

3.3 Option 3: Segregated Cycle Route with Single Phase Crossings (3+1 Traffic Lanes)

Option 3 proposes the same lane removals as in Option 2 and also includes single crossings over Portobello High Street, Sir Harry Lauder Road, Inchview Terrace and King's Road. The designated cycle lane from Portobello High Street to Inchview Terrace is retained, but due to the crossing width exceeding the desired maximum of 15m, a southbound lane on Sir Harry Lauder Road is required to be removed.

In comparison to two phase crossings, single crossings may appear to improve crossing provision for cycles and pedestrians, however, this is not always the case. Single crossings require a general traffic all stop phase in the traffic signal cycle, which occurs once every two minutes. If needing to cross multiple arms [e.g. Portobello High Street (eastern side) to Seafield Road East (western side)] a pedestrian would be required to wait up to six minutes (three crossings). Whereas two phase crossings offer more opportunities throughout the two minute signal cycle to cross sections of each junction arm.

The proposed layout for Option 3 is shown in Figure 3.3.

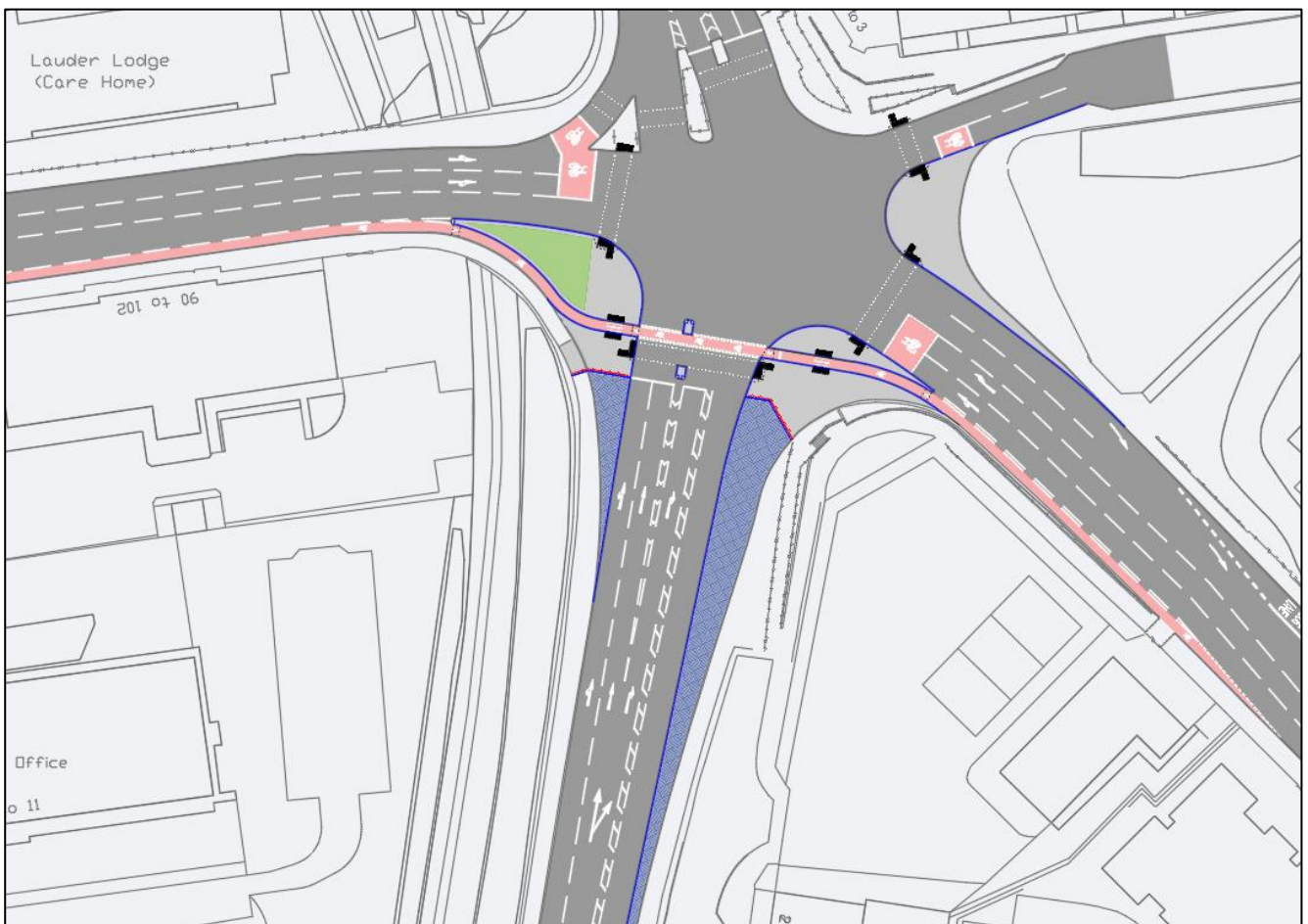


Figure 3.3: Option 3 – Segregated Cycle Route with Single Phase Crossings (3+1 Traffic Lanes)