

Proposed Tram Cycle Safety Improvements: Phase 3

Cyclist Traffic Signal Early Release



What is cycle early release signal phasing?

An “early release” is a green signal for cyclists that allows them to move off before other traffic. This involves adding a 4th signal ‘aspect’ to the traffic signal head, beneath the standard re-amber-green.

The length of the “early release” can vary depending on the conditions. Generally 3 seconds is initially given for bikes, plus a further 2 seconds normal red-amber phase, before other traffic is released on a standard green signal.

This gives cyclists a head start over other traffic to negotiate the busy junction and to make their intentions clear to drivers / riders behind.

Following the implementation of early release signals for cyclists in York, the number of collisions involving cyclists has reduced (Department for Transport, 2016).



Cyclists around the Tram lines

We know that areas where cycle routes cross tram tracks present risks to people cycling; this is exacerbated when the road is mixed between trams, vehicles and people cycling; and furthermore when there is no promoted cycle facility.

The addition of early release signal staging on some of these junctions will give people on bikes extra time and comfort to cycle safely through these areas and make decisions on manoeuvre and crossings when starting from stationary at the junction. This will reduce the number of dangers and variables, allowing people on bikes to have greater confidence and safety when crossing tram tracks.

Tram Ph.3 Proposals

Please see map overleaf which highlights the junctions and approaches proposed for the installation of cycle early release signal phases.

Leith Walk at McDonald Road/Brunswick Road

Cyclist early release signals were installed around the junction of Leith Walk and McDonald Road/Brunswick Road in September 2017. Evaluation of the early release at this junction has shown that these are well used by cyclists and those performing turns in the junction.

Junctions excluded from Early Release proposals

Some junctions along the tram route are not suitable for the installation of early release signal phasing. This is due to:

- 1) Split signal phases for traffic
- 2) Where advance stop boxes for cyclists cannot be provided due to conflicts with Tram equipment

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List of proposed cycle early release locations:

Junction No.	Location	Approach Arms
1	York Place/ North St Andrew Street	Westbound
		Eastbound
2	North St Andrew Street/ St Andrew Square	Southbound
		St Andrew Square
3	South St Andrew Street/ St Andrew Square	Southbound
4	Princes Street/ Waverley Bridge	Westbound
5	Princes Street/ South St David Street	Eastbound
6	Princes Street/ The Mound	Westbound
		Eastbound
		Southbound
		Northbound
7	Princes Street/ Frederick Street	Eastbound
		Frederick Street
8	Princes Street/ South Charlotte Street	Westbound
		South Charlotte Street
9	Princes Street/ Lothian Road	Eastbound
		Lothian Road
10	Shandwick Place/ Princes Street	Queensferry Street
11	Atholl Place/ Manor Place	Westbound
		Eastbound
		Manor Place
12	West Maitland Street/ Palmerston Place	Palmerston Place
13	Haymarket Junction	Eastbound
		Morrison Street to West Maitland St
		Morrison Street to Haymarket Terrace
		Morrison Street to Dalry Road
		Dalry Road
14	Haymarket Yards	Grosvenor Street
		Eastbound
		Haymarket Yards

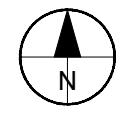
KEY

● SUITABLE FOR CYCLE EARLY RELEASE

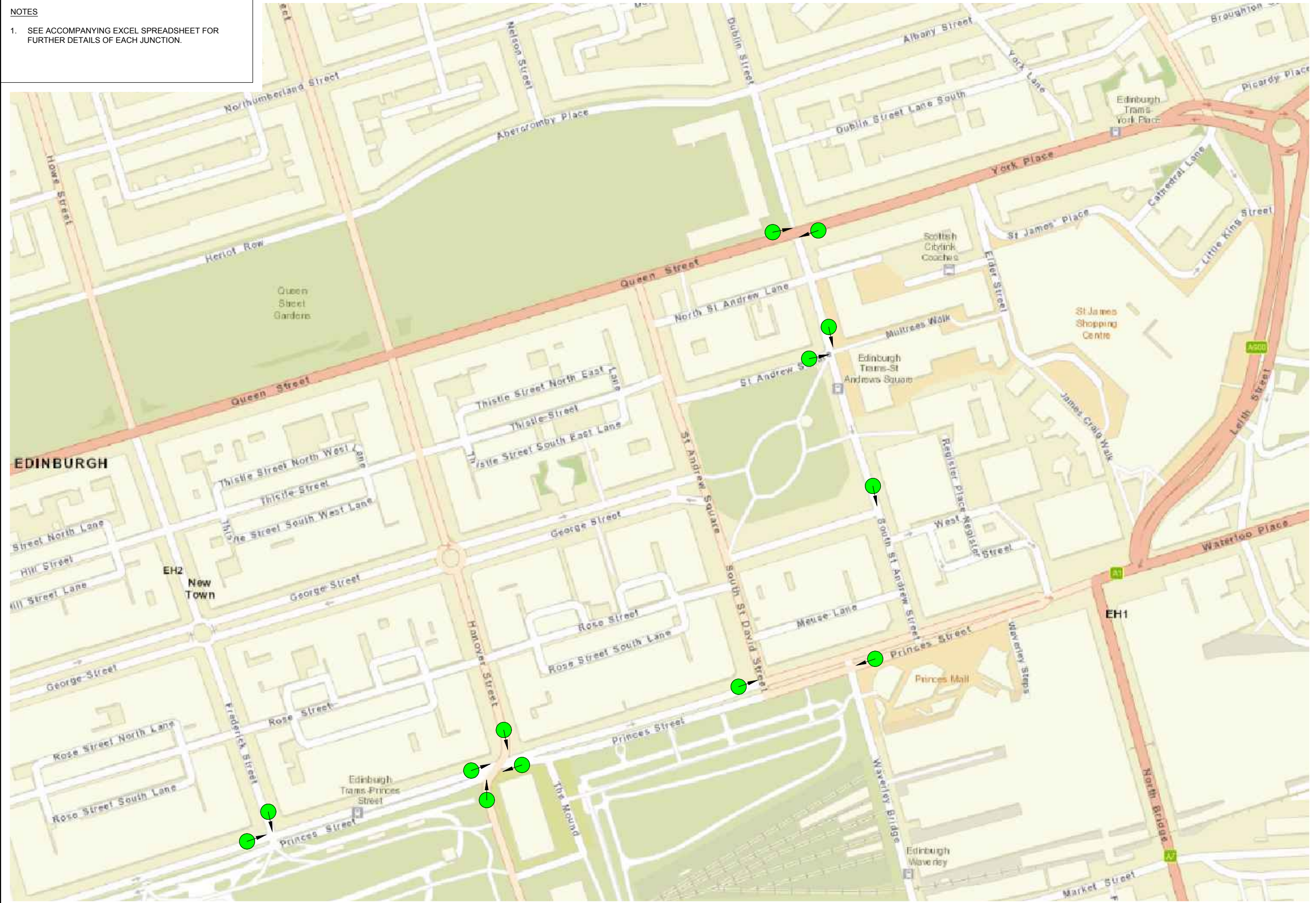
← DIRECTION OF TRAVEL

NOTES

1. SEE ACCOMPANYING EXCEL SPREADSHEET FOR FURTHER DETAILS OF EACH JUNCTION.



- NOTES**
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KEY PLAN

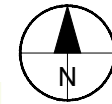
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KEY

- SUITABLE FOR CYCLE EARLY RELEASE
- ← DIRECTION OF TRAVEL

NOTES

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60487449

4.0 TRAM
 CYCLE EARLY RELEASE
 SITE LOCATIONS - 2 OF 2

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