

High Speed Rail (West Midlands - Crewe)

Environmental Statement

Volume 5: Map book

Traffic and Transport (TR-03, TR-04 & TR-08)

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Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared for High Speed Two (HS2) Limited:

ARUP



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Map series name	TR-03 - Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes	TR-04 - Significant Residual Transport Effects Arising from Operation	TR-08 - Construction Routes to the Strategic Network
Map series description	<i>This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).</i>	<i>Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).</i>	<i>This map series identifies the main construction access routes for construction compounds to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.</i>
Community Area name			
CA1 Fradley to Colton	✓	✓	✓
CA2 Colwich to Yarlet	✓	✓	✓
CA3 Stone and Sywnnerton	✓	✓	✓
CA4 Whitmore Heath to Madeley	✓	✓	✓
CA5 South Cheshire	✓	✓	✓

Mapping explanatory notes

Structure of the HS2 Phase 2a Environmental Statement

This map book is part of the suite of documents that make up the Environmental Statement (ES) for Phase 2a of the proposed High Speed Two (HS2) rail network between the West Midlands and Crewe (the Proposed Scheme).

The ES documentation comprises the following:

- Non-technical summary. This provides: a summary in non-technical language of the Proposed Scheme and the reasonable alternatives studied; the likely significant effects of the Proposed Scheme; the means to avoid, prevent or reduce the likely significant environmental effects; and an outline of the monitoring measures to manage the effects of construction and the effectiveness of mitigation post construction, as well as appropriate operational phase monitoring.
- Glossary of terms and list of abbreviations. This contains terms and abbreviations, including units of measurement used throughout the ES documentation.
- Volume 1: Introduction and methodology. This provides: a description of HS2, the EIA process and the approach to consultation and engagement; details of the permanent features of the Proposed Scheme and general construction techniques; a summary of the scope and methodology for the environmental topics; an outline of the general approach to mitigation; an outline of the approach to monitoring, including measures to manage the effects of construction, the effectiveness of mitigation post construction, as well as the approach to operational phase monitoring; and a summary of the reasonable alternatives studied (including local alternatives studied prior to the November 2015 route announcement). Local alternatives studied post November 2015 are discussed in the relevant Volume 2 community area reports.
- Volume 2: Community area reports and map books. These cover the following community areas: 1 Fradley to Colton; 2 Colwich to Yarlet; 3 Stone and Swynnerton; 4 Whitmore Heath to Madeley; and 5 South Cheshire. The reports provide the following for each area: an overview of the area; a description of the construction and operation of the Proposed Scheme within the area; a summary of the local alternatives studied since November 2015; a description of the environmental baseline; a description of the likely significant environmental effects of the Proposed Scheme; the proposed means to avoid, prevent or reduce the likely significant environmental effects; and the proposals for monitoring, including measures during and post construction, and during the operational phase.
The maps relevant to each community area are provided in separate Volume 2 map books. These maps should be read in conjunction with the relevant community area report. These maps include the location of the key environmental features (Map Series CT-10), key construction features (Map Series CT-05) and key operation features (Map Series CT-06) of the Proposed Scheme. There are also specific maps showing viewpoint and photomontage locations (Map Series LV, to be read in conjunction with Section 11, Landscape and visual of the Volume 2: community area reports) and noise contours (Map Series SV, to be read in conjunction with Section 13, Sound, noise and vibration of the Volume 2: community area reports).
- Volume 3: Route-wide effects. This describes the likely significant environmental effects that are likely to occur at a geographical scale greater than the community areas described in Volume 2.
- Volume 4: Off-route effects. This provides an assessment of the likely significant environmental effects of the Proposed Scheme at locations beyond the Phase 2a route corridor and its associated local environment. The maps relevant to the assessment of off-route effects are provided in a separate map book.
- Volume 5: Appendices and map books. This contains supporting technical information and associated map books to be read in conjunction with the other volumes of the ES.

Copyright statements

Copyright statements are presented in the Data dictionary and definitions section at the front of the map book, due to limited space to include this on the individual maps themselves.

Ordnance Survey data

All maps produced as part of the ES contain Ordnance Survey (OS) data. HS2 Ltd use the most up to date mapping available, where possible, supplied by the OS and as such, we cannot be held responsible for any inaccuracies within this data.

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Chainage

Most of the maps presented as part of the ES have a chainage value shown next to the alignment. Chainage is presented on the maps in black font, in the form of XX+YYY. E.g. 192+000 or 239+500.

Chainage (known as reference chainage) is referenced from Euston Station, which is 0+000, and the value presented is in metres. E.g. 192+000 refers to the point, 192,000m, or 192km, from Euston Station. Chainage values increase in intervals dependant on the map scale. For maps at 1:50,000 scale chainage is shown at 5km intervals. For maps at 1:25,000 scale chainage is shown at 2km intervals. For maps at 1:20,000, 1:10,000, 1:5,000 and 1:2,500 scales, chainage is shown at 1km intervals.

Chainage has been included on the maps as a useful tool for comparing different map sets showing the different environmental themes or engineering plans, due to map sets having different scales and therefore showing differing amounts of alignment on the map.

Map orientation

The majority of the maps presented in these map books are presented with the railway alignment running horizontally across the page. The direction of travel to London would be following the alignment to the right hand side of the page, and Crewe to the left.

The exception to this, are map series LV-02, LV-03, LV-04, LV-07 and LV-08, which present the alignment running from bottom to top of the page. This is to allow more of the modelled outputs to be shown at the appropriate map scale. In this instance, the direction of travel to London would be to the bottom of the page, and Crewe to the top. Map series TR-08 is orientated north.

Map books

In total there are 22 map books which make up the ES, spread across volumes 2, 4 and 5. A list of the titles is provided below for reference.

Name	Name
Volume 2: Map book – CA1: Fradley to Colton	Volume 5: Map book – Land Quality (LQ-01)
Volume 2: Map book – CA2: Colwich to Yarlet	Volume 5: Map book – CA1: Fradley to Colton - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA3: Stone and Swynnerton	Volume 5: Map book – CA2: Colwich to Yarlet - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA4: Whitmore Heath to Madeley	Volume 5: Map book – CA3: Stone and Swynnerton - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 2: Map book – CA5: South Cheshire	Volume 5: Map book – CA4: Whitmore Heath to Madeley - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 4: Map book – Off-route effects	Volume 5: Map book – CA5: South Cheshire - Landscape and visual (LV-00, LV-02, LV-07, LV-08, LV-17)
Volume 5: Map book – Agriculture, forestry and soils (AG-01, AG-02 & AG-04)	Volume 5: Map book – Planning Data/Committed Development (CT-13)
Volume 5: Map book – Air quality (AQ-01)	Volume 5: Map book – Socio-Economics (SE-01)
Volume 5: Map book – Community (CM-01)	Volume 5: Map book – Sound, Noise and Vibration (SV-01, SV-02, SV-03 & SV-04)
Volume 5: Map book – Cultural Heritage (CH-01, CH-02, CH-03)	Volume 5: Map book – Traffic and Transport (TR-03, TR-04 & TR-08)
Volume 5: Map book – Ecology - designated sites (EC-01)	Volume 5: Map book – Water Resources and Flood Risk (WR-01, WR-02, WR-03, WR-05, WR-06)

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High Speed Rail (West Midlands-Crewe)
Environmental Statement
Data dictionary and definitions

Data dictionary and definitions

Legend features	Definition	Source	Copyright
Community area boundary	The Environmental Statement has been split into 5 sections called Community Areas.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Compound Traffic Routes	Public highways which may be used for HGV construction traffic to construction compounds.	High Speed Two (HS2) Ltd	
Construction Compounds	Main construction compounds in which main contractors offices and welfare facilities will be located. Satellite construction compounds which serve local works for major construction elements within a main contract.	High Speed Two (HS2) Ltd	
Construction Significant Effects: Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent	Adverse – deterioration in existing conditions as a result of the Proposed Scheme Beneficial – improvement of existing conditions as a result of the Proposed Scheme Permanent – permanent change as a result of the Proposed Scheme Temporary – temporary change as a result of the Proposed Scheme (likely within construction phase of scheme).	High Speed Two (HS2) Ltd	
Construction traffic route	Public highways which may be used for HGV construction traffic.	High Speed Two (HS2) Ltd	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
County boundary	County boundaries from Ordnance Survey boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Depot, station, headhouse or portal building	Extends to cover operational footprint of each depot and station and the footprint of each tunnel vent shaft and headhouse at surface level. Excludes any ancillary buildings associated with these structures.	High Speed Two (HS2) Ltd	
District/Borough boundary	Ordnance Survey local authority boundary mapping.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Land potentially required during construction	Boundary defining the maximum possible extent of construction works required to build HS2 as far as the current level of design allows. This only covers surface works and includes all tunnel portals, vent shafts and headhouses, but does not apply to wholly tunnelled sections or to air rights. It also encompasses associated highway, access, drainage and utility works.	High Speed Two (HS2) Ltd	
Movement of Excavated Material	Public highways which may be used for HGV movements of excavated material to construction compounds.	High Speed Two (HS2) Ltd	
Onward Construction Routes	Directional symbol that indicates the construction routes continuing along the Strategic Road Network.	High Speed Two (HS2) Ltd	
Operational Significant Effects: Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent	Adverse- deterioration in existing conditions as a result of the Proposed Scheme Beneficial – improvement of existing conditions as a result of the Proposed Scheme Permanent – permanent change as a result of the Proposed Scheme, effects can be for 2027, 2041 or both operational assessment years. Temporary – temporary change as a result of the Proposed Scheme.	High Speed Two (HS2) Ltd	
Route in tunnel Route on surface	Represents the proposed route of HS2, split into route on surface and tunnelled sections.	High Speed Two (HS2) Ltd	
Significant effects reference	Identifier code for transport-related residual significant effects, including - SMR category of effect, CA the effect is located within, individual identification number, whether the significant effect is major, moderate or minor (Significance Criteria Technical Note) and which operational year the effect is predicted.	High Speed Two (HS2) Ltd	

Legend features	Definition	Source	Copyright
Site Haul to Compound	Construction traffic access or movement of excavated materials that may use the site haul road, usually from public highway to construction compound.	High Speed Two (HS2) Ltd	
Through Construction Traffic Routes (To/From Other Scheme Compounds)	Compound traffic routes from neighbouring CAs that may use the public highways within the represented CA.	High Speed Two (HS2) Ltd	
Through Site Haul to Compound (To/From Other Scheme Compounds)	Construction traffic access or movement of excavated materials from neighbouring CAs that may use site haul roads within the represented CA.	High Speed Two (HS2) Ltd	
Water body	Any mass of water having definite hydrological, physical, chemical and biological characteristics.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.
Watercourse	Any channel through which water flows, can be natural or manmade. They are split into two categories (main rivers or ordinary watercourses) in England and Wales for regulation purposes.	Environment Agency	© Environment Agency copyright and/or database right 2017. All rights reserved.
Woodland	Woodland areas derived from Ordnance Survey MasterMap data.	Ordnance Survey	© Crown copyright. Reproduced by permission of Ordnance Survey Licence Number 100049190. Year of Publication 2017.

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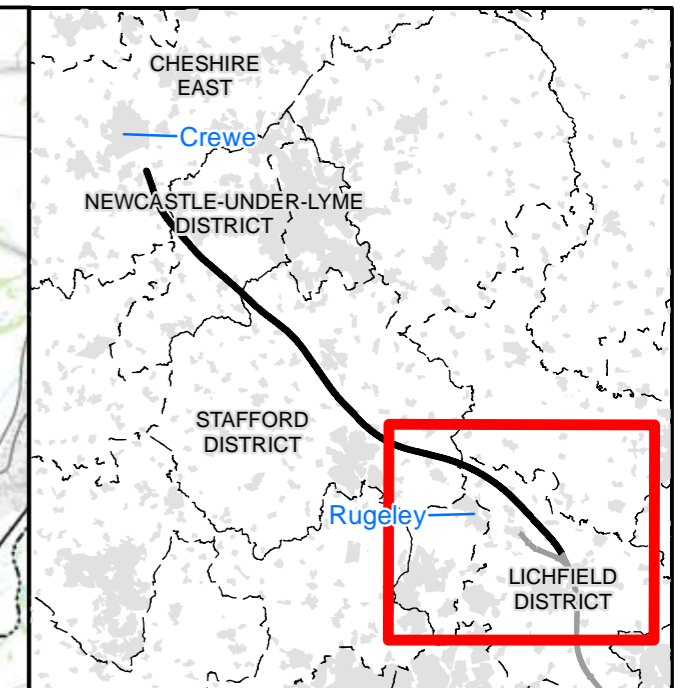
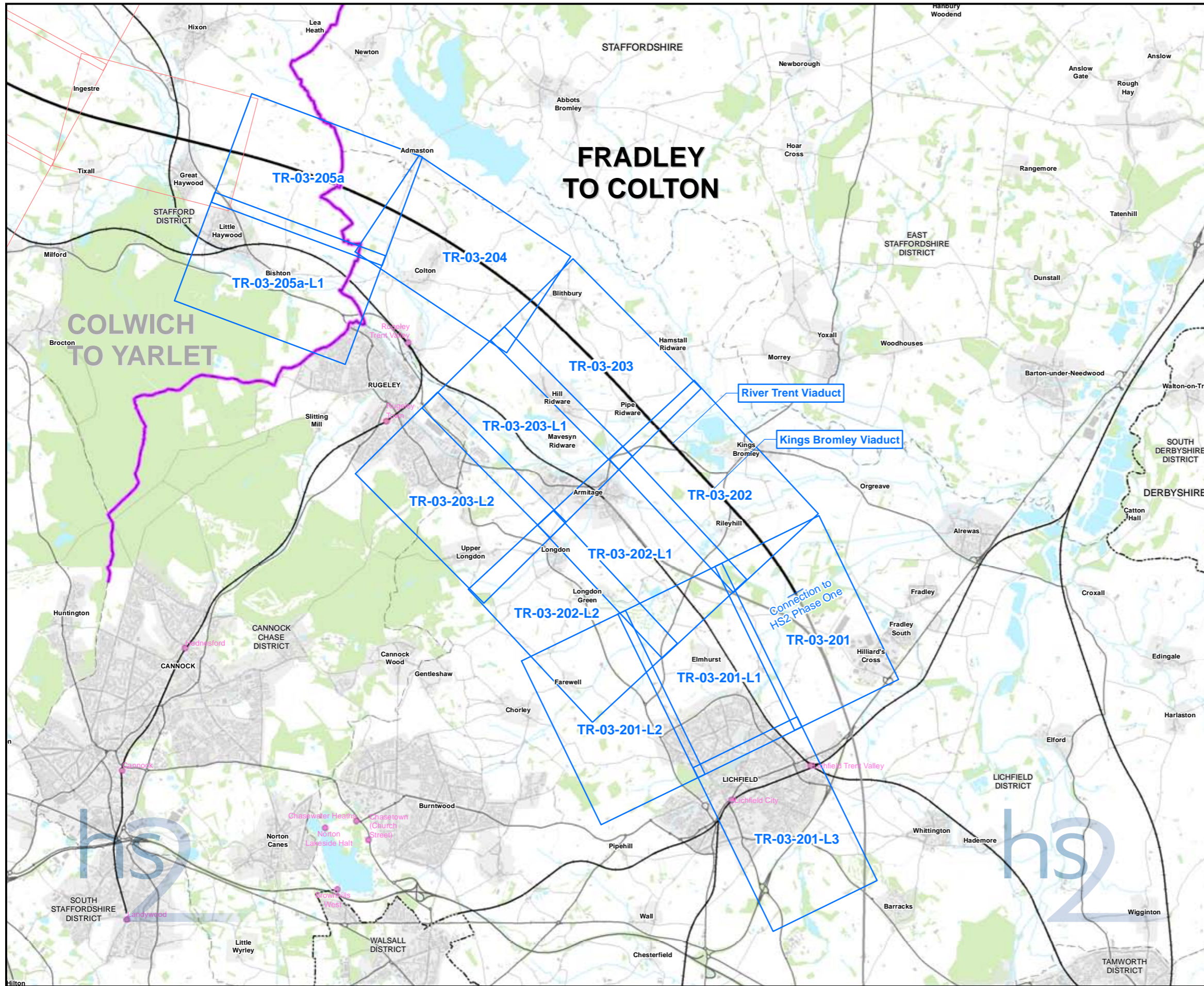
Environmental Statement

CA1 Fradley to Colton

**TR-03 - Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes**

TR-04 - Significant Residual Transport Effects Arising from Operation

TR-08 - Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	TR-03-INDEX-CA1
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes
Community Area 1: Fradley to Colton	

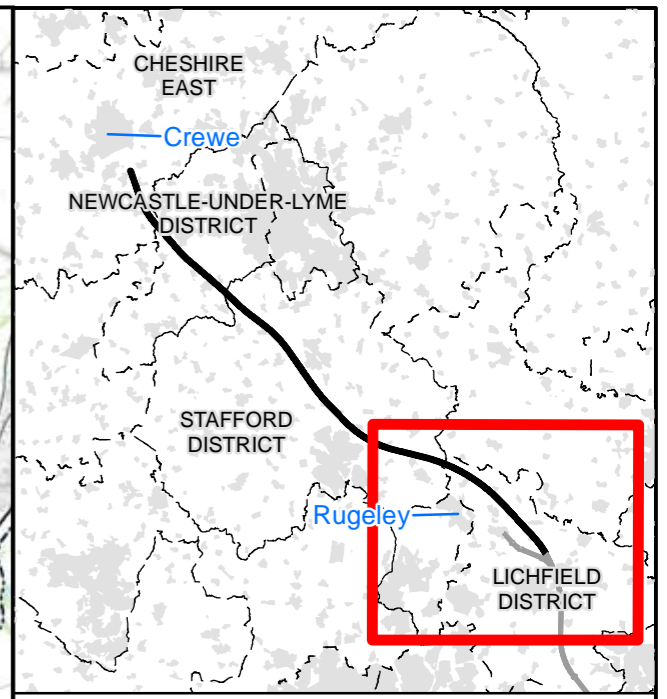
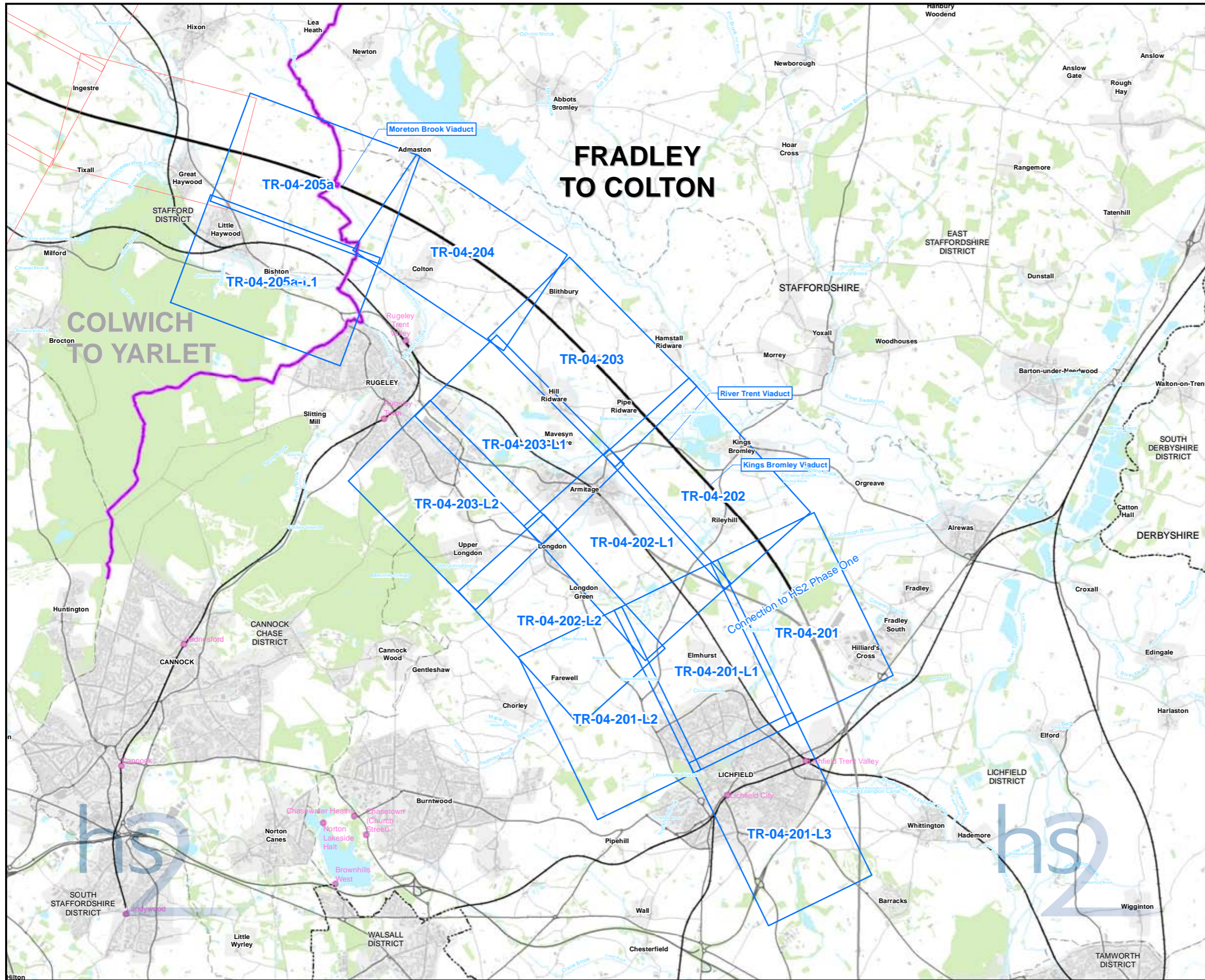
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Doc Number: C861-ARP-EV-MAP-000-143001 - P04 **Date: 14/06/17**



Map Series Information:

Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number	TR-04-INDEX-CA1
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation
Community Area 1: Fradley to Colton	

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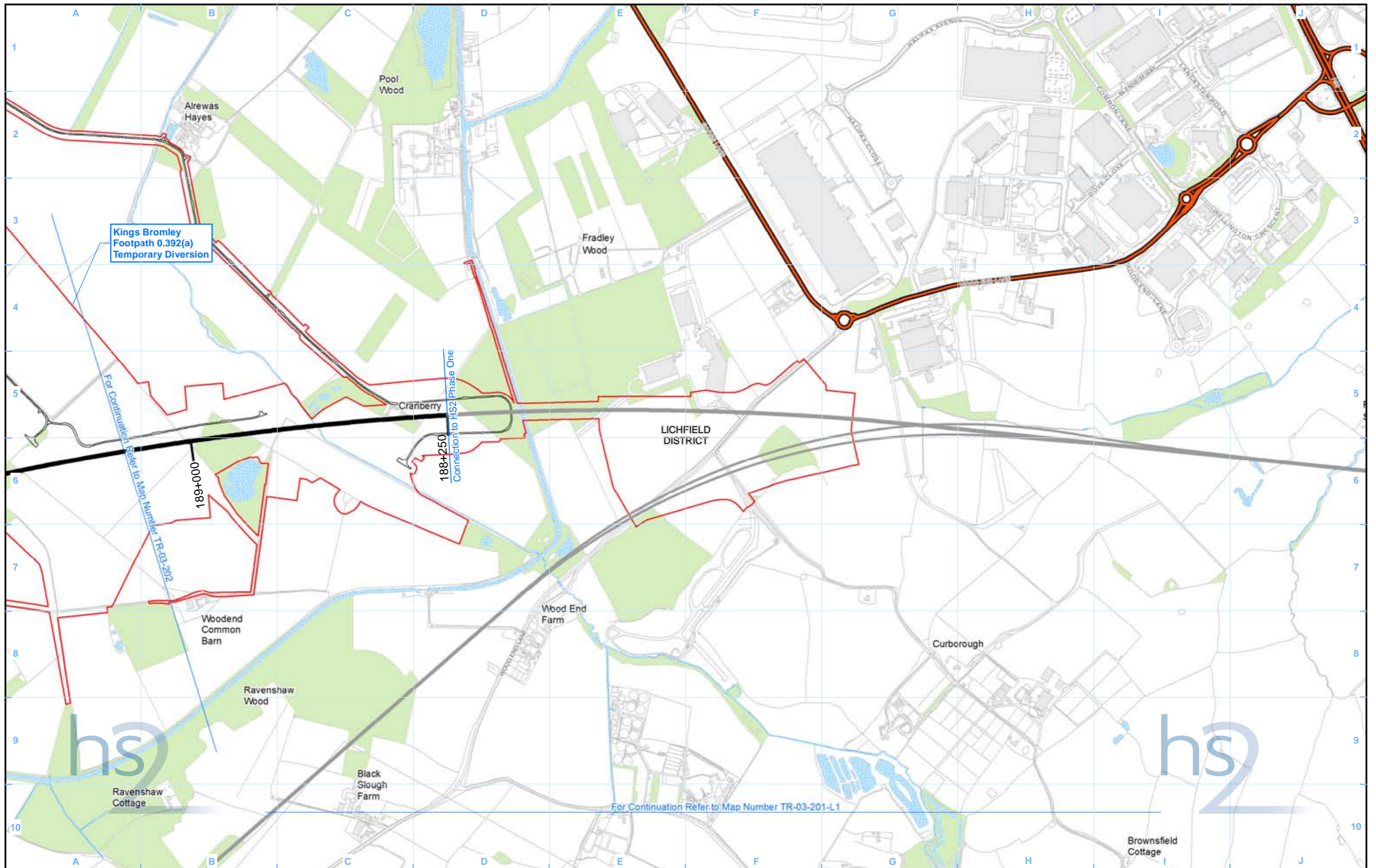
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Metres

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-201

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 1: Fradley to Colton

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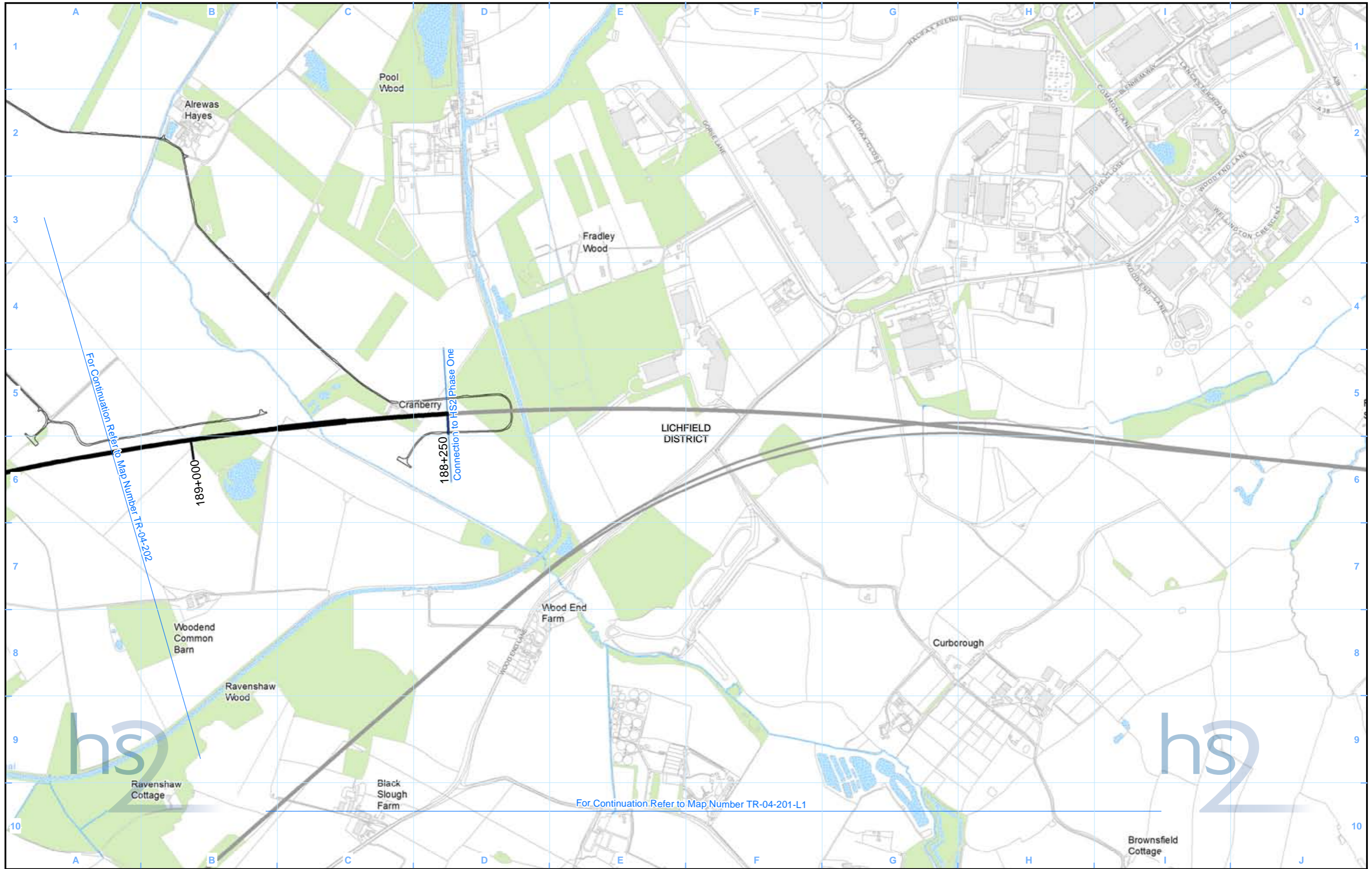
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Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-201

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: Fradley to Colton

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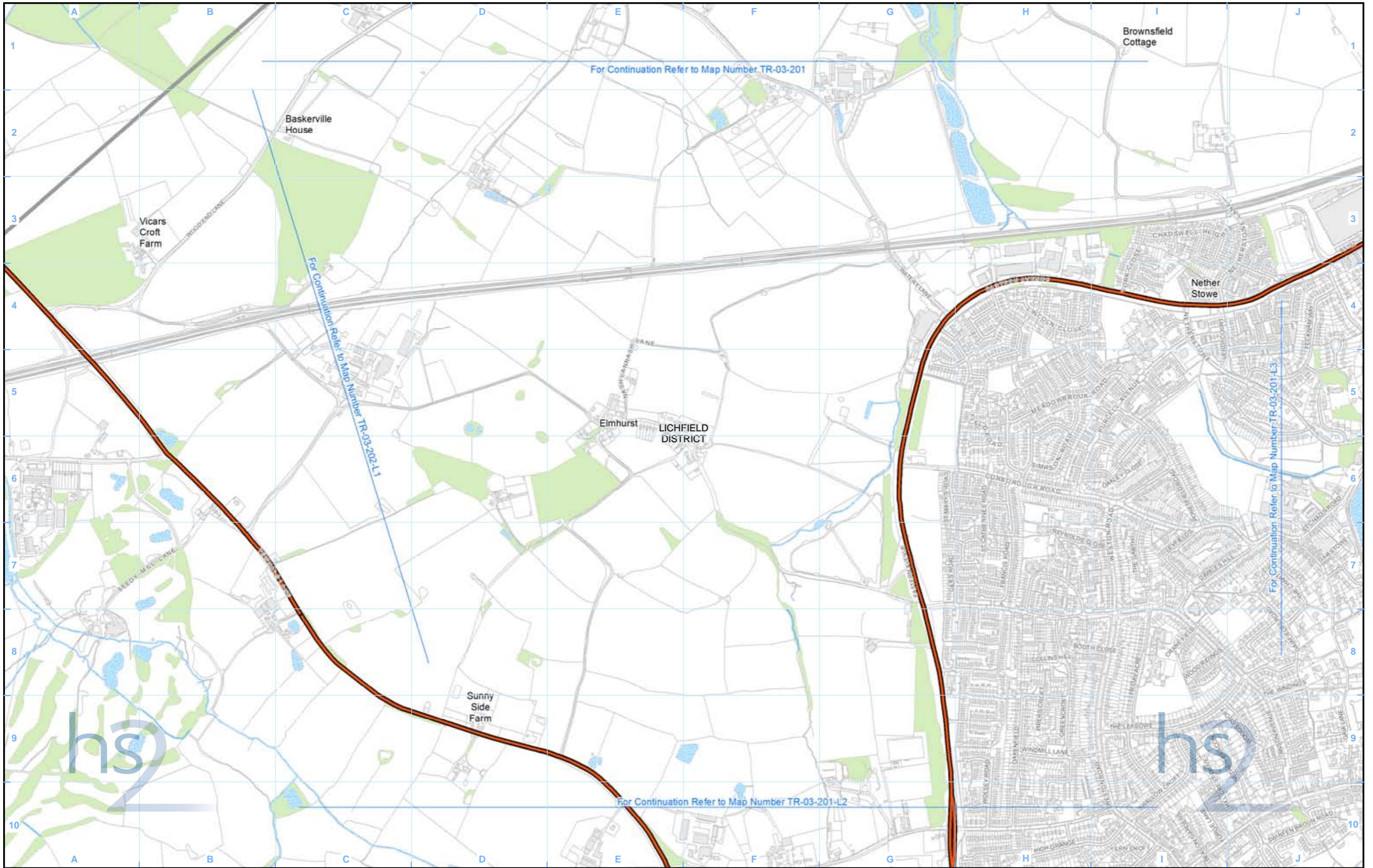
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: **TR-03-201-L1**

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 1:
Fradley to Colton

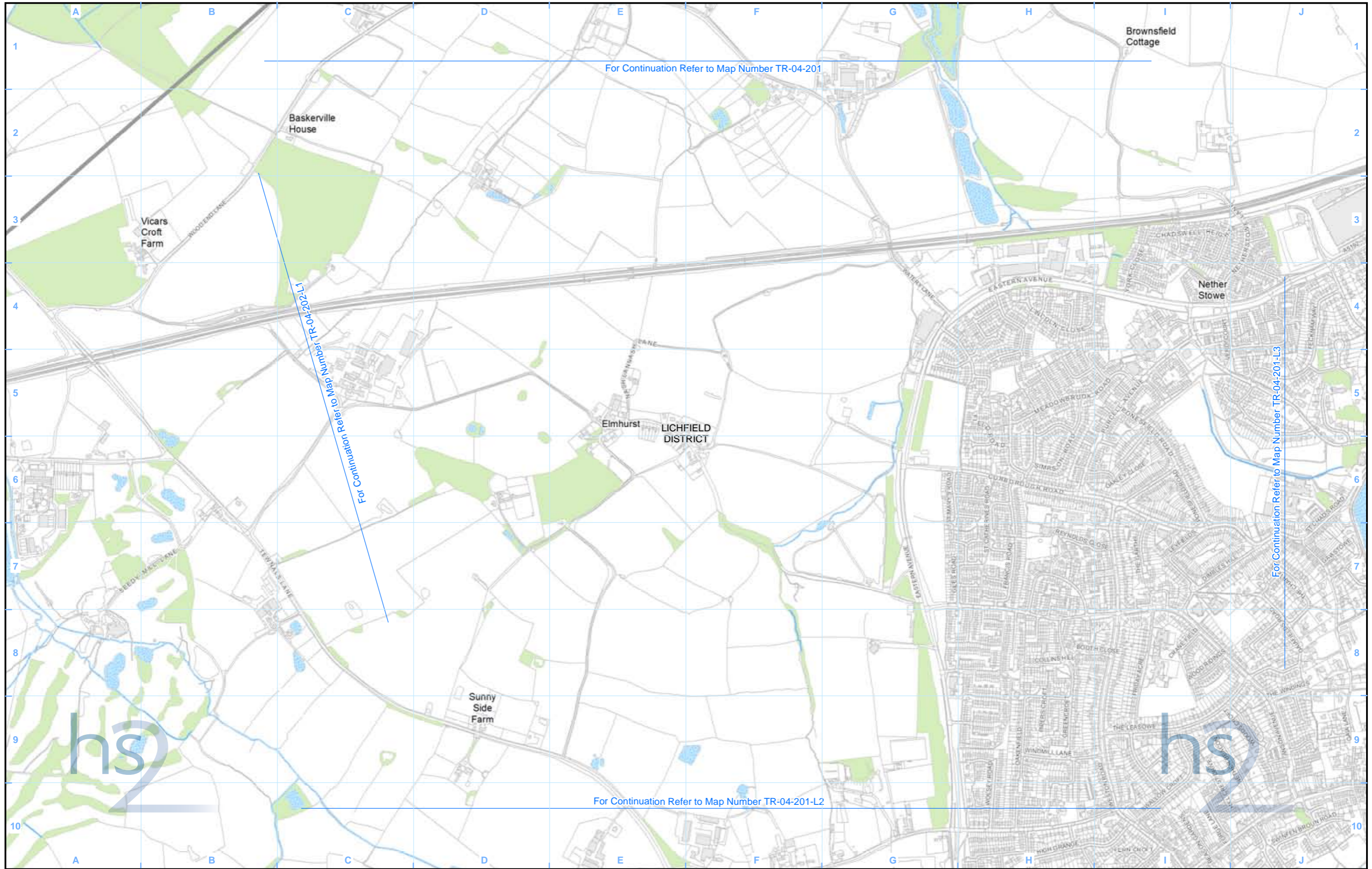
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Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: **TR-04-201-L1**

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: **Fradley to Colton**

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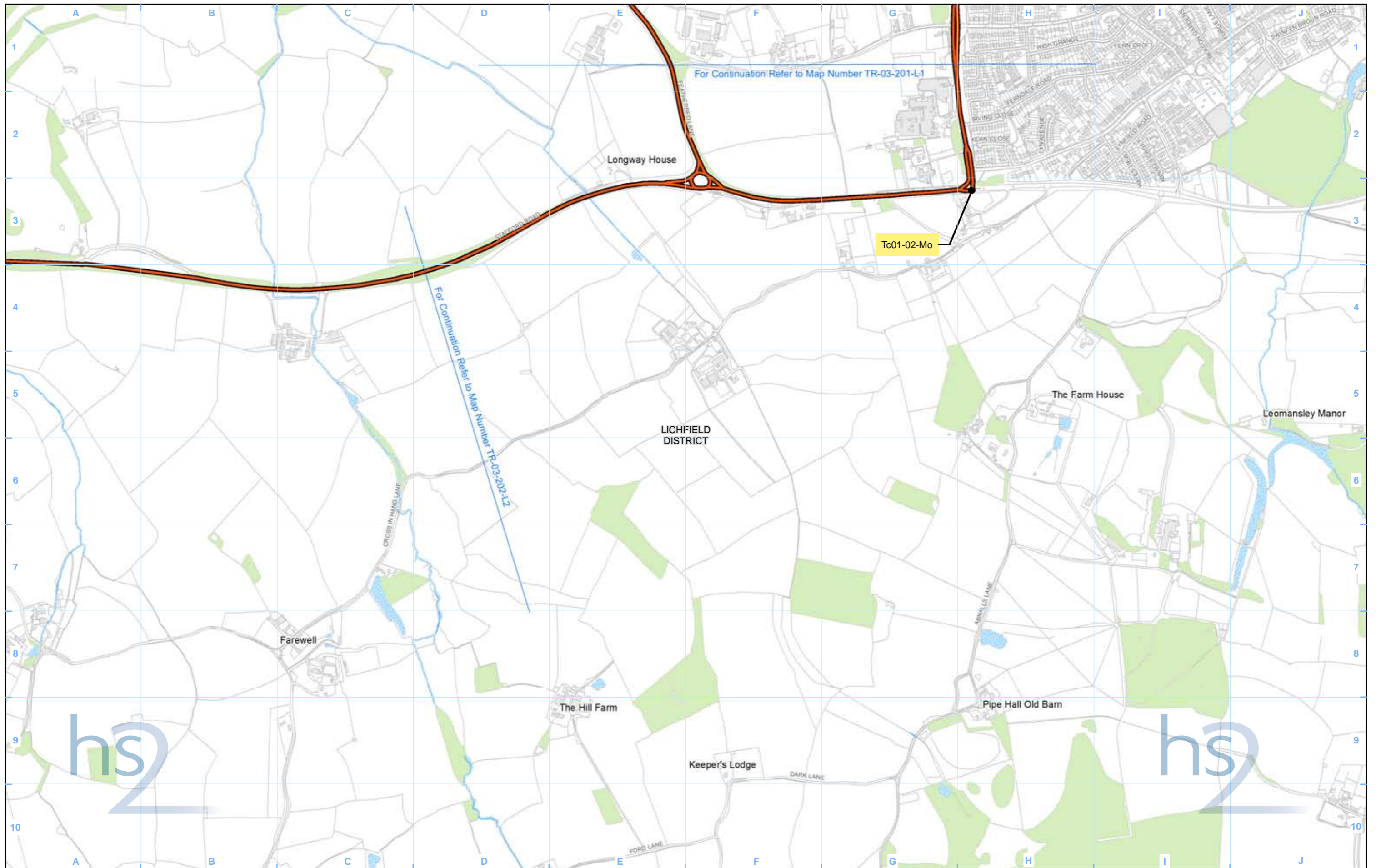
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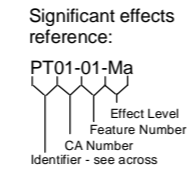
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-201-L2**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 1:
Fradley to Colton

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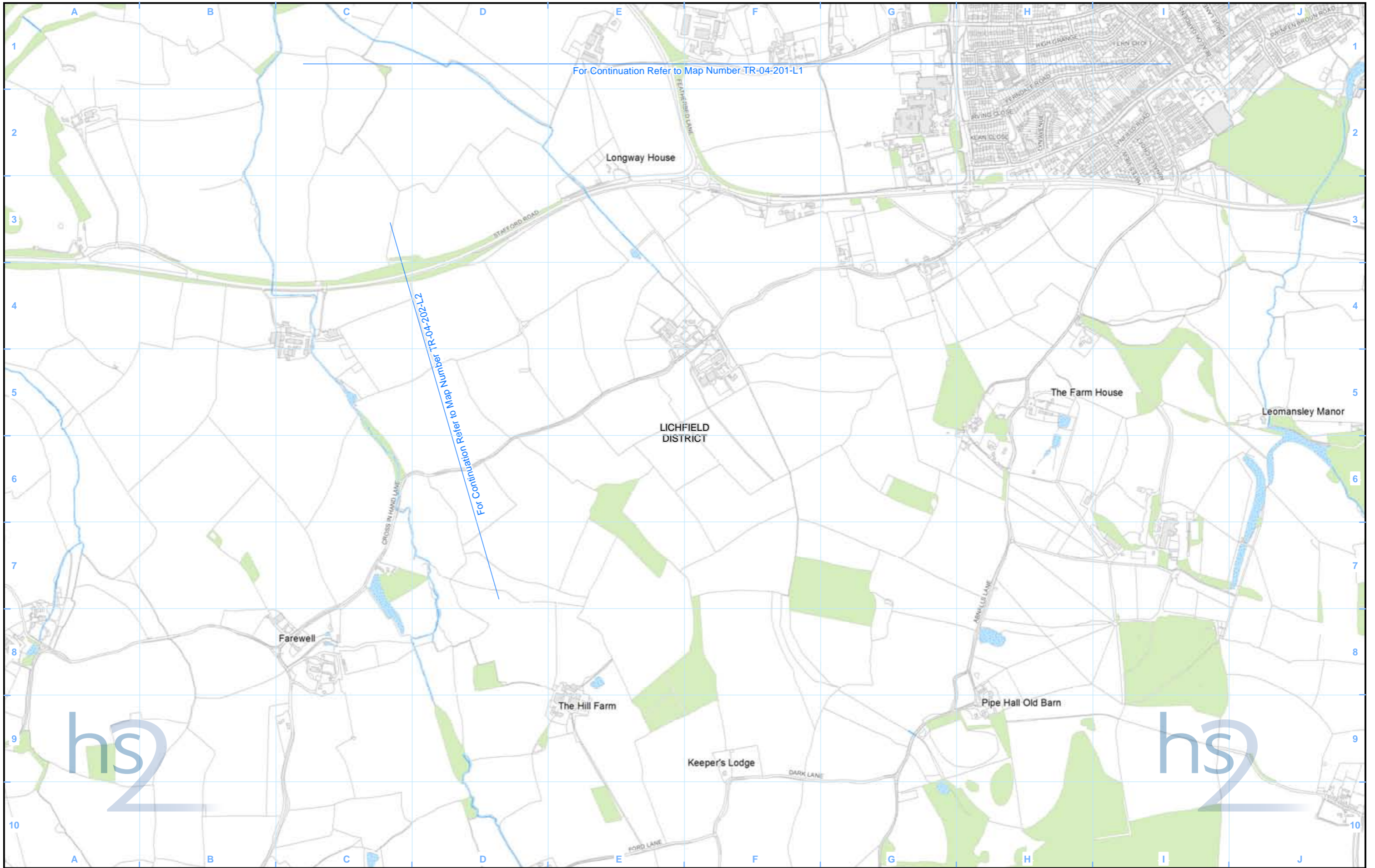
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Doc Number: C861-ARP-EV-MAP-000-143401 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-201-L2

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: Fradley to Colton

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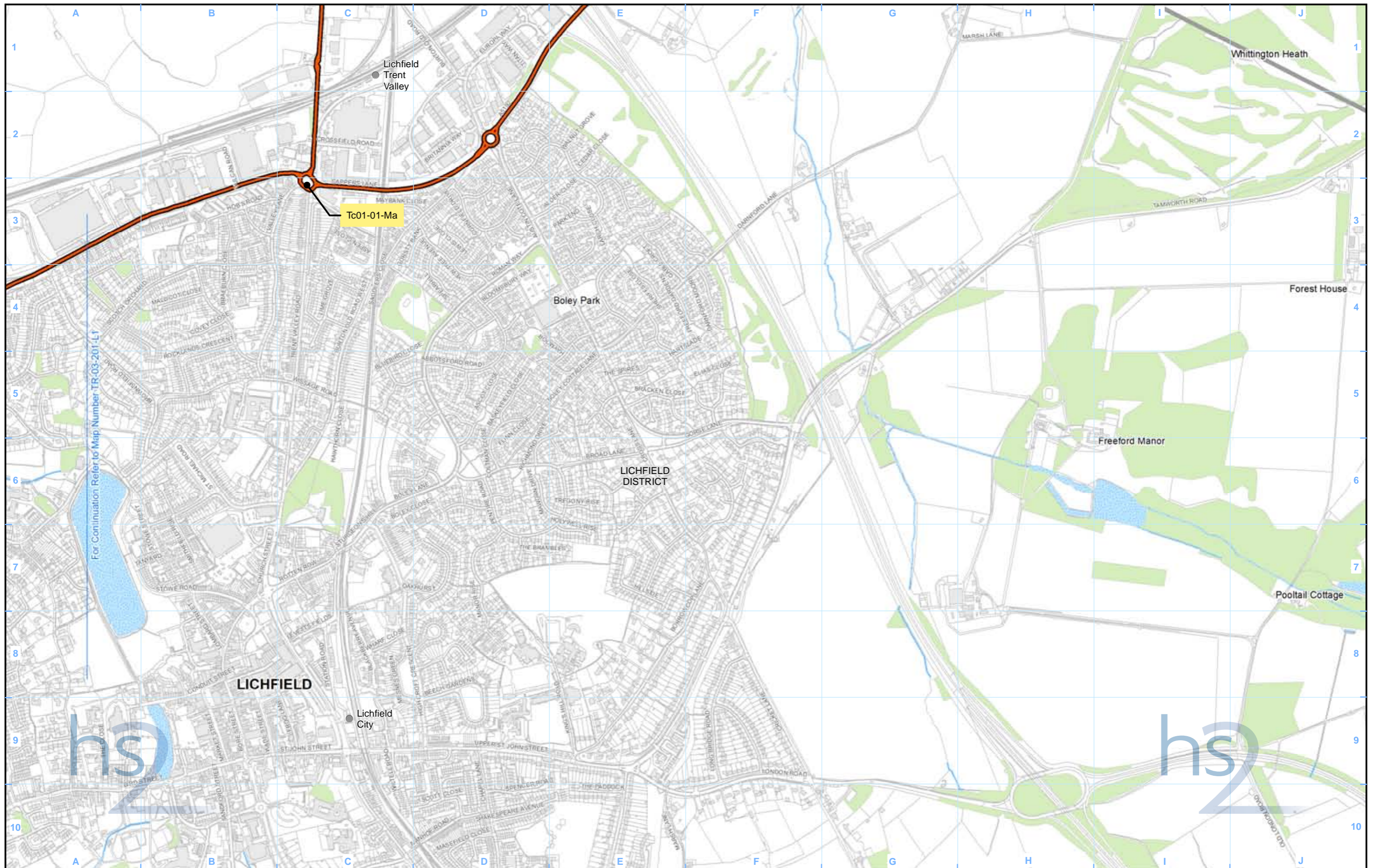
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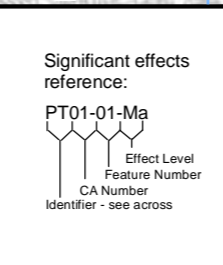
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-201-L3

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1: Fradley to Colton

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Date: 14/06/17



For Continuation Refer to Map Number TR-04-201-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-201-L3

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1:
Fradley to Colton

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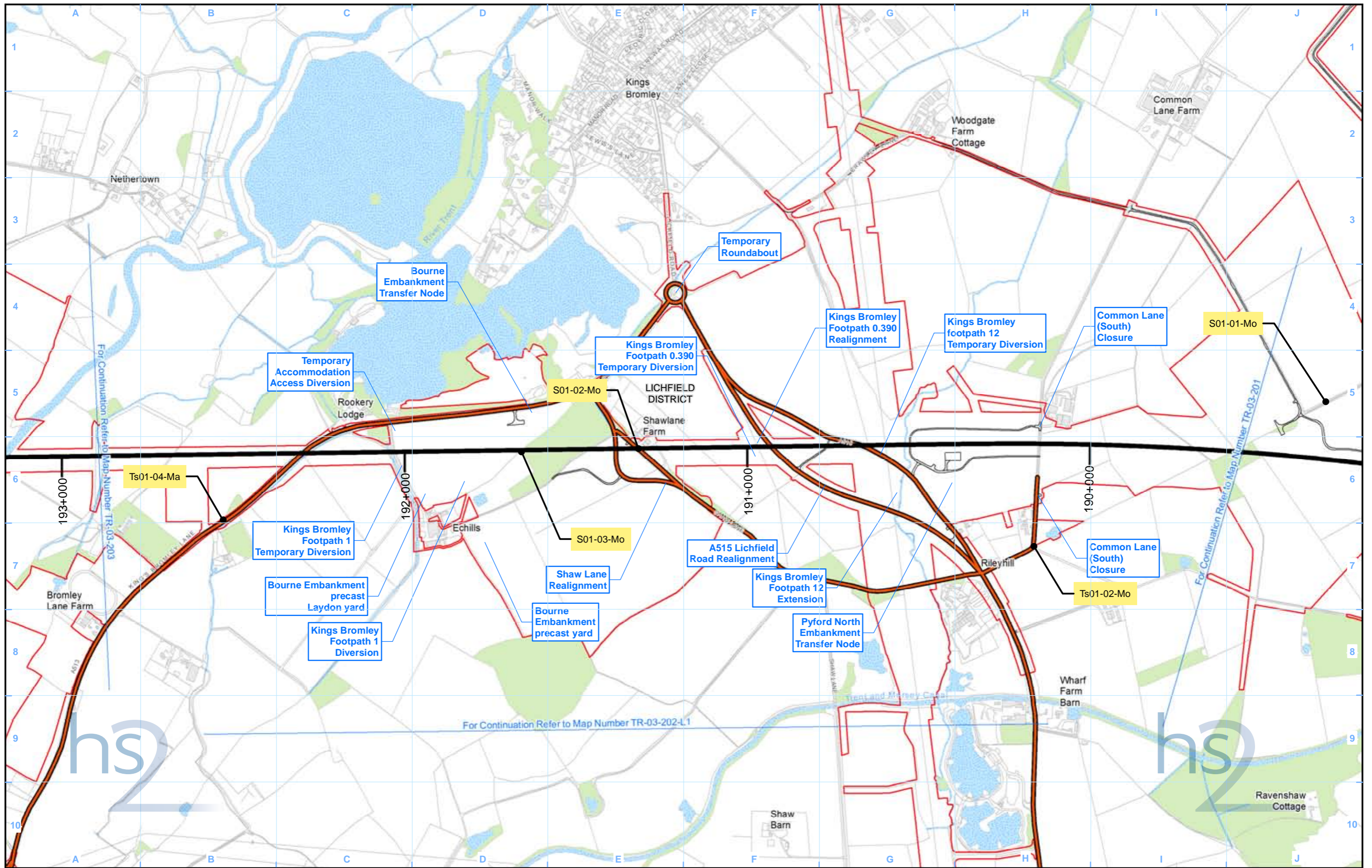
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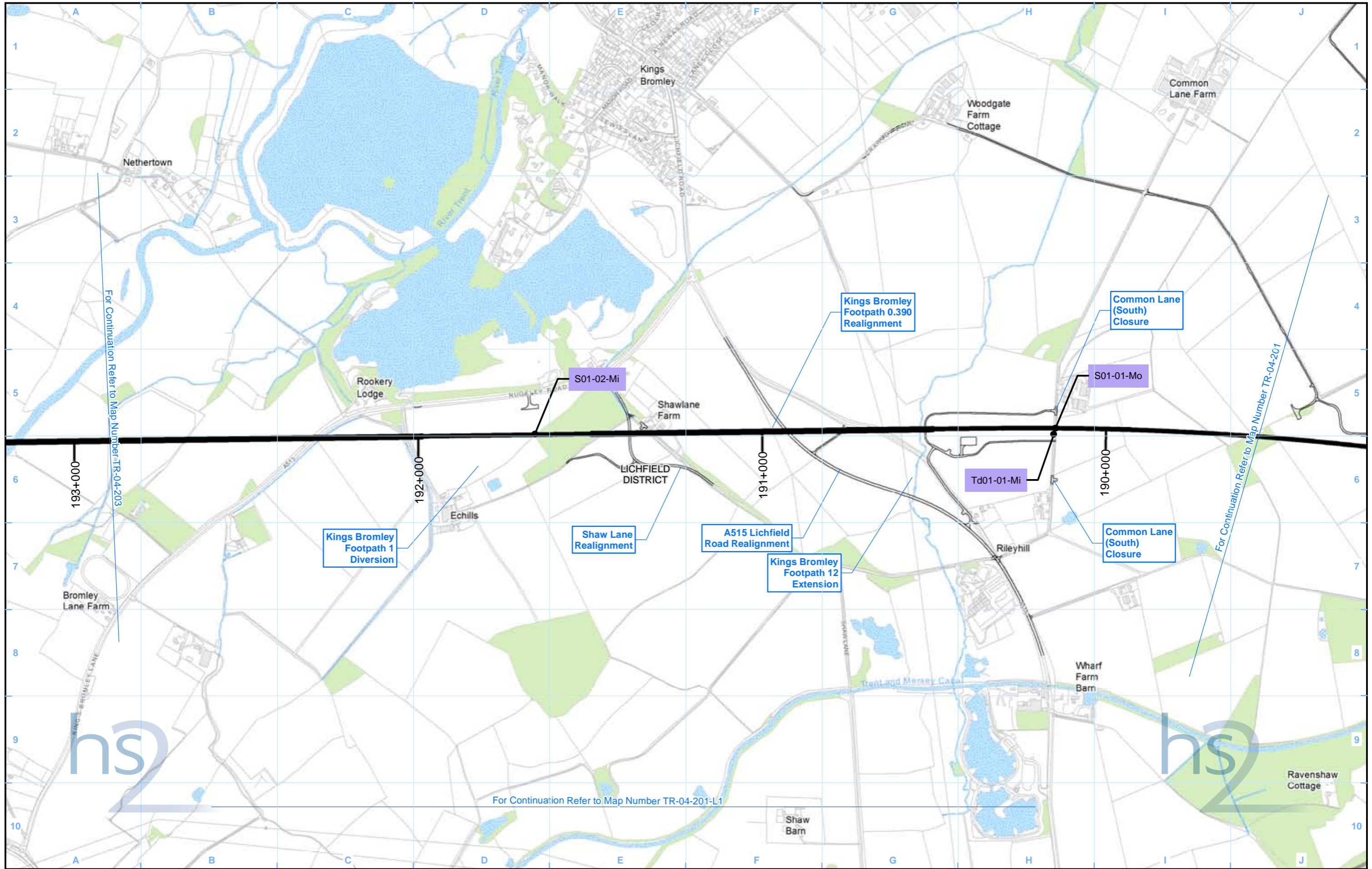
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Doc Number: C861-ARP-EV-MAP-000-144501 P04

Date: 15/06/17



Legend <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	Construction significant effects: <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	Significant effects reference: PT01-01-Ma Effect Level Feature Number CA Number Identifier - see across	Construction effects identifiers: PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways	Effect level: Mi - Minor Mo - Moderate Ma - Major	Map Number TR-03-202 Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes Community Area 1: Fradley to Colton	 <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-143202 P04</p> <p>Scale at A3: 1:10,000</p> <p>Metres</p> <p>Date: 14/06/17</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-202

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 1: Fradley to Colton

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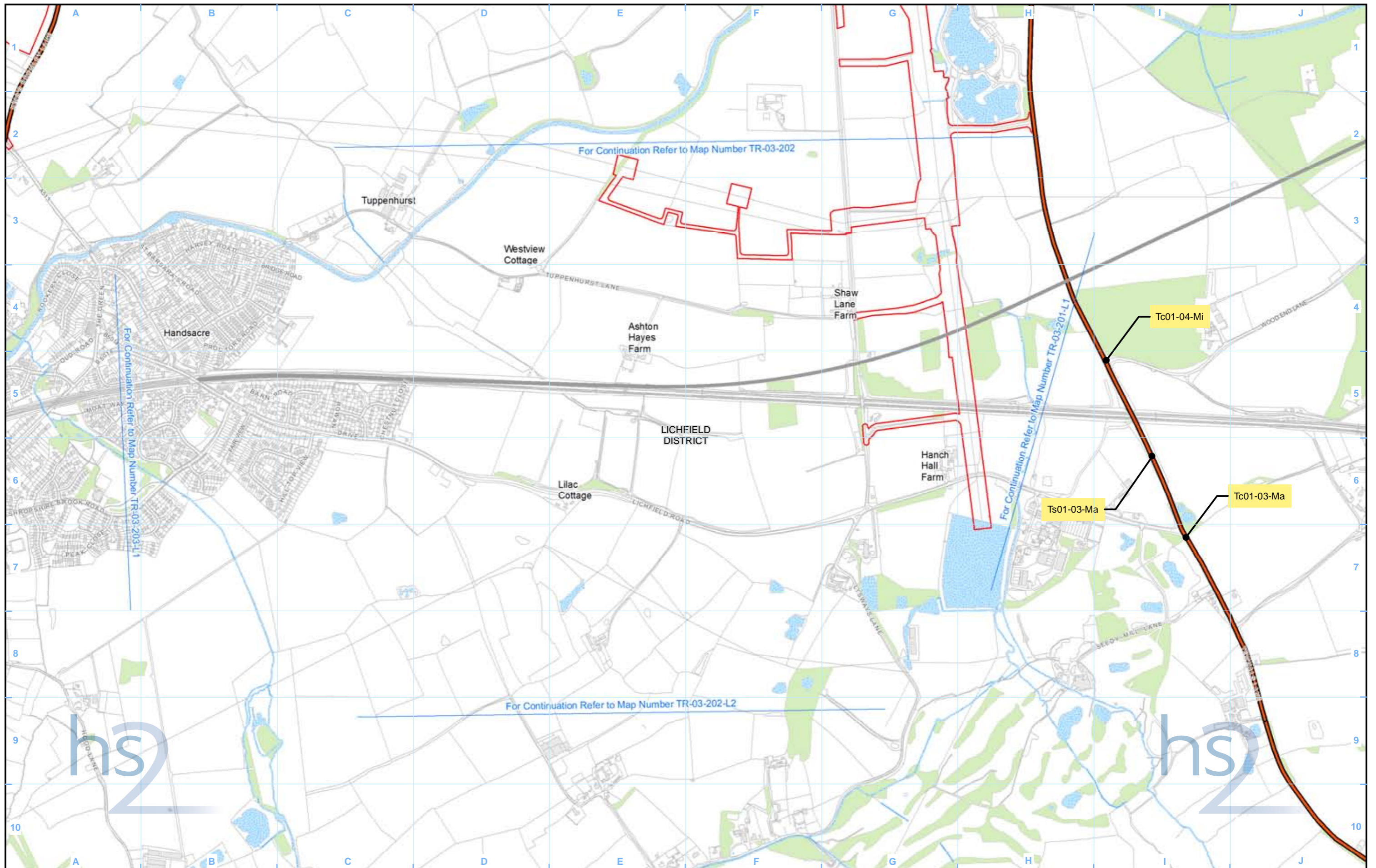
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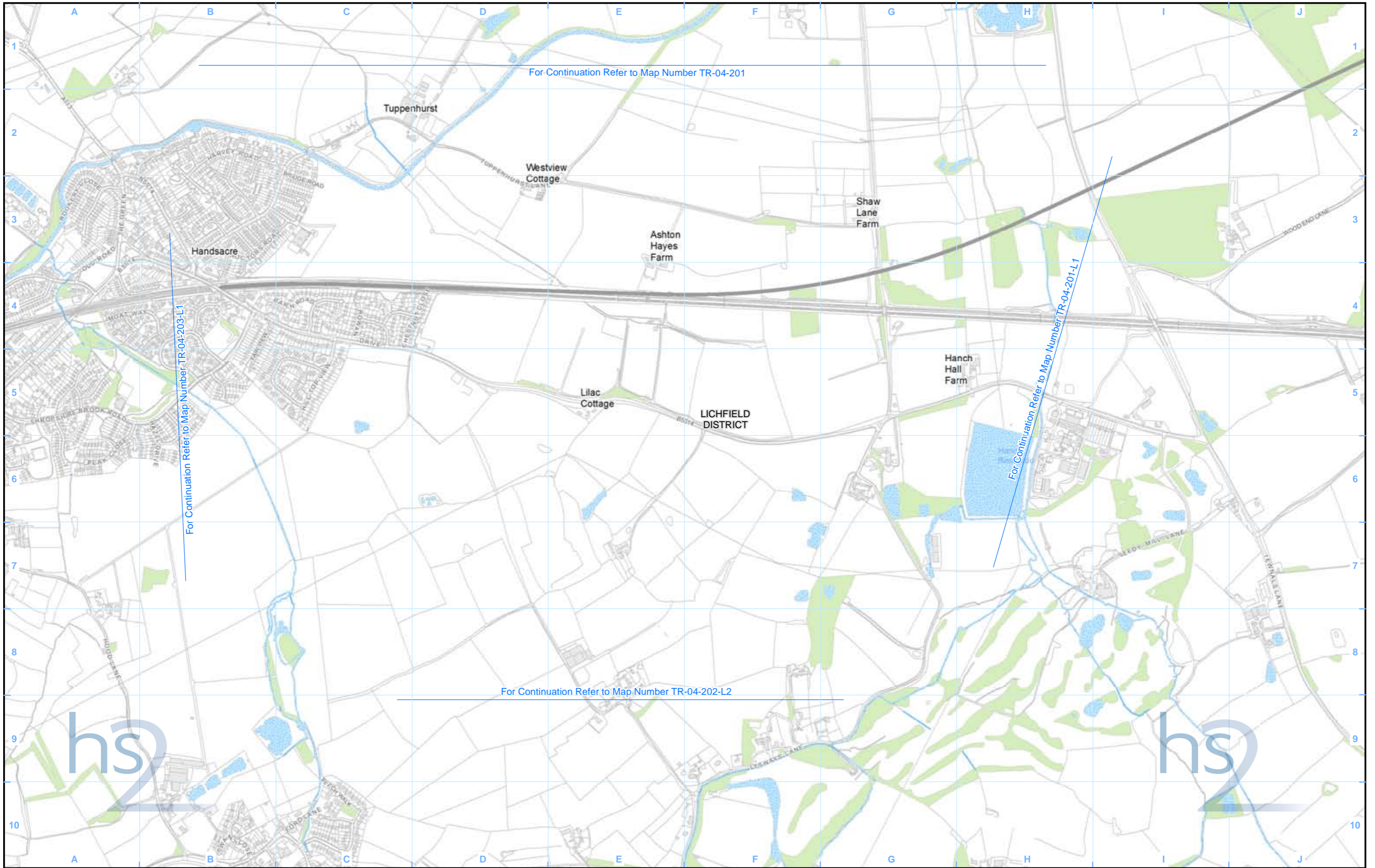
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Doc Number: C861-ARP-EV-MAP-000-144202 P04

Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<p> Watercourse</p> <p> Water body</p> <p> Woodland</p>	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>CA Number Effect Level Feature Number</p> <p>Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-202-L1</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 1: Fradley to Colton</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-143302 P04</p> <p>Date: 14/06/17</p> <p>Scale at A3: 1:10,000</p> <p></p> <p>Metres</p> <p></p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-202-L1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: Fradley to Colton

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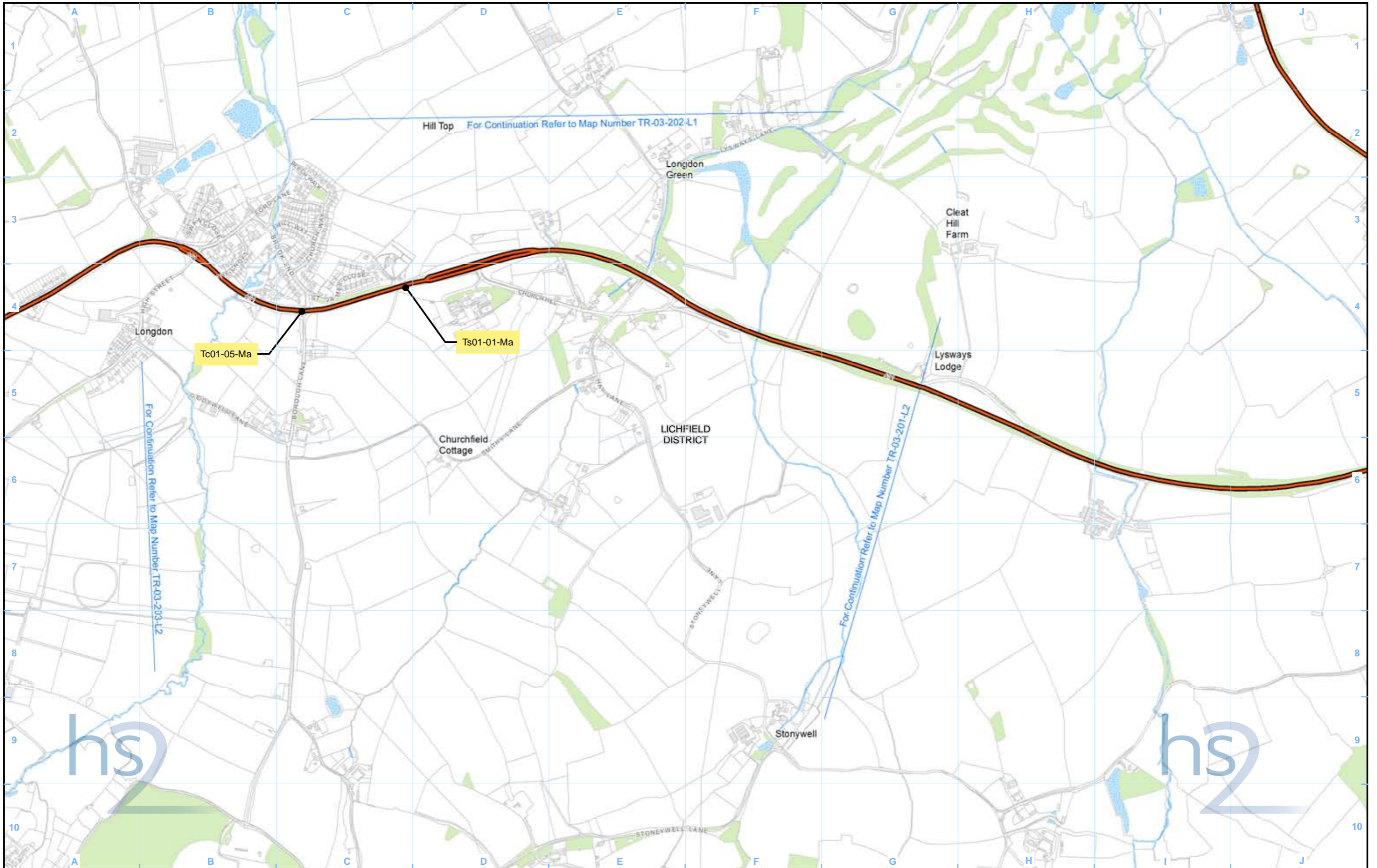
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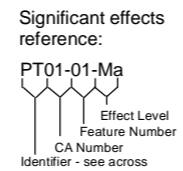
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Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-202-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1: Fradley to Colton

