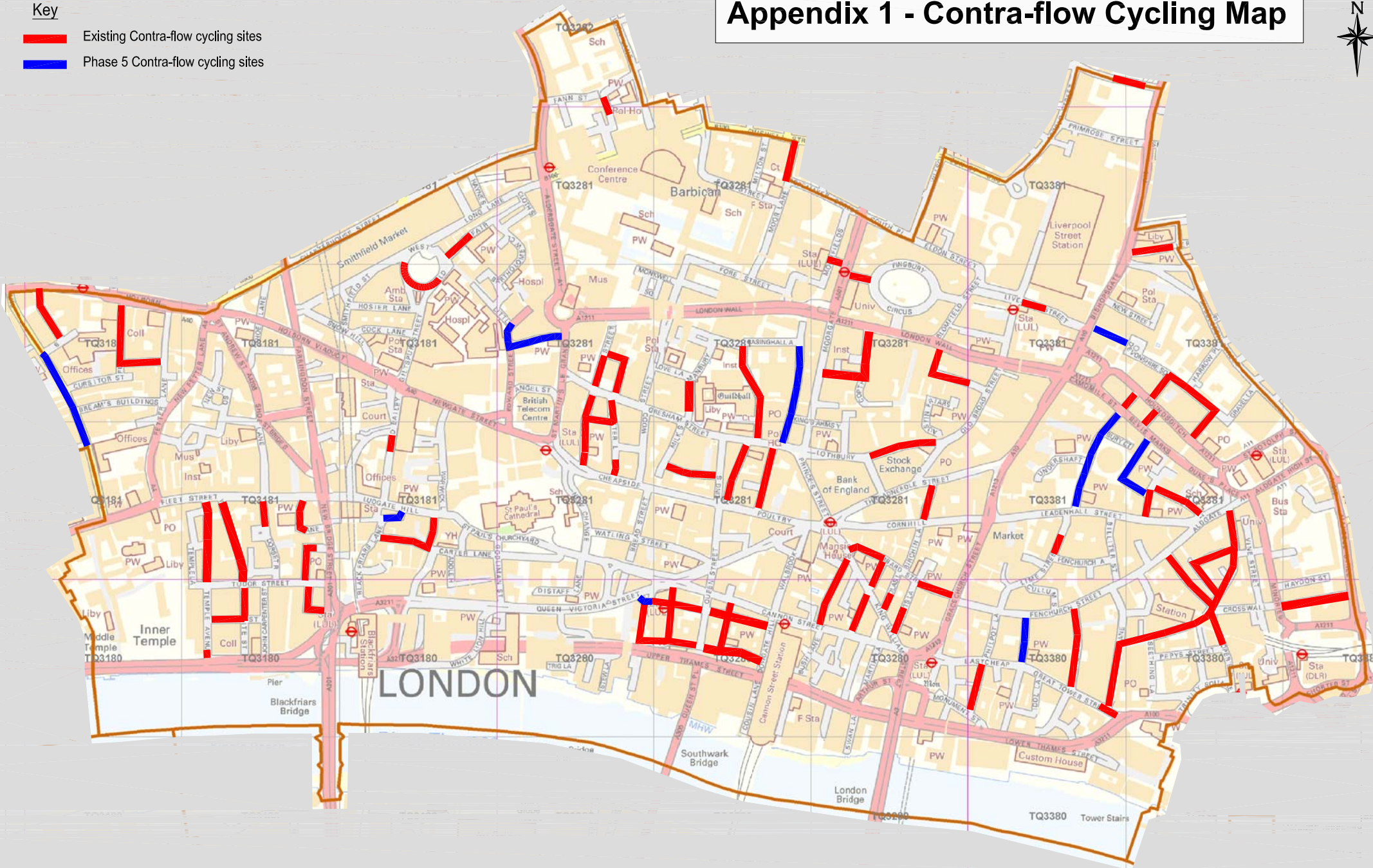


Appendix 1 - Contra-flow Cycling Map



Key

-  Existing Contra-flow cycling sites
-  Phase 5 Contra-flow cycling sites



Appendix 2

Cycle Contra-flow Streets - Traffic Data and Collision Statistics

Street	Facility	Operation Period Yrs	Pre-Introduction Average Annual Collisions (3yrs)	Post-Introduction Average Annual Collisions (3yrs**)	Contra-flow Contributory Factor	Motorised Vehicle Flow	Daily Bicycle Flow Pre-Contra-flow	85% ile Vehicle speed mph
Abchurch Lane (lower)	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	21	12.3
Abchurch Lane (upper)	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	21	12.3
Aldermanbury	Contra-flow Advisory Cycle Lane	0.83	0.00	0.00	-	Low / Med	222	19.8
Artillery Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	27	25.2
Basinghall Street	Contra-flow No Lane	1.33	0.00	0.00	-	Low	193	22.6
Botolph Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	37	13.0
Bourverie Street	Contra-flow Advisory Cycle Lane	0.83	0.00	0.00	-	Low / Med	140	19.9
Bride Lane	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	27	15.4
Carey Lane	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	24	-
Carlisle Avenue	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	6	15.3
Carter Lane	Contra-flow No Lane	2.42	0.00	0.00	-	-	-	-
Clements Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	56	11.7
Cloak Lane	Contra-flow No Lane	0.83	0.00	0.00	-	Very Low	16	12.15
Cloth Fair**	Contra-flow No Lane	4.50	0.33	0.00	-	Very Low	-	15.0
College Hill (lower)	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	8	10.75
College Hill (upper)	Contra-flow No Lane	1.33	0.00	0.00	-	Low	32	9.8
College Street	Contra-flow No Lane	0.83	0.00	0.00	-	Very Low	26	11.1
Coopers Row	Contra-flow Advisory Cycle Lane	0.25	0.00	0.00	-	Low / Med	143	10.4
Copthall Avenue	Contra-flow Advisory Cycle Lane	0.83	0.00	0.00	-	Low / Med	281	18.4
Creechurch Lane**	Contra-flow No Lane	4.50	0.00	0.00	-	Low	-	14.6
Creed Lane	Contra-flow No Lane	2.42	0.00	0.00	-	Very Low	-	15.9
