

Appendix C – Journey Time Summary

Introduction

The Hereford Transport Model (HTM) has been used to assess the impacts of the following potential highway schemes, in terms of journey time changes on the surrounding network compared to a Do Nothing Scenario (where no changes to the road network are assumed). This appendix should be read in conjunction with the traffic flow summary in Appendix B.

The schemes are:

- Eastern River Crossing (ERiC)
- The Hereford Western Bypass (HWB) - Southern Link Road (SLR) & Western Bypass (WB).

Schematic maps have been produced to demonstrate more visually the impacts of the schemes on the network. Maps have been produced showing journey time changes based on the following scenarios using the 2032 model:

- ERiC (AM & PM peak) compared to the Do Nothing
- HWB - SLR & Western Bypass (AM & PM peak) compared to the Do Nothing

The HTM provides outputs by direction for a number of links across Herefordshire. To aid with the mapping and visual interpretation, the directional outputs have been averaged to provide one figure (% change in journey times) for each link.

Journey time changes with both the implementation of ERiC and the implementation of the HWB (SLR & Western Bypass) scheme in the AM Peak are set out in **Table 1** and displayed in map format in **Figure 1** and **Figure 2**. These are based on changes to journey times along the shorter routes along the network.

The routes are shown in different colours on the maps but can also be summarised as:

Route 1 – A49 Victoria Street from A465 Asda junction to the A438 Blueschool Street at its junction with A465 Commercial Road.

Route 2 – A49 Edgar Street from its junction with A438 Blueschool Street to A49 Holmer Road at its junction with A4103 Roman Road.

Route 3 – A465 Commercial Road from its junction with A438 Blueschool Street to the A4103 at its junction with the A465.

Route 4 – A438 from its junction with A465 Commercial Road to its junction with ERiC (near the Cock of Tupsley pub).

Route 5 – A49 Ross Road from its junction with the B4399 Rotherwas Link to its junction with the A465 Belmont Road.

Route 6 – A465 Belmont Road from its junction with the A49 Ross Road to the junction with Abbotsmead Road.

Route 7 – A438 Whitecross Road from its junction with the A49 to the A480 junction to Stretton Sugwas.

Route 8 – The B4399 Rotherwas Link from its junction with the A49 Ross Road to the junction with the B4399 Straight Mile.

Route 9 – A49 Ross Road from its junction with A465 Belmont Road along Holme Lacy Road and the Straight Mile to its junction with the B4399 Rotherwas Link Road.

Route 10 – Eastern River Crossing and Link Road.

Table 1 - Journey time changes: ERiC vs Do Nothing and HWB vs Do Nothing (AM Peak) (Shorter Routes)

Ref	Direction	Do Nothing	ERiC	Difference	ERiC Average (Directions Combined) (mm:ss)	HWB (SLR+WB)	Difference	HWB (SLR+WB) Average (Directions Combined) (mm:ss)
1	Northbound	07:07	05:18	- 01:49	-01:17	05:11	- 01:56	-01:16
1	Southbound	05:13	04:28	- 00:45	-01:17	04:36	- 00:37	-01:16
2	Inbound	05:53	05:34	- 00:20	-00:12	04:47	- 01:07	-00:53
2	Outbound	05:06	05:03	- 00:03	-00:12	04:27	- 00:39	-00:53
3	Inbound	08:20	07:53	- 00:27	-00:14	08:02	- 00:18	-00:11
3	Outbound	06:21	06:21	00:00	-00:14	06:18	- 00:03	-00:11
4	Inbound	07:38	07:05	- 00:33	-00:17	07:27	- 00:11	-00:09
4	Outbound	06:07	06:07	- 00:00	-00:17	06:00	- 00:07	-00:09
5	Inbound	07:51	06:32	- 01:19	-00:44	06:05	- 01:46	-01:04
5	Outbound	04:54	04:45	- 00:09	-00:44	04:34	- 00:21	-01:04
6	Inbound	05:20	04:51	- 00:30	-00:18	04:21	- 00:59	-00:39
6	Outbound	03:48	03:43	- 00:05	-00:18	03:29	- 00:19	-00:39
7	Inbound	07:15	07:32	00:17	00:10	07:15	- 00:01	-00:02
7	Outbound	06:28	06:30	00:02	00:10	06:26	- 00:02	-00:02
8	Eastbound	02:40	02:58	00:18	00:13	02:58	00:17	00:12
8	Westbound	02:29	02:38	00:08	00:13	02:35	00:06	00:12
9	Eastbound	06:20	06:09	- 00:11	-00:12	05:55	- 00:24	-00:27
9	Westbound	06:07	05:55	- 00:12	-00:12	05:37	- 00:30	-00:27
10	Northbound	n/a	02:52	n/a	n/a	n/a	n/a	n/a
10	Southbound	n/a	03:00	n/a	n/a	n/a	n/a	n/a