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Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: **TR-04-202-L2**

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: **Fradley to Colton**

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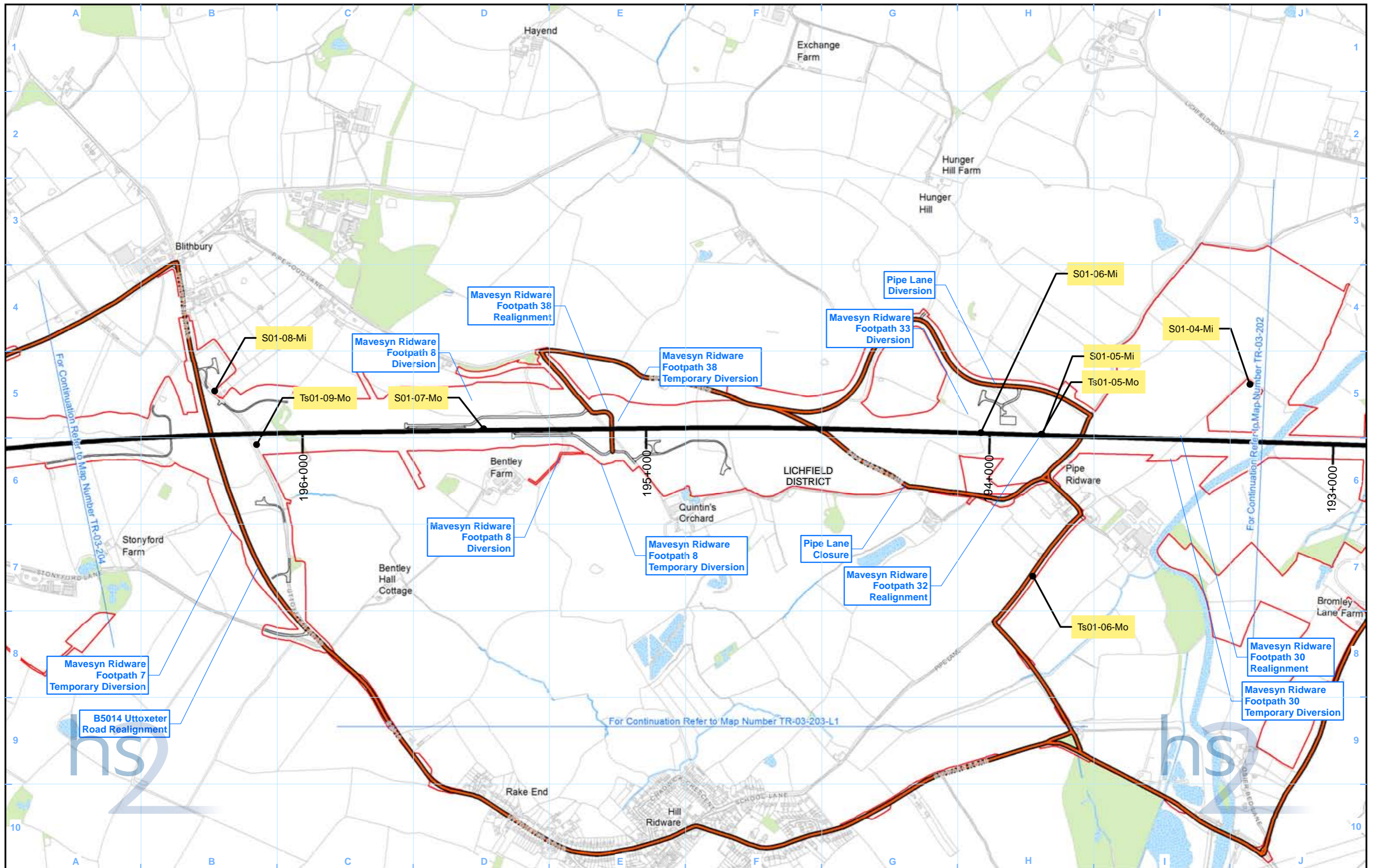
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-203

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1: Fradley to Colton

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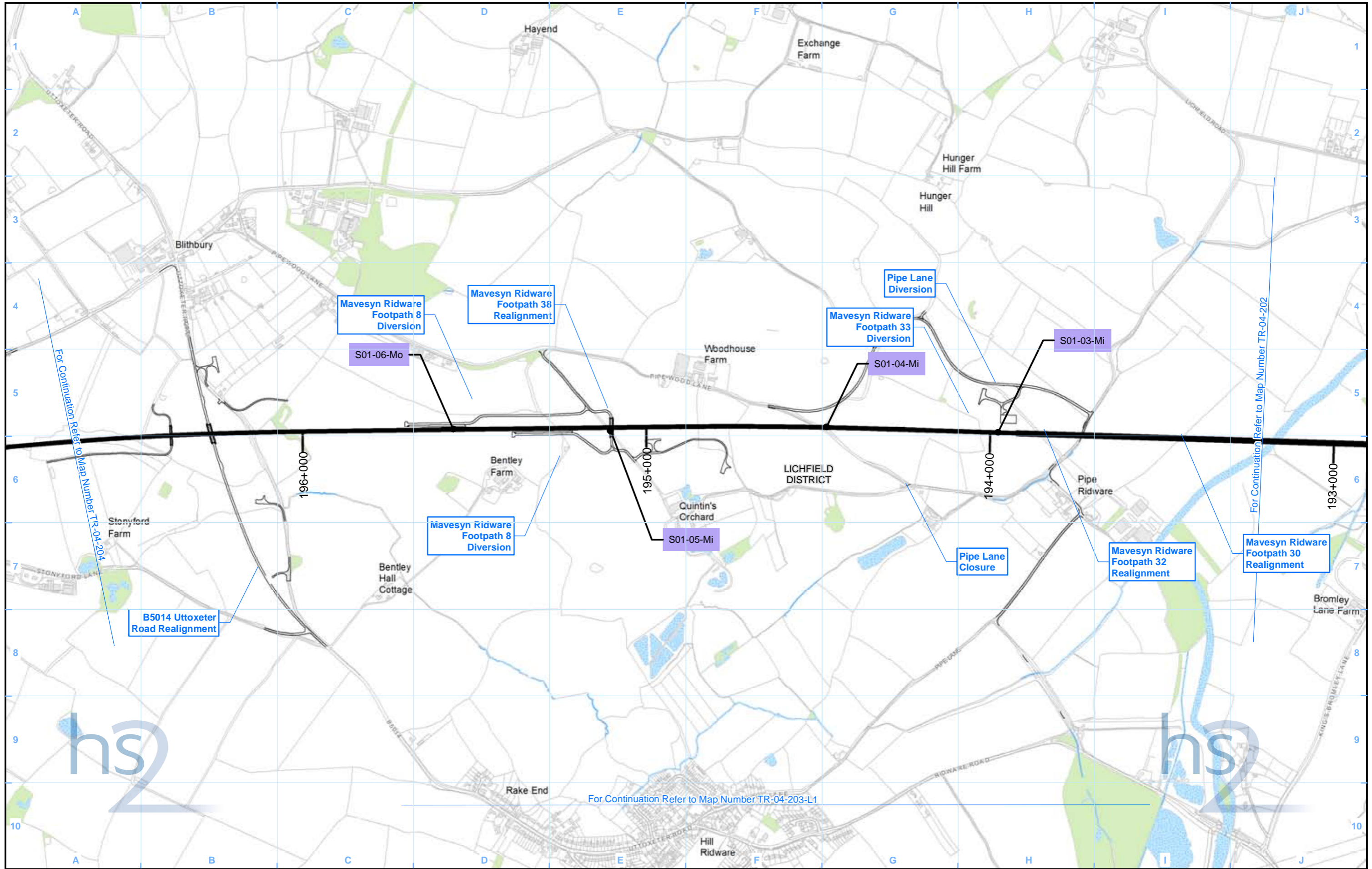
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Date: 14/06/17

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0 100 200 300 400 Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Operational Significant Effects: Adverse-permanent
- Operational Significant Effects: Adverse-temporary
- Operational Significant Effects: Beneficial-temporary
- Operational Significant Effects: Beneficial-permanent

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-203

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 1: Fradley to Colton

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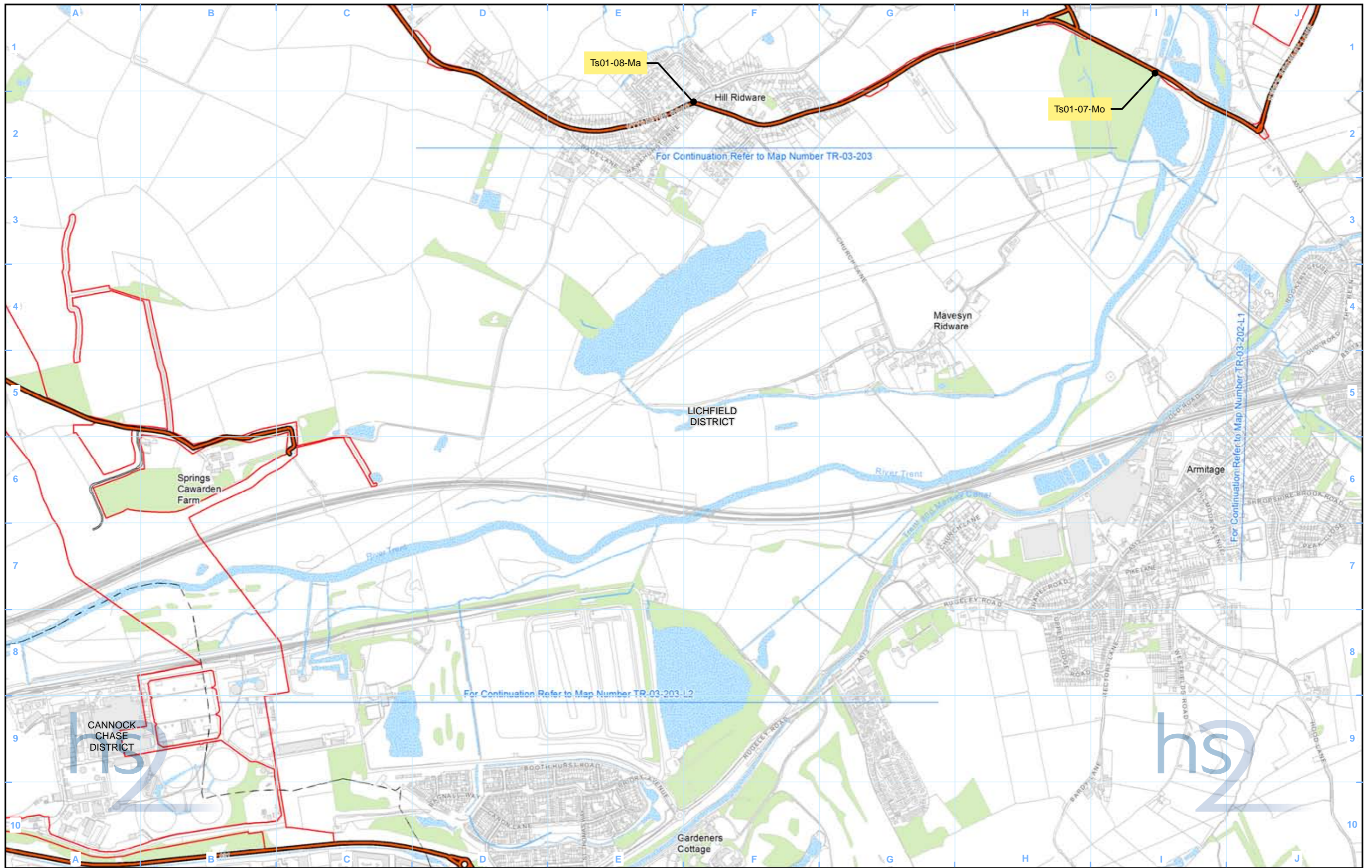
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-203-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1: Fradley to Colton

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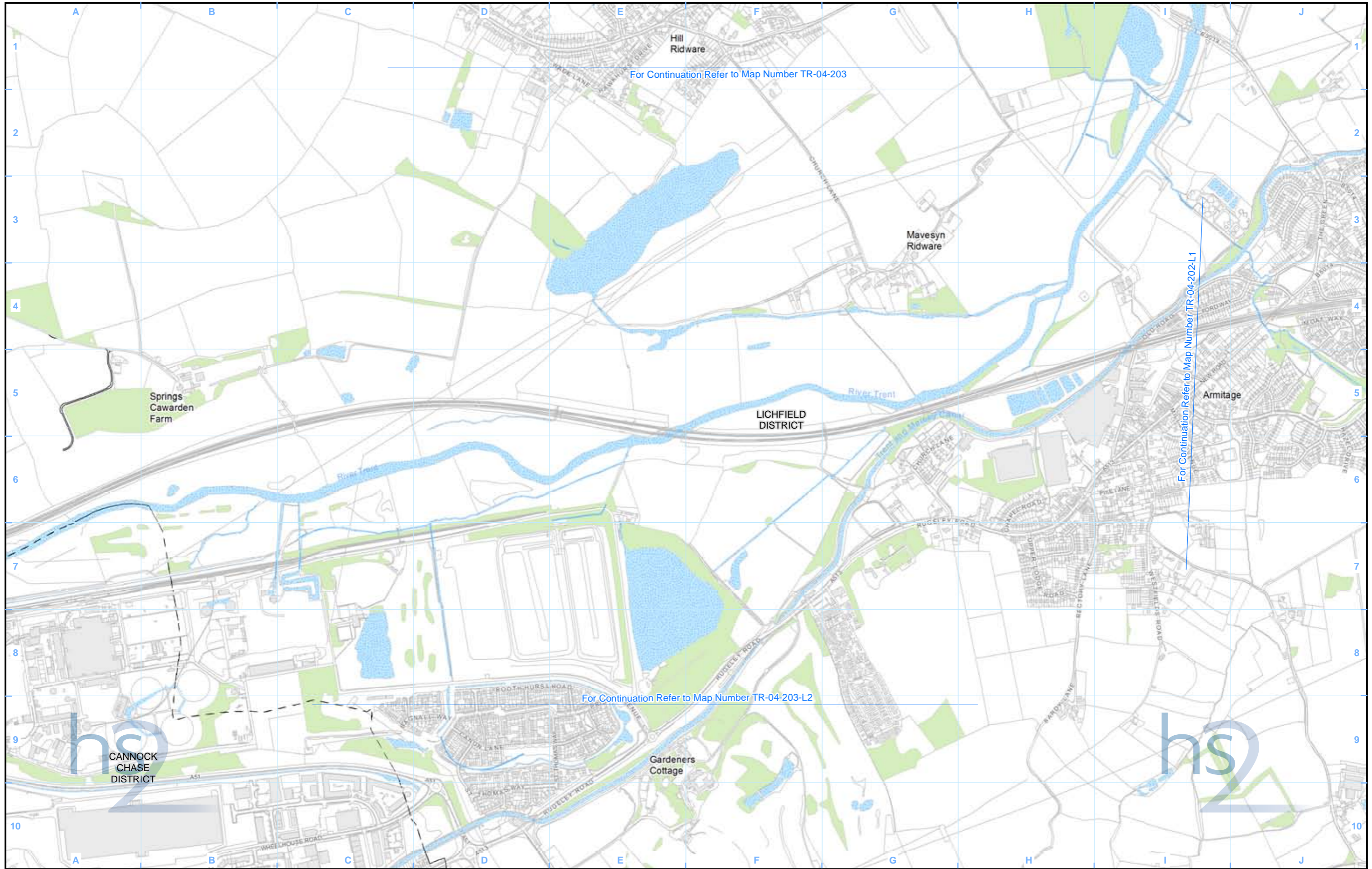
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Date: 14/06/17



For Continuation Refer to Map Number TR-04-203

For Continuation Refer to Map Number TR-04-203-L2

For Continuation Refer to Map Number TR-04-202-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-203-L1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 1: Fradley to Colton

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Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>CA Number</p> <p>Effect Level</p> <p>Feature Number</p> <p>Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number: TR-03-203-L2</p> <p>Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 1: Fradley to Colton</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-143303 P04</p> <p>Date: 14/06/17</p> <p>Scale at A3: 1:10,000</p> <p></p> <p></p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-203-L2

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: Fradley to Colton

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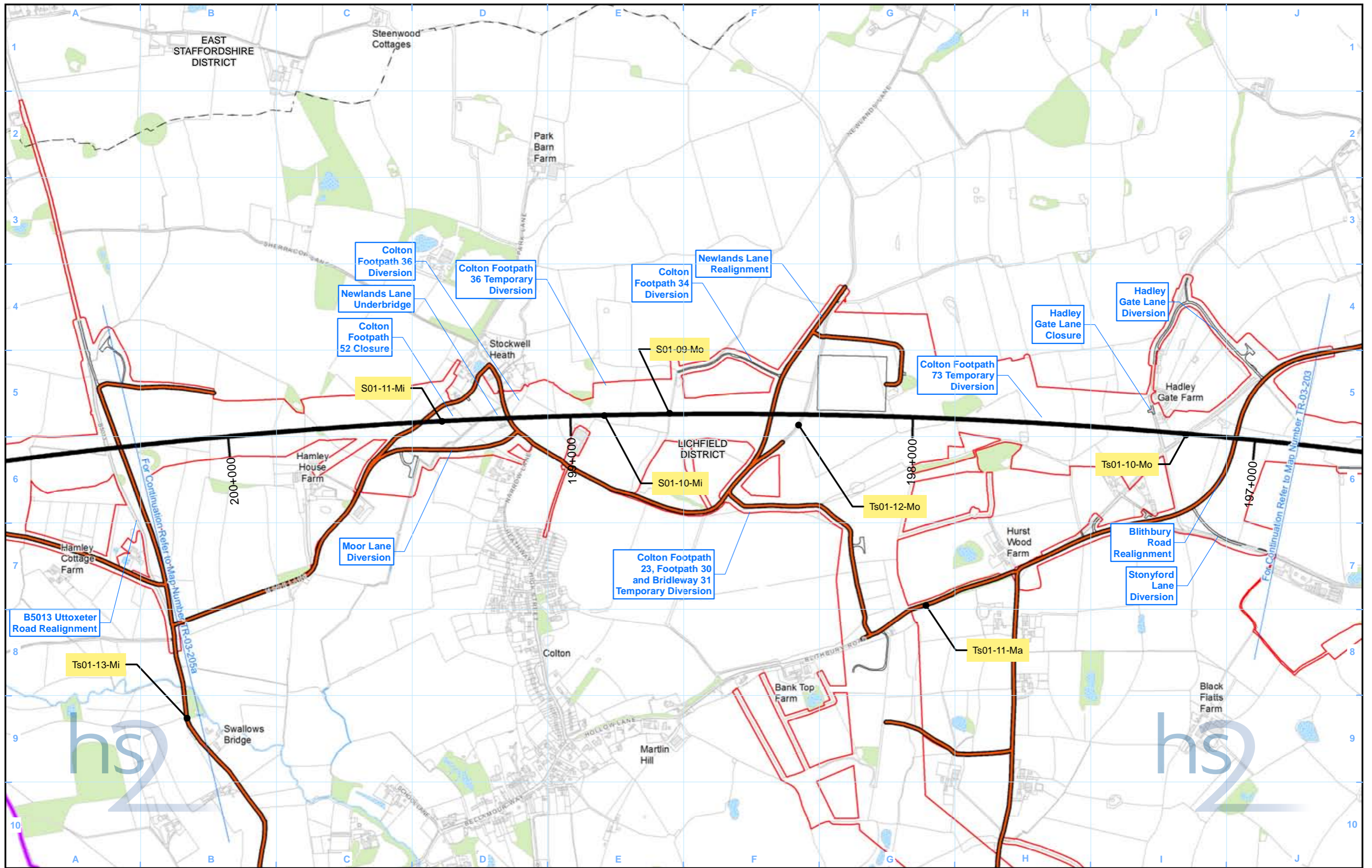
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Scale at A3: 1:10,000

0 100 200 300 400 Metres

Doc Number: C861-ARP-EV-MAP-000-144403 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number
TR-03-204

Map Name
Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1:
Fradley to Colton

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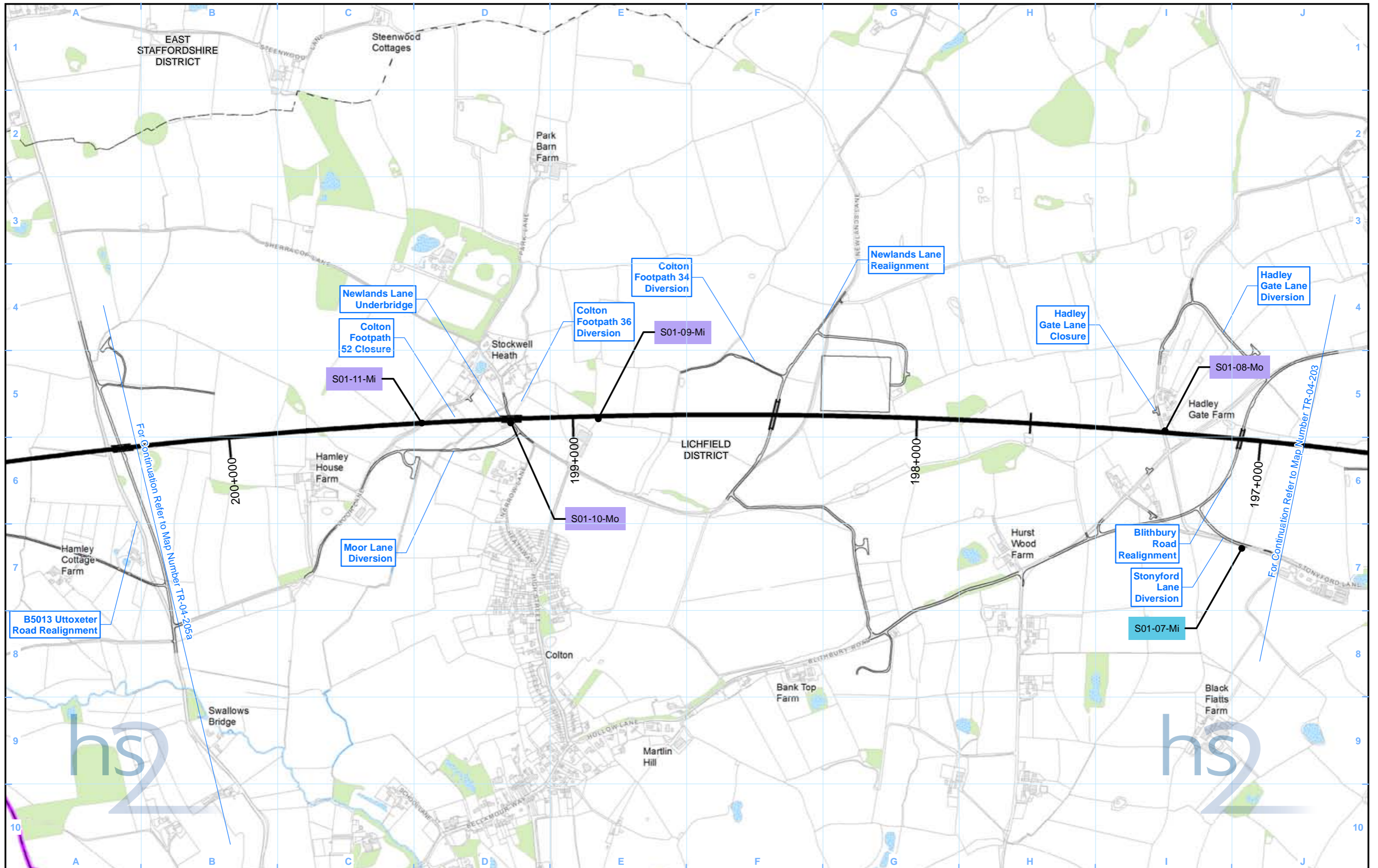
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Doc Number: C861-ARP-EV-MAP-000-143204 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-204

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 1: Fradley to Colton

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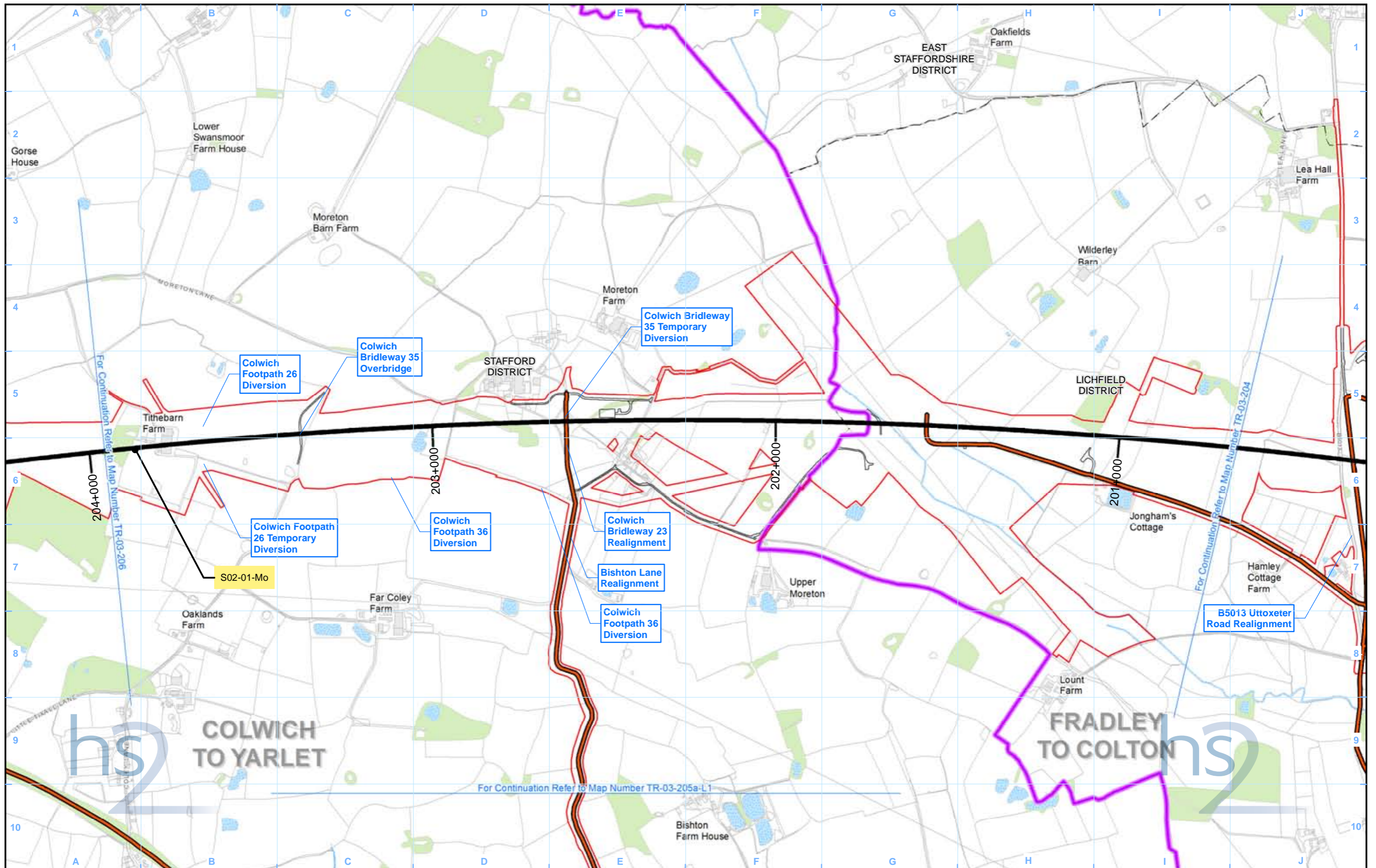
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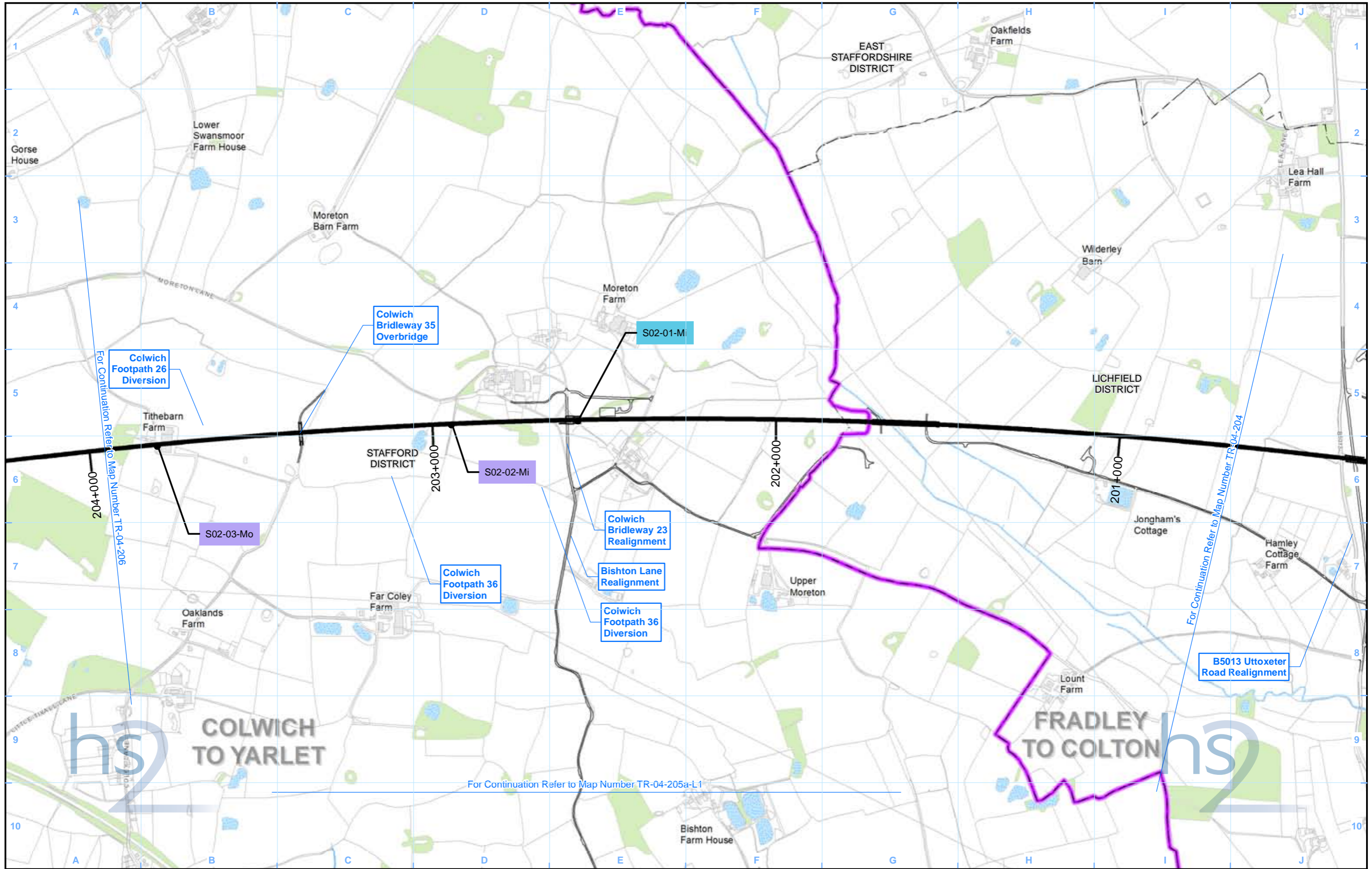
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Doc Number: C861-ARP-EV-MAP-000-144204 P04

Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-205a</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 1: Fradley to Colton</p>	<p>hs2</p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-143205 P04</p> <p>Date: 14/06/17</p> <p>Scale at A3: 1:10,000</p> <p>Metres</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-205a

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 1: Fradley to Colton

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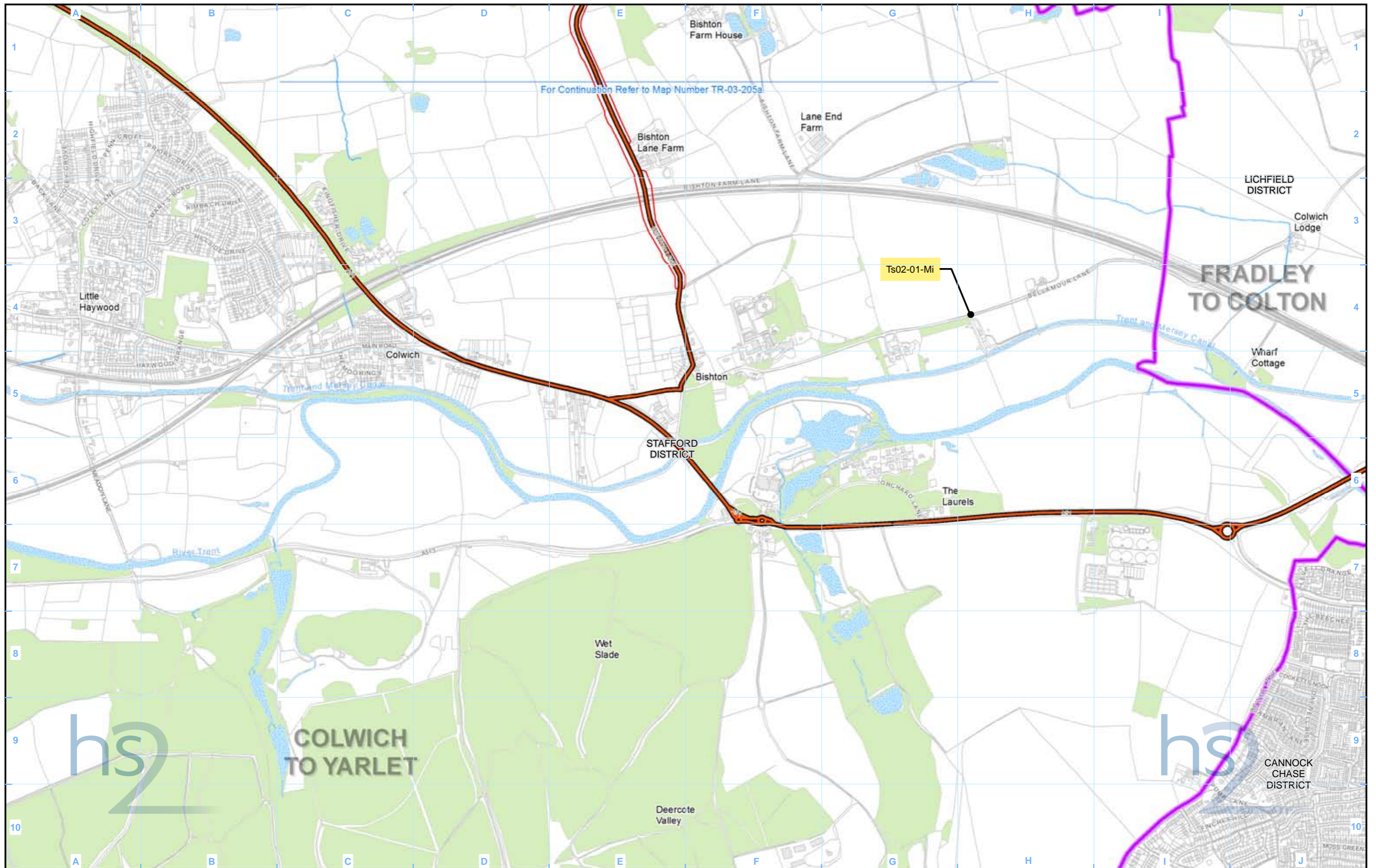
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-205a-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 1: Fradley to Colton

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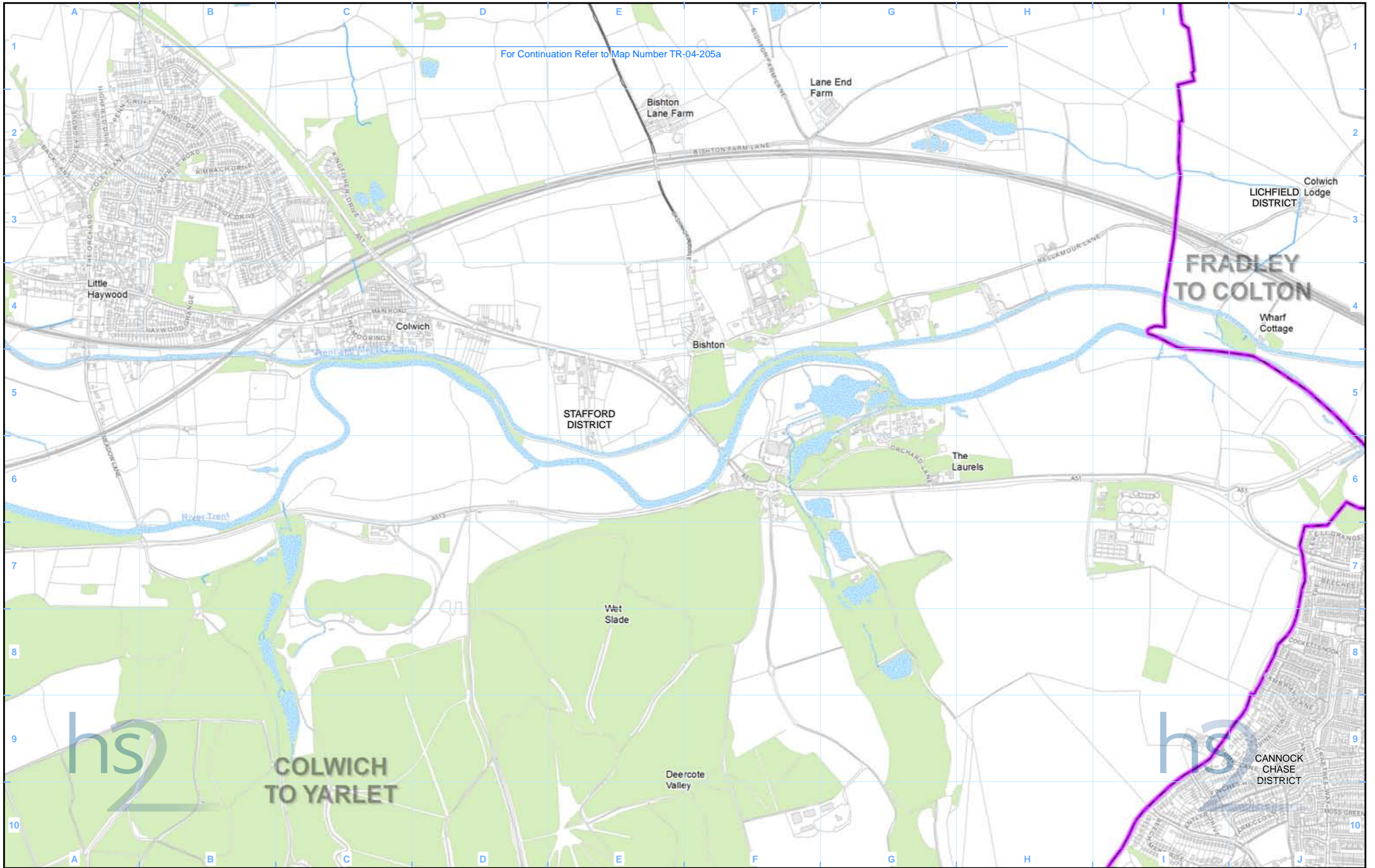
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Date: 14/06/17

For Continuation Refer to Map Number TR-04-205a



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-205a-L1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 1: Fradley to Colton

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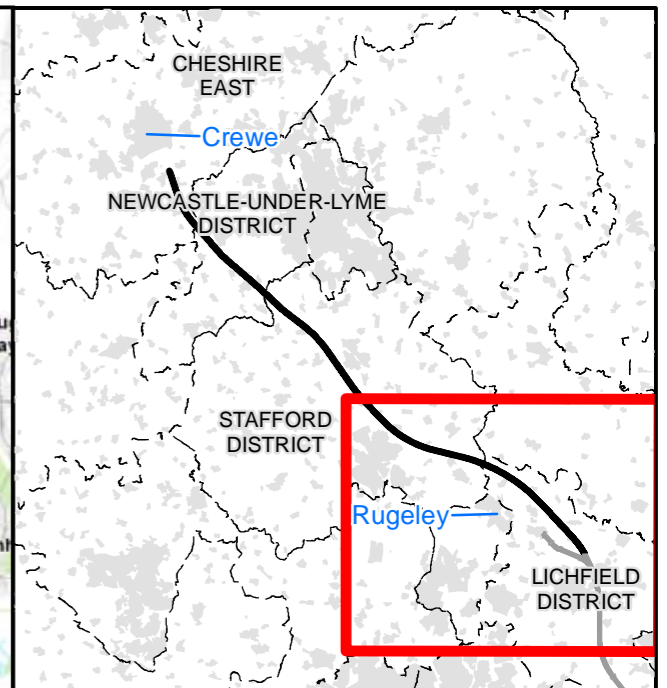
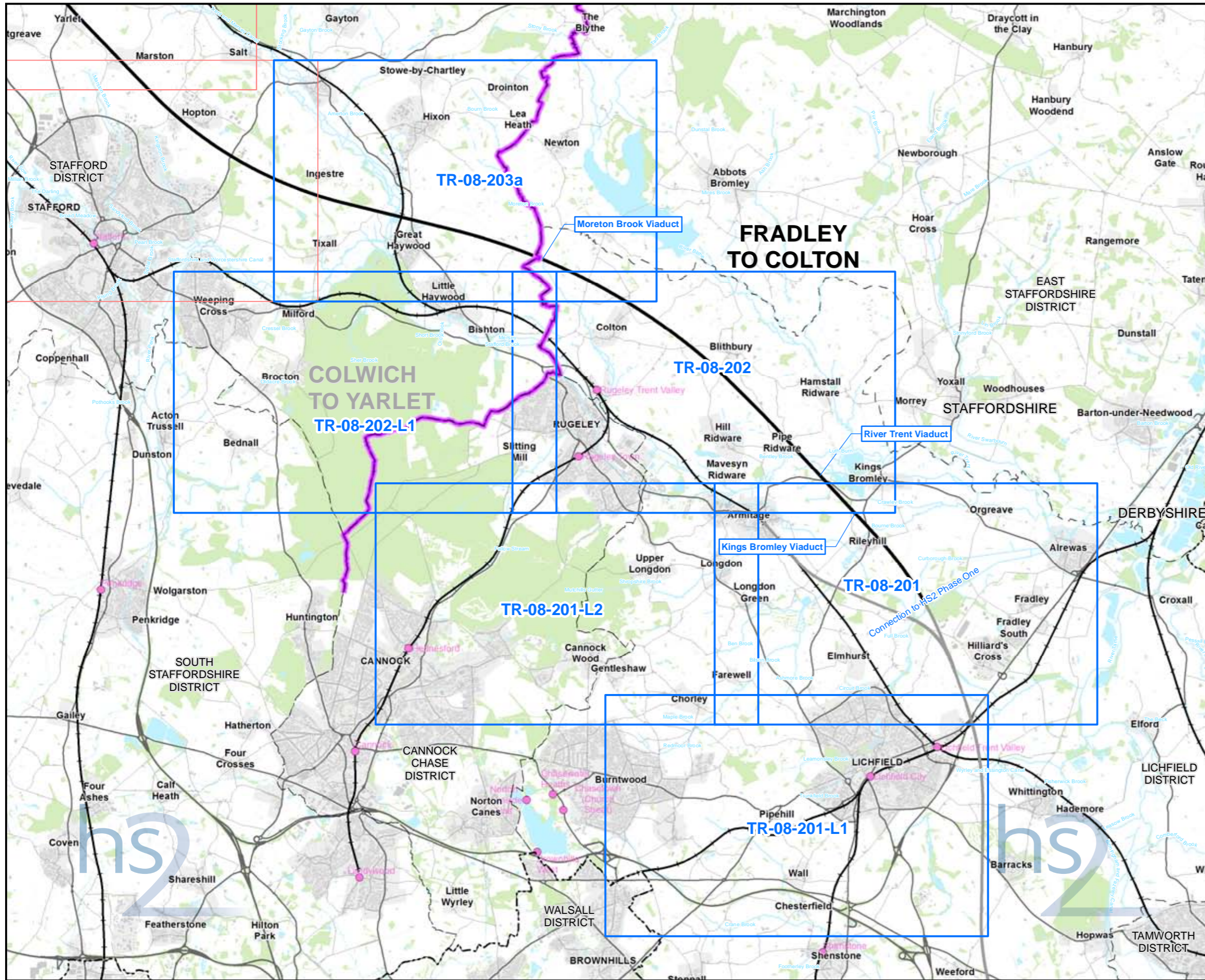
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Map Series Information:

This map series identifies the main construction access routes for construction compounds to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.

Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Community area boundary
Existing railway station	County boundary
District/Borough boundary	

Map Number	TR-08-INDEX-CA1
Map Name	Index Map of: Construction Routes to the Strategic Network
Community Area 1:	Fradley to Colton

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For Continuation Refer to TR-08-202

Bourne embankment satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	64-88
Peak daily vehicles-HGV	86-107

Pyford North embankment satellite compound		Civils
Start date	January 2021	
Duration of use	45	
Duration of busy movements	3	Rail
Peak daily vehicles-Cars & LGV	40-55	
Peak daily vehicles-HGV	99-111	
Start date	October 2024	
Duration of use	15	
Duration of busy movements	10	
Peak daily vehicles-Cars & LGV	57-84	
Peak daily vehicles-HGV	up to 10	

Bourne embankment transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	11
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	339-474

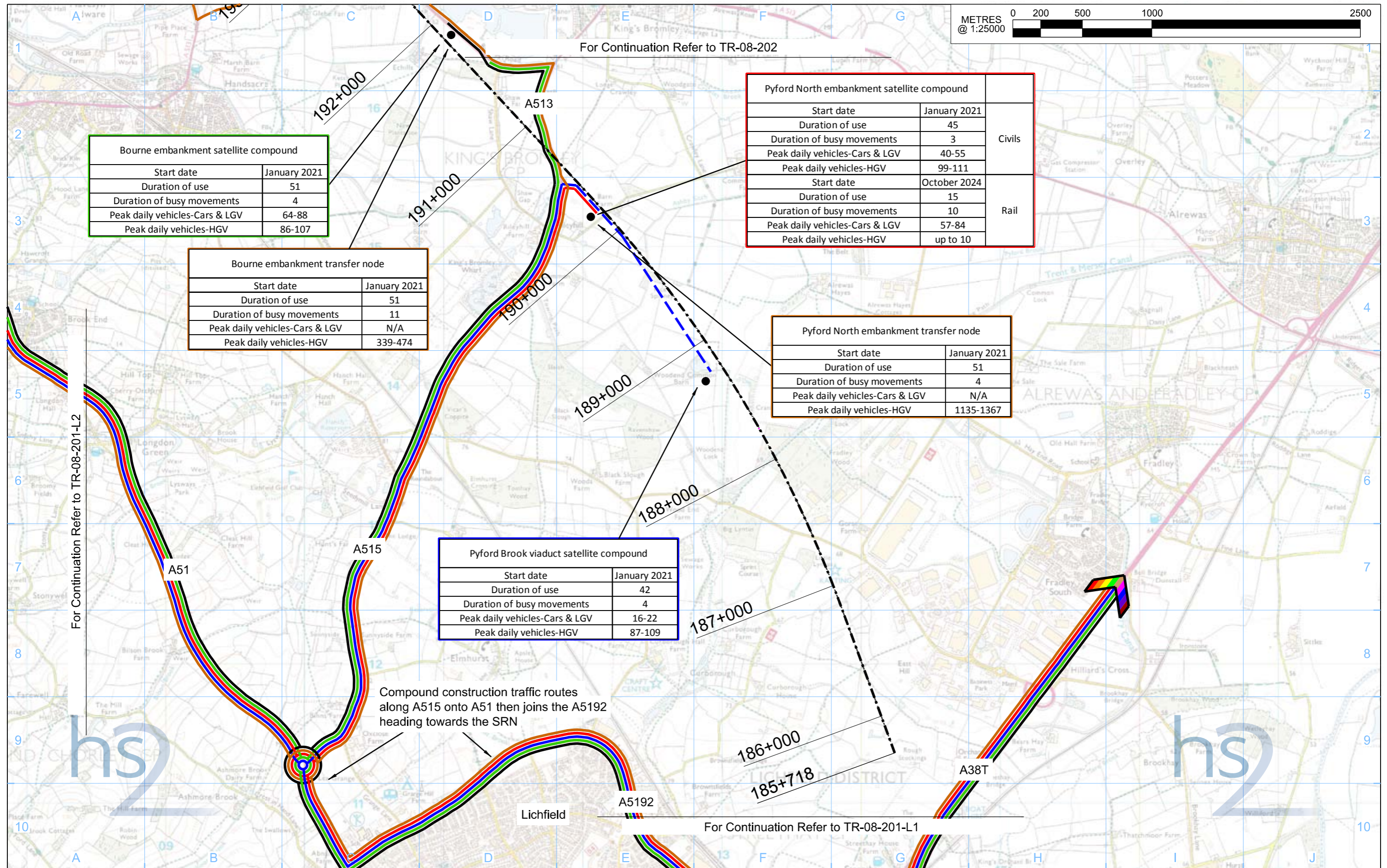
Pyford North embankment transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	1135-1367

Pyford Brook viaduct satellite compound	
Start date	January 2021
Duration of use	42
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	16-22
Peak daily vehicles-HGV	87-109

Compound construction traffic routes along A515 onto A51 then joins the A5192 heading towards the SRN

For Continuation Refer to TR-08-201-L2

For Continuation Refer to TR-08-201-L1



Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-201

Map Name
Construction Routes to the Strategic Network

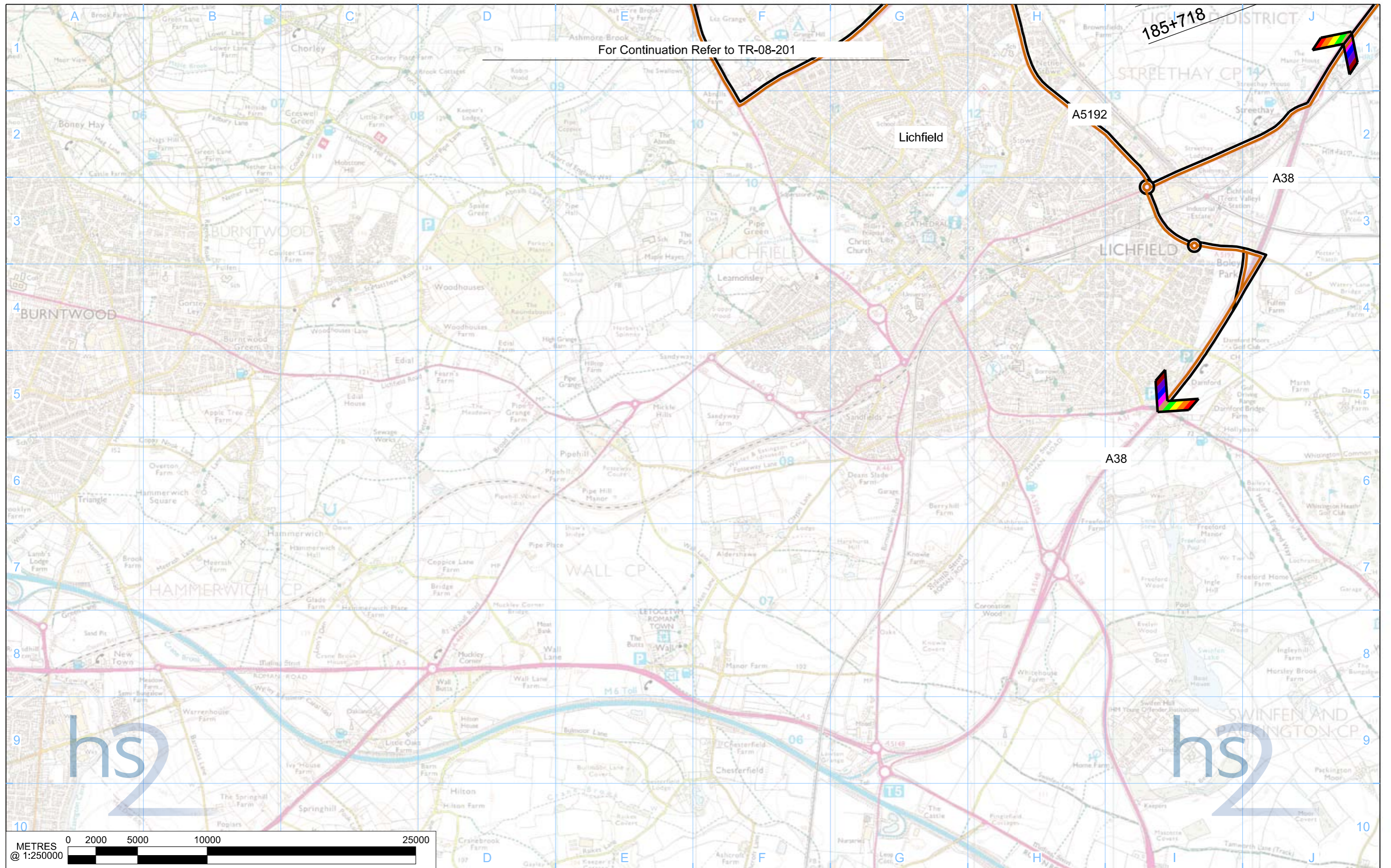
Community Area
CA1 Fradley to Colton

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For Continuation Refer to TR-08-201

185+718

Lichfield

A5192

A38

LICHFIELD

A38

WALL CP

LETOCEYH ROMAN TOWN

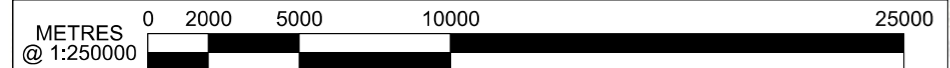
M5 Toll

06

A5148

A5148


SWINFEN AND WINGTON CP



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number	TR-08-201-L1
Map Name	Construction Routes to the Strategic Network
Community Area	CA1 Fradley to Colton




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For Continuation Refer to TR-08-202

A460

A51

For Continuation Refer to TR-08-201

Cannock



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number	TR-08-201-L2
Map Name	Construction Routes to the Strategic Network
Community Area	CA1 Fradley to Colton

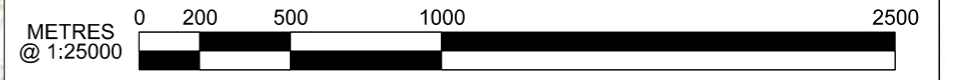
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P01 Date: 16/06/17



For Continuation Refer to TR-08-203

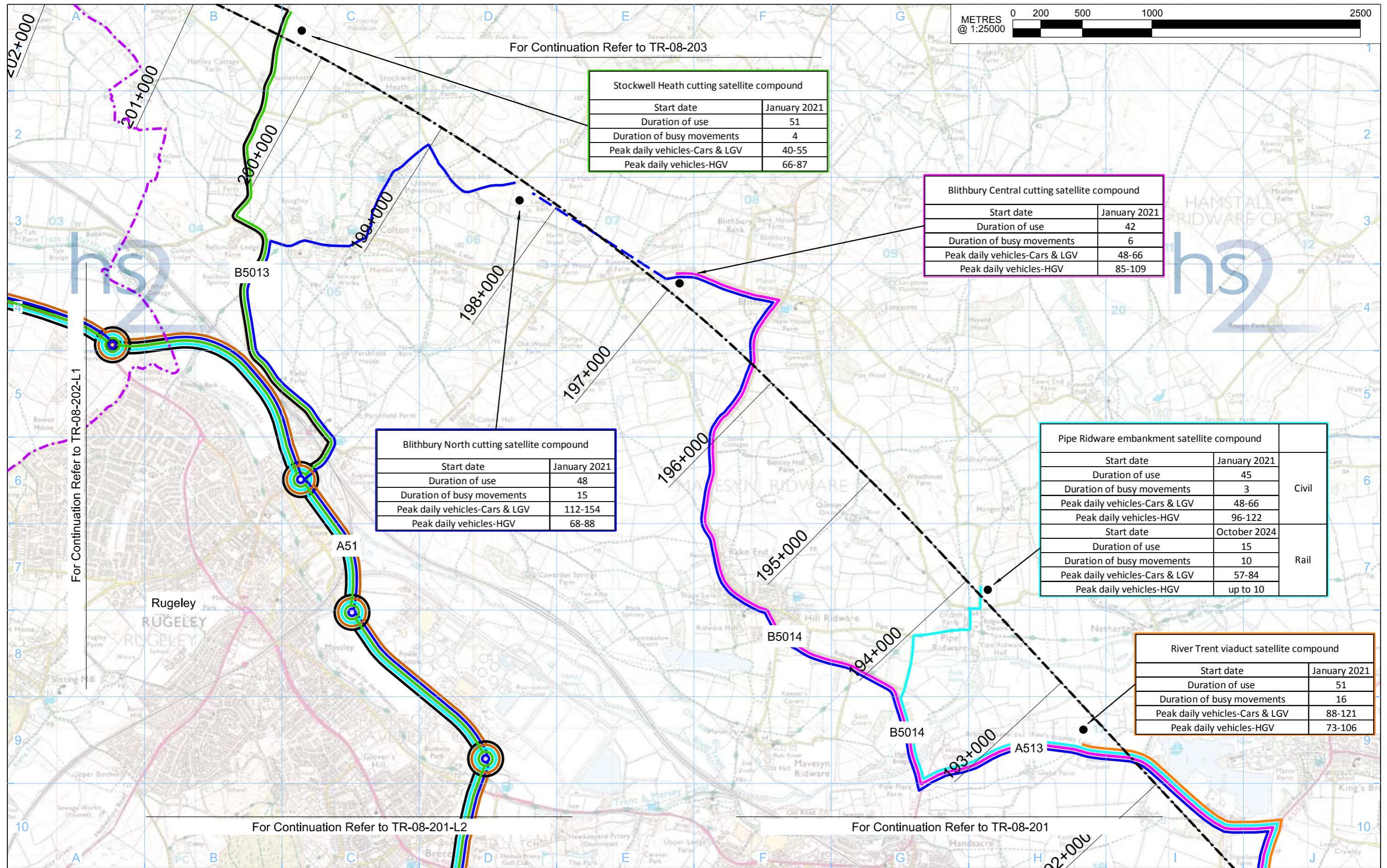
Stockwell Heath cutting satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	40-55
Peak daily vehicles-HGV	66-87

Blithbury Central cutting satellite compound	
Start date	January 2021
Duration of use	42
Duration of busy movements	6
Peak daily vehicles-Cars & LGV	48-66
Peak daily vehicles-HGV	85-109

Blithbury North cutting satellite compound	
Start date	January 2021
Duration of use	48
Duration of busy movements	15
Peak daily vehicles-Cars & LGV	112-154
Peak daily vehicles-HGV	68-88

Pipe Ridware embankment satellite compound		
Start date	January 2021	Civil
Duration of use	45	
Duration of busy movements	3	
Peak daily vehicles-Cars & LGV	48-66	
Peak daily vehicles-HGV	96-122	Rail
Start date	October 2024	
Duration of use	15	
Duration of busy movements	10	
Peak daily vehicles-Cars & LGV	57-84	
Peak daily vehicles-HGV	up to 10	

River Trent viaduct satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	16
Peak daily vehicles-Cars & LGV	88-121
Peak daily vehicles-HGV	73-106



For Continuation Refer to TR-08-202-L1

For Continuation Refer to TR-08-201-L2

For Continuation Refer to TR-08-201

Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-202

Map Name
Construction Routes to the Strategic Network

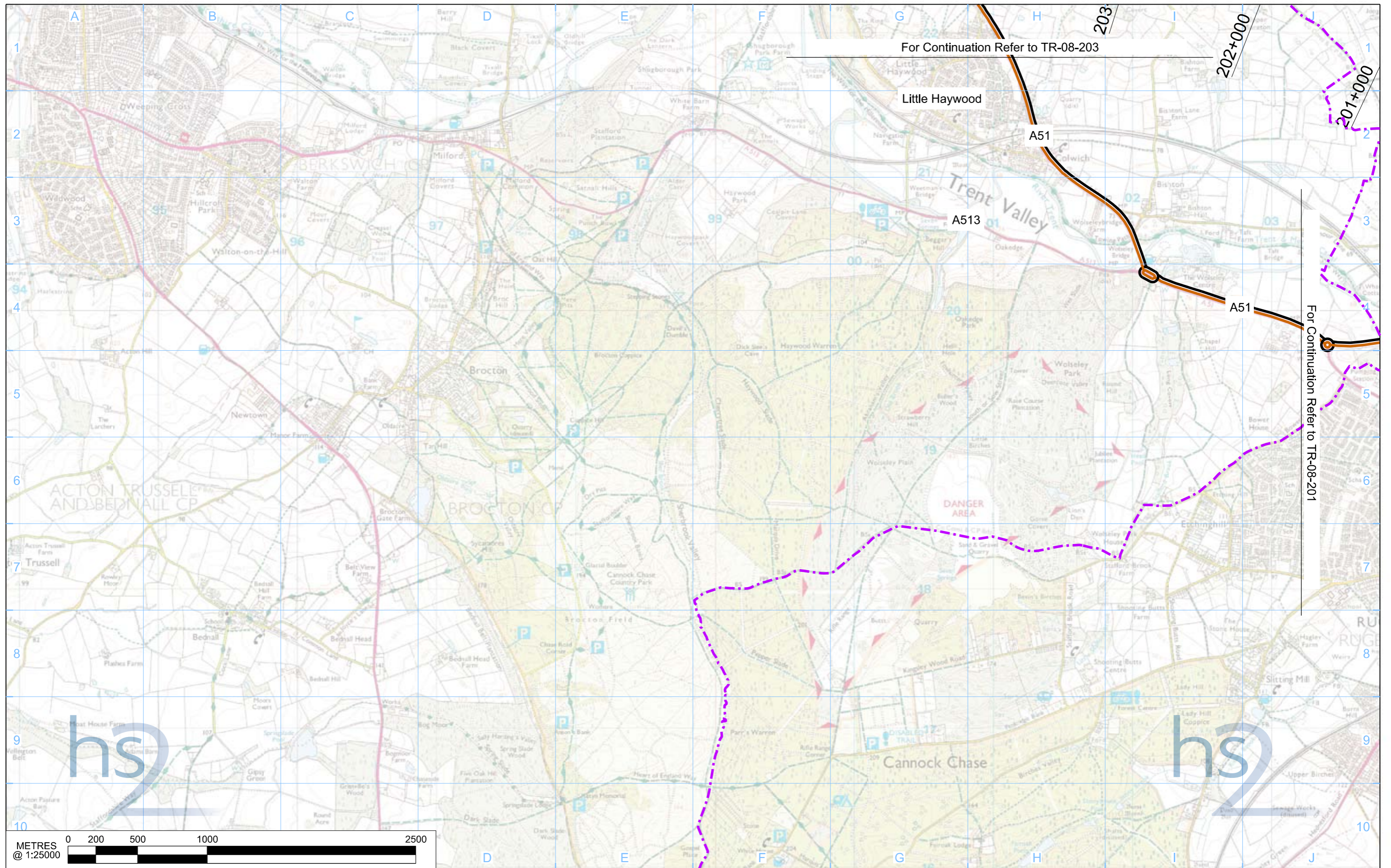
Community Area
CA1 Fradley to Colton

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For Continuation Refer to TR-08-203

Little Haywood

A51

A513

A51

For Continuation Refer to TR-08-201



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number	TR-08-202-L1
Map Name	Construction Routes to the Strategic Network
Community Area	CA2 Colwich to Yarlet

