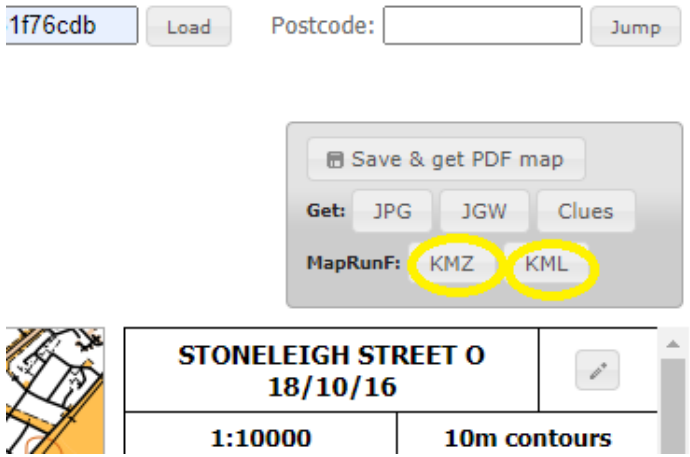
STEP ONE - Design your course using www.oomap.co.uk in the normal way but bear in mind the following:

1. Try to make sure that the start and finish control is located somewhere the competitors will not run past again on the way to another control as this would stop their run. Whilst it is their responsibility to avoid doing so, by locating the start in a cul-de-sac or car park etc. you should avoid this problem.
2. Do not locate any controls in tunnels, underground car parks, very narrow alleyways flanked by high sided buildings etc. as the GPS signal will be weak. The app should work fine in forest.
3. As people will be running the course at different times of the day, you should avoid any areas that are not open 24/7 like parks etc. For my event, I marked parks with locked gates as Out of Bounds and threatened to disqualify anyone who entered them even if they run it at a time that it is open. You can mark areas as OOB by using another bit of free software called Purple Pen.
4. If you use a control site that is located a short distance from the road/pavement, for example, a sign on a house or hall/school, make sure you locate the GPS point (in Step 3 below) on the pavement where the competitor would be when writing down the answer (i.e. don't locate it on the actual site).
5. The penalty on the scoring system will be **MINUS 30 POINTS** per minute or part therof late. This is set in the app and cannot be changed unfortunately.

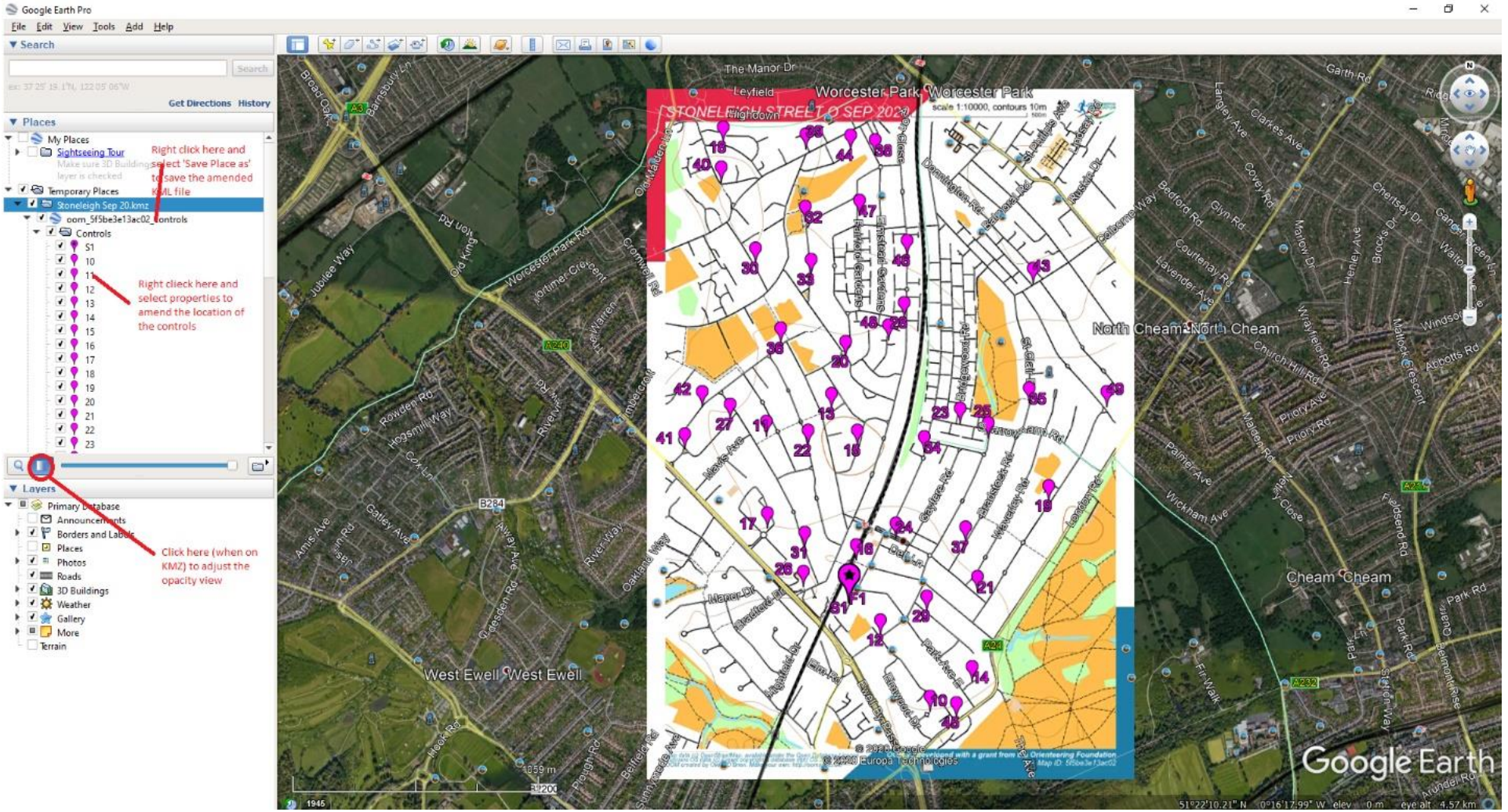
STEP TWO – Convert your completed course to the KMZ and KML files needed for the app.