Journey time change maps are shown overleaf.

Figure 1 - Journey time changes - ERiC vs Do Nothing (AM Peak)

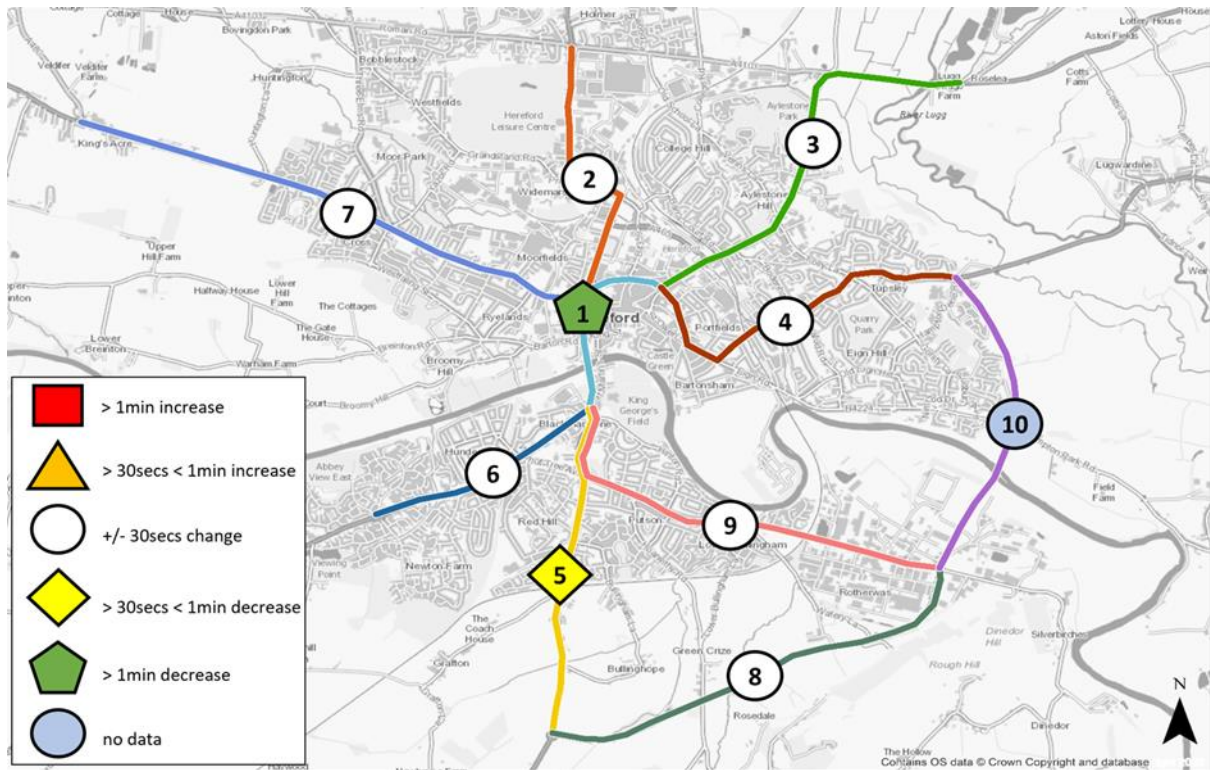
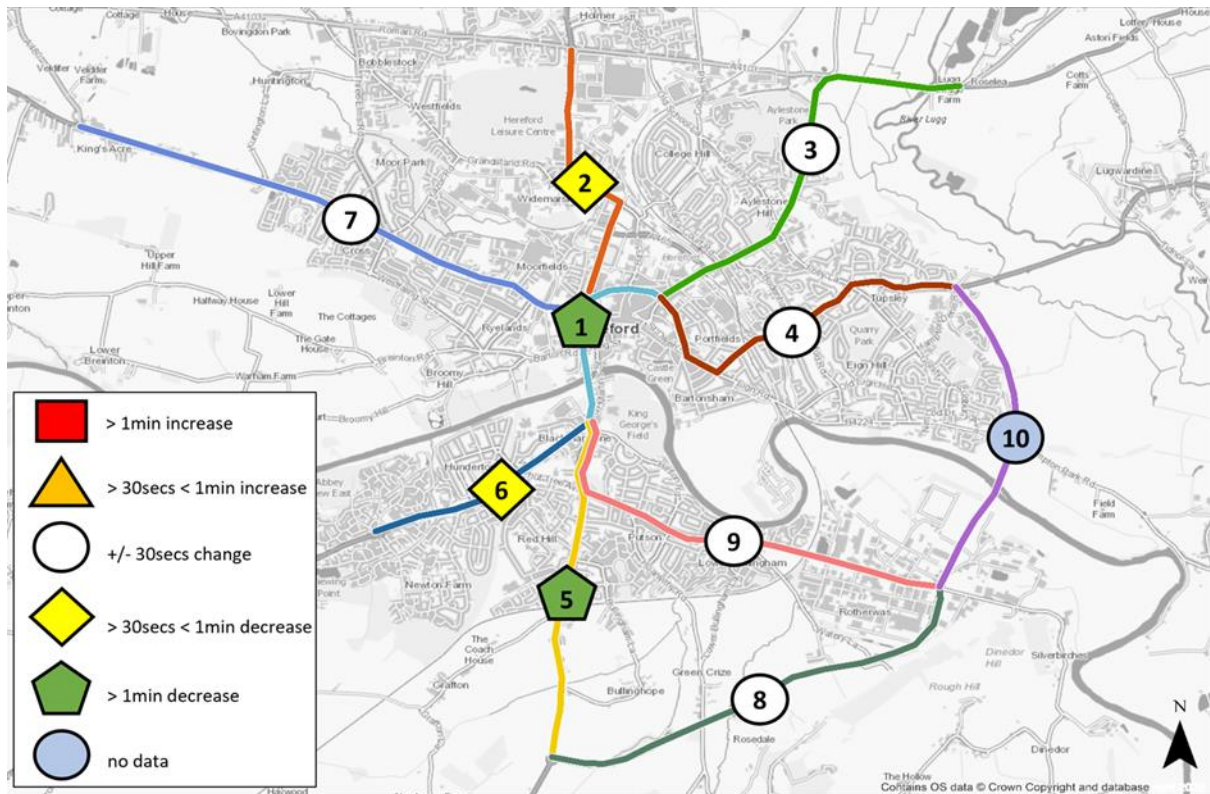


