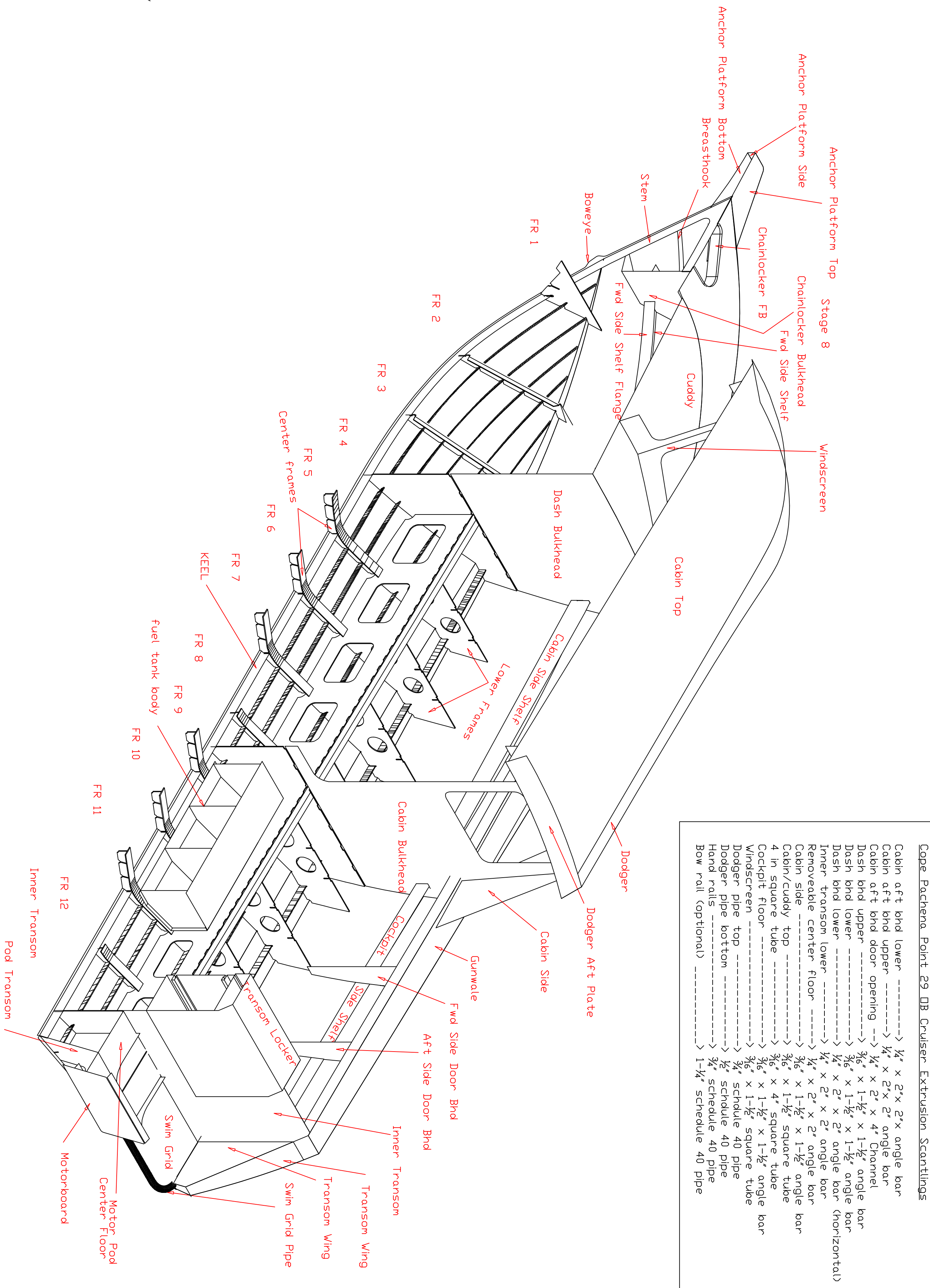
