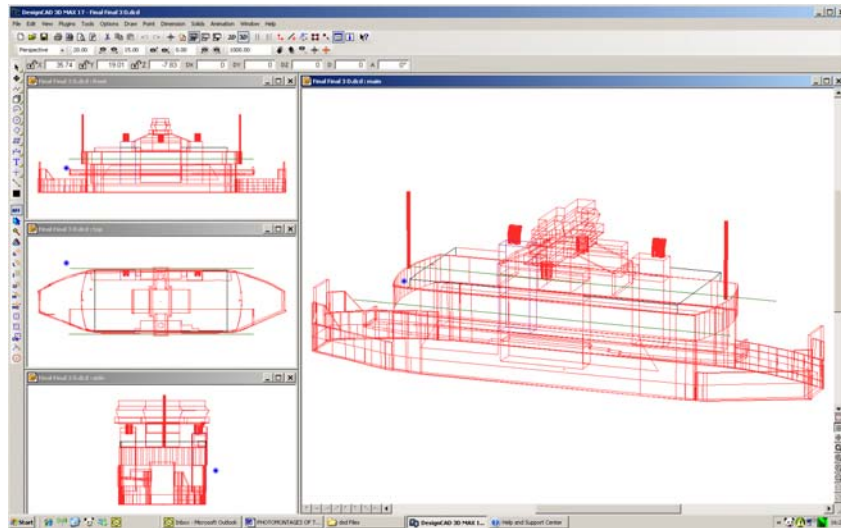


## HOW TO PHOTOGRAPH THE WIGHT-CLASS FERRIES

### The CAD Model

The first step in looking at the Wight-Class ferries was to derive the dimensions of the ferries from the. The Wightlink-provided plans (plan and profile) were entered into a CAD (Computer Aided Design) software package from which the various dimensions can be readily derived. The results of this analysis are given in the LRA Dimensions Document.



From this, the software package (with a great deal of help) generates a 3-dimensional model (see right). This model can be viewed in perspective from any angle.

The first step in producing the picture is to take a photograph of an existing ferry and load it into a photograph-processing package (in this case Adobe Photoshop Elements). The foreground is extracted and put into a different "layer".



The perspective view of the 3-D model is adjusted to give the same viewpoint as that of the existing ferry



The view is then imported into Photoshop and laid on top of the existing ferry matching waterline to waterline. The size of the perspective view from the CAD software is then adjusted such that the height of the deck of the C-Class (which had been added to the Wight-Class model) fitted exactly with that of the C-Class ferry in the photograph. See the horizontal line on the model half way down the windows of the Wight-Class.



Then there is the rather laborious task of "colouring in" the perspective outline and



Finally the model is hidden and the rest of the picture including the foreground put back.



As a test of the accuracy of this approach, the model was put over a Wightlink photo of the Wight-Class ferry just after launch:



The process is not complicated but can be a bit frustrating and a key requirement is a dog (or cat) to kick when it all goes wrong.