Figure 2 - Journey time changes - HWB vs Do Nothing (AM Peak)



Journey time changes along the longer routes which make-up the network as a result of the schemes in the AM peak are shown below.

Route 11 – Routes 5 + 1 + 3.

Route 12 – Routes 8 + 10.

Route 13 – Routes 5 + part of 1 + 2.

Route 14 – Routes 7 + part of 1 + 4

Table 2 - Journey time changes: ERiC vs Do Nothing and HWB vs Do Nothing (AM Peak) (Longer Routes)

Ref	Direction	Do Nothing	ERiC	Difference	ERiC Average (Directions Combined) (mm:ss)	HWB (SLR+ WB)	Difference	HWB (SLR+WB) Average (Directions Combined) (mm:ss)
11	Northeastbound	21:05	17:57	- 03:09	-02:18	17:16	- 03:49	-02:29
11	Southwestbound	17:45	16:19	- 01:27	-02:18	16:37	- 01:09	-02:29
12	Northbound	n/a	05:50	n/a	n/a	n/a	n/a	n/a
12	Southbound	n/a	05:38	n/a	n/a	n/a	n/a	n/a
13	Northbound	17:01	14:03	- 02:57	-01:51	12:36	- 04:25	-03:08
13	Southbound	13:30	12:46	- 00:44	-01:51	11:41	- 01:50	-03:08
14	Eastbound	18:35	17:20	- 01:14	-01:07	16:54	- 01:40	-01:04
14	Westbound	17:30	16:30	- 01:00	-01:07	17:02	- 00:28	-01:04

Journey time change maps are shown overleaf.

