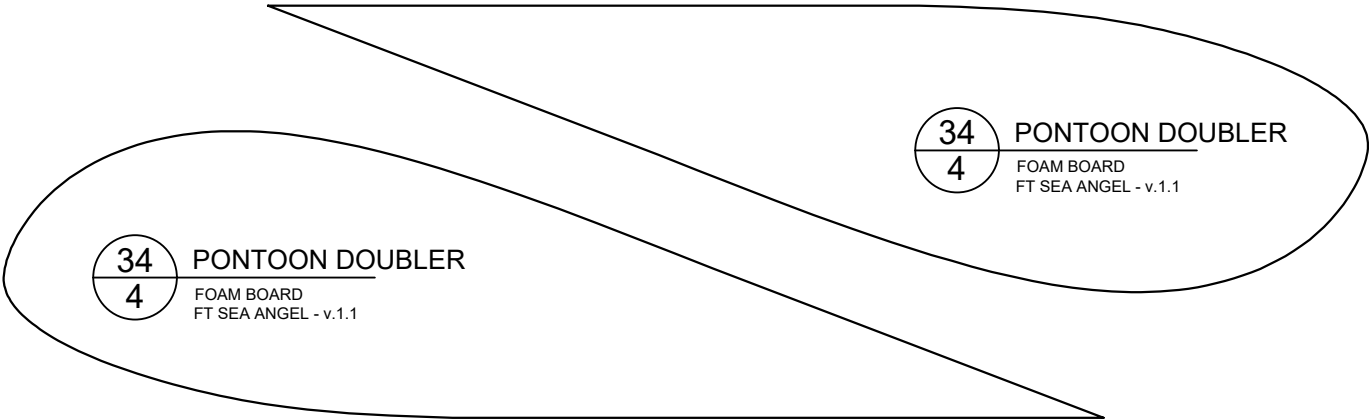
45° SINGLE BEVEL

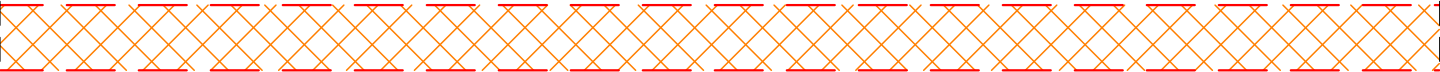
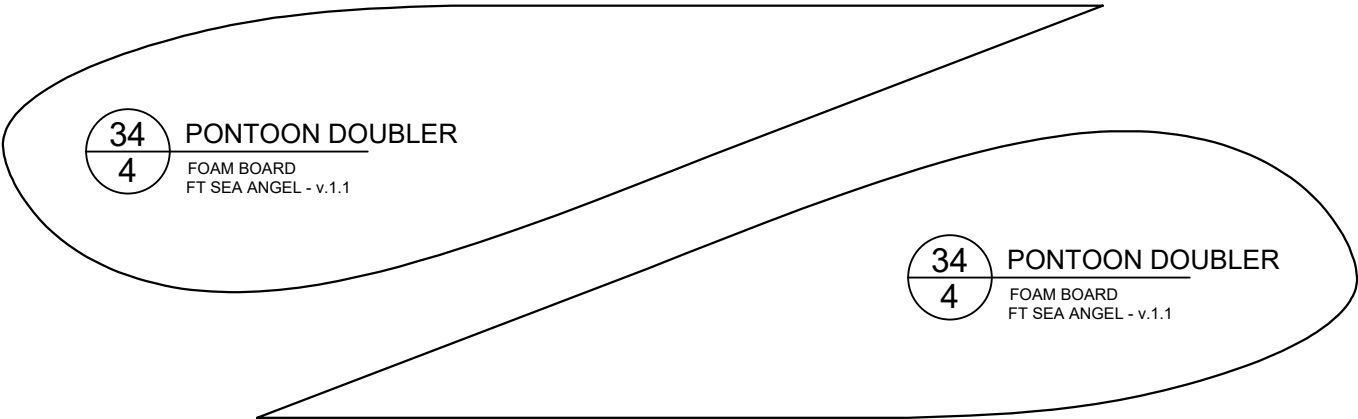








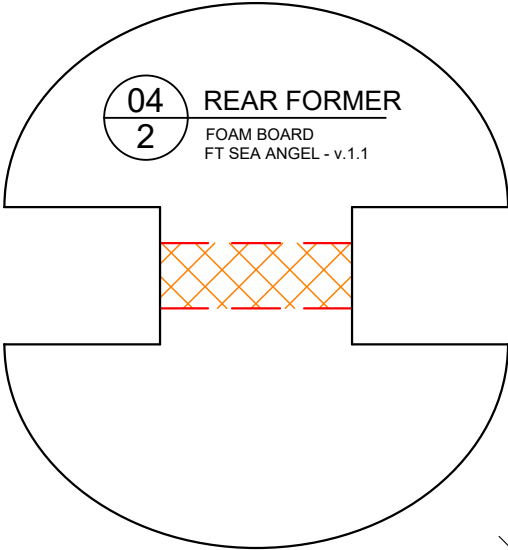
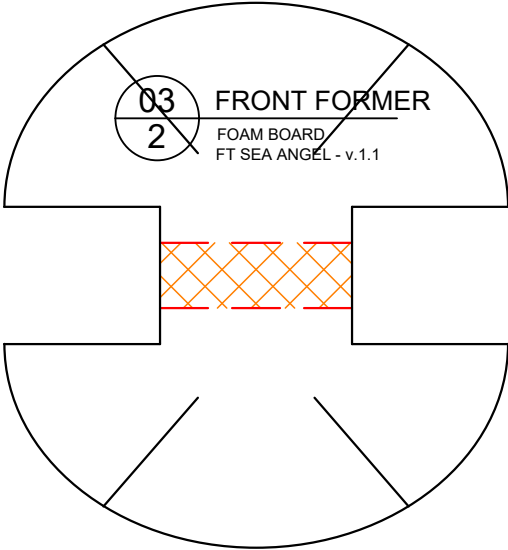
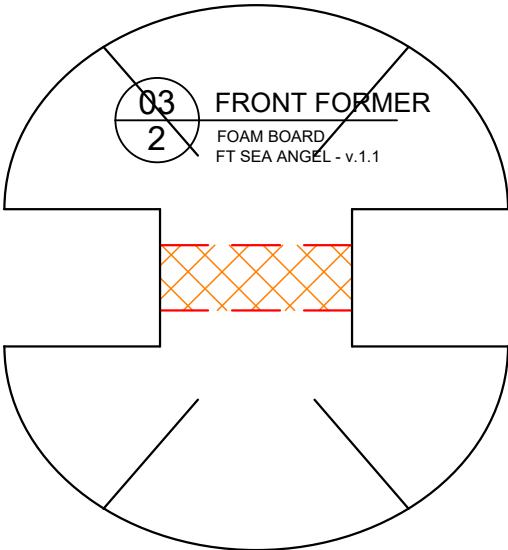
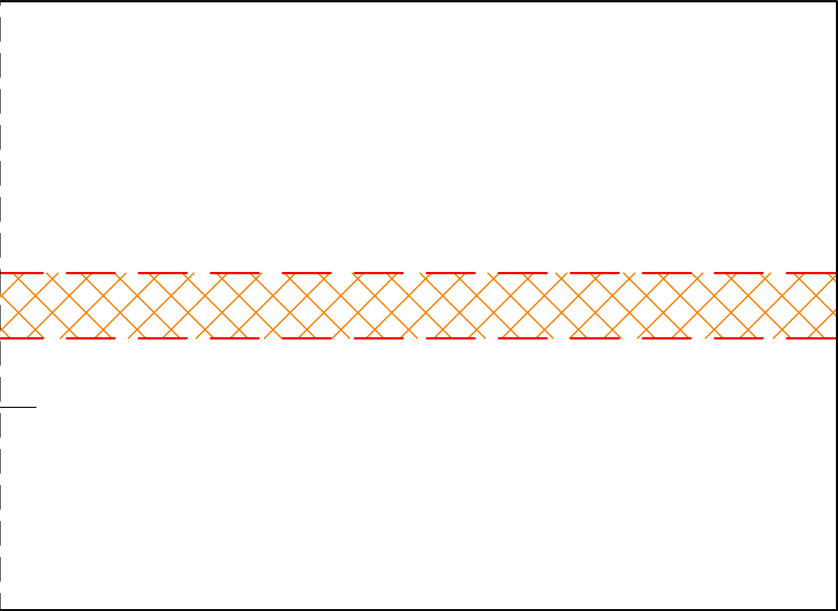


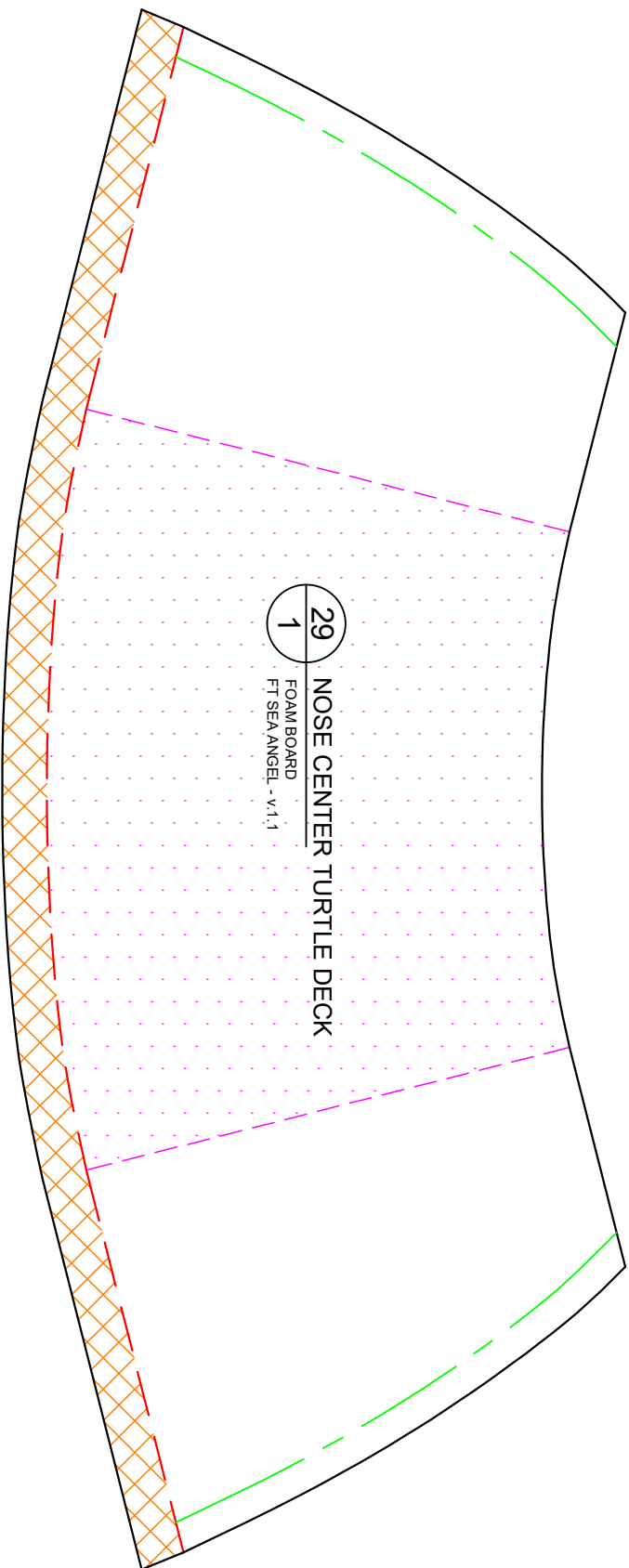
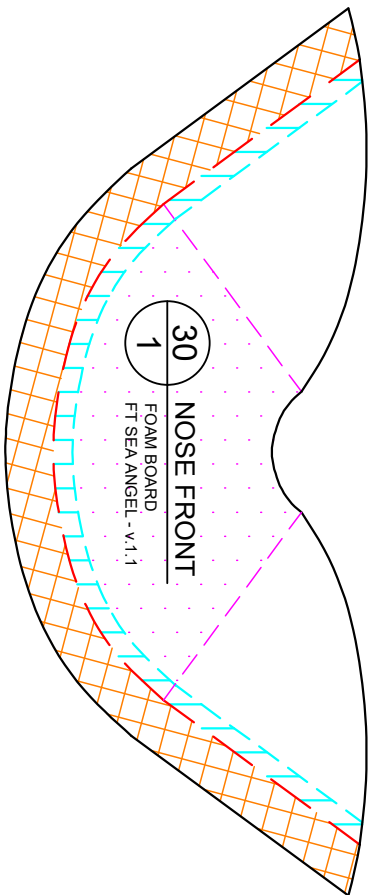


14 LEFT SPAR  
1 FOAM BOARD  
FT SEA ANGEL - v.1.1



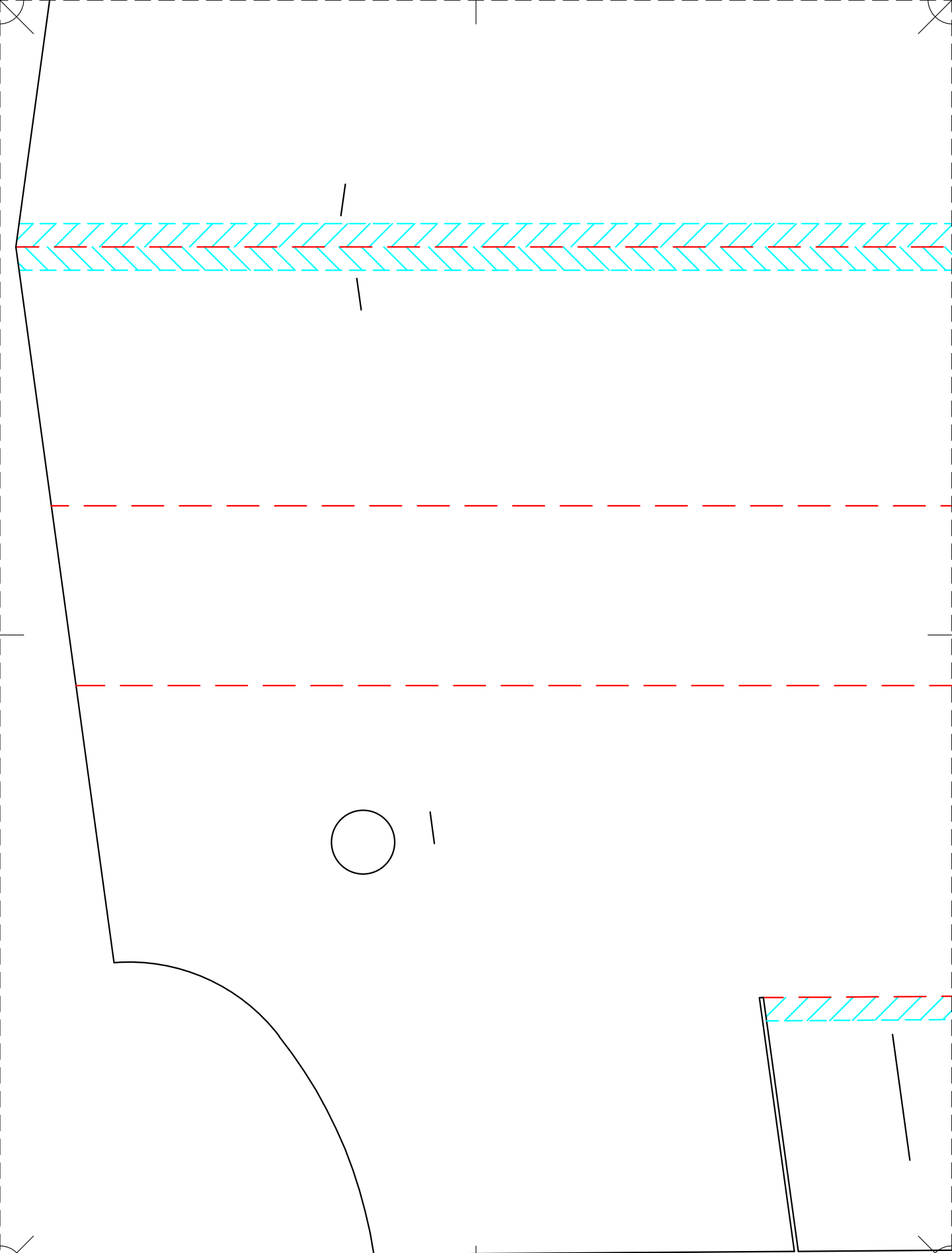






IN  
CM

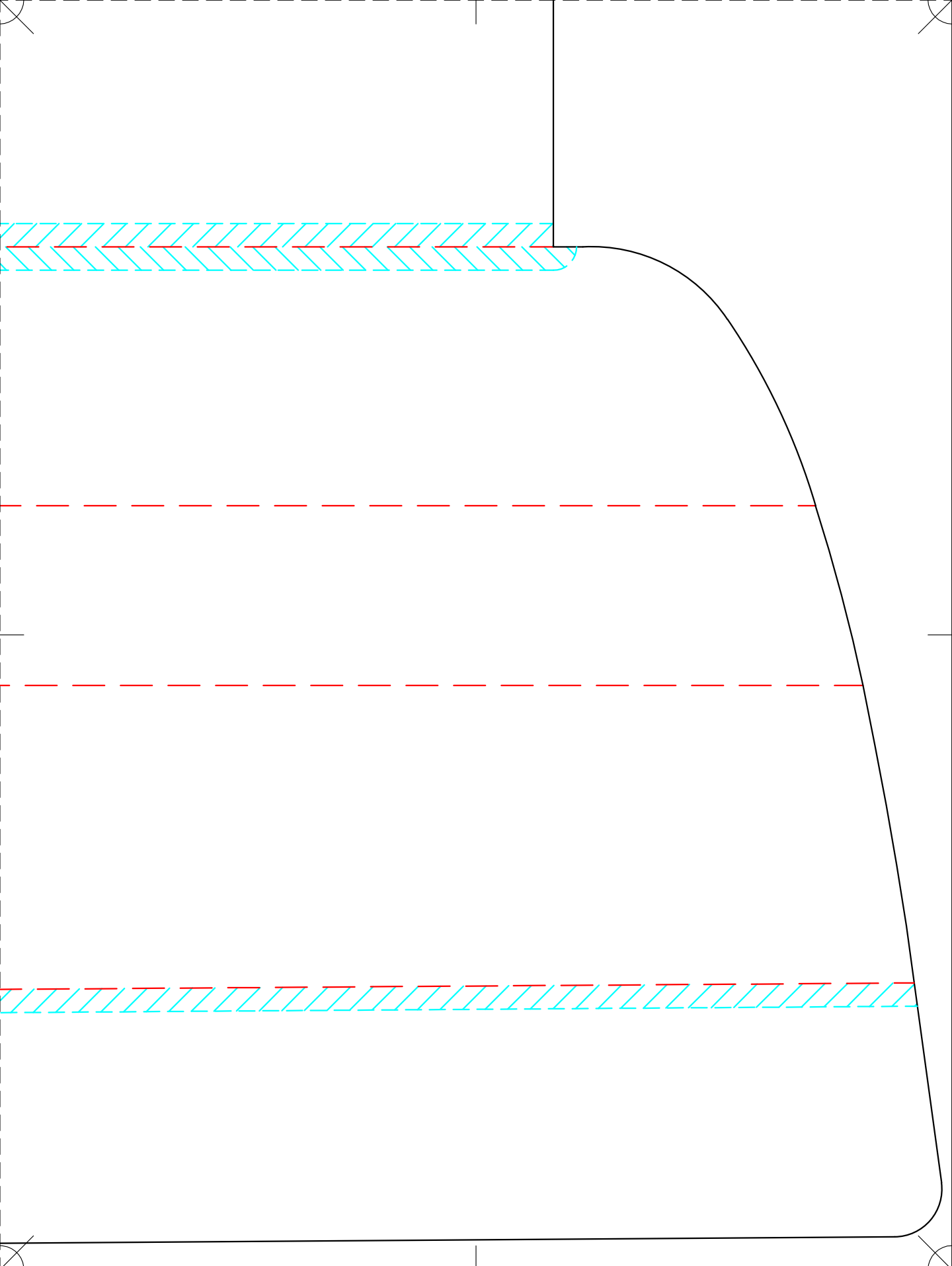




45° DOUBLE BEVEL

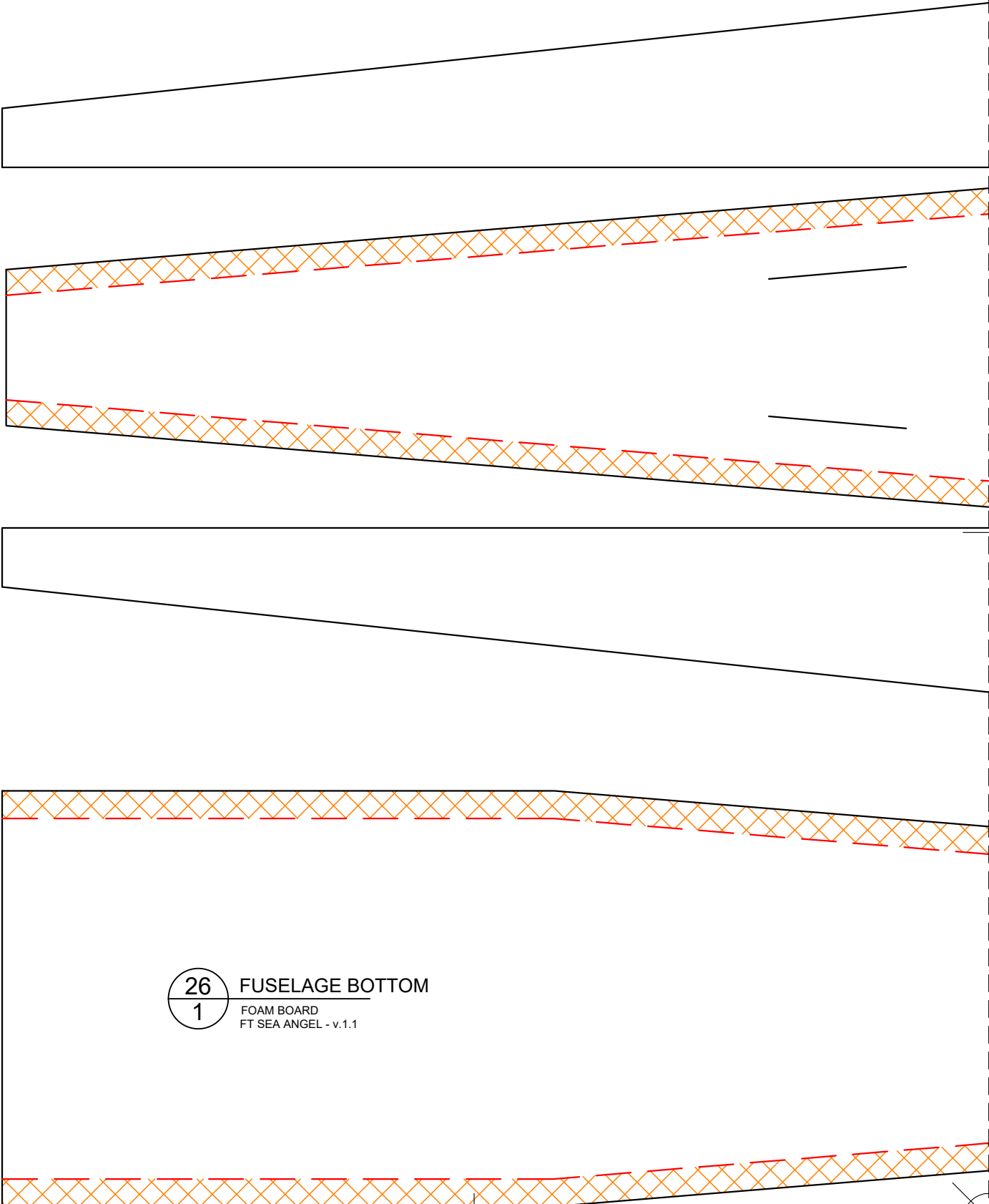
13  
1 LEFT WING  
FOAM BOARD  
FT SEA ANGEL - v.1.1

