

Note: Dashed lines are forward edges of solid frame lines, a good approximation of aft edges of next forward frame.

**Frame Lofting:**

Use square frames worksheet to loft patterns for O to 24. Each numbered or lettered frame has a fore and aft component, lettered f and a respectively (eg. 21f, 21a).

For a given frame pattern O to G, 11 to 24: f forward edge will be dashed line forward of that solid frame line.

f aft edge will be the solid line for that frame.  
 a forward edge will be the solid line for that frame.  
 a aft edge will be the dashed line aft of that solid frame line.

For a given frame pattern O to G, 11 to 24: f forward edge will be next solid line forward.  
 f aft edge will be the solid line for that frame.  
 a forward edge will be the solid line for that frame.  
 a aft edge will be the next solid line aft.

**Frame Construction:**

For principle frames (even numbers, DF, (B), B, D, F, H, etc.), a and f components are assembled together in a single unit. Chocks optional.

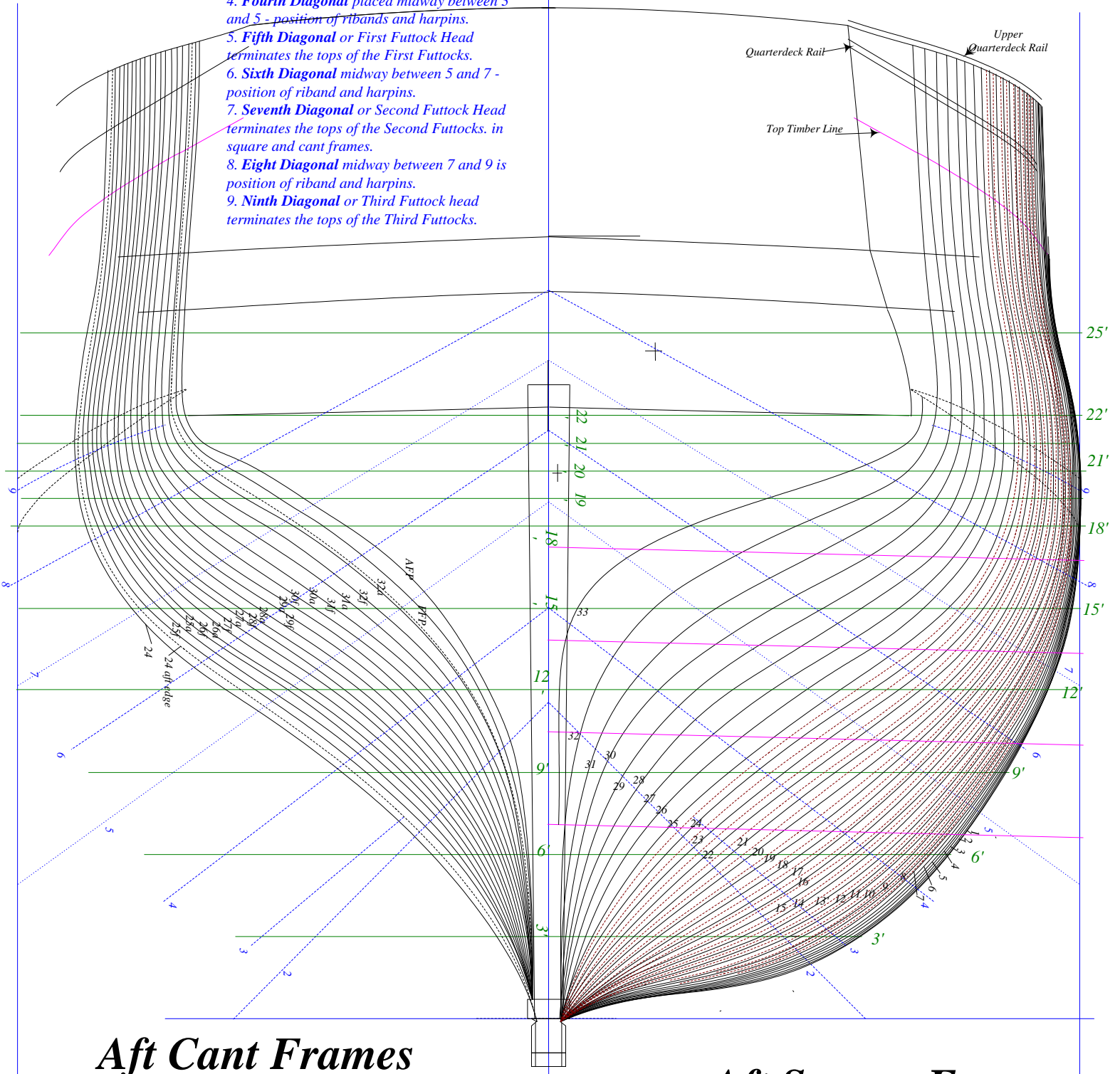
Intermediate frames (odd numbers, C, E, G, etc.) a and f components are assembled as separate units using chocked joints.

