

# Maylands Growth Corridor Study

Page 170

Progress Meeting 9: 3<sup>rd</sup> August 2016

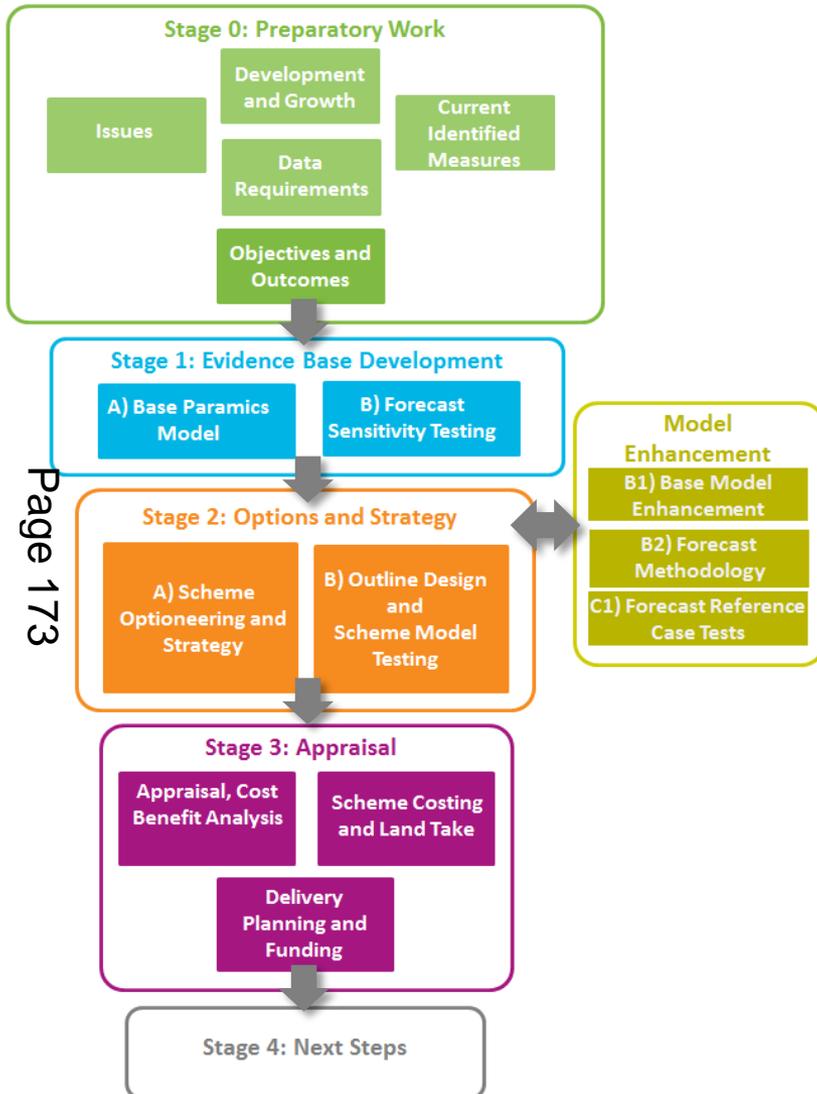
# Agenda

- 1/ Introductions & progress meeting #8 actions
- 2/ Commission Overview – timescales and progress
- 3/ East Hemel Hempstead master planning & model enhancement – update
- 4/ SC1 scheme design progress
- 5/ M1 J9 Relocation 'mini study' progress
- 6/ Next Steps
- 7/ AOB