45° SINGLE BEVEL





IN  
CM



26  
1

FUSELAGE BOTTOM

FOAM BOARD  
FT SEA ANGEL - v.1.1



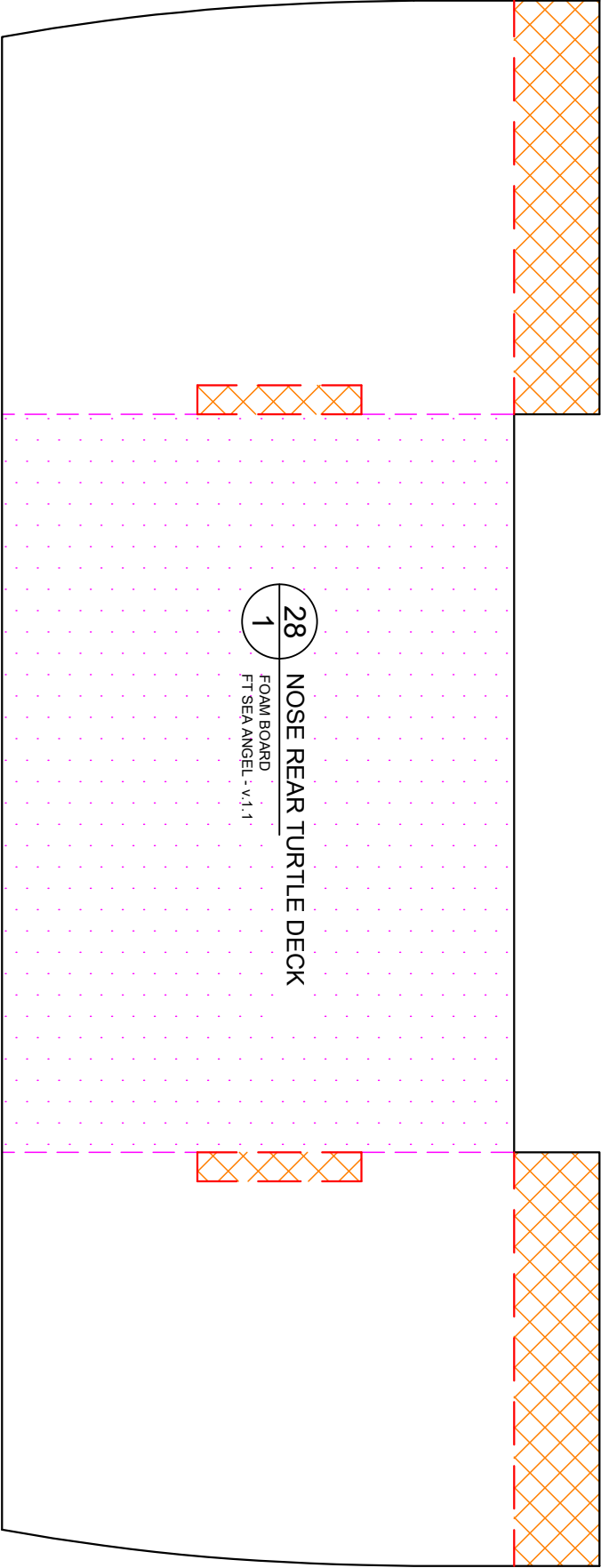
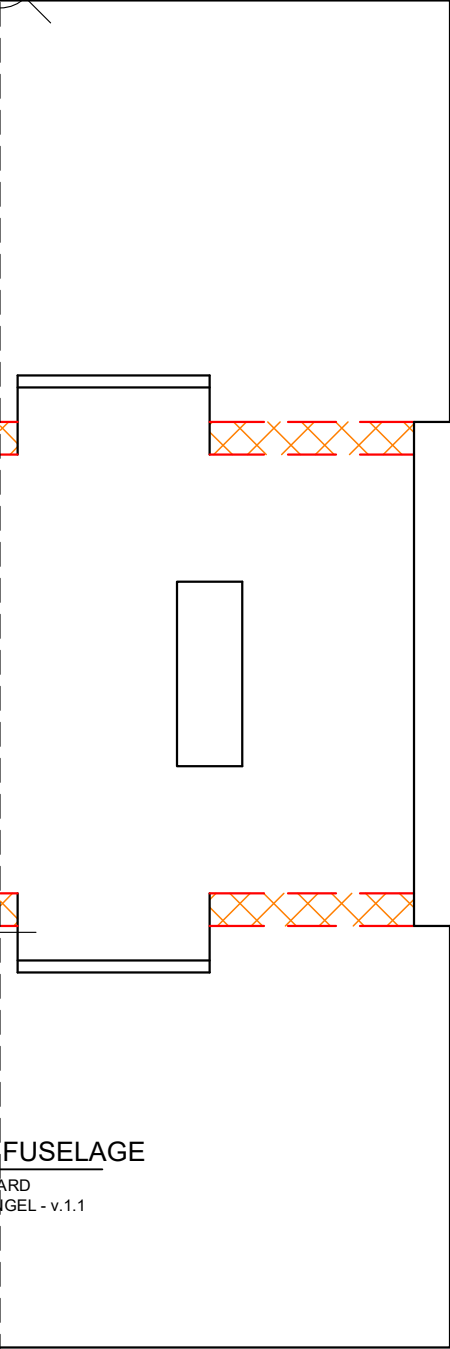




FUSELAGE

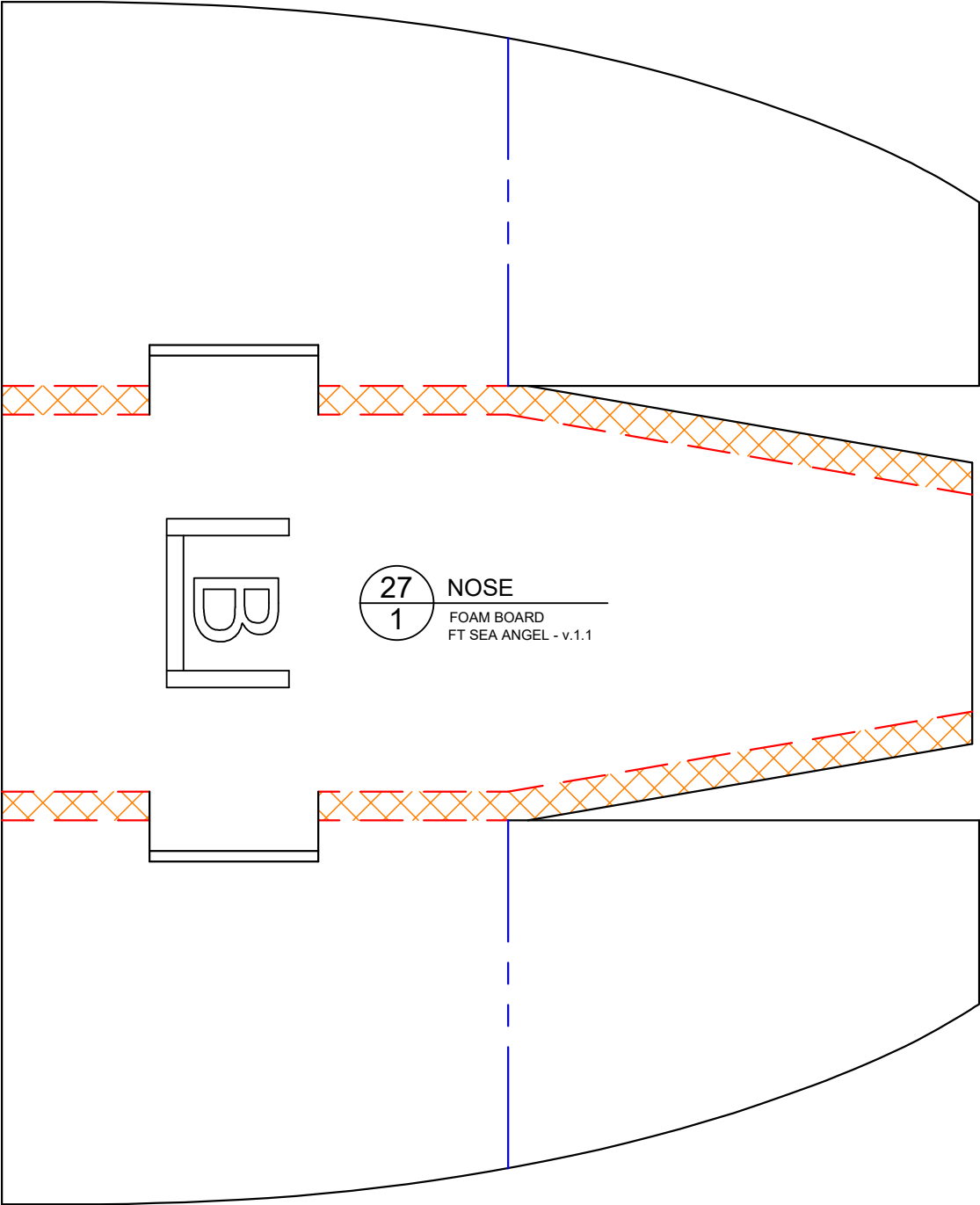
ARD  
GEL - v.1.1

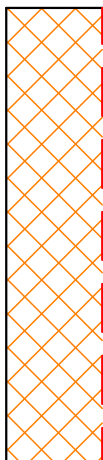
28  
1  
FOAM BOARD  
FT SEA ANGEL - v.1.1  
NOSE REAR TURTLE DECK





IN  
CM



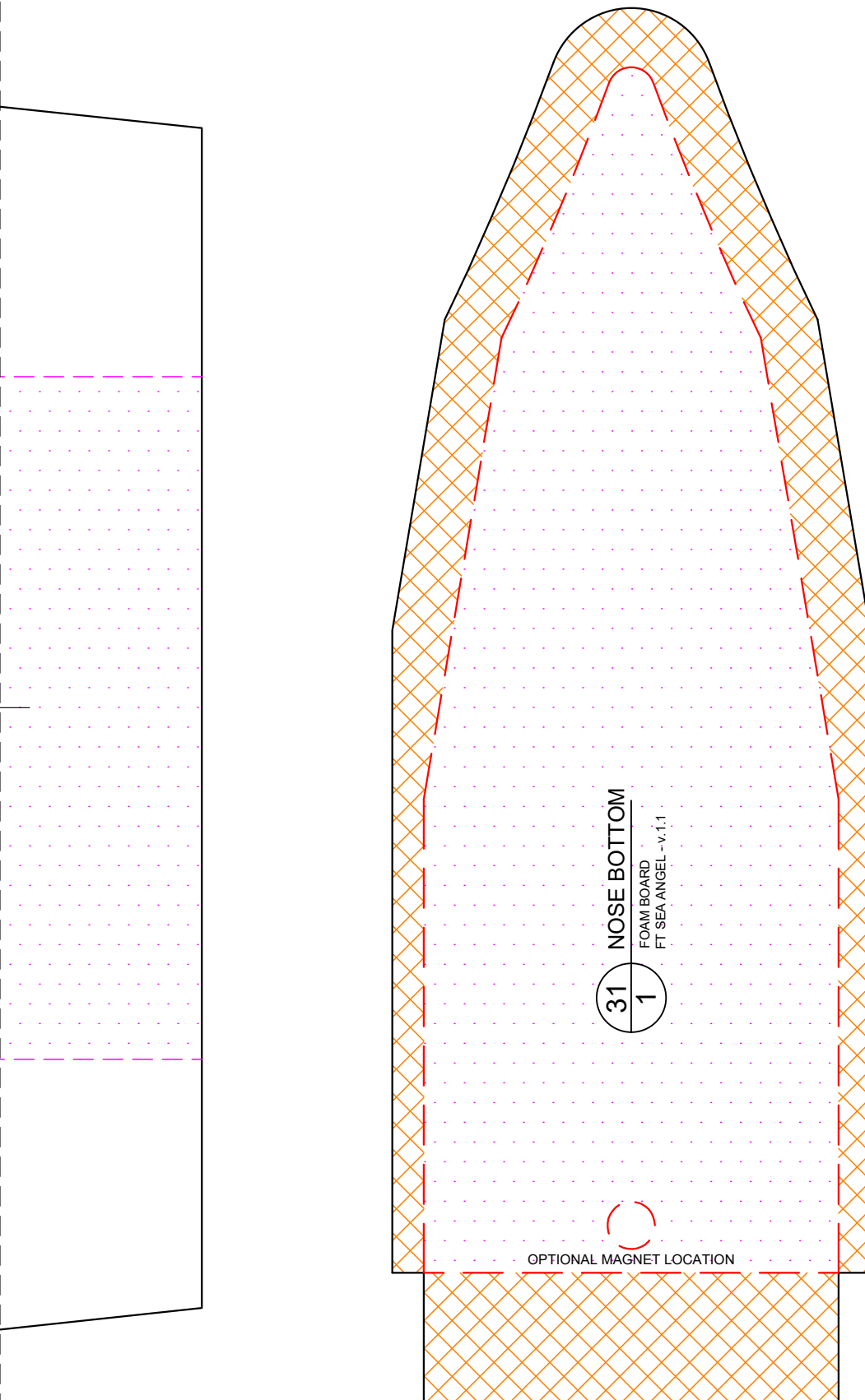


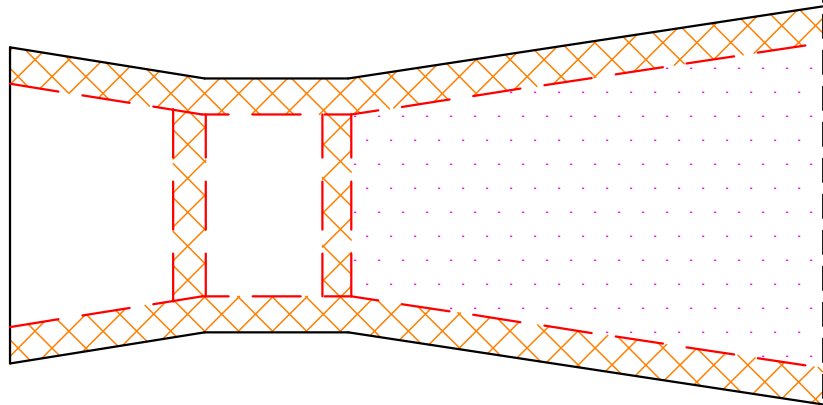
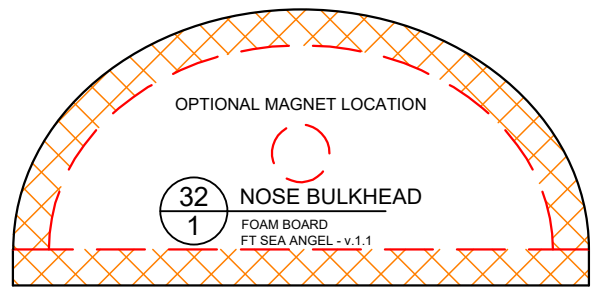
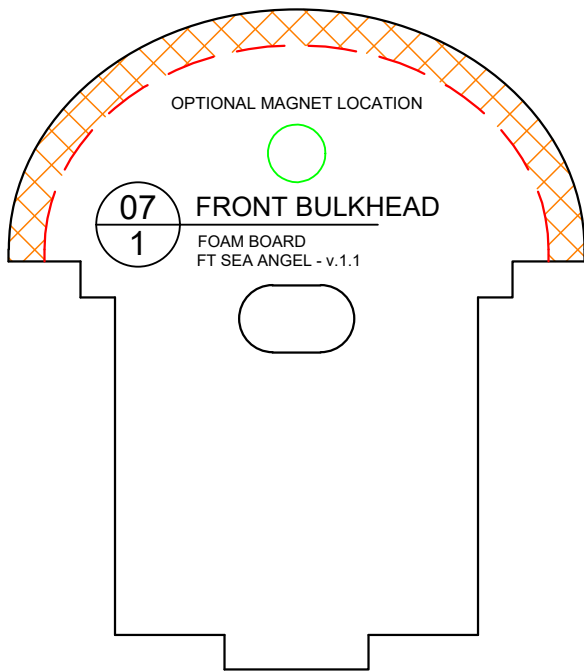
05  
1

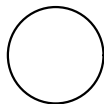
## FRONT TURTLE DECK

FOAM BOARD  
FT SEA ANGEL - v.1.1









08  
1

## REAR BULKHEAD / STEP

FOAM BOARD  
FT SEA ANGEL - v.1.1

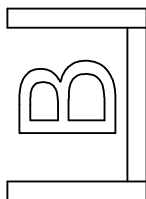


02  
1

## FRONT FUSELAGE

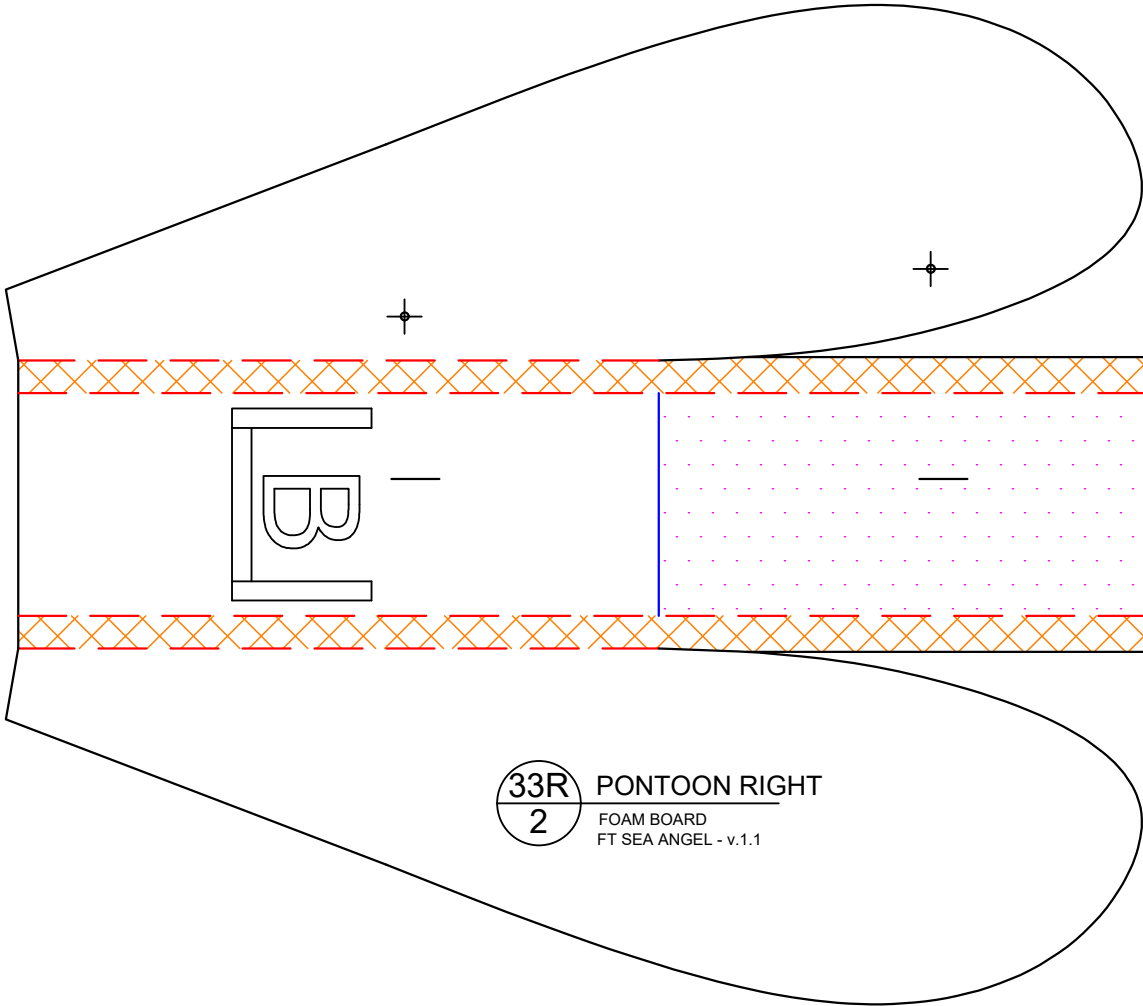
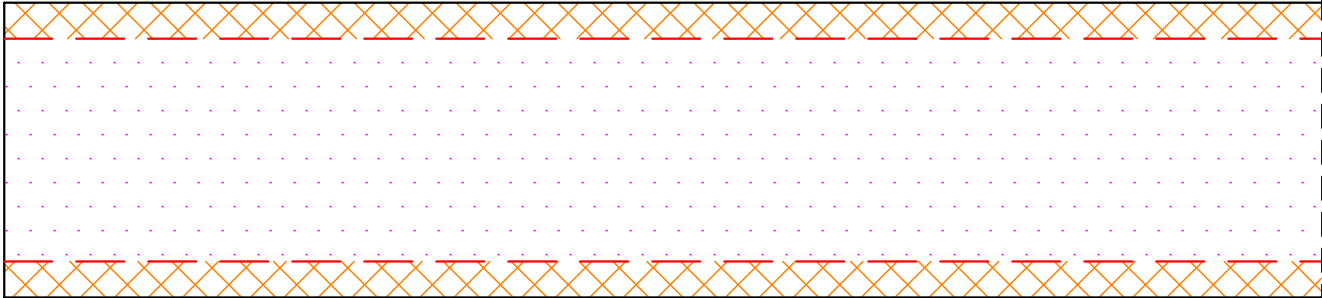
FOAM BOARD  
FT SEA ANGEL - v.1.1