Crutched Friars (lower)**	Contra-flow No Lane	4.50	0.33	0.33	Yes	-	-	-
Crutched Friars (upper)	Contra-flow Advisory Cycle Lane	0.25	0.00	0.00	-	Medium	179	11.45
Cutler Street (east-west)	Contra-flow No Lane	2.42	0.00	0.00	-	Low / Med	-	16.3
Cutler Street (north-south)	Contra-flow Advisory Cycle Lane	0.33	0.00	0.00	-	Low / Med	196	14.1
Finch Lane	Contra-flow No Lane	2.33	0.00	0.00	-	Very Low	17	13.5
Finsbury Circus**	Contra-flow No Lane	4.50	0.33	0.00	-	Low	-	17.2
Foster Lane	Contra-flow No Lane	1.33	0.00	0.00	-	Low	81	19.3
Furnival Street	Contra-flow No Lane	2.42	0.00	0.00	-	Very Low	-	18.8
Garlick Hill	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	17	11.3
Goring Street	Contra-flow No Lane	0.33	0.33	0.00	-	Low	61	11.7
Great St Thomas Apostle	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	121	15.1
Great Swan Alley	Contra-flow Advisory Cycle Lane	0.83	0.33	0.00	-	Low / Med	262	19.0
Great Trinity Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	-	-
Great Winchester Street	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	24	-
Gutter Lane (Lower)	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	37	-
Gutter Lane (upper)	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	13	15.8
Hart Street**	Contra-flow No Lane	4.50	0.00	0.00	-	-	-	-
Ironmonger Lane	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	123	12.8
Jewry Street (upper)**	Contra-flow Mandatory Cycle Lane	14.25	0.00	0.33	No	Medium	179	11.45
Jewry Street (lower)	Contra-flow No Lane	0.25	0.00	0.00	-	Medium	179	11.45
Kingscote Street	Contra-flow No Lane	2.42	0.00	0.00	-	Very Low	-	15.7
Lime Street	Contra-flow No Lane	6.00	0.00	0.00	-	-	-	-
Little Trinity Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	-	-
Liverpool Street**	Contra-flow No Lane	7.92	0.00	0.00	-	-	-	-
Lloyds Avenue	Contra-flow Advisory Cycle Lane	3.83	0.00	0.00	-	-	-	-
Lombard Street (east)**	Contra-flow Mandatory Cycle Lane	9.92	0.00	0.00	-	-	-	-
Lombard Street (west)**	Contra-flow Advisory Cycle Lane	6.00	0.33	0.00	-	-	-	-