# 2/ Commission Overview

Page 172

# Commission Overview



April '15-July '15

a) Aug '15 – Nov '15

b) Dec '15 – Jan '16

B1) March-July '16

B2) July-Aug '16

B3) Aug-Sept '16

a) Sept '15-Nov '15

b) Jan '16 - Sept '16

Sept-Oct 2016

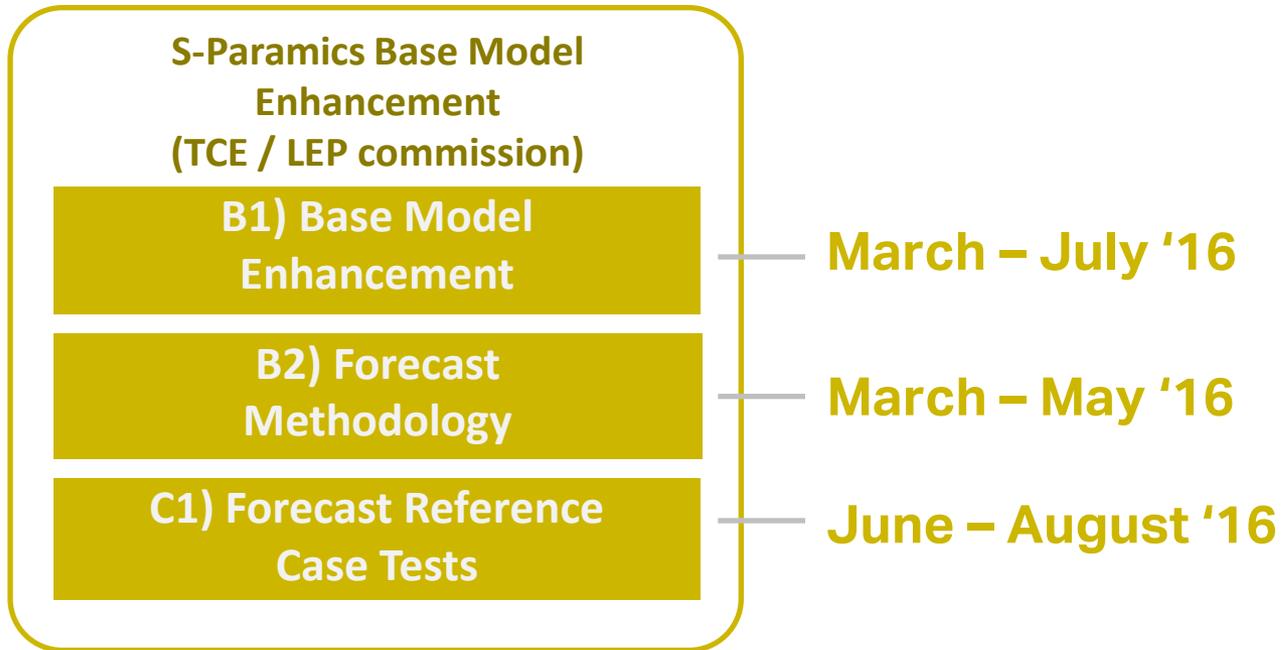
tbc

# **3/ East Hemel masterplanning & model enhancement**

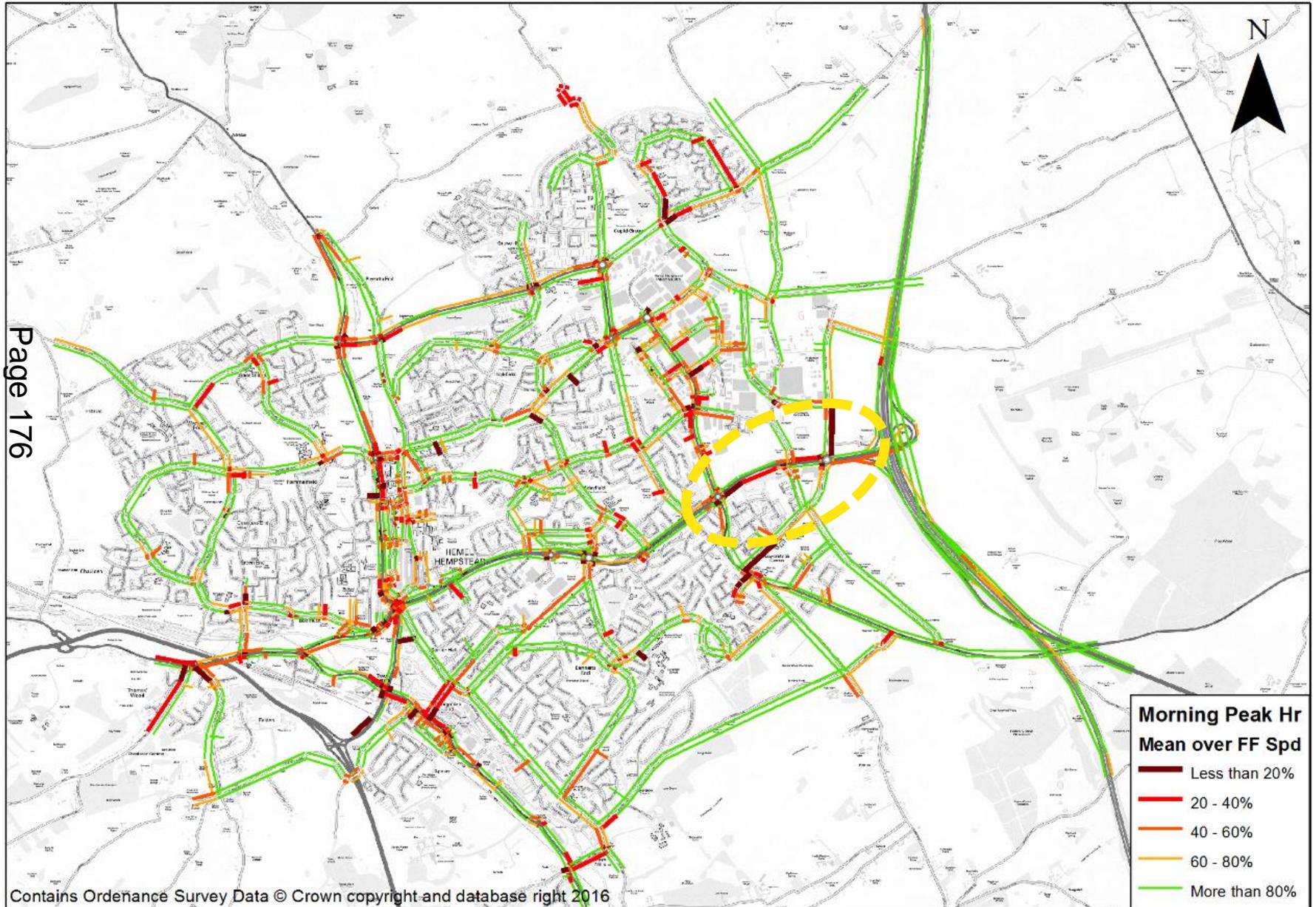