OPTIONAL MAGNET LOCATION





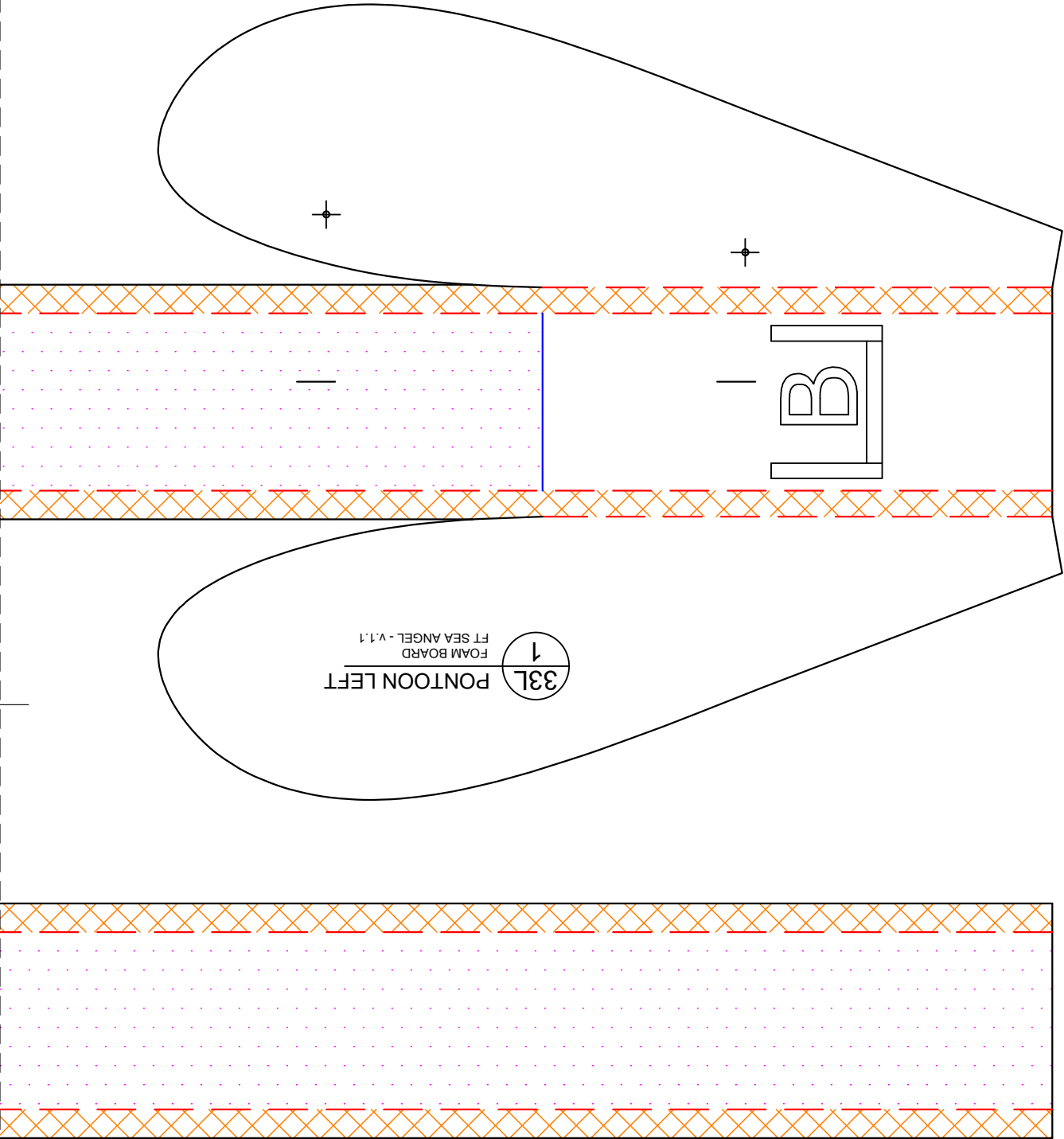
IN  
CM



33R  
2

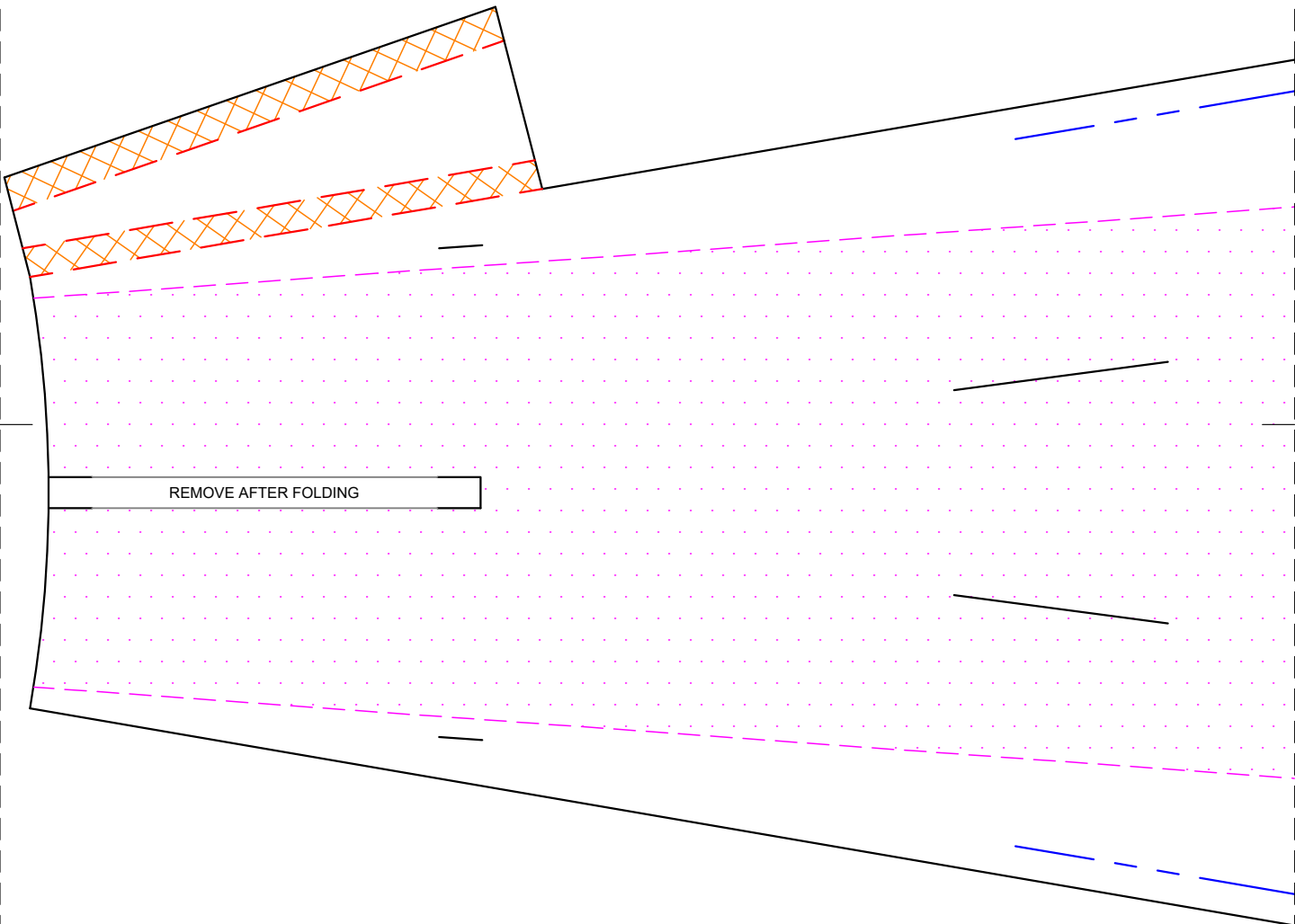
PONTOON RIGHT  
FOAM BOARD  
FT SEA ANGEL - v.1.1







IN  
CM





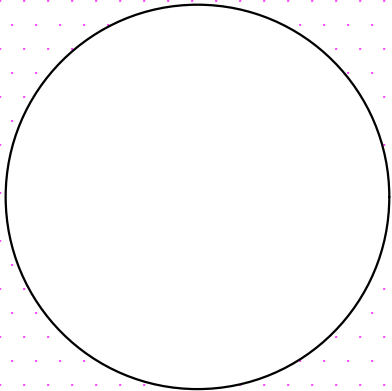
IN  
CM

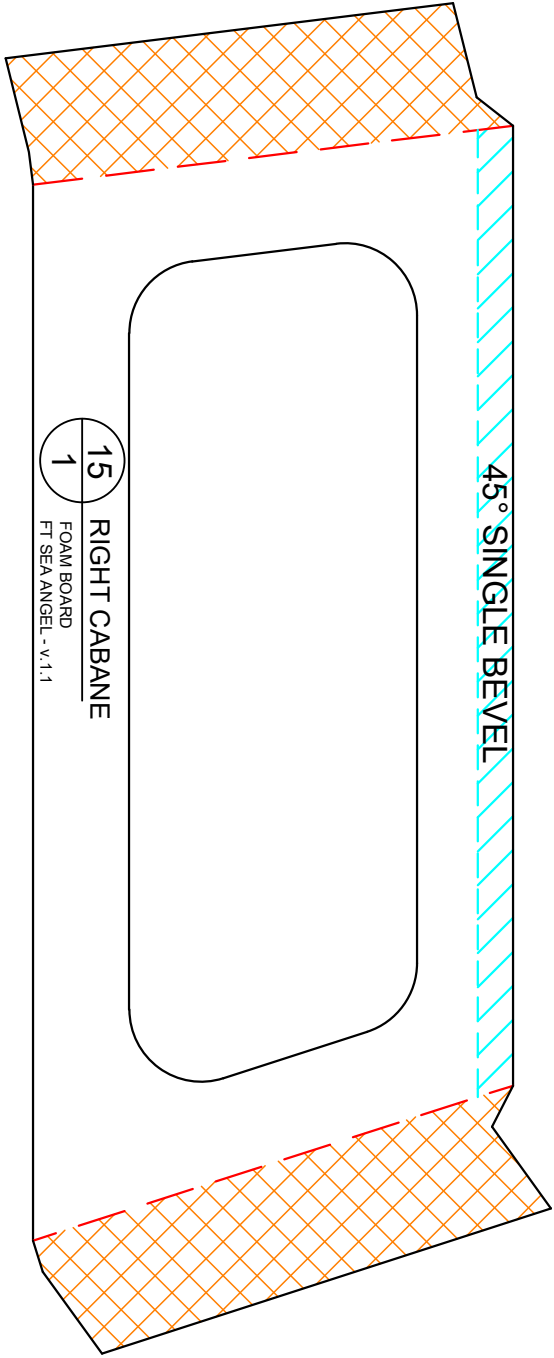
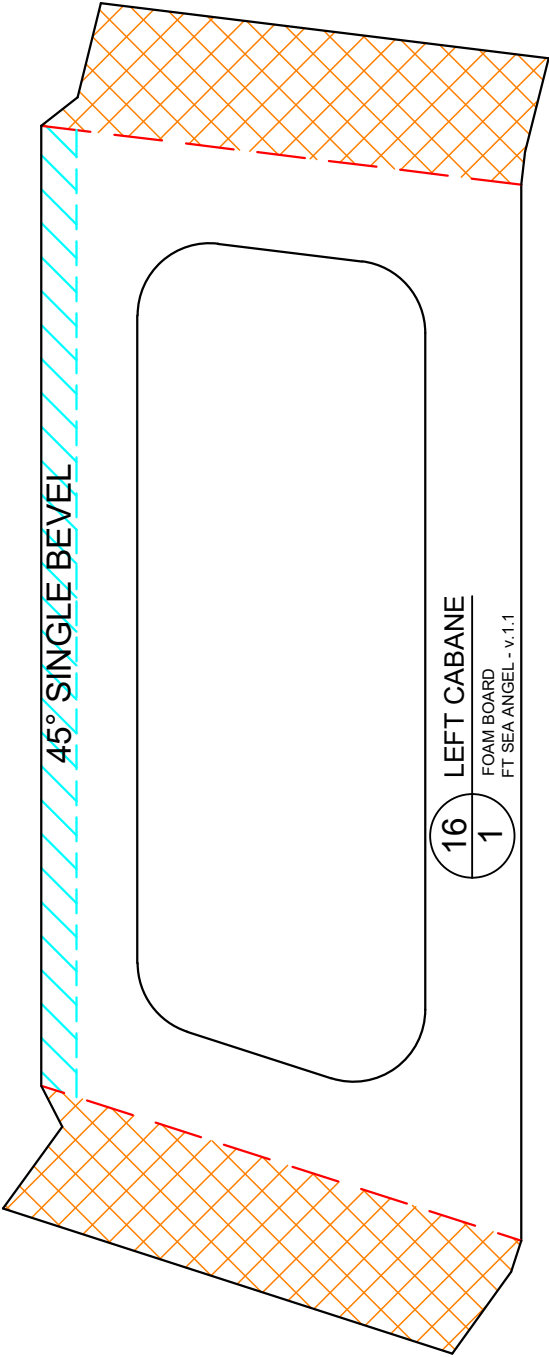


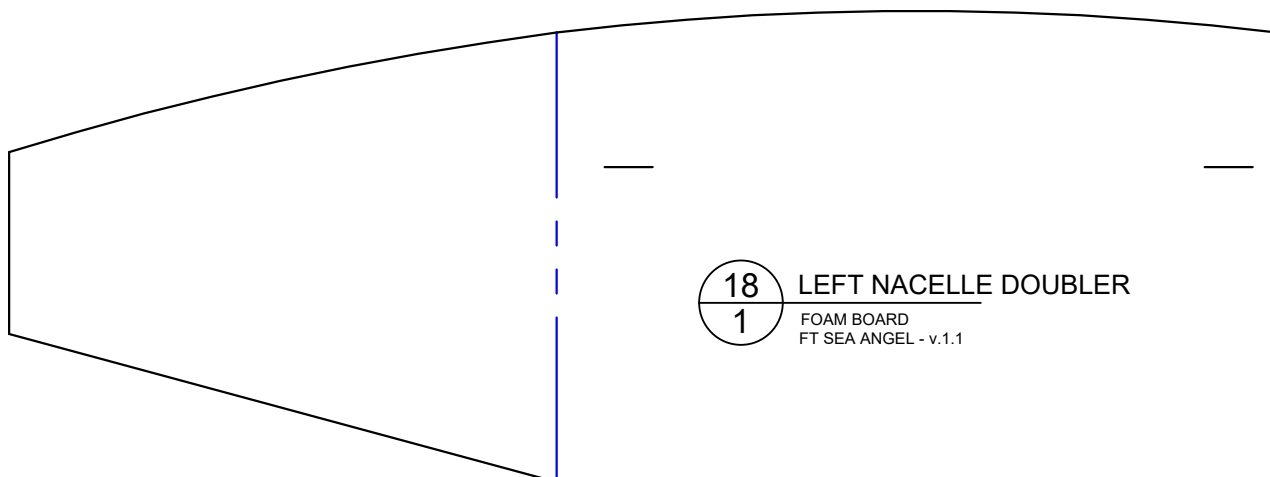
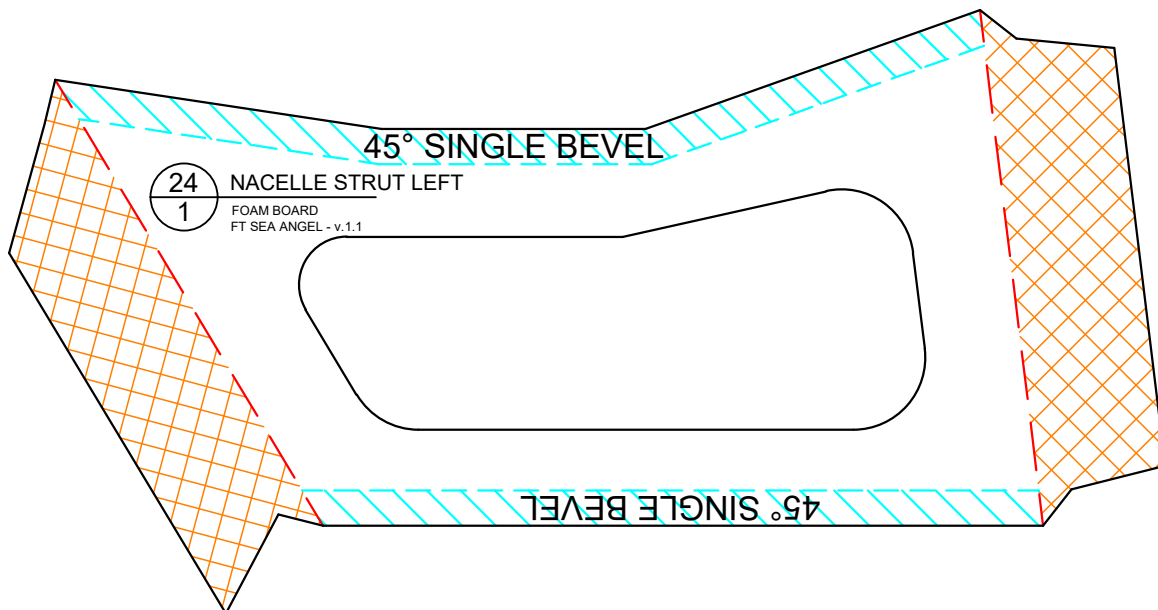
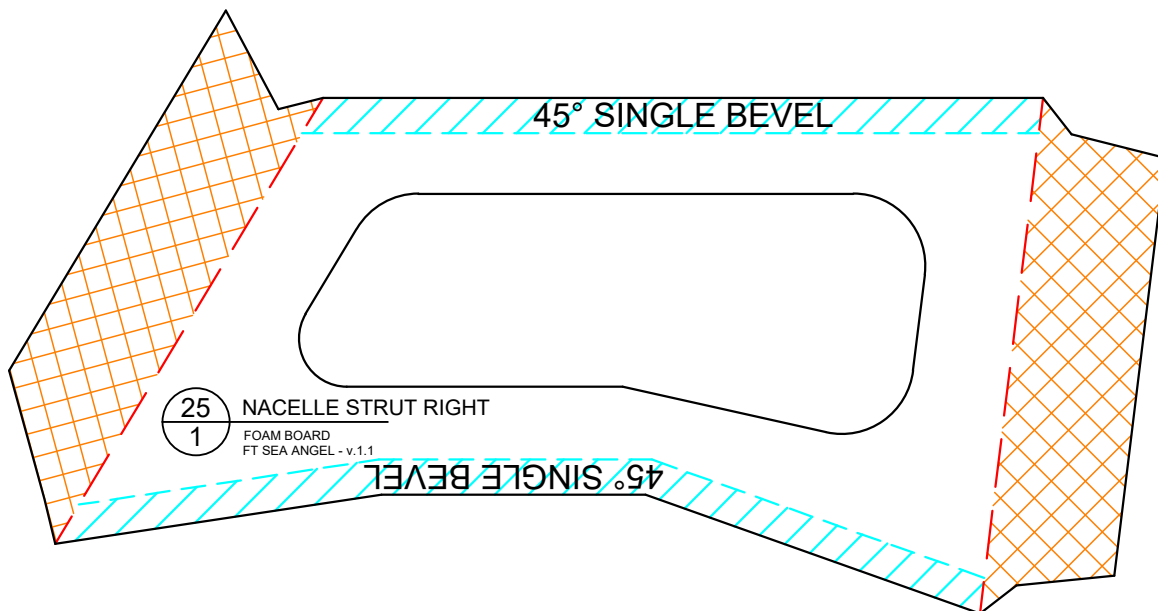
06  
1

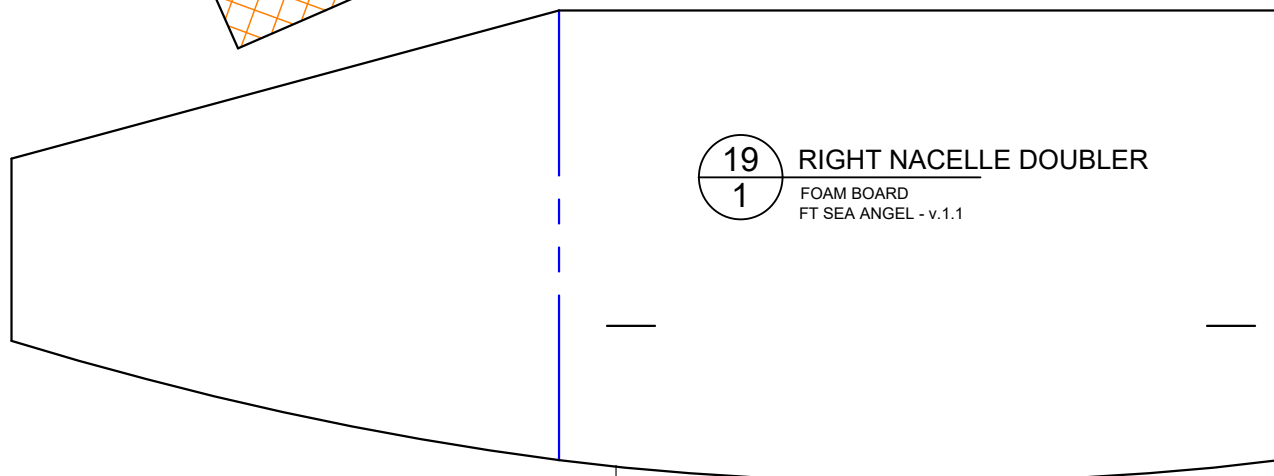
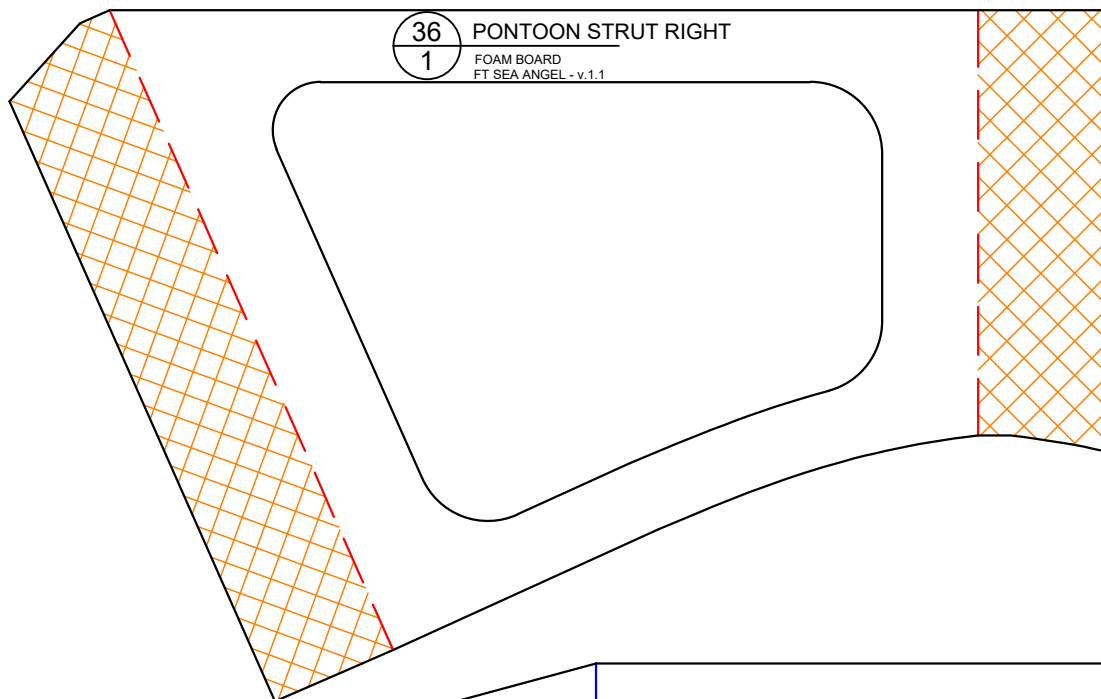
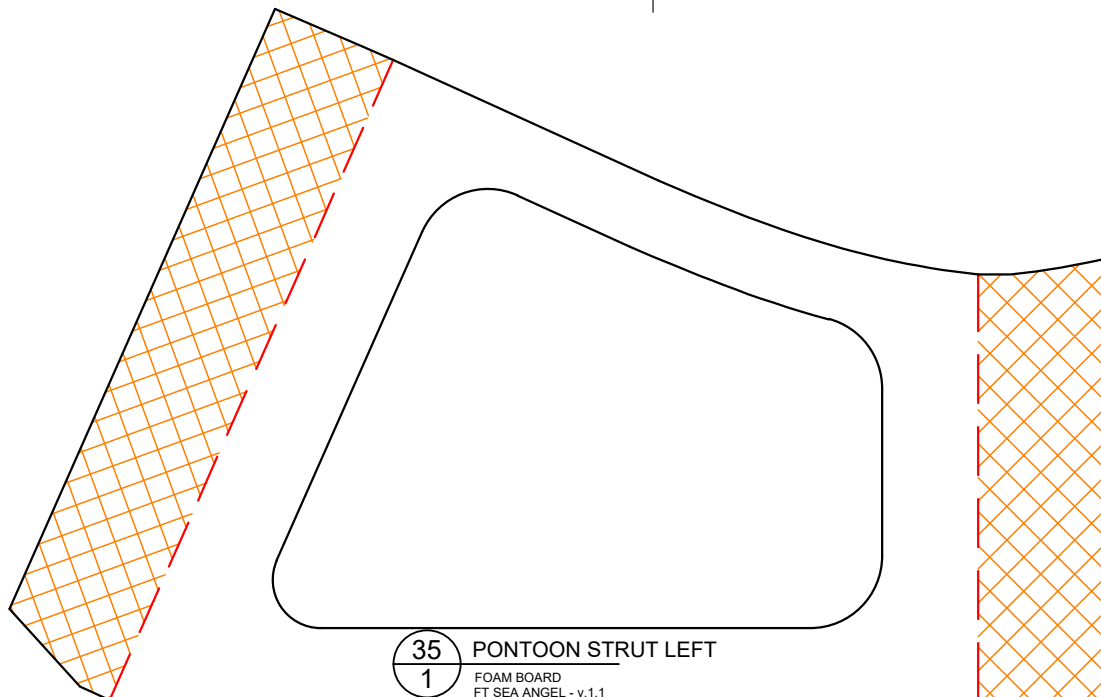
REAR TURTLE DECK