Figure 3 - Journey time changes - ERiC vs Do Nothing (AM Peak)

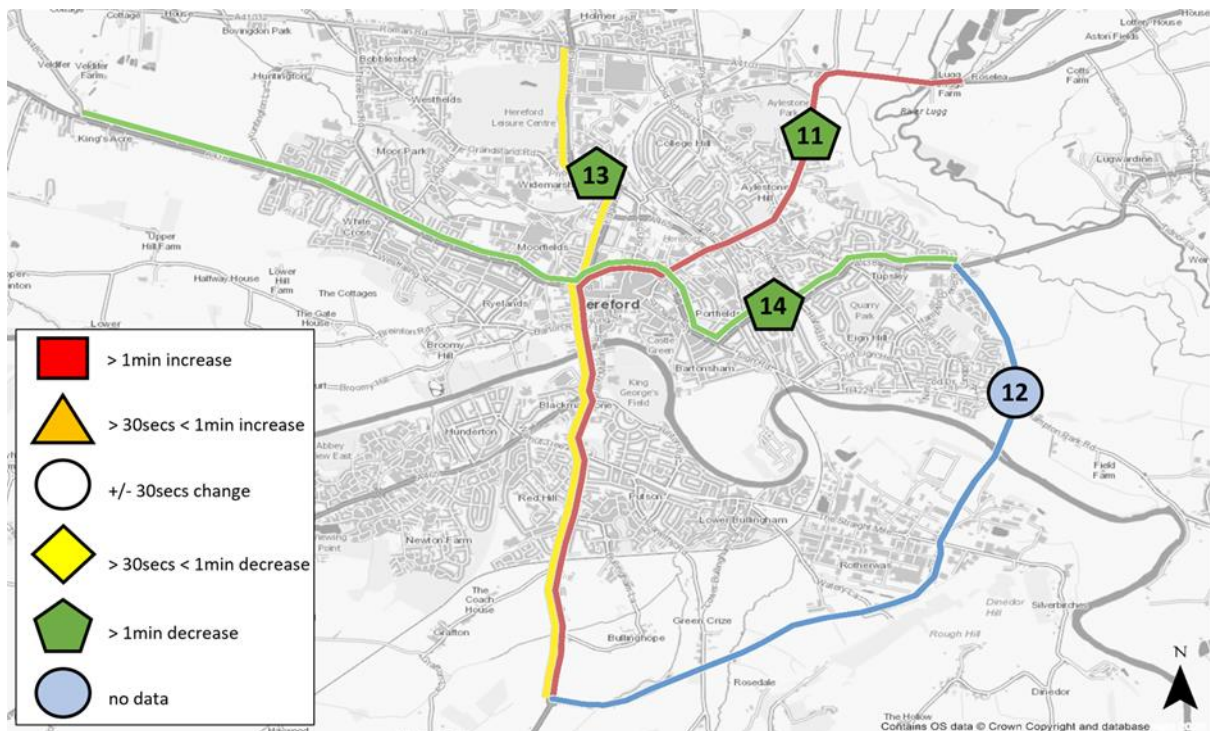
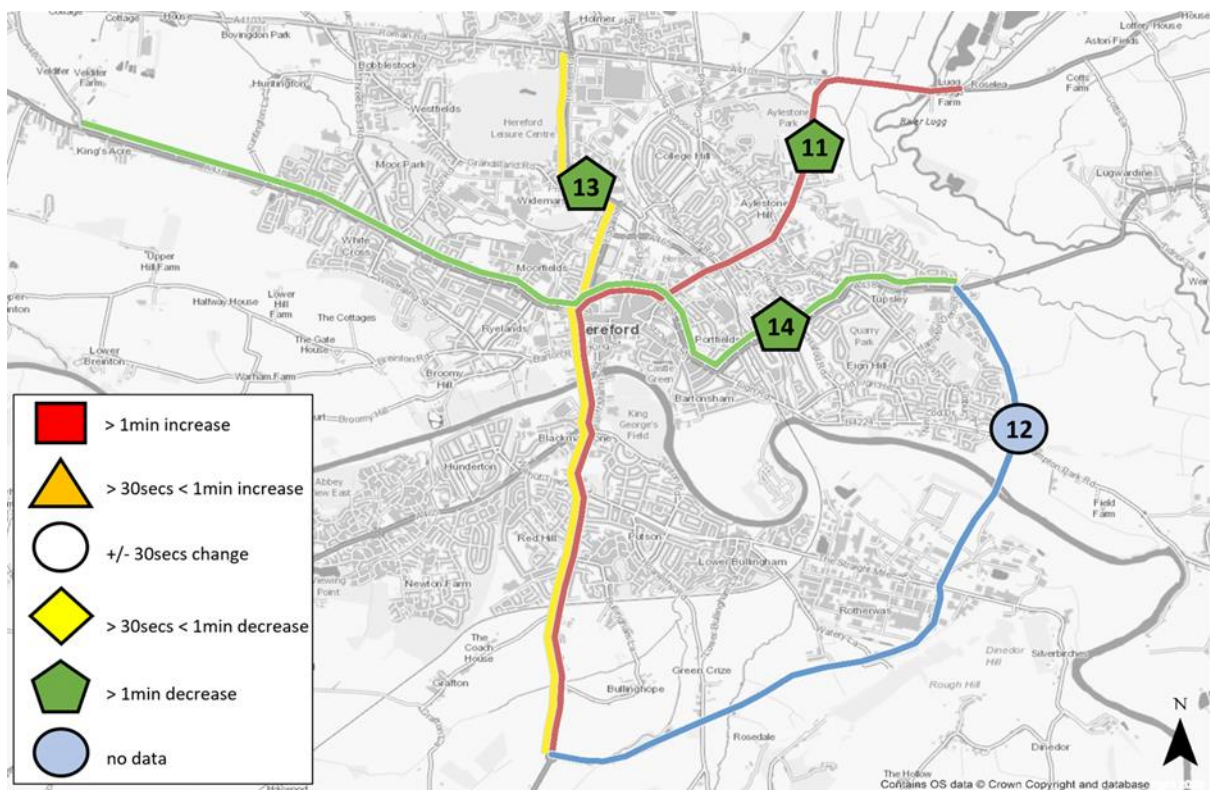