**HMS Naiad  
 Body Plan  
 1:60  
 2/28/10 Revision**

# NAIAD Aft Body Plan 1:60

**Diagonals:**

1. **Lower sirmark** - not shown on these drawings.
2. **Second diagonal** or Floor Sirmark.
- Position of lowest ribband and harpins.
3. **Third Diagonal** terminates the floors of square frames at their heads.
4. **Fourth Diagonal** placed midway between 3 and 5 - position of ribbands and harpins.
5. **Fifth Diagonal** or First Futtock Head terminates the tops of the First Futtocks.
6. **Sixth Diagonal** midway between 5 and 7 - position of ribband and harpins.
7. **Seventh Diagonal** or Second Futtock Head terminates the tops of the Second Futtocks in square and cant frames.
8. **Eighth Diagonal** midway between 7 and 9 is position of ribband and harpins.
9. **Ninth Diagonal** or Third Futtock head terminates the tops of the Third Futtocks.



## Aft Cant Frames

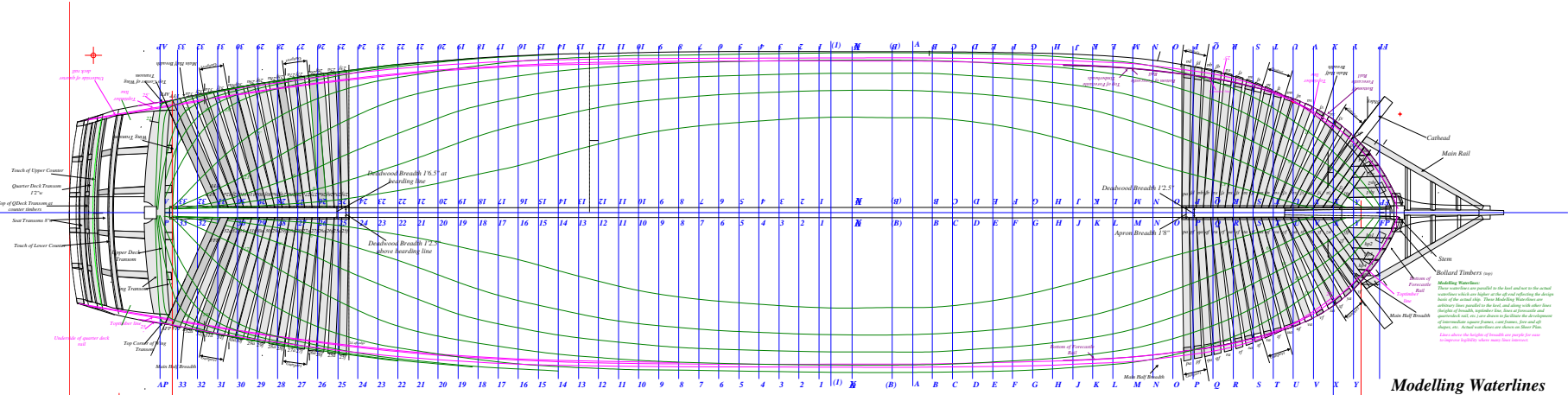
*aft edge profiles*

Note: This view of cant frames is on a line of sight parallel to the keel and is therefore not a true view of the cant frame shape. These profiles are rotated to a true view on the cant frame worksheet for each frame to develop patterns for these frames.