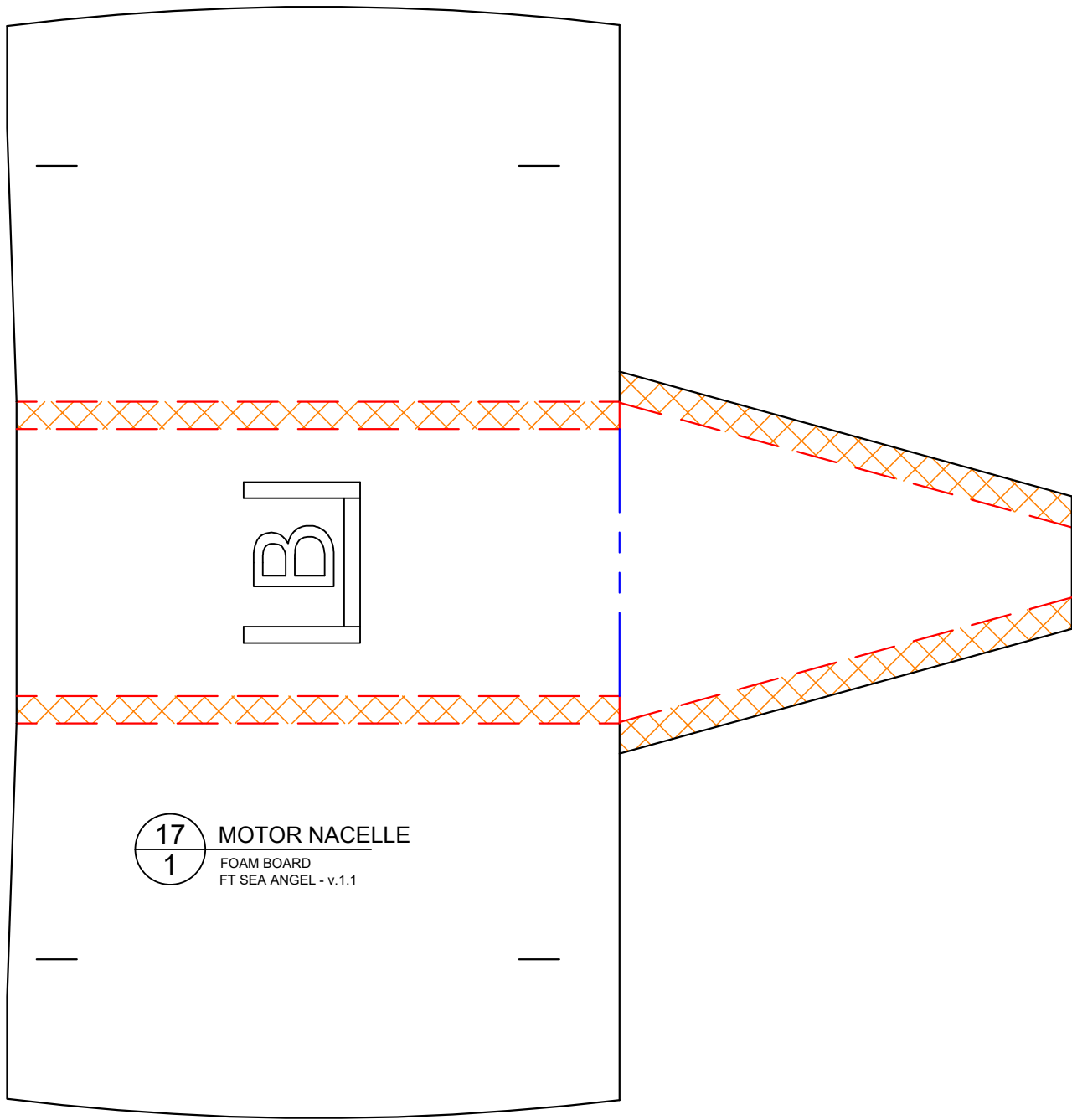
FOAM BOARD  
FT SEA ANGEL - v.1.1











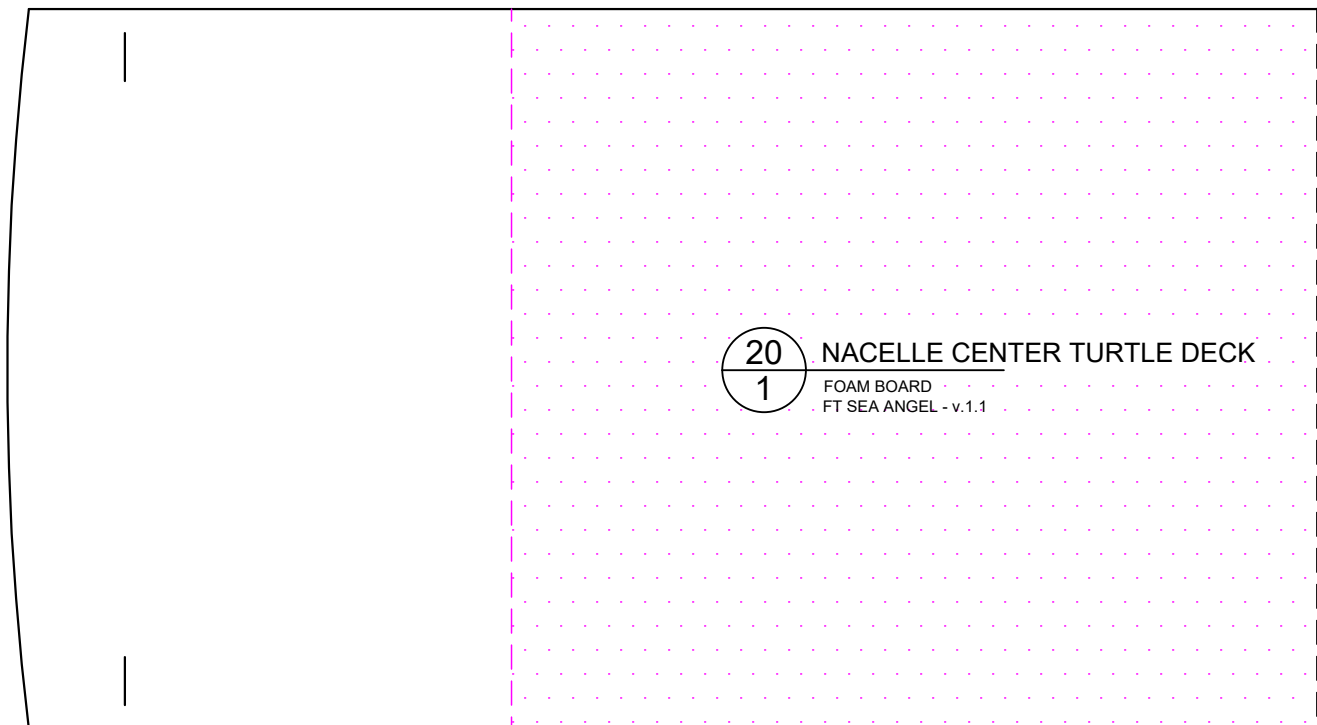
17  
1

**MOTOR NACELLE**

FOAM BOARD  
FT SEA ANGEL - v.1.1



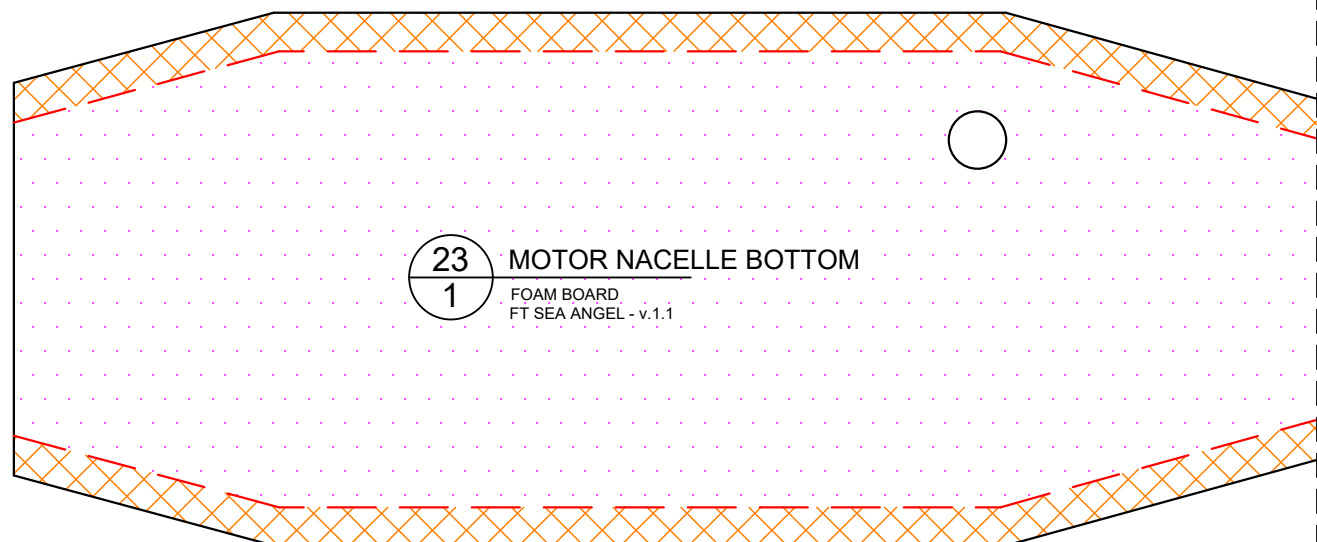
IN  
CM



20  
1

## NACELLE CENTER TURTLE DECK

FOAM BOARD  
FT SEA ANGEL - v.1.1

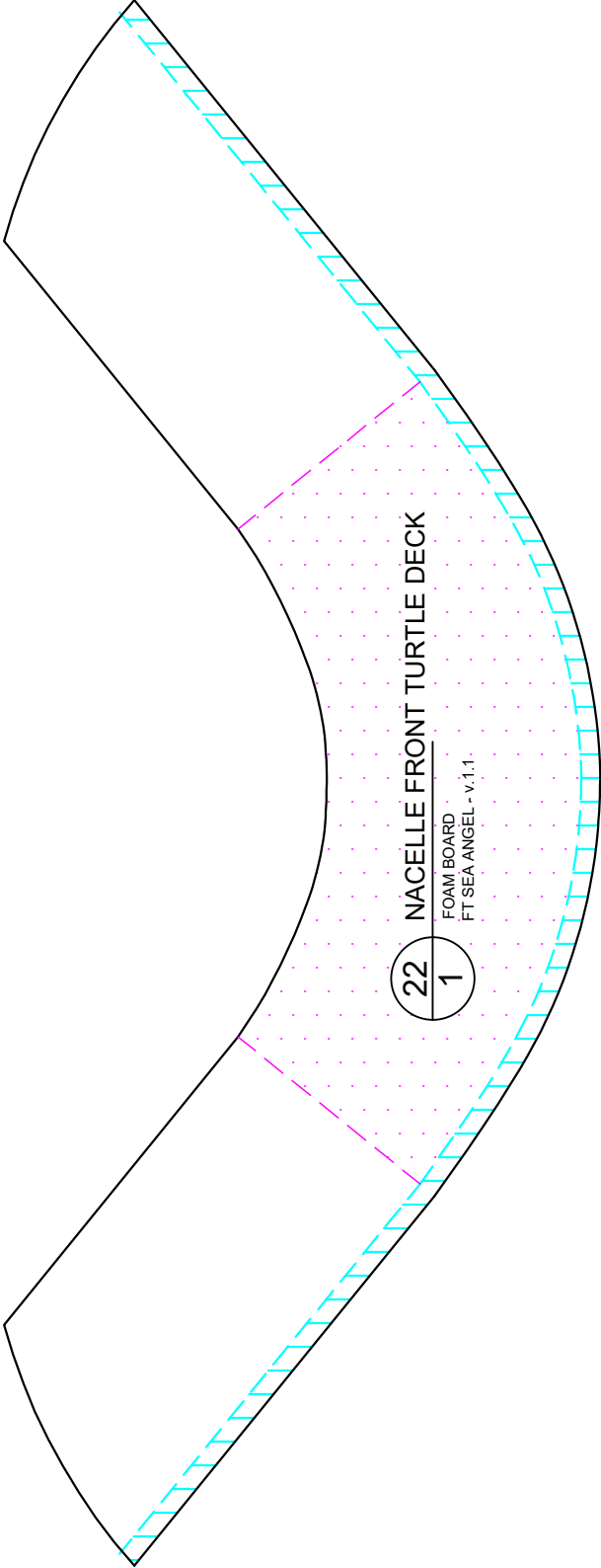
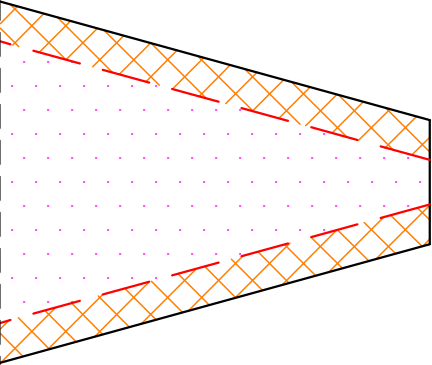
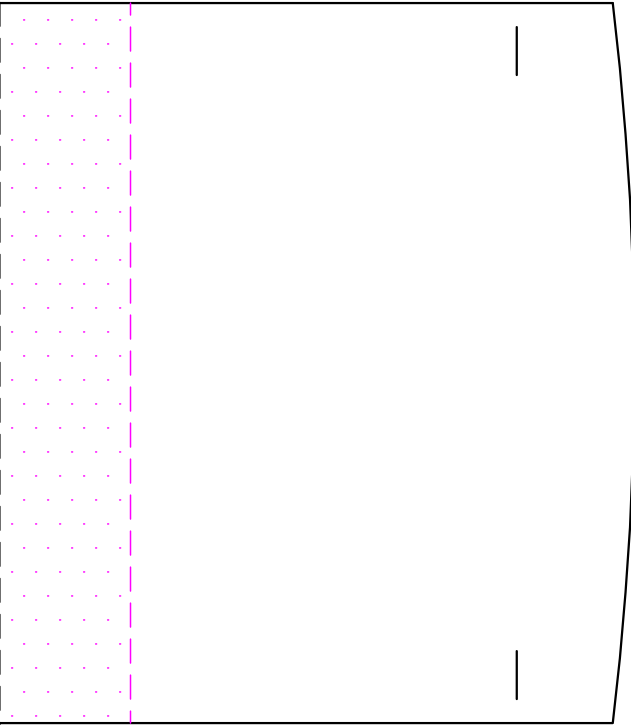


23  
1

## MOTOR NACELLE BOTTOM

FOAM BOARD  
FT SEA ANGEL - v.1.1

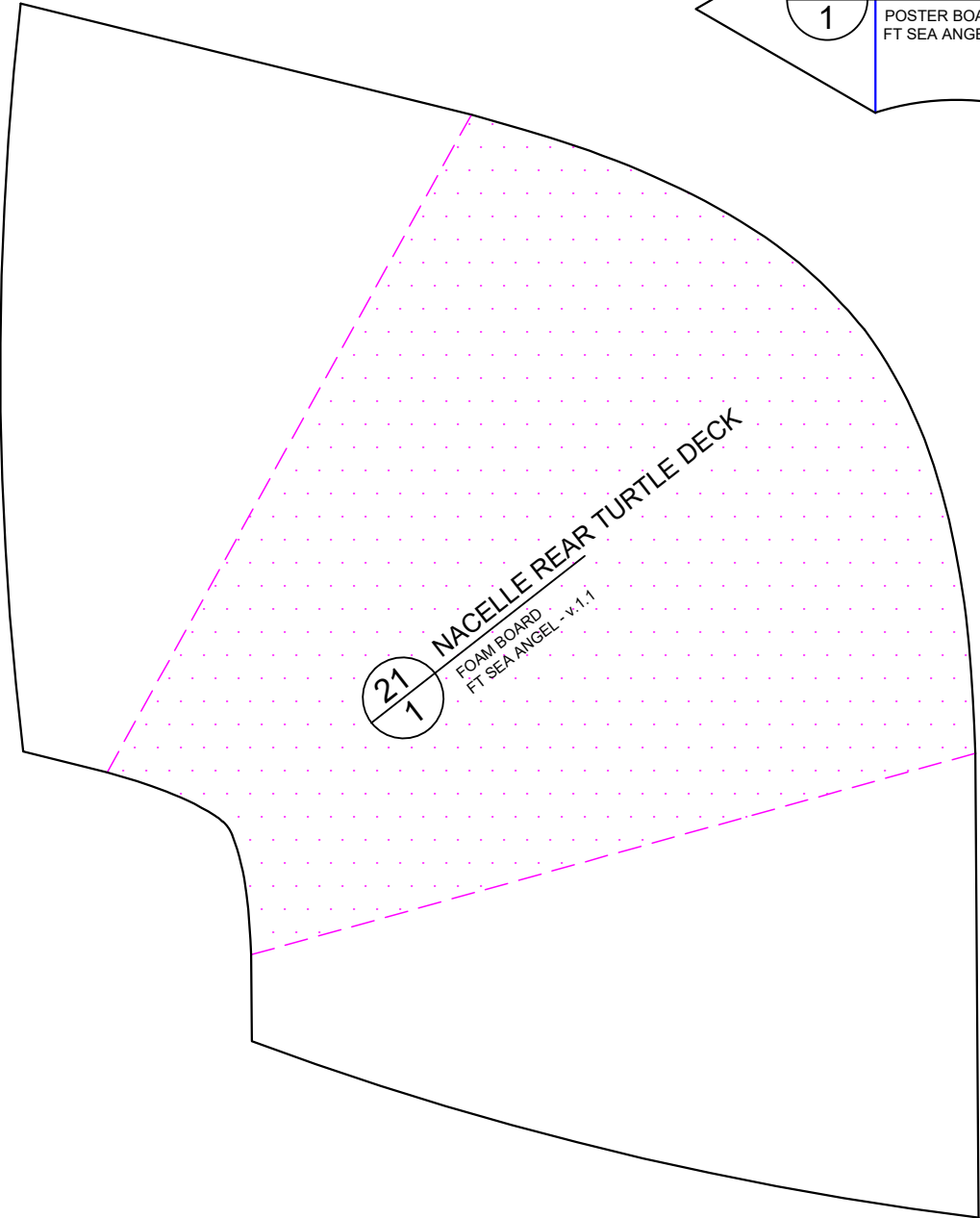
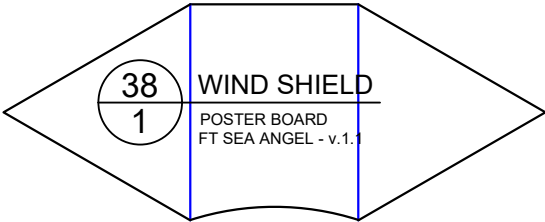
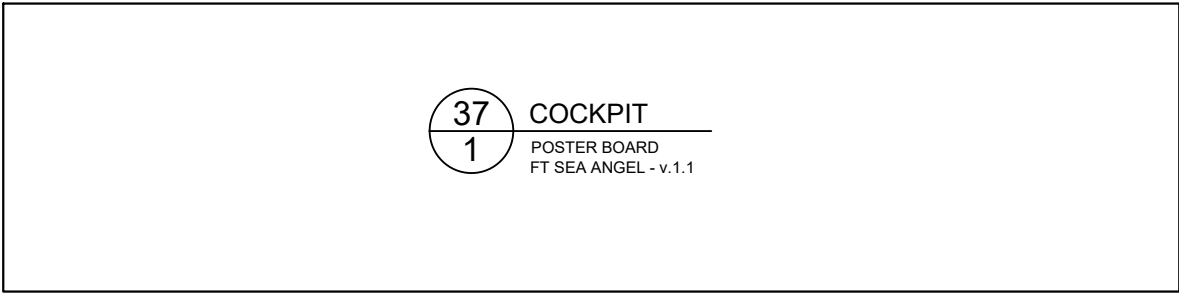