Figure 4 - Journey time changes - HWB vs Do Nothing (AM Peak)



Journey time changes associated with the schemes in the PM Peak are set out in **Table 3** and displayed in map format in **Figure 5** and **Figure 6**. These are based on changes to journey times along the shorter routes along the network.

Table 3 - Journey time changes: ERiC vs Do Nothing and HWB vs Do Nothing (PM Peak) (Shorter Routes)

Ref	Direction	Do Nothing	ERiC	Difference	ERiC Average (Directions Combined) (mm:ss)	HWB (SLR+WB)	Difference	HWB (SLR+WB) Average (Directions Combined) (mm:ss)
1	Northbound	06:45	05:32	- 01:13	-00:48	05:24	- 01:21	-00:56
	Southbound	04:28	04:06	- 00:22	-00:48	03:57	- 00:31	-00:56
2	Inbound	05:02	04:50	- 00:12	-00:22	04:22	- 00:40	-01:04
	Outbound	06:11	05:40	- 00:31	-00:22	04:45	- 01:27	-01:04
3	Inbound	06:54	06:48	- 00:06	-00:09	06:48	- 00:06	-00:08
	Outbound	07:00	06:48	- 00:12	-00:09	06:50	- 00:10	-00:08
4	Inbound	06:45	06:27	- 00:18	-00:12	06:40	- 00:05	-00:03
	Outbound	06:10	06:04	- 00:06	-00:12	06:10	00:00	-00:03
5	Inbound	05:57	05:33	- 00:23	-00:19	05:12	- 00:45	-00:37
	Outbound	05:16	05:02	- 00:14	-00:19	04:48	- 00:28	-00:37
6	Inbound	04:22	04:08	- 00:14	-00:11	03:49	- 00:33	-00:37
	Outbound	04:39	04:32	- 00:07	-00:11	03:59	- 00:40	-00:37
7	Inbound	06:47	06:55	00:08	-00:04	06:49	00:02	-00:17
	Outbound	07:25	07:08	- 00:16	-00:04	06:49	- 00:35	-00:17
8	Eastbound	02:36	02:45	00:09	00:11	02:41	00:04	00:11
	Westbound	02:42	02:54	00:12	00:11	03:00	00:18	00:11
9	Eastbound	06:11	06:13	00:02	-00:50	05:57	- 00:14	-00:21
	Westbound	06:07	06:04	- 00:03	-00:50	05:39	- 00:28	-00:21
10	Northbound	n/a	02:52	n/a	n/a	n/a	n/a	n/a
	Southbound	n/a	02:57	n/a	n/a	n/a	n/a	n/a

Journey time change maps are shown overleaf.

Figure 5 - Journey time changes - ERiC vs Do Nothing (PM Peak)