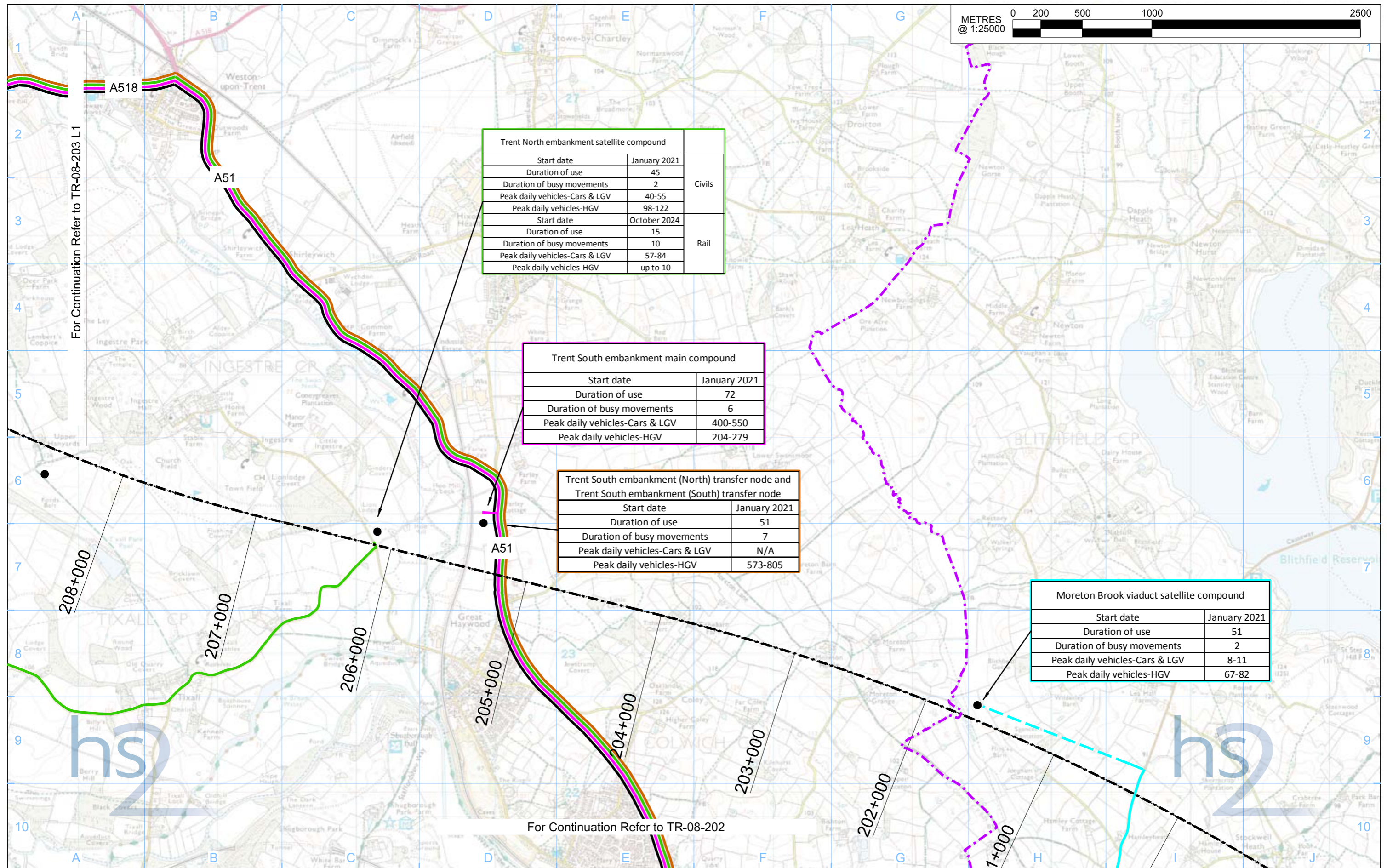
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Doc Number: C861-ARP-TM-DLO-000-200102

P01 Date: 16/06/17



Trent North embankment satellite compound		Civils
Start date	January 2021	
Duration of use	45	
Duration of busy movements	2	
Peak daily vehicles-Cars & LGV	40-55	
Peak daily vehicles-HGV	98-122	
Start date	October 2024	Rail
Duration of use	15	
Duration of busy movements	10	
Peak daily vehicles-Cars & LGV	57-84	
Peak daily vehicles-HGV	up to 10	

Trent South embankment main compound	
Start date	January 2021
Duration of use	72
Duration of busy movements	6
Peak daily vehicles-Cars & LGV	400-550
Peak daily vehicles-HGV	204-279

Trent South embankment (North) transfer node and Trent South embankment (South) transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	7
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	573-805

Moreton Brook viaduct satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	8-11
Peak daily vehicles-HGV	67-82

For Continuation Refer to TR-08-203 L1

For Continuation Refer to TR-08-202

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: **TR-08-203a**

Map Name: **Construction Routes to the Strategic Network**

Community Area: **CA1 Fradley to Colton**

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Doc Number: C861-ARP-TM-DLO-000-200003 P02 Date: 16/06/17

High Speed Rail (West Midlands-Crewe)

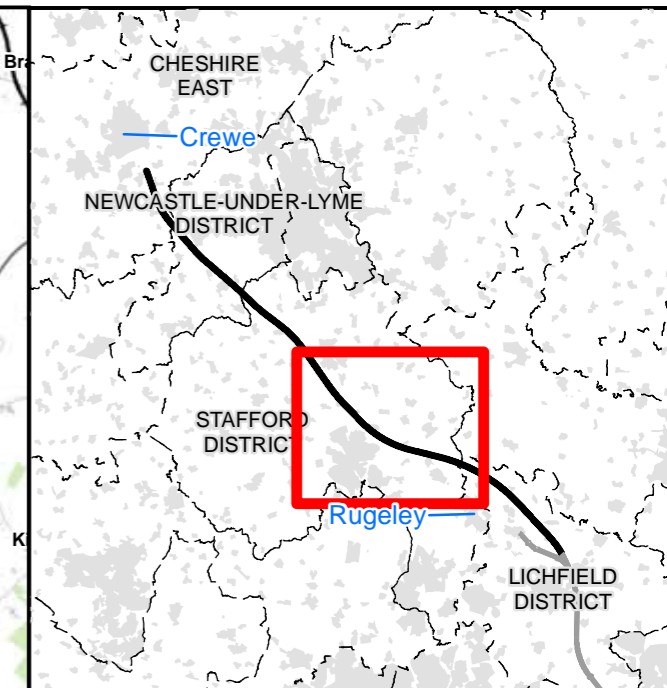
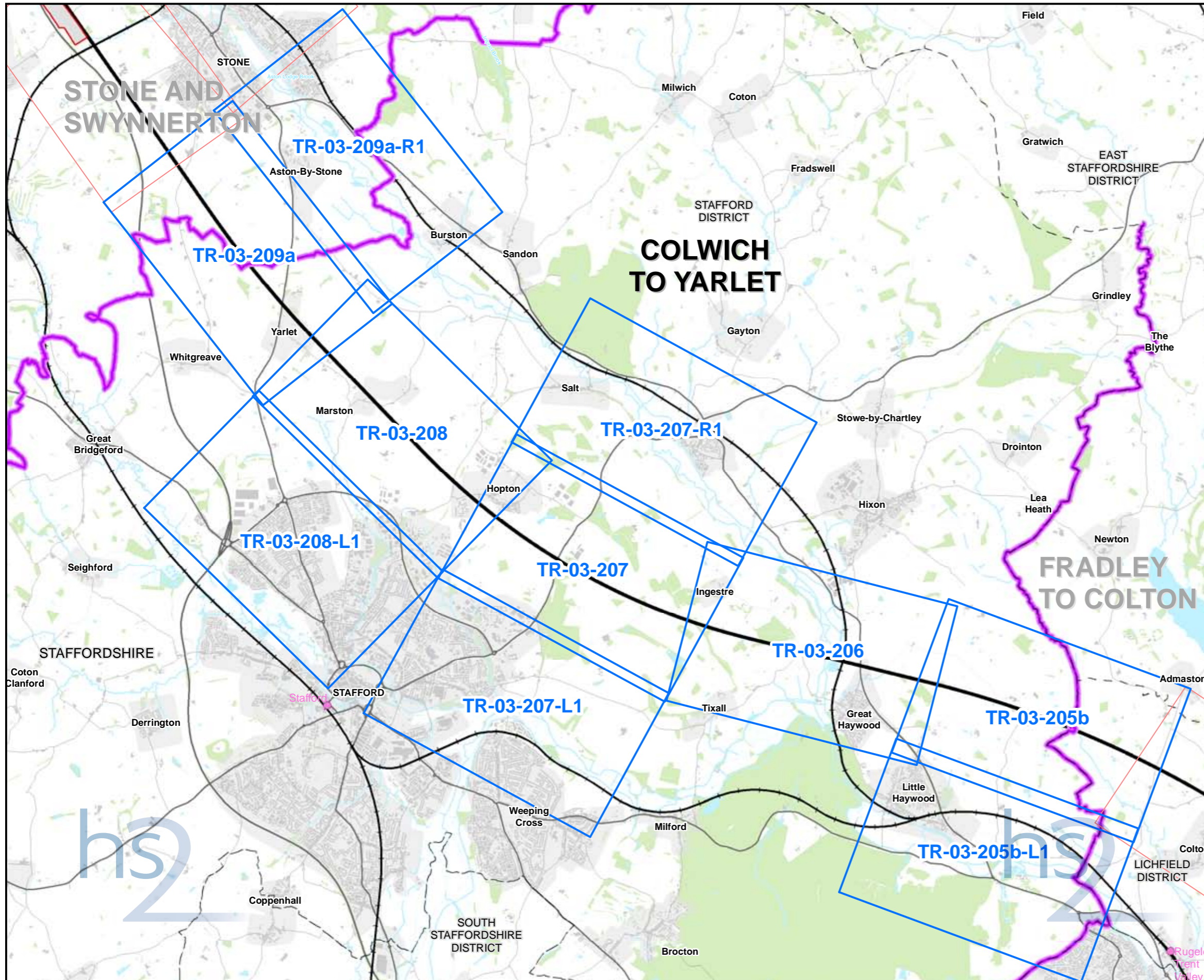
Environmental Statement

CA2 Colwich to Yarlet

**TR-03 - Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes**

TR-04 - Significant Residual Transport Effects Arising from Operation

TR-08 - Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Community area boundary
Existing railway station	County boundary
District/Borough boundary	

Map Number	TR-03-INDEX-CA2
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes
Community Area 2: Colwich to Yarlet	

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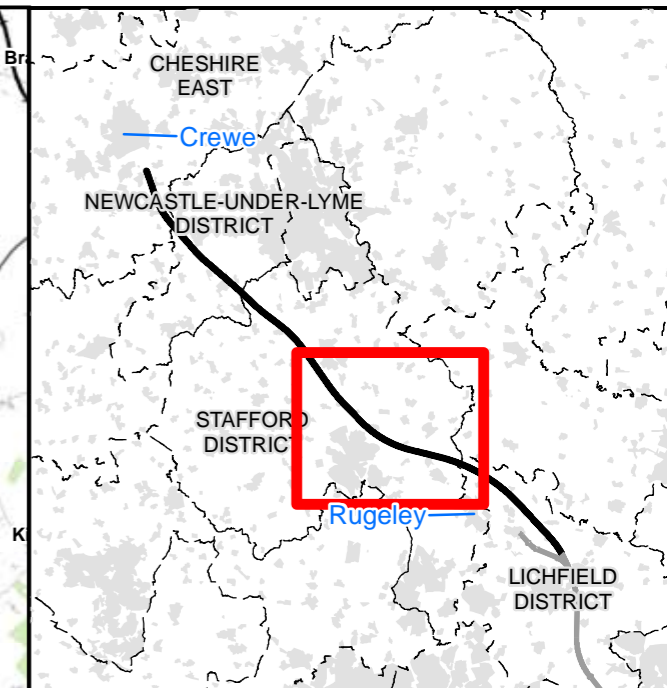
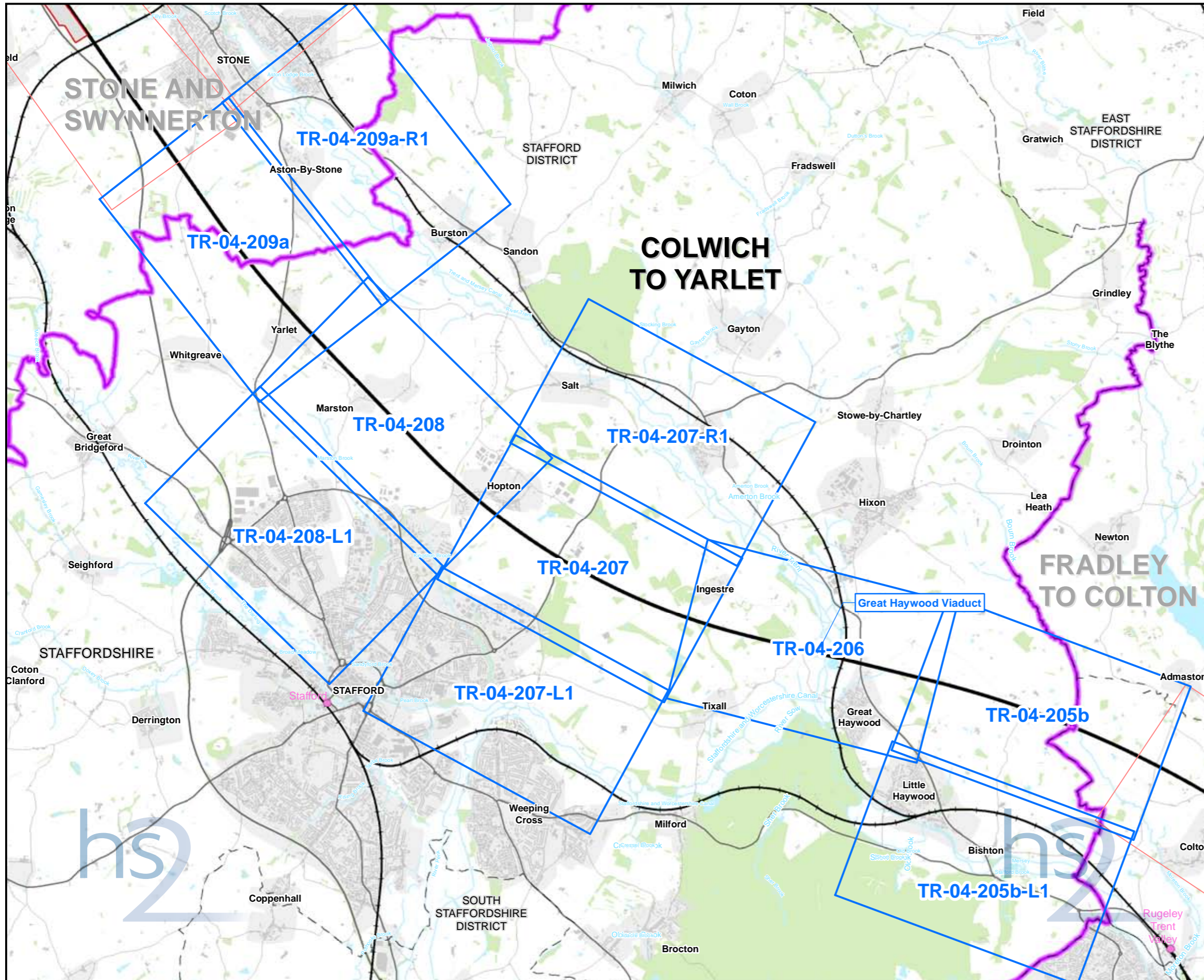
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Doc Number: C861-ARP-EV-MAP-000-143002 - P04

Date: 13/06/17



Map Series Information:

Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).

Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Community area boundary
Existing railway station	County boundary
District/Borough boundary	

Map Number	TR-04-INDEX-CA2
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation
Community Area 2: Colwich to Yarlet	

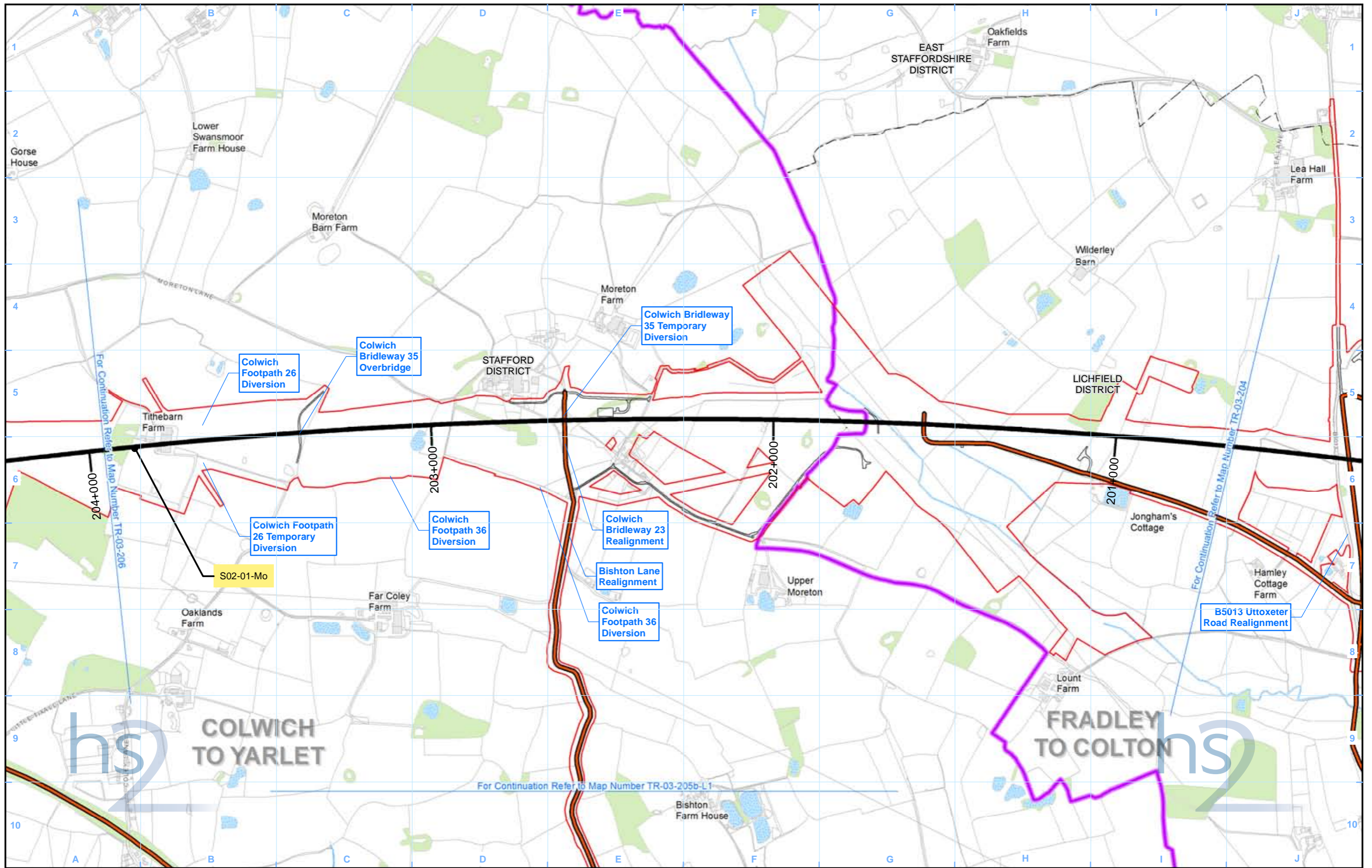
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Doc Number: C861-ARP-EV-MAP-000-144002 - P04 **Date: 14/06/17**



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-205b

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 2:
Colwich to Yarlet

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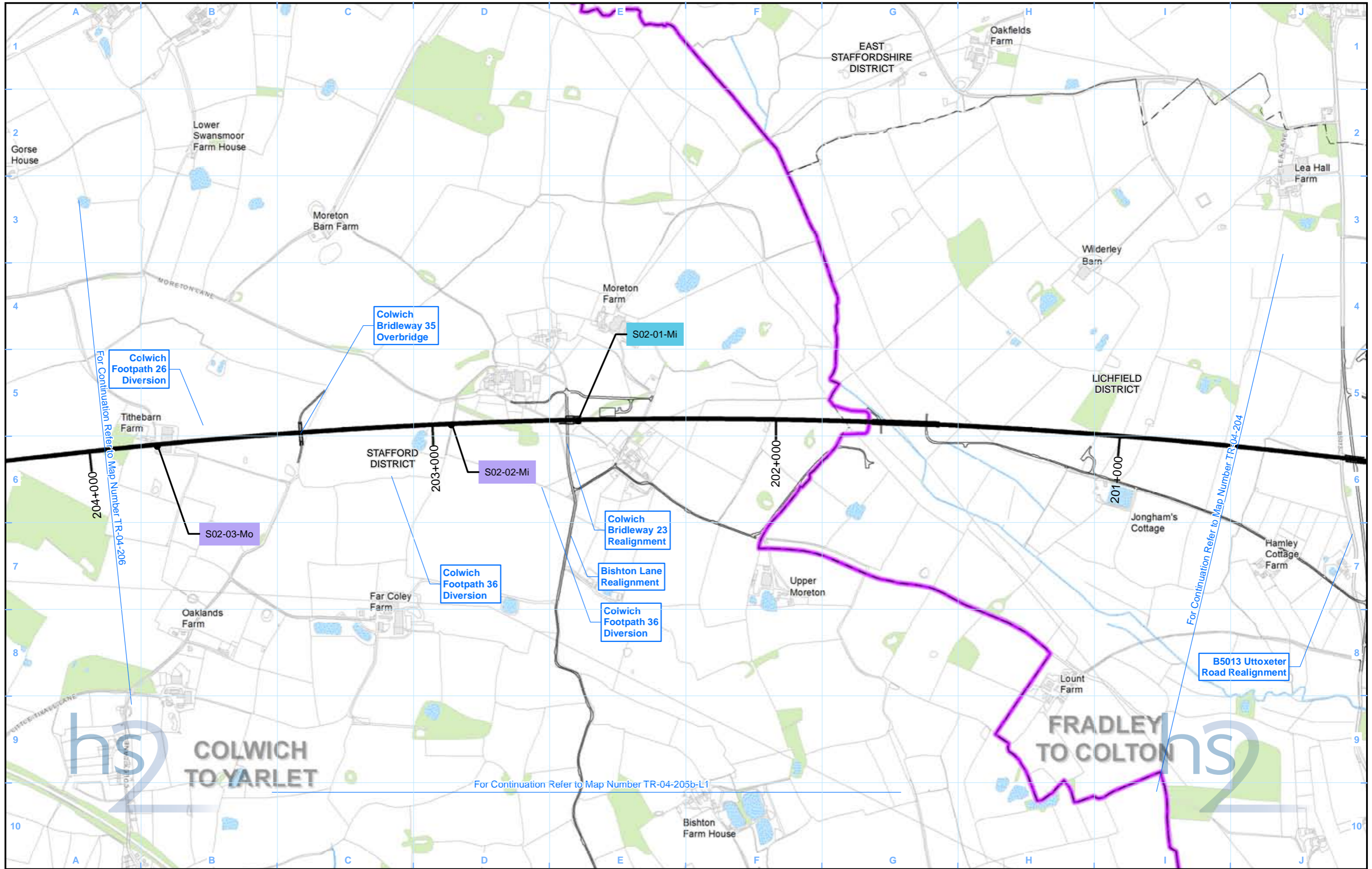
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Doc Number: C861-ARP-EV-MAP-000-143505 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-205b

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

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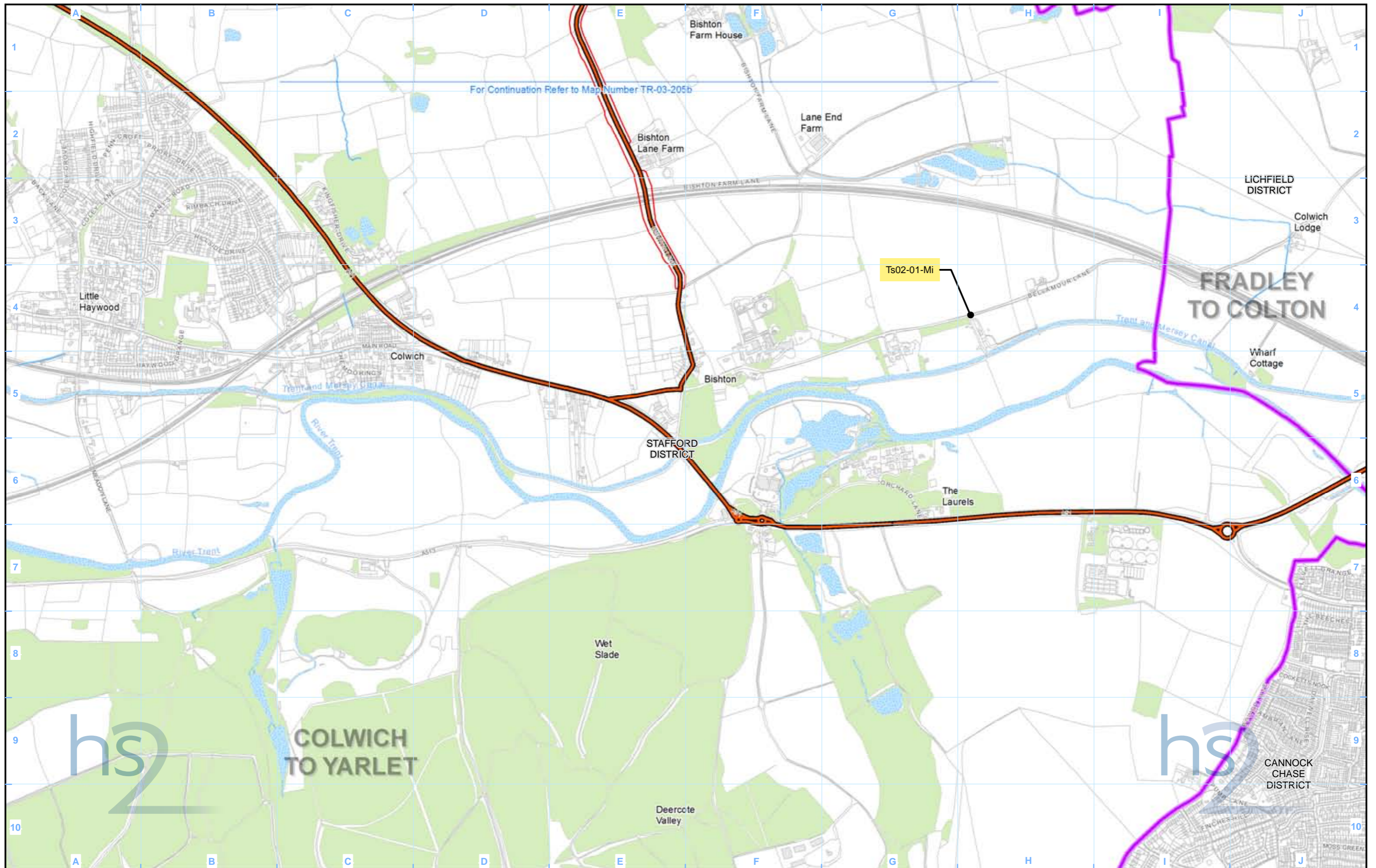
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Doc Number: C861-ARP-EV-MAP-000-144505 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-205b-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2: Colwich to Yarlet

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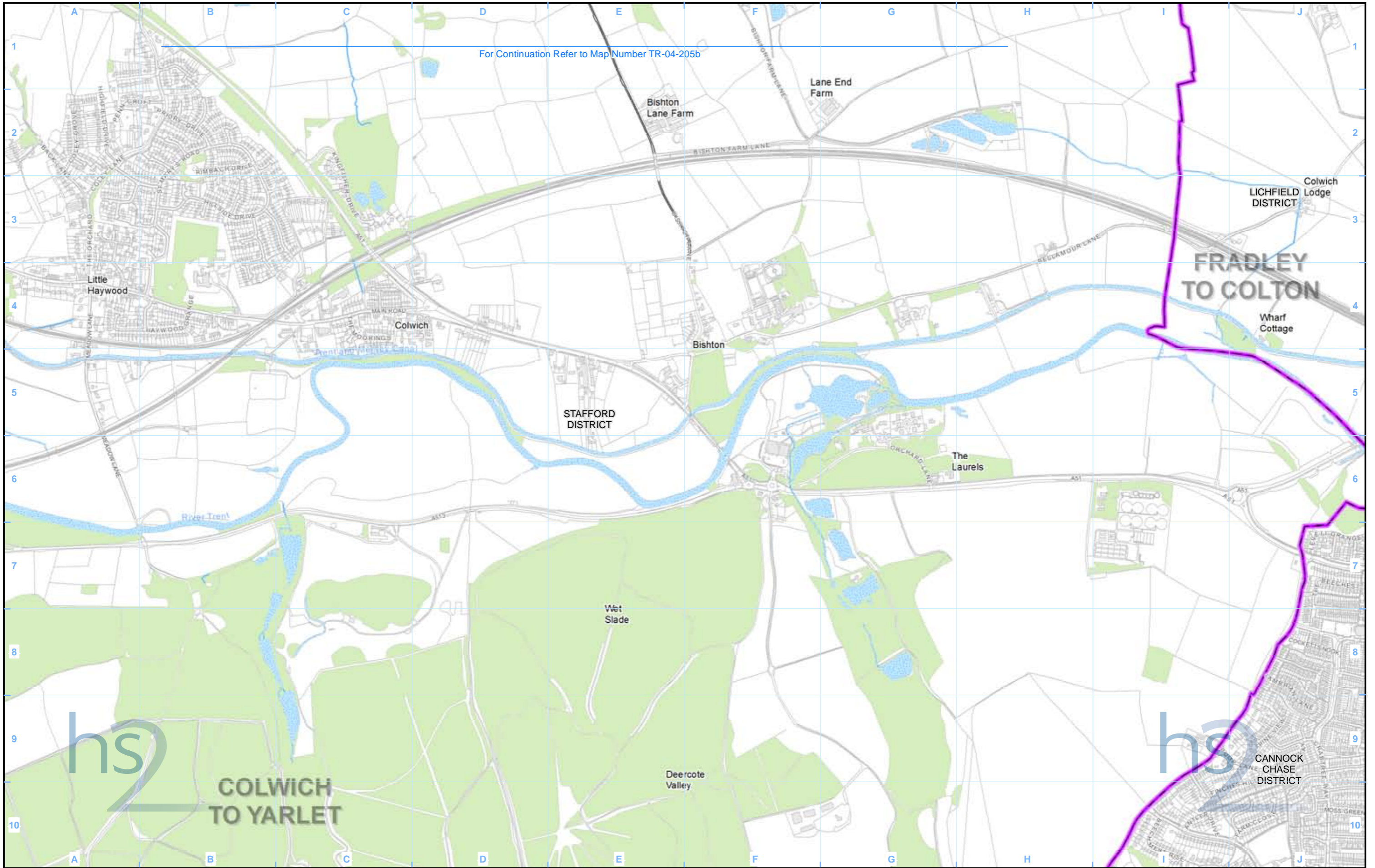
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Date: 14/06/17

For Continuation Refer to Map Number TR-04-205b



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Operational Significant Effects
- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-205b-L1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

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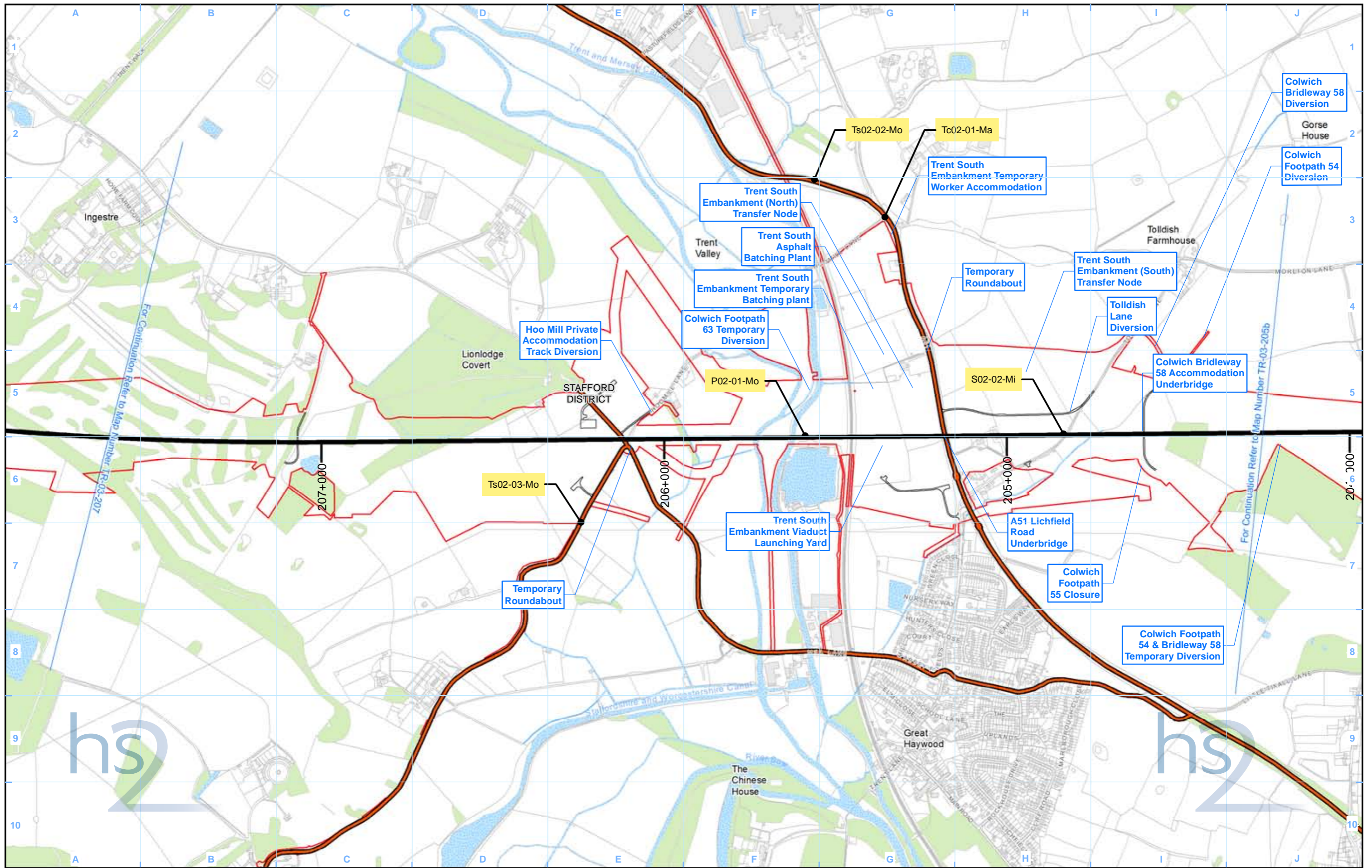
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delays
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number
TR-03-206

Map Name
Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2:
Colwich to Yarlet

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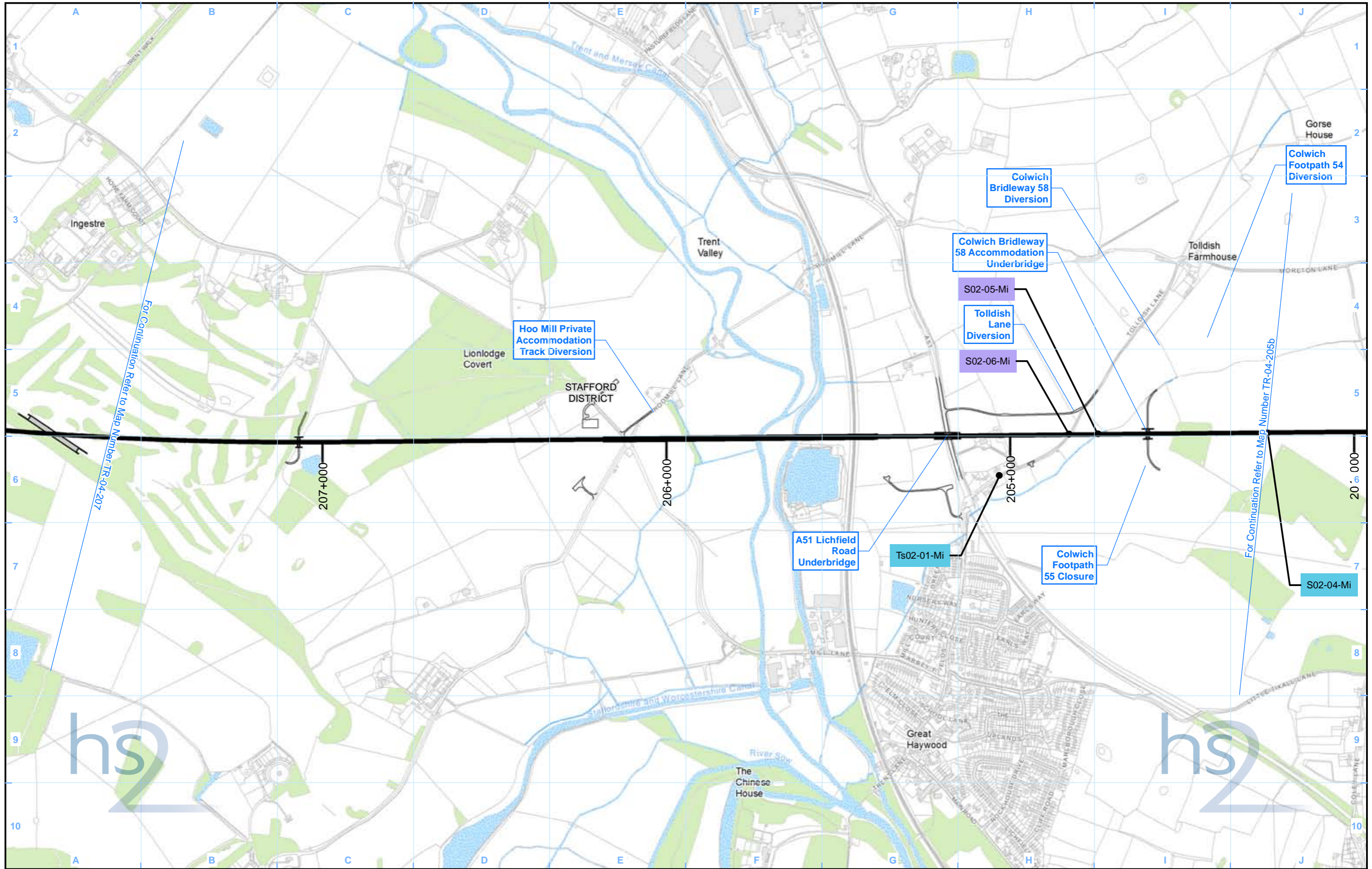
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Doc Number: C861-ARP-EV-MAP-000-143206 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-206

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

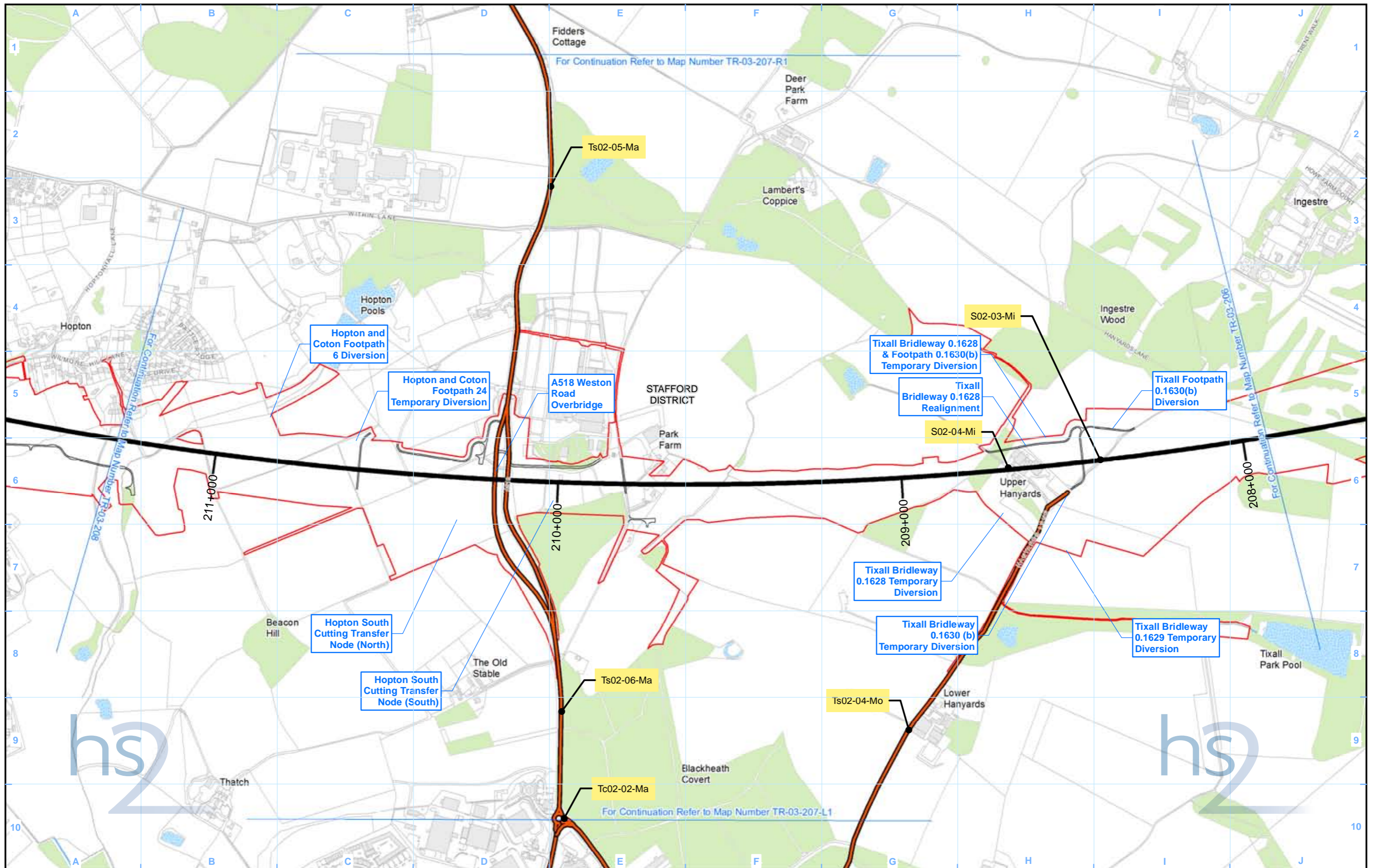
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Doc Number: C861-ARP-EV-MAP-000-144206 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-207

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2: Colwich to Yarlet

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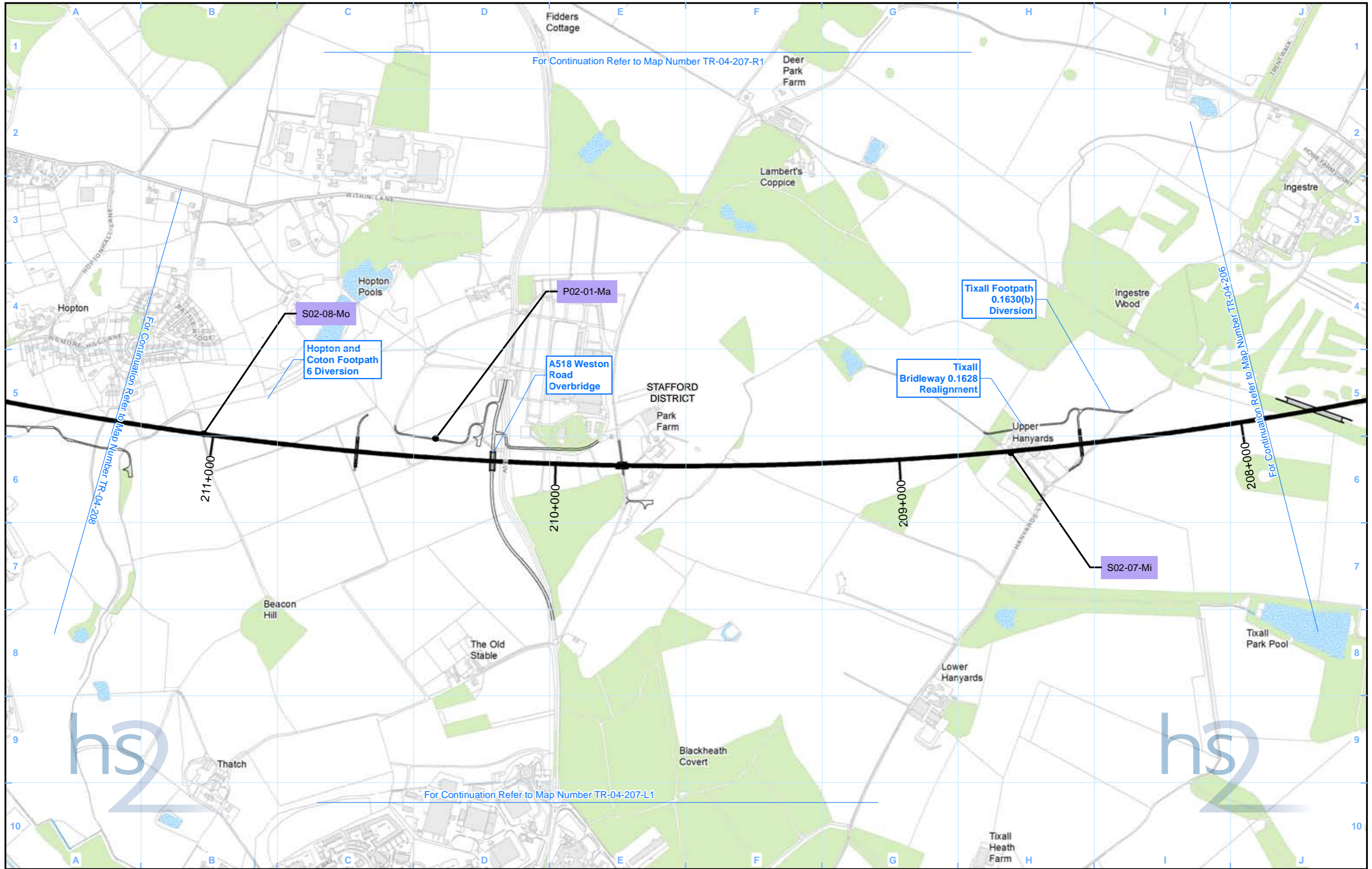
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Date: 14/06/17



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For Continuation Refer to Map Number TR-04-208

For Continuation Refer to Map Number TR-04-206

For Continuation Refer to Map Number TR-04-207-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number
TR-04-207

Map Name
Significant Residual Transport Effects Arising from Operation

Community Area 2:
Colwich to Yarlet

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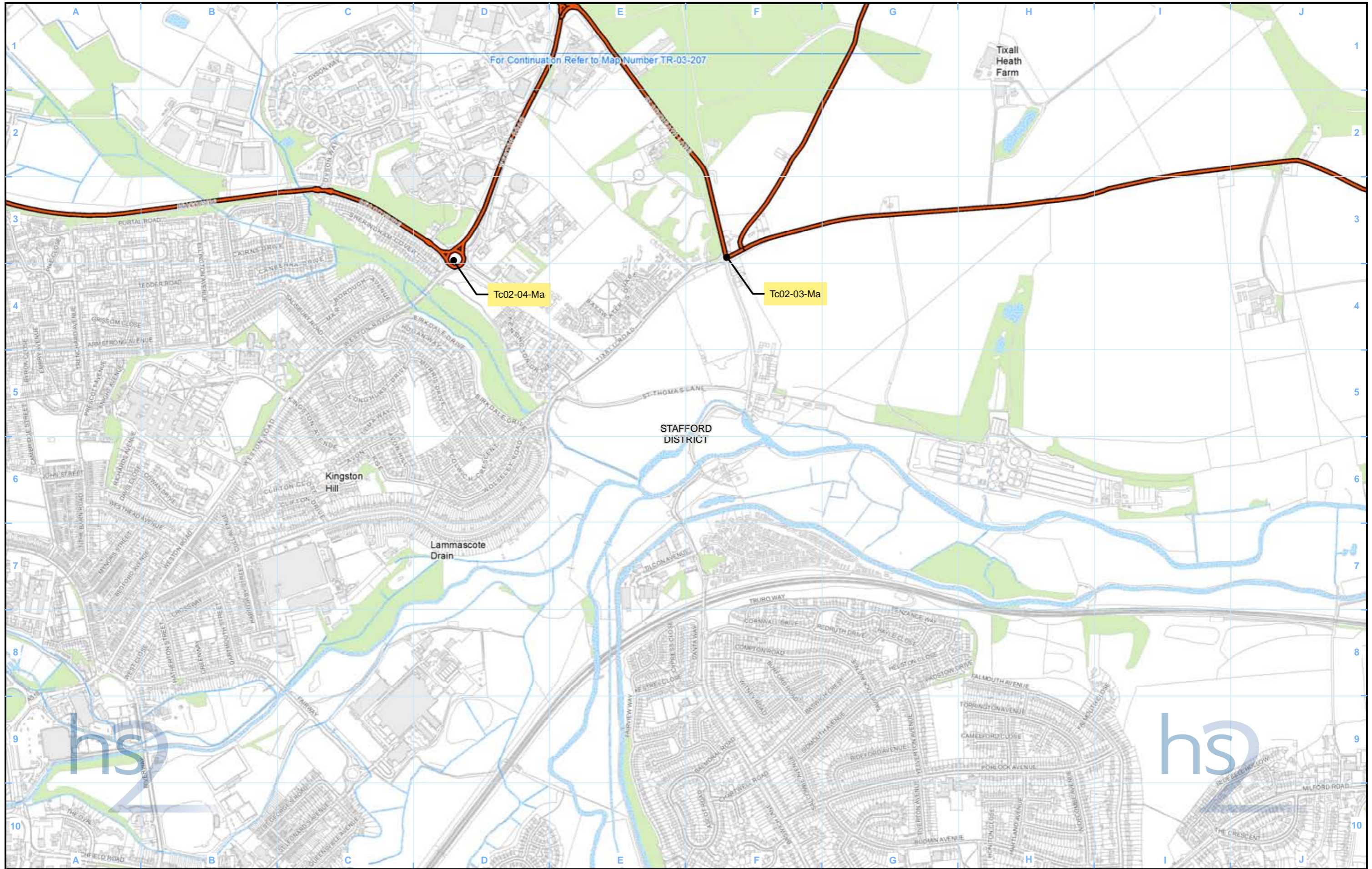
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Tc02-04-Ma

Tc02-03-Ma

STAFFORD DISTRICT

Kingston Hill

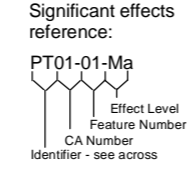
Lammascote Drain

Tixall Heath Farm

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-207-L1**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

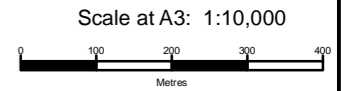
Community Area 2:
Colwich to Yarlet



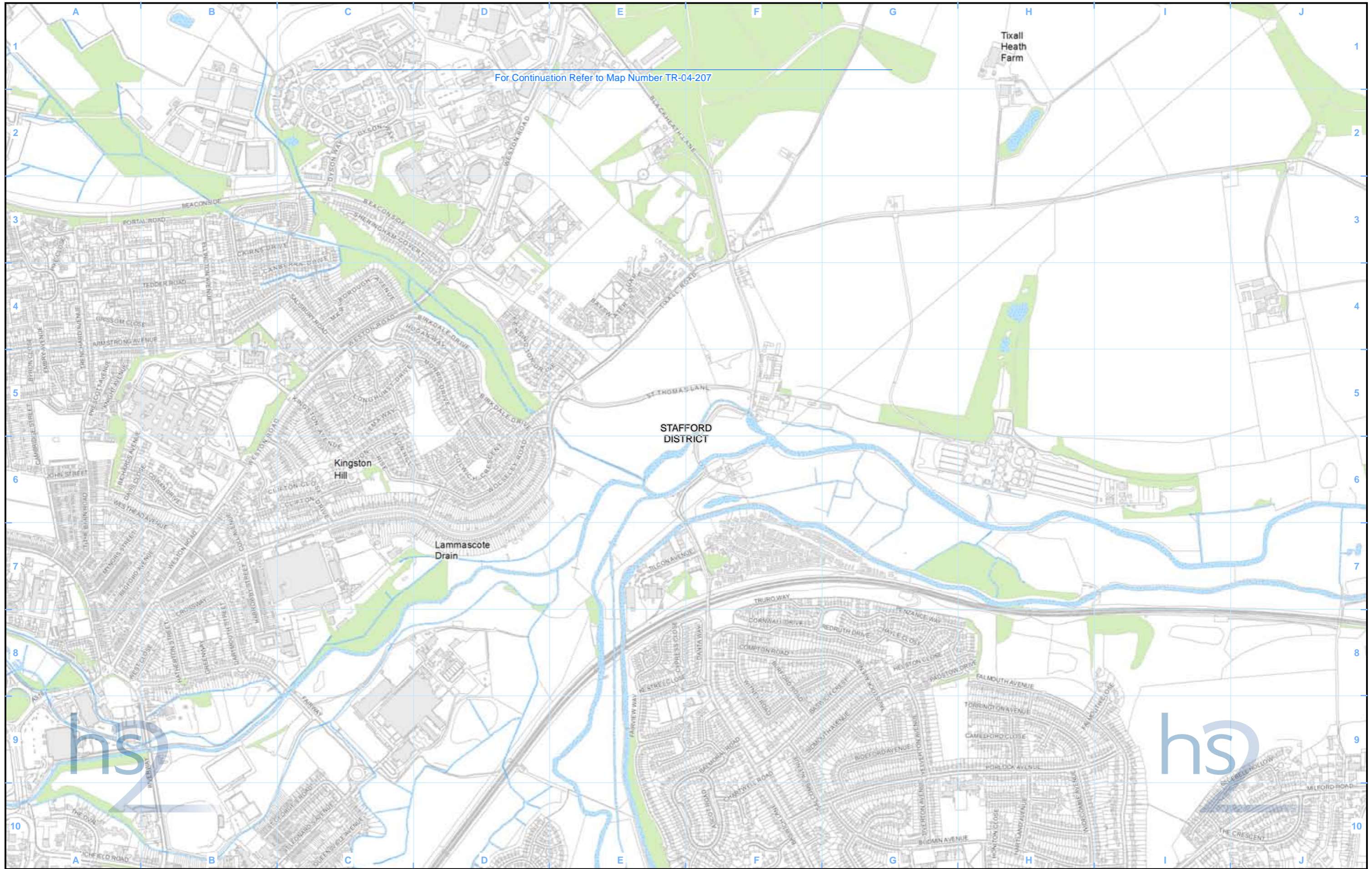
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For Continuation Refer to Map Number TR-04-207

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number **TR-04-207-L1**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 2:
Colwich to Yarlet

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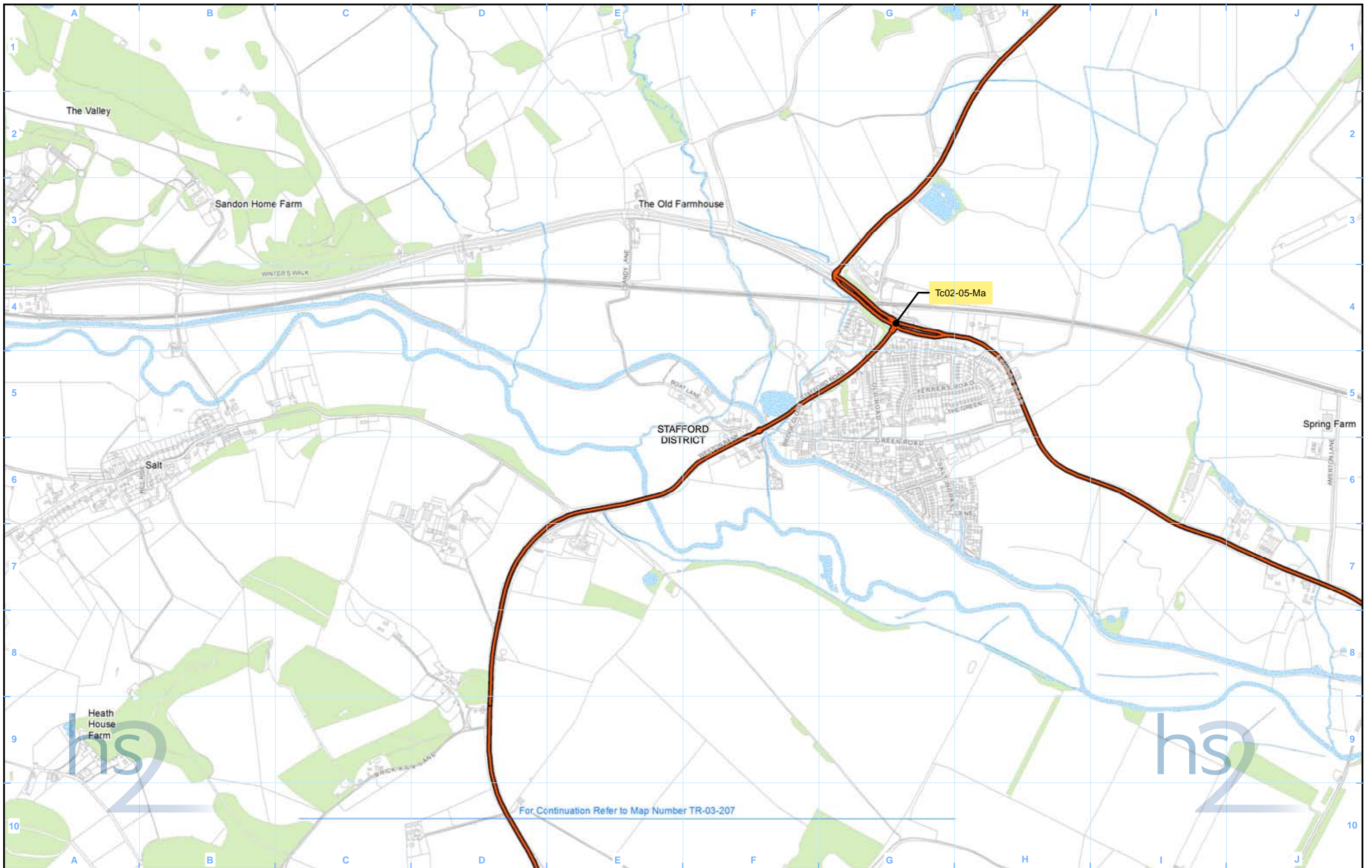
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0 100 200 300 400 Metres

Doc Number: C861-ARP-EV-MAP-000-144407 P04 **Date:** 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-207-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2: Colwich to Yarlet

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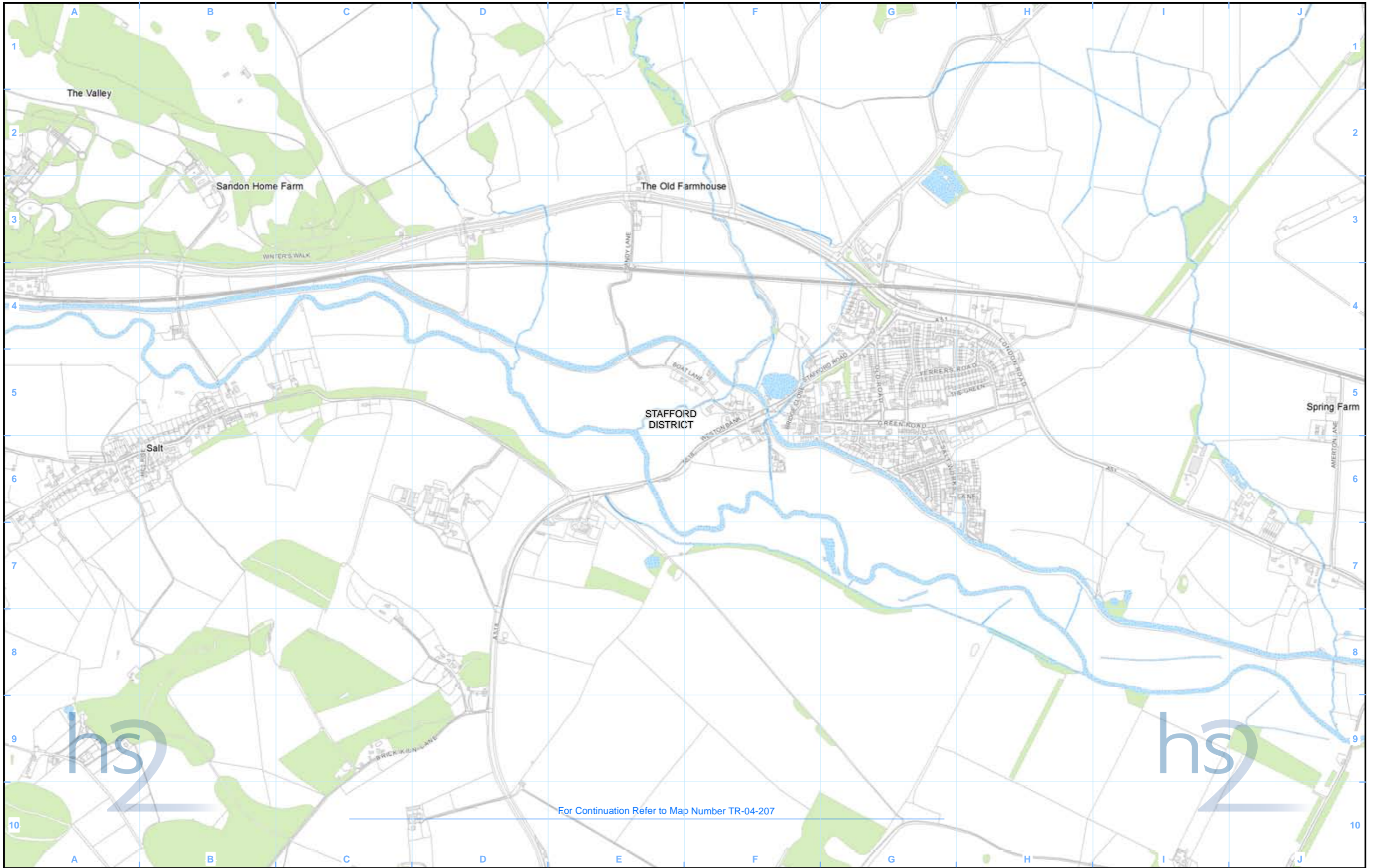
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Date: 14/06/17



For Continuation Refer to Map Number TR-04-207

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-207-R1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 2:
Colwich to Yarlet

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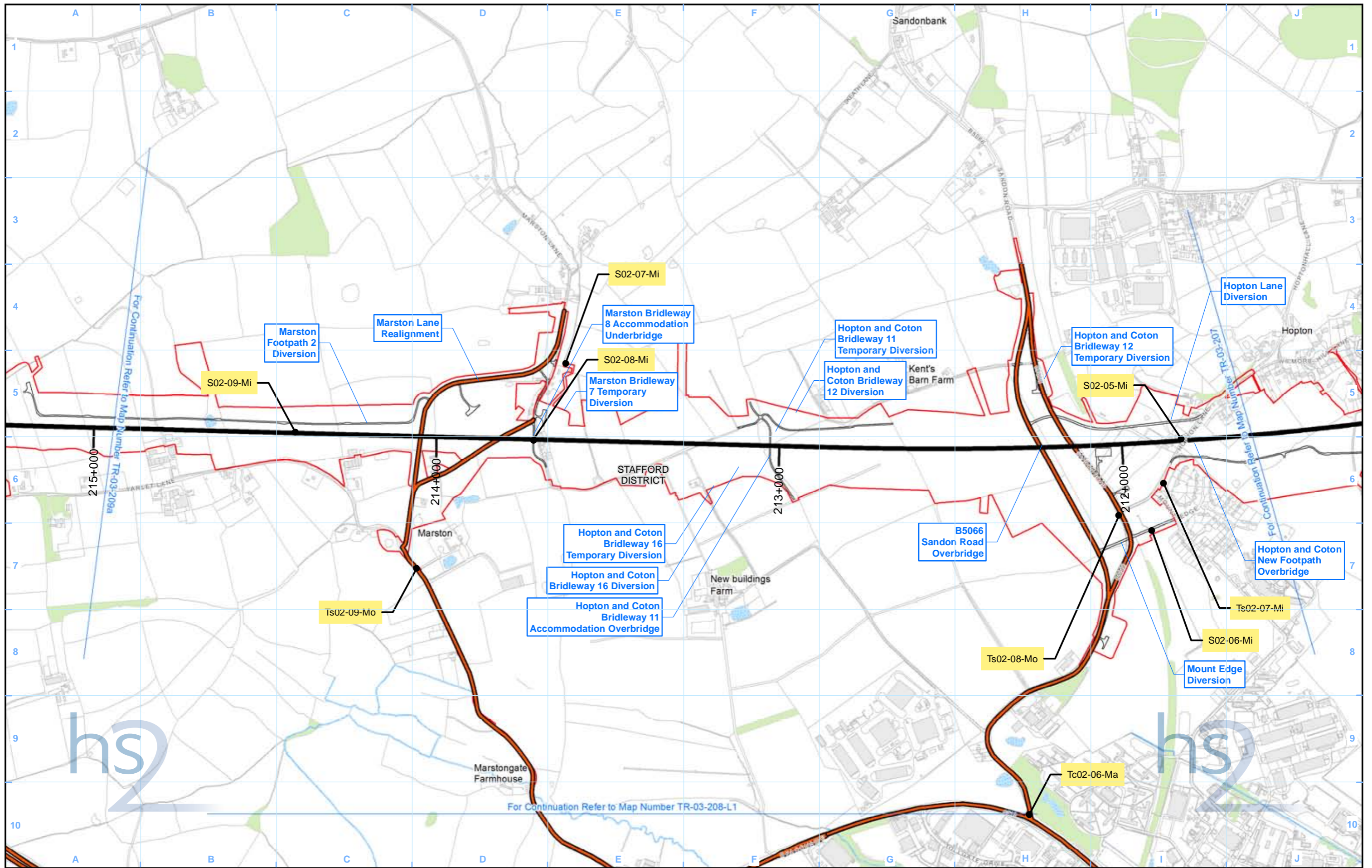
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Scale at A3: 1:10,000

Doc Number: C861-ARP-EV-MAP-000-144307 P04

Date: 15/06/17



Legend

- Route in tunnel (thick black line)
- Route on surface (thin black line)
- Depot, station, headhouse or portal building (red outline)
- Land potentially required during construction (red outline)
- Community area boundary (dotted line)
- County boundary (dashed line)
- District/Borough boundary (dashed line)
- Watercourse (blue line)
- Water body (blue hatched area)
- Woodland (green area)

Construction significant effects:

- Adverse-permanent (purple)
- Adverse-temporary (yellow)
- Beneficial-temporary (green)
- Beneficial-permanent (light blue)
- Construction traffic route (orange)