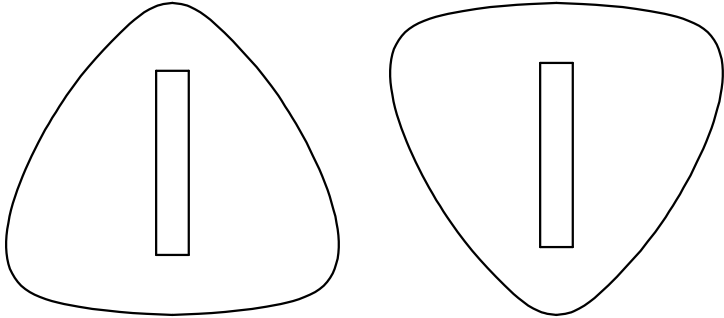


22 NACELLE FRONT TURTLE DECK  
1 FOAM BOARD  
FT SEA ANGEL - v.1.1



IN  
CM

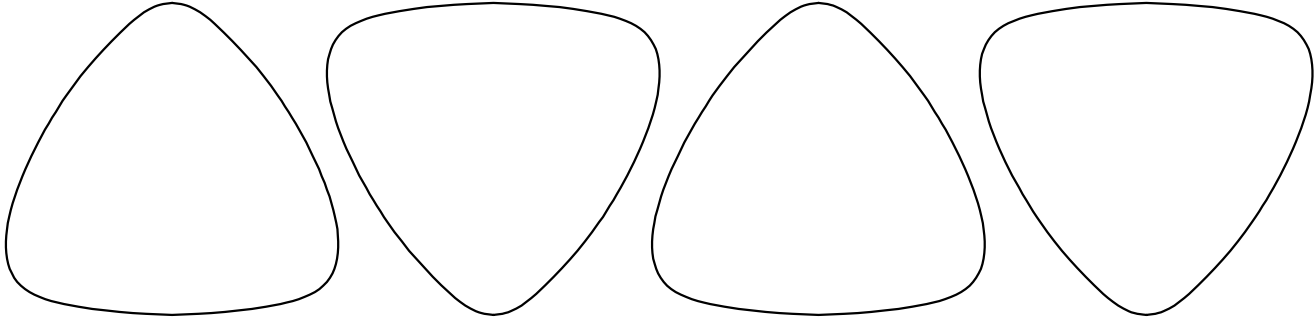




39  
2

INSIDE RADIATOR FINS

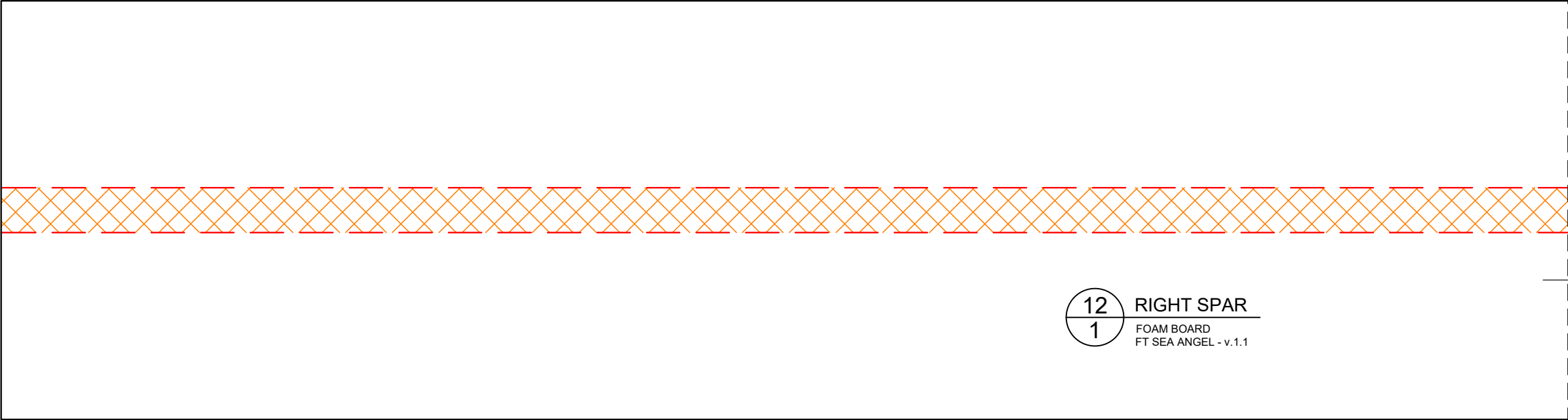
FOAM BOARD  
FT SEA ANGEL - v.1.1



40  
4

OUTSIDE RADIATOR FINS

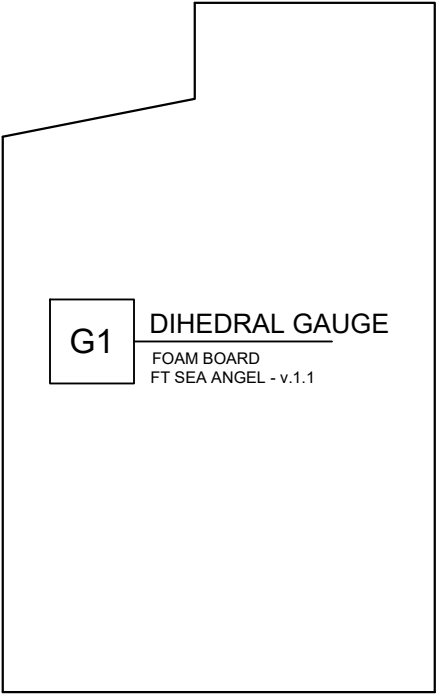
FOAM BOARD  
FT SEA ANGEL - v.1.1



12  
1

RIGHT SPAR

FOAM BOARD  
FT SEA ANGEL - v.1.1

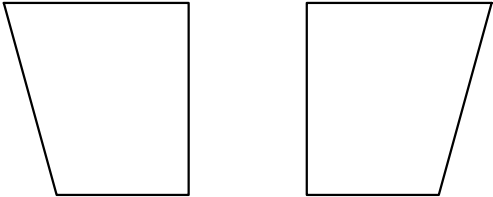


G1

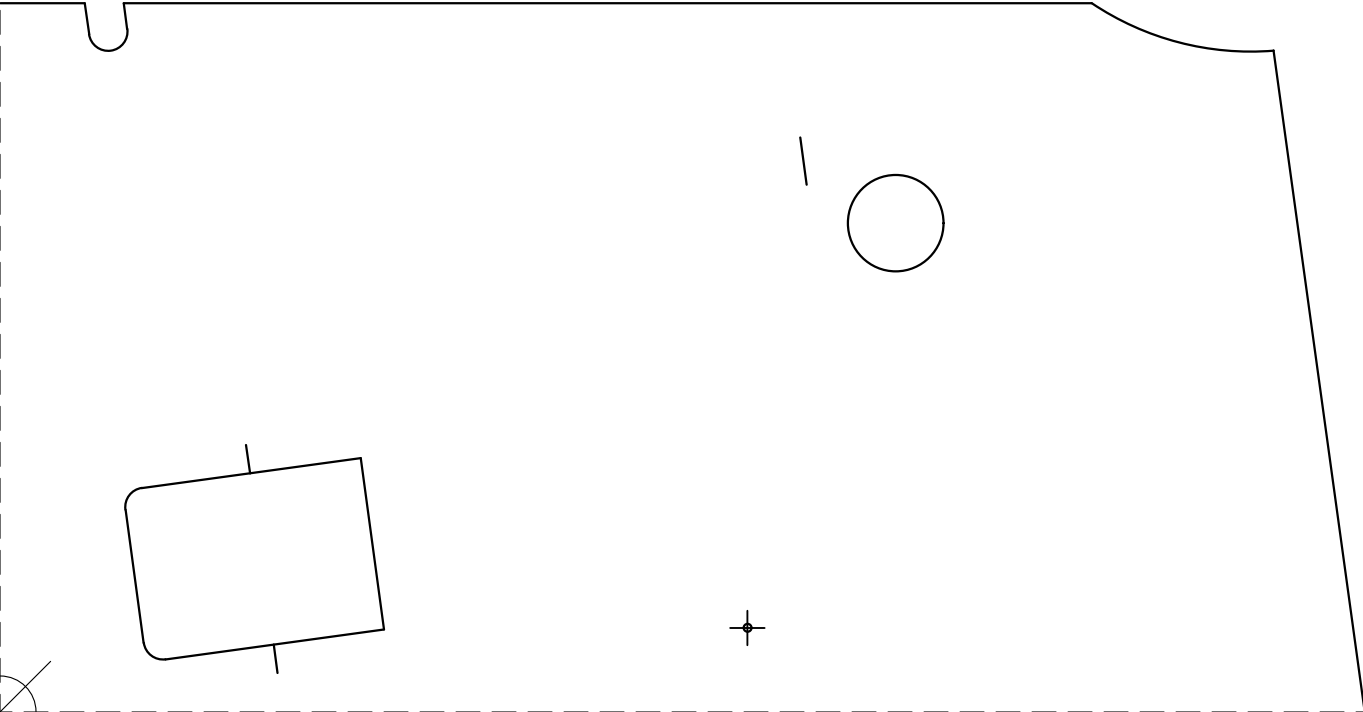
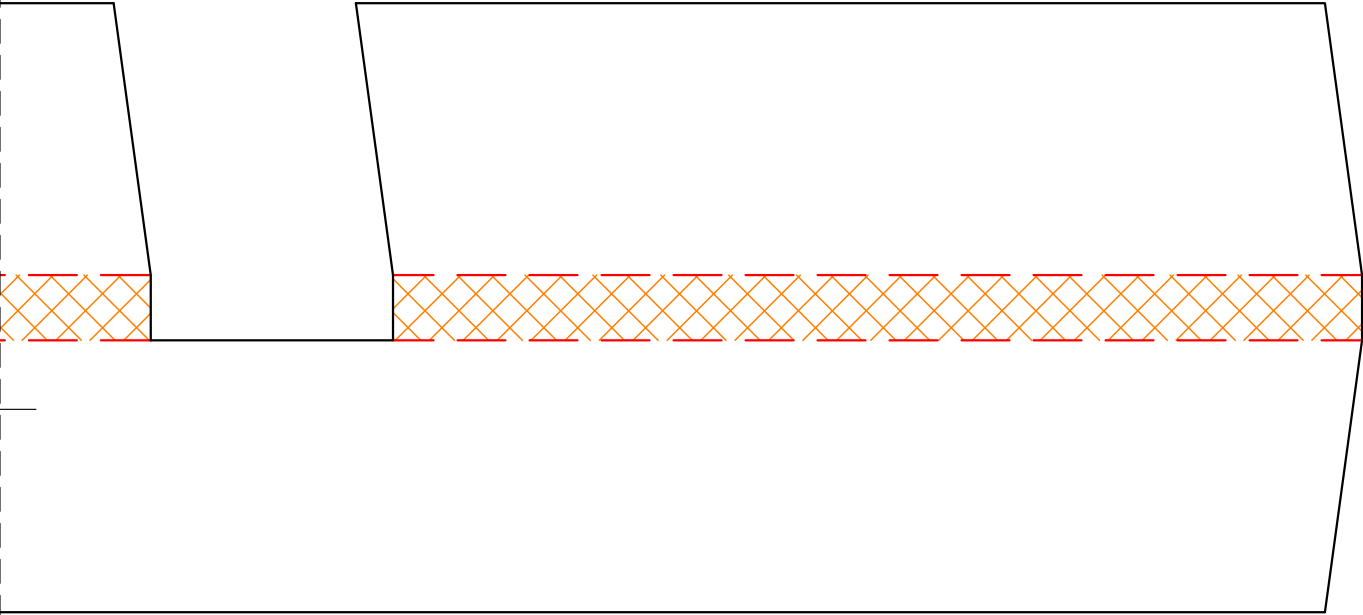
DIHEDRAL GAUGE

FOAM BOARD  
FT SEA ANGEL - v.1.1

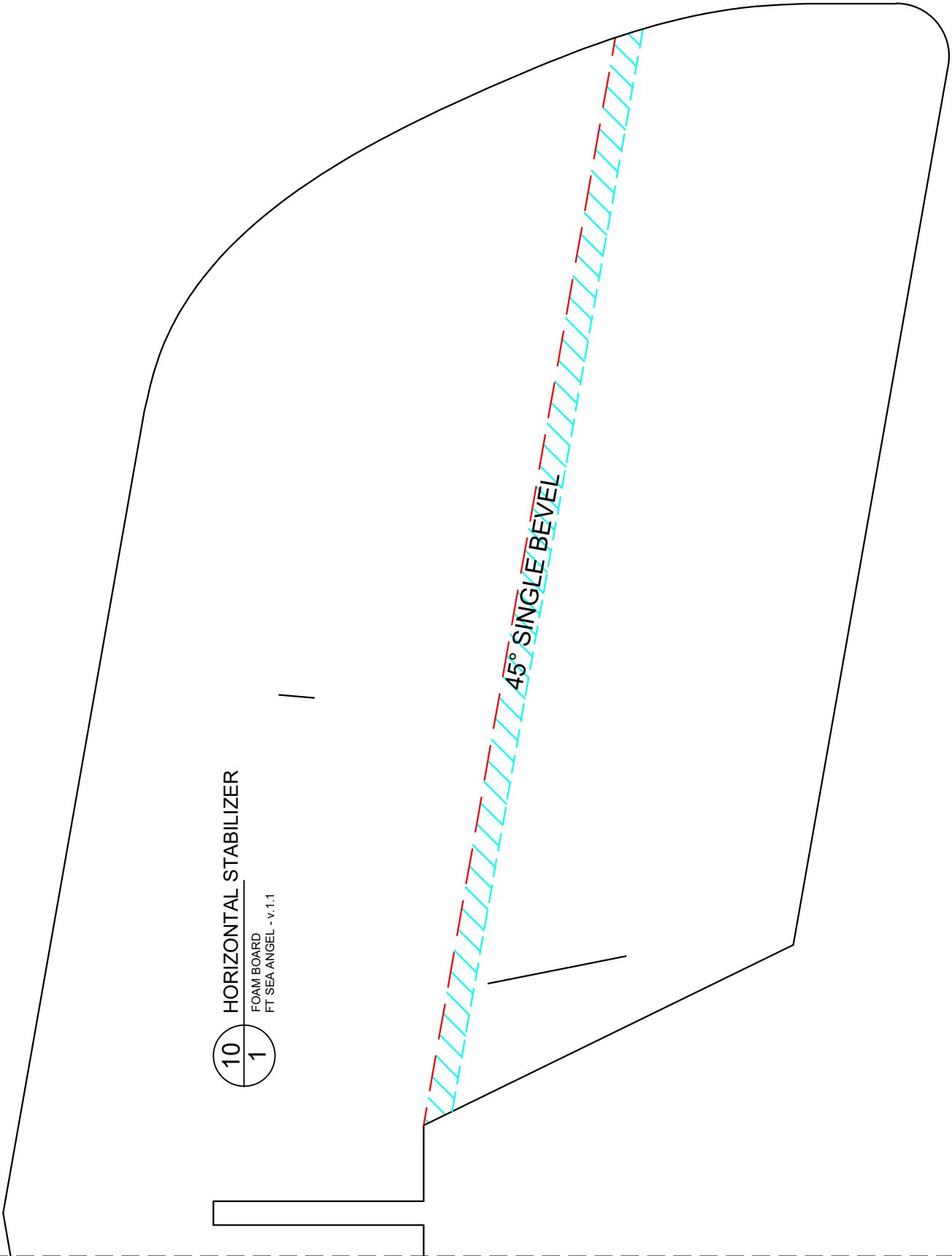


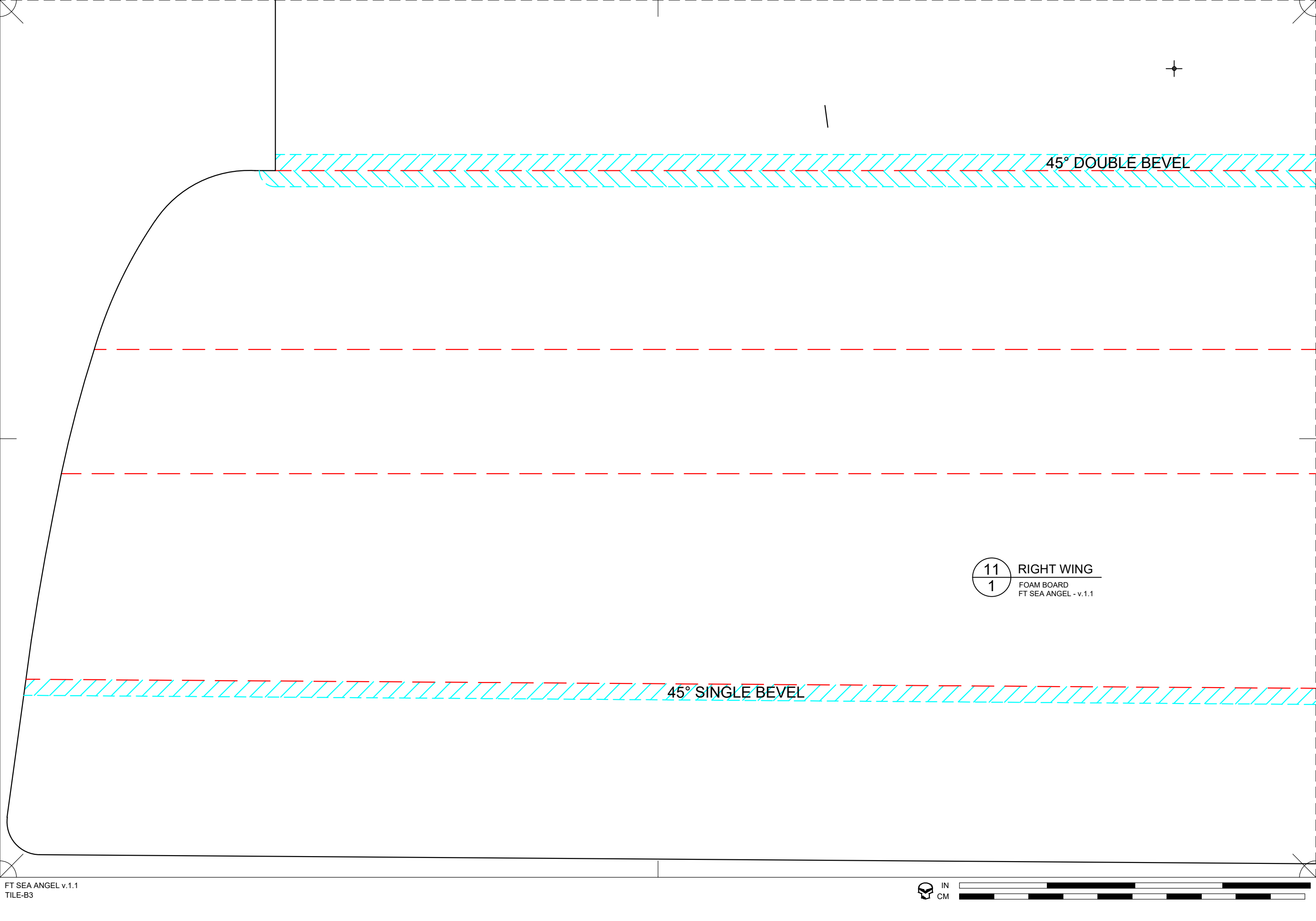


41  
2 RADIATOR SUPPORTS  
FOAM BOARD  
FT SEA ANGEL - v.1.1



10 HORIZONTAL STABILIZER  
1  
FOAM BOARD  
FT SEA ANGEL - v.1.1

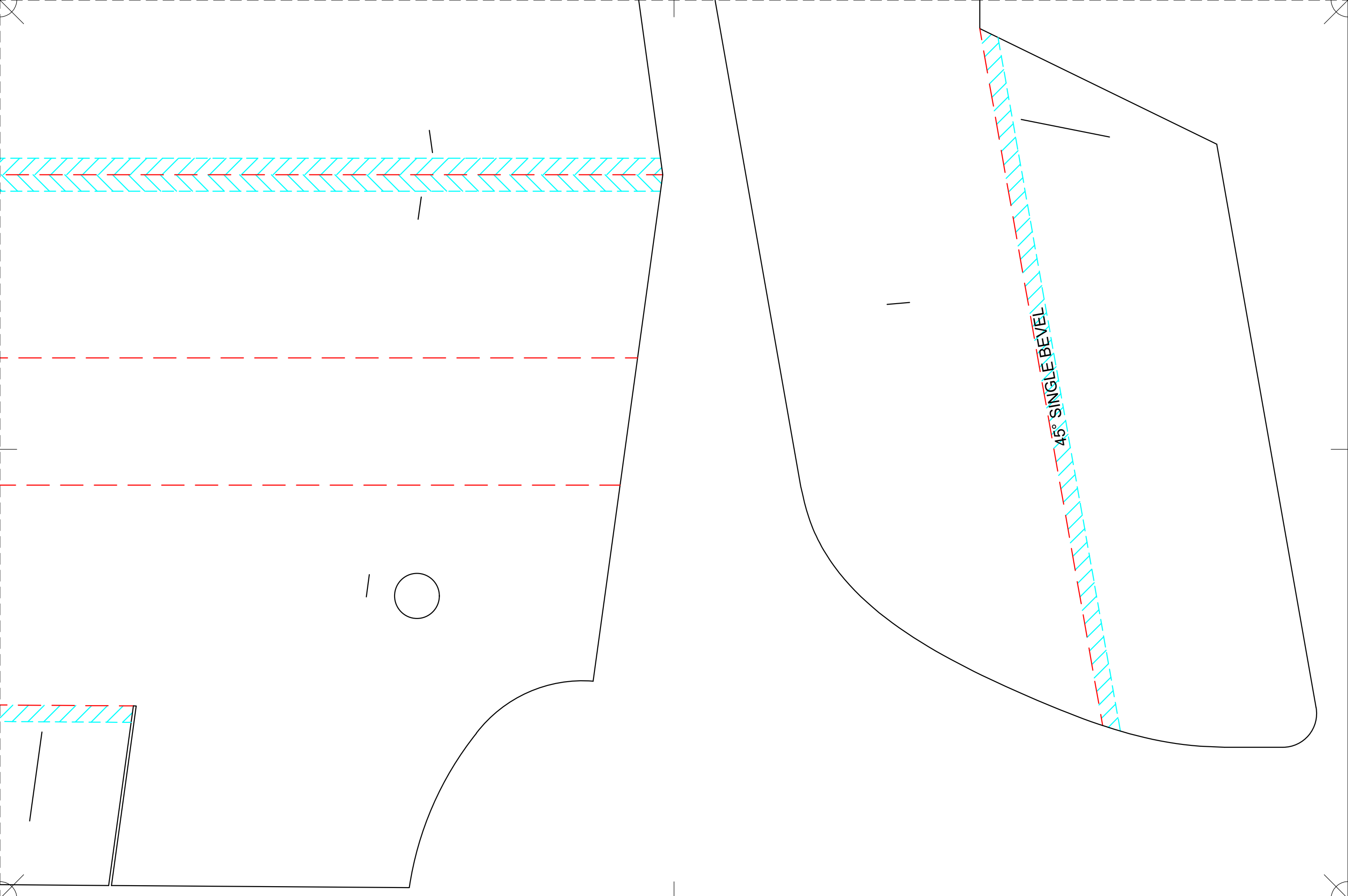


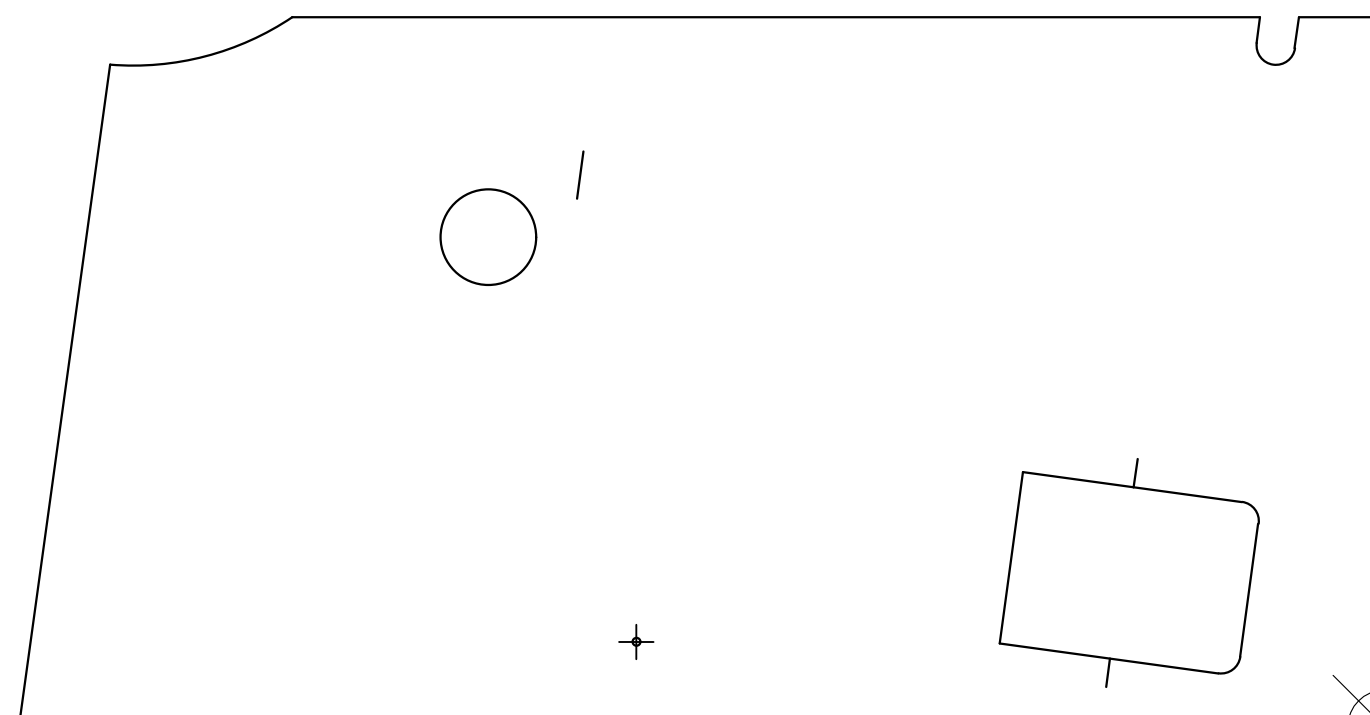
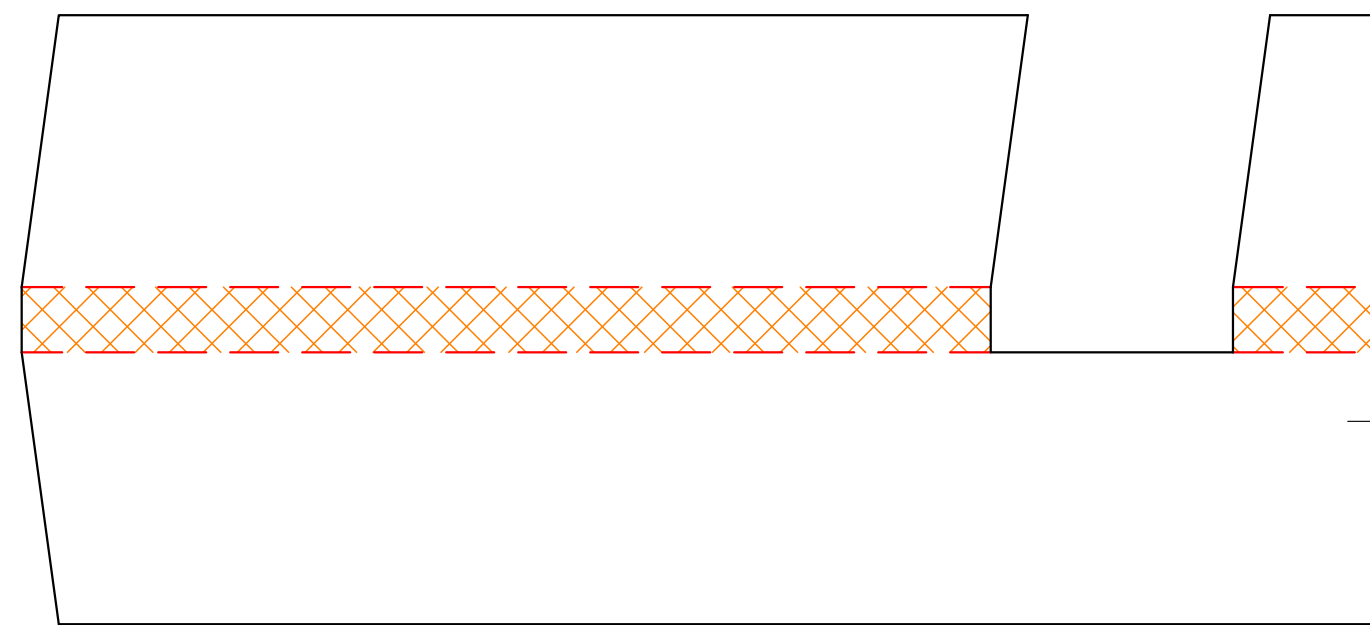
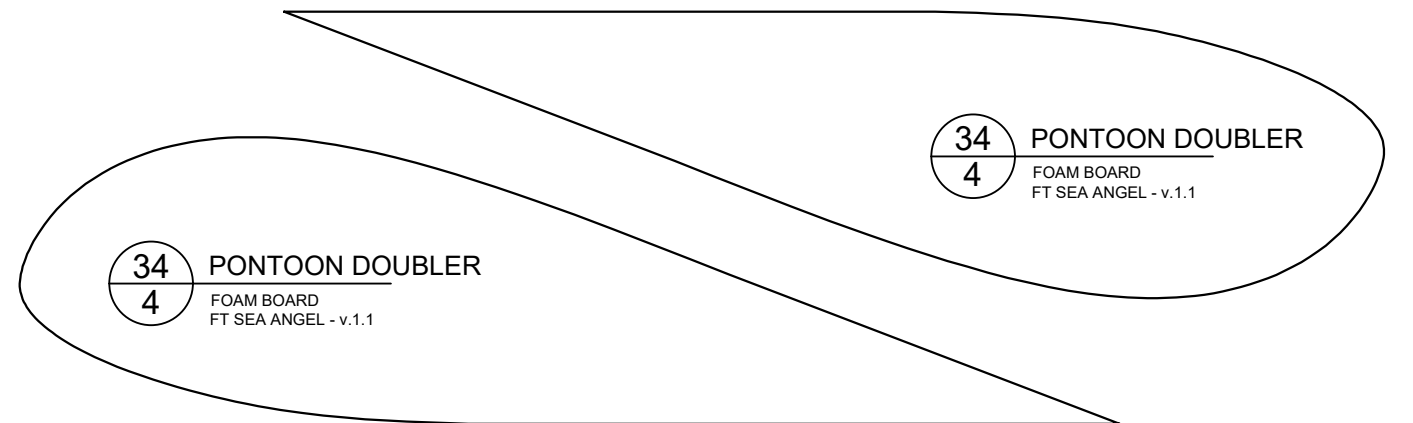
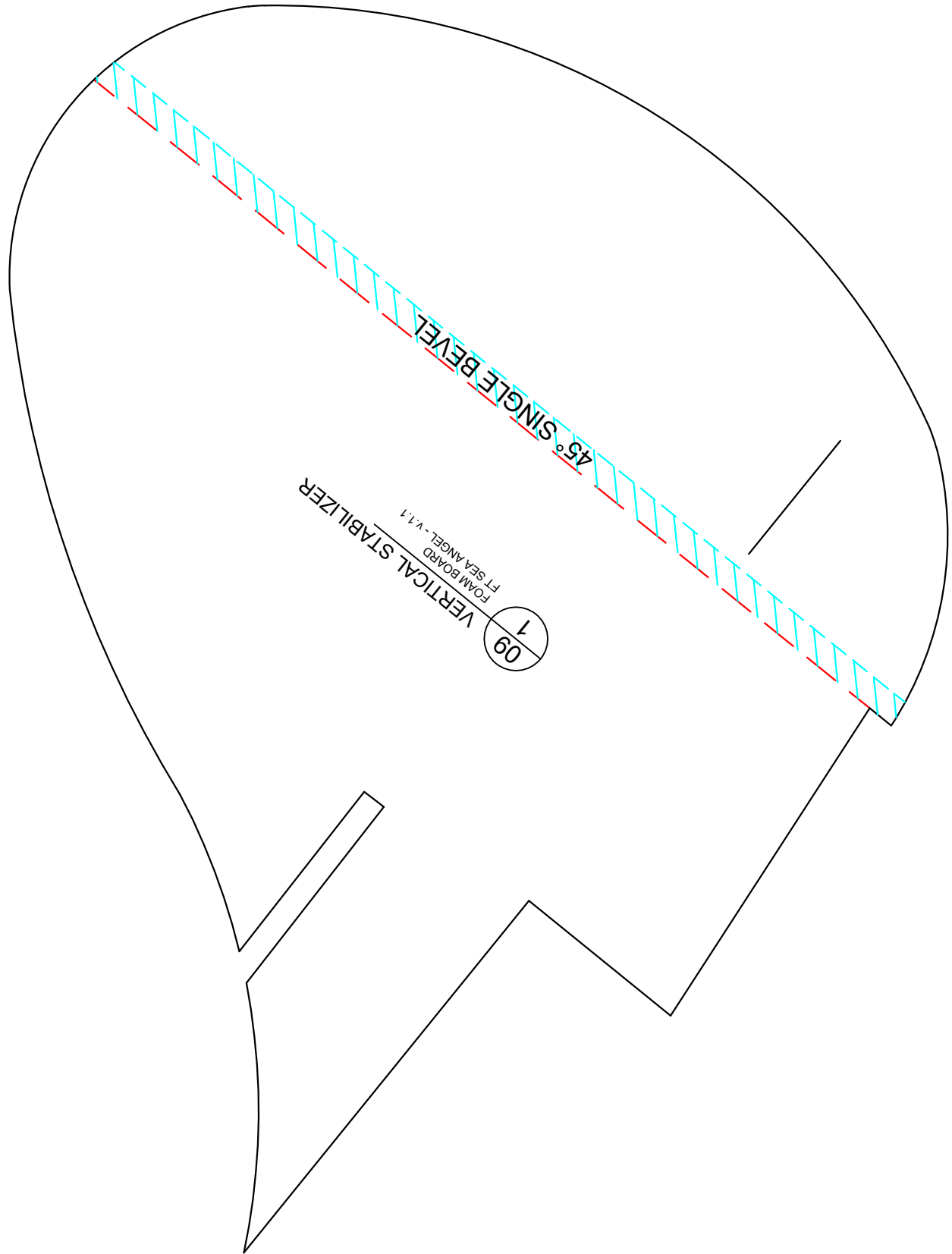