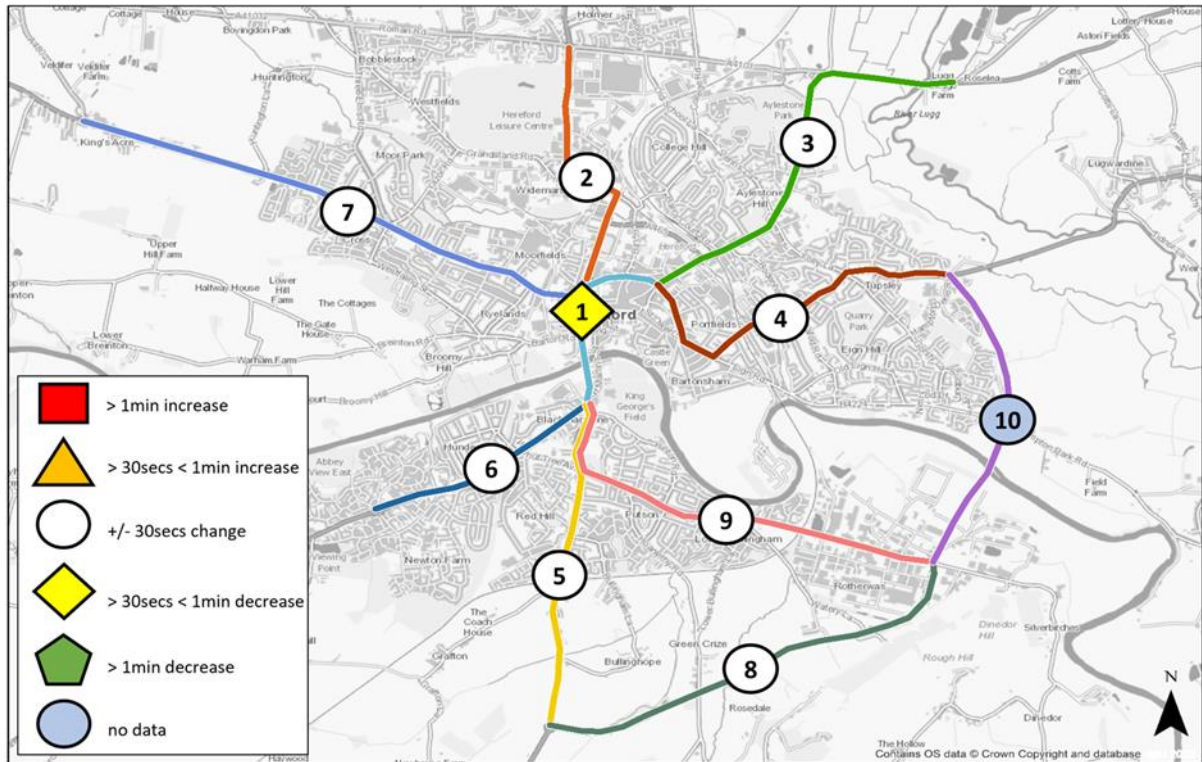
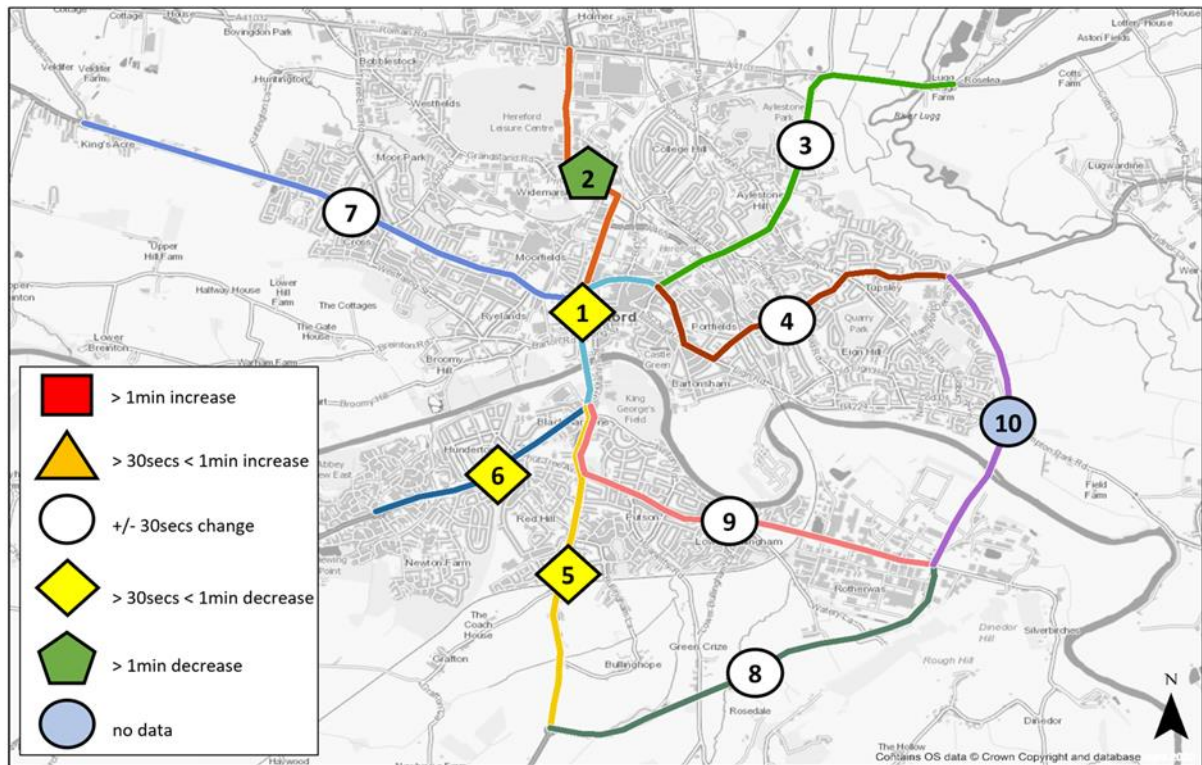


Figure 6 - Journey time changes - HWB vs Do Nothing (PM Peak)



Journey time changes along the longer routes which make-up the network as a result of the schemes in the PM peak are shown below.