Mark Lane**	Contra-flow No Lane	4.50	0.00	0.00	-	-	-	-
Mincing Lane	Contra-flow Advisory Cycle Lane	0.33	0.00	0.00	-	Low	136	18.7
Mitre Street	Contra-flow No Lane	0.25	0.00	0.00	-	Very Low	85	14.6
Moor Lane	Contra-flow Advisory Cycle Lane	1.33	0.00	0.00	-	Low	310	16.9
Moor Place**	Contra-flow No Lane	4.50	0.00	0.00	-	Low	-	10.5
Nicholas Lane	Contra-flow No Lane	1.33	0.00	0.00	-	Very Low	55	10.75
Noble Street	Contra-flow No Lane	1.33	0.00	0.00	-	Low / Med	250	10.05
Northumberland Alley	Contra-flow No Lane	0.25	0.00	0.00	-	Very Low	6	15.3
Oat Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Low	-	-
Old Bailey**	Contra-flow Mandatory Cycle Lane	8.25	0.33	0.00	-	-	-	-
Old Jewry (north)	Contra-flow No Lane	1.33	0.00	0.00	-	Low	-	19.2
Old Jewry (south)	Contra-flow Advisory Cycle Lane	1.33	0.00	0.00	-	Low	-	19.2
Portoken Street	Contra-flow Advisory Cycle Lane	0.83	0.00	0.00	-	Low / Med	147	15.05
Russia Row	Contra-flow No Lane	2.42	0.00	0.00	-	Low	-	16.6
Salisbury Court**	Contra-flow Advisory Cycle Lane	4.50	0.00	0.00	-	Low / Med	-	19
Skinnners Lane	Contra-flow No Lane	0.33	0.00	0.00	-	-	-	-
Southampton Buildings	Contra-flow No Lane	0.25	0.00	0.00	-	Low	127	13.3
St Mary Axe	Contra-flow No Lane	1.33	0.00	0.00	-	Low	20	11.2
St Swithin's Lane	Contra-flow No Lane	1.75	0.00	0.00	-	-	-	-
Staining Lane	Contra-flow No Lane	0.33	0.00	0.00	-	Low	-	-
Stonecutter Lane	Contra-flow No Lane	1.33	0.00	0.00	-	-	-	-
Temple Avenue**	Contra-flow Mandatory Cycle Lane	10.50	0.00	0.00	-	-	-	-
Throgmorton Street	Contra-flow No Lane	0.33	0.00	0.00	-	-	-	-
Trump Street	Contra-flow No Lane	2.42	0.00	0.00	-	Low	-	16.6
Viscount Street	Contra-flow No Lane	0.33	0.00	0.00	-	Very Low	44	10.9
Watergate	Contra-flow No Lane	2.42	0.00	0.00	-	Very Low	-	15.7
West Smithfield	Contra-flow No Lane	4.50	0.33	0.00	-	Low	-	15.0
Whitefriars Street	Contra-flow Advisory Cycle Lane	0.83	0.00	0.00	-	Medium	142	16.45
Worship Street**	Contra-flow Advisory Cycle Lane	14.17	0.00	0.00	-	-	-	-