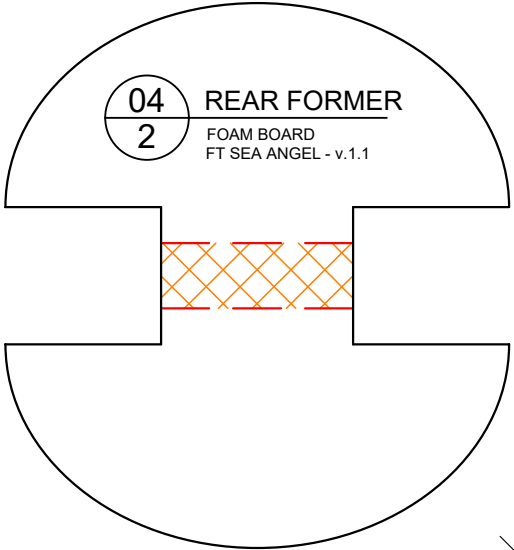
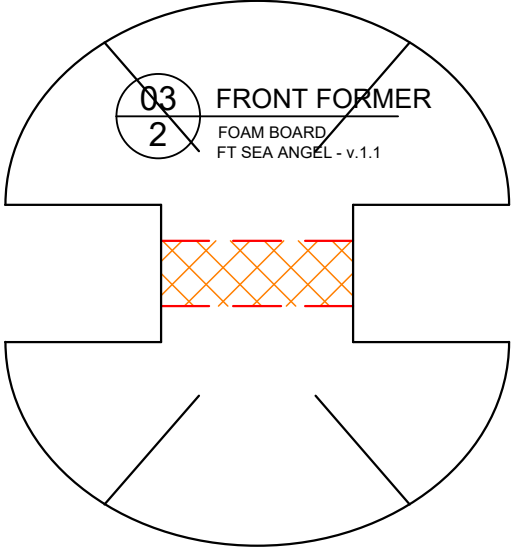
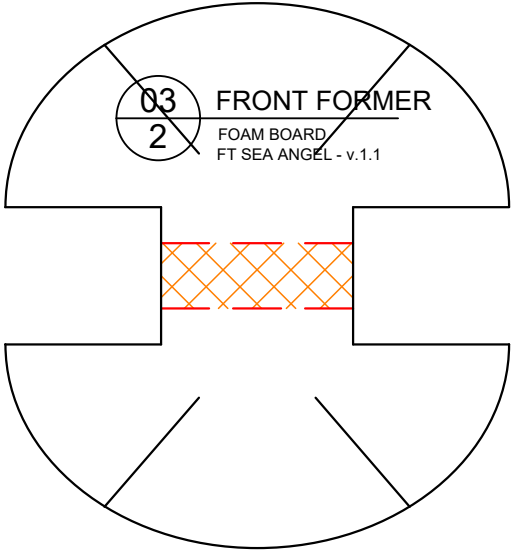
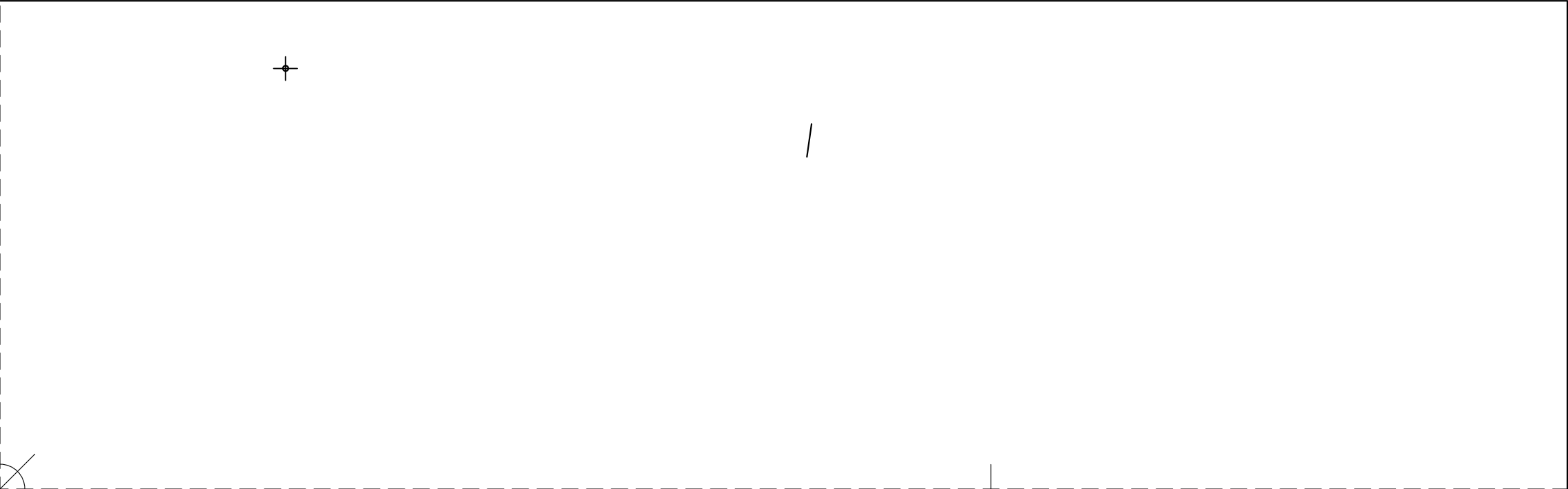
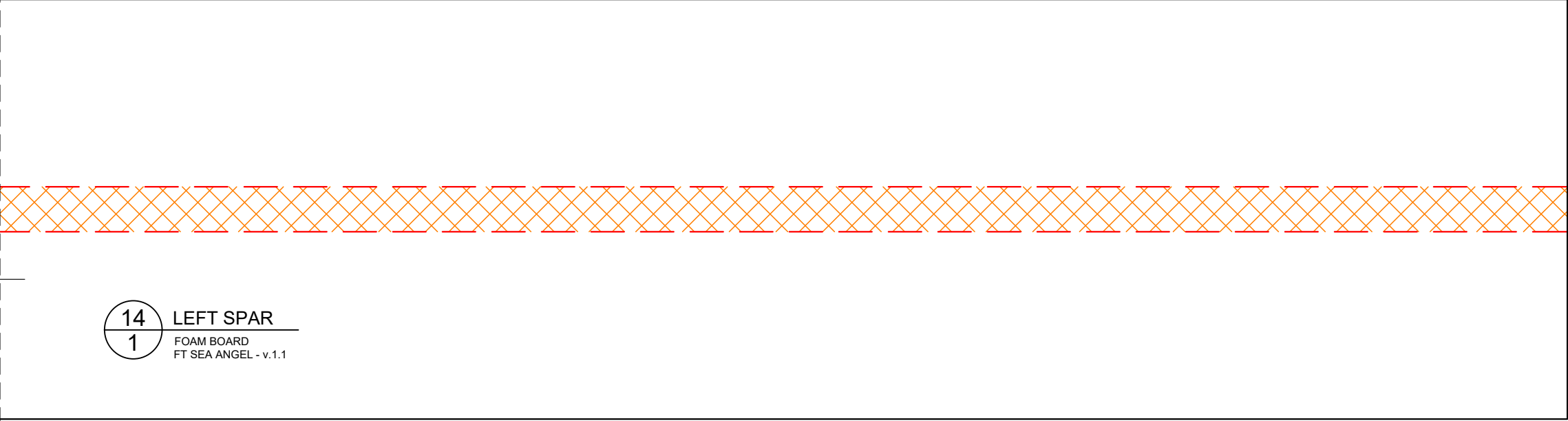
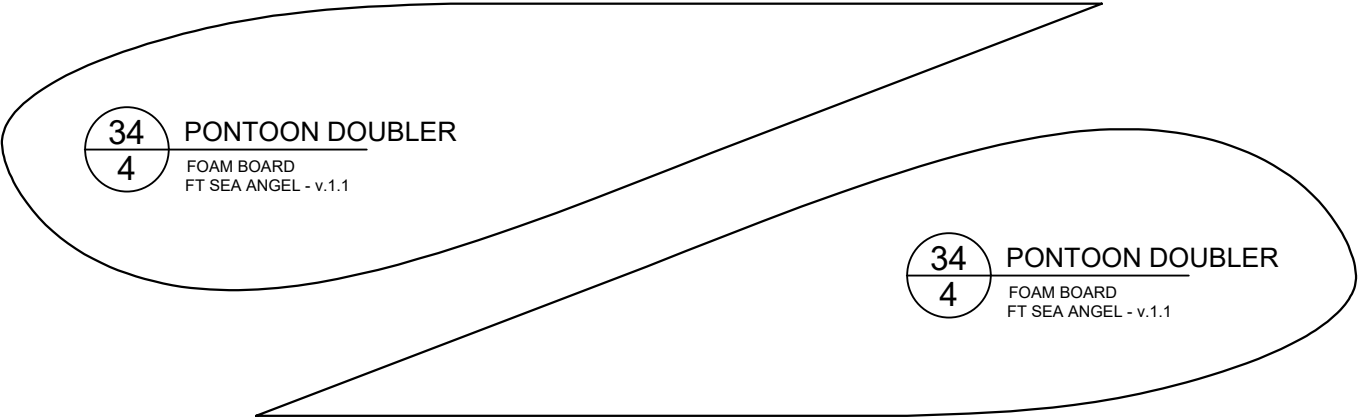
11  
1

RIGHT WING

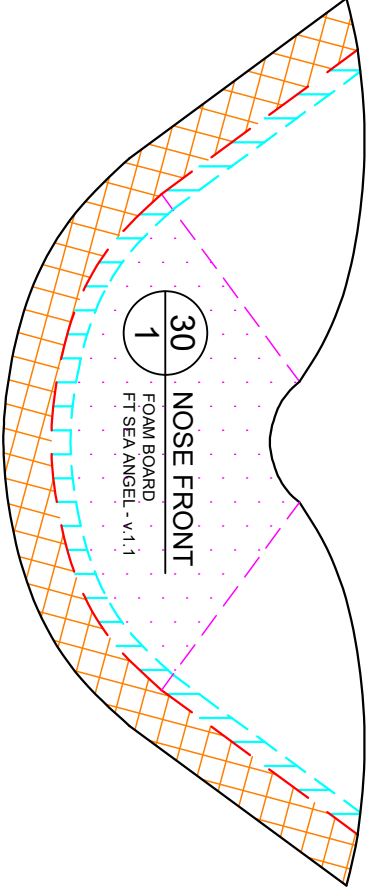
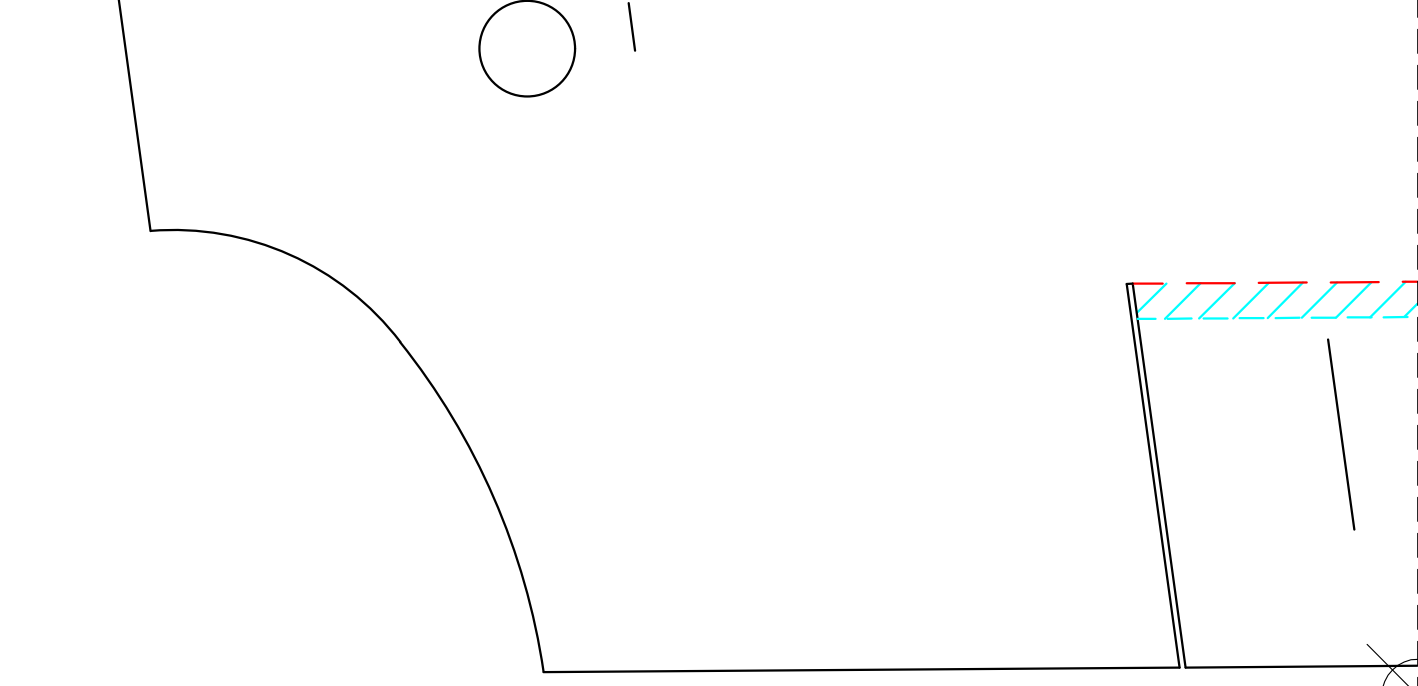
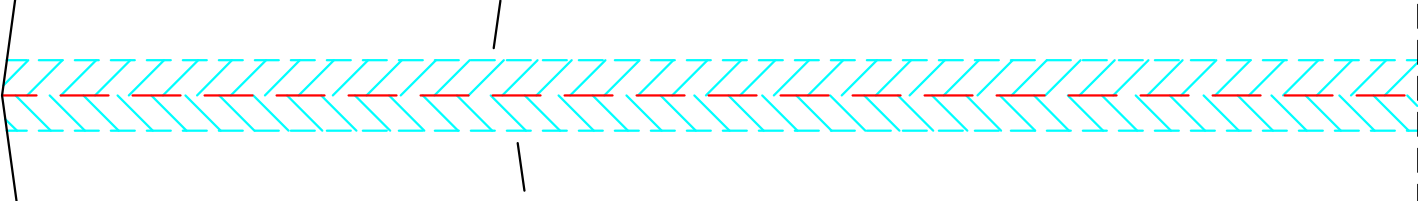
FOAM BOARD  
FT SEA ANGEL - v.1.1