Once finished, export your course as KMZ and KML files using the function on the OOMap website.



STEP THREE – Adjust the controls to the exact GPS location required using Google Earth Pro

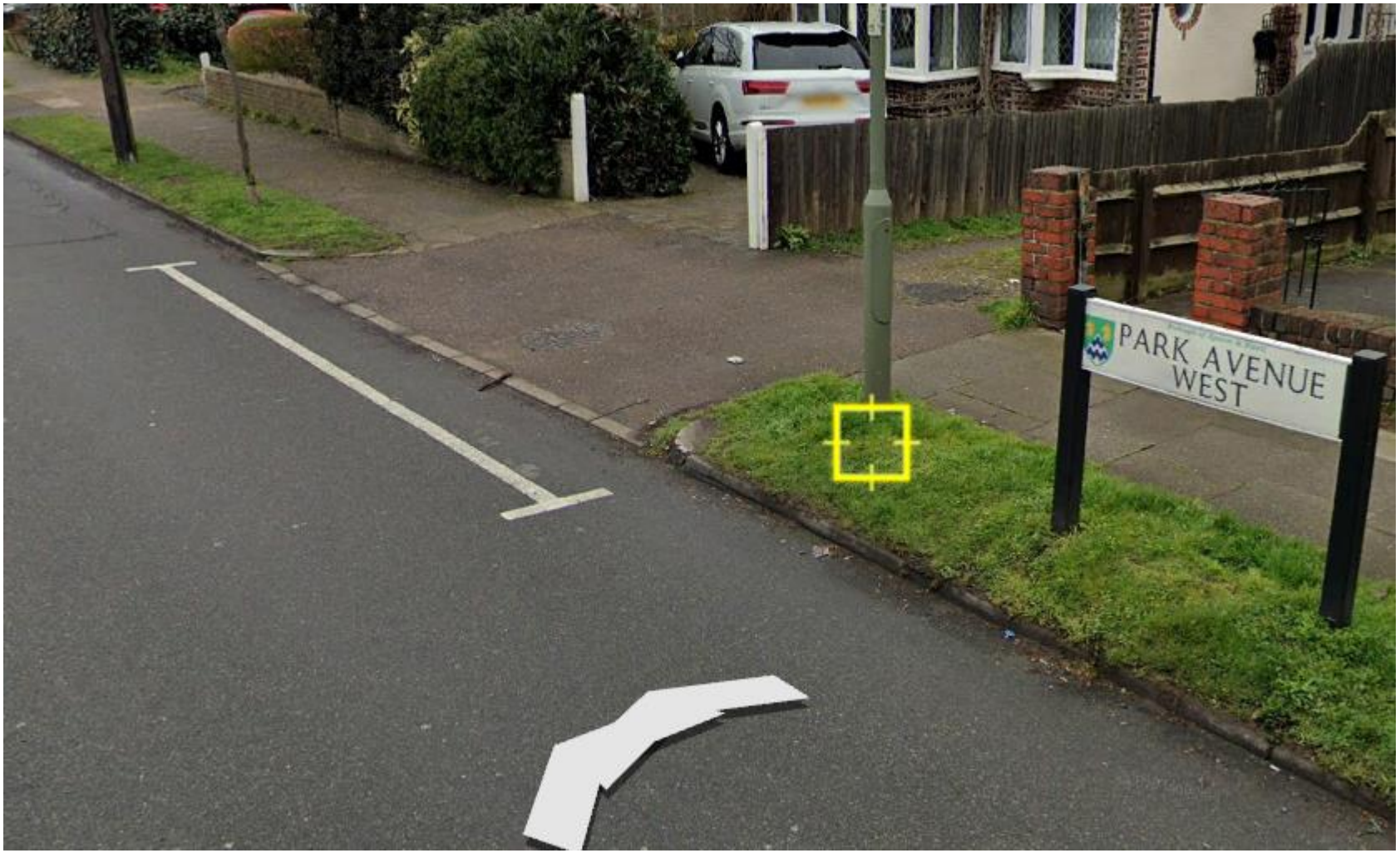
Open both the KMZ file and KML files at the same time in Google Earth Pro (free to download) on a PC/laptop. Once opened it should look like below.