** Average Annual Collision rate over latest 3 years if data available

Appendix 3 – Two-way Cycling Monitoring Survey

Monitoring Survey Information






- Eight contra-flow cycling sites were surveyed
 - Bouverie Street
 - Carter Lane
 - Cloth Fair
 - Copthall Avenue
 - Ironmonger Lane
 - Lombard Street
 - Moor Lane
 - Whitefriars Street
- Monitoring survey was undertaken between Tuesday 4th and Thursday 6th February 2014 over three days;
- The survey period was between 7am and 7pm;
- All vehicle flow movements were recorded;
- The survey commented on each contra-flow cyclist progression along the street;
- In total 3,457 contra-flow cyclists were recorded and the contra-flow cyclists make-up 38% of all cyclists surveyed during three days;

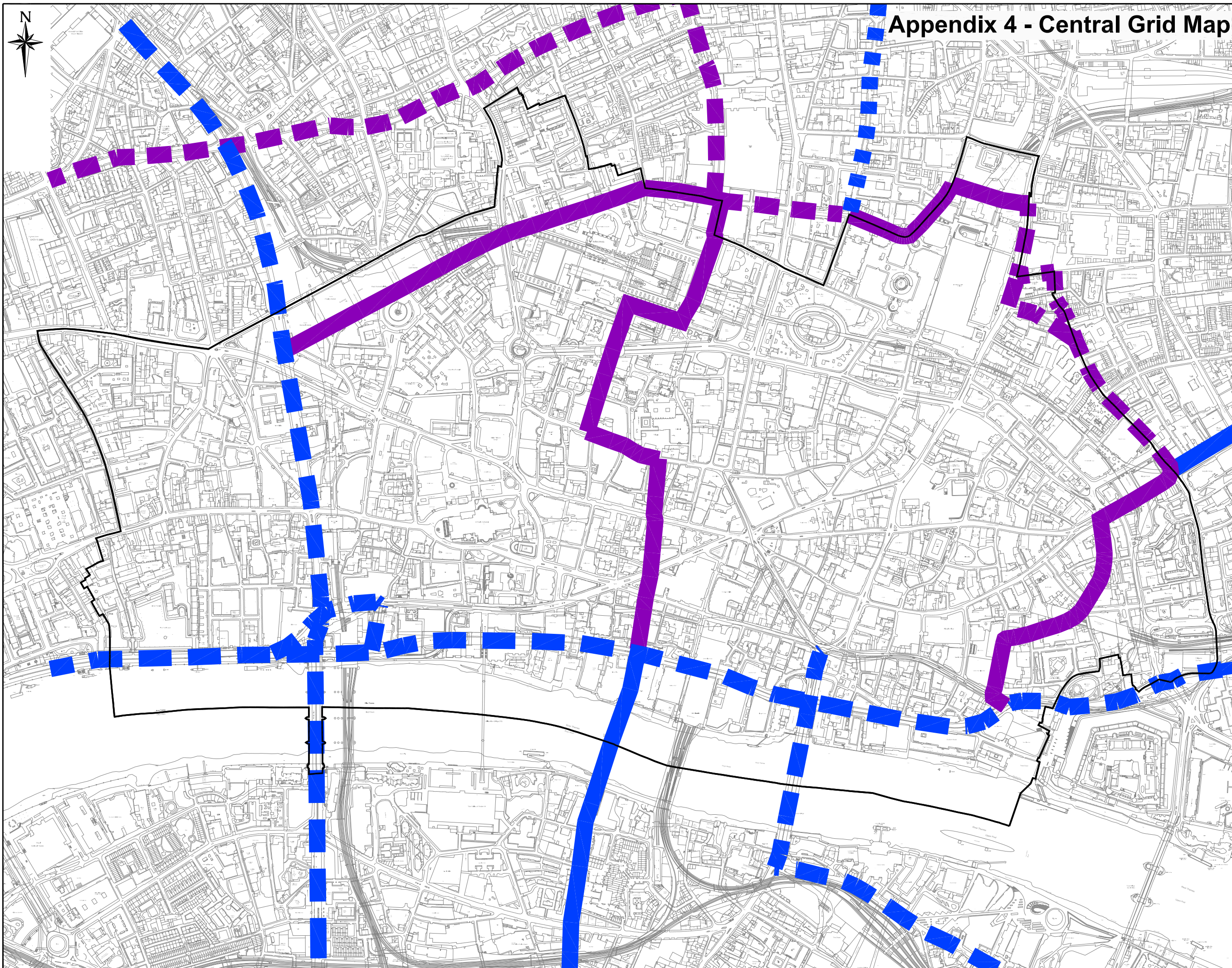
Appendix 3 – Two-way Cycling Monitoring Survey - Overview