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-208

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2: Colwich to Yarlet

hs2

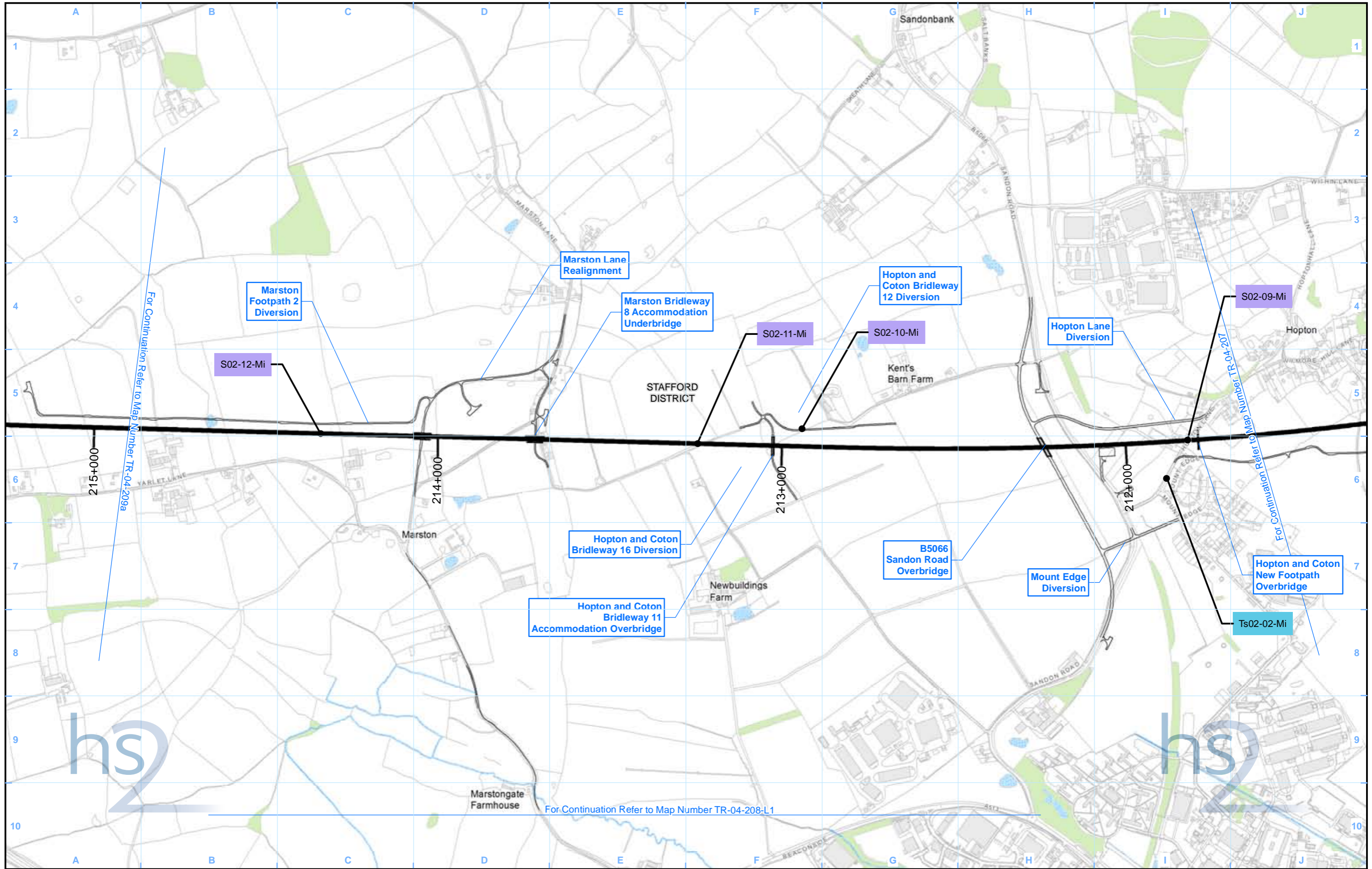
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Doc Number: C861-ARP-EV-MAP-000-143208 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-208

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

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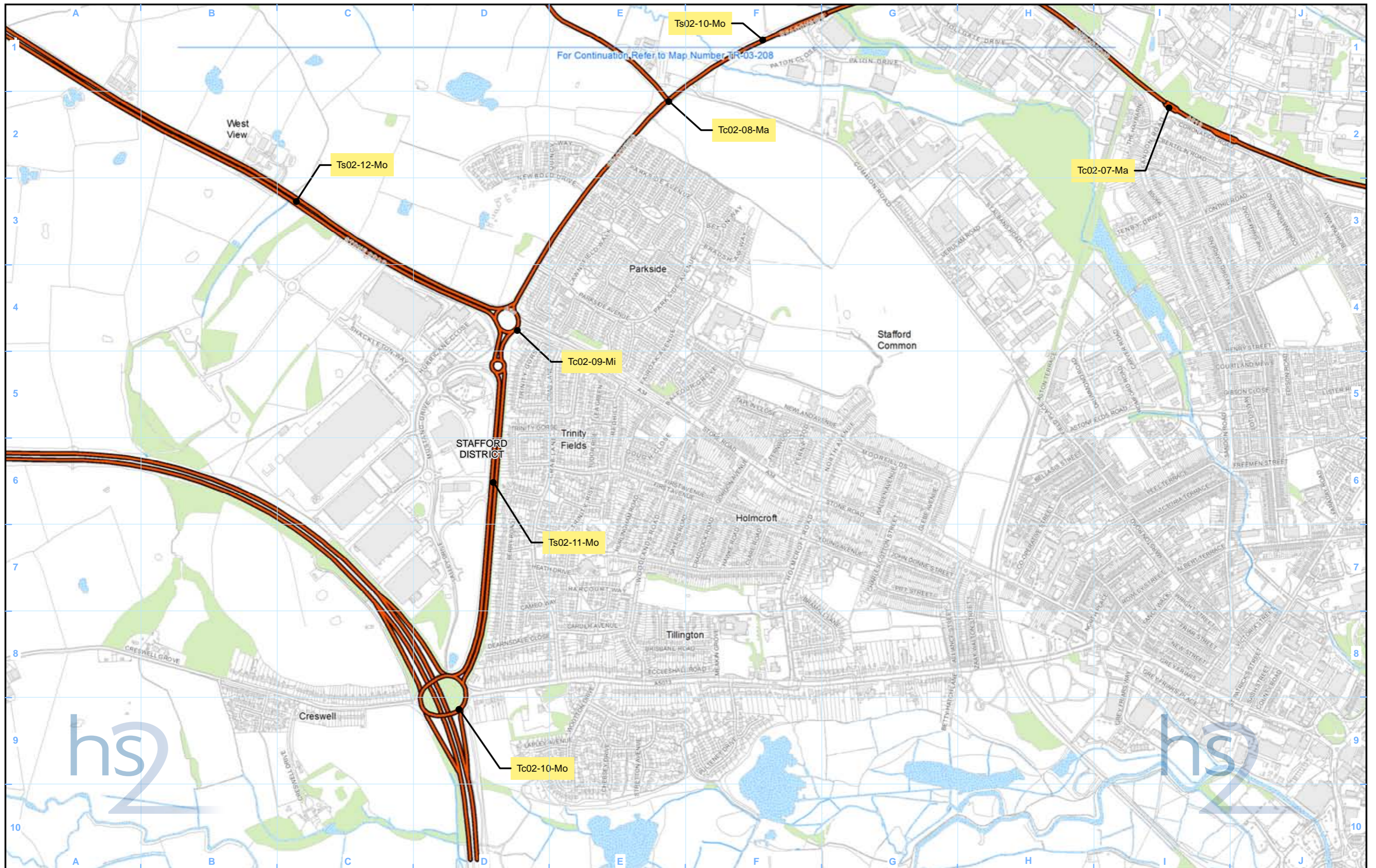
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Doc Number: C861-ARP-EV-MAP-000-144208 P04

Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-208-L1**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 2:
Colwich to Yarlet

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Doc Number: C861-ARP-EV-MAP-000-143308 P04

Date: 14/06/17

For Continuation Refer to Map Number TR-04-208



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-208-L1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 2: Colwich to Yarlet

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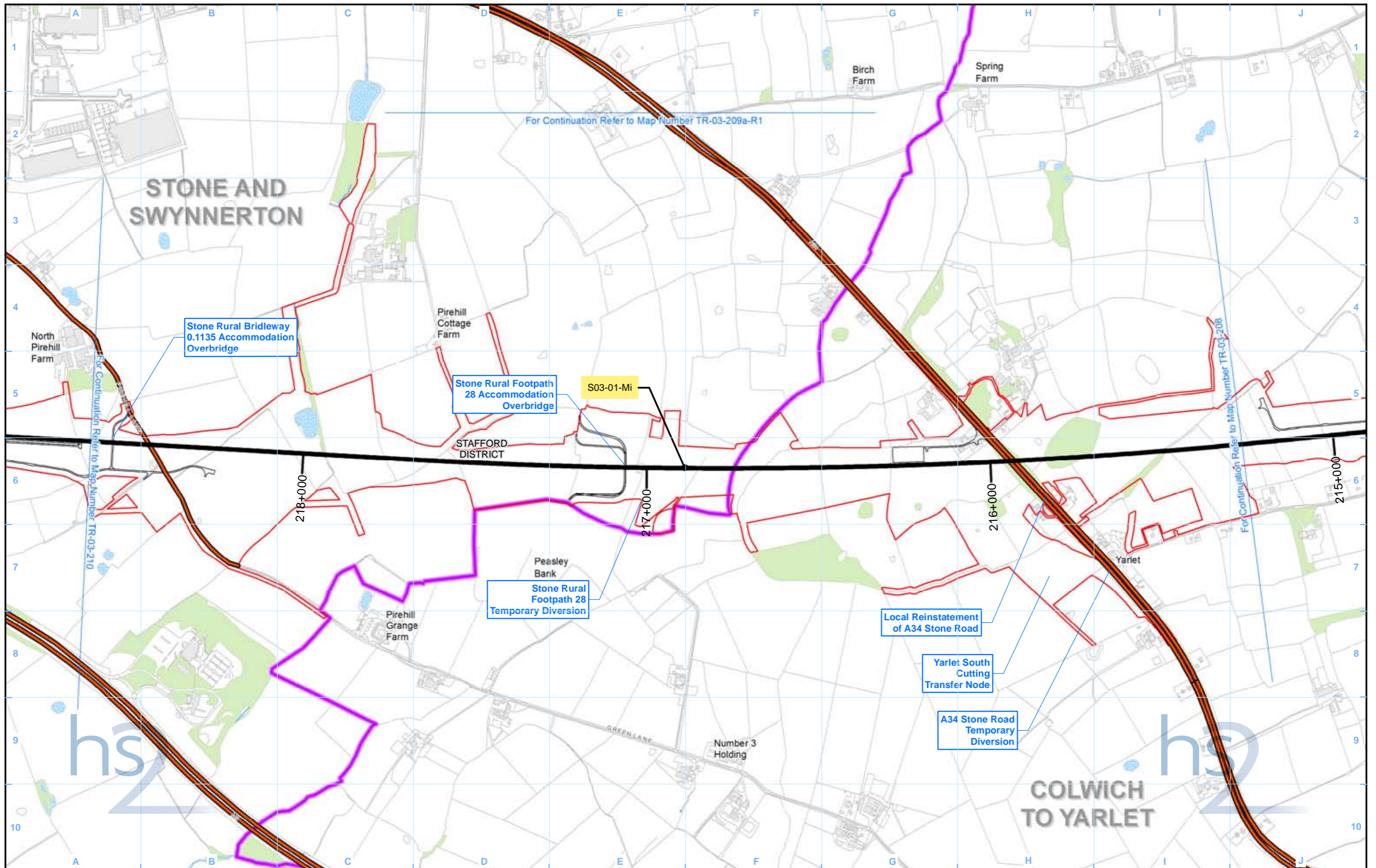
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Doc Number: C861-ARP-EV-MAP-000-144308 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-209a

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 2: Colwich to Yarlet

hs2

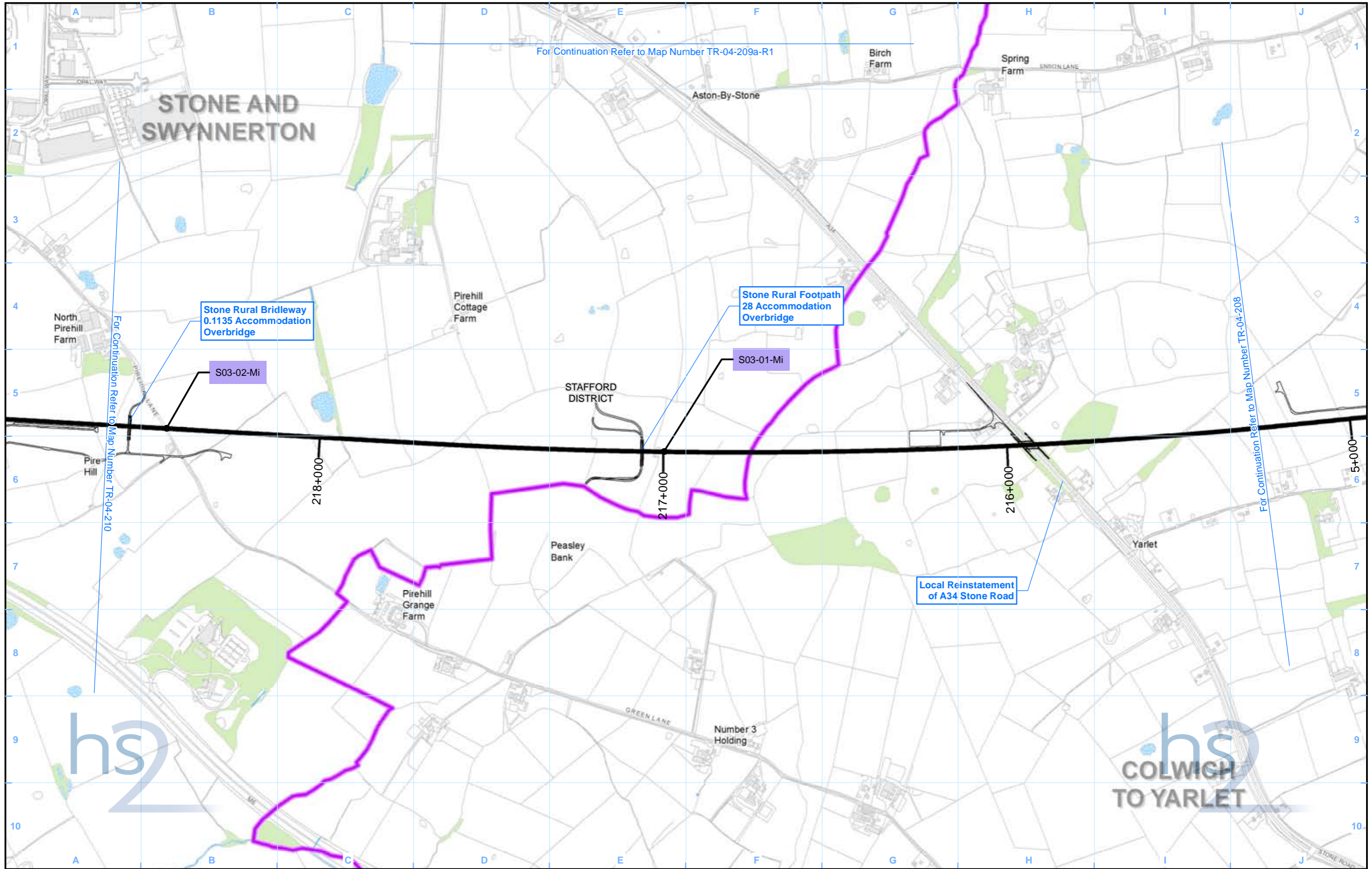
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Doc Number: C861-ARP-EV-MAP-000-143209 P04

Date: 14/06/17



For Continuation Refer to Map Number TR-04-209a-R1

For Continuation Refer to Map Number TR-04-210

For Continuation Refer to Map Number TR-04-208

Stone Rural Bridleway
0.1135 Accommodation
Overbridge

Stone Rural Footpath
28 Accommodation
Overbridge

Local Reinstatement
of A34 Stone Road

S03-02-Mi

S03-01-Mi

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Operational Significant Effects

Significant effect reference:
PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-209a

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

hs COLWICH TO YARLET

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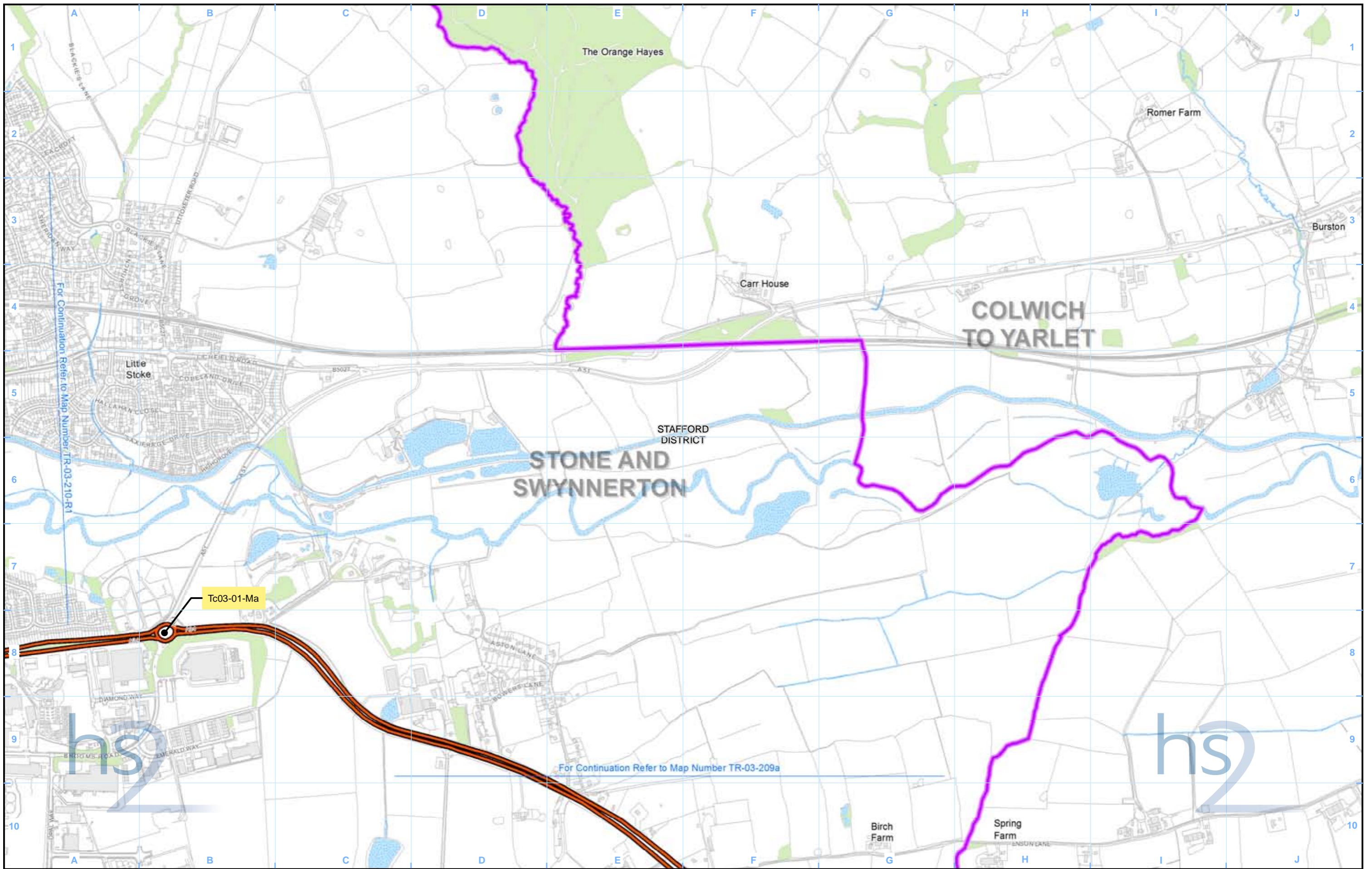
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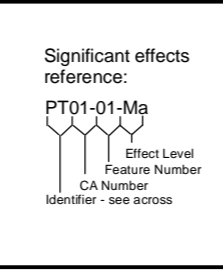
Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-209a-R1**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 2:
Colwich to Yarlet

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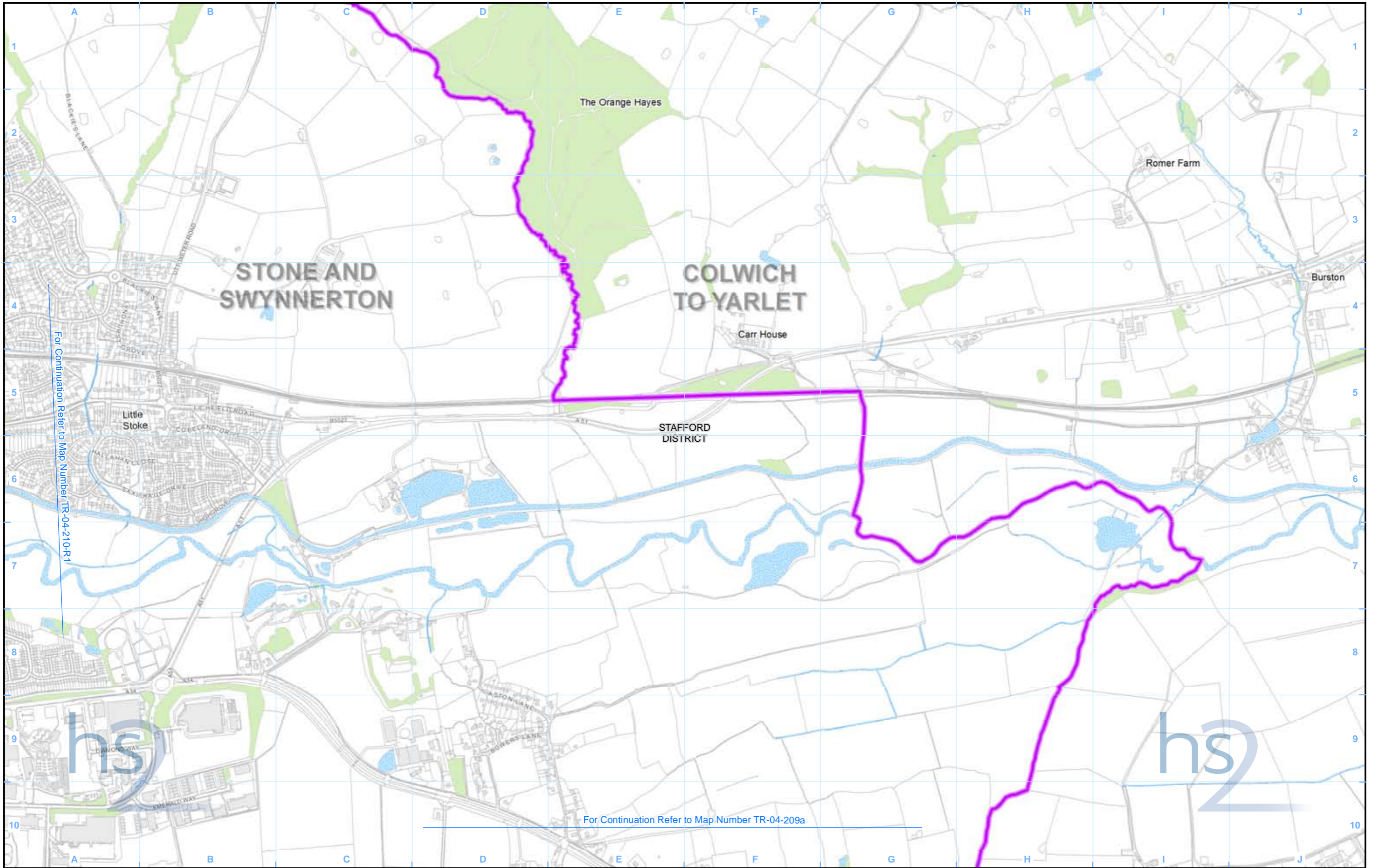
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Doc Number: C861-ARP-EV-MAP-000-143309 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-209a-R1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 2: Colwich to Yarlet

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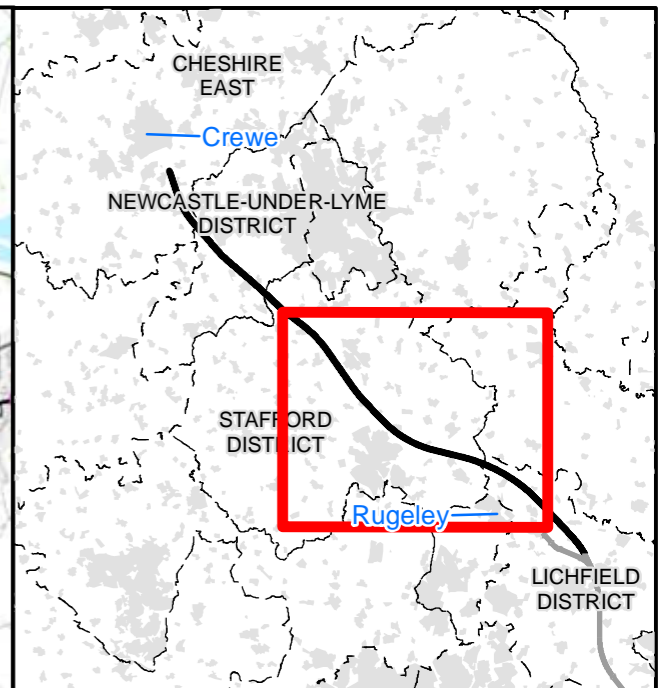
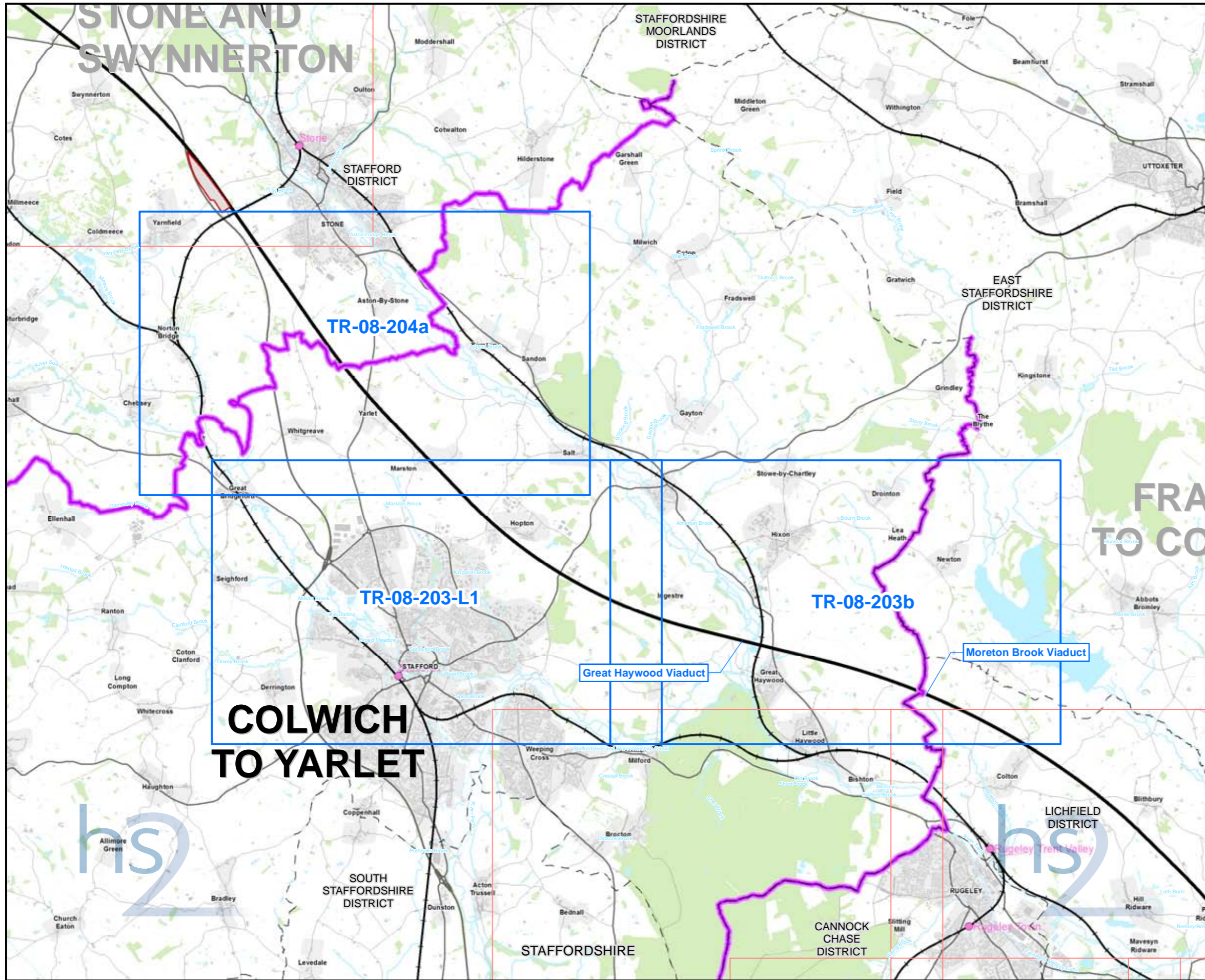
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Scale at A3: 1:10,000

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Doc Number: C861-ARP-EV-MAP-000-144309 P04

Date: 15/06/17



Map Series Information:

This map series identifies the main construction access routes for construction compounds to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.

Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Existing railway station
Community area boundary	County boundary
Existing railway station	District/Borough boundary

Map Number	TR-08-INDEX-CA2
Map Name	Index Map of: Construction Routes to the Strategic Network
	Community Area 2: Colwich to Yarlet

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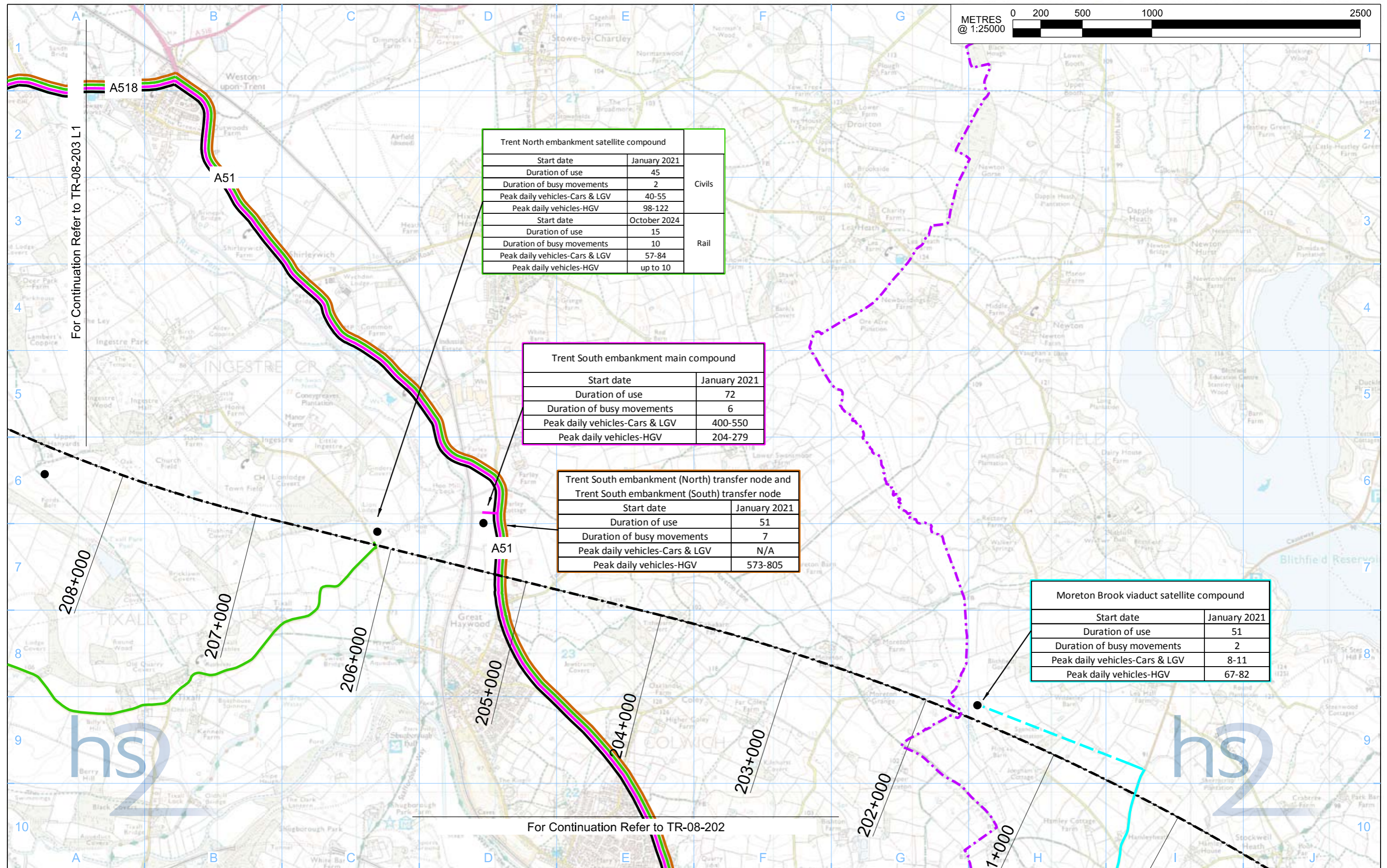
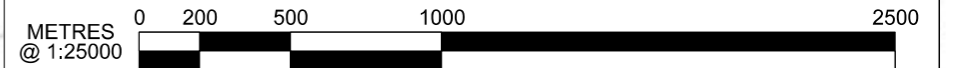
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Doc Number: C861-ARP-EV-MAP-000-148002 - P04

Date: 16/06/17



Trent North embankment satellite compound		Civils
Start date	January 2021	
Duration of use	45	
Duration of busy movements	2	
Peak daily vehicles-Cars & LGV	40-55	
Peak daily vehicles-HGV	98-122	
Start date	October 2024	Rail
Duration of use	15	
Duration of busy movements	10	
Peak daily vehicles-Cars & LGV	57-84	
Peak daily vehicles-HGV	up to 10	

Trent South embankment main compound	
Start date	January 2021
Duration of use	72
Duration of busy movements	6
Peak daily vehicles-Cars & LGV	400-550
Peak daily vehicles-HGV	204-279

Trent South embankment (North) transfer node and Trent South embankment (South) transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	7
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	573-805

Moreton Brook viaduct satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	8-11
Peak daily vehicles-HGV	67-82

For Continuation Refer to TR-08-203 L1

For Continuation Refer to TR-08-202

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: **TR-08-203b**

Map Name: **Construction Routes to the Strategic Network**

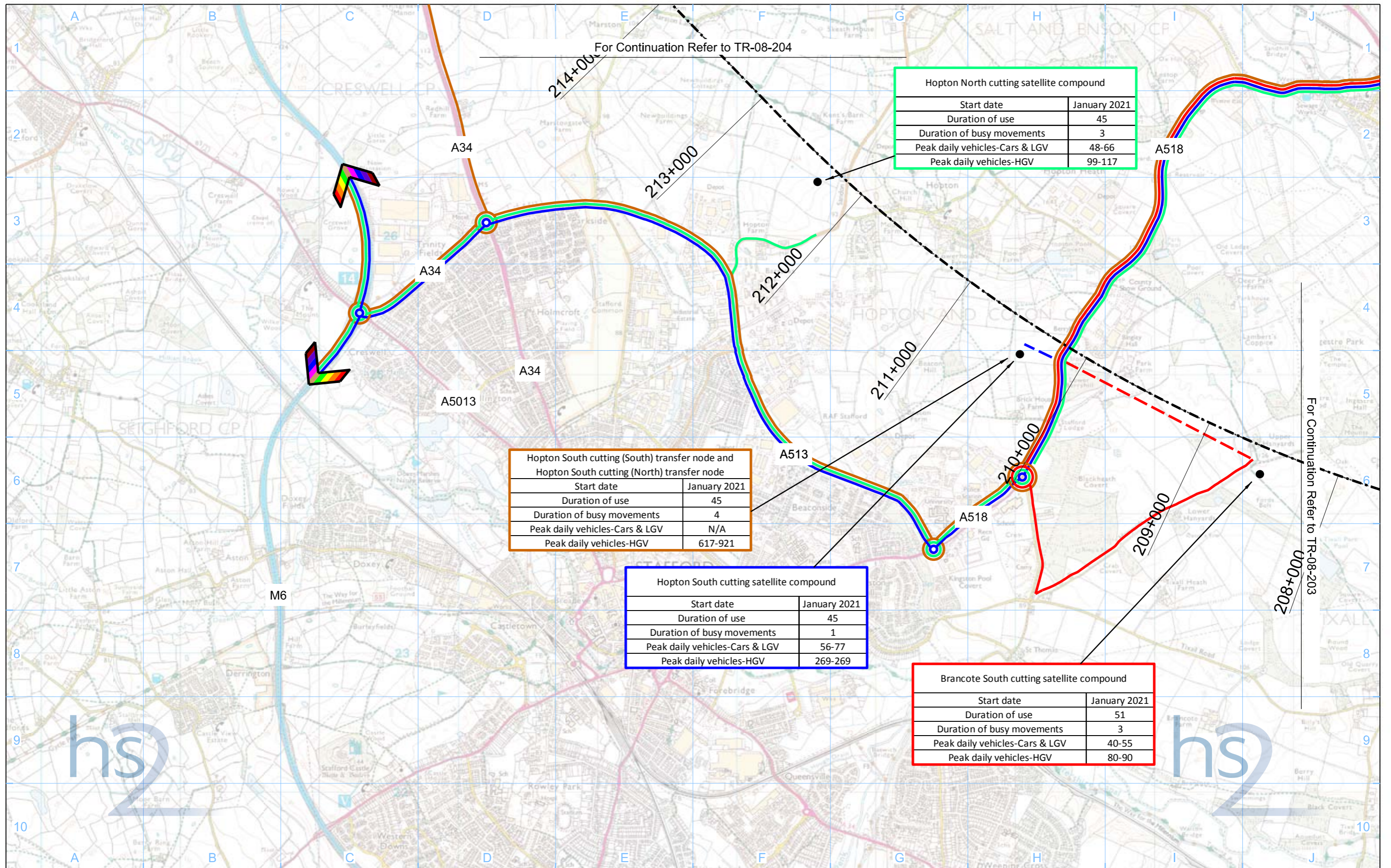
Community Area: **CA2 Colwich to Yarlet**

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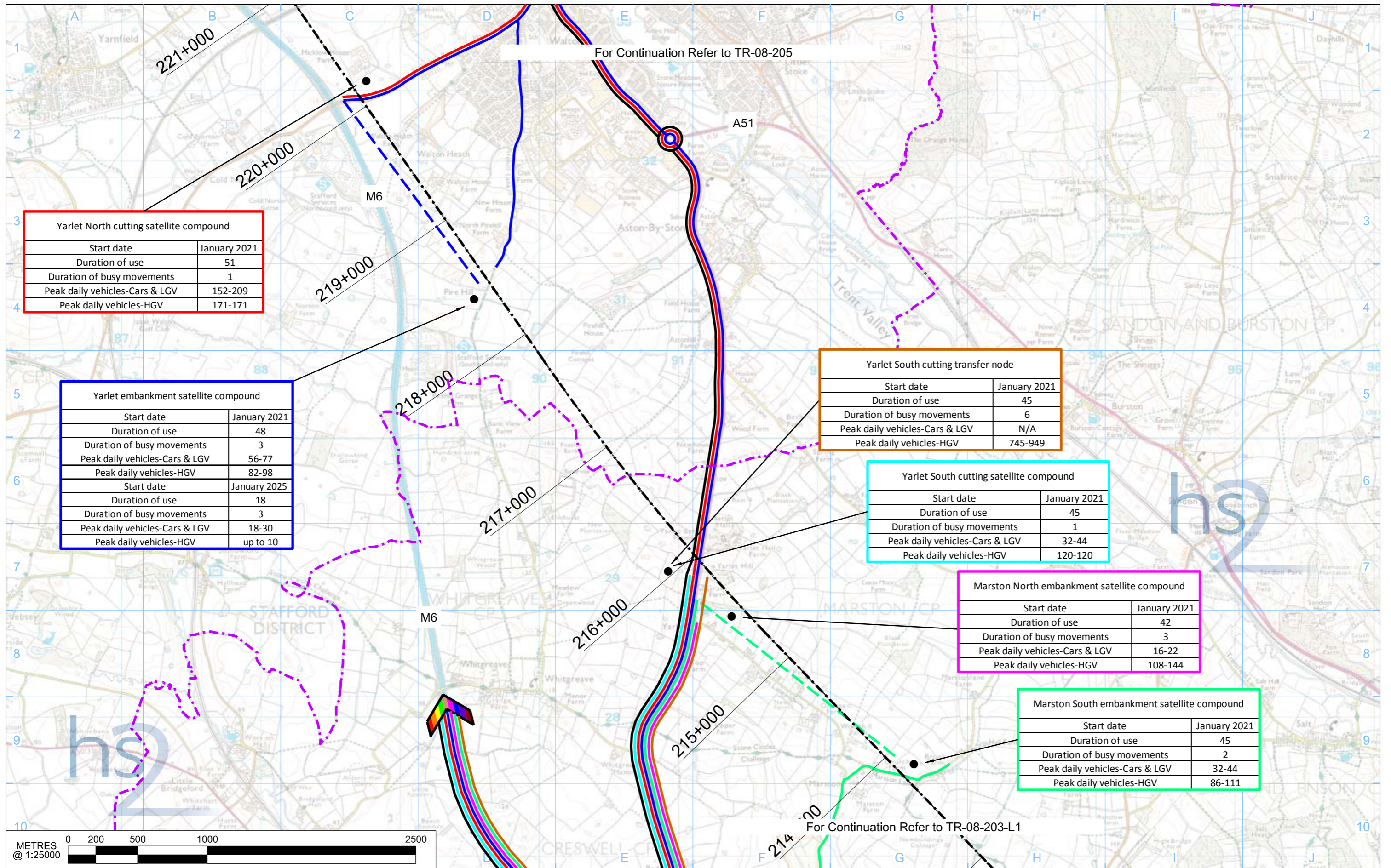
Hopton North cutting satellite compound	
Start date	January 2021
Duration of use	45
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	48-66
Peak daily vehicles-HGV	99-117

Hopton South cutting (South) transfer node and Hopton South cutting (North) transfer node	
Start date	January 2021
Duration of use	45
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	617-921

Hopton South cutting satellite compound	
Start date	January 2021
Duration of use	45
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	269-269

Brancote South cutting satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	40-55
Peak daily vehicles-HGV	80-90

Legend Compound Traffic Routes Site Haul to Compound Through Construction Traffic Routes (To/From Other Scheme Compounds) HS2 Route Onward Construction Routes Community Area boundary Through Site Haul to Compound (To/From Other Scheme Compounds) Movement of Excavated Material Construction Compounds		Map Number TR-08-203-L1 Map Name Construction Routes to the Strategic Network Community Area CA2 Colwich to Yarlet	 HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way. Registered in England. Registration number 06791686 Registered office: 2 Snow Hill, Queensway, Birmingham, B4 6GA © Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190. Doc Number: C861-ARP-TM-DLO-000-200103 P01 Date: 16/06/17
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Yarlet North cutting satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	152-209
Peak daily vehicles-HGV	171-171

Yarlet embankment satellite compound	
Start date	January 2021
Duration of use	48
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	82-98
Start date	January 2025
Duration of use	18
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	18-30
Peak daily vehicles-HGV	up to 10

Yarlet South cutting transfer node	
Start date	January 2021
Duration of use	45
Duration of busy movements	6
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	745-949

Yarlet South cutting satellite compound	
Start date	January 2021
Duration of use	45
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	32-44
Peak daily vehicles-HGV	120-120

Marston North embankment satellite compound	
Start date	January 2021
Duration of use	42
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	16-22
Peak daily vehicles-HGV	108-144

Marston South embankment satellite compound	
Start date	January 2021
Duration of use	45
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	32-44
Peak daily vehicles-HGV	86-111

Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-204a

Map Name
Construction Routes to the Strategic Network

Community Area
CA2 Colwich to Yarlet

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Doc Number: C861-ARP-TM-DLO-000-200004 P02 Date: 15/06/17

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High Speed Rail (West Midlands-Crewe)

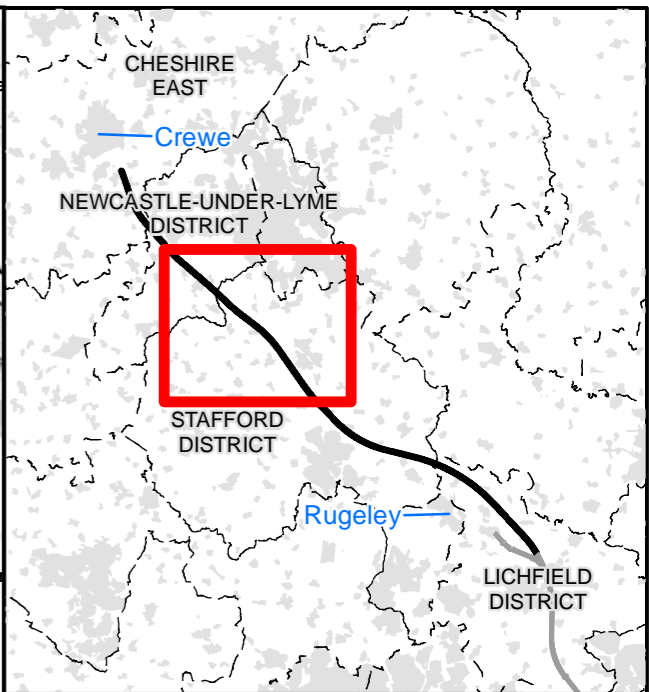
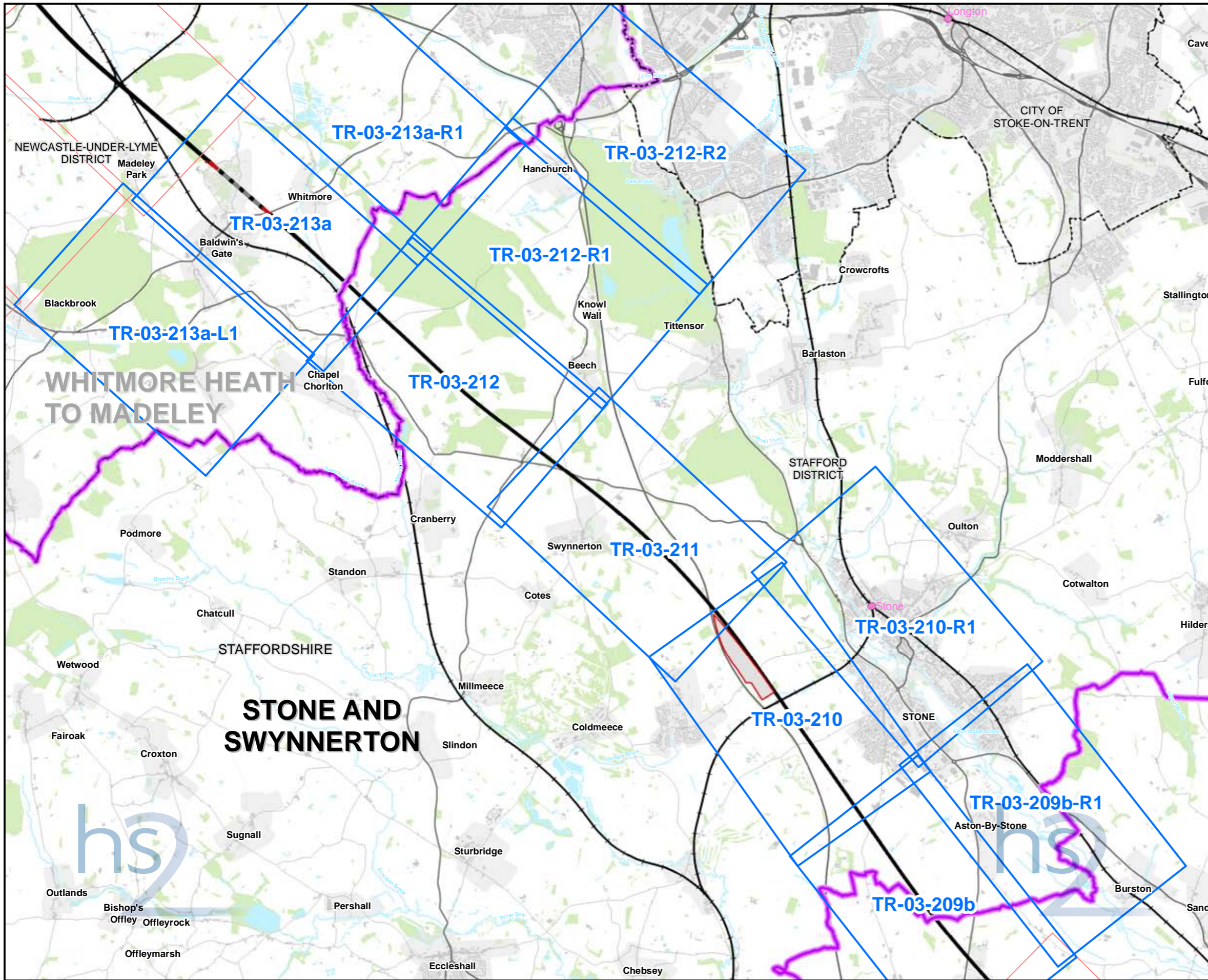
Environmental Statement

CA3 Stone and Swynnerton

**TR-03 - Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes**

TR-04 - Significant Residual Transport Effects Arising from Operation

TR-08 - Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	TR-03-INDEX-CA3
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes
	Community Area 3: Stone and Swynnerton

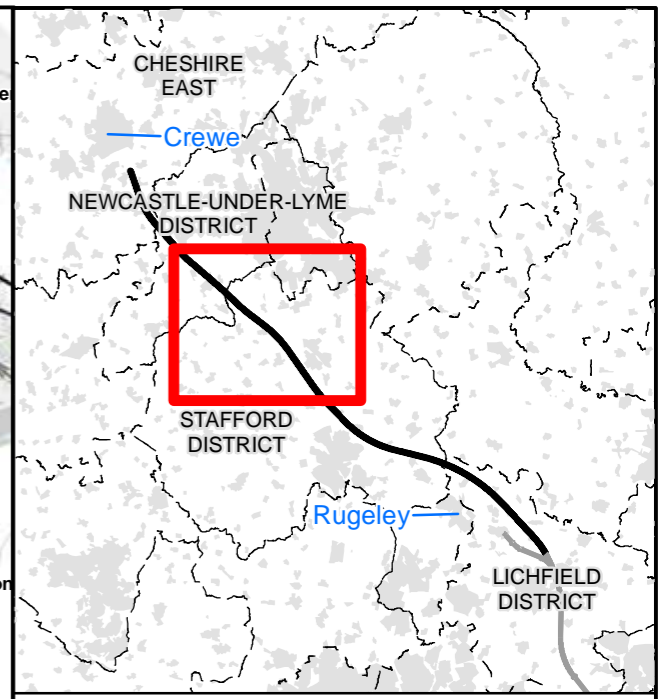
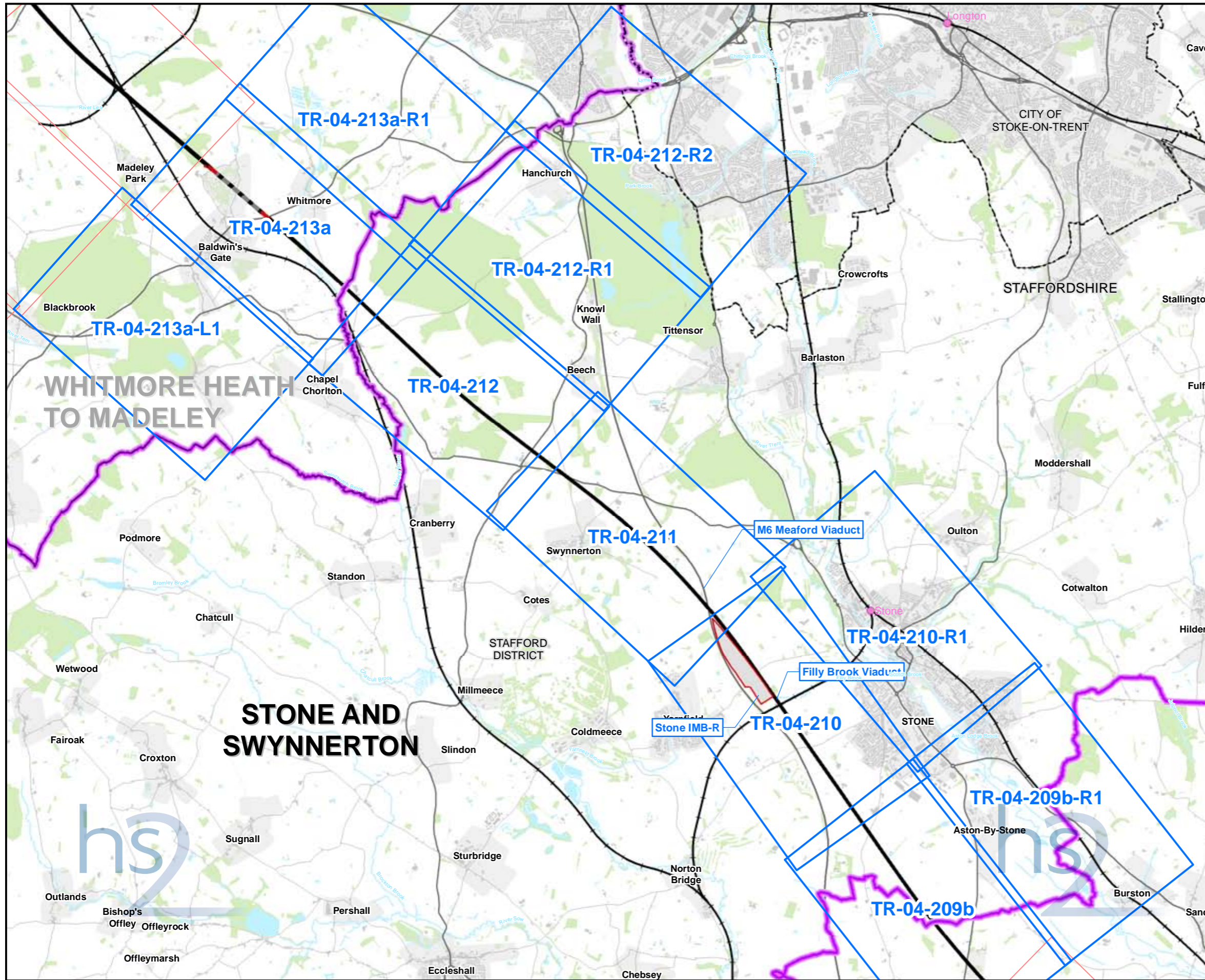
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Doc Number: C861-ARP-EV-MAP-000-143003 - P04 **Date: 13/06/17**



Map Series Information:

Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	TR-04-INDEX-CA3
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation
	Community Area 3: Stone and Swynnerton

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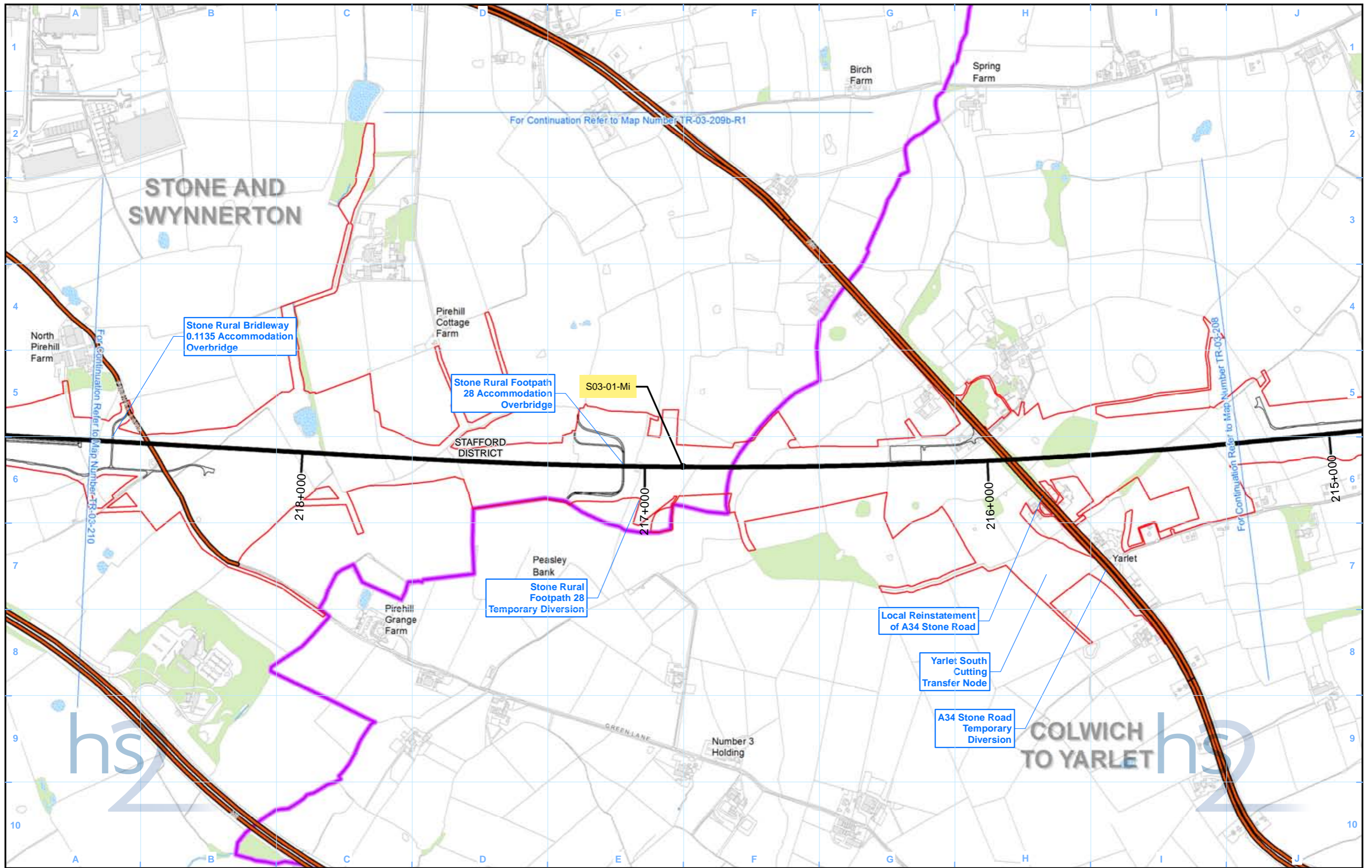
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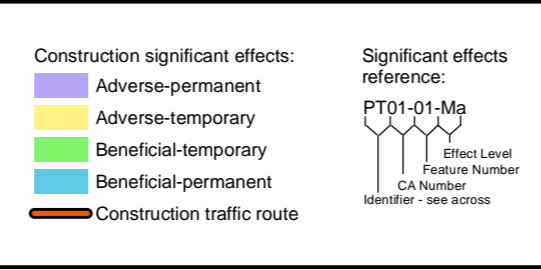
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Date: 14/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-209b

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

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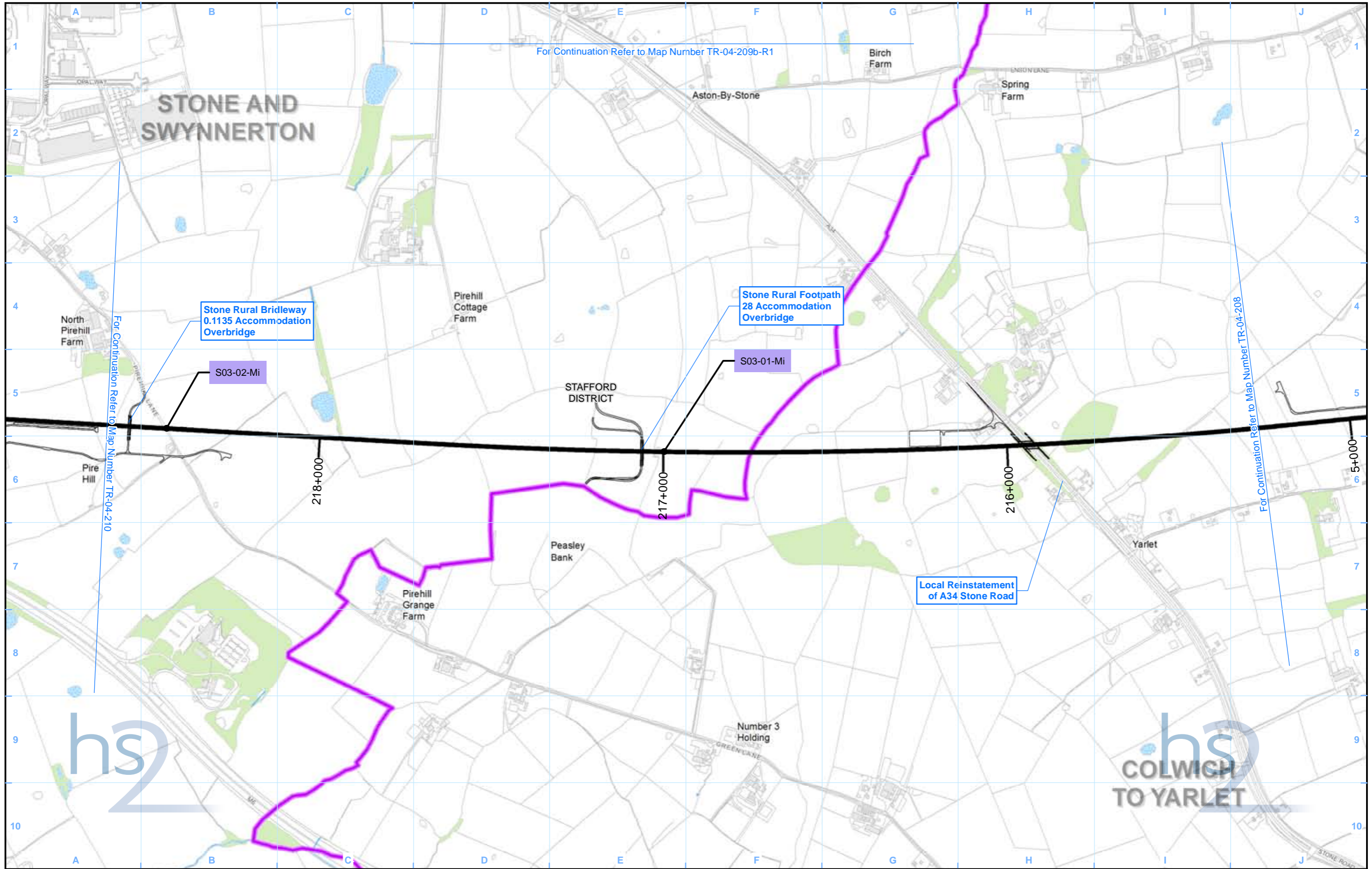
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For Continuation Refer to Map Number TR-04-209b-R1

For Continuation Refer to Map Number TR-04-210

For Continuation Refer to Map Number TR-04-208

Stone Rural Bridleway
0.1135 Accommodation
Overbridge

Stone Rural Footpath
28 Accommodation
Overbridge

Local Reinstatement
of A34 Stone Road

S03-02-Mi

S03-01-Mi

218+000

217+000

216+000

5+000



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year

Effect Level

Feature Number

CA Number

Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-209b

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 3: Stone and Swynnerton

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COLWICH TO YARLET

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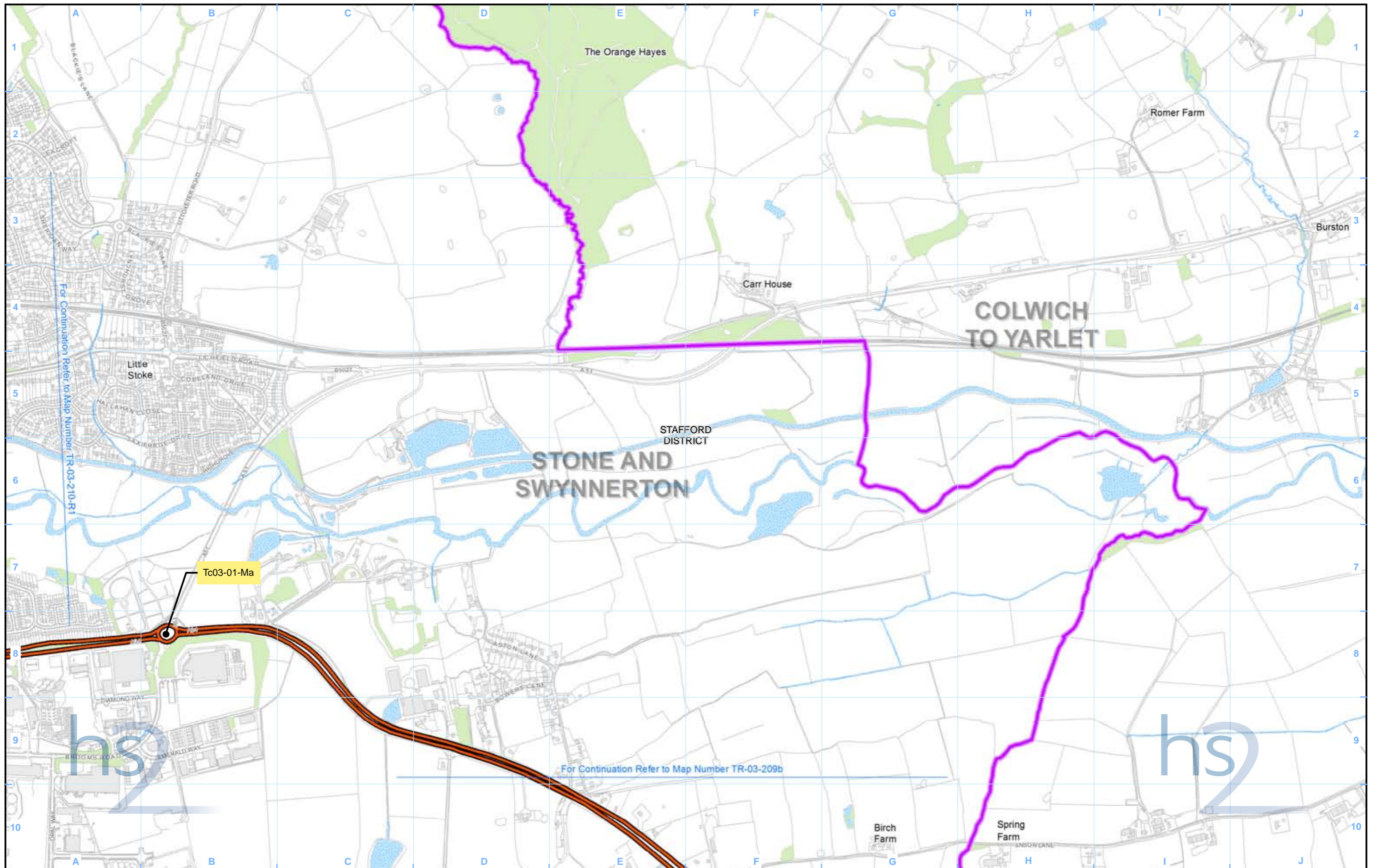
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Doc Number: C861-ARP-EV-MAP-000-144409 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number TR-03-209b-R1

Map Name
Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3:
Colwich to Yarlet