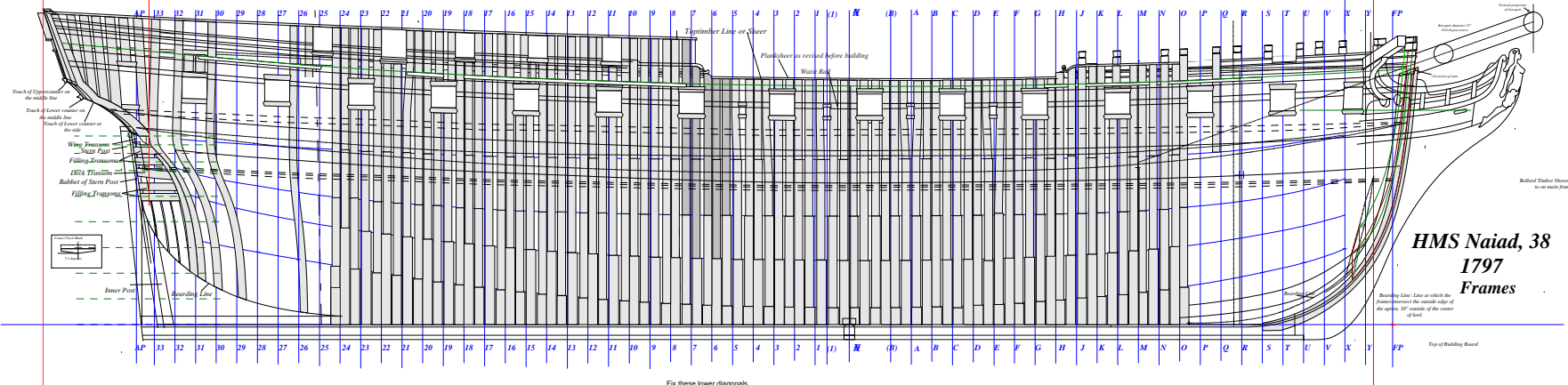
## Aft Square Frames

Rev. 5/29/10

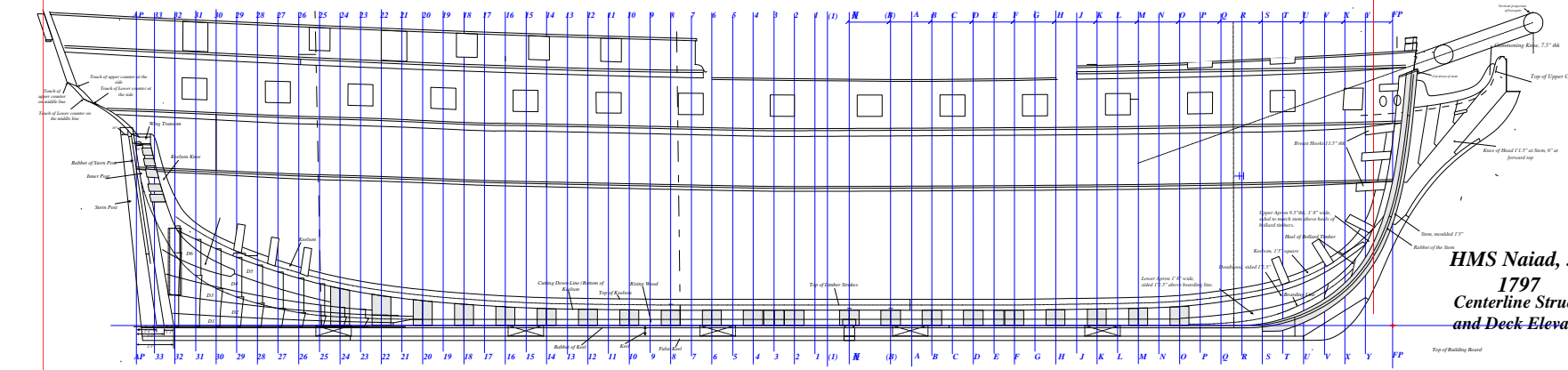
Note: For frames 24 forward to 7 dashed lines represent shape of aft edge of aft frame for that station. This line is an approximation of forward edge shape for forward frame at that station. From 7 to DF use single profile for pattern, next line aft of station line for aft frame, station line for fore frame.



**Modelling Waterlines  
Cant Frames**



**HMS Naiad, 38  
1797  
Frames**



**HMS Naiad, 38  
1797  
Centerline Structure  
and Deck Elevations**