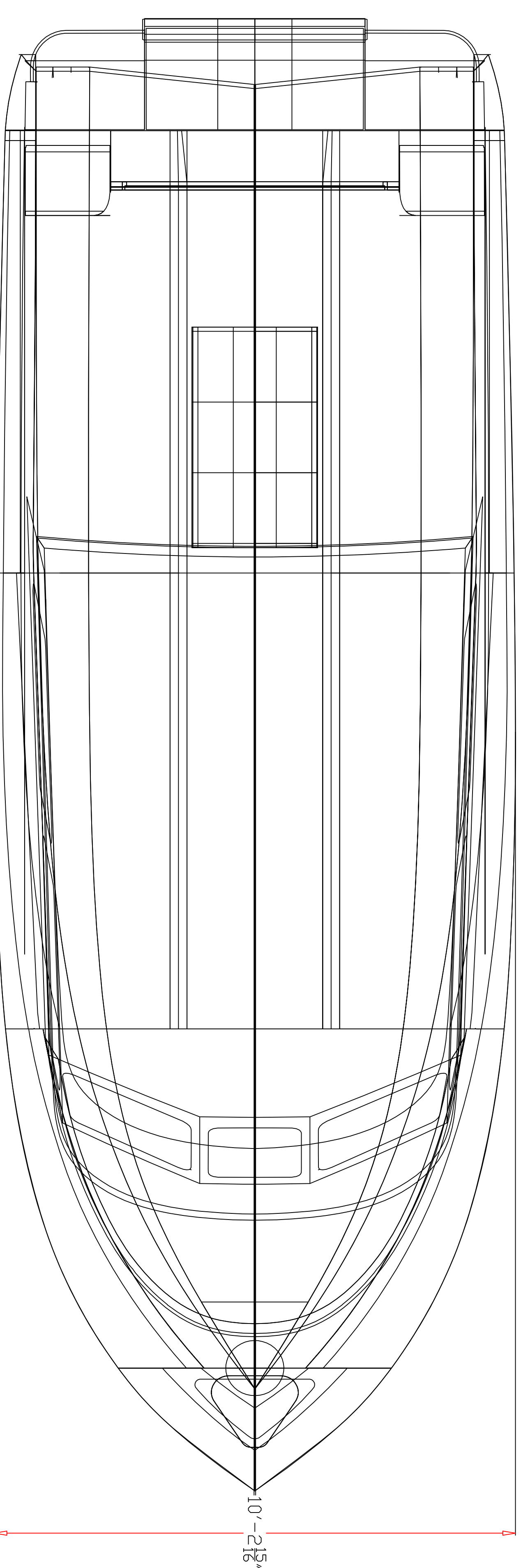
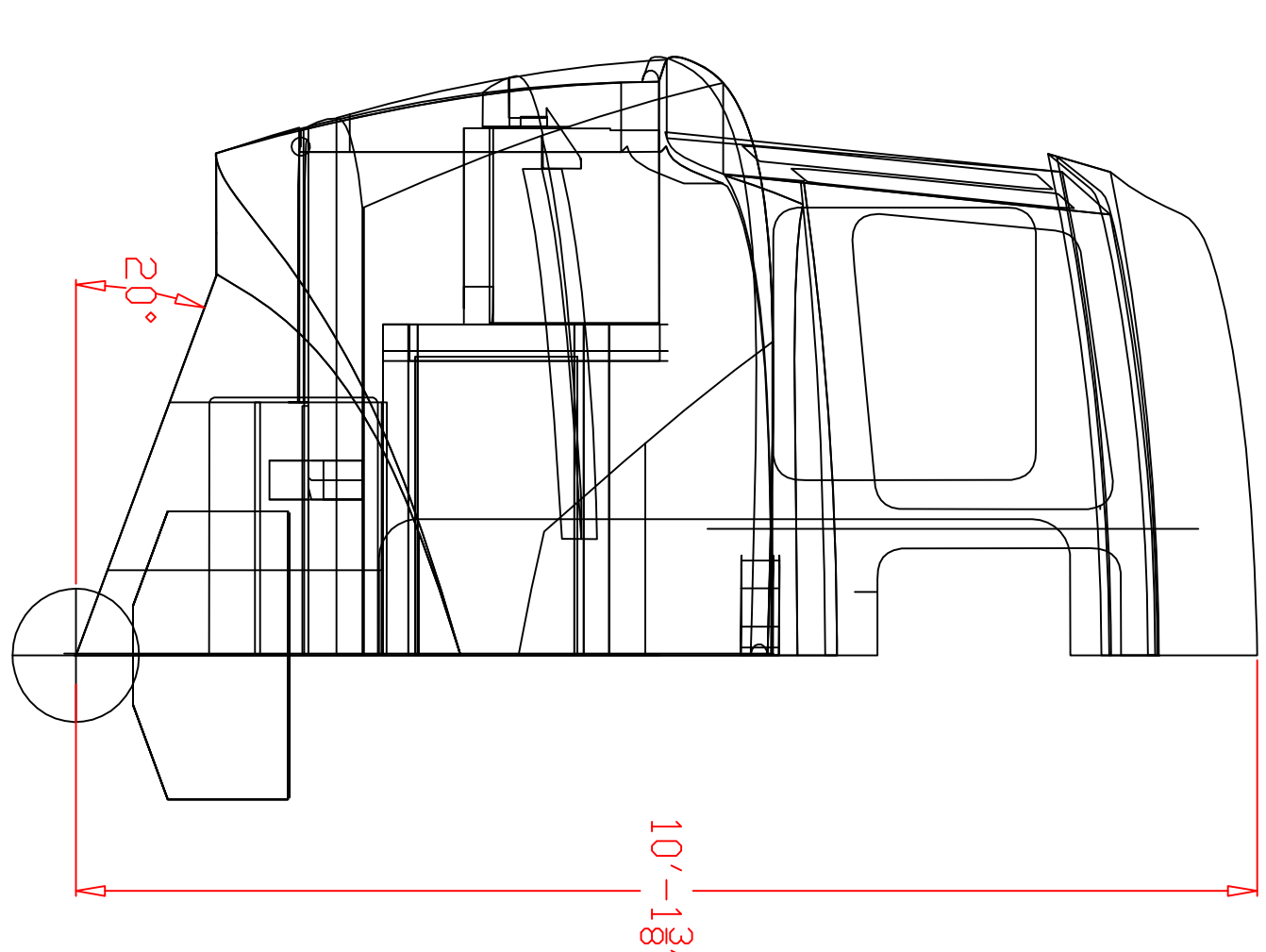