Street Name	Site Features	Data (Daily Average 7am-7pm)	Observation Summary
Bouverie Street	Moderate vehicular flow Narrow carriageway section Low pedestrian activity	All Cyclists = 228 Contra-flow cyclists = 97 Ratio = 0.42	Contra-flow cyclists and opposing vehicles considerably give-way at narrow sections or when passing stationary vehicles. No issues observed
Carter Lane	Closed to motorised vehicles Raised carriageway High pedestrian activity Frontage activity	All Cyclists = 94 Contra-flow cyclists = 34 Ratio = 0.36	Cyclists slow their speed showing awareness of the pedestrian activity and non-segregation of space. No issues observed
Cloth Fair	Low vehicular flow Narrow carriageway Low pedestrian activity	All Cyclists = 128 Contra-flow cyclists = 46 Ratio = 0.36	All street users understand the contra-flow operation and no conflicts observed.
Copthall Avenue	Moderate vehicular flow Advisory contra-flow cycle lane Moderate pedestrian activity High loading activity	All Cyclists = 257 Contra-flow cyclists = 81 Ratio = 0.32	Contra-flow cyclists' give-priority to opposing vehicles when passing stationary vehicles loading. No issues observed.
Ironmonger Lane	Low vehicular flow Narrow carriageway High pedestrian activity	All Cyclists = 166 Contra-flow cyclists = 66 Ratio = 0.39	Cyclist safely utilise the footway to pass stationary vehicles and immediately after passing, manoeuvre back onto the carriageway. No issues observed
Lombard Street	Moderate vehicular flow Advisory contra-flow cycle lane Very high pedestrian flows High loading activity	All Cyclists = 498 Contra-flow cyclists = 231 Ratio = 0.46	Contra-flow cyclists and opposing vehicles considerably give-way when passing stationary vehicles. A few conflicts observed with pedestrians step into the path of cyclists without looking. However, these incidences occur on streets that operate two-way for all vehicles.
Moor Lane	Moderate vehicular flow Medium width carriageway Moderate pedestrian activity	All Cyclists = 741 Contra-flow cyclists = 278 Ratio = 0.38	All street users understand the contra-flow operation and no conflicts observed.
Whitefriars Street	Moderate vehicular flow Medium width carriageway Low pedestrian activity High loading activity	All Cyclists = 190 Contra-flow cyclists = 64 Ratio = 0.34	Contra-flow cyclists and opposing vehicles considerably give-way when passing stationary vehicles. No issues observed



Appendix 4 - Central Grid Map

- Key**
-  Existing Cycle Superhighway
 -  Quietway Grid
 -  Planned Cycle Superhighway
 -  Proposed (TfL) Superhighway
 -  Quietway in neighbouring authority



F	08/5/14	Middlesex St Quietway modified	MK	SL	SL
E	12/3/14	Grid routes modified following consultation. London wall corridor removed. Additional quietways added	AC	SL	SL
D	31/7/13	Quietways rationalised and considerations / active investigations identified	AC	SL	SL
C	12/8/13	Quietways rationalised and considerations / active investigations identified	AC	SL	SL
B	22/5/13	LB Islington and Hackney connecting cycle routes added	AC	SL	SL
A	1/5/13	Amendments to quietways, quietway plus and proposed CSH added	AC	SL	SL
Rev	Date	Revision detail	Drawn	Checked	Approved

Project
Cycle Revolution

Drawing title
**Central Grid
Cycle Routes**

Scale	Original dwg-size	Date	CR-04-01 - Revision F
NTS	A3	May 2013	
Drawn	Checked	Approved	
AC		SL	

DEPARTMENT OF THE BUILT ENVIRONMENT
City of London Corporation
PO Box 270
Gullihall
London EC2P 2EJ
020 7332 1710



CITY OF LONDON

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