Page 174

# Hemel Hempstead Model Enhancement

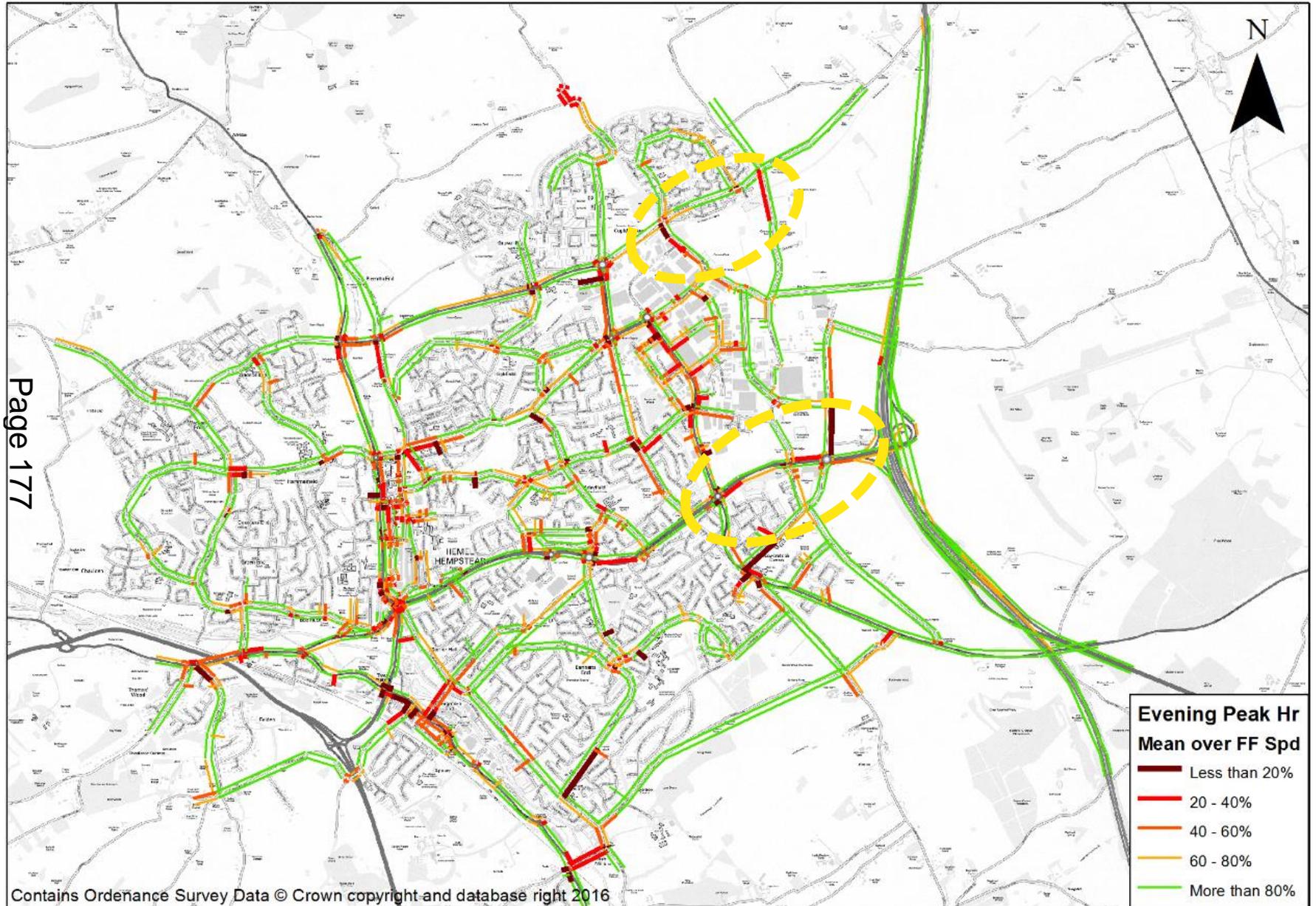
Page 175



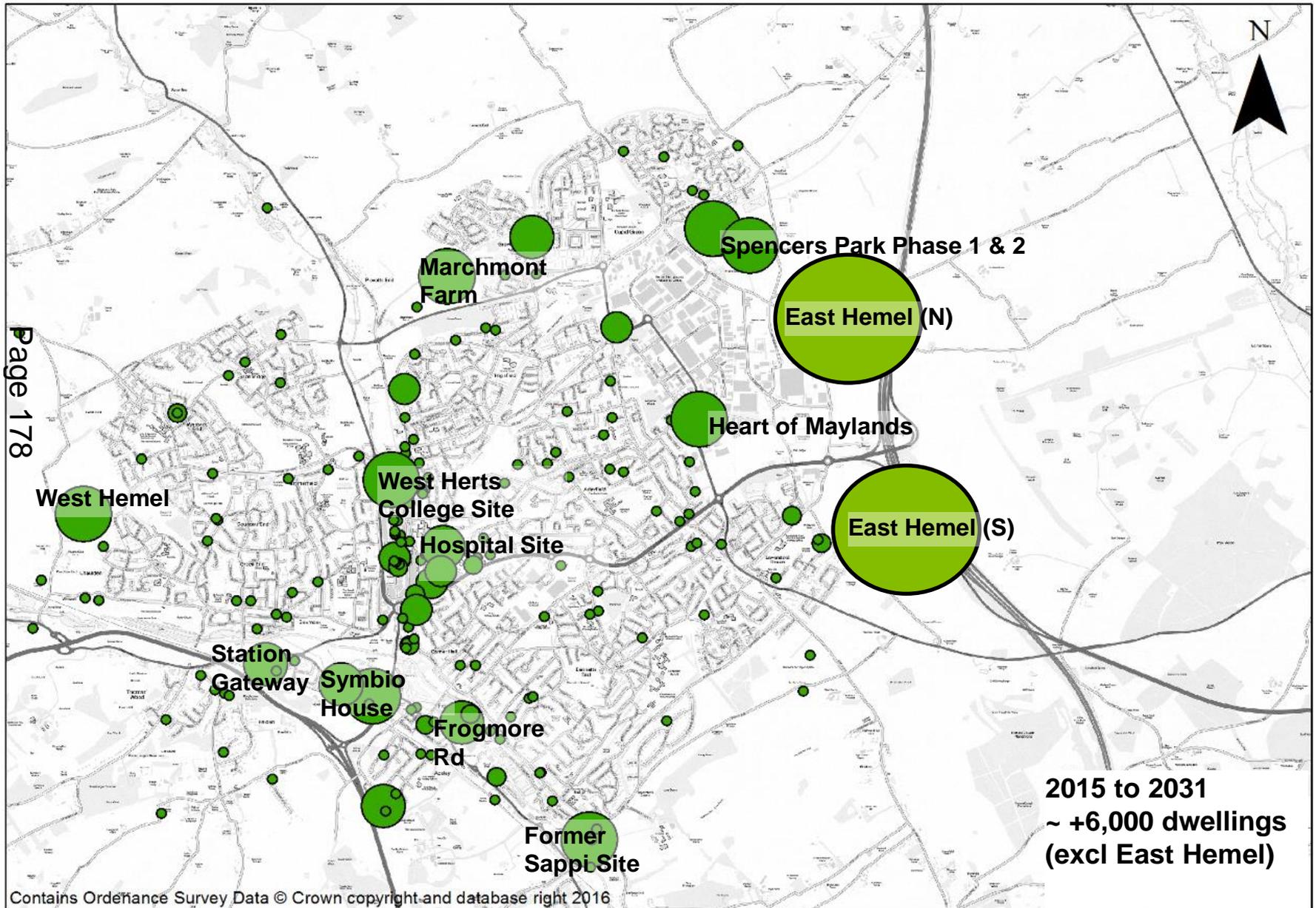
# Hemel Hempstead – Base Year – Morning Peak Hour



# Hemel Hempstead – Base Year – Evening Peak Hour



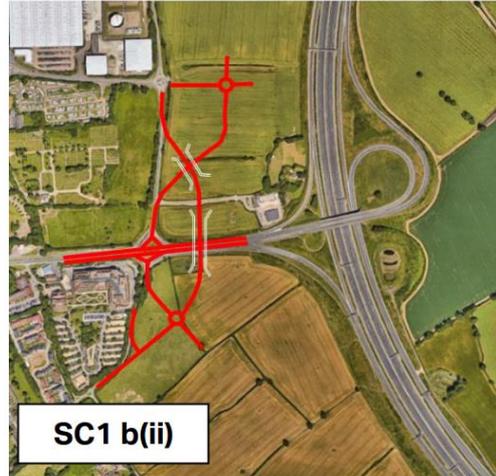
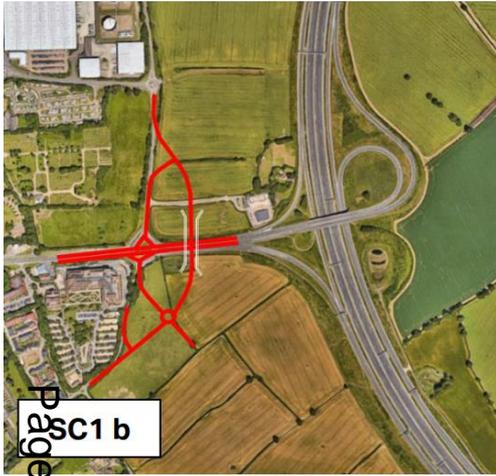
# Hemel Hempstead – Forecast Year developments