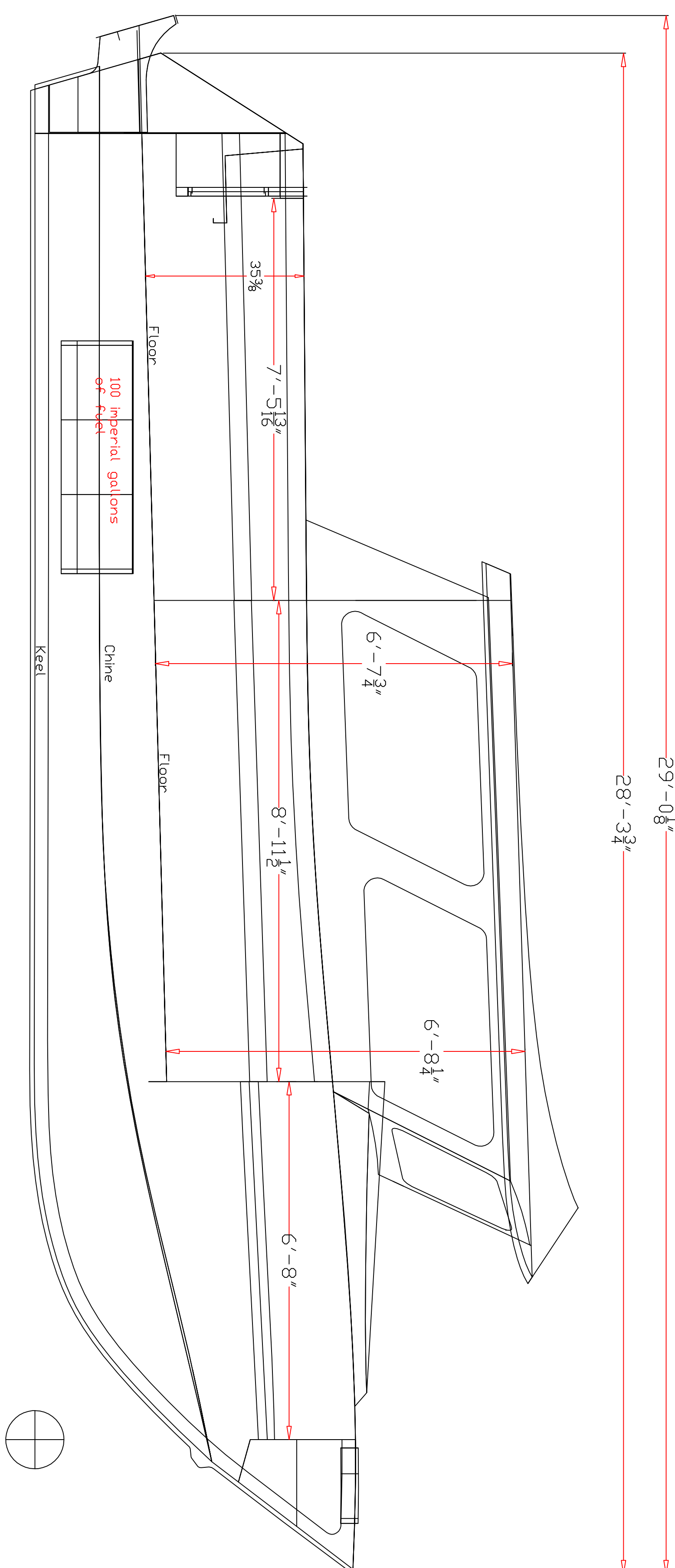