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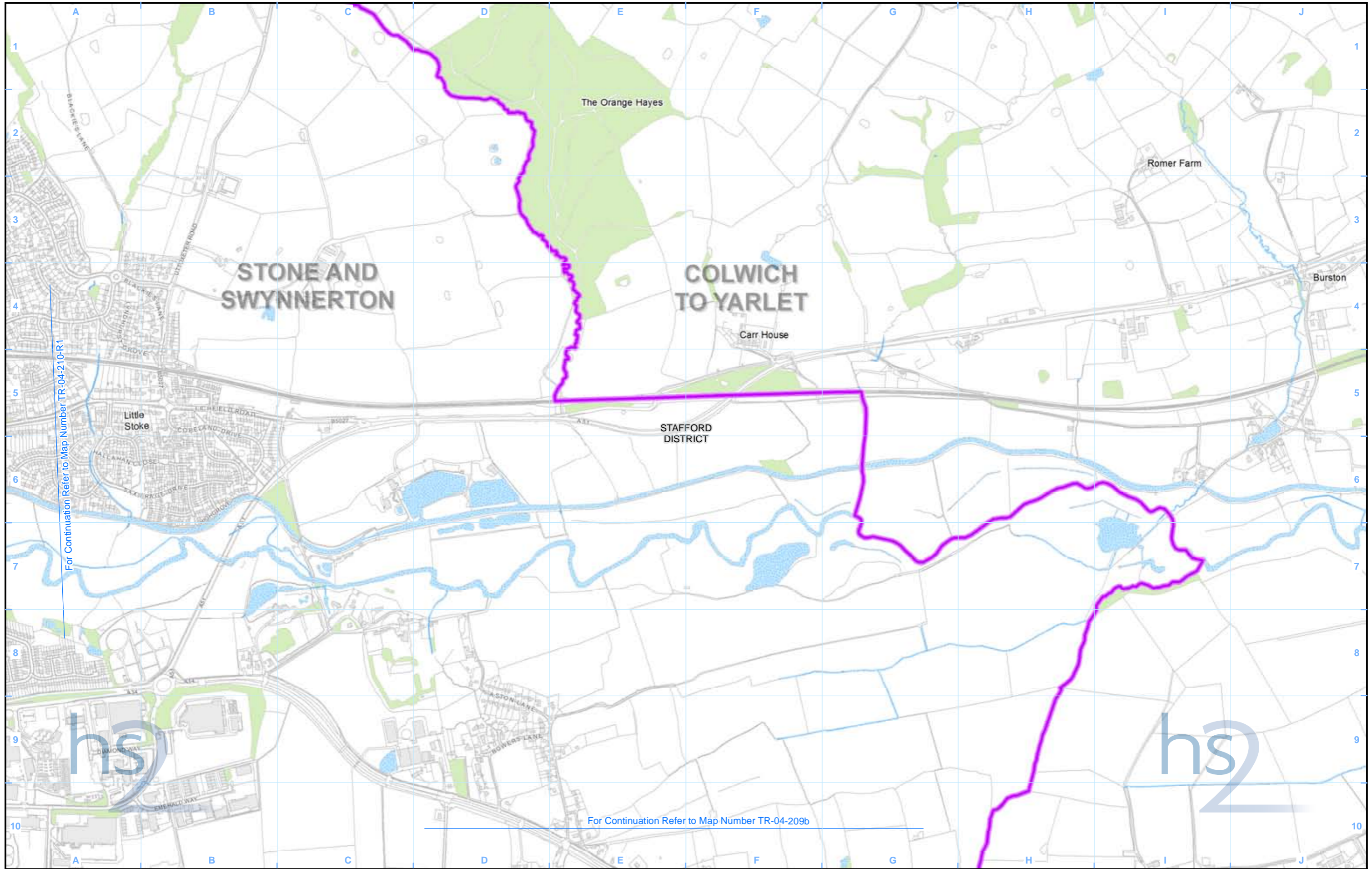
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Date: 14/06/17



For Continuation Refer to Map Number TR-04-210-R1

For Continuation Refer to Map Number TR-04-209b

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary

Operational Significant Effects

- Watercourse
- Water body
- Woodland
- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-209b-R1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3:
Stone and Swynnerton

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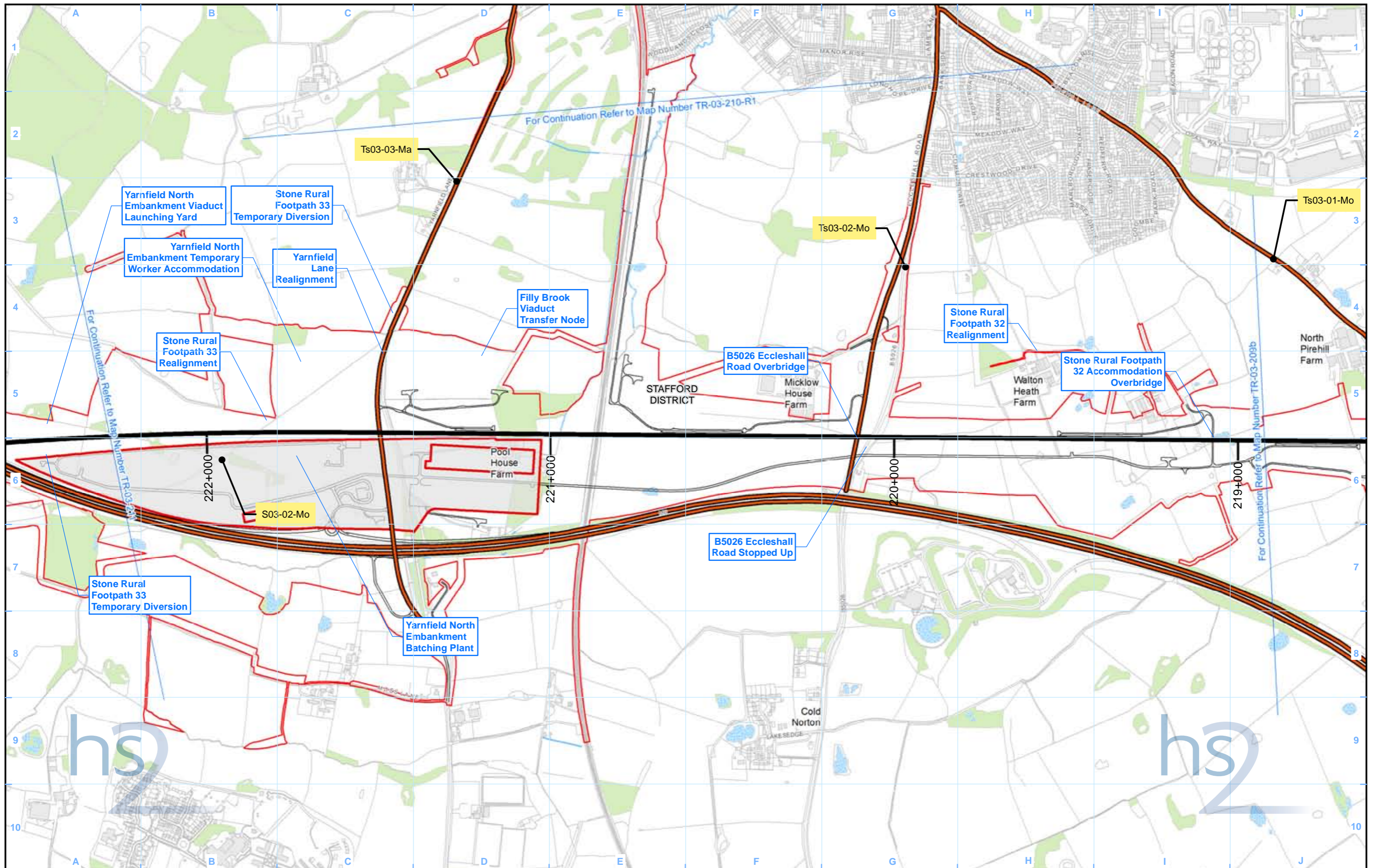
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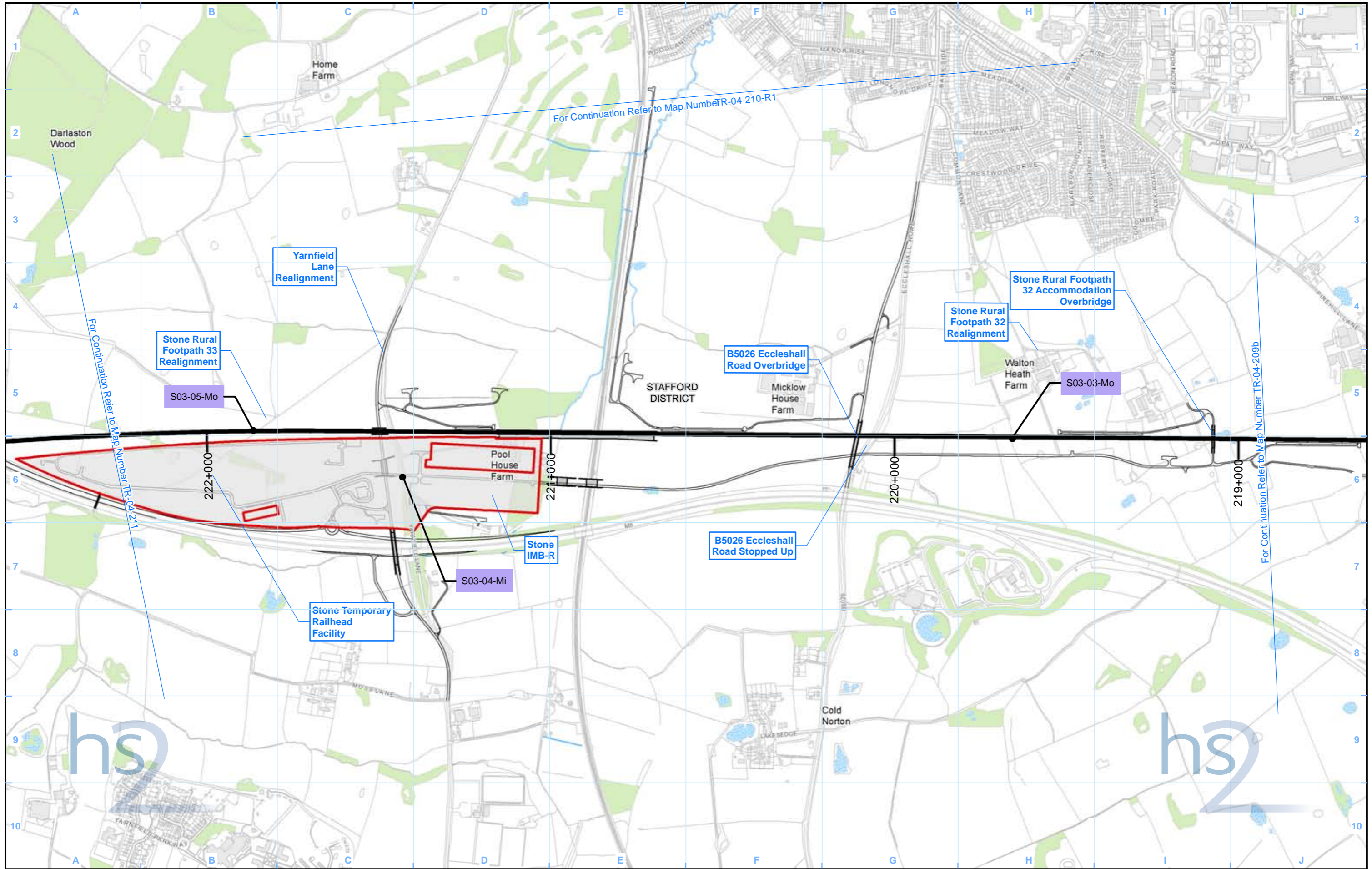
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Doc Number: C861-ARP-EV-MAP-000-144509 P04

Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delays D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-210</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 3: Stone and Swynnerton</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p></p> <p>Doc Number: C861-ARP-EV-MAP-000-143210 P04</p> <p>Date: 14/06/17</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-210

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 3: Stone and Swynnerton

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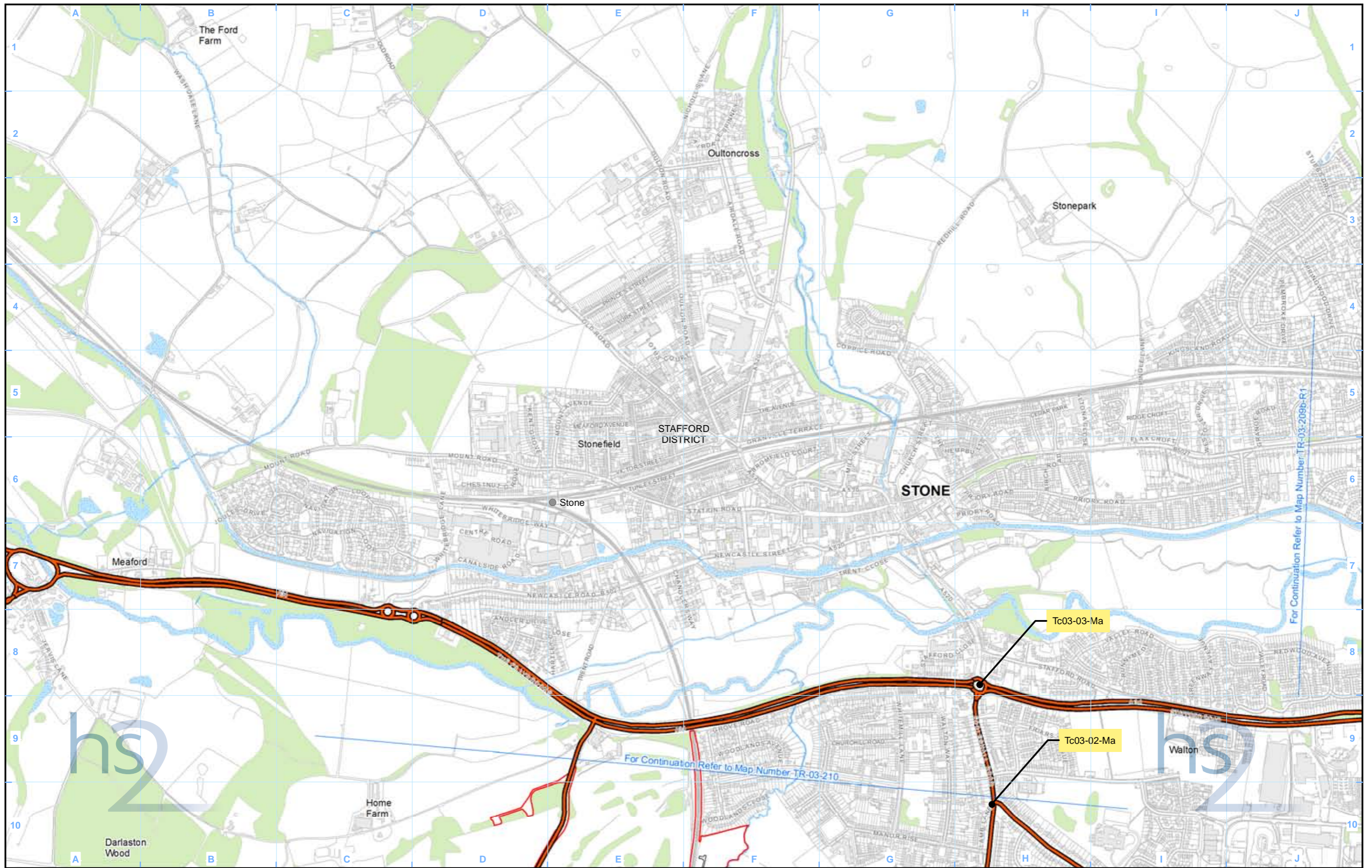
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-210-R1

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 3:
Stone and Swynnerton

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For Continuation Refer to Map Number TR-03-210



For Continuation Refer to Map Number TR-04-209b-R1

For Continuation Refer to Map Number TR-04-210

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-210-R1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3:
Stone and Swynnerton

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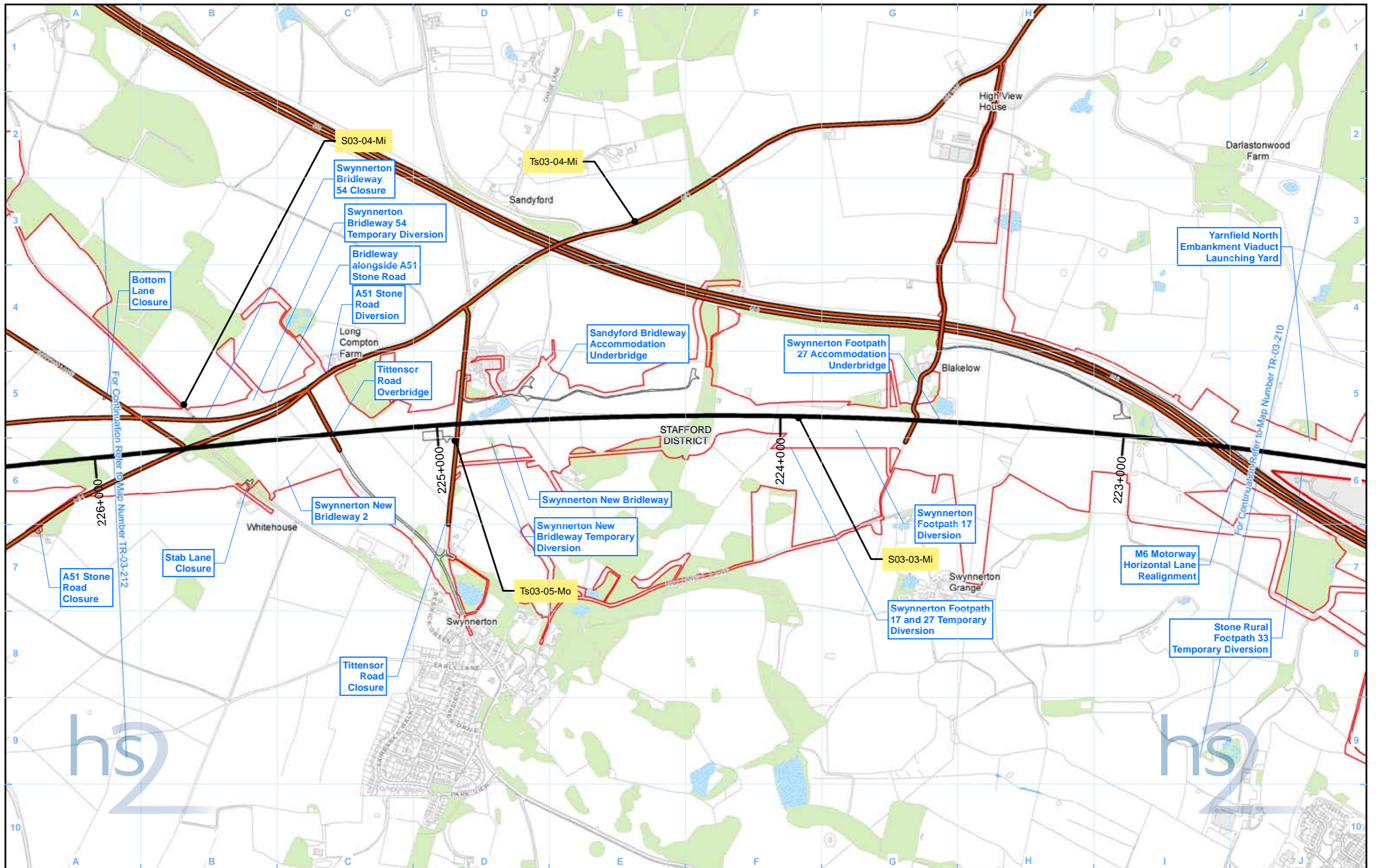
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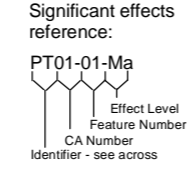
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-211

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

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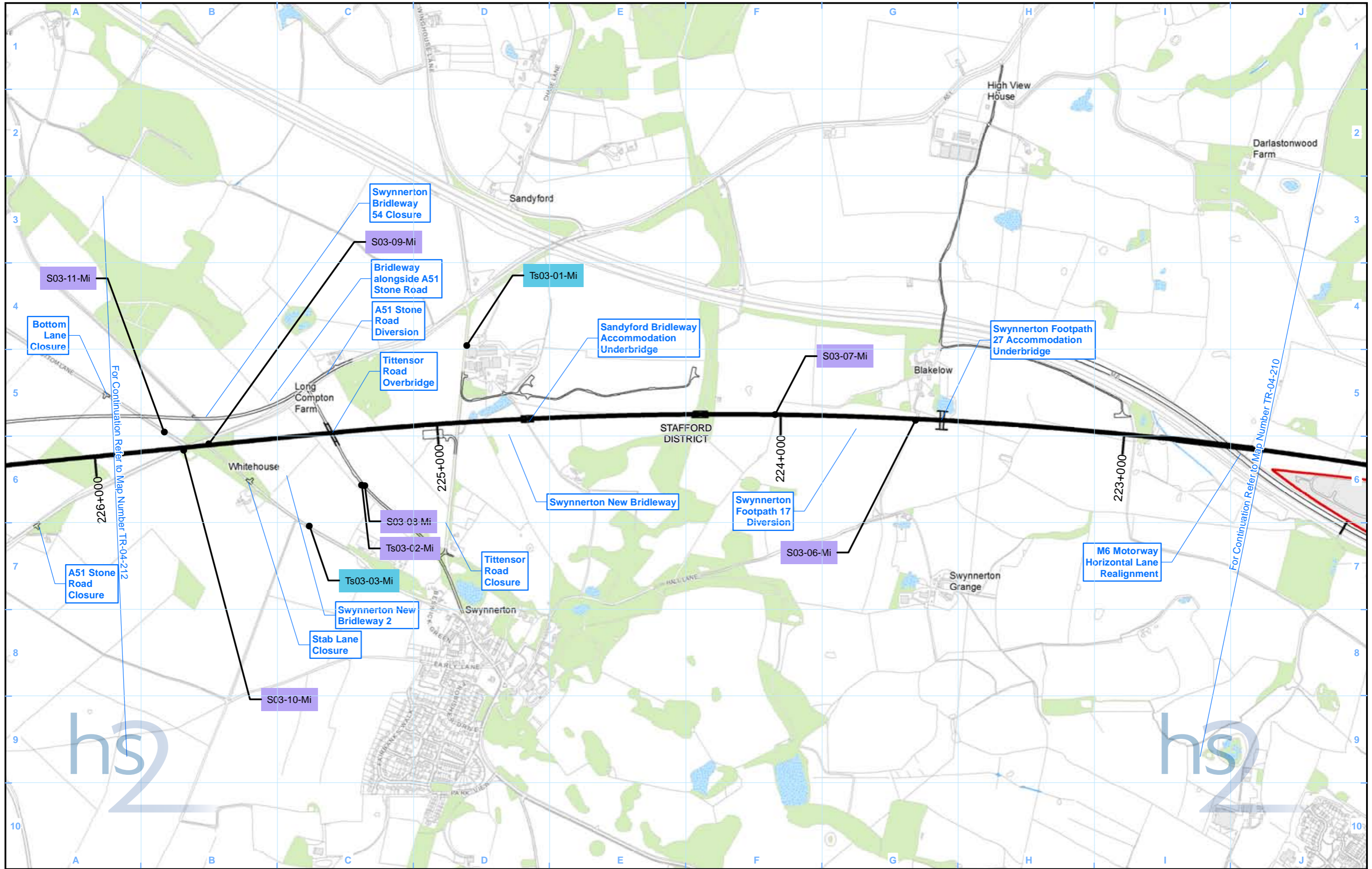
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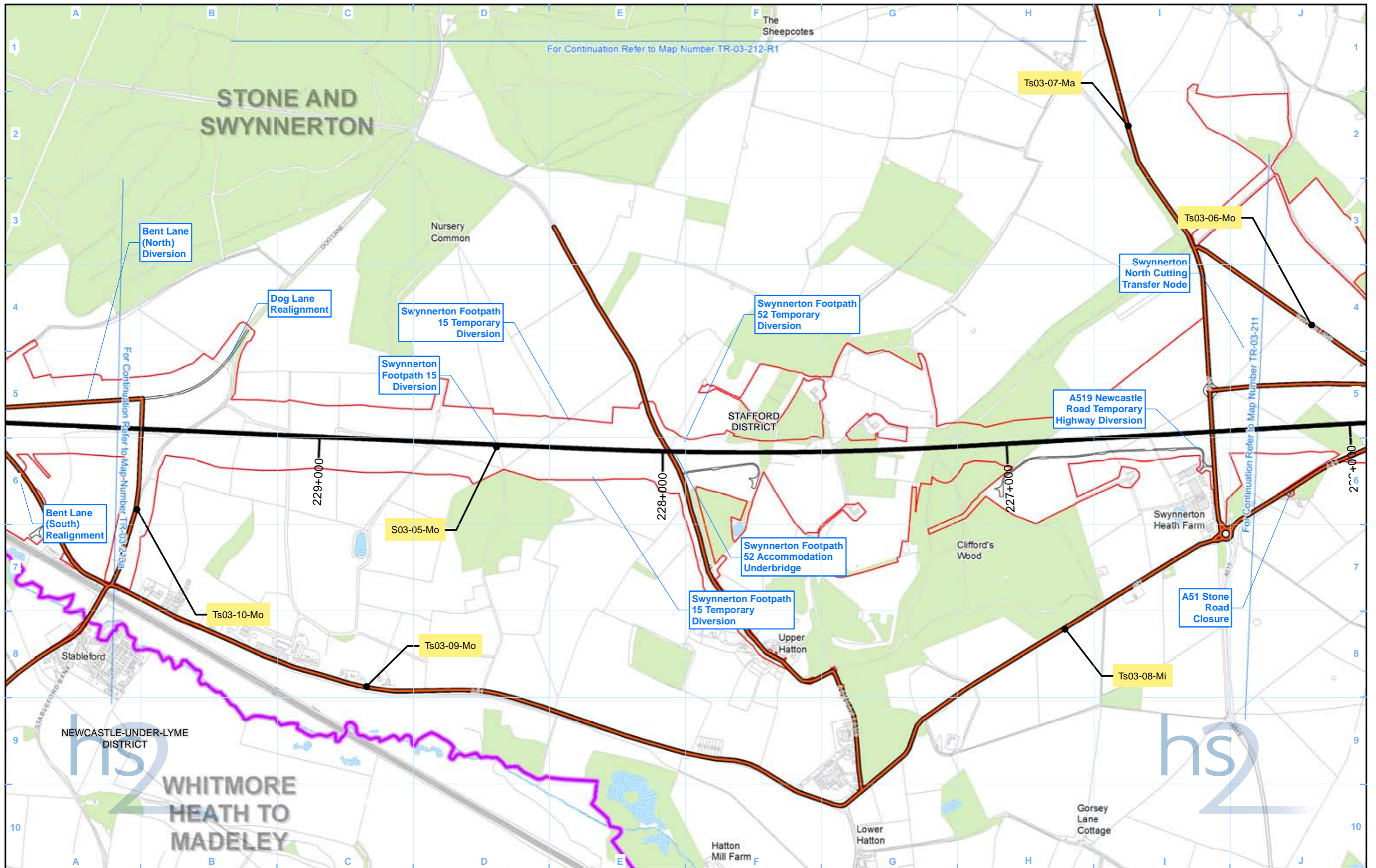
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Doc Number: C861-ARP-EV-MAP-000-143211 P04

Date: 14/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Community area boundary County boundary District/Borough boundary Watercourse Water body Woodland 	<p>Operational Significant Effects</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent 	<p>Significant effect reference:</p> <p>PT01-01-Mi-27</p> <p>Forecast Year</p> <p>Effect Level</p> <p>Feature Number</p> <p>CA Number</p> <p>Identifier - see across</p>	<p>Operational Effects Identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect Level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major <p>Forecast Year:</p> <ul style="list-style-type: none"> 27 - Significant effect in 2027 41 - Significant effect in 2041 Missing - Significant effect in both forecast years 	<p>Map Number: TR-04-211</p> <p>Map Name: Significant Residual Transport Effects Arising from Operation</p> <p>Community Area 3: Stone and Swynnerton</p>	<p>hs2</p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p>Doc Number: C861-ARP-EV-MAP-000-144211 P04</p> <p>Date: 15/06/17</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-212

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

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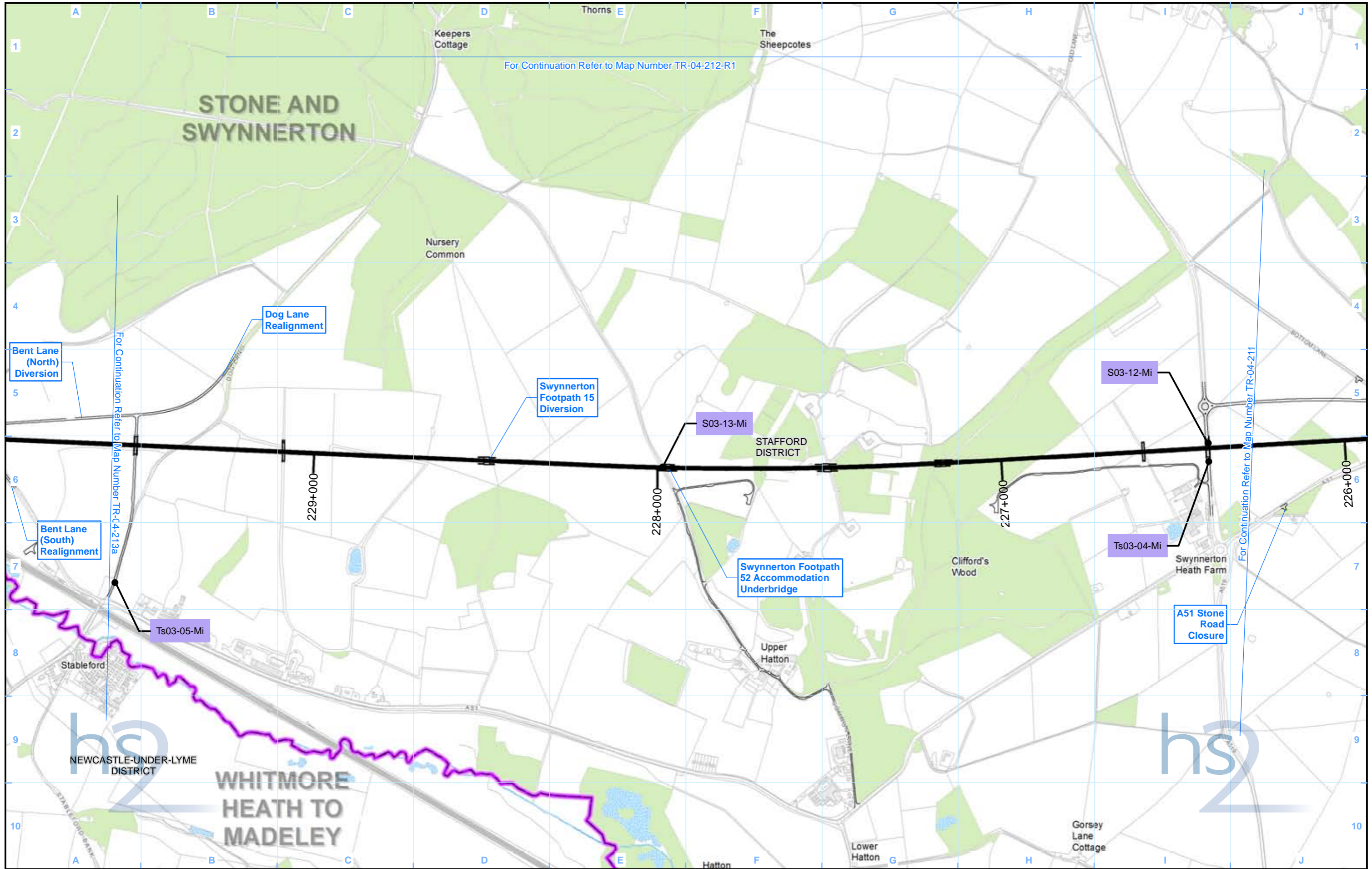
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Date: 14/06/17

Scale at A3: 1:10,000

Metres



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-212

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3:
Stone and Swynnerton

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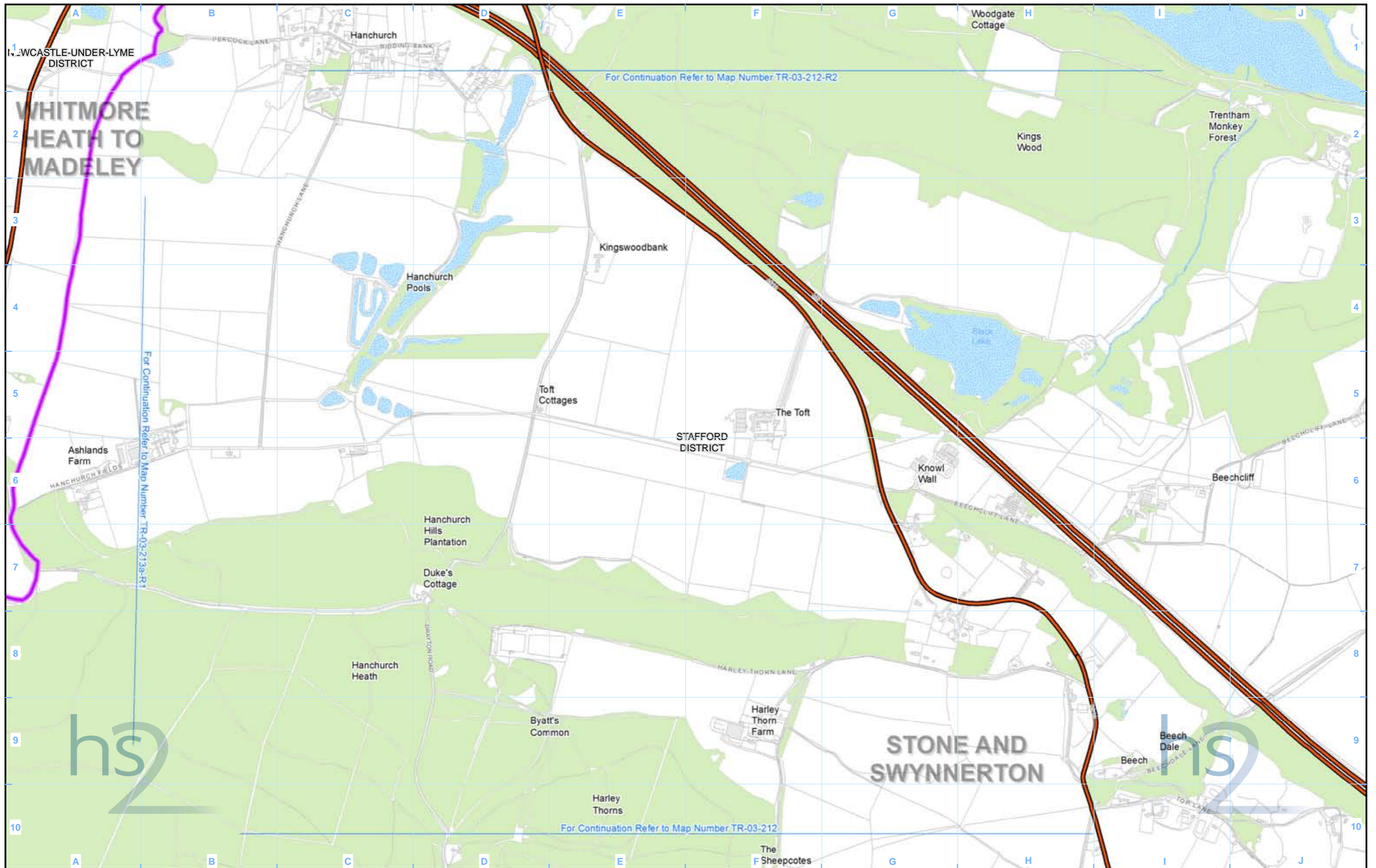
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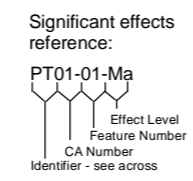
Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-212-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-212-R1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 3: Stone and Swynnerton

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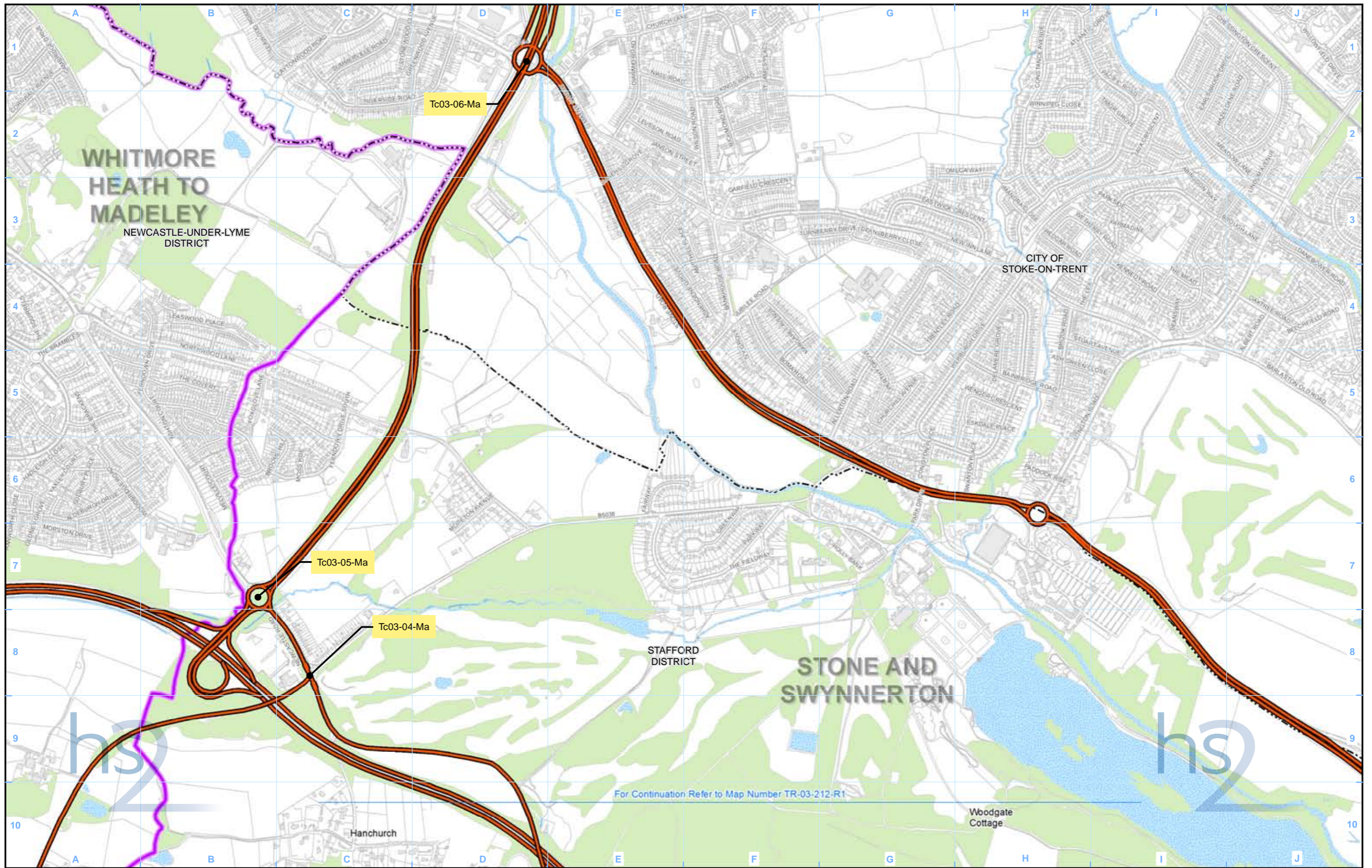
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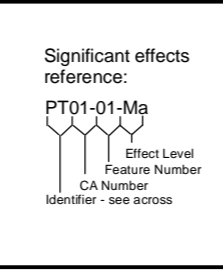
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-212-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

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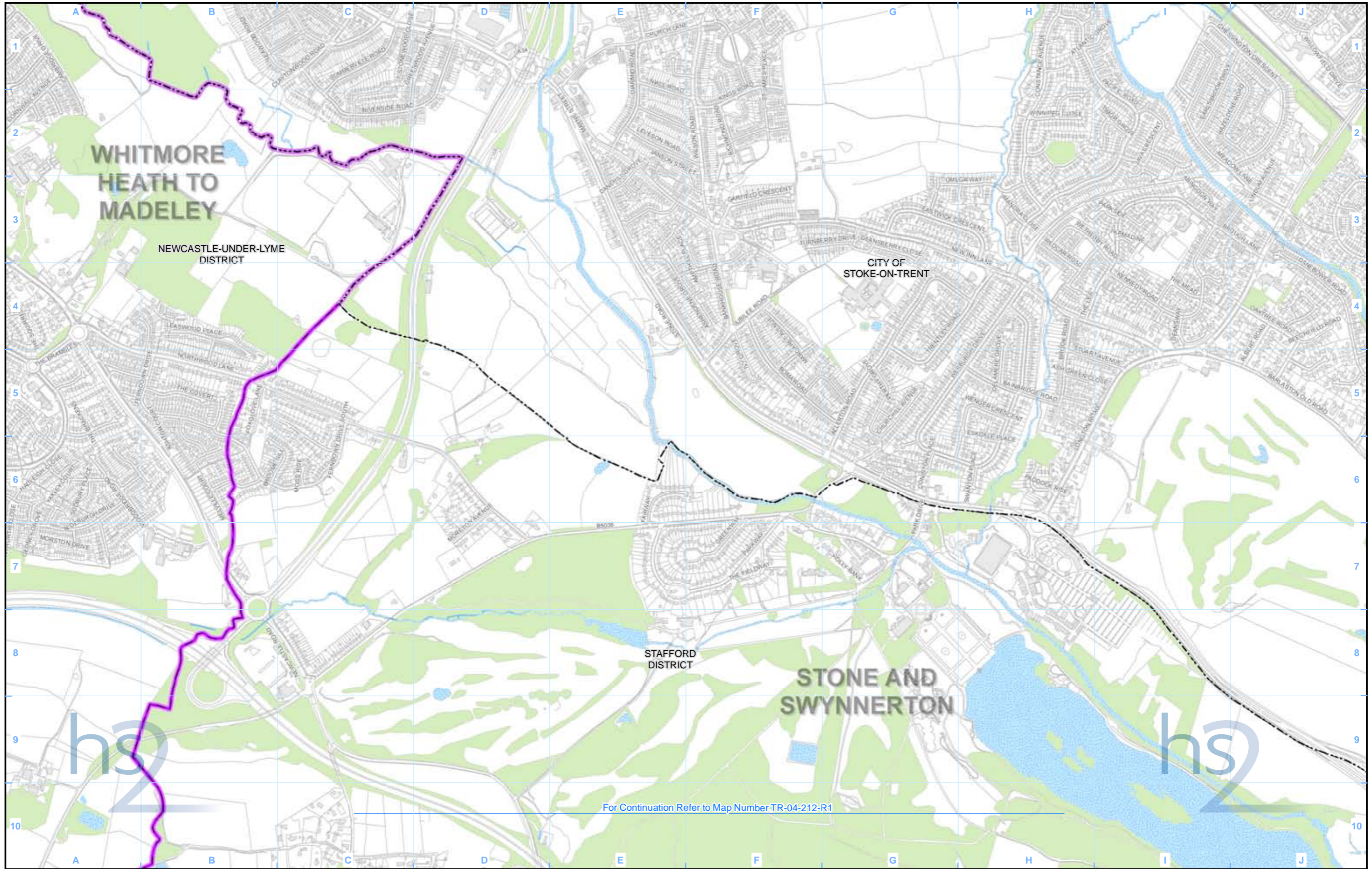
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Date: 15/06/17



For Continuation Refer to Map Number TR-04-212-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-212-R2

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3:
Stone and Swynnerton

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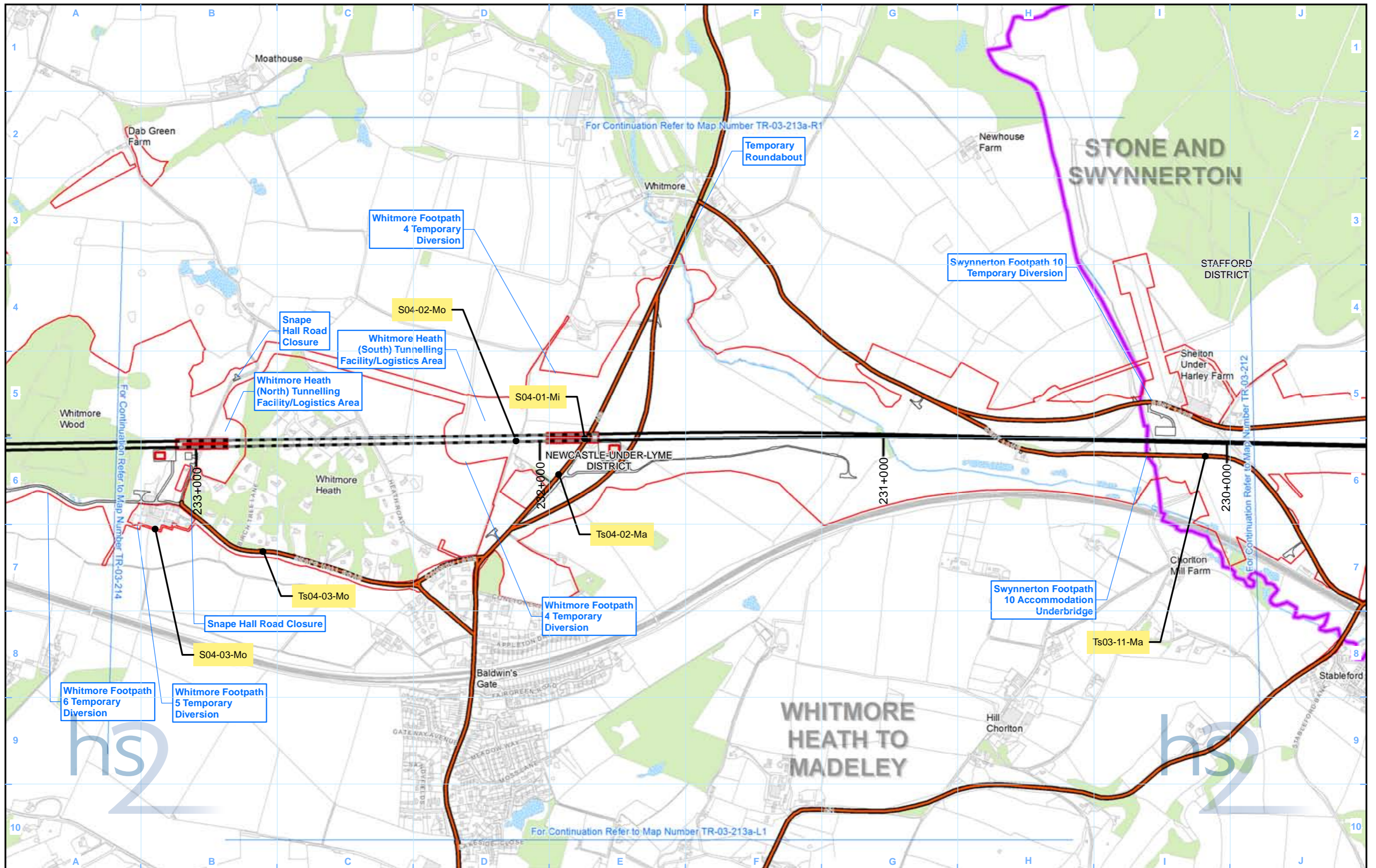
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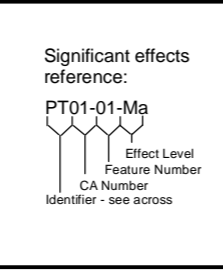
Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-213a

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

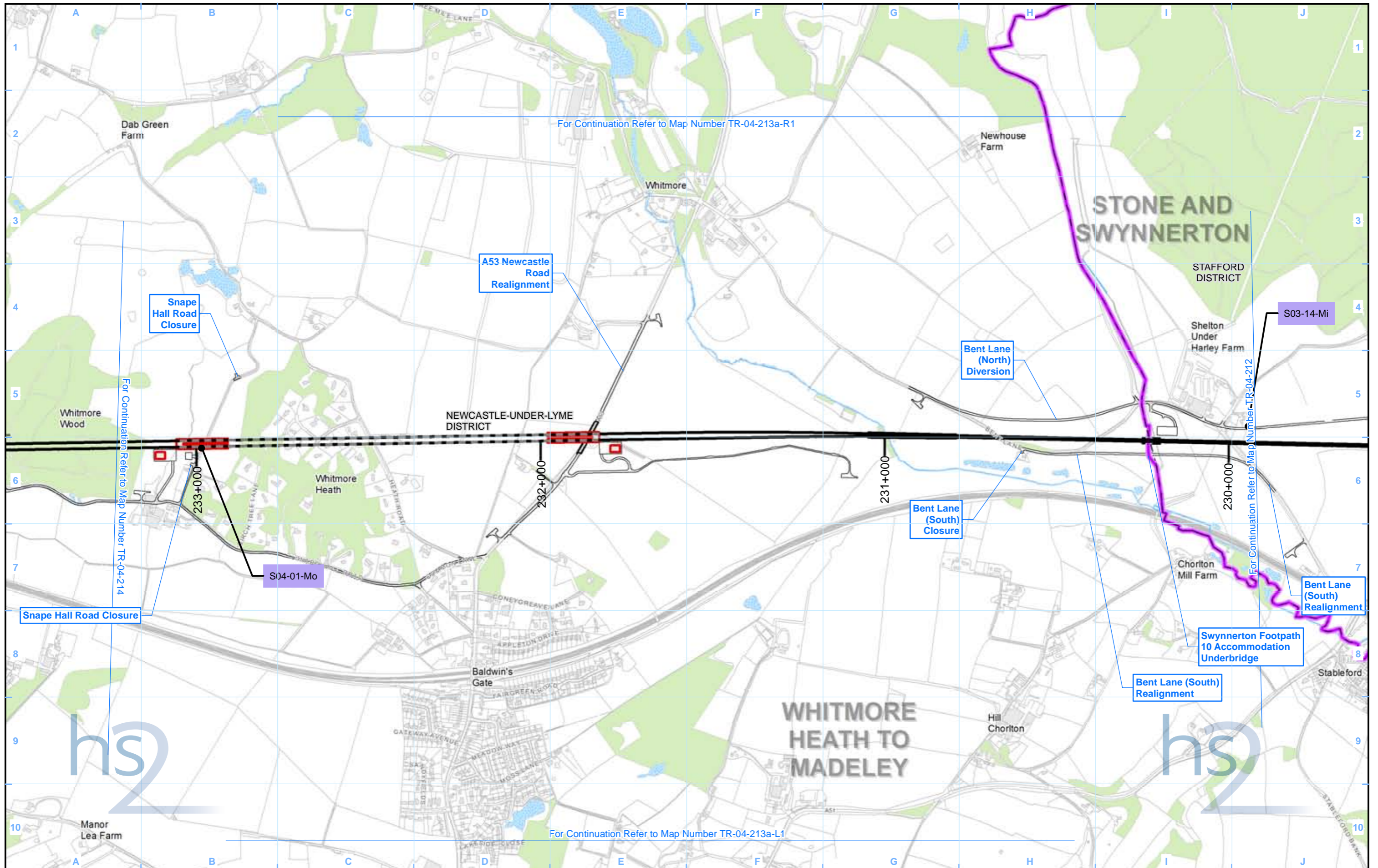
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Doc Number: C861-ARP-EV-MAP-000-143213 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-213a

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3: Stone and Swynnerton

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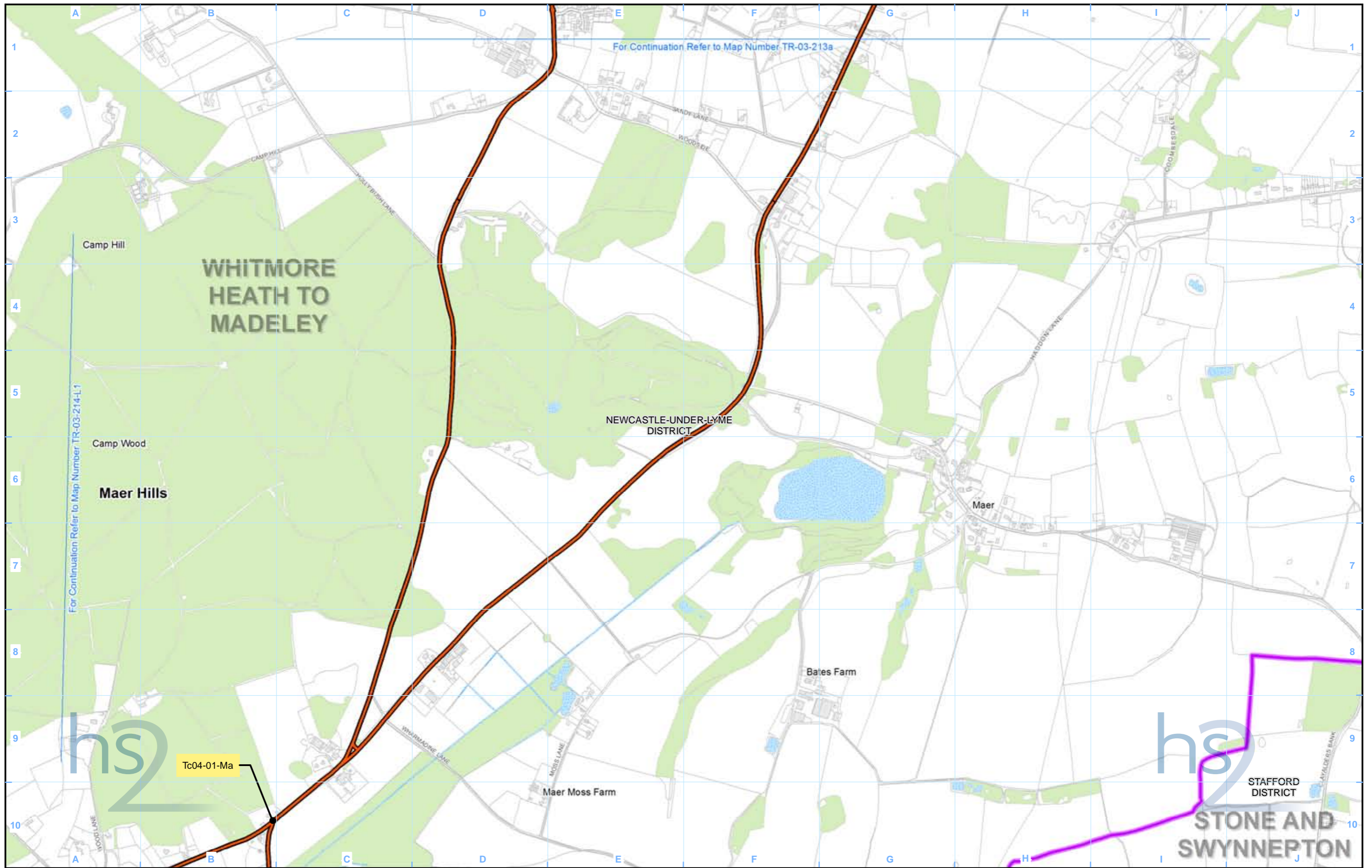
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Date: 15/06/17

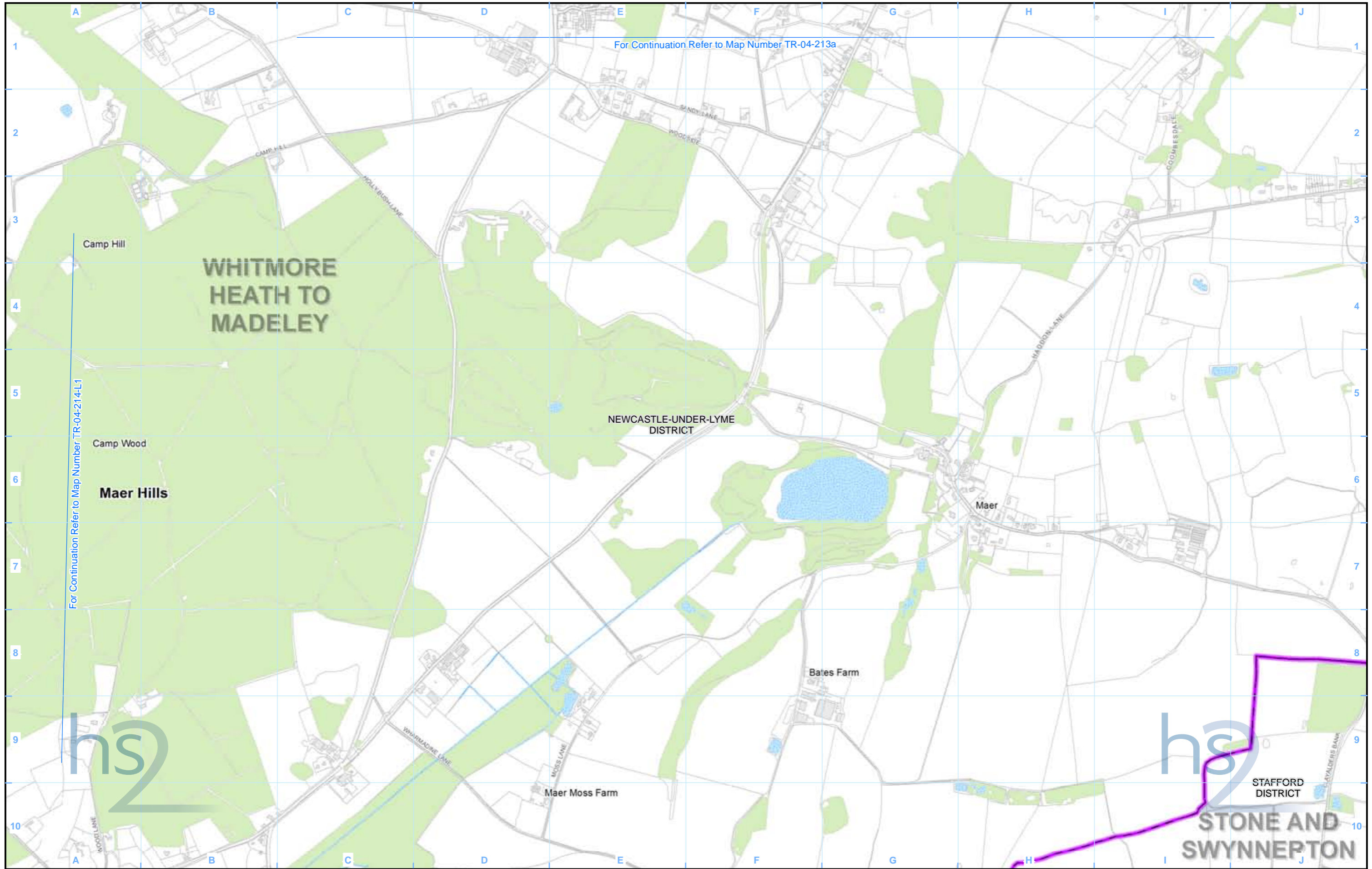


For Continuation Refer to Map Number TR-03-213a

For Continuation Refer to Map Number TR-03-214-L1

<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-213a-L1</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 3: Stone and Swynnerton</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p></p> <p></p> <p>Doc Number: C861-ARP-EV-MAP-000-143313 P04</p> <p>Date: 14/06/17</p>
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For Continuation Refer to Map Number TR-04-213a



For Continuation Refer to Map Number TR-04-214-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-213a-L1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 3: Stone and Swynnerton

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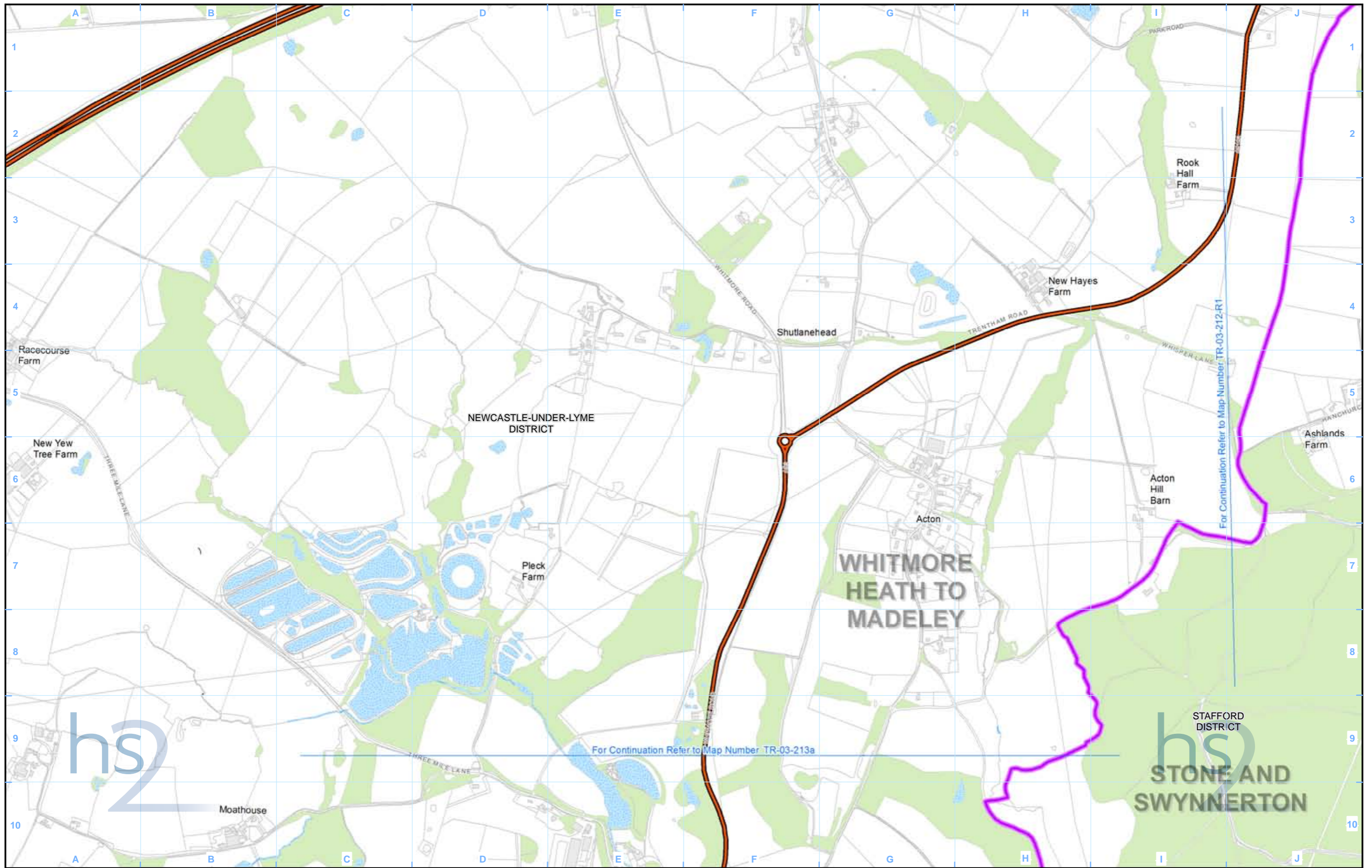
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-213a-R1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 3: Stone and Swynnerton

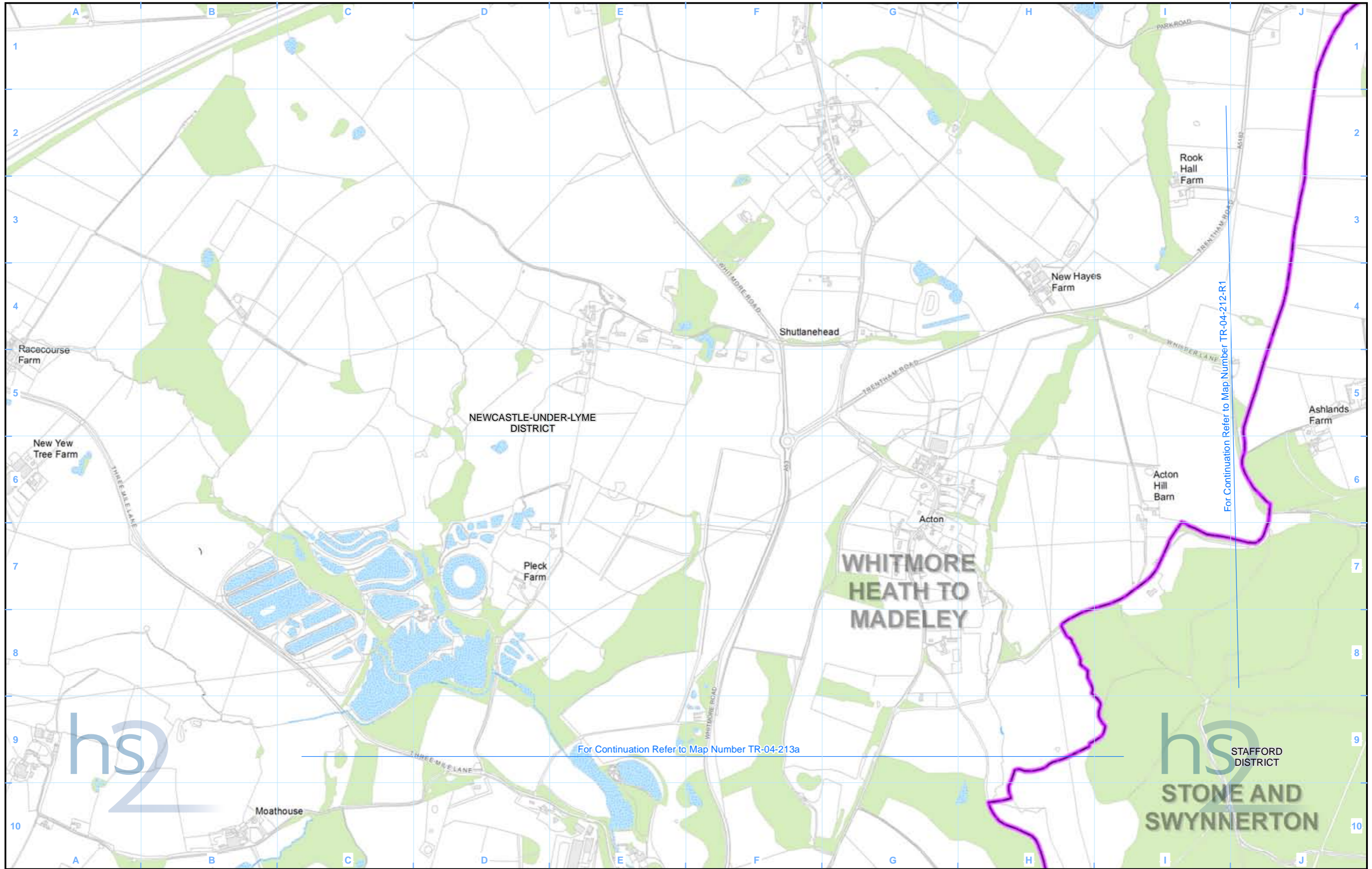
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Date: 15/06/17



For Continuation Refer to Map Number TR-04-212-R1

For Continuation Refer to Map Number TR-04-213a

Legend

		Operational Significant Effects

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number: TR-04-213a-R1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 3:
Stone and Swynnerton

hs2 STAFFORD DISTRICT
STONE AND SWYNNERTON

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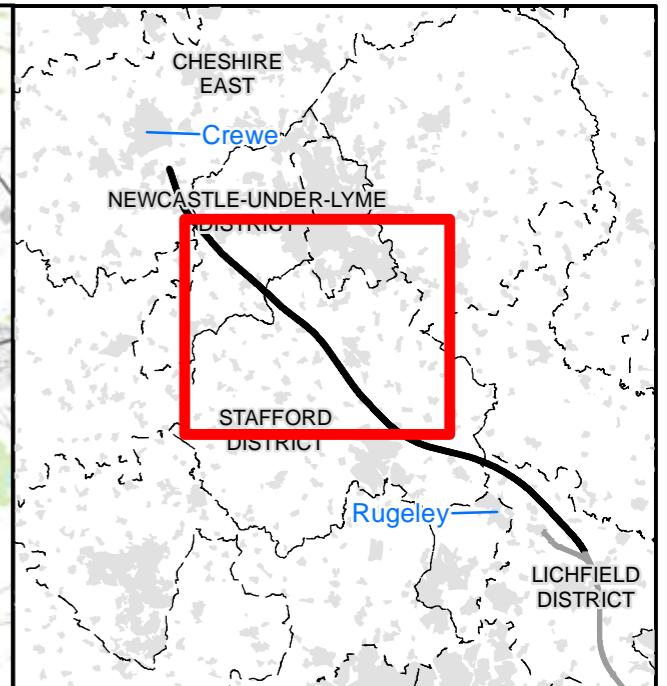
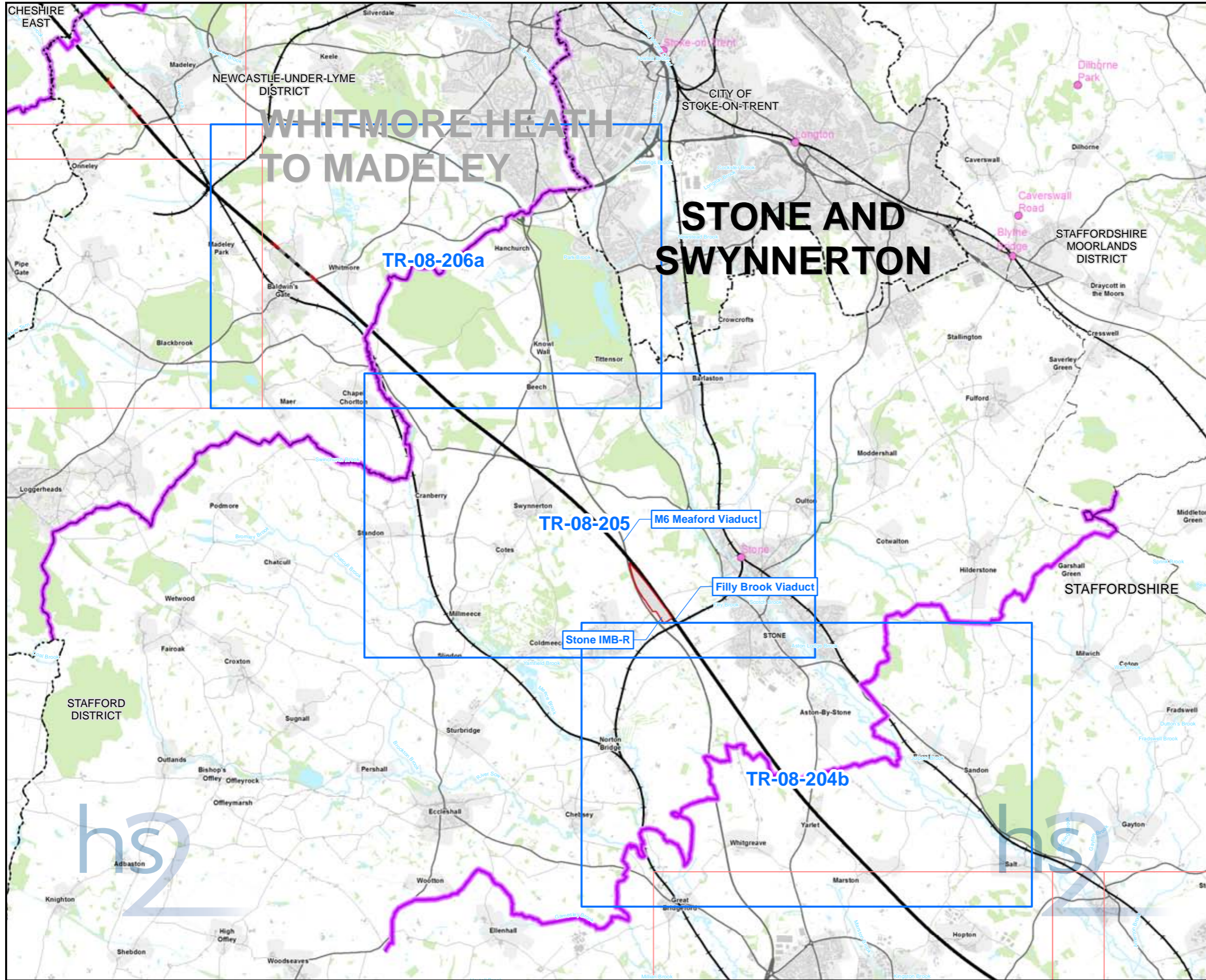
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Date: 15/06/17



Map Series Information:

This map series identifies the main construction access routes for construction compounds and to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.