# 4/ SC1 scheme design

Page 179

# Scheme Concept 1 – scheme design



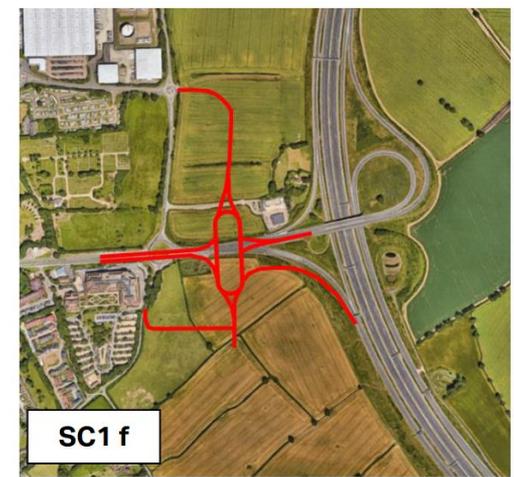
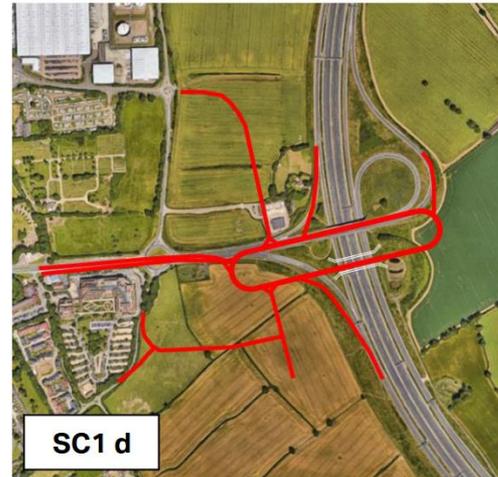
- Four options being designed in greater detail
- Consideration of structural, geotechnical, environmental and highway alignment issues

Page 180

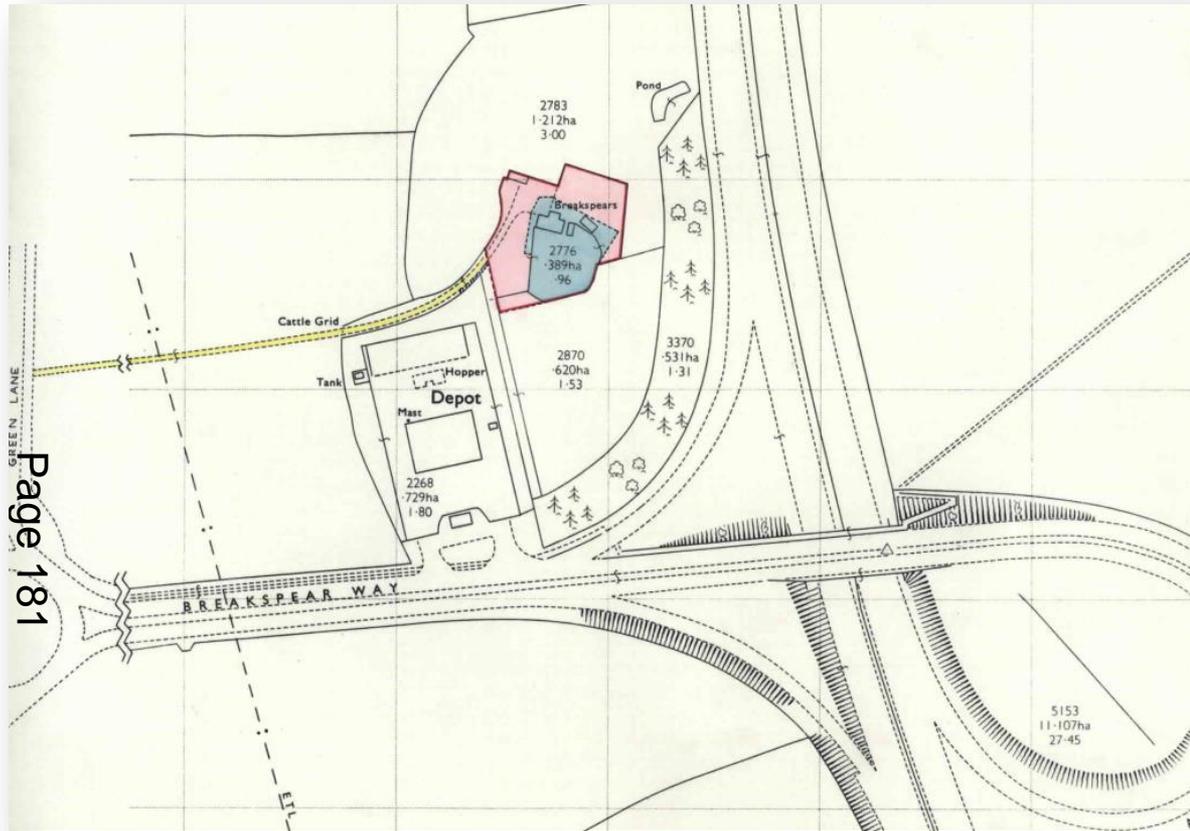
## Grade-separation of A414 Breakspear Way Roundabout

- Completion in early September
- Then one or more options to be assessed in enhanced Paramics model

## Re-configuration of M1 J8



# Listed property and HE depot



- Options D and F may directly affect these properties.
- All options will affect vehicular access to these properties

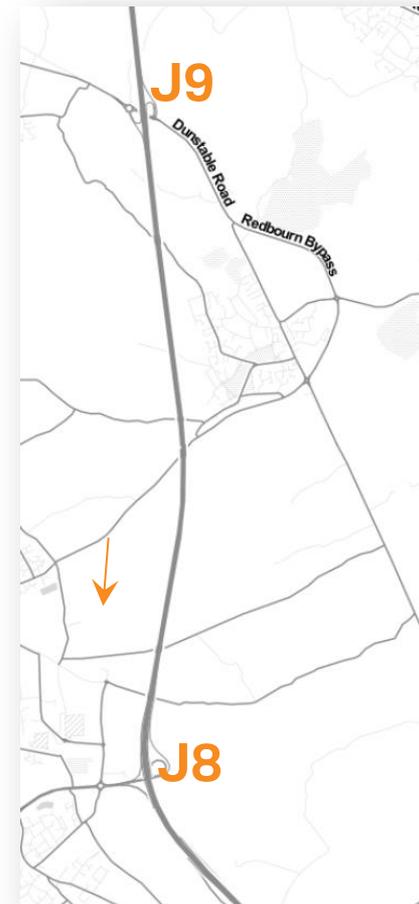
# 5/ M1 Junction 9 re-location 'mini Study'

Page 182

# M1 J9 relocation 'mini study'

The aims of the mini study are to:

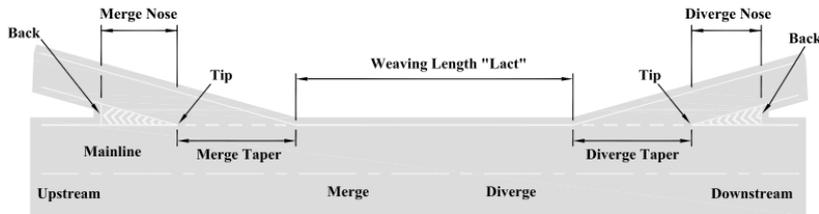
- A theoretical study
- In accordance with the Design Manual for Roads and Bridges, consider in terms of design standards, the **broad feasibility** of re-locating M1 Junction 9 to the B487 south-west of Redbourn / north-east of Hemel Hempstead;
- Consider, broadly, the potential configuration and footprint requirements of a relocated junction;
- Challenge the current proposal for M1 Junction 8 by considering whether a relocated Junction 9 reduces or even eliminates the need for a junction improvement at Junction 8;
- Consider the wider traffic reassignment effects of a relocated junction;
- Guesstimate, broadly, the potential cost range of closing Junction 9 and constructing a new junction;
- Consider, qualitatively, if such a relocated junction could help accommodate traffic associated with additional development above and beyond what has already been allocated by Dacorum Borough Council and St Albans City and District Council, beyond 2031 (i.e. consider if there is any spare capacity at the re-located junction);
- Consider, qualitatively, other potential knock-on implications, including the A5 Watling Street Truck Stop, Nickey Line, existing area wide weight restrictions etc.



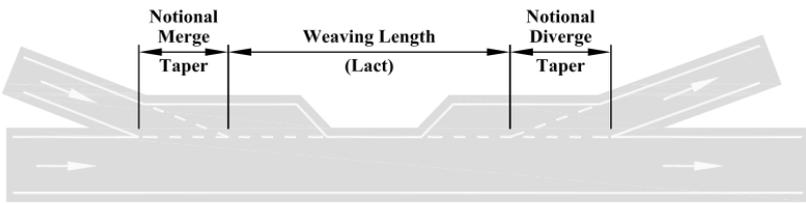
# Spacing requirements between M-way junctions

- DMRB sets out minimum weaving distances between junction merges and diverges on the motorway network, in order maintain safety and efficiency of flow.
- Checks based on detailed M1 layout drawings confirms there is limited space for a full extra junction between J8 and J9. A partial junction or relocation of J9 could however be considered.