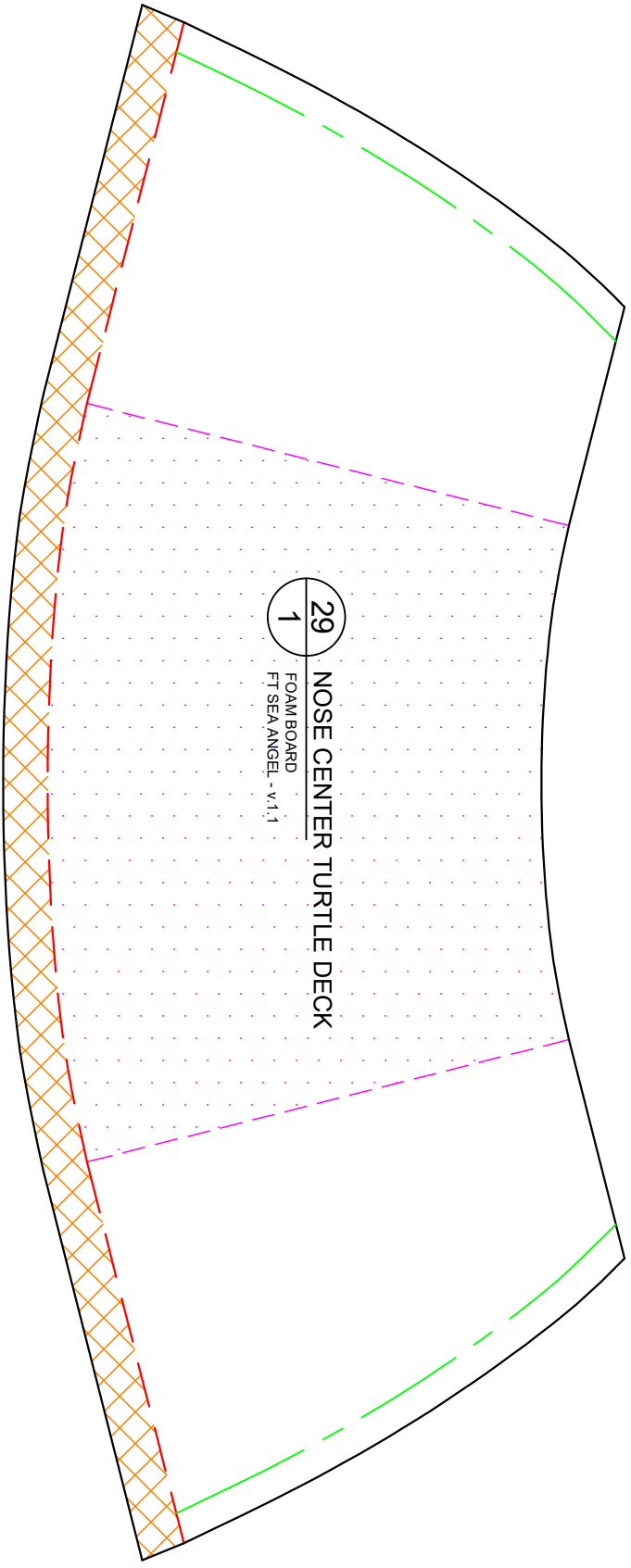








30  
FOAM BOARD  
1  
FT SEA ANGEL - v.1.1  
NOSE FRONT

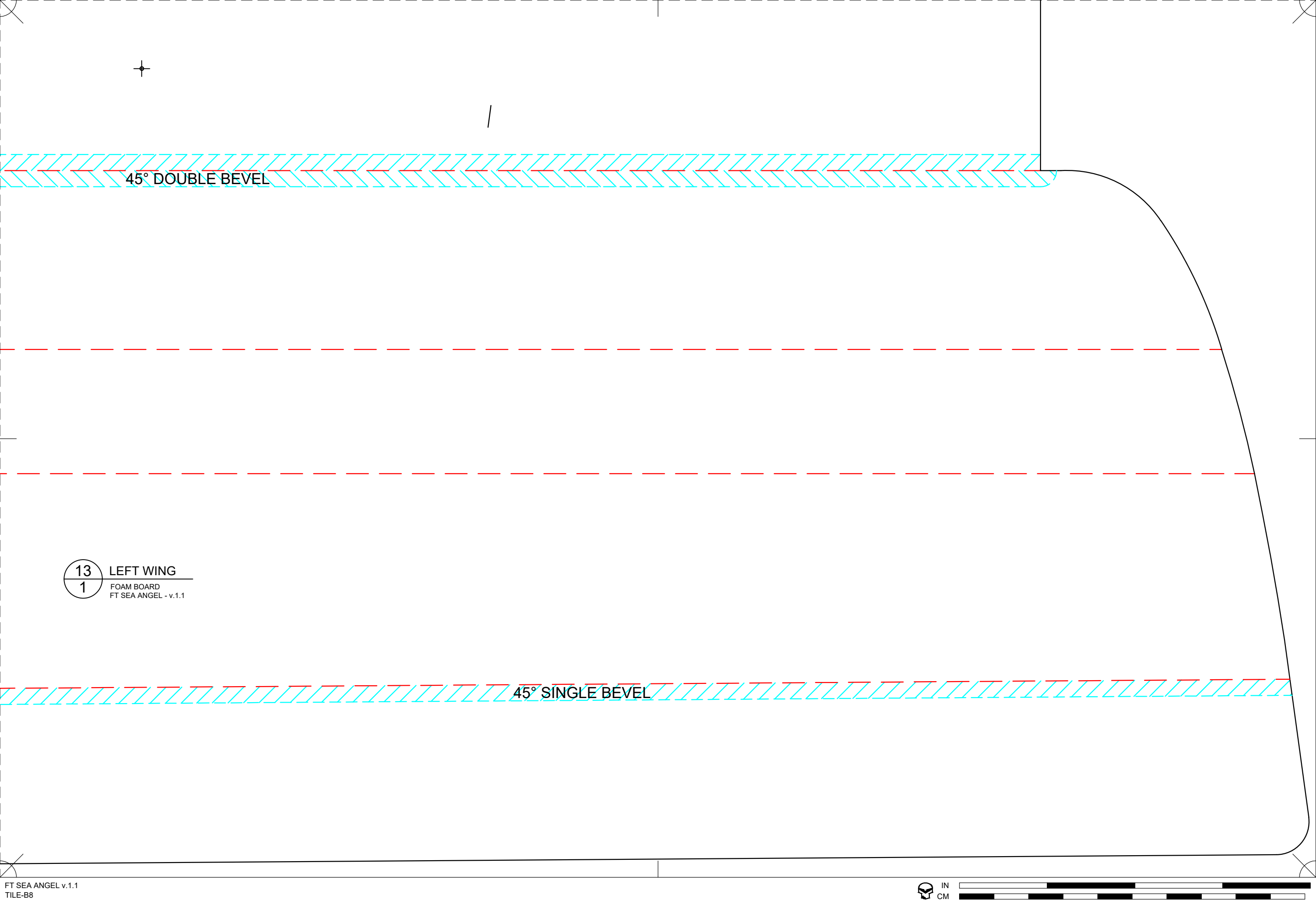


29  
FOAM BOARD  
1  
FT SEA ANGEL - v.1.1  
NOSE CENTER TURTLE DECK



IN  
CM





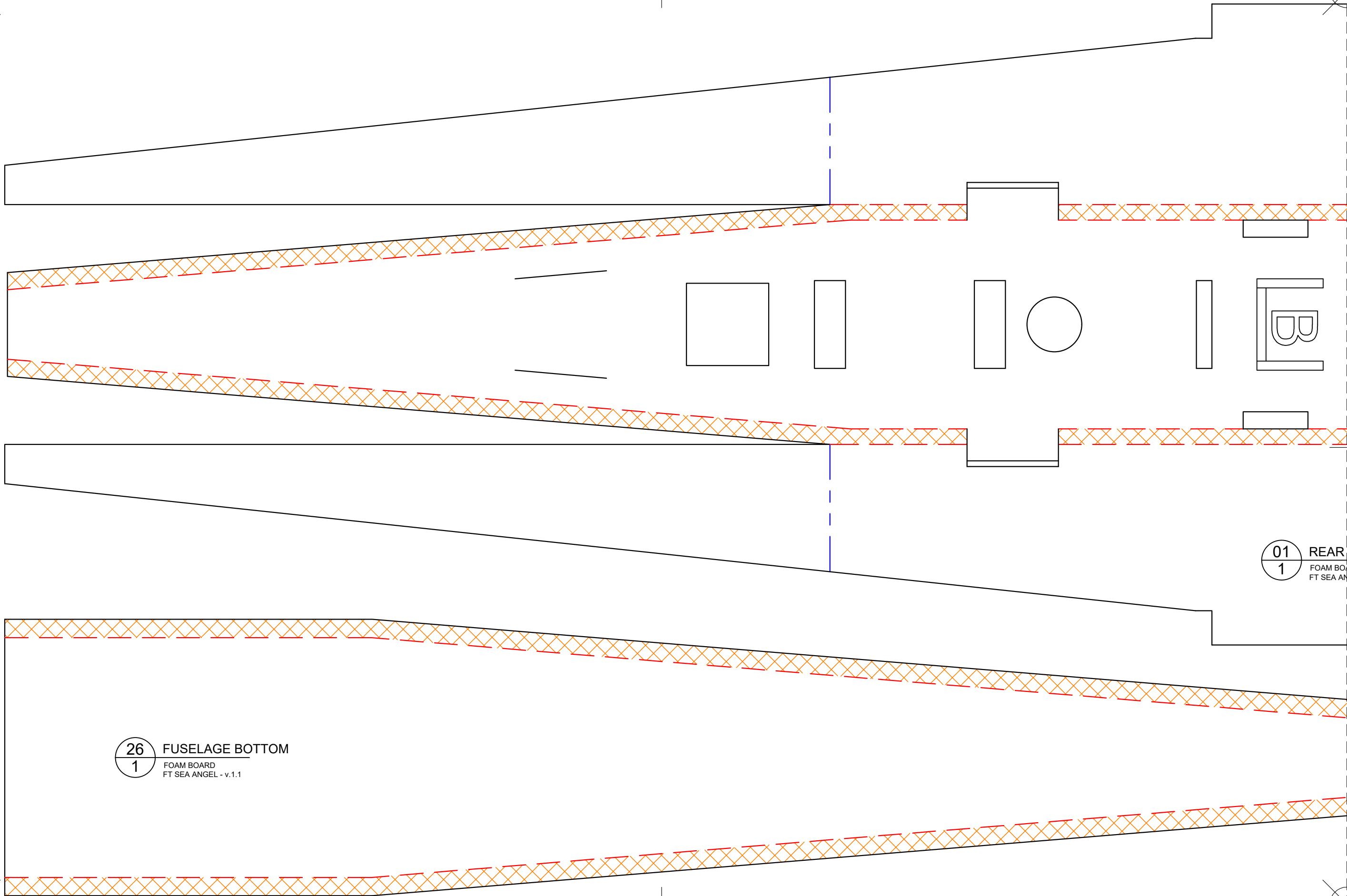
45° DOUBLE BEVEL

45° SINGLE BEVEL

13  
1

LEFT WING

FOAM BOARD  
FT SEA ANGEL - v.1.1



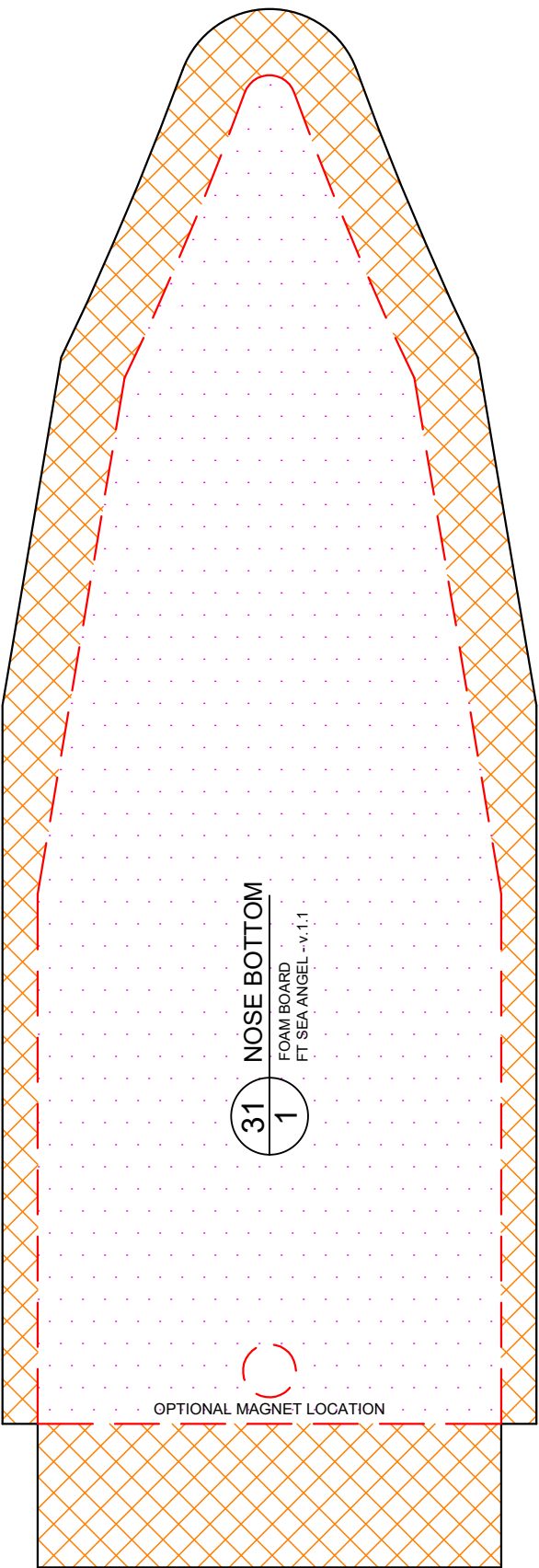
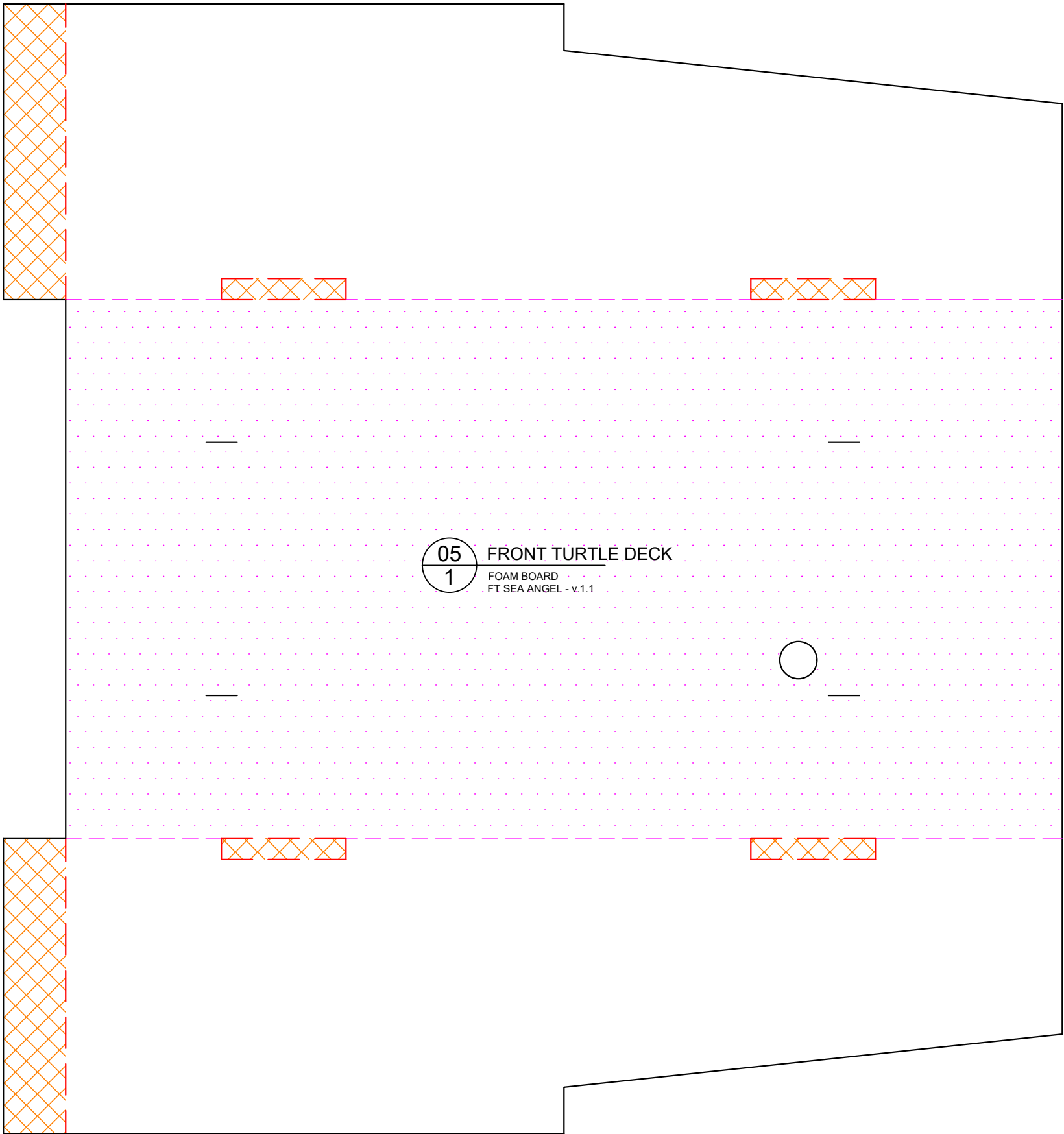
01 REAR  
1 FOAM BOARD  
FT SEA ANGEL

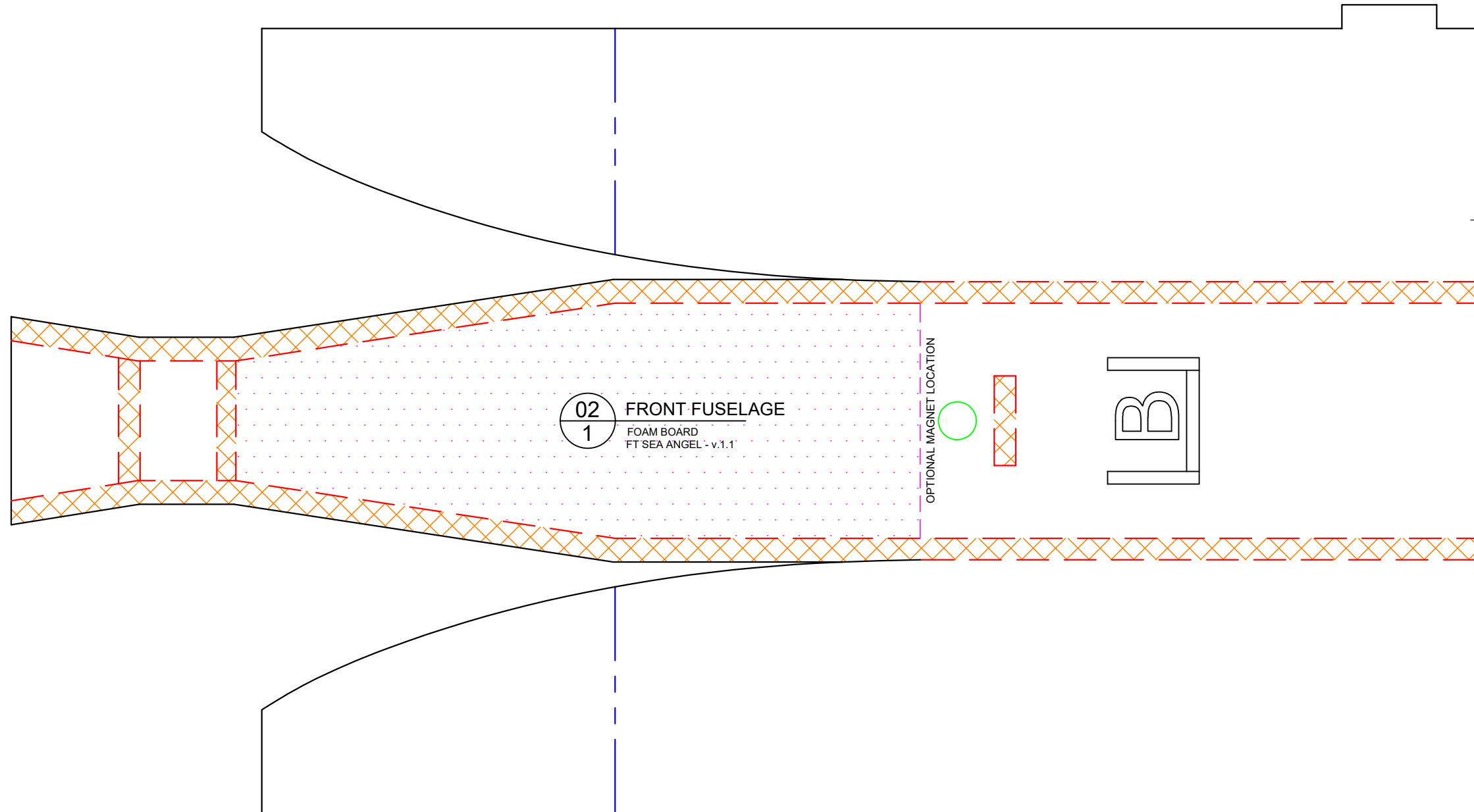
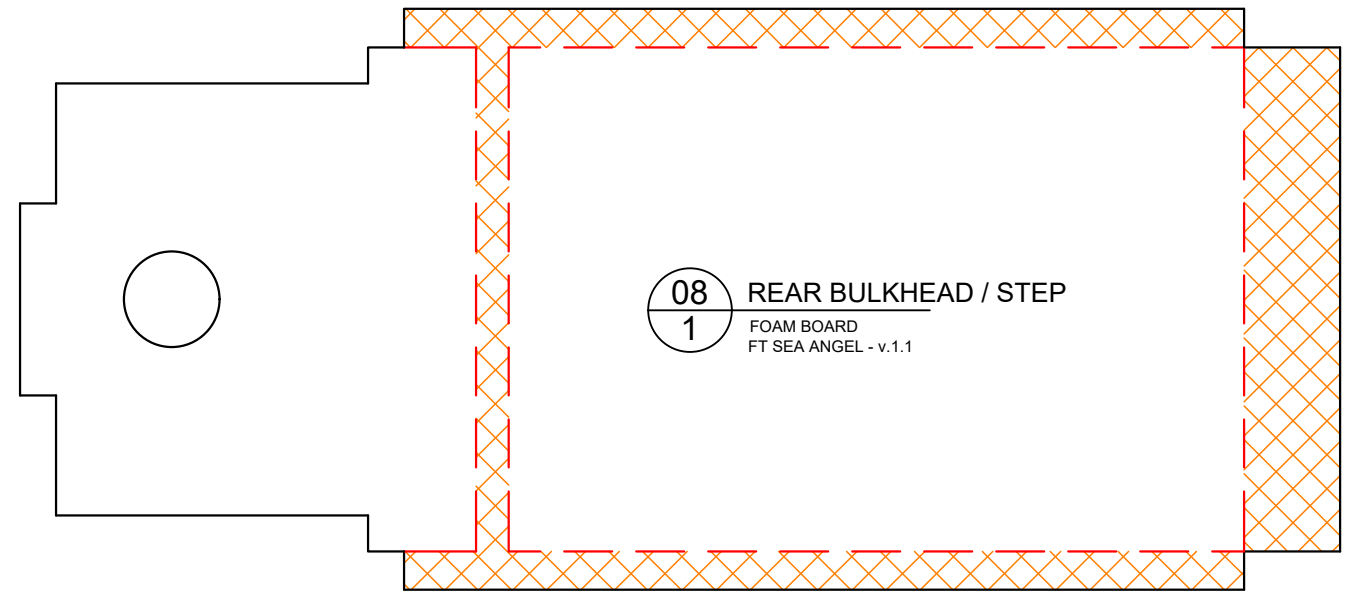
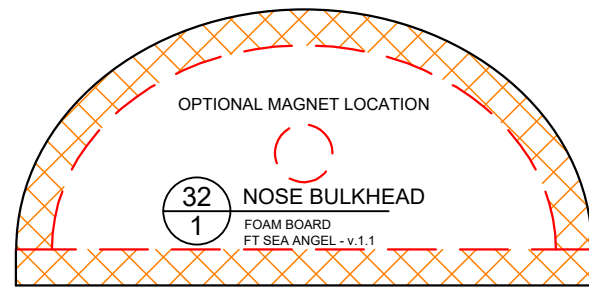
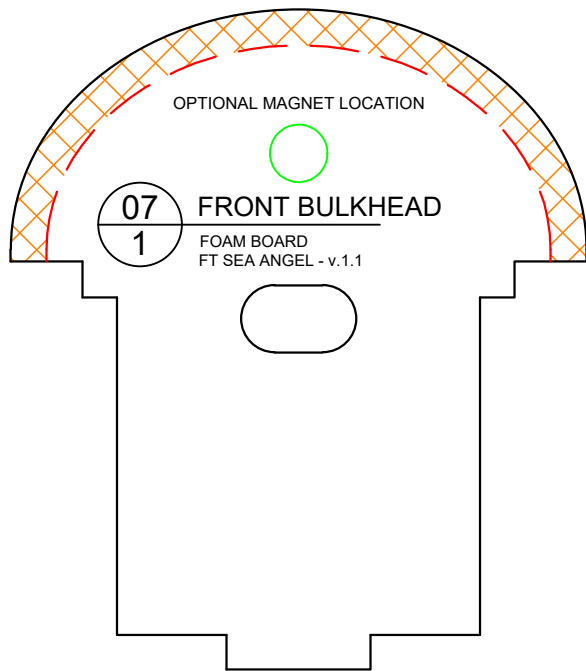
26 FUSELAGE BOTTOM  
1 FOAM BOARD  
FT SEA ANGEL - v.1.1

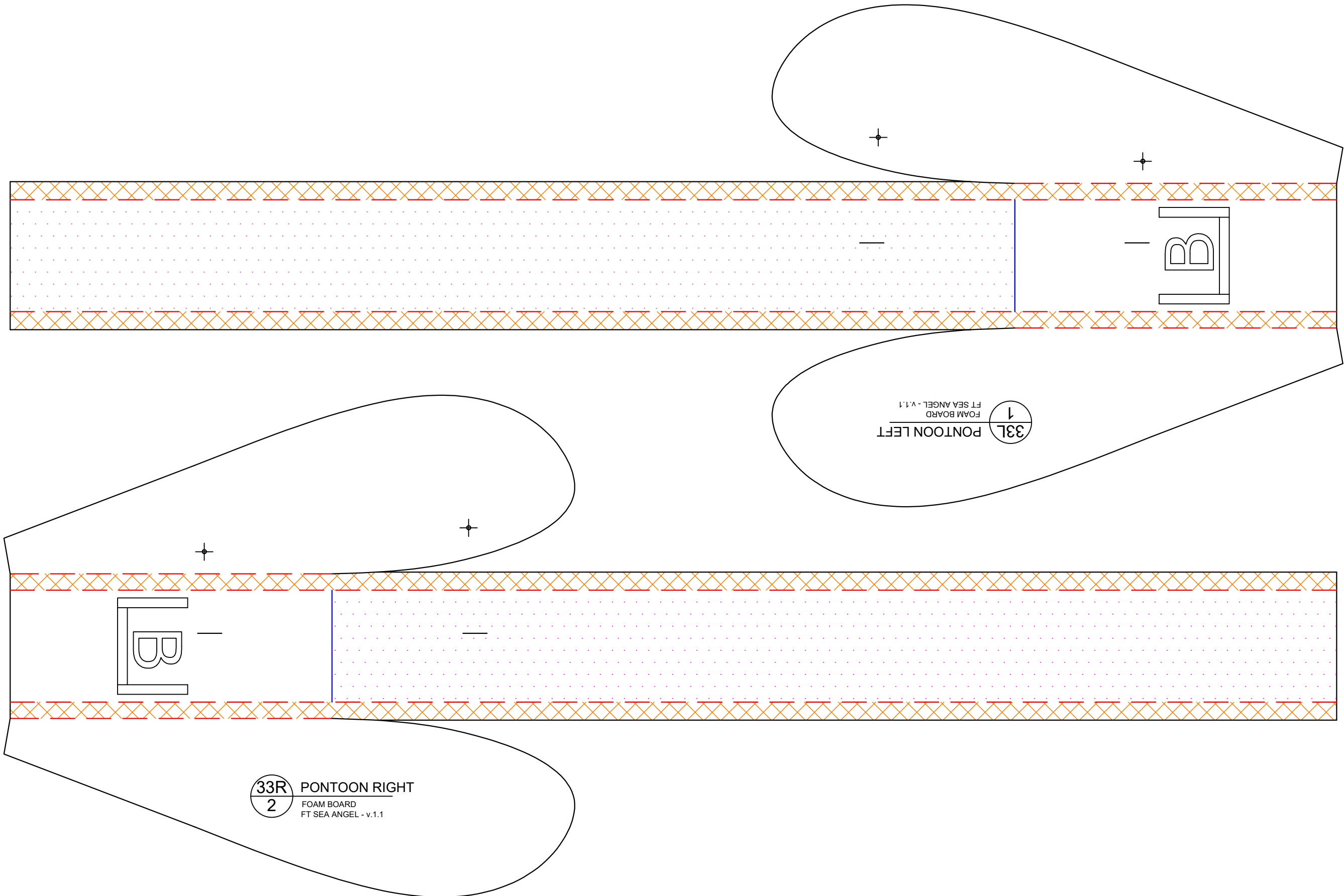
FUSELAGE  
FOAM BOARD  
FT SEA ANGEL - v.1.1