Main Map Legend	
Route in tunnel	Map sheets included in this community area
Route on surface	Map sheets not included in this community area
Depot, station, headhouse or portal building	Existing railway station
Community area boundary	County boundary
Existing railway station	District/Borough boundary
County boundary	
District/Borough boundary	

Map Number	TR-08-INDEX-CA3
Map Name	Index Map of: Construction Routes to the Strategic Network
	Community Area 3: Stone and Swynnerton

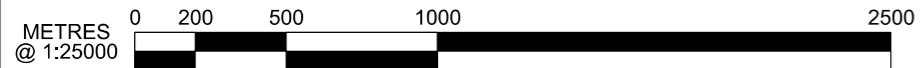
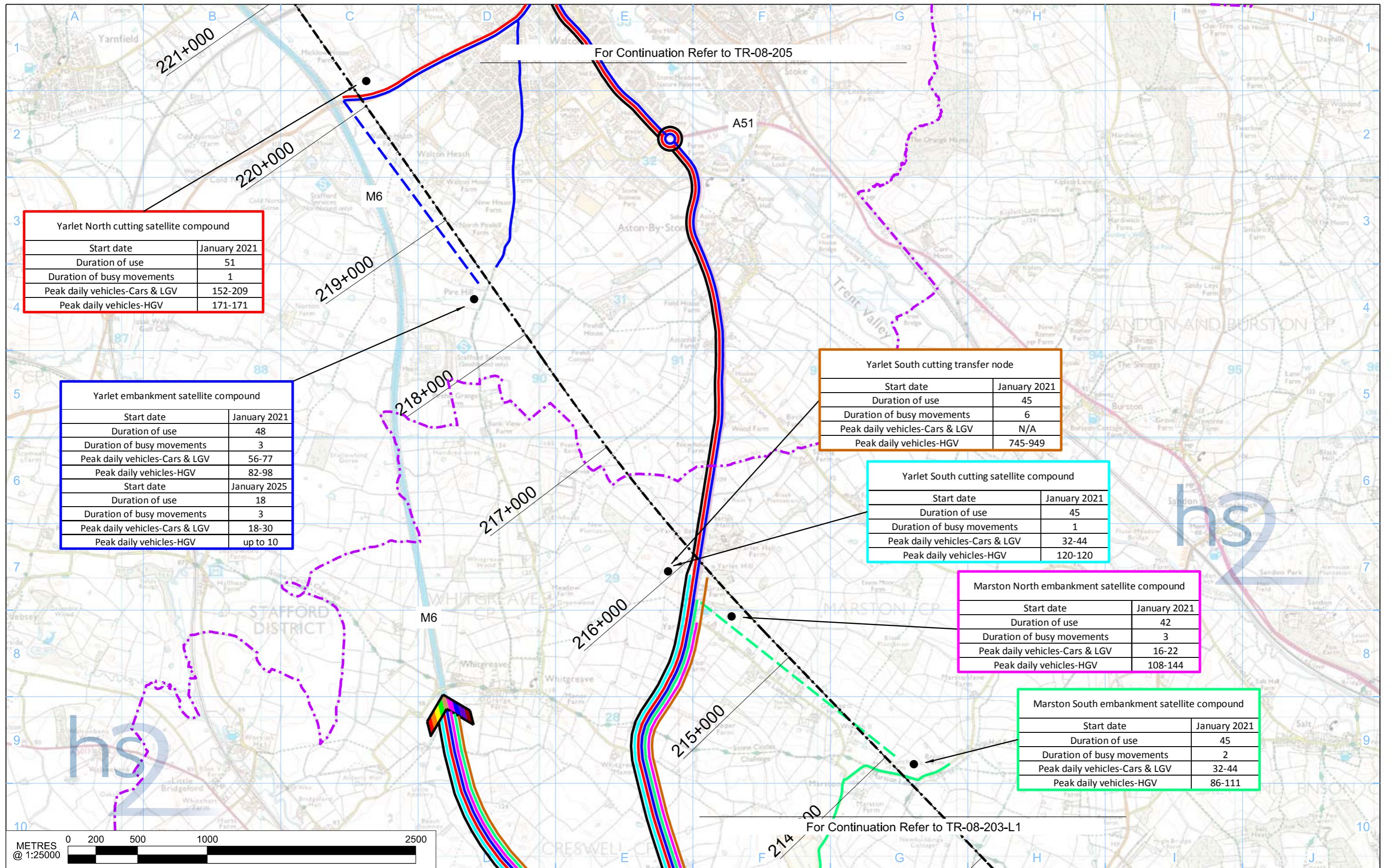
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- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-204b

Map Name
Construction Routes to the Strategic Network

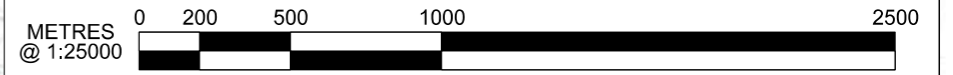
Community Area
CA3 Stone and Swynnerton

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For Continuation Refer to TR-08-206

Swynnerton North cutting transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	5
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	245-299

Swynnerton North cutting main compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	400-550
Peak daily vehicles-HGV	92-103

M6 Meaford viaduct satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	24-33
Peak daily vehicles-HGV	74-95

Hatton South cutting satellite compound	
Start date	January 2021
Duration of use	48
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	48-66
Peak daily vehicles-HGV	87-110

Yarnfield North embankment transfer node	
Start date	January 2021
Duration of use	51
Duration of busy movements	12
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	935-1185

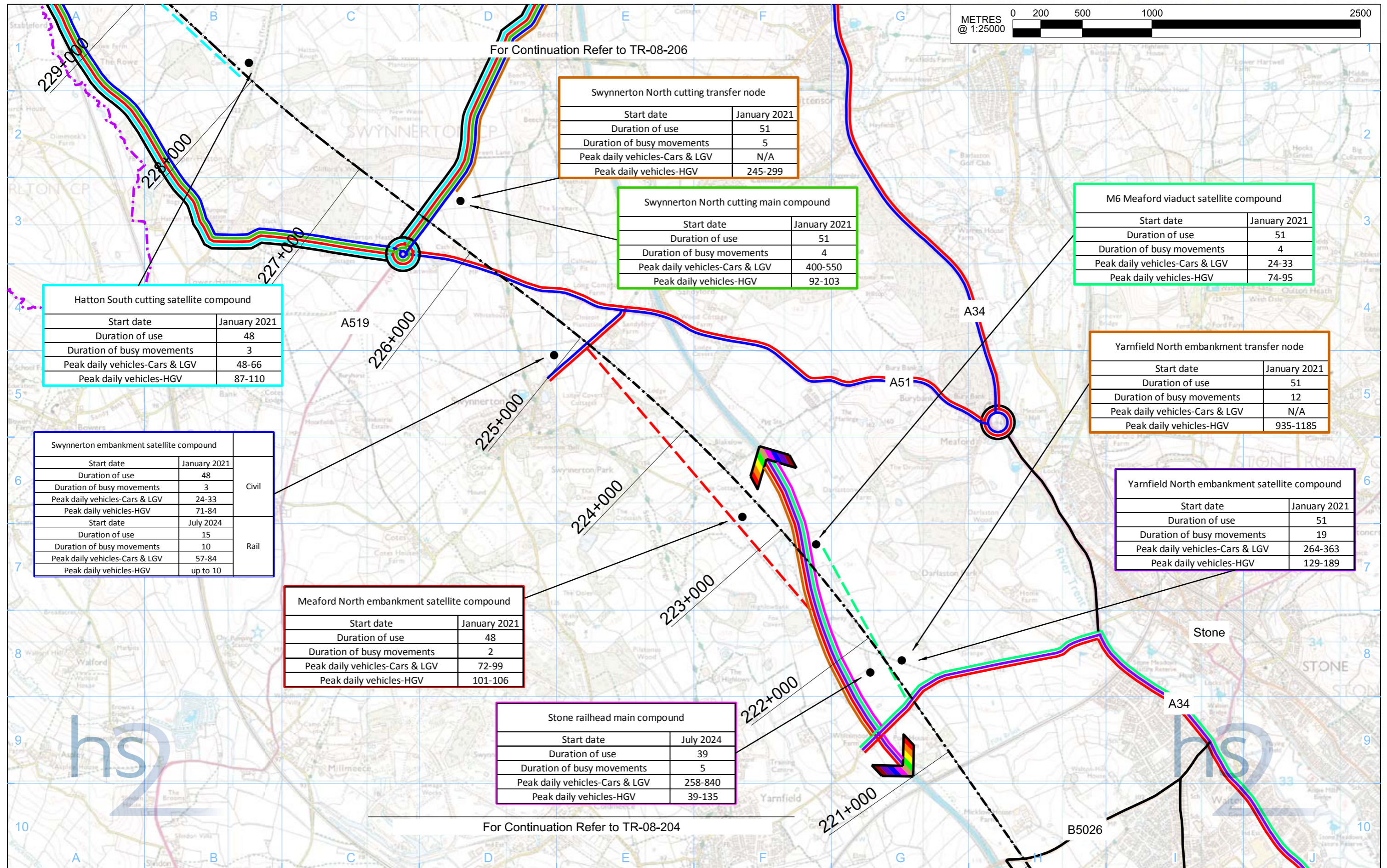
Swynnerton embankment satellite compound		
Start date	January 2021	Civil
Duration of use	48	
Duration of busy movements	3	
Peak daily vehicles-Cars & LGV	24-33	
Start date	July 2024	Rail
Duration of use	15	
Duration of busy movements	10	
Peak daily vehicles-Cars & LGV	57-84	
Peak daily vehicles-HGV	up to 10	

Yarnfield North embankment satellite compound	
Start date	January 2021
Duration of use	51
Duration of busy movements	19
Peak daily vehicles-Cars & LGV	264-363
Peak daily vehicles-HGV	129-189

Meaford North embankment satellite compound	
Start date	January 2021
Duration of use	48
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	72-99
Peak daily vehicles-HGV	101-106

Stone railhead main compound	
Start date	July 2024
Duration of use	39
Duration of busy movements	5
Peak daily vehicles-Cars & LGV	258-840
Peak daily vehicles-HGV	39-135

For Continuation Refer to TR-08-204



Legend

- Compound Traffic Routes
- Site Haul to Compound
- Through Construction Traffic Routes (To/From Other Scheme Compounds)
- HS2 Route
- Onward Construction Routes
- Community Area boundary
- Through Site Haul to Compound (To/From Other Scheme Compounds)
- Movement of Excavated Material
- Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: **TR-08-205**

Map Name: **Construction Routes to the Strategic Network**

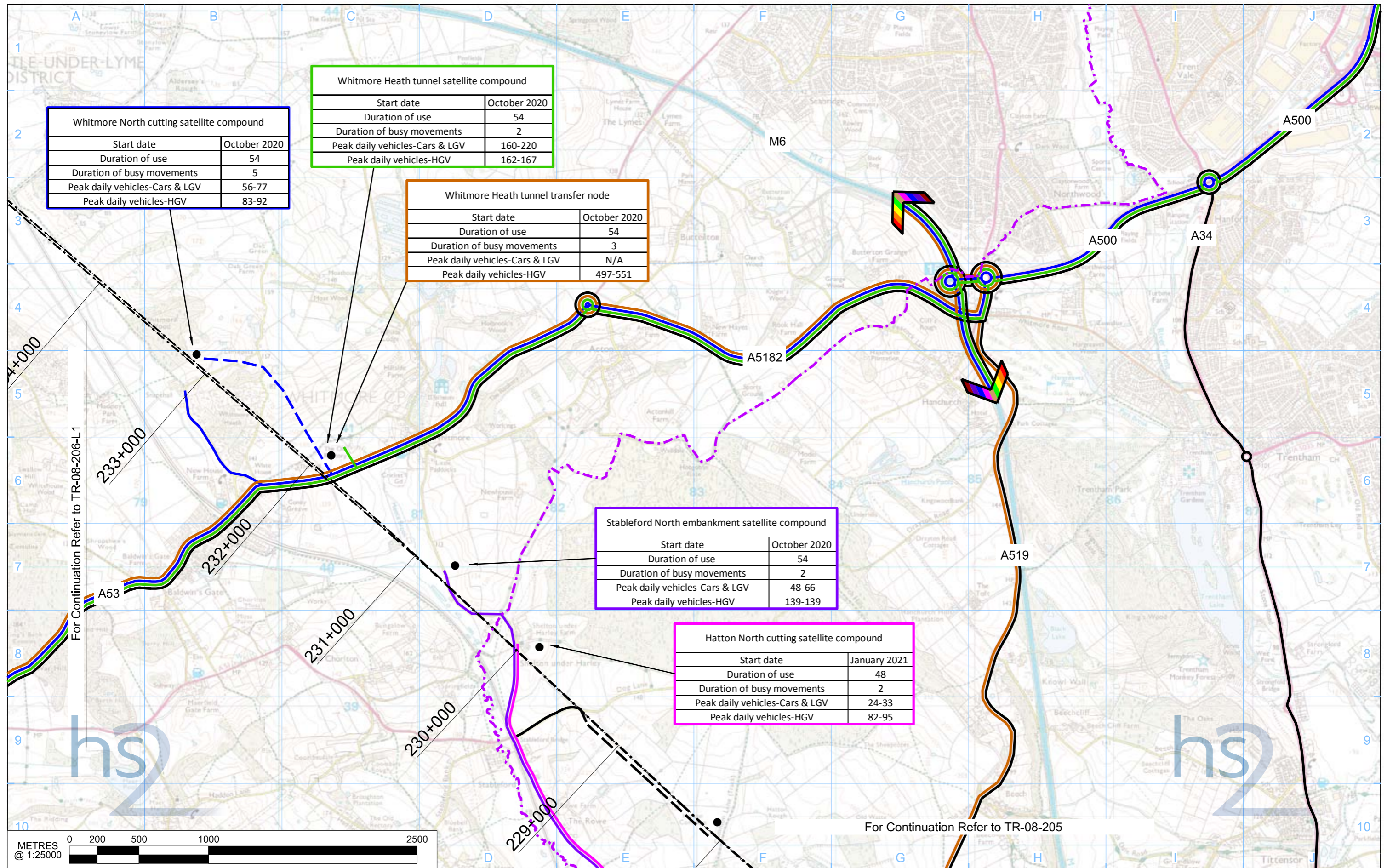
Community Area: CA3 Stone and Swynnerton

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For Continuation Refer to TR-08-206-L1

For Continuation Refer to TR-08-205



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: TR-08-206a

Map Name: Construction Routes to the Strategic Network

Community Area: CA3 Stone and Swynnerton

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High Speed Rail (West Midlands-Crewe)

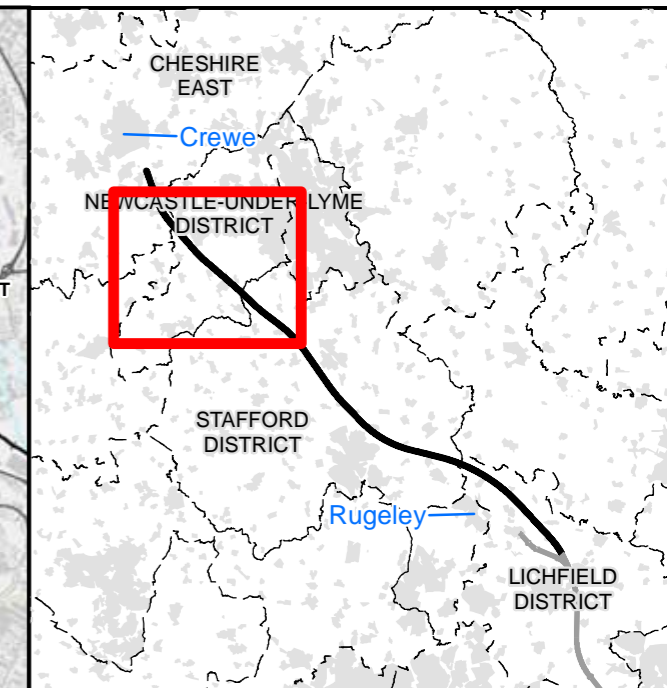
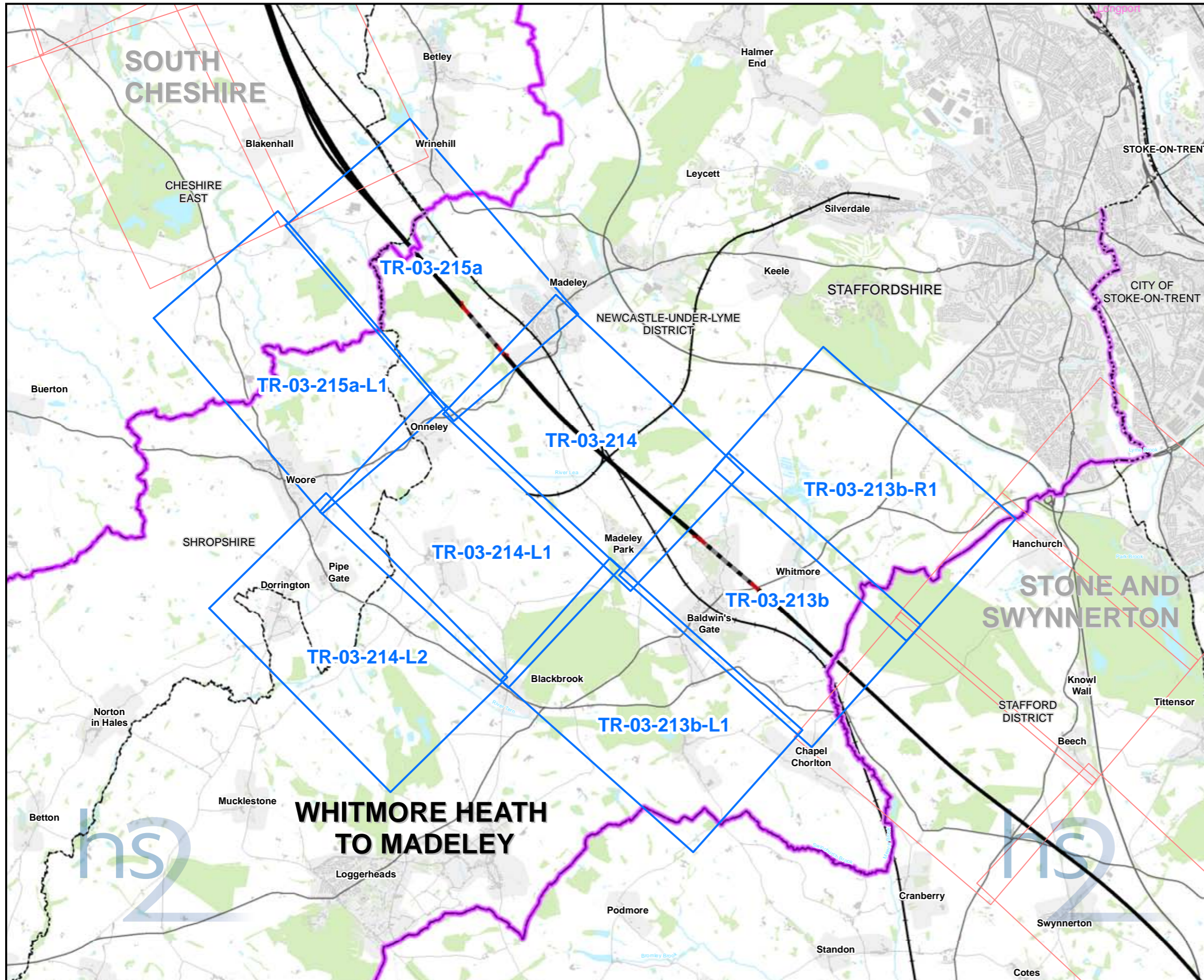
Environmental Statement

CA4 Whitmore Heath to Madeley

**TR-03 - Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes**

TR-04 - Significant Residual Transport Effects Arising from Operation

TR-08 - Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	TR-03-INDEX-CA4
Map Name	Index Map of: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes
	Community Area 4: Whitmore Heath to Madeley

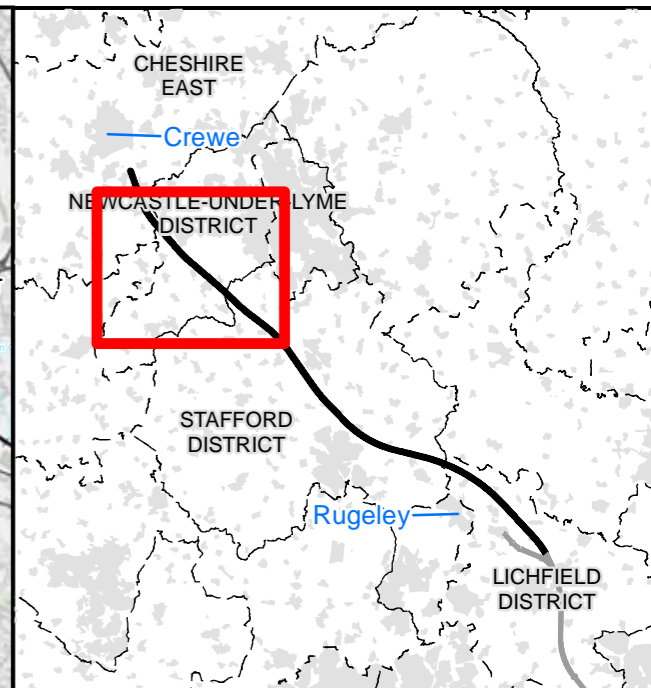
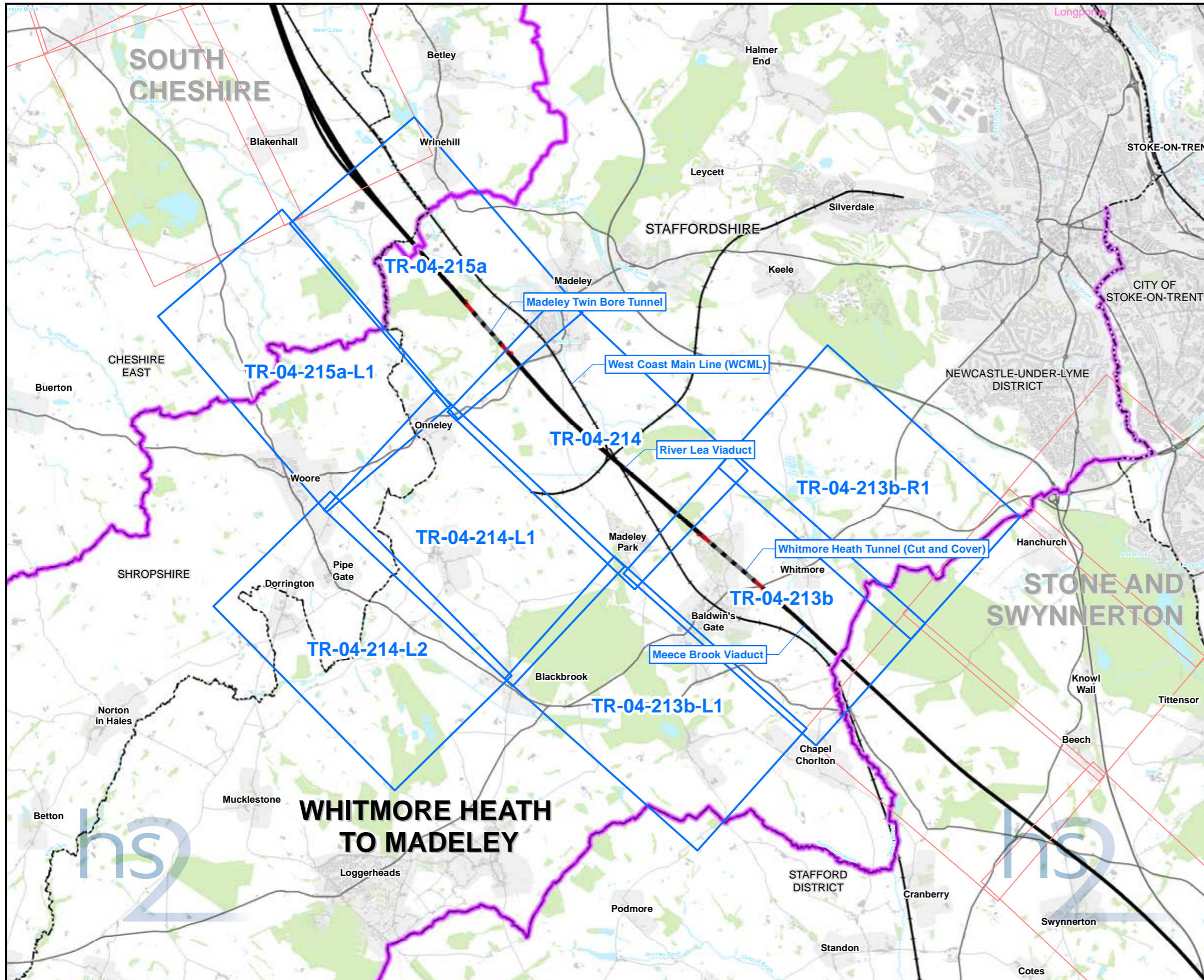
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Doc Number: C861-ARP-EV-MAP-000-143004 - P04 **Date: 13/06/17**



Map Series Information:

Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	TR-04-INDEX-CA4
Map Name	Index Map of: Significant Residual Transport Effects Arising from Operation
	Community Area 4: Whitmore Heath to Madeley

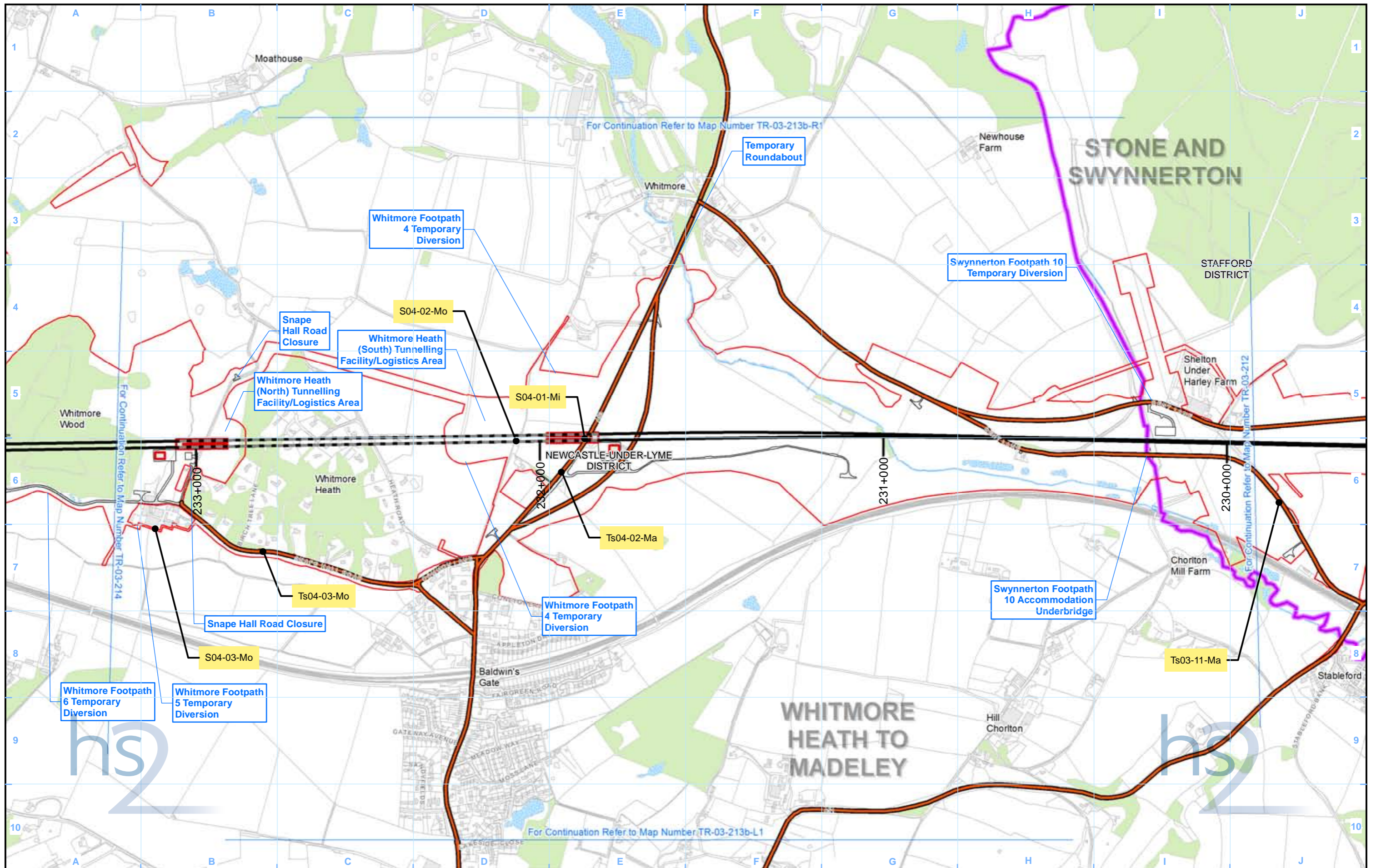
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Doc Number: C861-ARP-EV-MAP-000-144004 - P04 **Date: 14/06/17**



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-213b

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

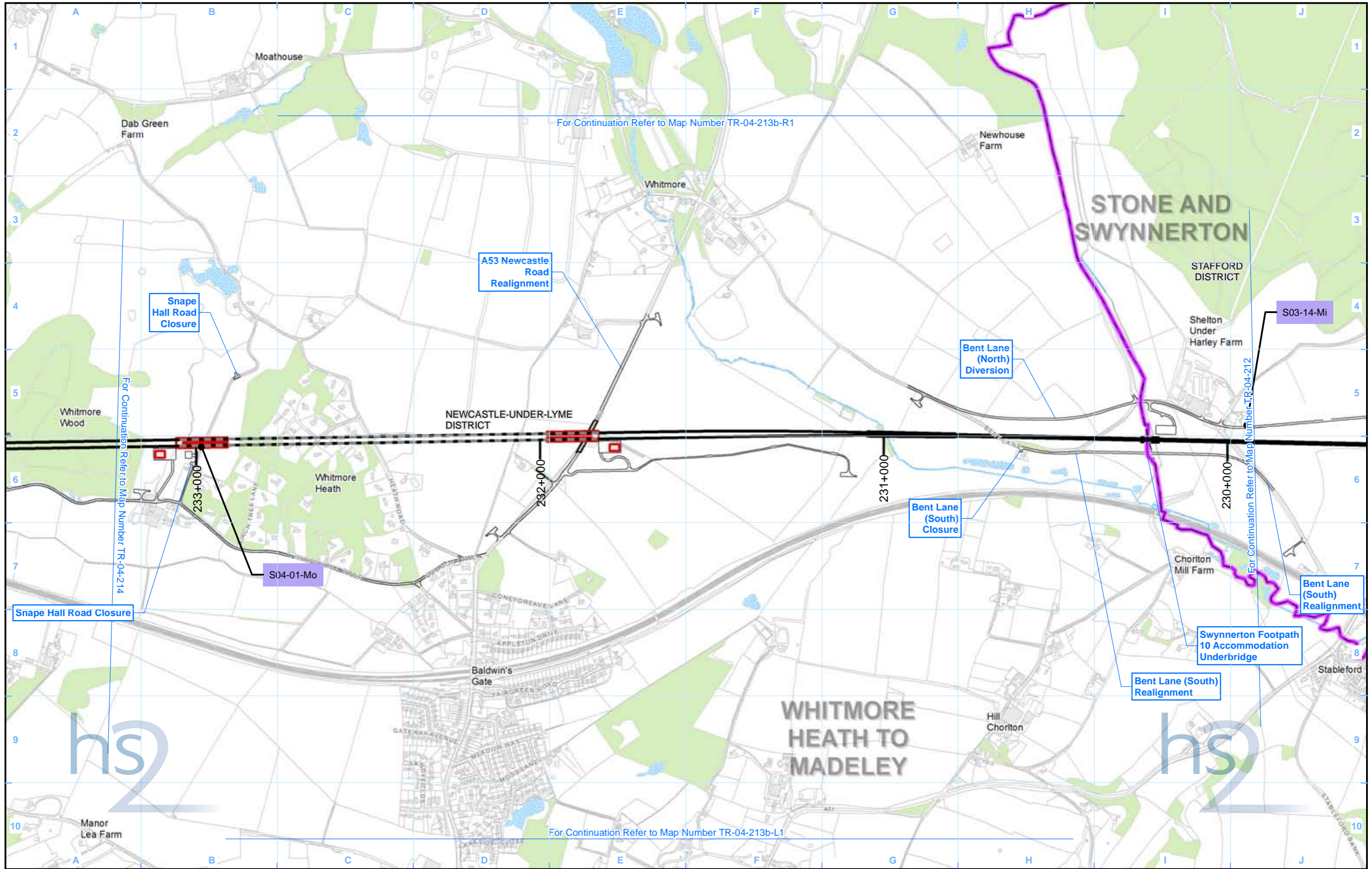
Community Area 4:
Whitmore Heath to Madeley

Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.

Scale at A3: 1:10,000

Doc Number: C861-ARP-EV-MAP-000-143513 P04

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-213b

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 4: Whitmore Heath to Madeley

hs2

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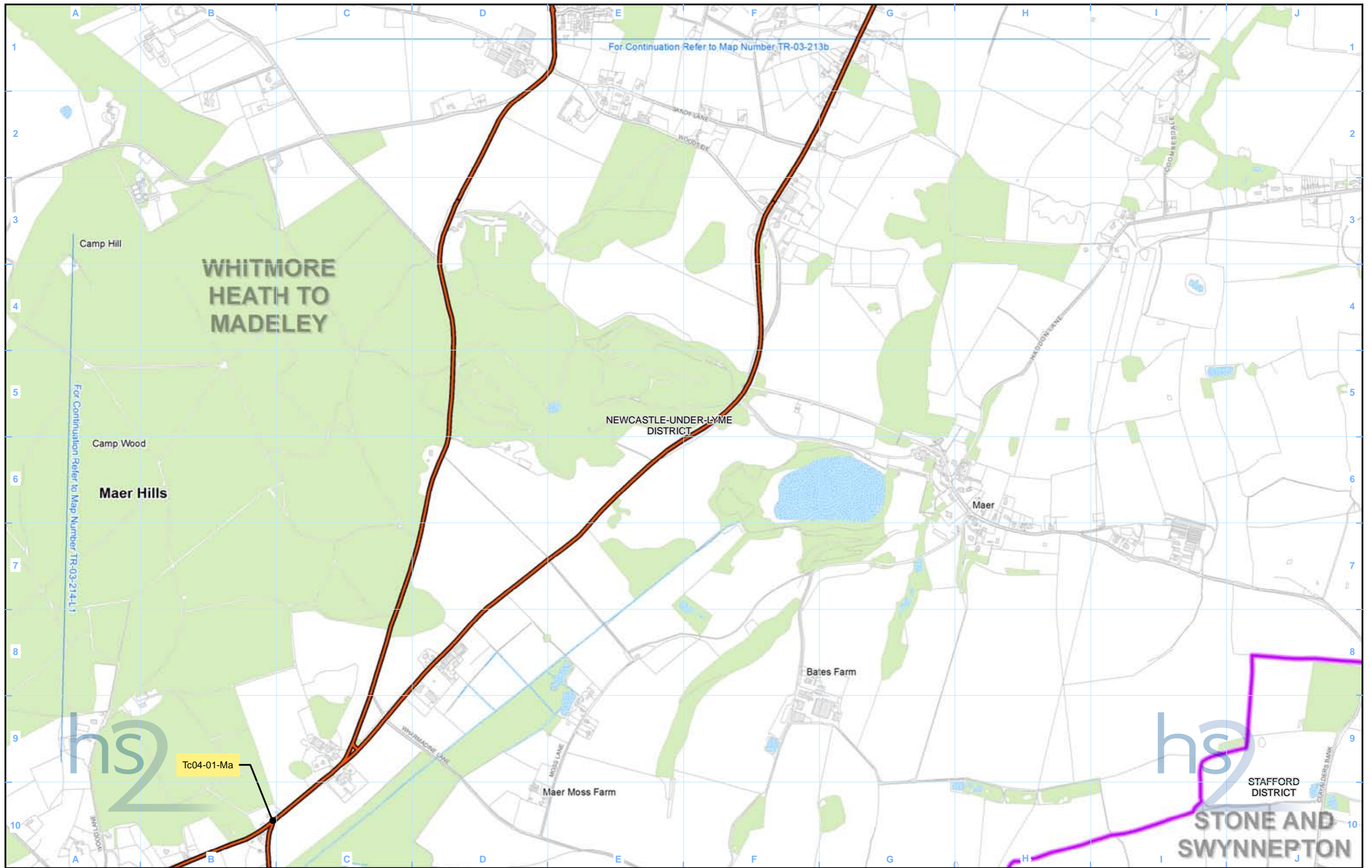
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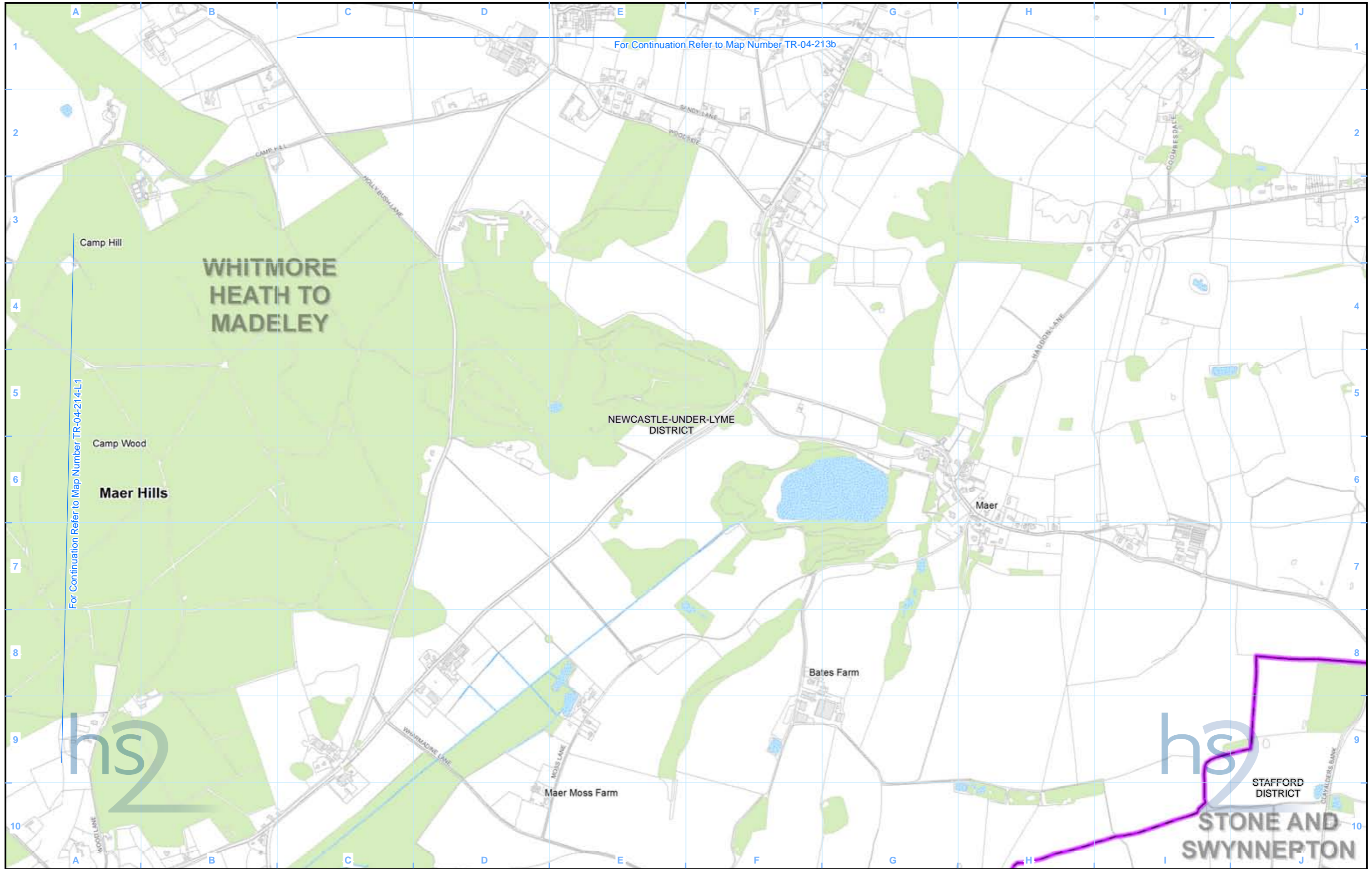


For Continuation Refer to Map Number TR-03-213b

For Continuation Refer to Map Number TR-03-214-L1

<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-213b-L1</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 4: Whitmore Heath to Madeley</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p></p> <p>Doc Number: C861-ARP-EV-MAP-000-143613 P04</p> <p>Date: 14/06/17</p>
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For Continuation Refer to Map Number TR-04-213b



For Continuation Refer to Map Number TR-04-214-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number **TR-04-213b-L1**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 4:
Whitmore Heath to Madeley

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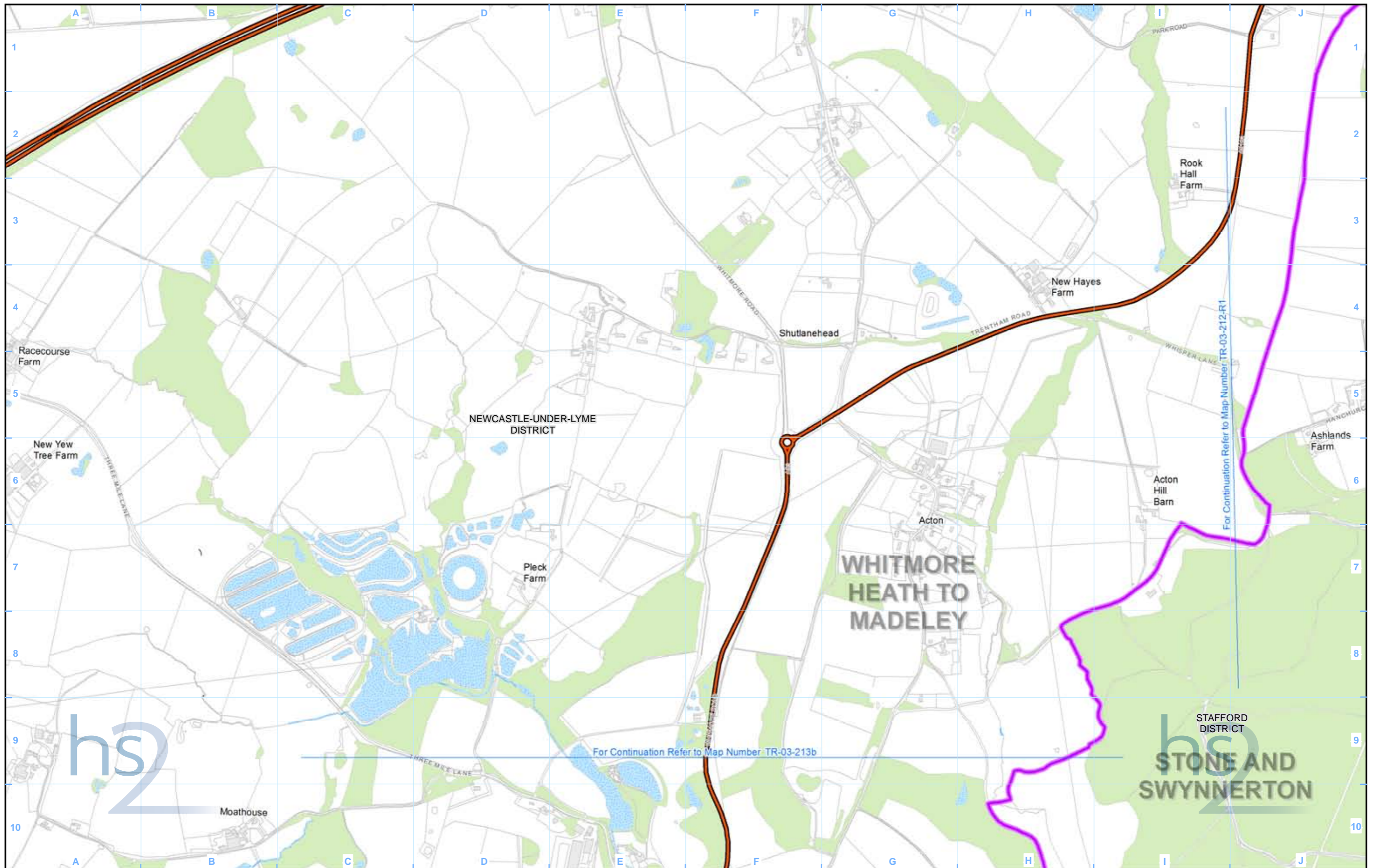
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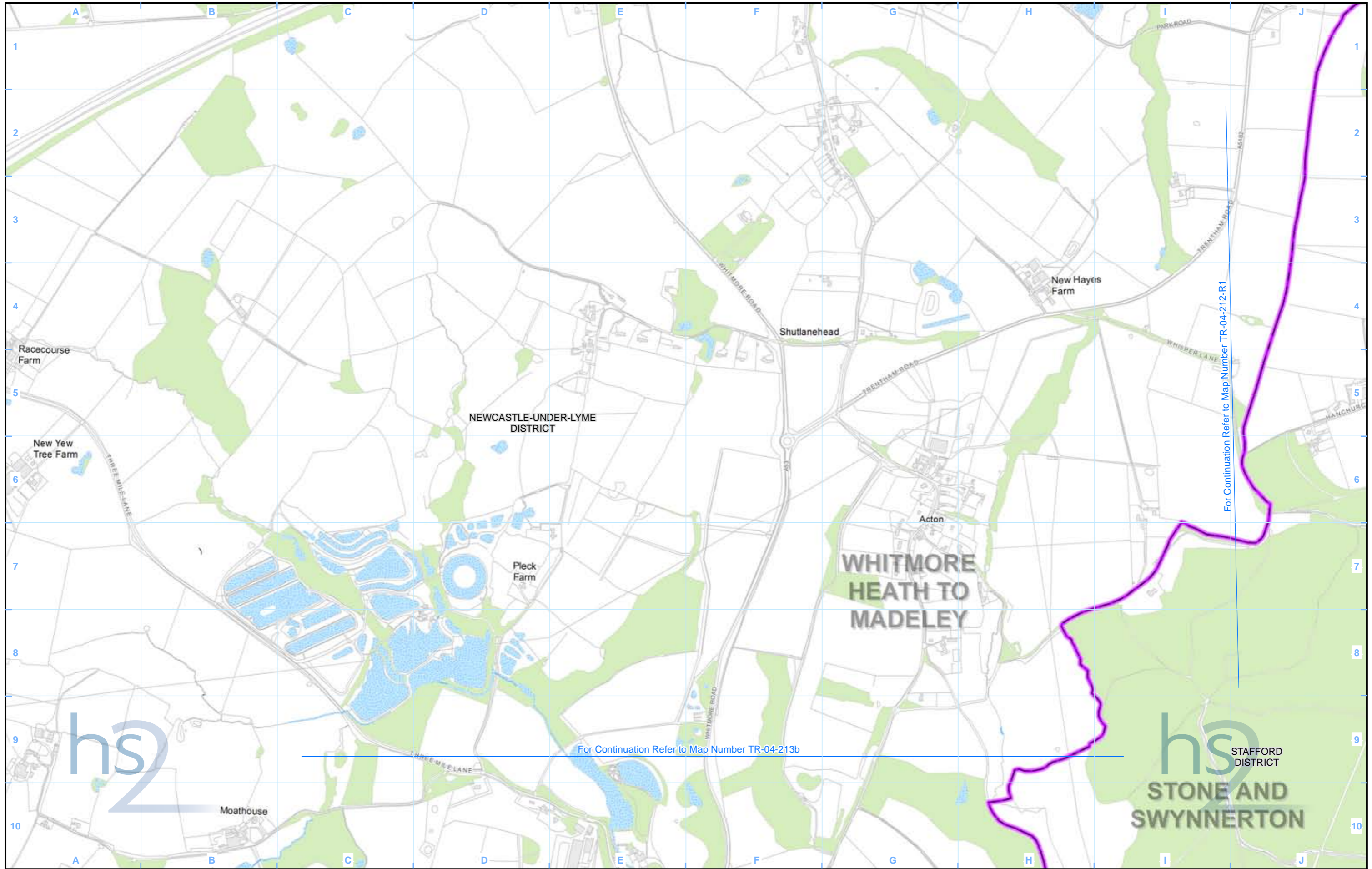
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Doc Number: C861-ARP-EV-MAP-000-144613 P04

Date: 15/06/17



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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-213b-R1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 4:
Whitmore Heath to Madeley

hs STAFFORD DISTRICT

STONE AND SWYNNERTON

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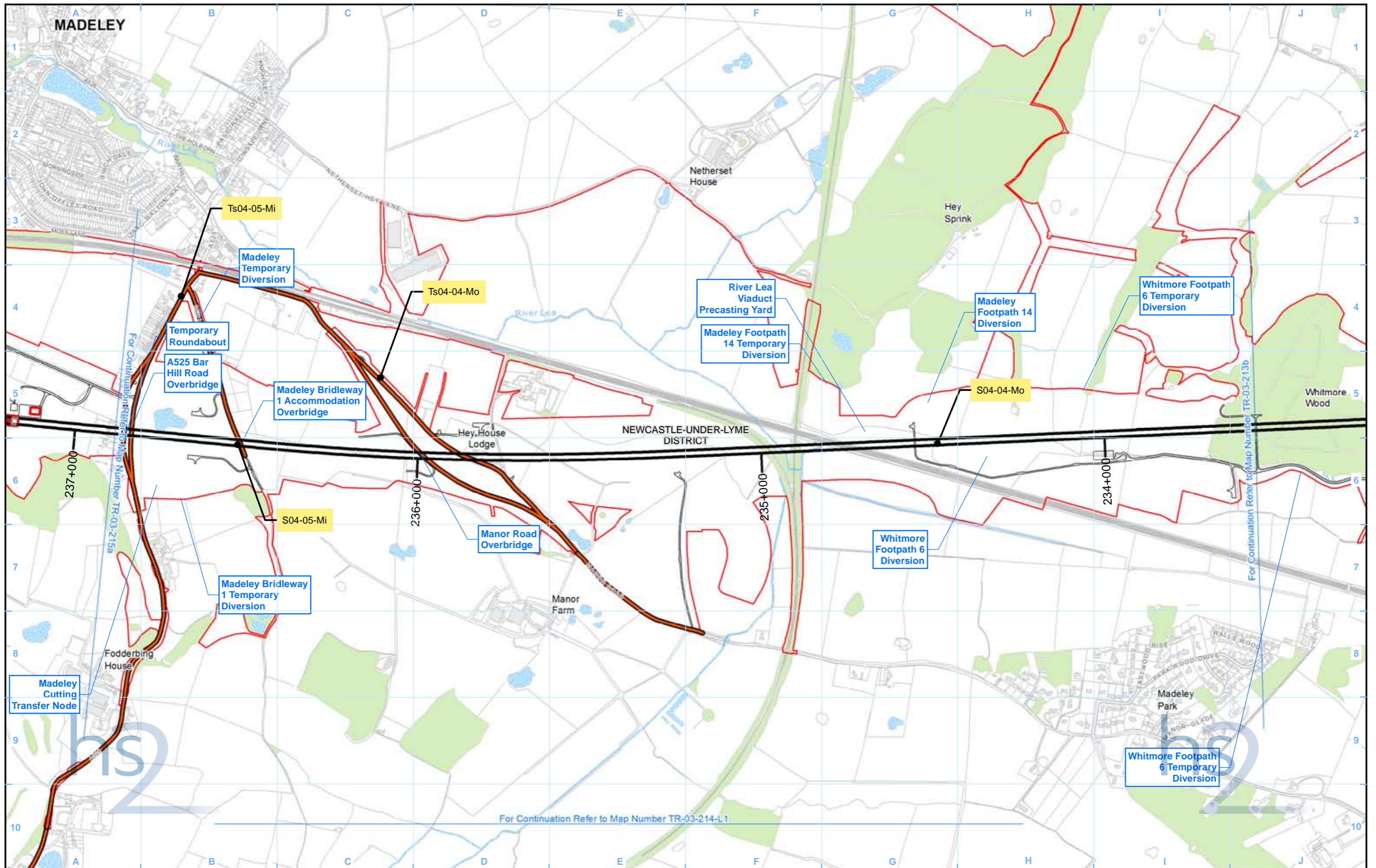
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Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-214

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 4: Whitmore Heath to Madeley

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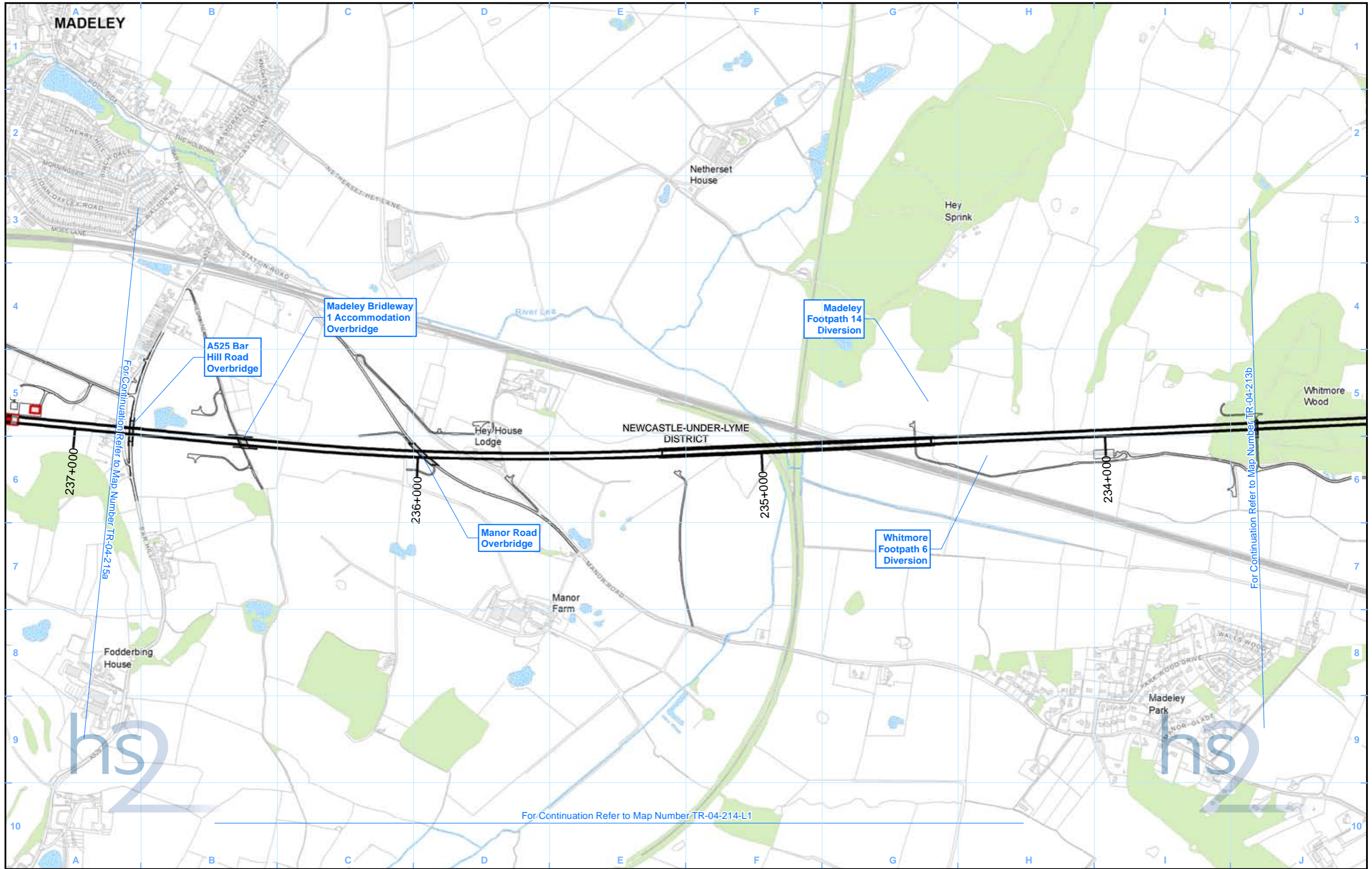
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Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-214

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 4:
Whitmore Heath to Madeley

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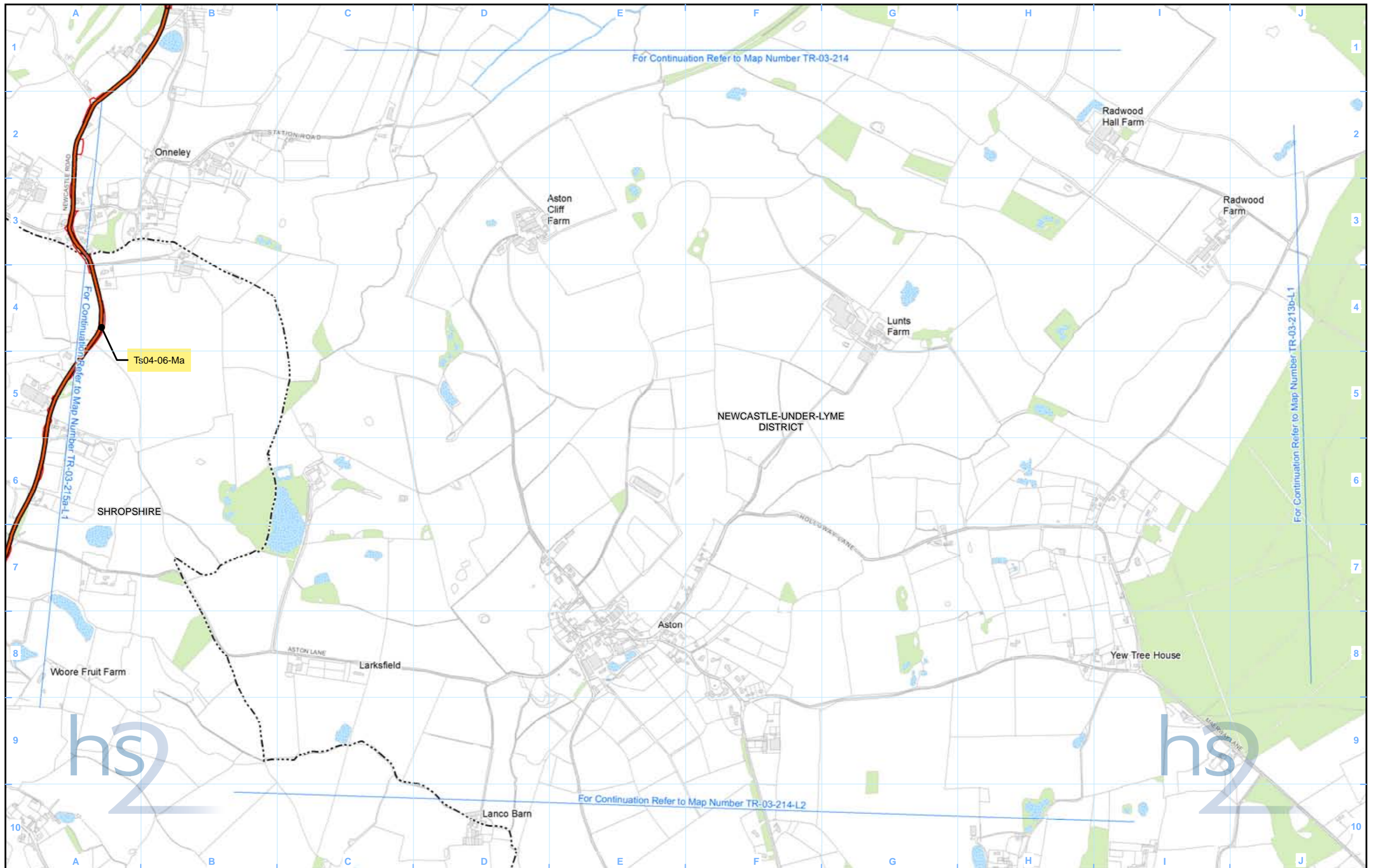
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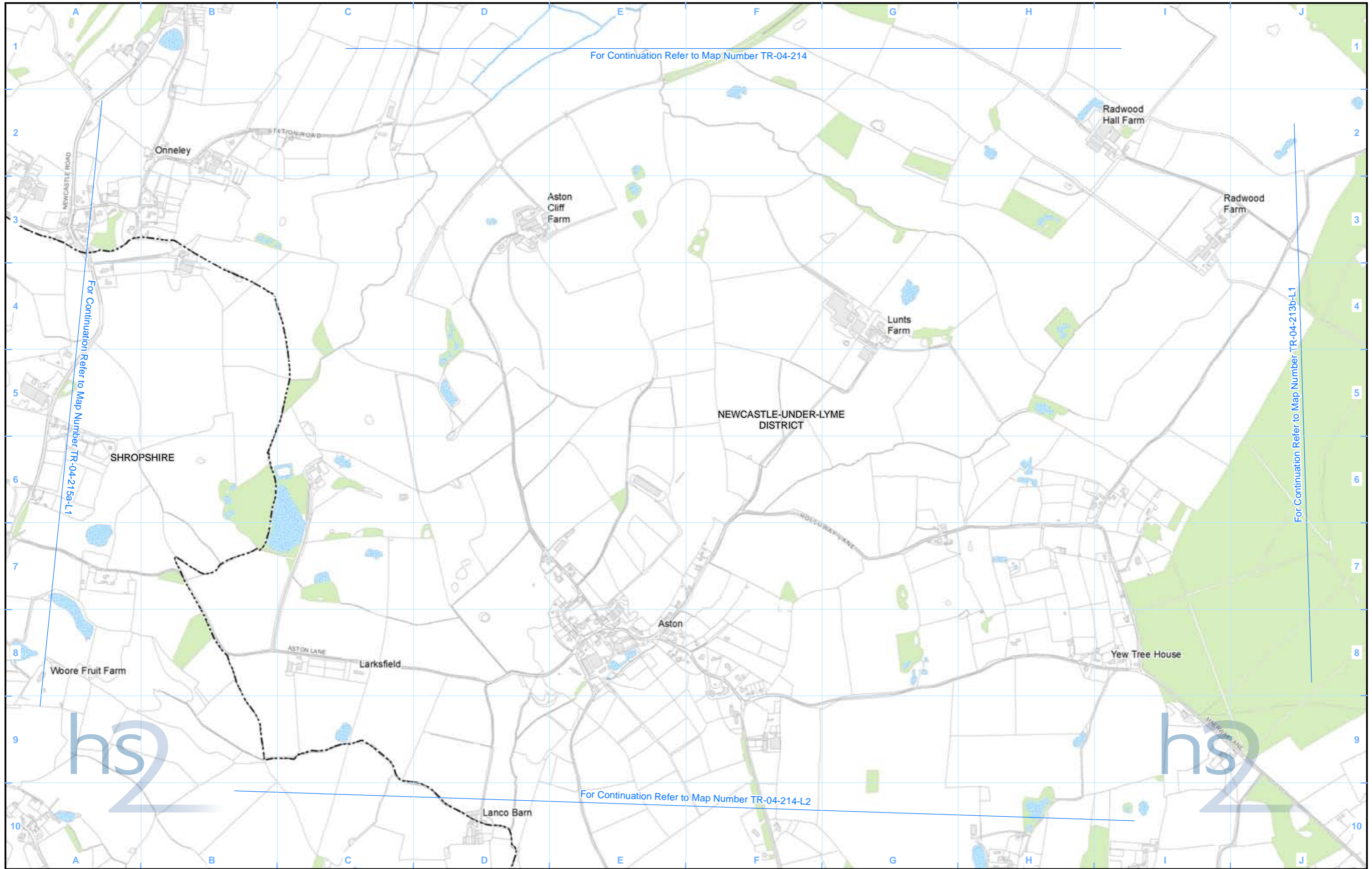
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Doc Number: C861-ARP-EV-MAP-000-144214 P04

Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number: TR-03-214-L1</p> <p>Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 4: Whitmore Heath to Madeley</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p></p> <p></p> <p>Doc Number: C861-ARP-EV-MAP-000-143314 P04</p> <p>Date: 14/06/17</p>
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For Continuation Refer to Map Number TR-04-214

For Continuation Refer to Map Number TR-04-215a-L1

For Continuation Refer to Map Number TR-04-213b-L1

For Continuation Refer to Map Number TR-04-214-L2

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number **TR-04-214-L1**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 4:
Whitmore Heath to Madeley

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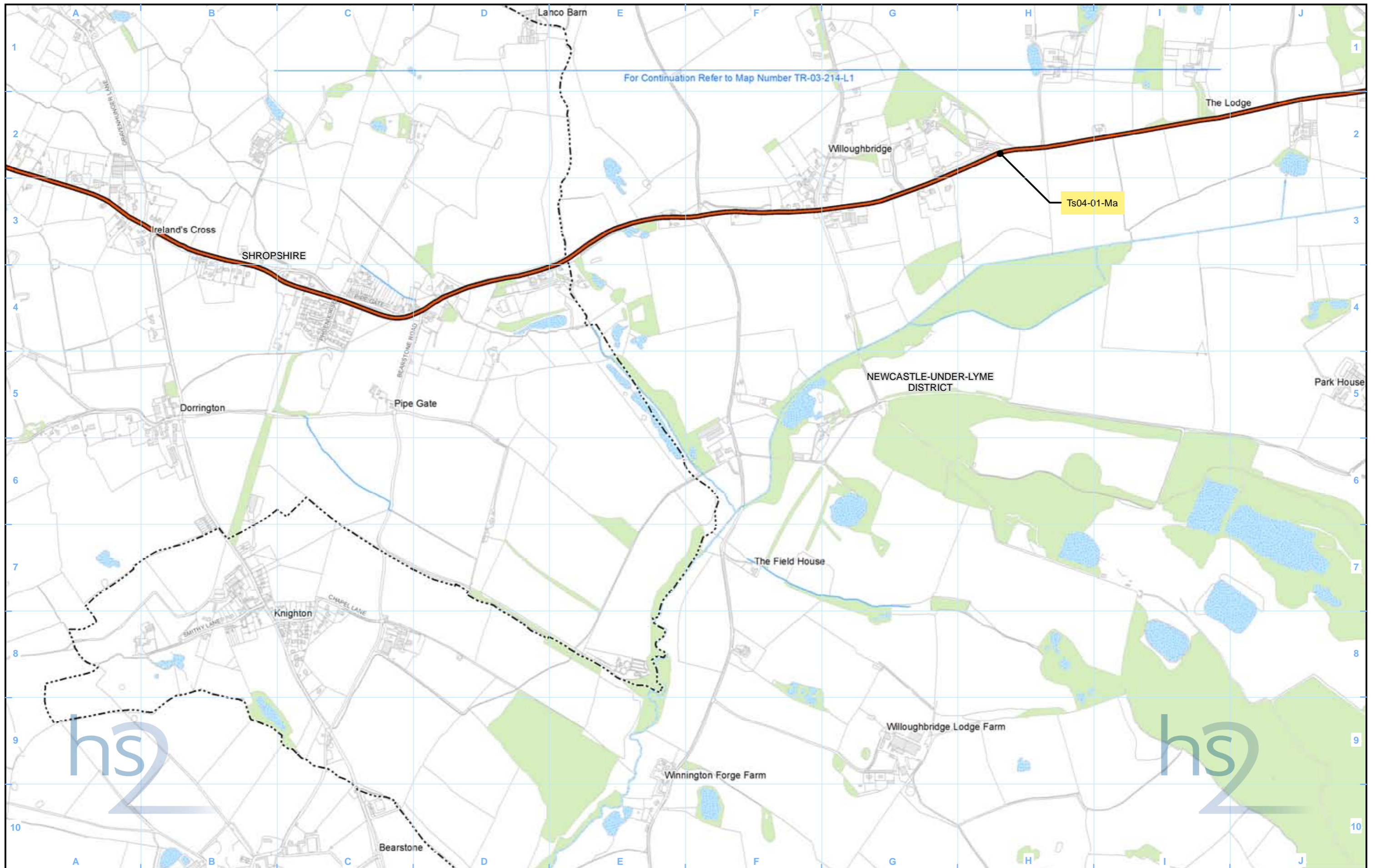
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Doc Number: C861-ARP-EV-MAP-000-144314 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-214-L2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 4: Whitmore Heath to Madeley

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Doc Number: C861-ARP-EV-MAP-000-143414 P04

Date: 14/06/17



For Continuation Refer to Map Number TR-04-214-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-214-L2

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 4:
Whitmore Heath to Madeley

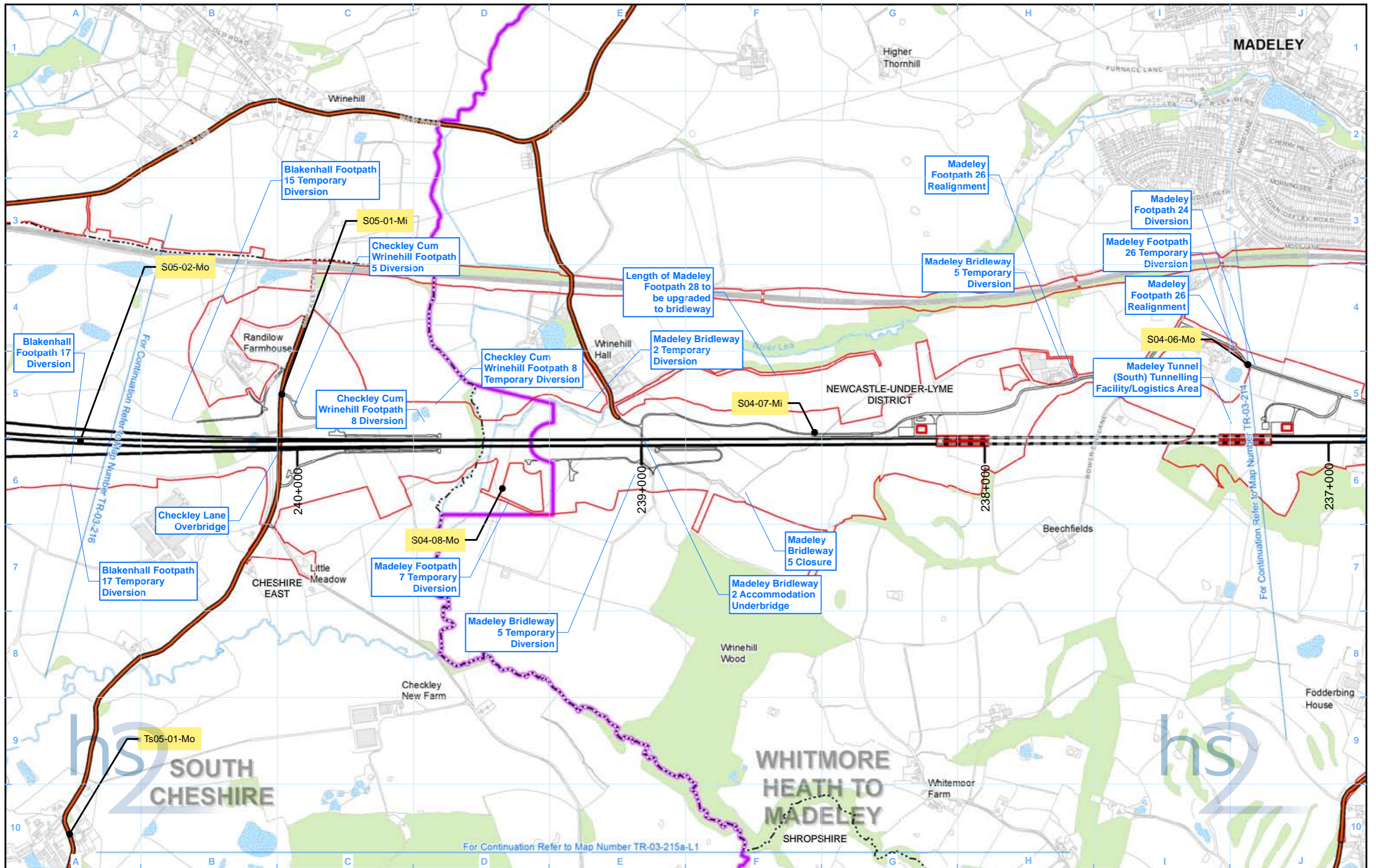
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Scale at A3: 1:10,000

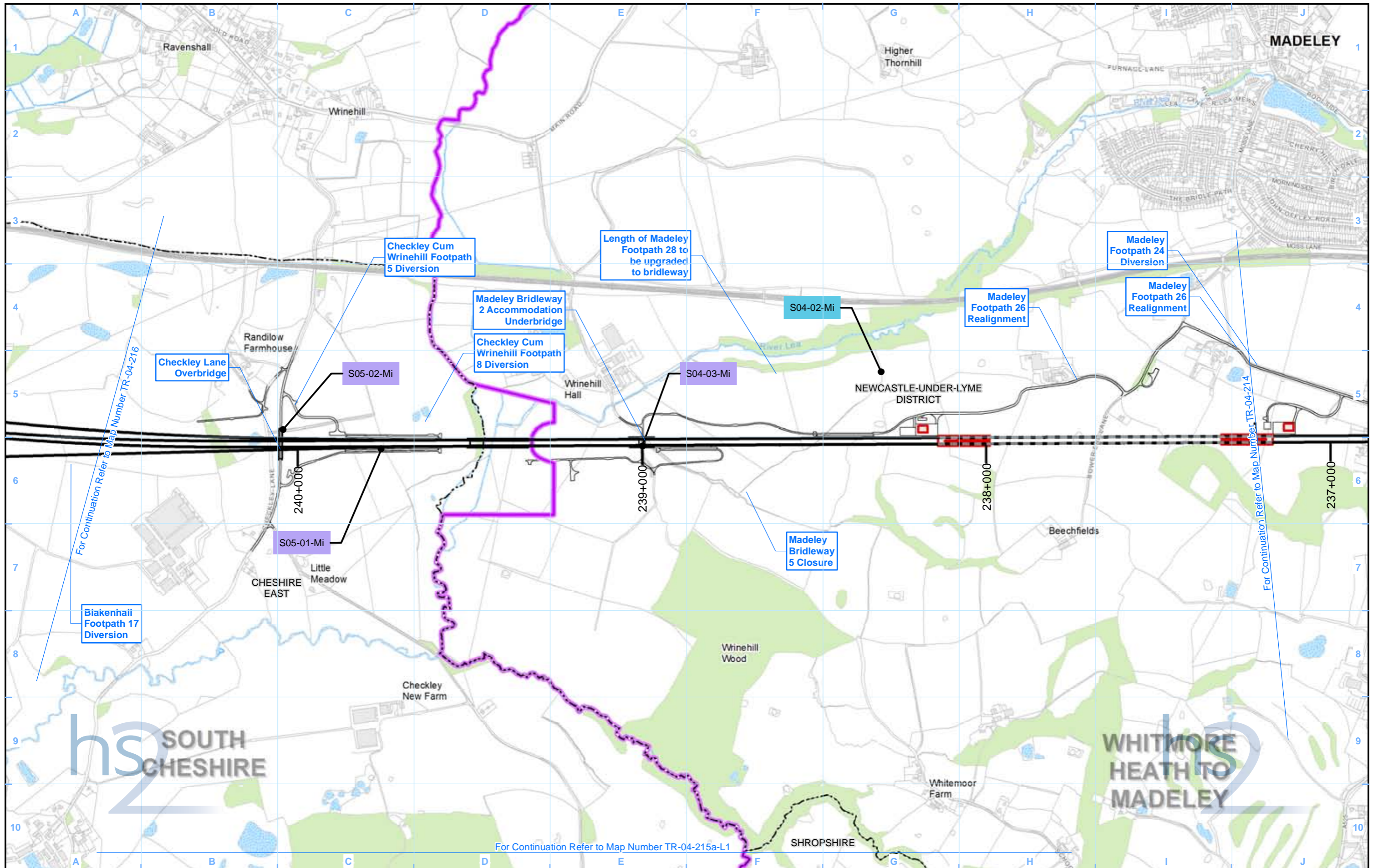
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Doc Number: C861-ARP-EV-MAP-000-144414 P04

Date: 15/06/17



<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-215a</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 4: Whitmore Heath to Madeley</p>	<p>hs2</p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6GA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Doc Number: C861-ARP-EV-MAP-000-143215 P04</p> <p>Scale at A3: 1:10,000</p> <p>Date: 14/06/17</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-215a

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 4:
Whitmore Heath to Madeley

hs2 SOUTH CHESHIRE WHITMORE HEATH TO MADELEY SHROPSHIRE

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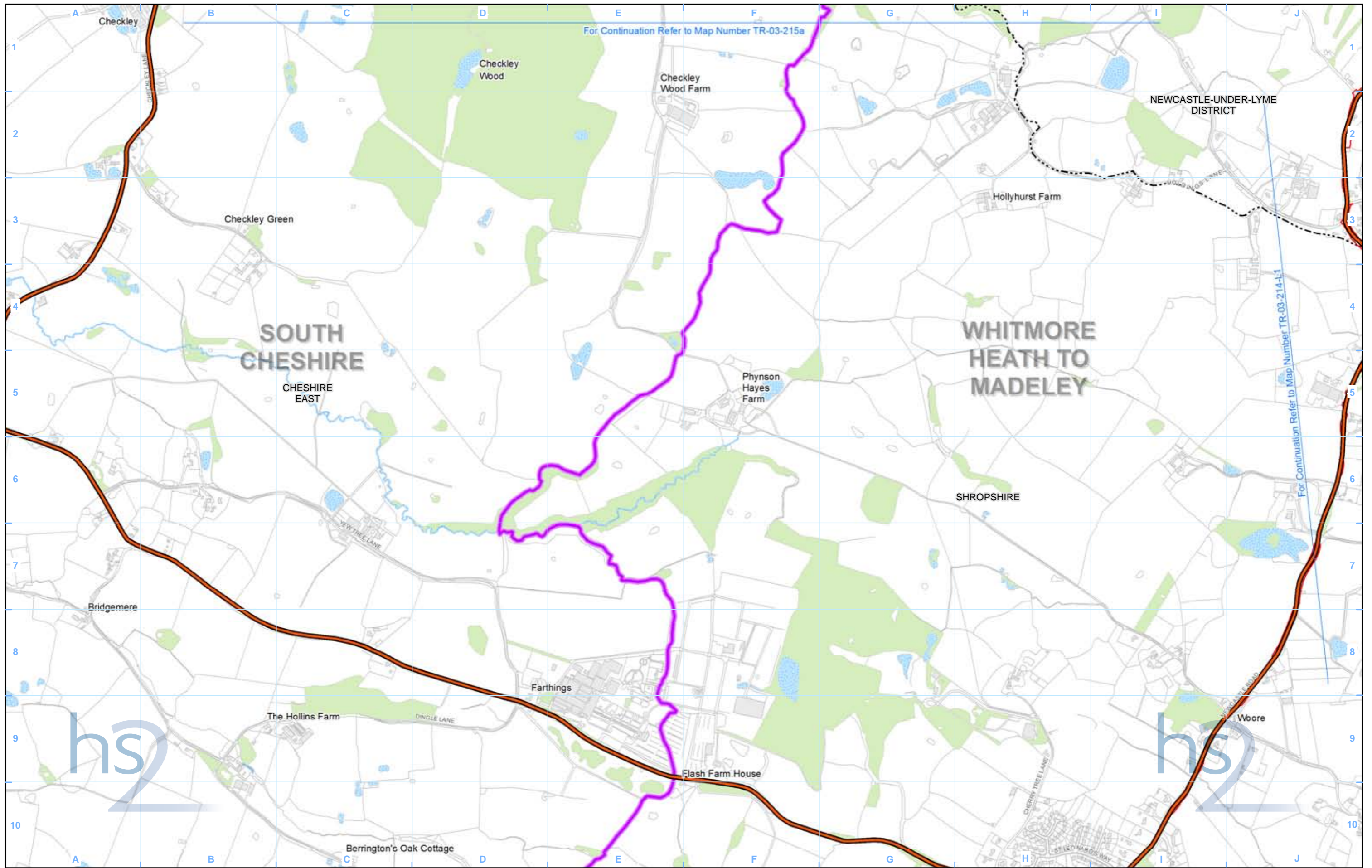
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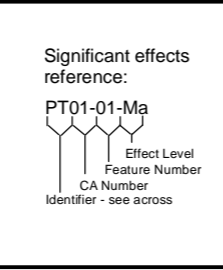
For Continuation Refer to Map Number TR-03-215a

For Continuation Refer to Map Number TR-03-214-L1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-215a-L1**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 4:
Whitmore Heath to Madeley

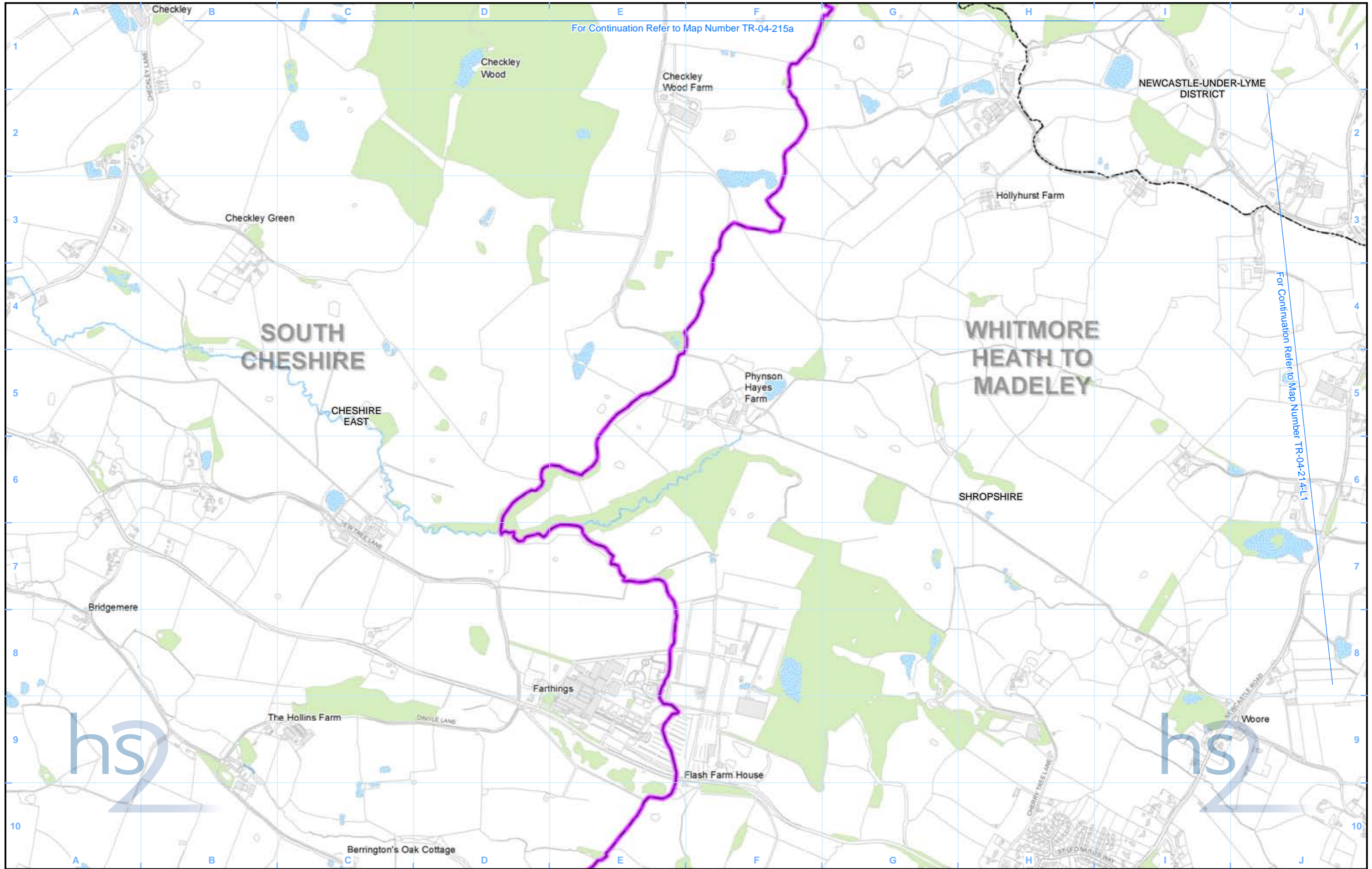
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For Continuation Refer to Map Number TR-04-215a

For Continuation Refer to Map Number TR-04-214L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number TR-04-215a-L1

Map Name
Significant Residual Transport Effects Arising from Operation

Community Area 4:
Whitmore Heath to Madeley

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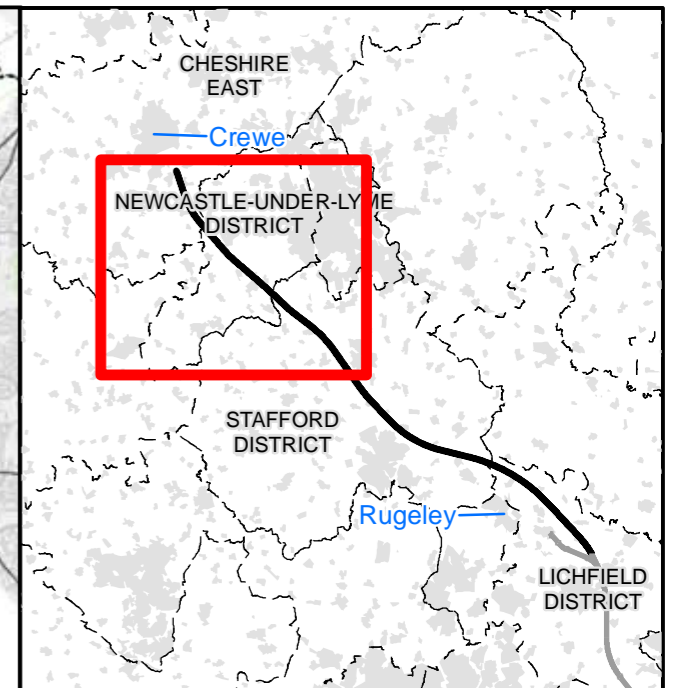
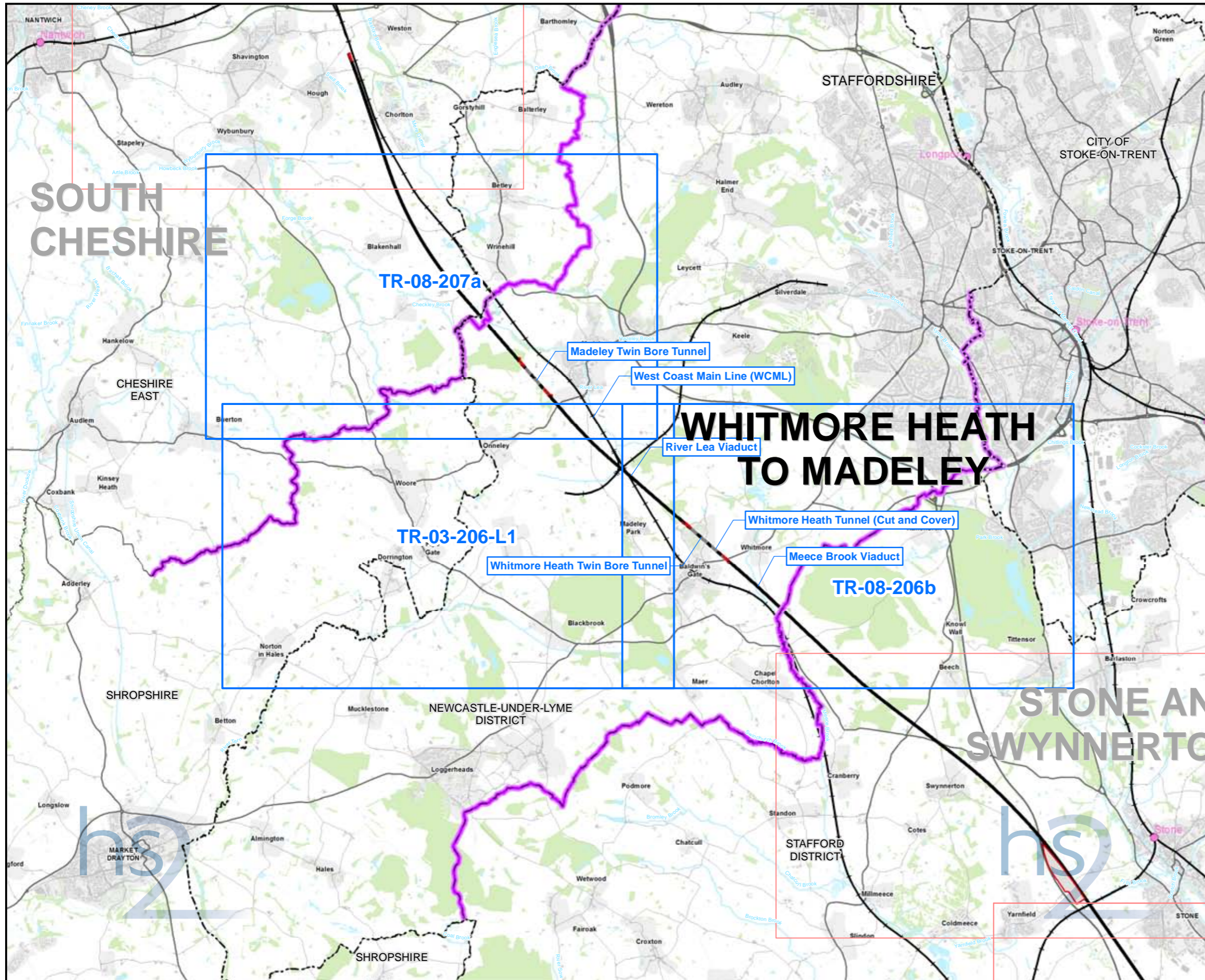
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Date: 15/06/17



Map Series Information:

This map series identifies the main construction access routes for construction compounds to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.

- Main Map Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - Existing railway station
 - County boundary
 - District/Borough boundary
 - Map sheets included in this community area
 - Map sheets not included in this community area

Map Number	TR-08-INDEX-CA4
Map Name	Index Map of: Construction Routes to the Strategic Network
	Community Area 4: Whitmore Heath to Madeley

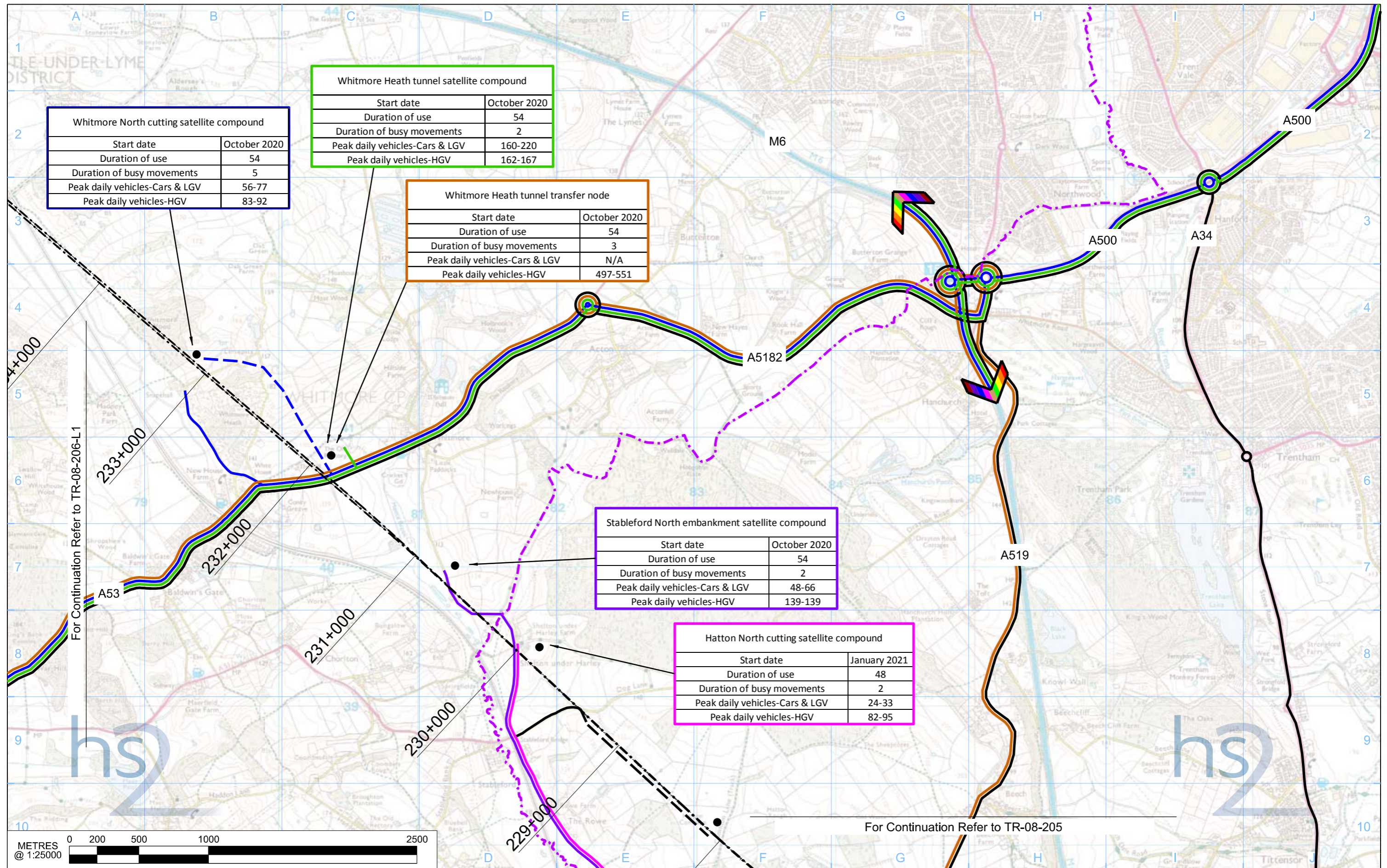
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Doc Number: C861-ARP-EV-MAP-000-148004 - P04 **Date: 16/06/17**



Whitmore North cutting satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	5
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	83-92

Whitmore Heath tunnel satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	160-220
Peak daily vehicles-HGV	162-167

Whitmore Heath tunnel transfer node	
Start date	October 2020
Duration of use	54
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	497-551

Stableford North embankment satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	48-66
Peak daily vehicles-HGV	139-139

Hatton North cutting satellite compound	
Start date	January 2021
Duration of use	48
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	24-33
Peak daily vehicles-HGV	82-95

For Continuation Refer to TR-08-206-L1

For Continuation Refer to TR-08-205

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-206b

Map Name
Construction Routes to the Strategic Network

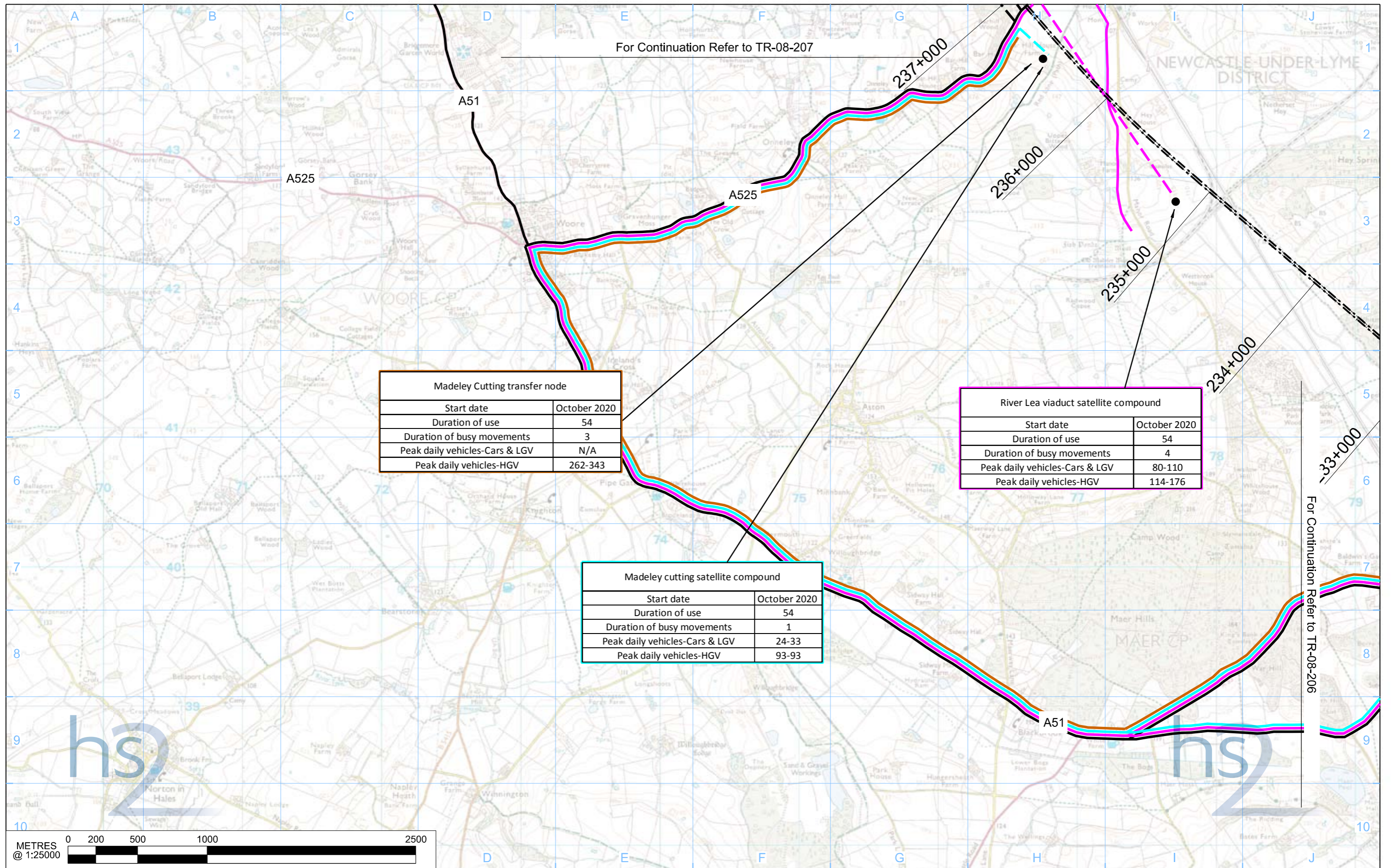
Community Area
CA4 Whitmore Heath to Madeley

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For Continuation Refer to TR-08-207

Madeley Cutting transfer node	
Start date	October 2020
Duration of use	54
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	262-343

River Lea viaduct satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	80-110
Peak daily vehicles-HGV	114-176

Madeley cutting satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	24-33
Peak daily vehicles-HGV	93-93

For Continuation Refer to TR-08-206




- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number
TR-08-206-L1

Map Name
Construction Routes to the Strategic Network

Community Area
CA4 Whitmore Heath to Madeley




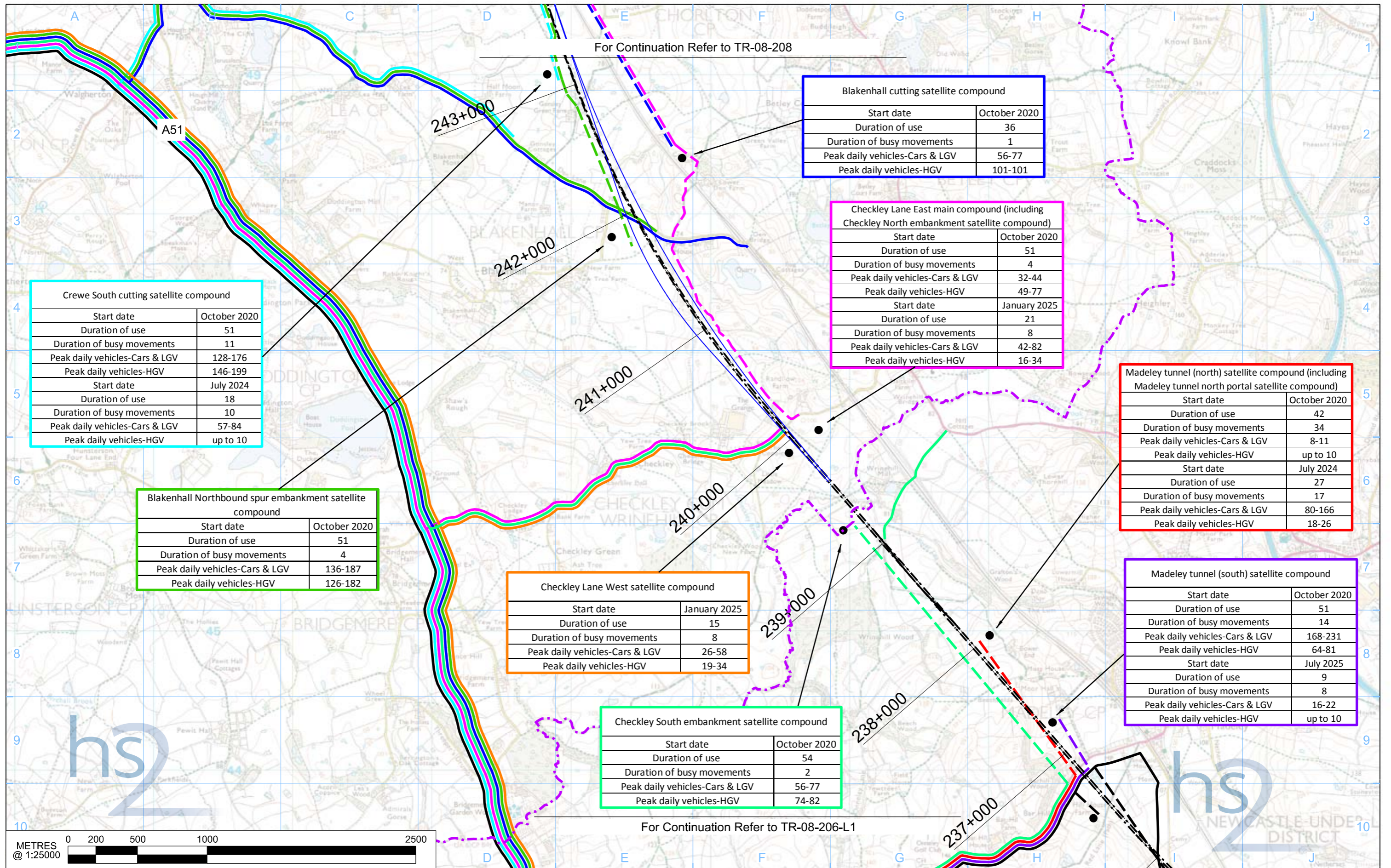
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Doc Number: C861-ARP-TM-DLO-000-200106 **P02** **Date:** 16/06/17





For Continuation Refer to TR-08-208

Blakenhall cutting satellite compound	
Start date	October 2020
Duration of use	36
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	101-101

Checkley Lane East main compound (including Checkley North embankment satellite compound)	
Start date	October 2020
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	32-44
Peak daily vehicles-HGV	49-77
Start date	January 2025
Duration of use	21
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	42-82
Peak daily vehicles-HGV	16-34

Crewe South cutting satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	11
Peak daily vehicles-Cars & LGV	128-176
Peak daily vehicles-HGV	146-199
Start date	July 2024
Duration of use	18
Duration of busy movements	10
Peak daily vehicles-Cars & LGV	57-84
Peak daily vehicles-HGV	up to 10

Blakenhall Northbound spur embankment satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	136-187
Peak daily vehicles-HGV	126-182

Checkley Lane West satellite compound	
Start date	January 2025
Duration of use	15
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	26-58
Peak daily vehicles-HGV	19-34

Checkley South embankment satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	74-82

Madeley tunnel (north) satellite compound (including Madeley tunnel north portal satellite compound)	
Start date	October 2020
Duration of use	42
Duration of busy movements	34
Peak daily vehicles-Cars & LGV	8-11
Peak daily vehicles-HGV	up to 10
Start date	July 2024
Duration of use	27
Duration of busy movements	17
Peak daily vehicles-Cars & LGV	80-166
Peak daily vehicles-HGV	18-26

Madeley tunnel (south) satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	14
Peak daily vehicles-Cars & LGV	168-231
Peak daily vehicles-HGV	64-81
Start date	July 2025
Duration of use	9
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	16-22
Peak daily vehicles-HGV	up to 10

For Continuation Refer to TR-08-206-L1



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: **TR-08-207a**

Map Name: **Construction Routes to the Strategic Network**

Community Area: CA4 Whitmore Heath to Madeley

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High Speed Rail (West Midlands-Crewe)

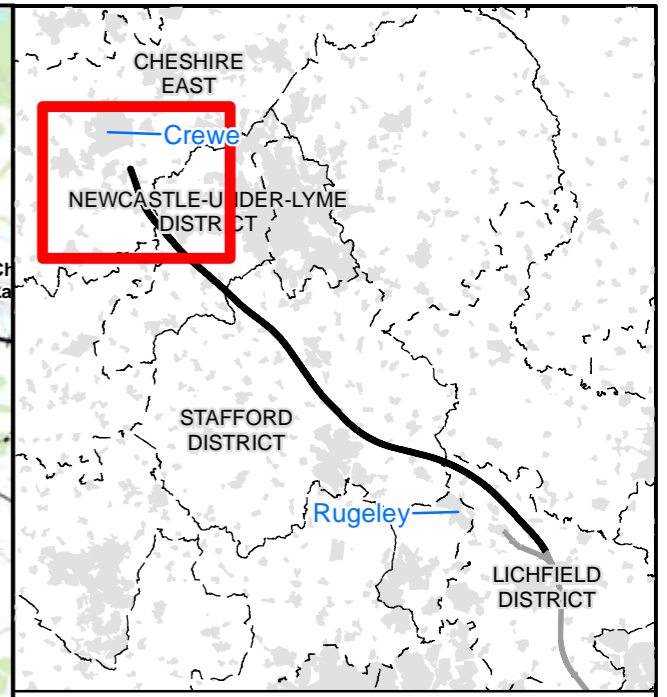
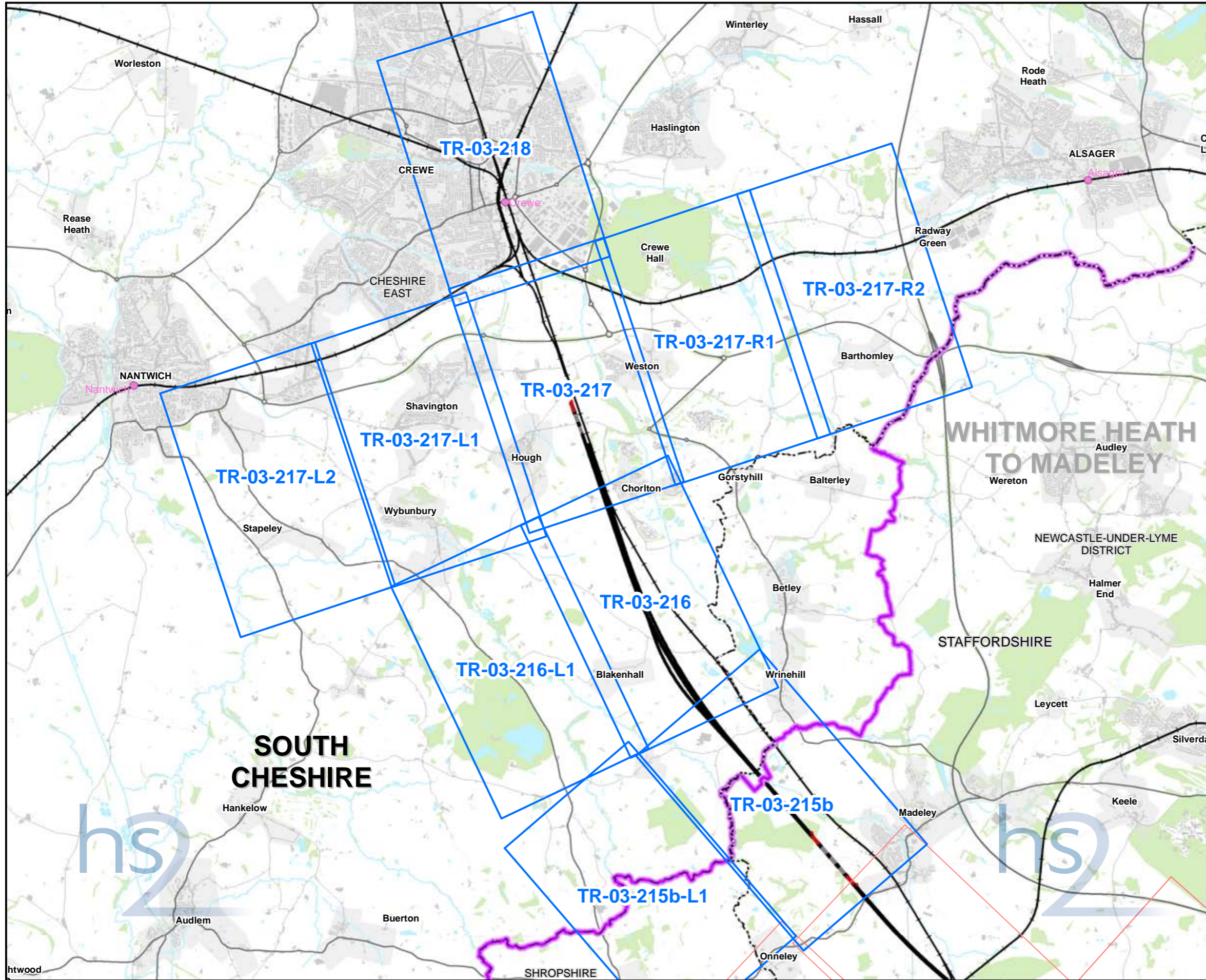
Environmental Statement

CA5 South Cheshire

**TR-03 - Significant Residual Transport Effects Arising during
Construction and Construction Traffic Routes**

TR-04 - Significant Residual Transport Effects Arising from Operation

TR-08 - Construction Routes to the Strategic Network



Map Series Information:

This map series identifies the significant residual transport effects arising from construction of the Proposed Scheme and the construction traffic routes. Traffic routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main A road/ strategic road network within each CA. The effects include those that are temporary (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme on the transport network and the level of significance of those effects (minor, moderate or major).

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number: TR-03-INDEX-CA5

Map Name: Index Map of:
Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 5:
South Cheshire

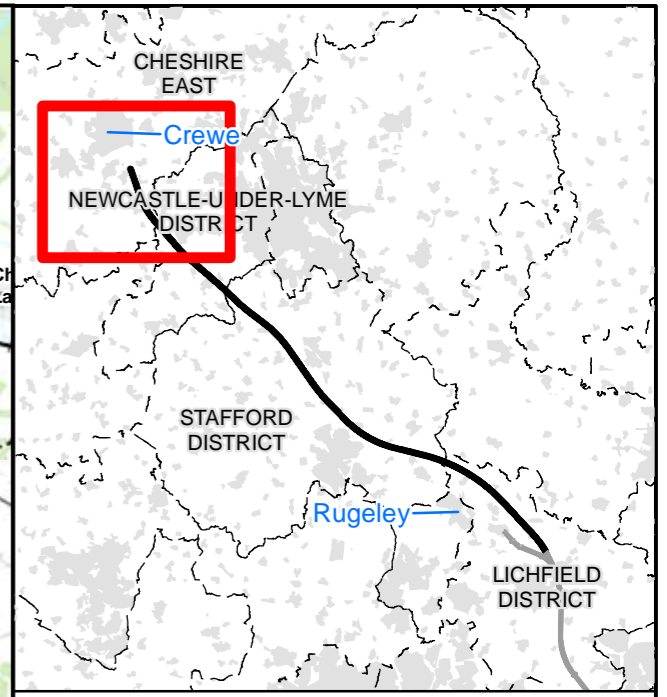
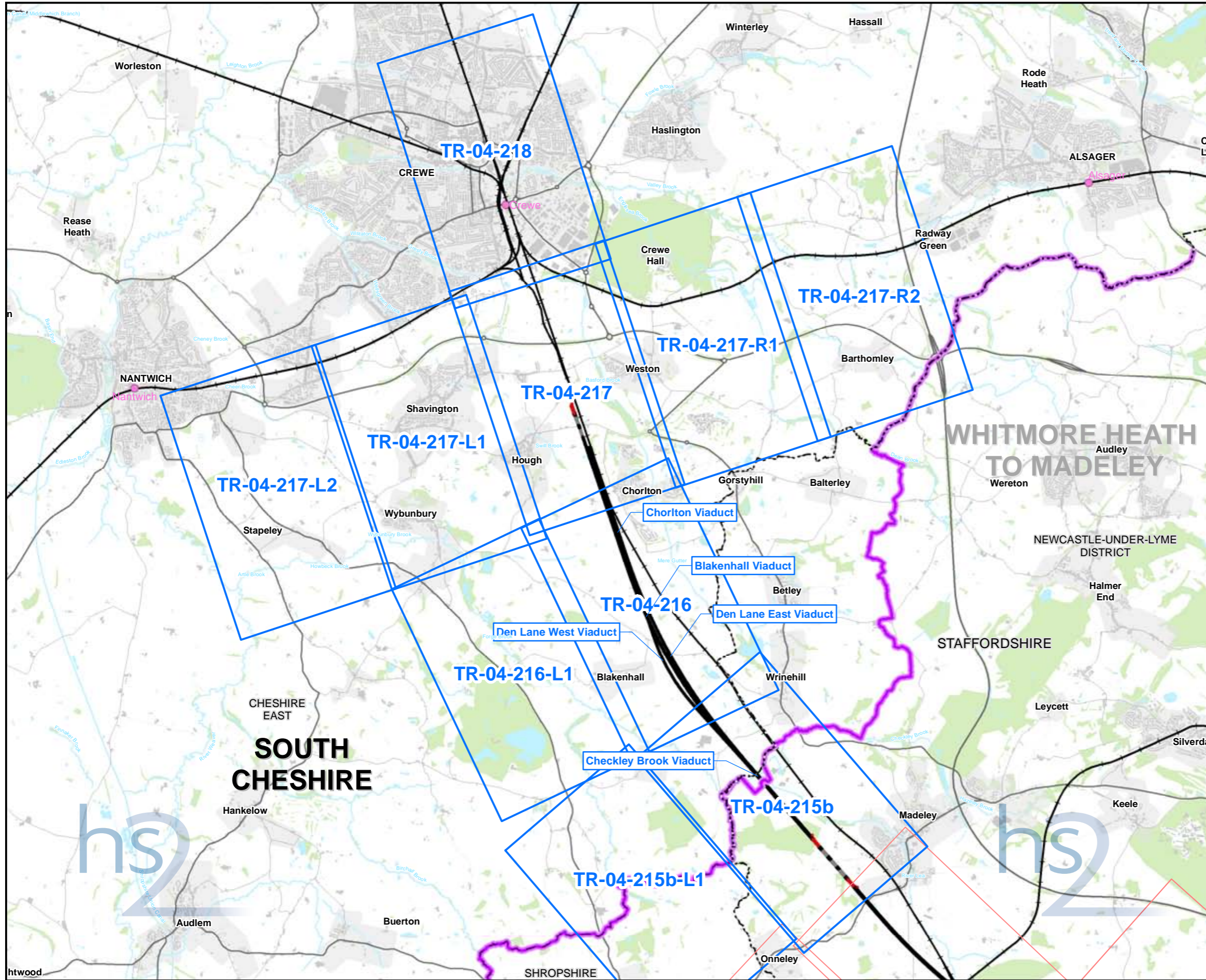
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Doc Number: C861-ARP-EV-MAP-000-143005 - P04 Date: 13/06/17



Map Series Information:

Identifies the significant residual transport effects during the operation of HS2 for each CA. The effects include those that are permanent (adverse/beneficial) from transport-related impacts as a result of the Proposed Scheme (and mitigation) on the existing transport network and the level of significance of those effects (minor, moderate or major) for the two forecast years 2027 (Opening Year) and 2041 (Design Year).

Main Map Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- Existing railway station
- County boundary
- District/Borough boundary
- Map sheets included in this community area
- Map sheets not included in this community area

Map Number: TR-04-INDEX-CA5

Map Name: Index Map of:
Significant Residual Transport
Effects Arising from Operation

Community Area 5:
South Cheshire

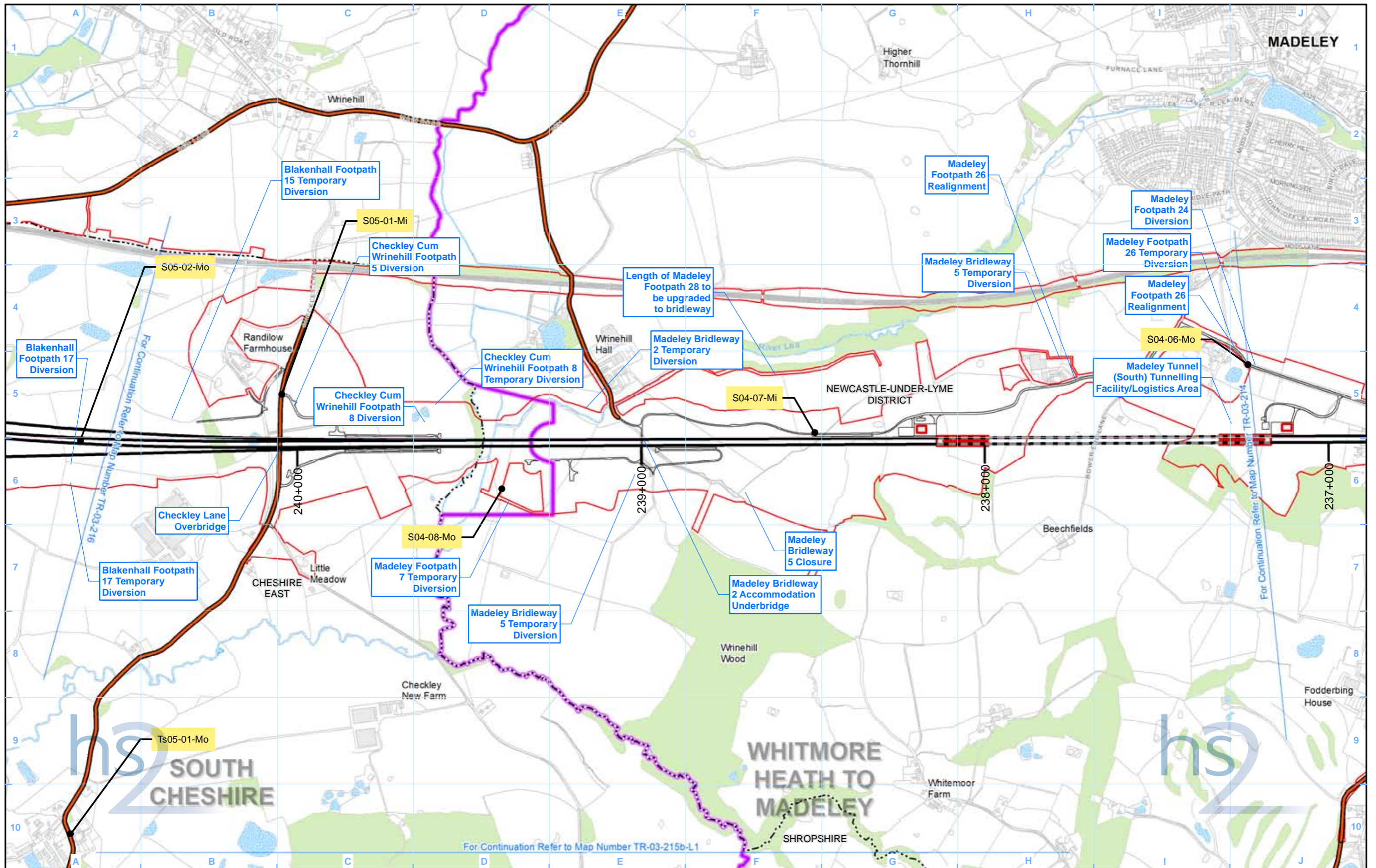
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Doc Number: C861-ARP-EV-MAP-000-144005 - P04 Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-215b

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 5: South Cheshire

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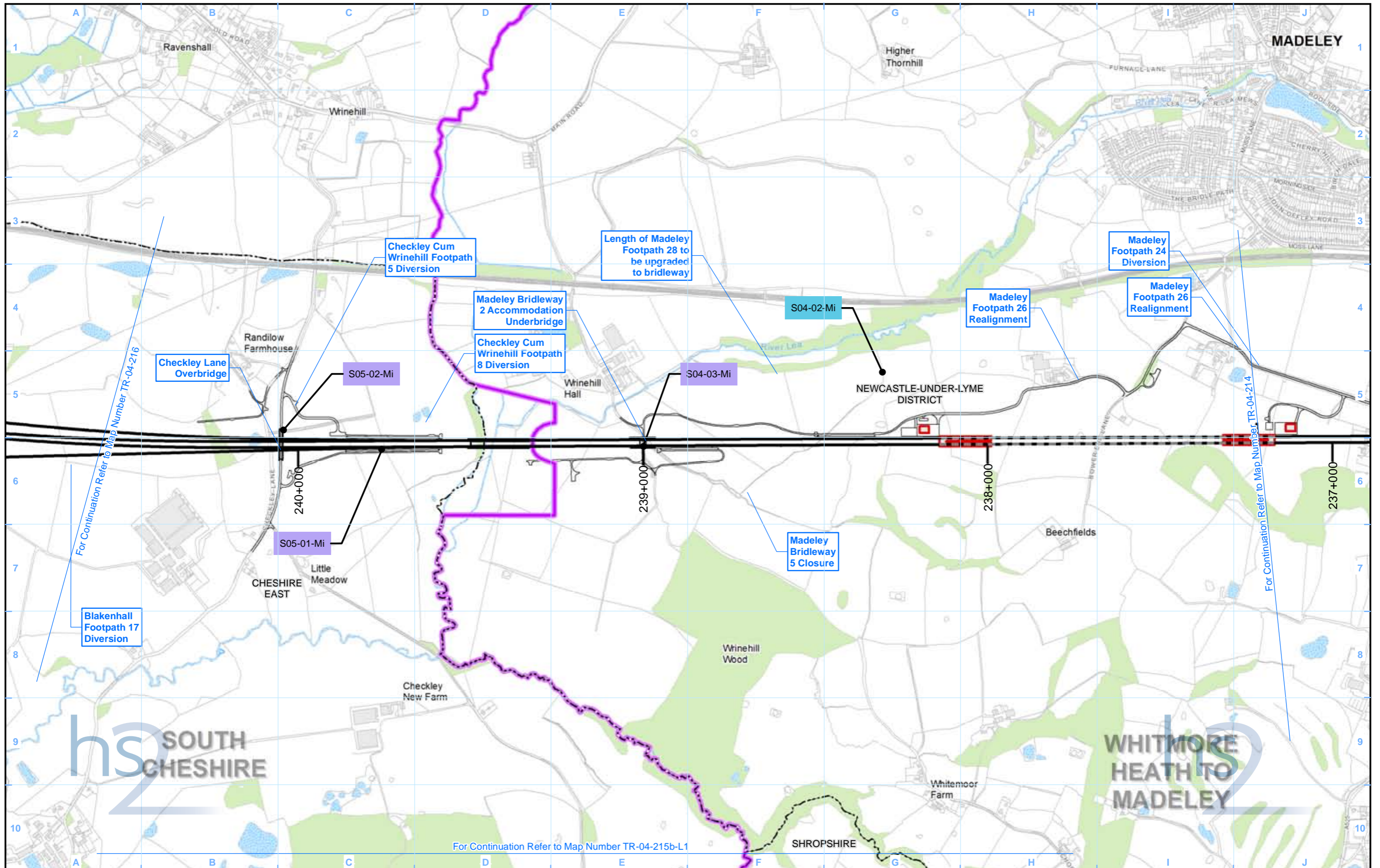
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Metres

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-215b

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 5: South Cheshire

hs2 SOUTH CHESHIRE WHITMORE HEATH TO MADELEY SHROPSHIRE

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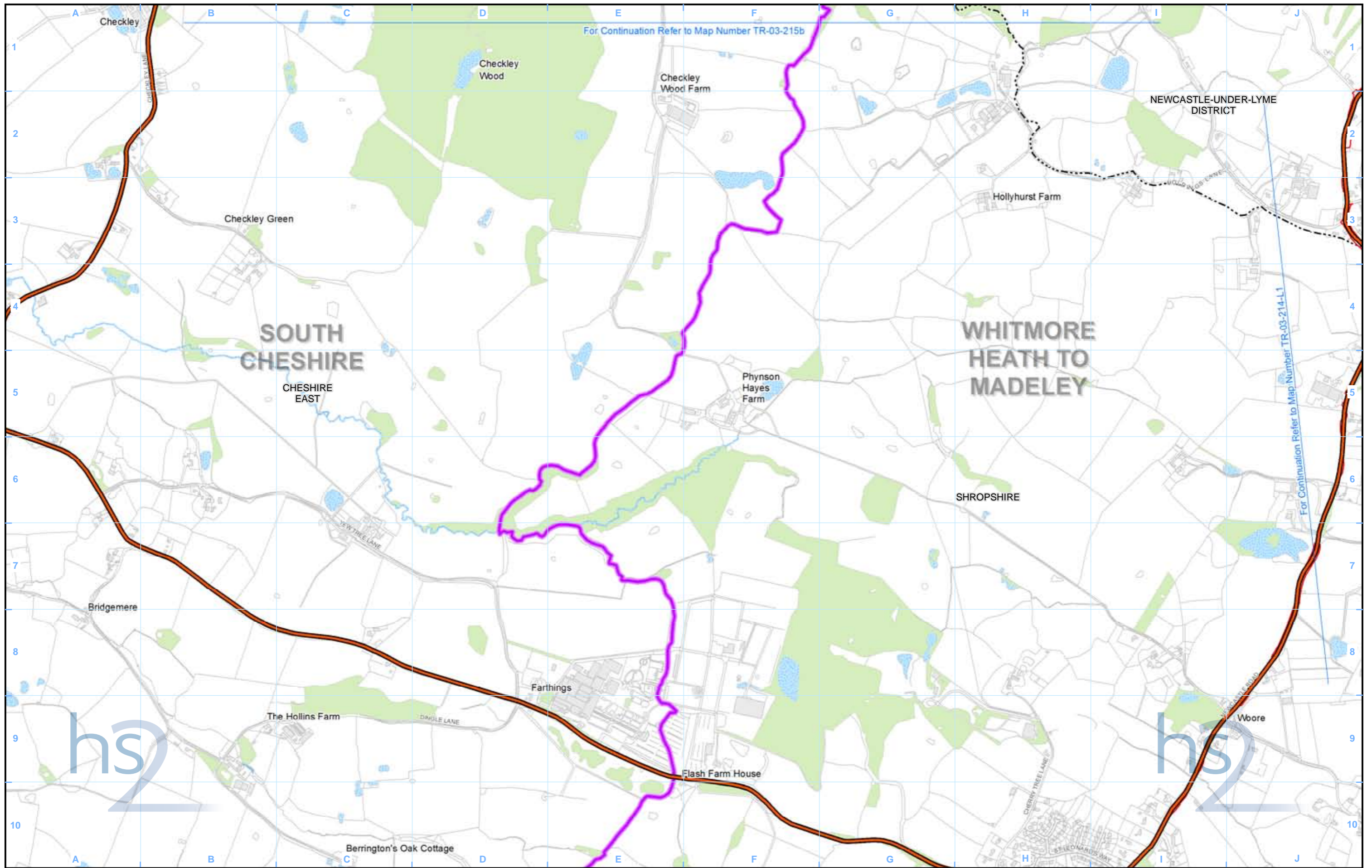
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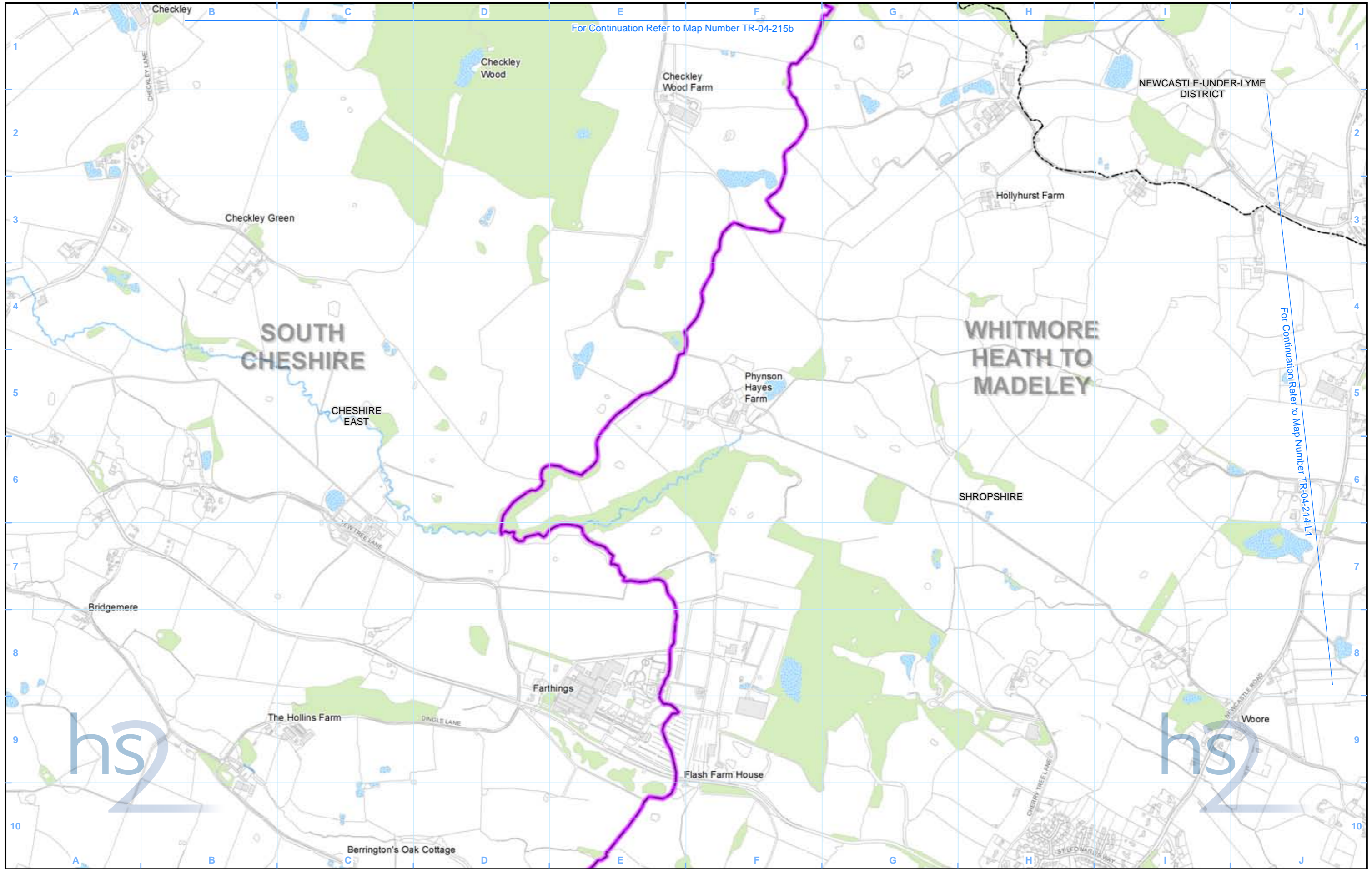
Date: 15/06/17