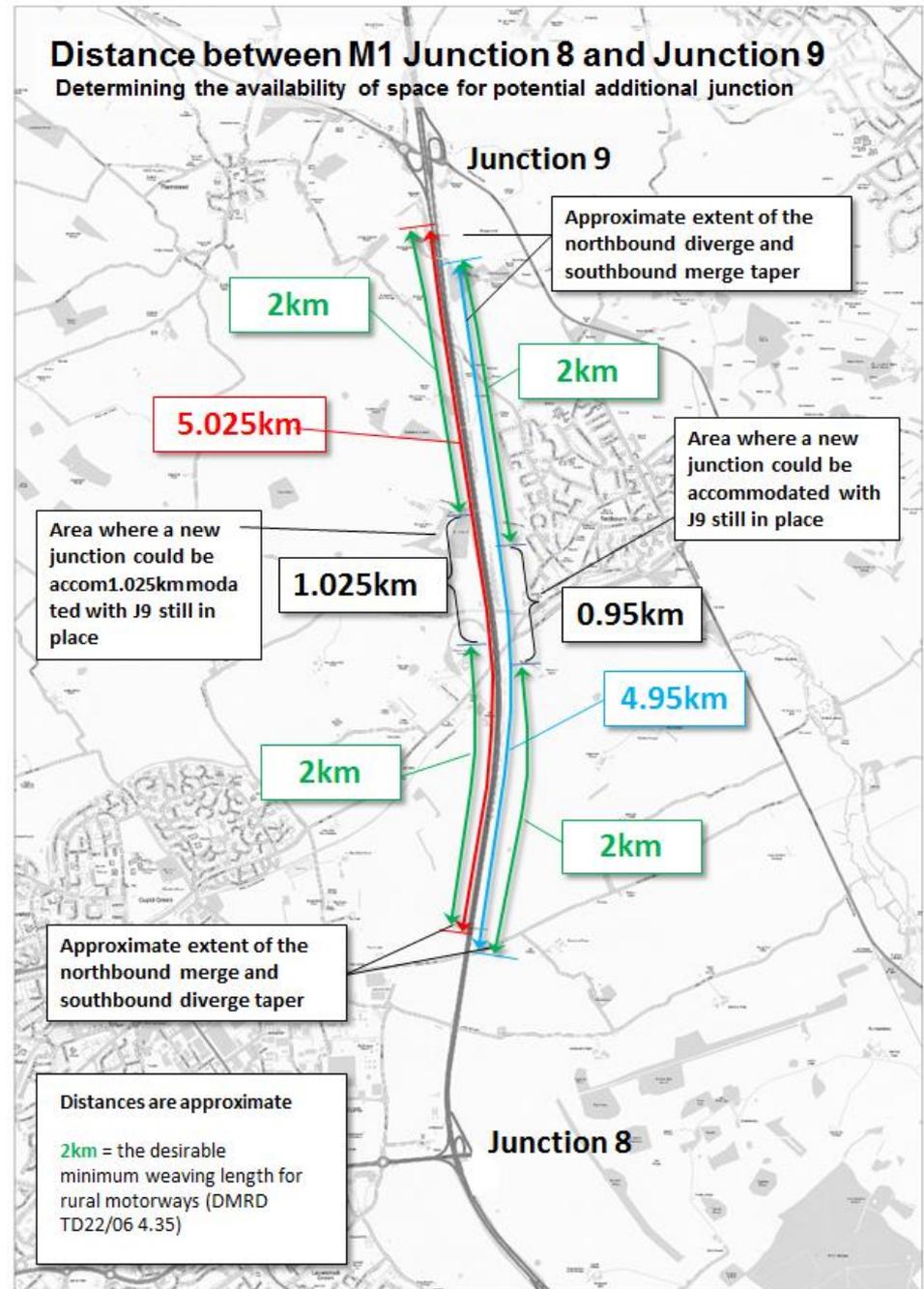
Page 184



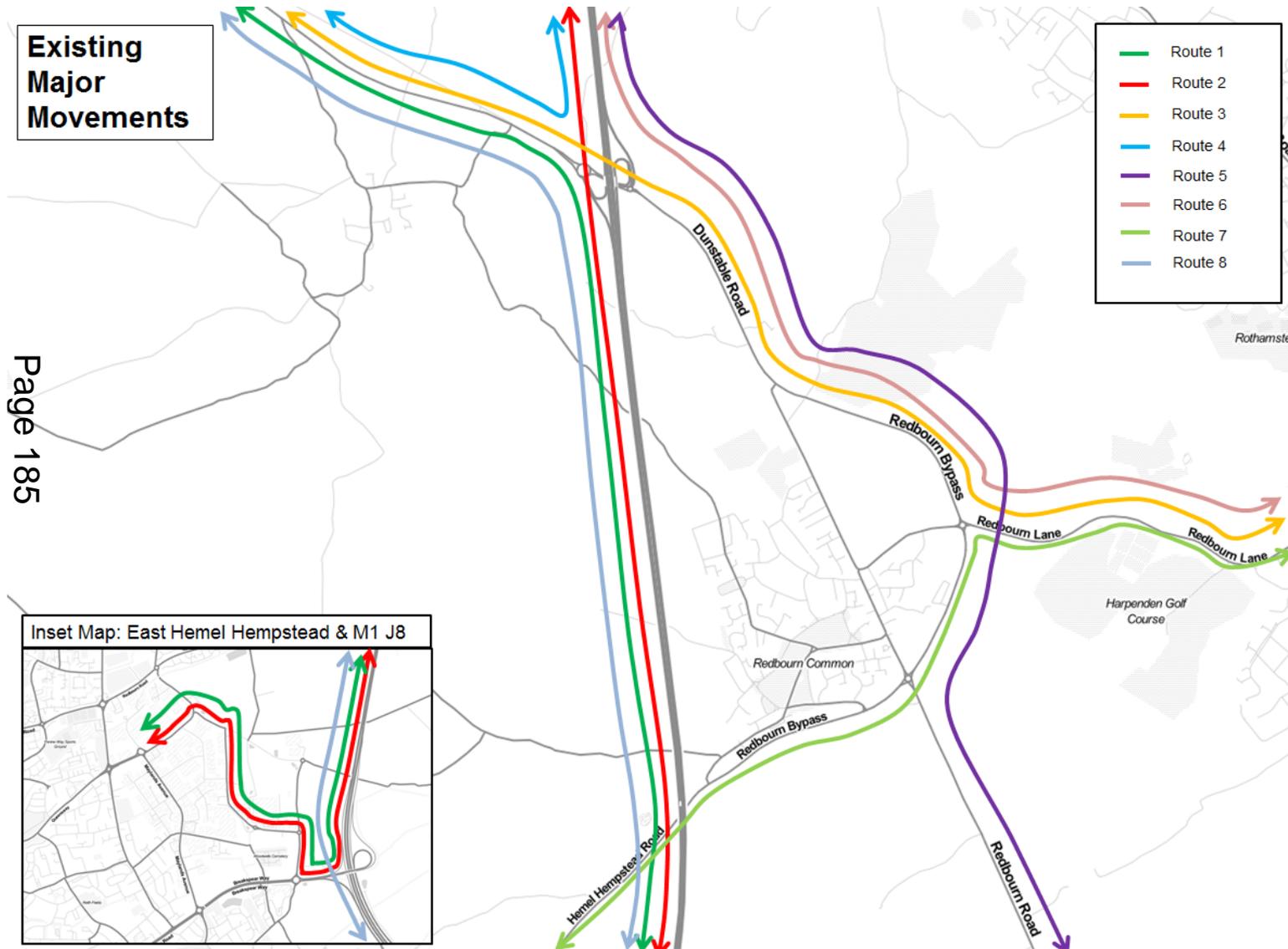
A - Merge, Weaving Length and Diverge



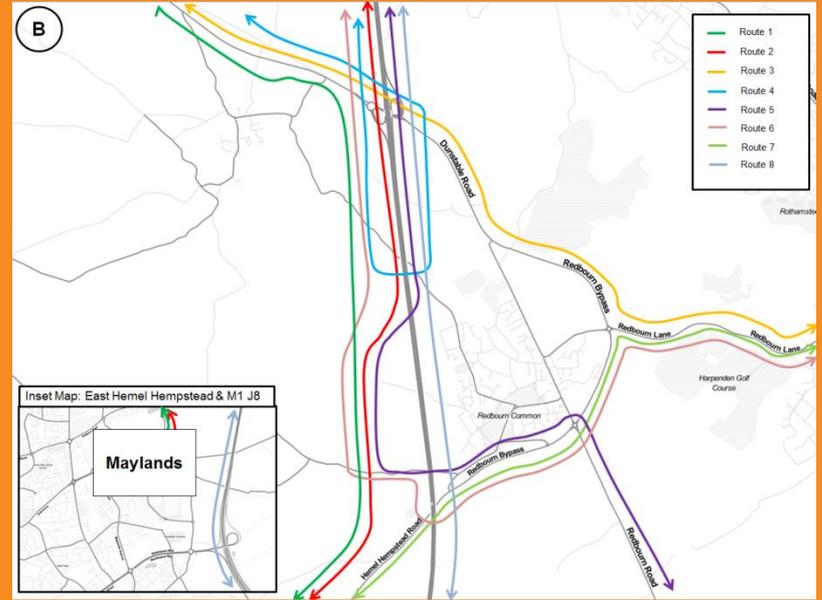
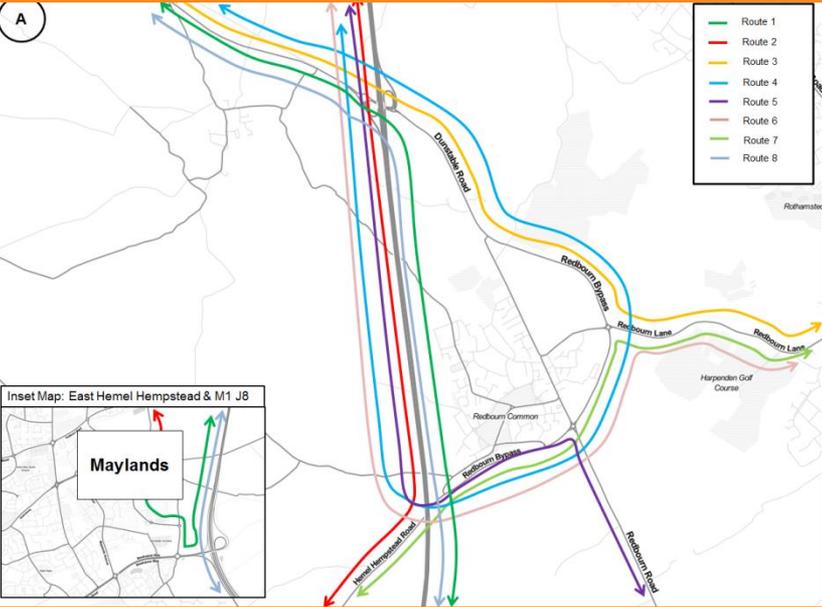
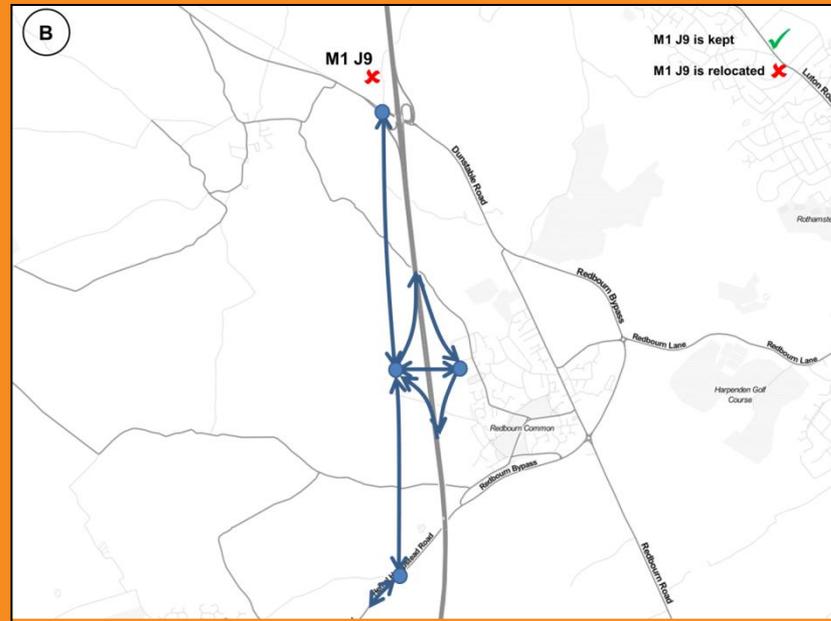
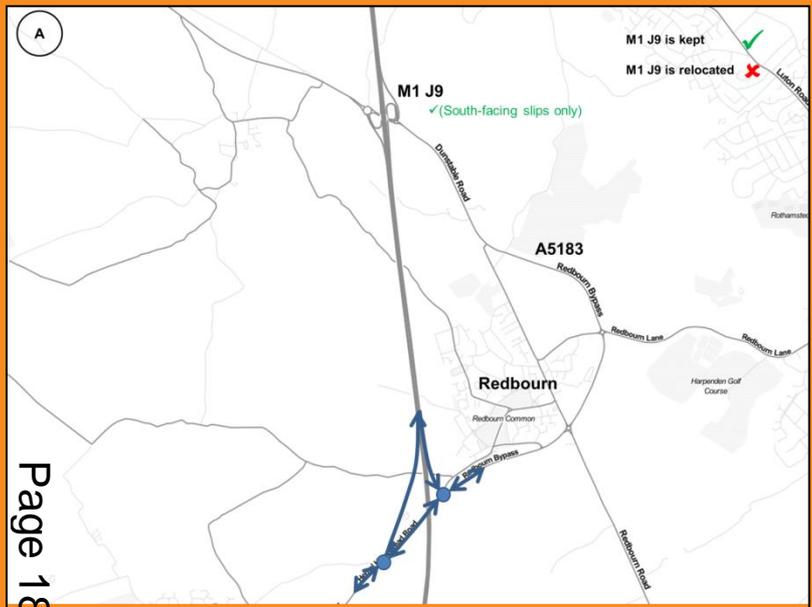