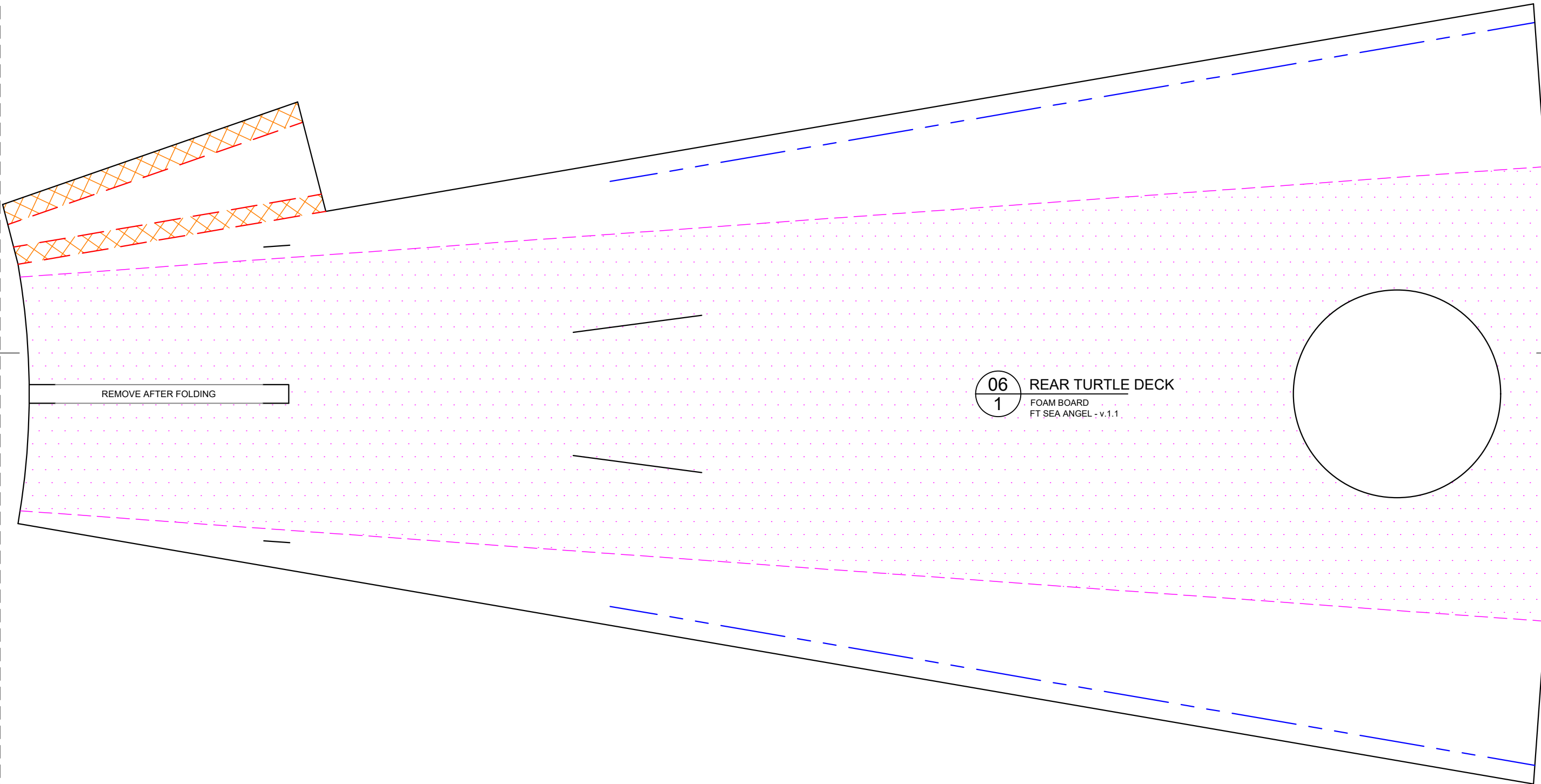
28  
1  
NOSE REAR TURTLE DECK  
FOAM BOARD  
FT SEA ANGEL - v.1.1

27  
1  
NOSE  
FOAM BOARD  
FT SEA ANGEL - v.1.1









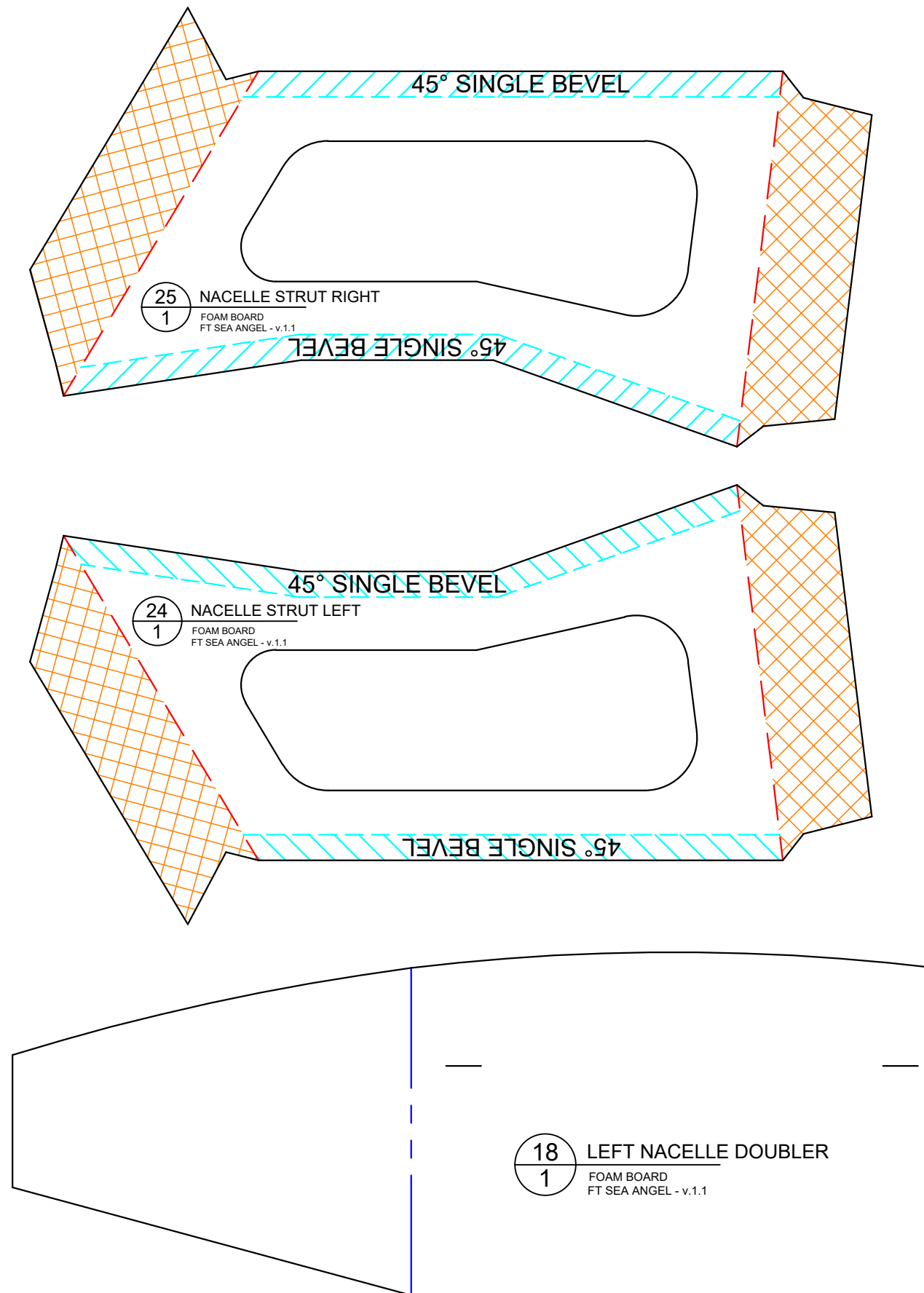
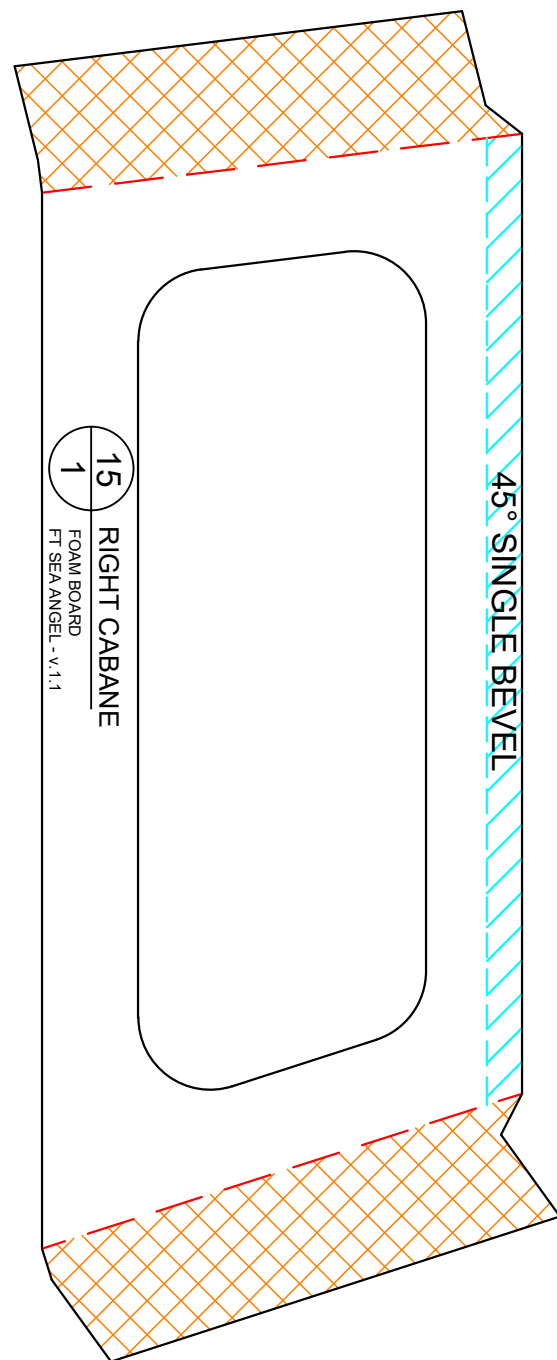
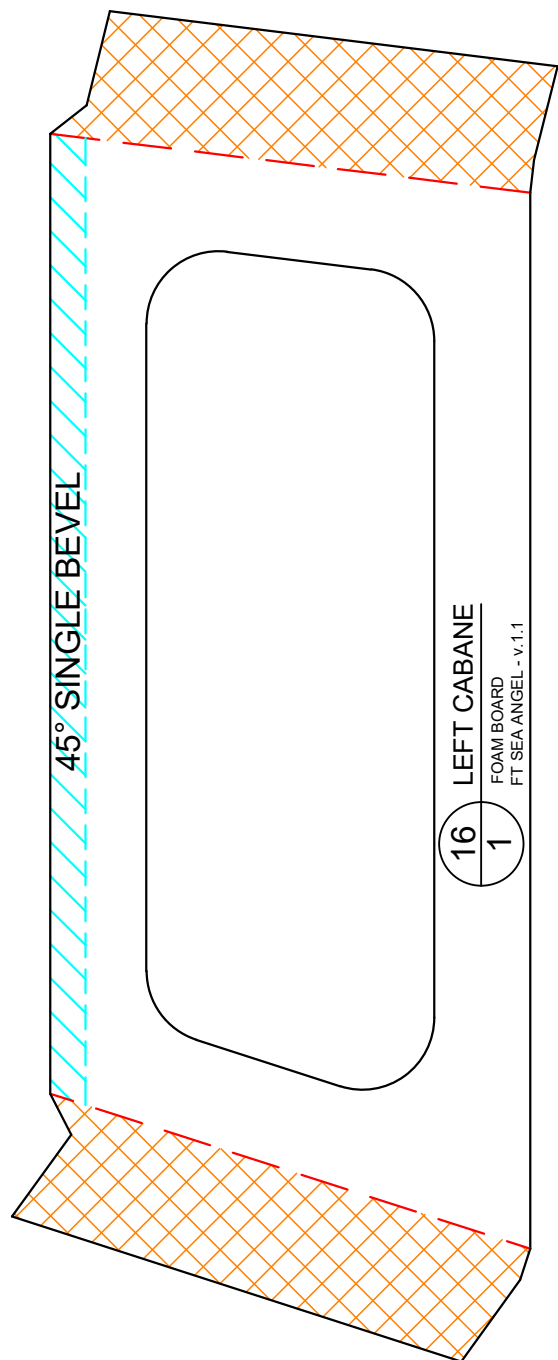
REMOVE AFTER FOLDING

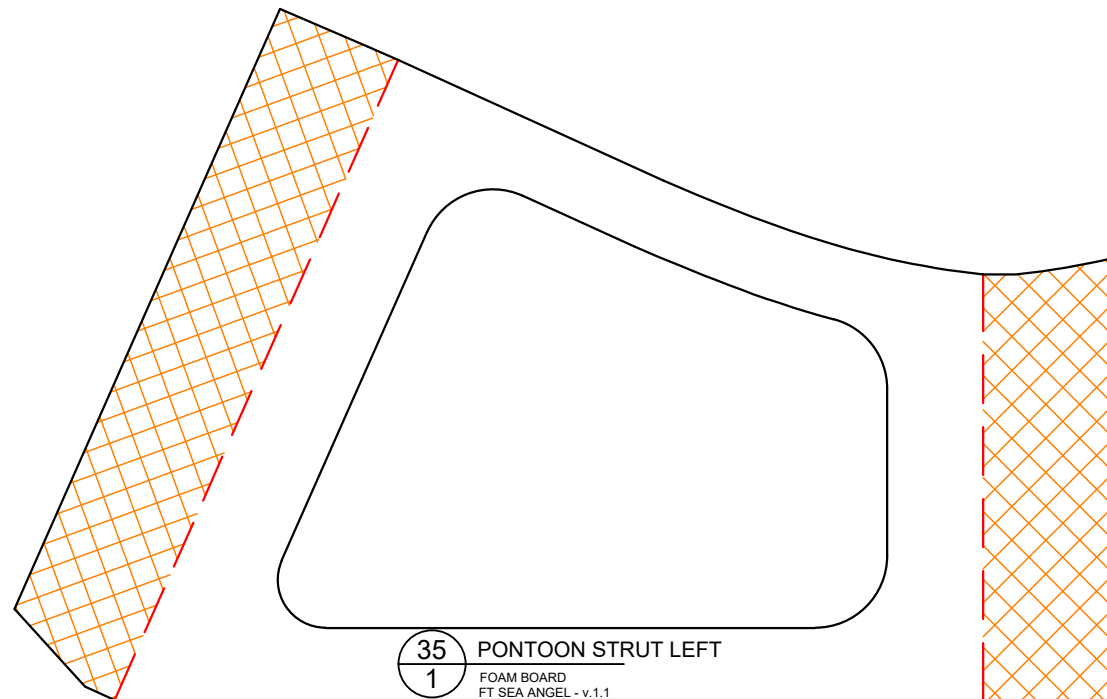
06  
1

REAR TURTLE DECK

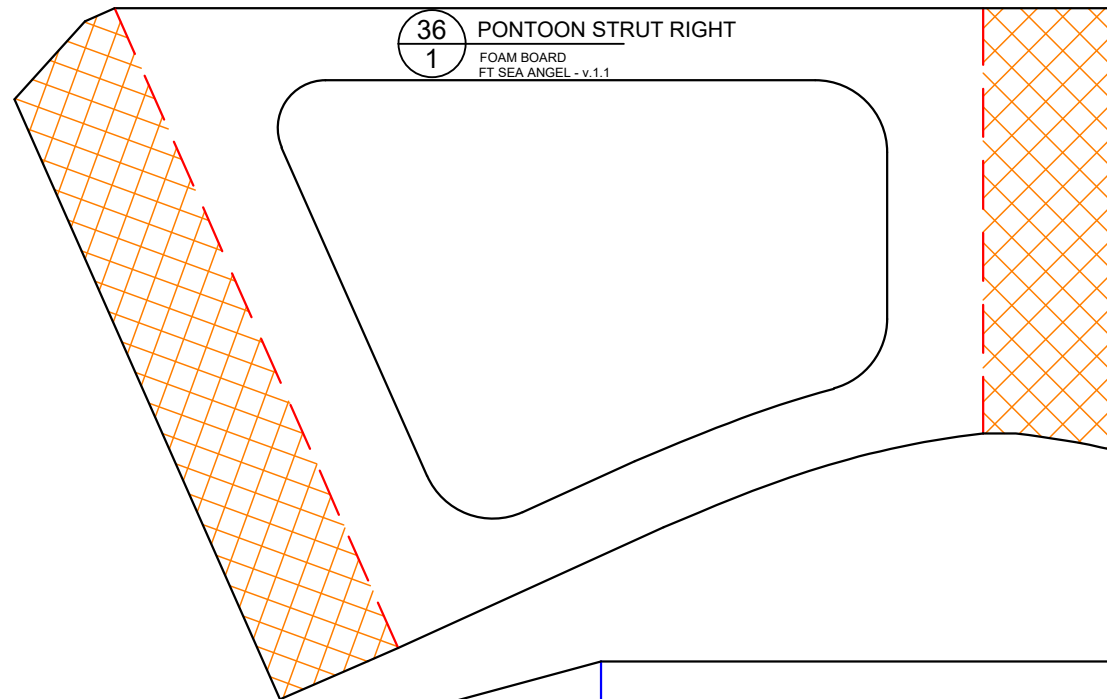
FOAM BOARD  
FT SEA ANGEL - v.1.1



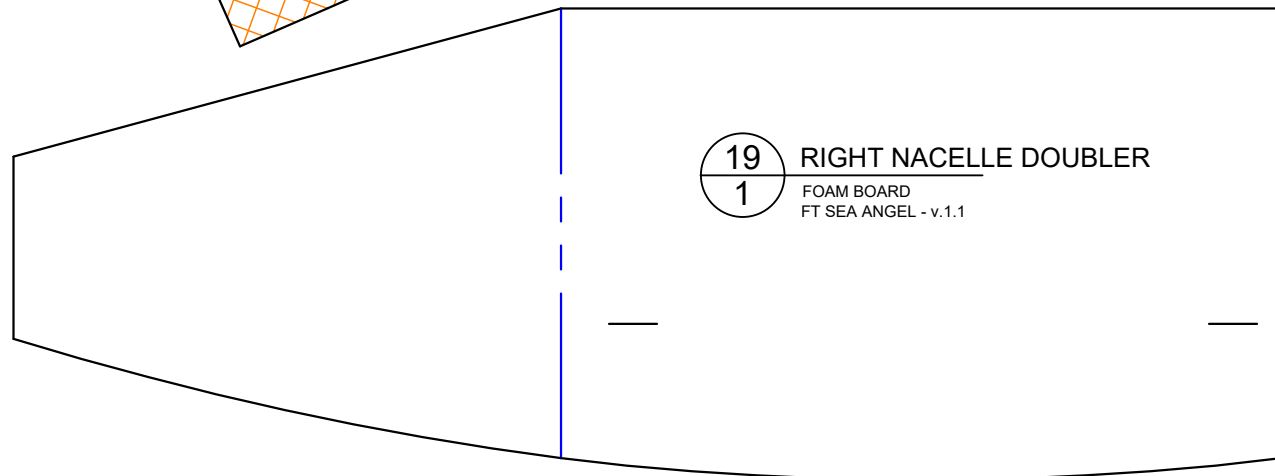




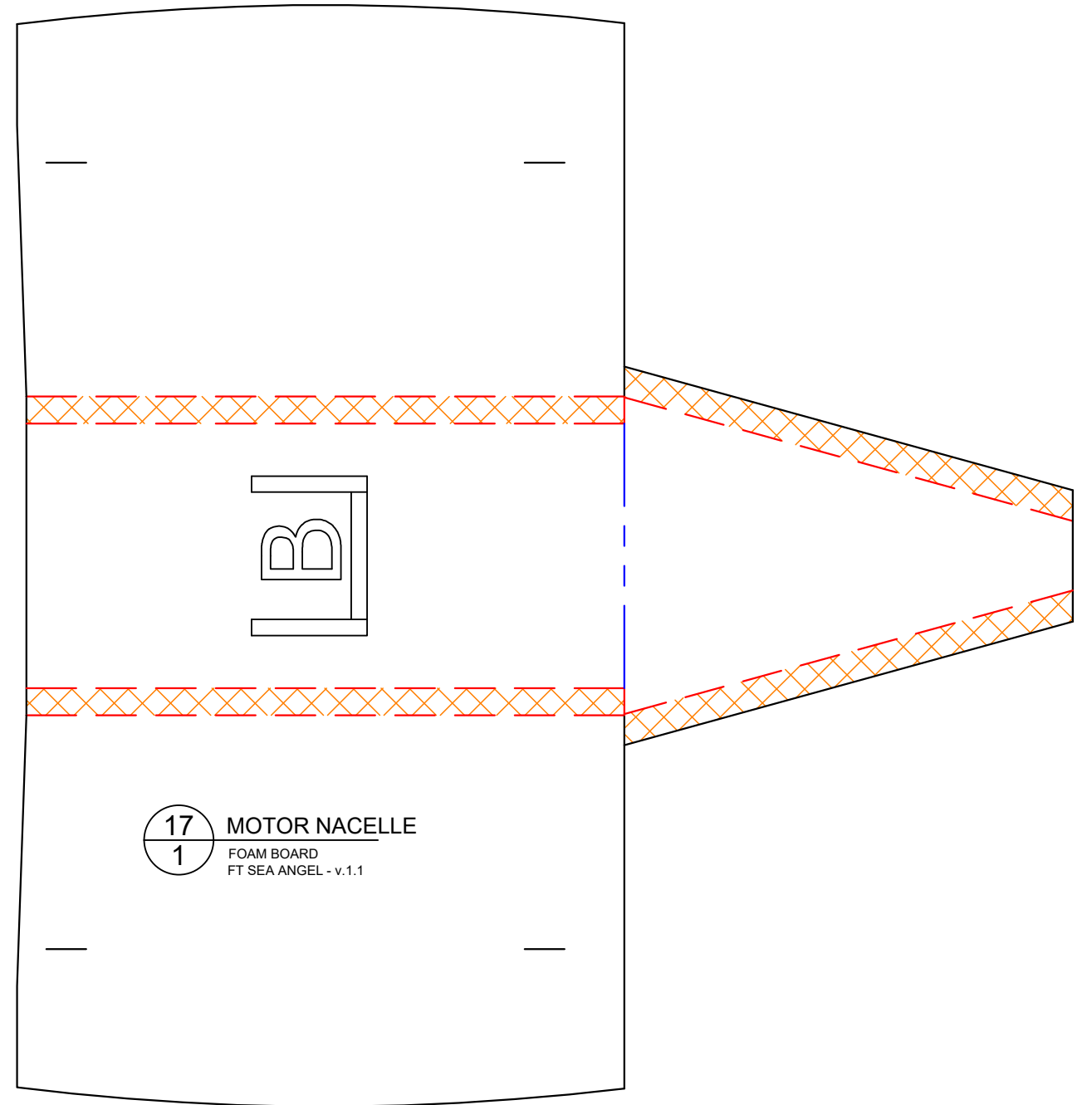
35  
1  
PONTOON STRUT LEFT  
FOAM BOARD  
FT SEA ANGEL - v.1.1



36  
1  
PONTOON STRUT RIGHT  
FOAM BOARD  
FT SEA ANGEL - v.1.1



19  
1  
RIGHT NACELLE DOUBLER  
FOAM BOARD  
FT SEA ANGEL - v.1.1



17  
1  
MOTOR NACELLE  
FOAM BOARD  
FT SEA ANGEL - v.1.1