When the KMZ file is selected you can adjust the opacity of the map file. By reducing it, you can see the satellite view behind it.

To select a control to view, left click on it in the left-hand menu and zoom in.

To amend the control position, right click on the control number in the left-hand menu and select properties. A yellow flashing box will appear, and you can drag this to the correct location. For each control, view either from above on satellite view, or on street view (drag the yellow man in the top right of the screen) and simply re-position to the right place. Press OK to save this position. Examples of views in satellite and street view are shown below. If any controls are located off roads, (in alleyways, fields, parks etc.) you will not be able to view on Street view for site location.



When you have repositioned all controls, right click on the controls top header in the left hand menu and select 'Save Place As…' and save the amended new KML file (be sure to change the file type to KML as it will default to KMZ), calling it what you like.

STEP FOUR – Test the control locations work in the real world

Upload the KMZ and KML files to the Check Sites function of MapRunF at the following location: http://www.p.fne.com.au/#/checksitesupload
A PIN code will appear at the bottom of the webpage once you have successfully uploaded it.

In the MapRunF app main page, click the 3 horizontal bars in a green circle button (bottom right) and then click ‘Check Sites’ You will be prompted for the PIN number you were issued when you uploaded to the site.

Once your course is selected you can now amend the ‘Options and Settings’ for this test course. You may wish to allow the ‘Display present location’ and ‘Display track’ options (which will be disabled for the live event).

Physically visit control sites using CheckSites (you may want to do this in 2 trips!) and hopefully everything works. Once complete you may want to email your GPS track by email to yourself to view on Google Earth Pro.

If not, you can open your GPX track (from your phone or watch) in Google Earth Pro and see where the control is correctly located and then amend the KML file. So, if one control doesn't beep in the right place, do a little 5m circle around the correct location so you can see on the GPX track where you need to move it to.

STEP FIVE – Upload the course and map to MapRunF

Once tested to your satisfaction, email me the KMZ and KML files and I will upload on to the live database and give you the password you will need to pass to the competitors.

If you only made minor changes to the control site locations, you won't need to amend the OOMap PDF course. However if you have moved any of the controls a fair distance it might be because you have not sited it right on OOMap and you may wish to change the OOMap course to correctly locate a control. If you do change the OOMap, do not then re-export the KML file, use the one you have used above.

If you have any questions or are struggling, please contact me.

Justin Farhall – justin_farhall@hotmail.com - 07786265087