# Cope Pachena Point 29 (29ft X 10ft 6in DB Cruiser) Study Plan



Aluminum Plate List  
Cope Pachena Point 29 DB Cruiser  
Feb 28-2015

3/8" plate	1 sheet	3/8"x57"x12ft	-----	5086	H116
1/2" sheet	1/2"x57"x20ft	-----	5052	H32	
2 sheets	1/2"x44"x20ft	-----	5086	H116	
4 sheets	1/2"x57"x20ft	-----	5086	H116	
1 sheet	1/2" x 4ft x 8ft	-----	5086	H116	
3/4"	2 sheets	3/4"x57"x20ft	-----	5086	H116
2 sheets	3/4"x57"x20ft	-----	5052	H32	
1 sheet	3/4" x 4ft x 10ft	-----	5052	H32	
3/4"	1 sheet	3/4" x 4ft x 10ft	-----	5052	H32
There is a total of 28 sheets					

Weight of aluminum plate in the finished boat is 3842 lbs  
Weight of extrusions in finished boat is 669 lbs  
Total weight of aluminum in finished boat is 4511 lbs.

Extrusion List

Angle Bar	2" angle bar = 7 x 20ft lengths	3/4" x 4"	2" angle bar = 13 x 20ft lengths
Square Tube	3/8" x 1 1/2" square tube = 7 x 20ft lengths	3/8" x 4"	square tube = 2 x 20ft lengths
Channel	1/2" x 2" x 4" channel = 1 x 20ft length		
Pipe	1/2" schedule 40 pipe = 3 x 20ft lengths		
	3/4" schedule 40 pipe (optional bowrail) = 2 x 20ft lengths		

Cope Pachena Point 29 DB Cruiser Extrusion Scantlings

Cabin aft bhd lower -----> 1/2" x 2"x 2"x 2" angle bar  
 Cabin aft bhd upper -----> 1/2" x 2" x 4" channel  
 Dash bhd lower -----> 3/8" x 1-1/2" x 1-1/2" angle bar  
 Dash bhd upper -----> 3/8" x 1-1/2" x 1-1/2" angle bar  
 Dash bhd lower -----> 1/2" x 2" x 2" angle bar (horizontal)  
 Inner transom lower floor -----> 1/2" x 2" x 2" angle bar  
 Cabin side -----> 3/8" x 1-1/2" x 1-1/2" square tube  
 Cabin/cuddy top -----> 3/8" x 1-1/2" x 1-1/2" square tube  
 4 in square tube -----> 3/8" x 1-1/2" x 1-1/2" angle bar  
 Cockpit floor -----> 3/8" x 1-1/2" x 1-1/2" angle bar  
 Dodger top -----> 3/4" schedule 40 pipe  
 Dodger pipe bottom -----> 3/4" schedule 40 pipe  
 Hand rails -----> 3/4" schedule 40 pipe  
 Bow rail (optional) -----> 1-1/4" schedule 40 pipe

Designed by ABCOPE LTD.  
Designer-Bruce Cope  
March 4 2015