For Continuation Refer to Map Number TR-03-215b

For Continuation Refer to Map Number TR-03-214-L1

<p>Legend</p> <ul style="list-style-type: none"> Route in tunnel Route on surface Depot, station, headhouse or portal building Land potentially required during construction Community area boundary County boundary District/Borough boundary 	<ul style="list-style-type: none"> Watercourse Water body Woodland 	<p>Construction significant effects:</p> <ul style="list-style-type: none"> Adverse-permanent Adverse-temporary Beneficial-temporary Beneficial-permanent Construction traffic route 	<p>Significant effects reference:</p> <p>PT01-01-Ma</p> <p>Effect Level Feature Number CA Number Identifier - see across</p>	<p>Construction effects identifiers:</p> <ul style="list-style-type: none"> PT - Public transport delay D - Disruption at stations / interchanges Tc - Traffic flows and delays to vehicle occupants Td - Traffic diversion Ts - Traffic severance - non-motorised users P - Parking and loading V - Vulnerable road user delays, amenity and ambience A - Accidents and safety S - Severance W - Waterways 	<p>Effect level:</p> <ul style="list-style-type: none"> Mi - Minor Mo - Moderate Ma - Major 	<p>Map Number TR-03-215b-L1</p> <p>Map Name Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes</p> <p>Community Area 5: South Cheshire</p>	<p></p> <p>HS2 Ltd accept no responsibility for any circumstances, which arise from the reproduction of this map after alteration, amendment or abbreviation or if it is issued in part or issued incomplete in any way.</p> <p>Registered in England. Registration number 06791686. Registered office: 2 Snowhill, Queensway, Birmingham B4 6QA.</p> <p>© Crown copyright and database rights 2017. Ordnance Survey Licence Number 100049190.</p> <p>Scale at A3: 1:10,000</p> <p></p> <p></p> <p>Doc Number: C861-ARP-EV-MAP-000-143715 P04</p> <p>Date: 14/06/17</p>
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland
- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Operational Significant Effects

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Map Number **TR-04-215b-L1**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 5:
South Cheshire

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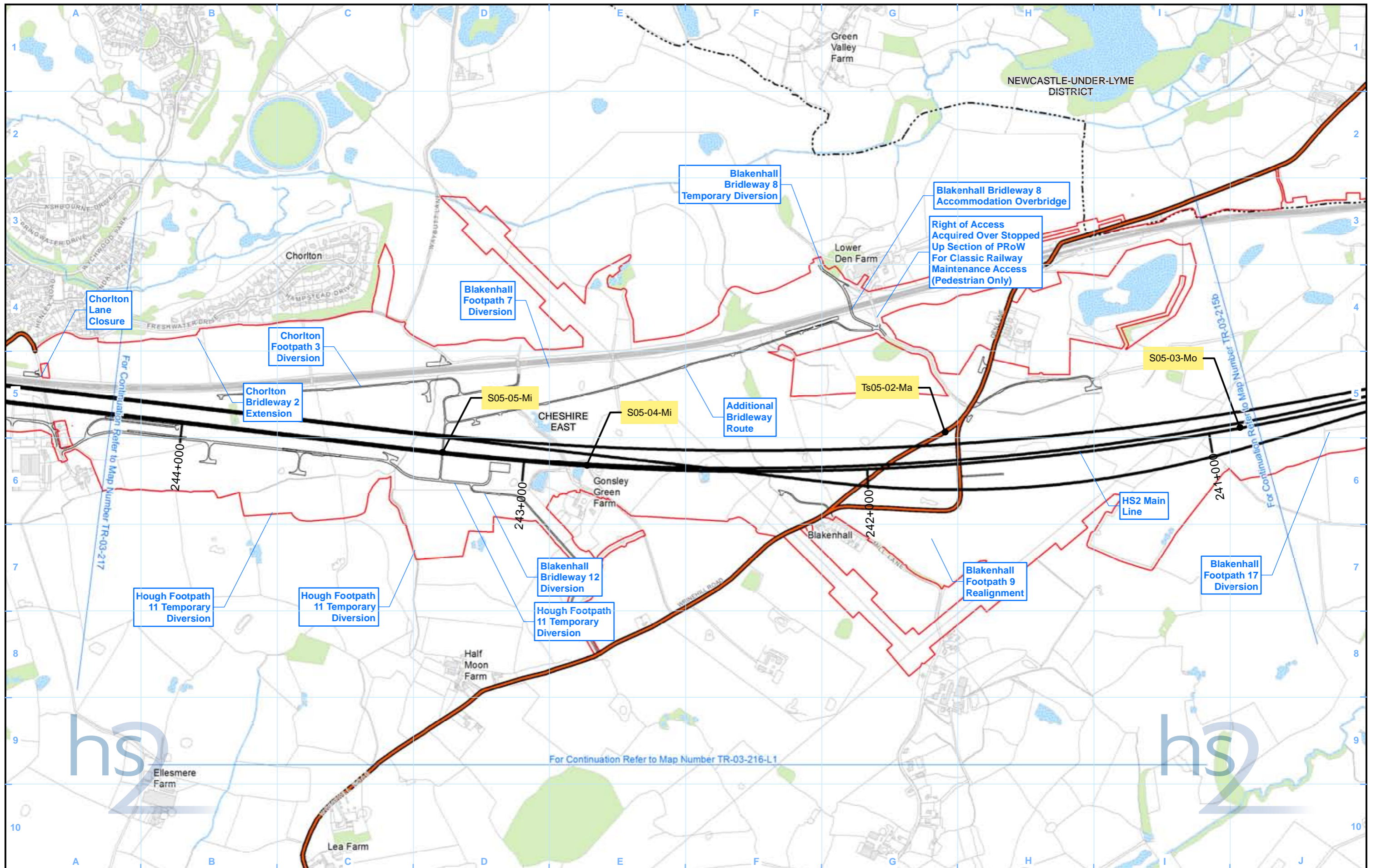
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Doc Number: C861-ARP-EV-MAP-000-144715 P04

Date: 15/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary

- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-216

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 5: South Cheshire

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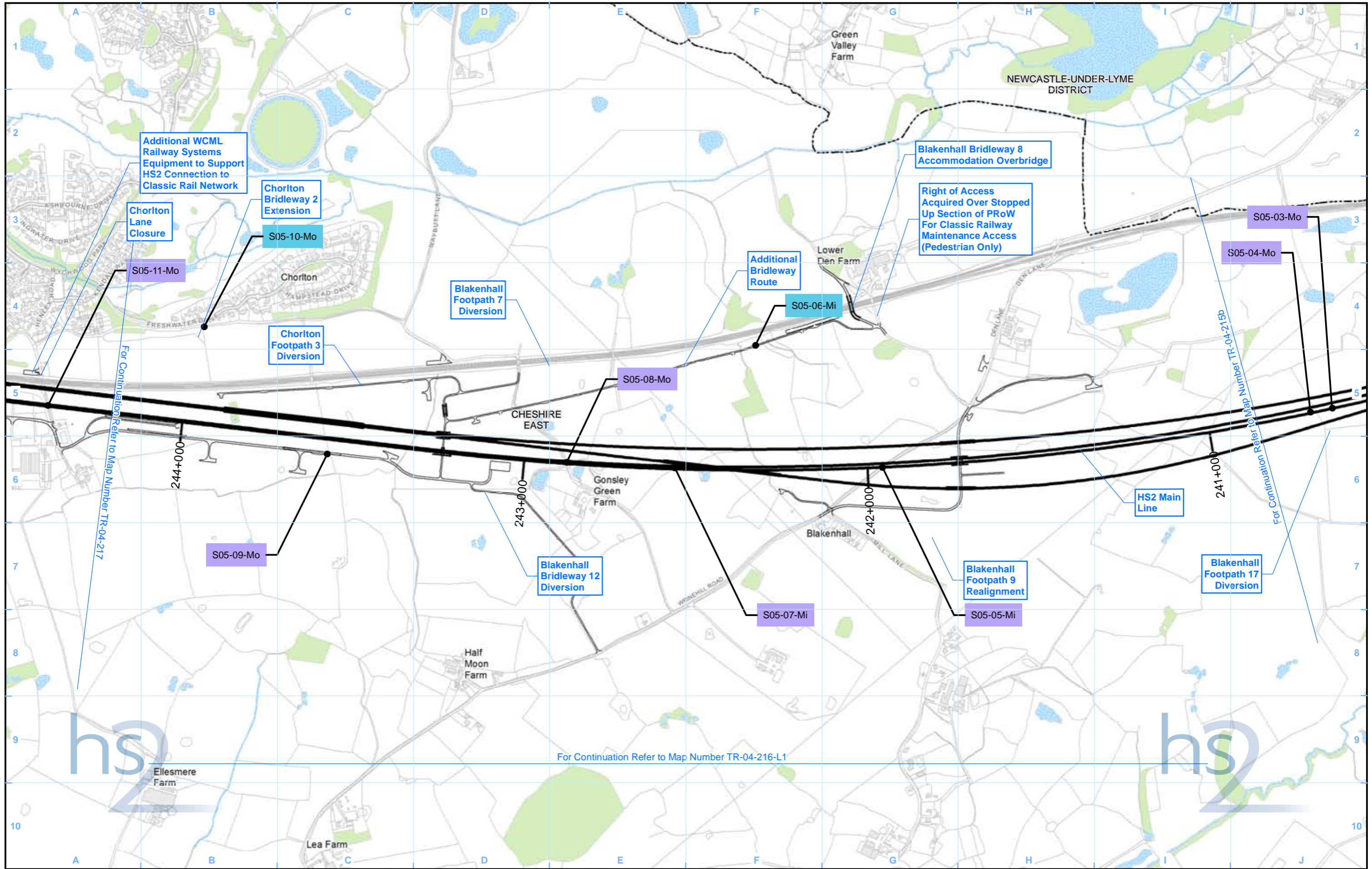
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Metres

Date: 14/06/17



Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-216

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 5: South Cheshire

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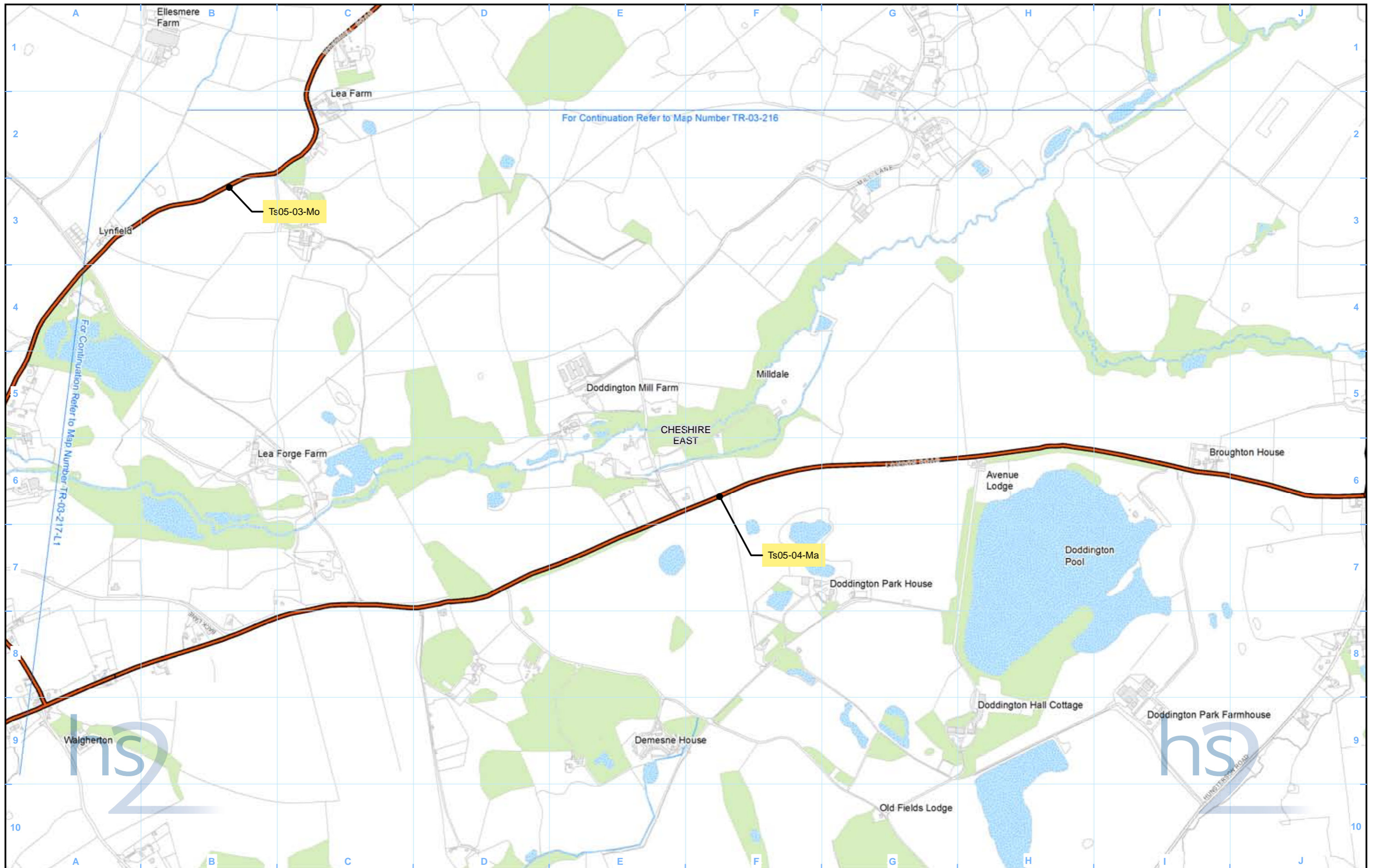
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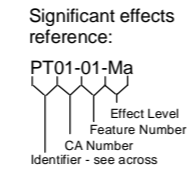
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-216-L1

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 5: South Cheshire

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For Continuation Refer to Map Number TR-04-217-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-216-L1

Map Name: Significant Residual Transport Effects Arising from Operation

Community Area 5: South Cheshire

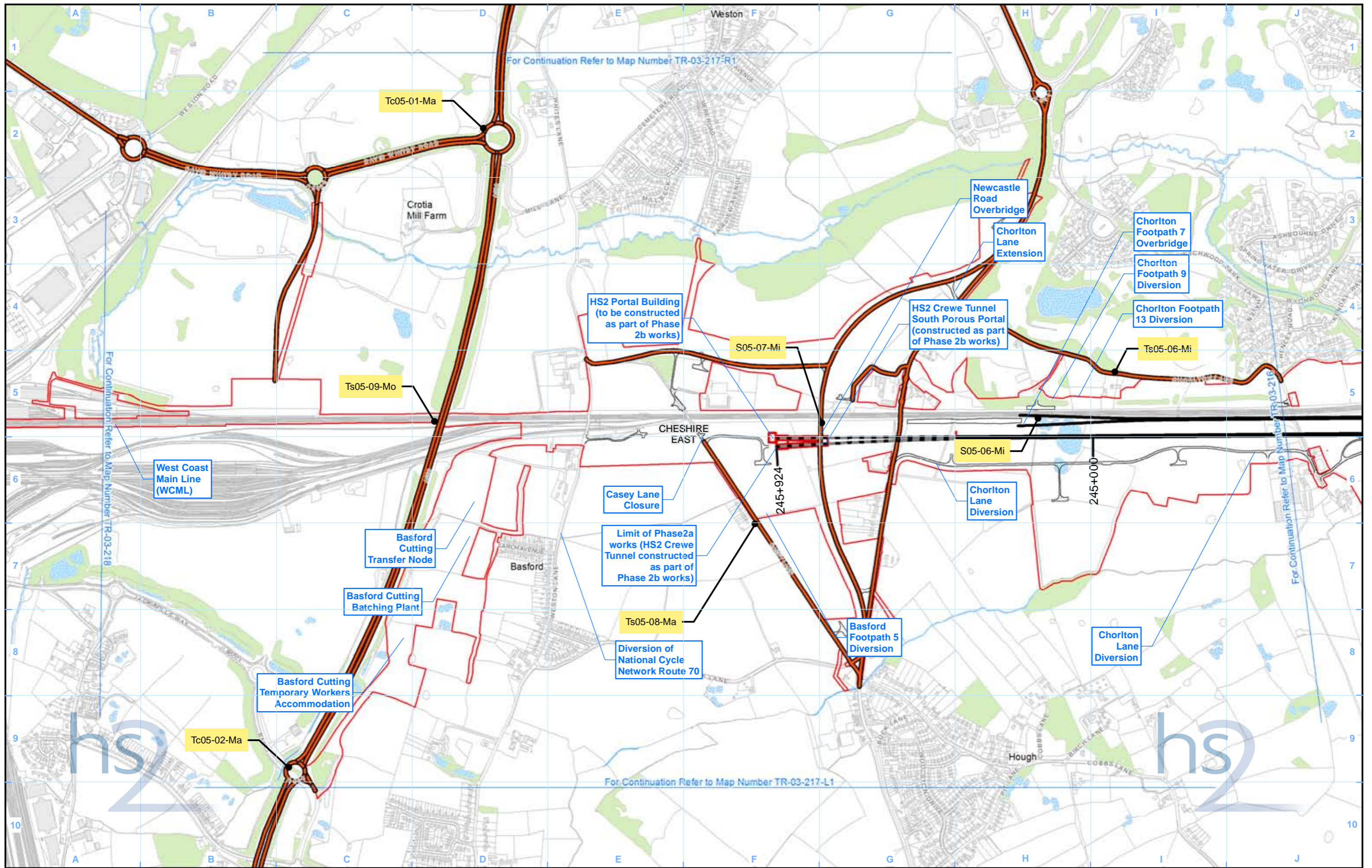
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
Feature Number
CA Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number
TR-03-217

Map Name
Significant Residual Transport Effects
Arising during Construction and
Construction Traffic Routes

Community Area 5:
South Cheshire

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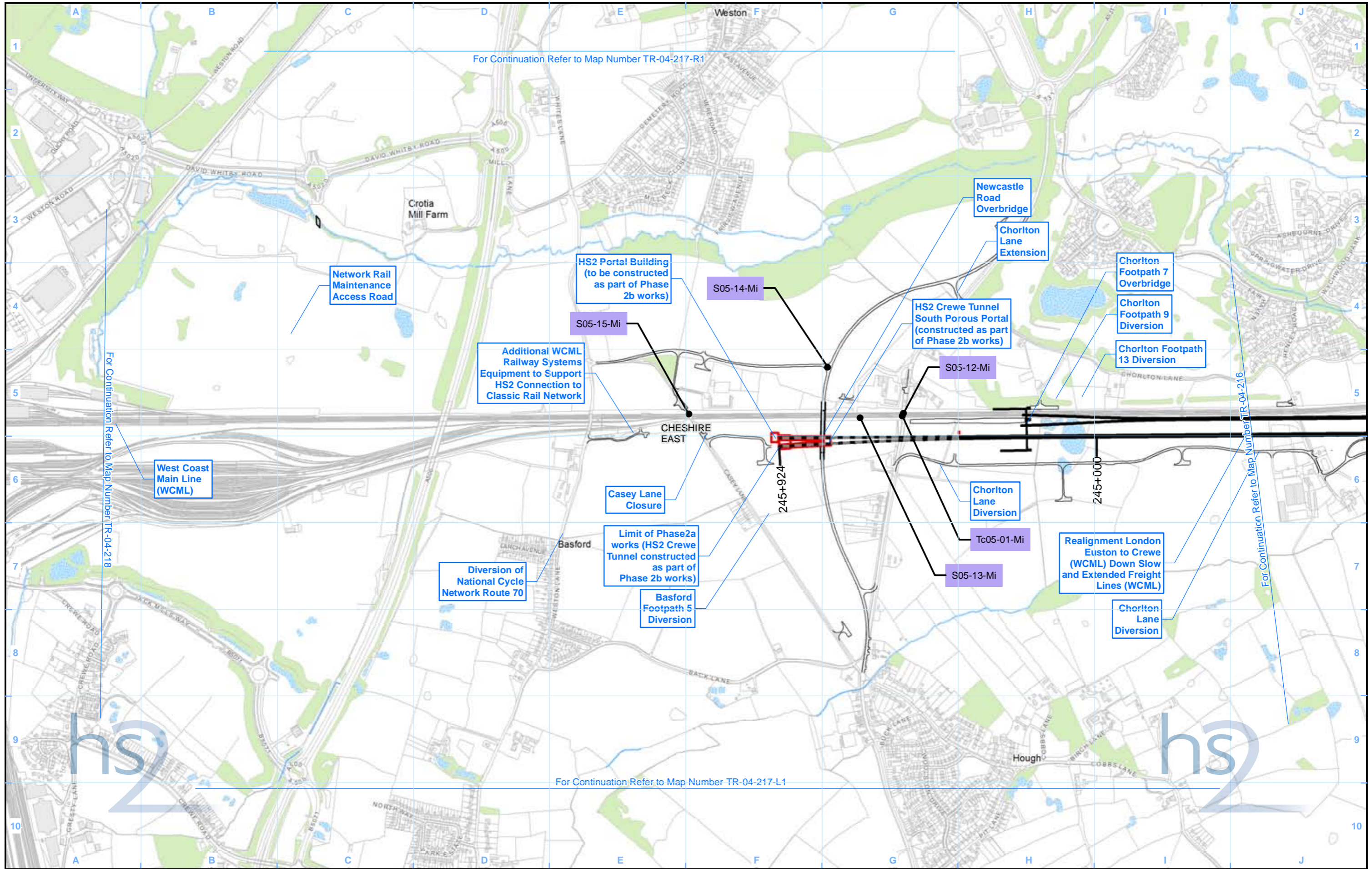
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For Continuation Refer to Map Number TR-04-218

For Continuation Refer to Map Number TR-04-216

For Continuation Refer to Map Number TR-04-217-L1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-217

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 5: South Cheshire

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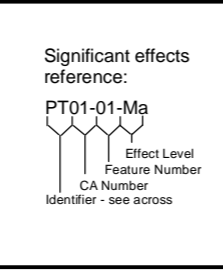
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-217-L1**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 5:
South Cheshire

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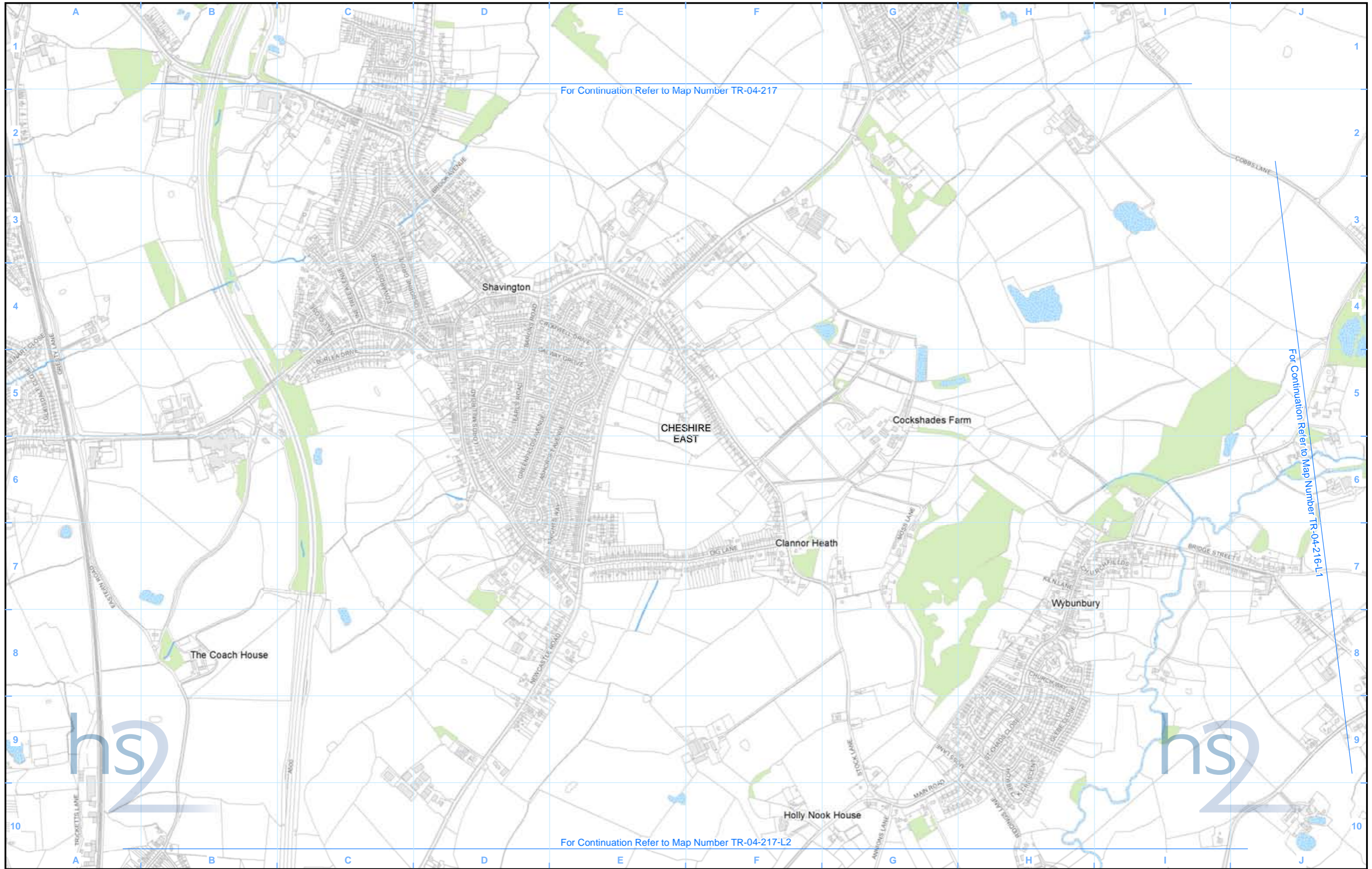
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number: TR-04-217-L1

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 5: South Cheshire

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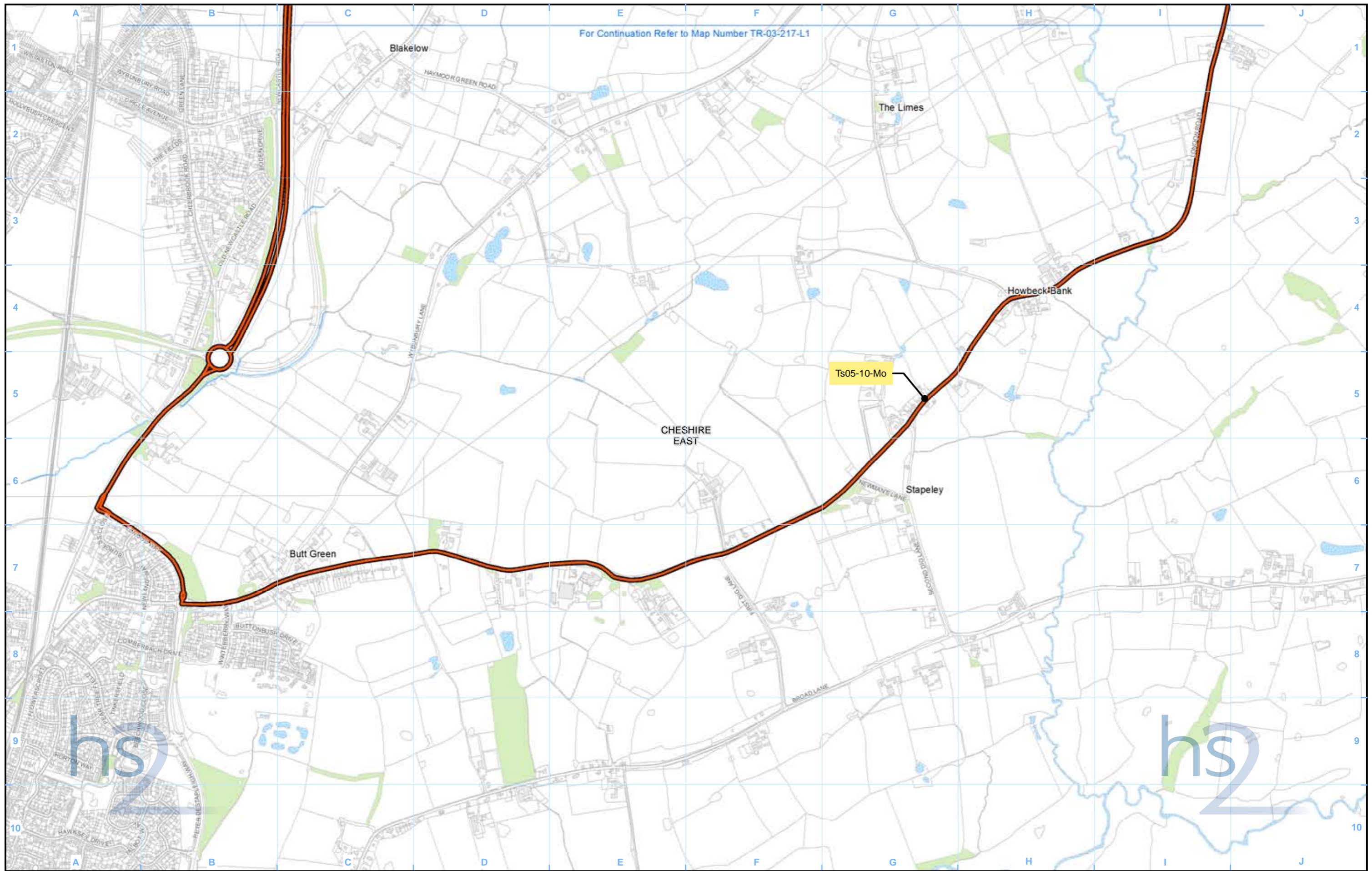
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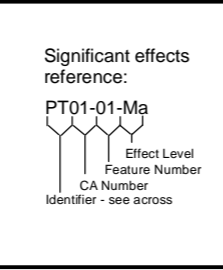


For Continuation Refer to Map Number TR-03-217-L1

- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number **TR-03-217-L2**

Map Name **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 5:
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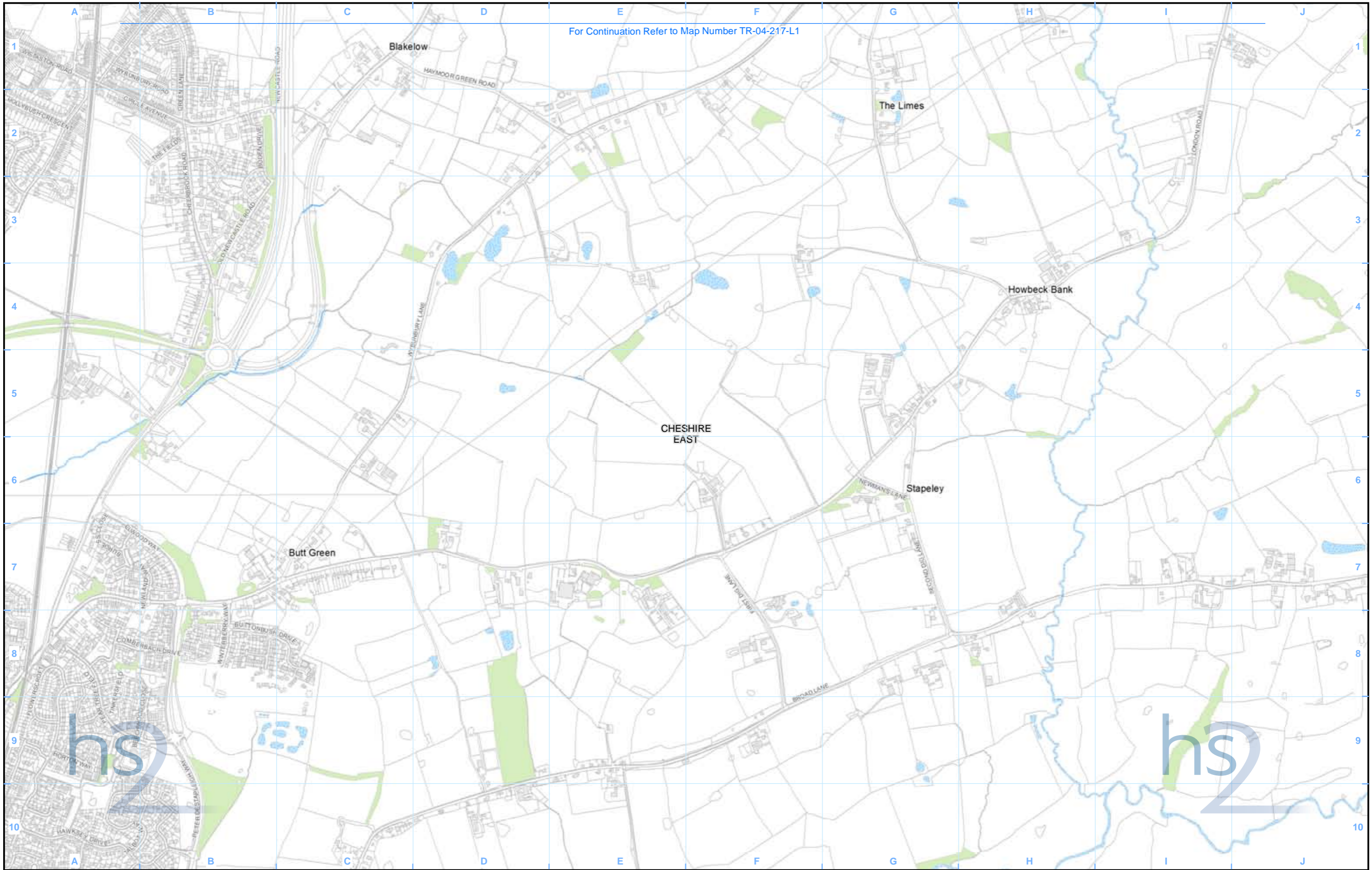
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Date: 14/06/17

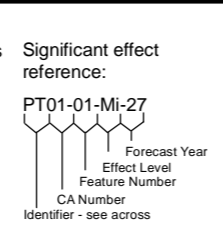
For Continuation Refer to Map Number TR-04-217-L1



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Operational Significant Effects**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent



- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number **TR-04-217-L2**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 5:
South Cheshire

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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Land potentially required during construction
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Construction significant effects:

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent
- Construction traffic route

Significant effects reference:

PT01-01-Ma

Effect Level
CA Number
Feature Number
Identifier - see across

Construction effects identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Map Number: TR-03-217-R1

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 5: South Cheshire

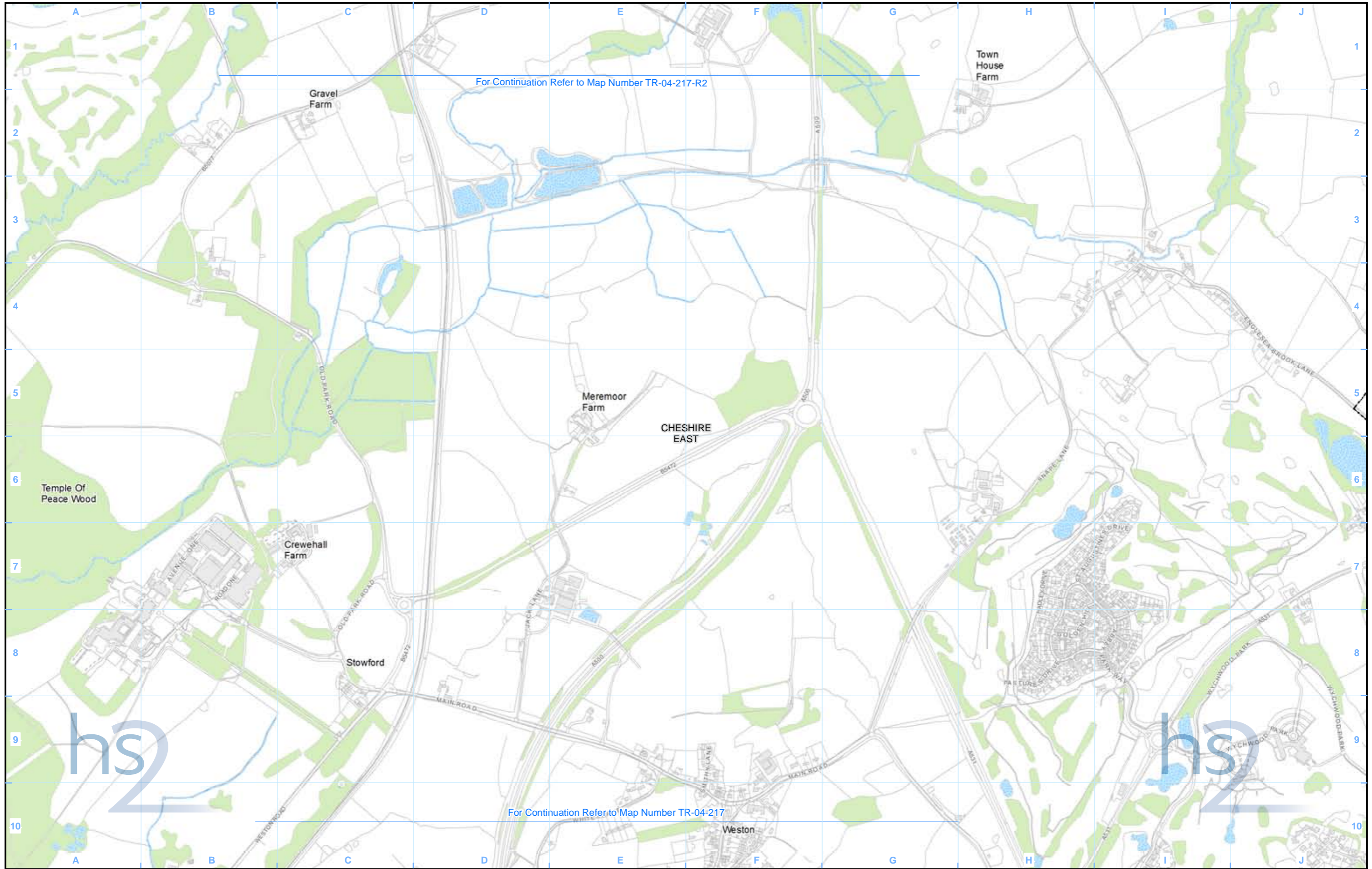
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Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Map Number **TR-04-217-R1**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 5:
South Cheshire

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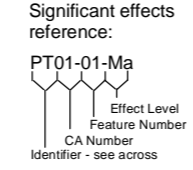
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- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary

- Watercourse
- Water body
- Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-217-R2

Map Name: Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes

Community Area 5: South Cheshire

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Date: 14/06/17



WHITMORE HEATH TO MADELEY

NEWCASTLE-UNDER-LYME DISTRICT

SOUTH CHESHIRE

CHESHIRE EAST

Barthomley

For Continuation Refer to Map Number TR-04-217-R1

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Significant effect reference:

PT01-01-MI-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

- Operational Effects Identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect Level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major
- Forecast Year:**
- 27 - Significant effect in 2027
 - 41 - Significant effect in 2041
 - Missing - Significant effect in both forecast years

Map Number **TR-04-217-R2**

Map Name **Significant Residual Transport Effects Arising from Operation**

Community Area 5:
South Cheshire

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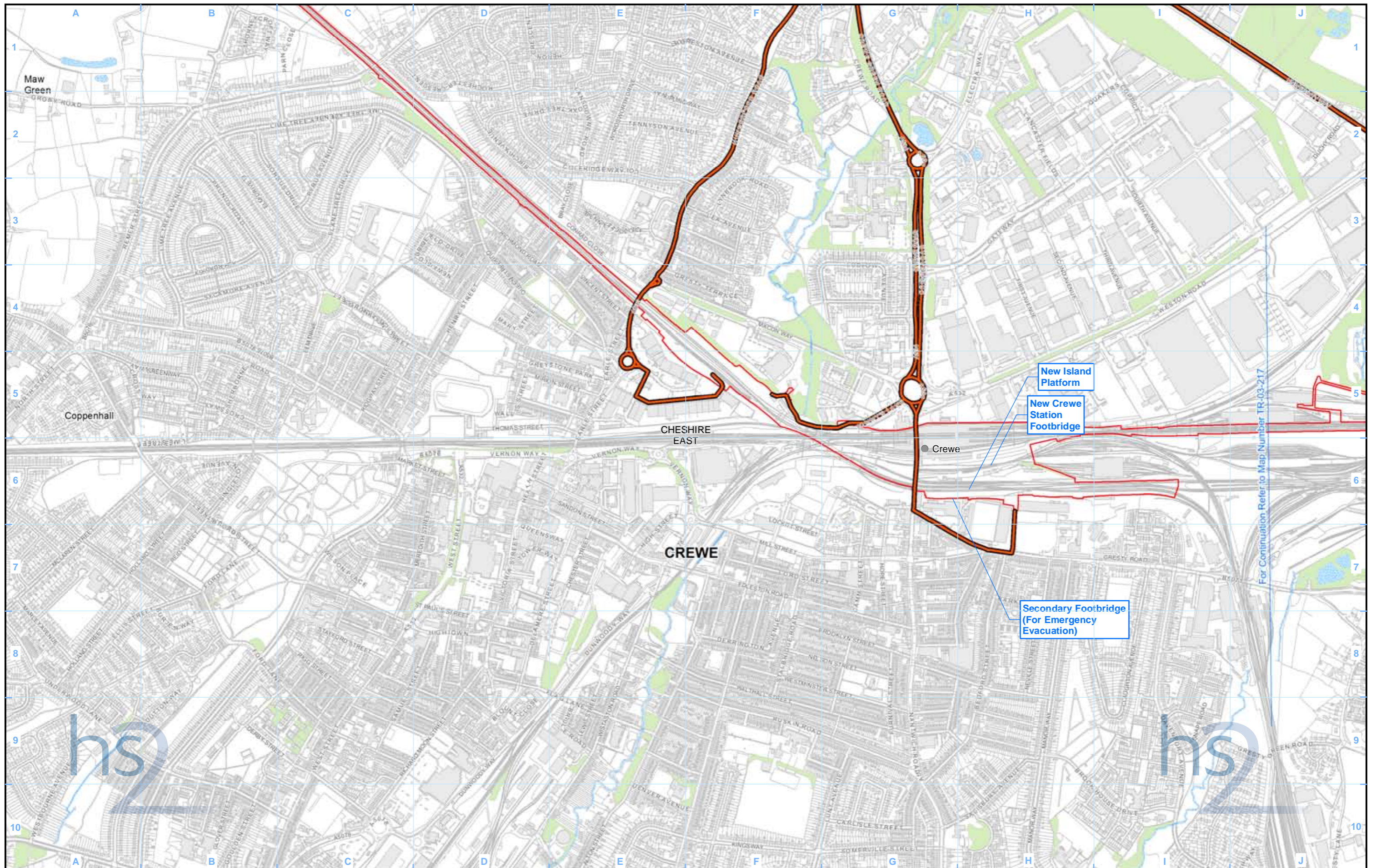
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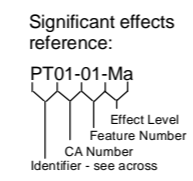
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Date: 15/06/17



- Legend**
- Route in tunnel
 - Route on surface
 - Depot, station, headhouse or portal building
 - Land potentially required during construction
 - Community area boundary
 - County boundary
 - District/Borough boundary
 - Watercourse
 - Water body
 - Woodland

- Construction significant effects:**
- Adverse-permanent
 - Adverse-temporary
 - Beneficial-temporary
 - Beneficial-permanent
 - Construction traffic route



- Construction effects identifiers:**
- PT - Public transport delay
 - D - Disruption at stations / interchanges
 - Tc - Traffic flows and delays to vehicle occupants
 - Td - Traffic diversion
 - Ts - Traffic severance - non-motorised users
 - P - Parking and loading
 - V - Vulnerable road user delays, amenity and ambience
 - A - Accidents and safety
 - S - Severance
 - W - Waterways

- Effect level:**
- Mi - Minor
 - Mo - Moderate
 - Ma - Major

Map Number: TR-03-218

Map Name: **Significant Residual Transport Effects Arising during Construction and Construction Traffic Routes**

Community Area 5: South Cheshire

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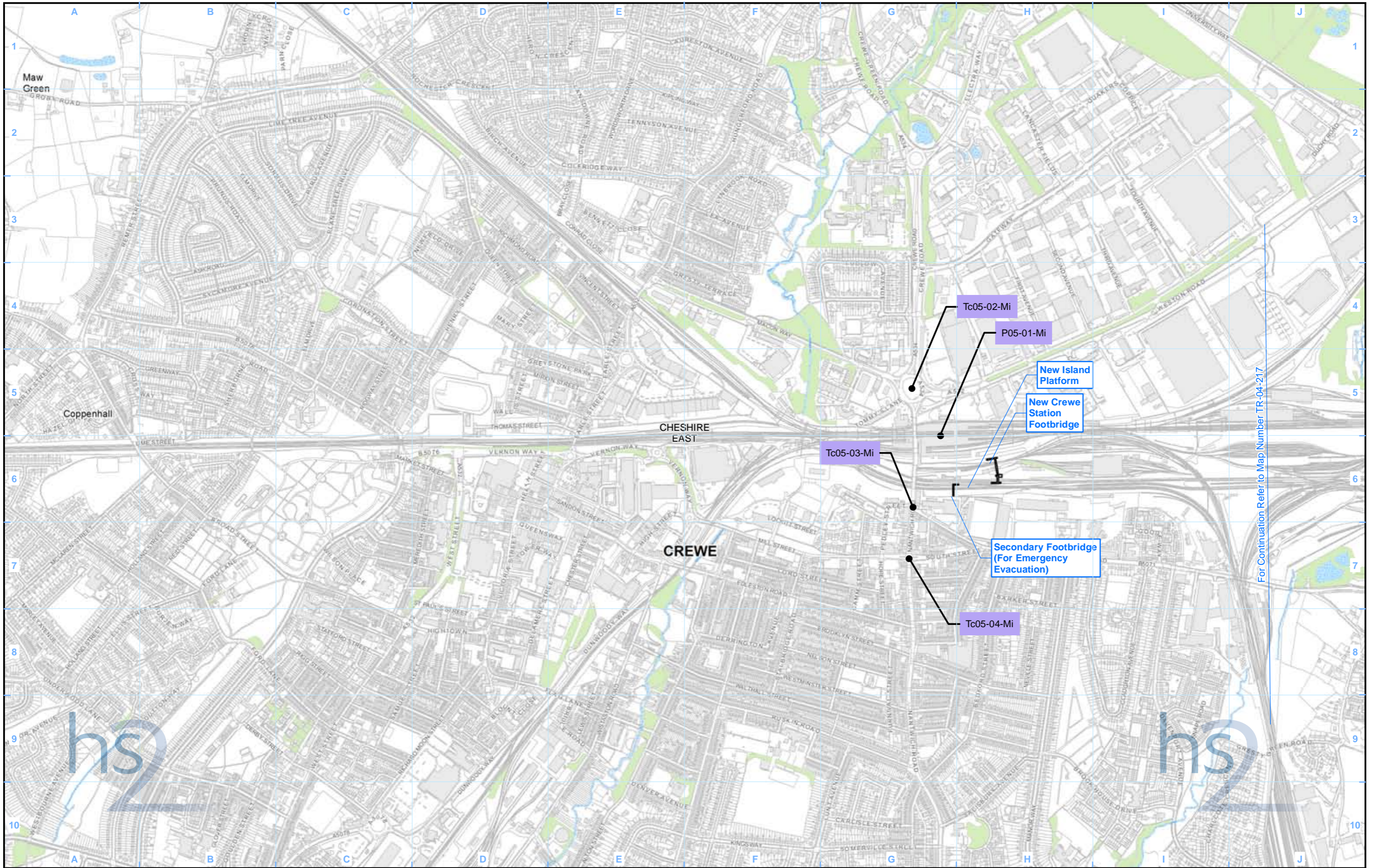
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Doc Number: C861-ARP-EV-MAP-000-143218 P04

Date: 14/06/17

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For Continuation Refer to Map Number TR-03-217



For Continuation Refer to Map Number TR-04-217

Legend

- Route in tunnel
- Route on surface
- Depot, station, headhouse or portal building
- Community area boundary
- County boundary
- District/Borough boundary
- Watercourse
- Water body
- Woodland

Operational Significant Effects

- Adverse-permanent
- Adverse-temporary
- Beneficial-temporary
- Beneficial-permanent

Operational Effects Identifiers:

- PT - Public transport delay
- D - Disruption at stations / interchanges
- Tc - Traffic flows and delays to vehicle occupants
- Td - Traffic diversion
- Ts - Traffic severance - non-motorised users
- P - Parking and loading
- V - Vulnerable road user delays, amenity and ambience
- A - Accidents and safety
- S - Severance
- W - Waterways

Effect Level:

- Mi - Minor
- Mo - Moderate
- Ma - Major

Forecast Year:

- 27 - Significant effect in 2027
- 41 - Significant effect in 2041
- Missing - Significant effect in both forecast years

Significant effect reference:

PT01-01-Mi-27

Forecast Year
Effect Level
Feature Number
CA Number
Identifier - see across

Map Number: TR-04-218

Map Name: **Significant Residual Transport Effects Arising from Operation**

Community Area 5: South Cheshire

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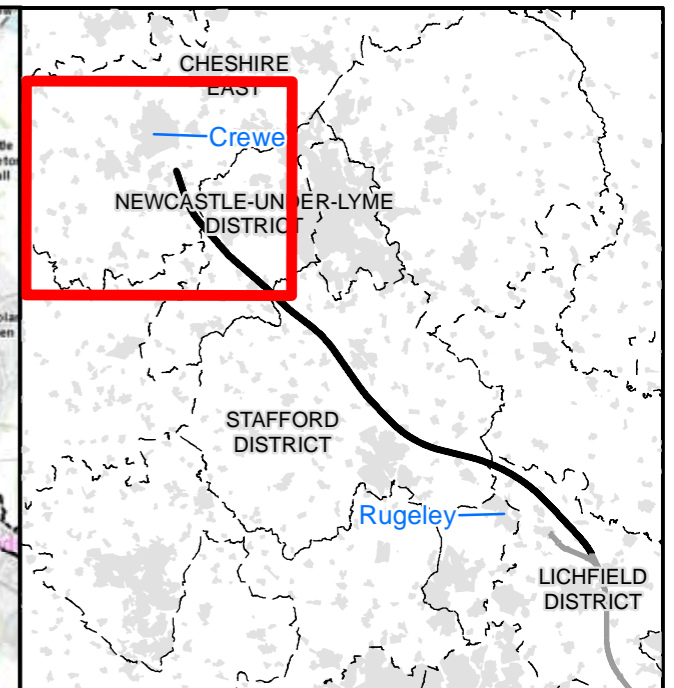
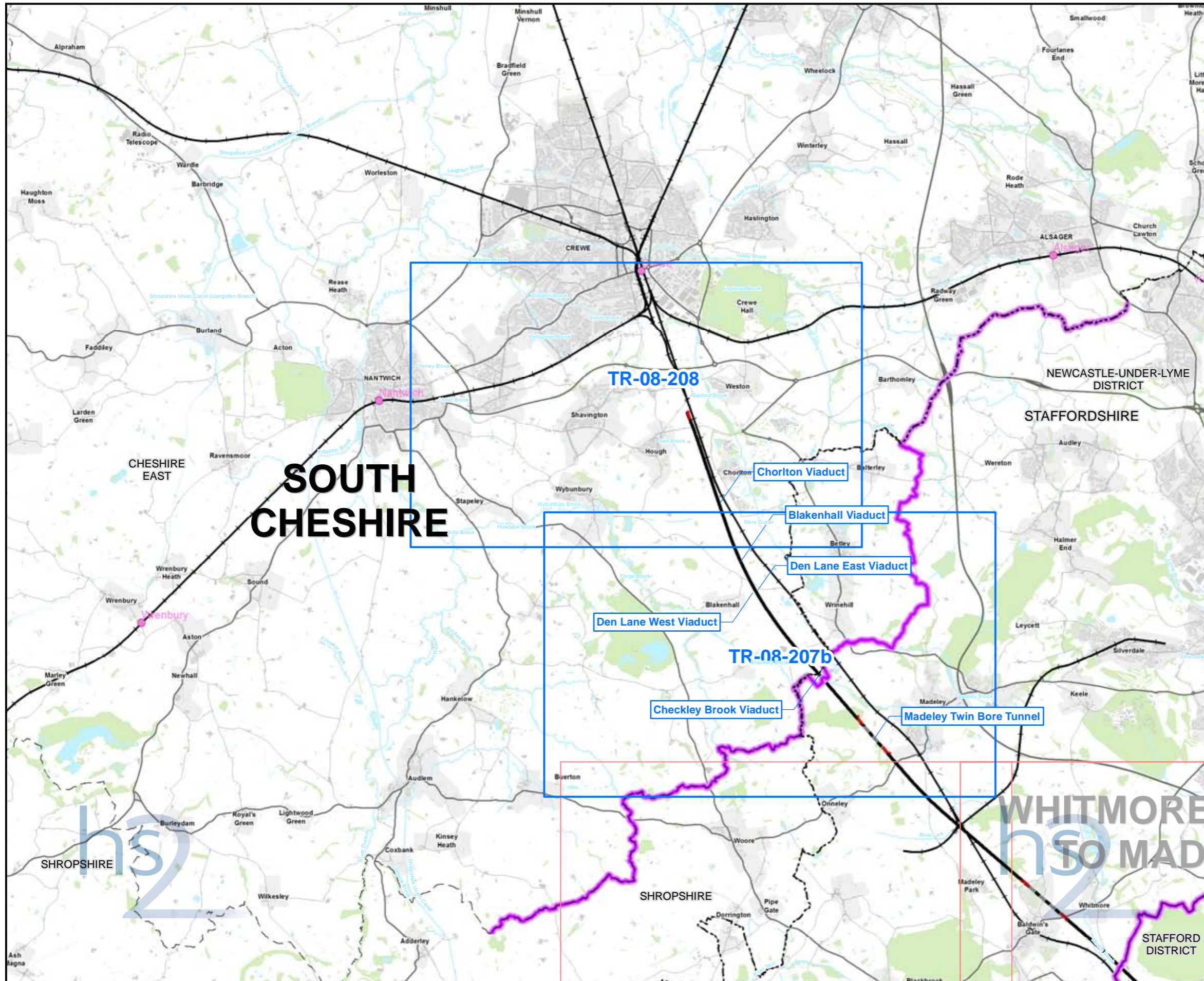
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Date: 15/06/17



Map Series Information:

This map series identifies the main construction access routes for construction compounds to and from the strategic highway network. Construction routes are the identified routes which Heavy Goods Vehicles (HGVs) will use between compounds and the main road network within each CA. Also shown is construction compound data which provides the transport activity at each compound including start-up date and duration of use of compound. For each compound the peak month of activity is the month within which HGV traffic is at its highest for that compound. The busy period is that period during which HGV traffic serving that compound will be greater than 50% of the HGV traffic in the peak month. The average daily combined two-way vehicle trips shown for the busy period is the lower end of the range shown in the table. The average daily combined two-way vehicle trips shown for the peak month is the upper end of the range shown in the table.

Main Map Legend	
	Route in tunnel
	Route on surface
	Depot, station, headhouse or portal building
	Community area boundary
	Existing railway station
	County boundary
	District/Borough boundary
	Map sheets included in this community area
	Map sheets not included in this community area

Map Number	TR-08-INDEX-CA5
Map Name	Index Map of: Construction Routes to the Strategic Network
	Community Area 5: South Cheshire

Note: Not all data layers in the legend are represented on every map.

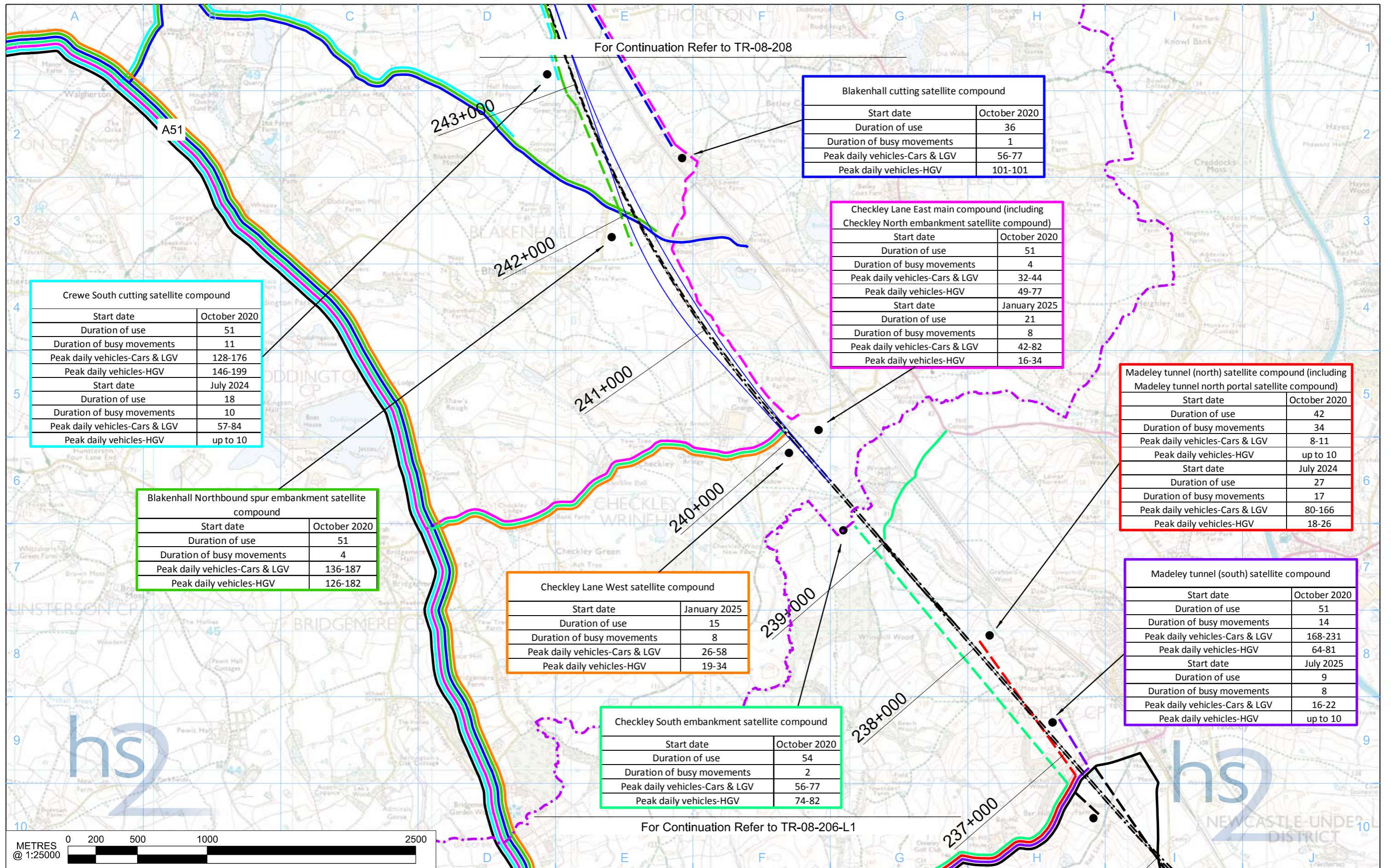
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For Continuation Refer to TR-08-208

Blakenhall cutting satellite compound	
Start date	October 2020
Duration of use	36
Duration of busy movements	1
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	101-101

Checkley Lane East main compound (including Checkley North embankment satellite compound)	
Start date	October 2020
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	32-44
Peak daily vehicles-HGV	49-77
Start date	January 2025
Duration of use	21
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	42-82
Peak daily vehicles-HGV	16-34

Crewe South cutting satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	11
Peak daily vehicles-Cars & LGV	128-176
Peak daily vehicles-HGV	146-199
Start date	July 2024
Duration of use	18
Duration of busy movements	10
Peak daily vehicles-Cars & LGV	57-84
Peak daily vehicles-HGV	up to 10

Blakenhall Northbound spur embankment satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	136-187
Peak daily vehicles-HGV	126-182

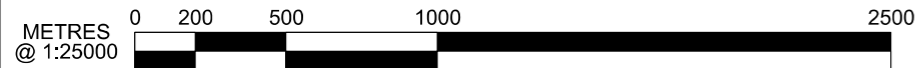
Checkley Lane West satellite compound	
Start date	January 2025
Duration of use	15
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	26-58
Peak daily vehicles-HGV	19-34

Checkley South embankment satellite compound	
Start date	October 2020
Duration of use	54
Duration of busy movements	2
Peak daily vehicles-Cars & LGV	56-77
Peak daily vehicles-HGV	74-82

Madeley tunnel (north) satellite compound (including Madeley tunnel north portal satellite compound)	
Start date	October 2020
Duration of use	42
Duration of busy movements	34
Peak daily vehicles-Cars & LGV	8-11
Peak daily vehicles-HGV	up to 10
Start date	July 2024
Duration of use	27
Duration of busy movements	17
Peak daily vehicles-Cars & LGV	80-166
Peak daily vehicles-HGV	18-26

Madeley tunnel (south) satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	14
Peak daily vehicles-Cars & LGV	168-231
Peak daily vehicles-HGV	64-81
Start date	July 2025
Duration of use	9
Duration of busy movements	8
Peak daily vehicles-Cars & LGV	16-22
Peak daily vehicles-HGV	up to 10

For Continuation Refer to TR-08-206-L1



- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: TR-08-207b

Map Name: Construction Routes to the Strategic Network

Community Area: CA5 South Cheshire

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Basford Cutting main compound	
Start date	October 2020
Duration of use	36
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	400-550
Peak daily vehicles-HGV	88-93

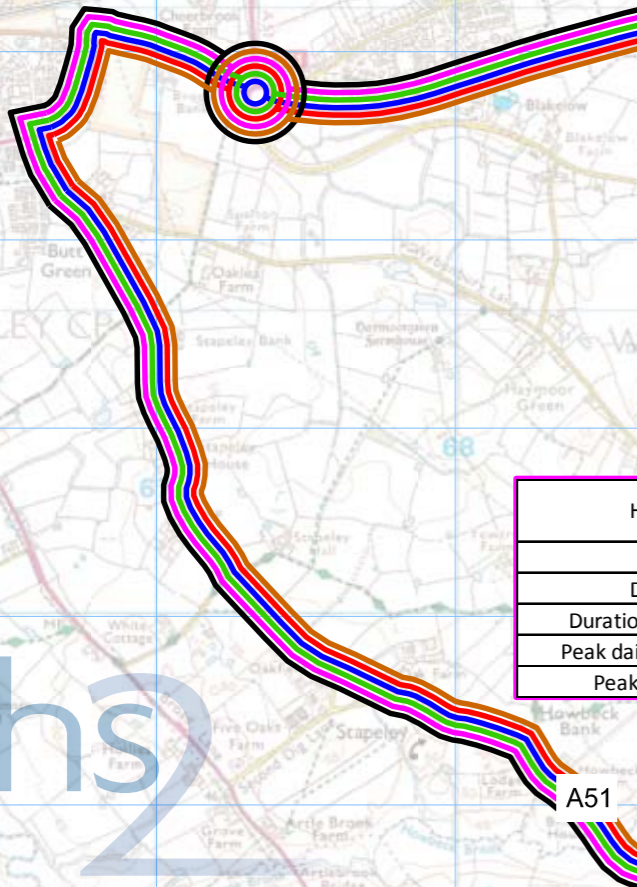
Motorail Terminal main compound	
Start date	October 2020
Duration of use	33
Duration of busy movements	3
Peak daily vehicles-Cars & LGV	130-130
Peak daily vehicles-HGV	11-25

Basford Cutting transfer node	
Start date	October 2020
Duration of use	51
Duration of busy movements	12
Peak daily vehicles-Cars & LGV	N/A
Peak daily vehicles-HGV	615-930

Crewe South portal satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	16
Peak daily vehicles-Cars & LGV	24-33
Peak daily vehicles-HGV	54-86
Start date	January 2024
Duration of use	33
Duration of busy movements	4
Peak daily vehicles-Cars & LGV	23-114
Peak daily vehicles-HGV	up to 10

Heath Farm satellite compound	
Start date	July 2025
Duration of use	9
Duration of busy movements	6
Peak daily vehicles-Cars & LGV	29-32
Peak daily vehicles-HGV	28-32

Chorlton cutting satellite compound	
Start date	October 2020
Duration of use	51
Duration of busy movements	5
Peak daily vehicles-Cars & LGV	32-44
Peak daily vehicles-HGV	59-89



For Continuation Refer to TR-08-207

- Legend**
- Compound Traffic Routes
 - Site Haul to Compound
 - Through Construction Traffic Routes (To/From Other Scheme Compounds)
 - HS2 Route
 - Onward Construction Routes
 - Community Area boundary
 - Through Site Haul to Compound (To/From Other Scheme Compounds)
 - Movement of Excavated Material
 - Construction Compounds

Rail system compounds are shown where they are likely to generate more than 24 HGV movements a day in the peak month (average two-way) or are associated with a construction civil engineering works compound

Map Number: **TR-08-208**

Map Name: **Construction Routes to the Strategic Network**

Community Area: **CA5 South Cheshire**

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