B - Parallel Merge/Diverge as for Taper Merge/Diverge by Notional Layout



There are a number of traffic movements which currently route via M1 J9 which could be influenced by the closure and relocation of the junction.

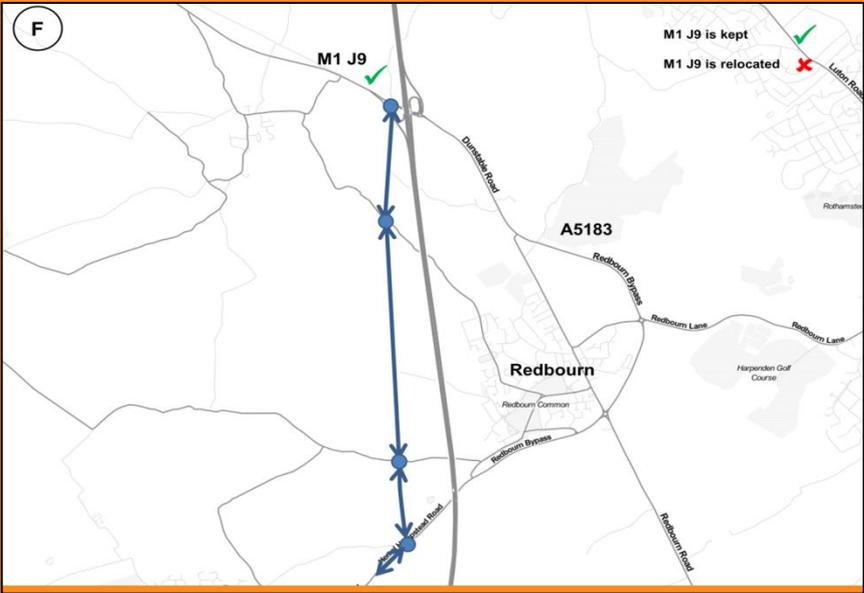
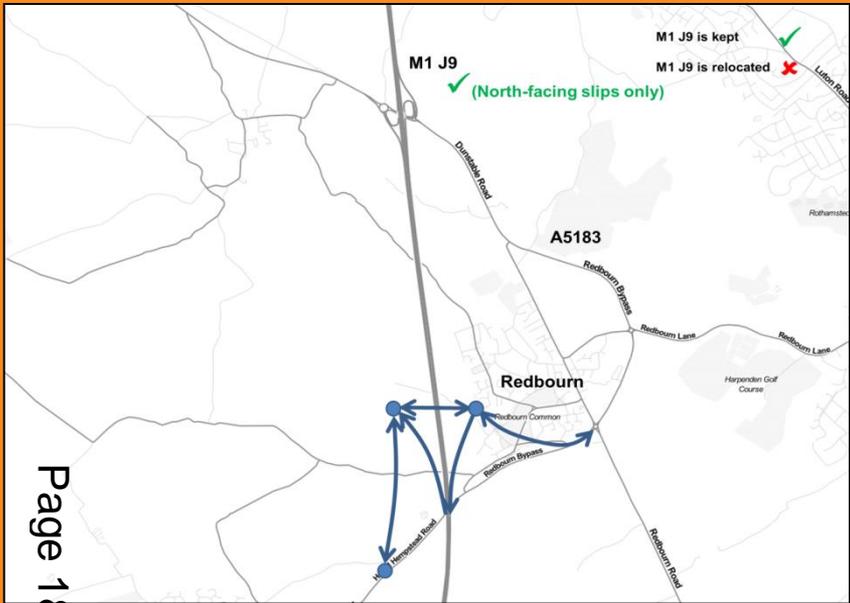