Table 4 - Journey time changes: ERiC vs Do Nothing and HWB vs Do Nothing (PM Peak) (Longer Routes)

Ref	Direction	Do Nothing	ERiC	Difference	ERiC Average (Directions Combined) (mm:ss)	HWB (SLR+ WB)	Difference	HWB (SLR+WB) Average (Directions Combined) (mm:ss)
11	Northeastbound	18:52	17:09	- 01:43	-01:19	16:46	- 02:05	-01:35
11	Southwestbound	16:29	15:35	- 00:54	-01:19	15:25	- 01:04	-01:35
12	Northbound	n/a	05:37	n/a	n/a	n/a	n/a	n/a
12	Southbound	n/a	05:51	n/a	n/a	n/a	n/a	n/a
13	Northbound	15:17	13:38	- 01:39	-01:09	12:13	- 03:04	-02:19
13	Southbound	12:38	11:59	- 00:39	-01:09	11:04	- 01:34	-02:19
14	Eastbound	17:32	16:34	- 00:58	-00:51	16:32	- 01:00	-00:53
14	Westbound	17:00	16:17	- 00:44	-00:51	16:14	- 00:46	-00:53

Journey time change maps are shown overleaf.

Figure 7 - Journey time changes - ERiC vs Do Nothing (PM Peak)

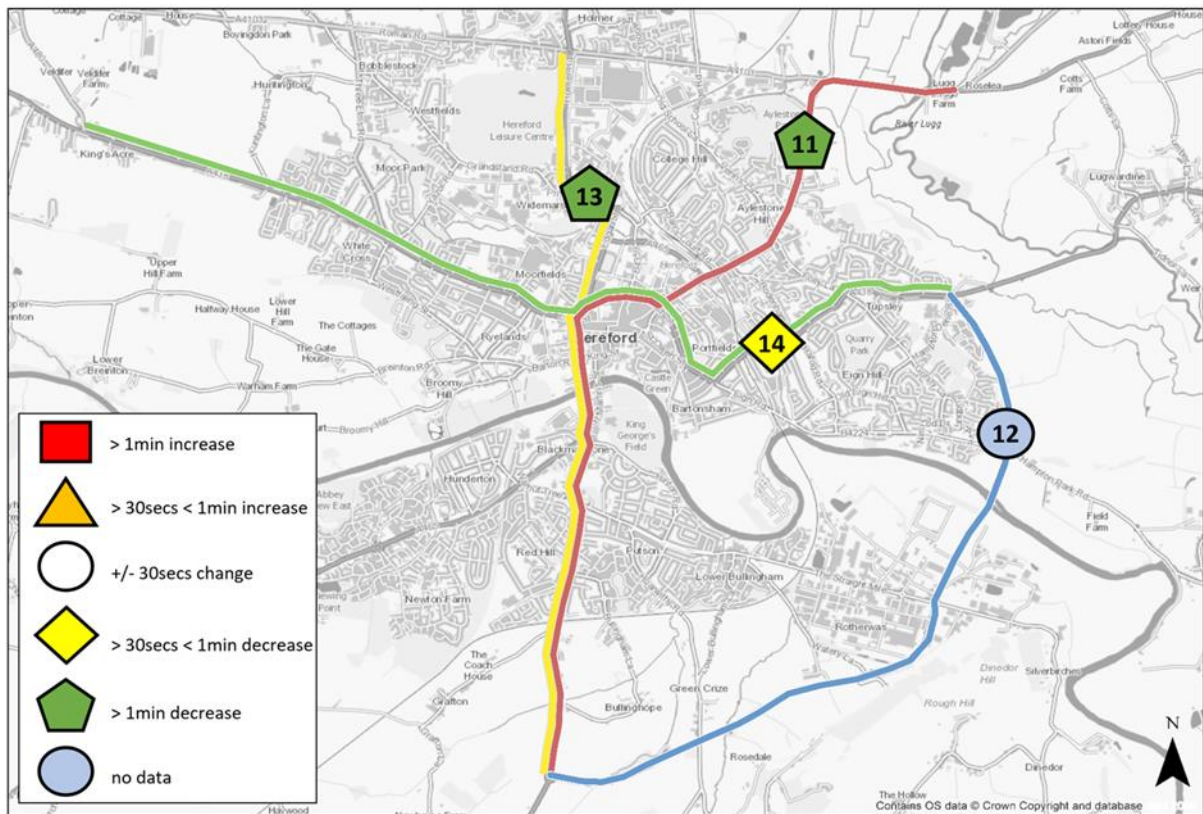


Figure 8 - Journey time changes - HWB vs Do Nothing (PM Peak)