# Options A and B

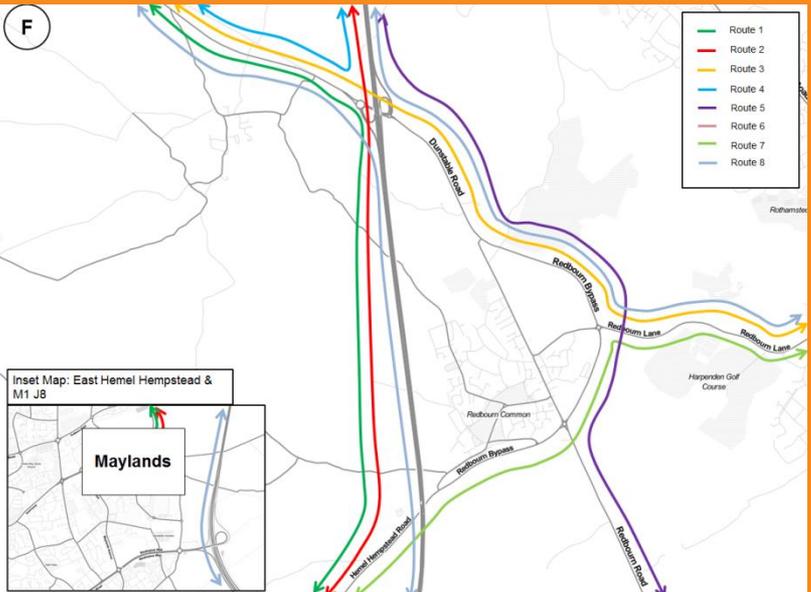
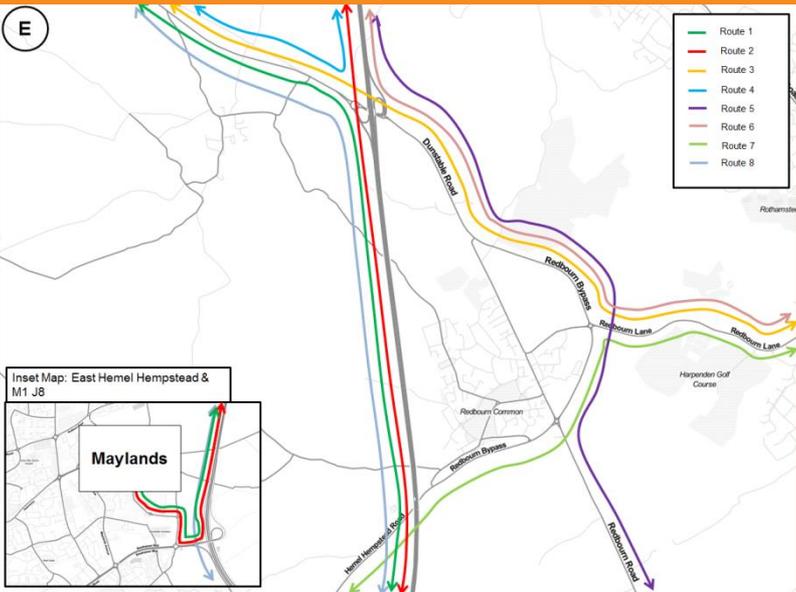




# Options E and F



Page 188



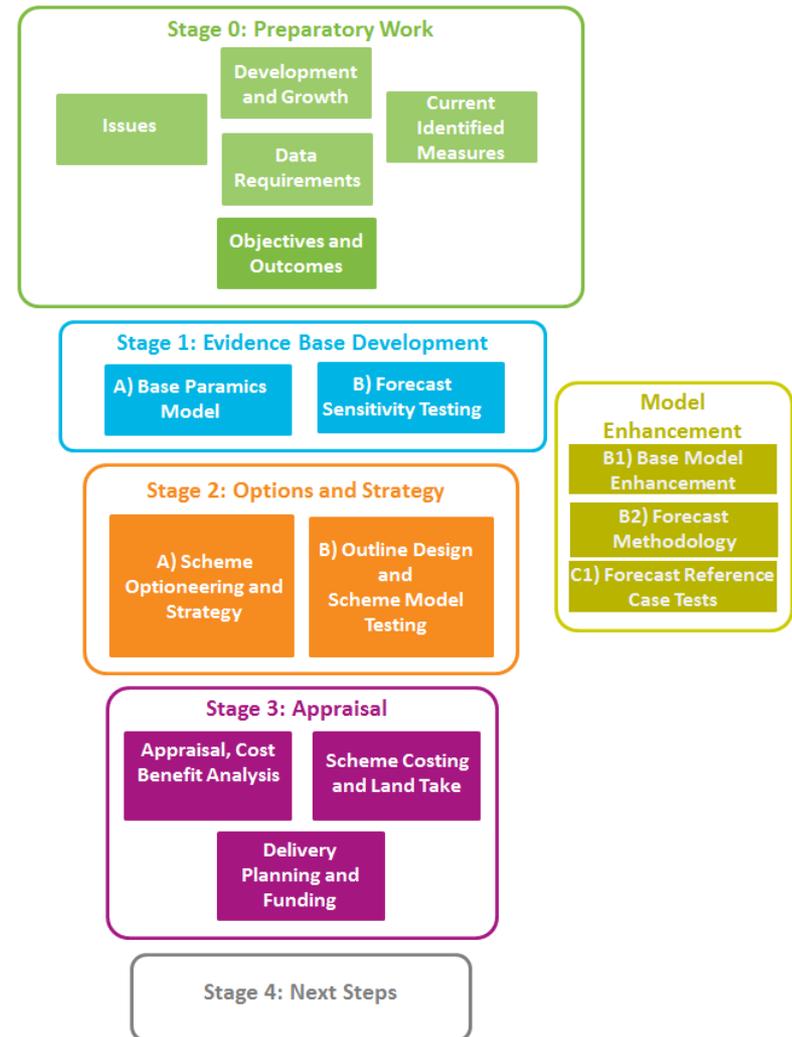
# 6/ Next Steps

Page 189

# Next Steps

- Finalise SC8 Bus Service Provision analysis and circulated report **(late August)**
  - Continue Model Enhancement – LMVR (June) Forecast Model **(late Aug)**
  - SC1 option development **(Sept)**
  - M1 J9 relocation mini study **(Aug)**
  - SC package testing in enhanced model **(est. Sept)**
  - Potential SC refinement - **TBC**
  - Scheme appraisal and study finalisation **(est. Sept-Oct)**
- Next progress meeting date...  
w/e 9<sup>th</sup> September?**

Page 190



# 7/ AOB

Page 191



