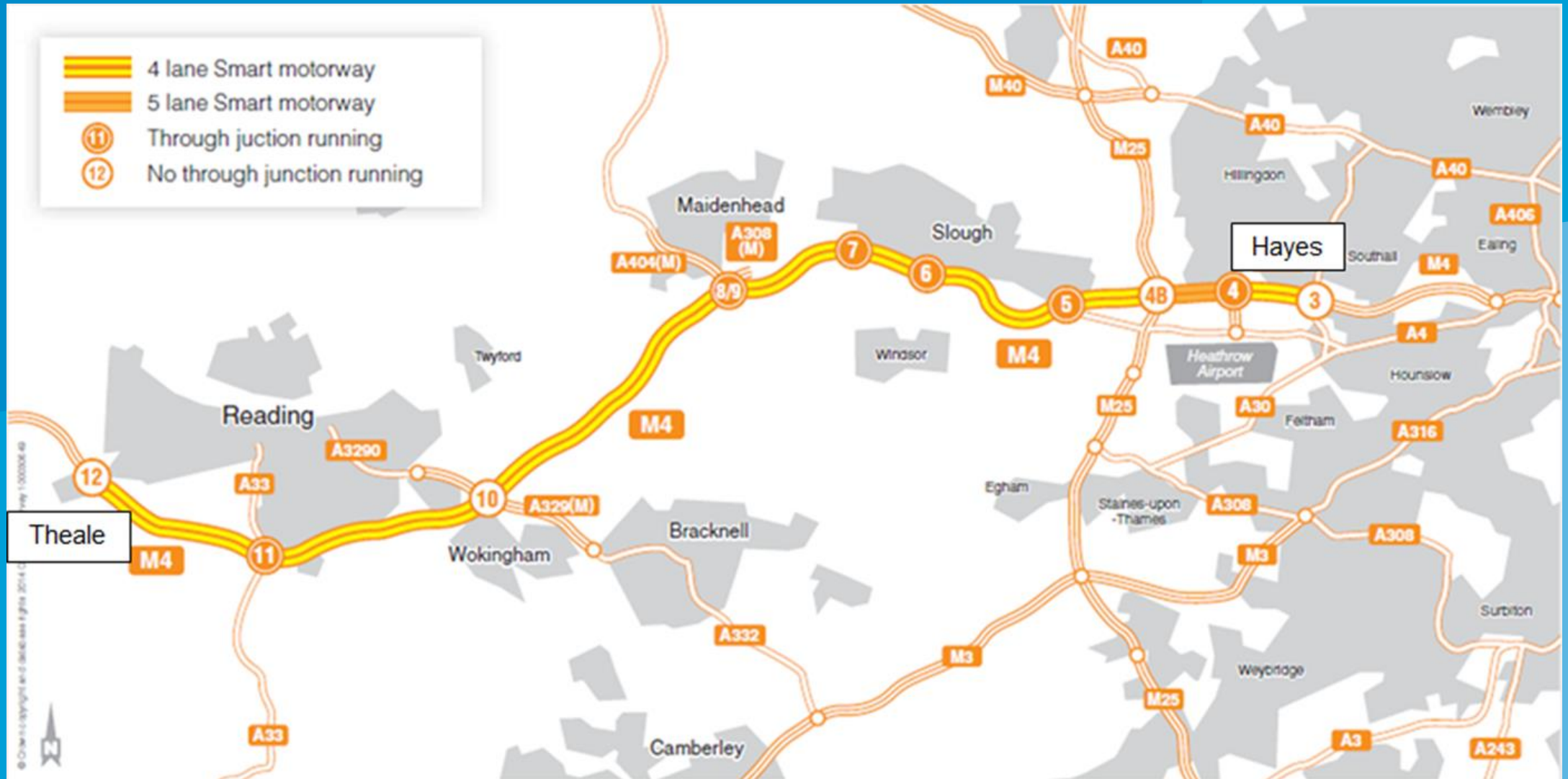


Principal Designer Working Group

Event No 32

M4 Jn 3 – 12 SMP:- CDM, HSF & Handover Lessons Learnt
Mark Lamport, Arcadis Jacobs JV


13th July 2023



Lessons Learnt from M4 Jn 3 – 12 SMP – CDM General

- CDM roles (CDM Client, Designer, PD and PC) for statutory undertakers' diversion works need to be considered and agreed during the pre-construction stage. Co-ordination needed to ensure utility diversion works do not conflict with PW design – or other utility diversions.

Lessons Learnt from M4 Jn 3 – 12 SMP – CDM General



Major Projects Instructions	
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Audience: NH and NH Supply Chain	
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Lessons Learnt from M4 Jn 3 – 12 SMP – CDM

General

- Importance of regular engagement with OD Teams regarding provisions in the design for inspection and maintenance e.g. changing risk profiles for existing assets, such as embankments with limited verge areas and steep slopes where customers may seek refuge.

Lessons Learnt from M4 Jn 3 – 12 SMP: H&S File

- NH requirements for H&S Files are confusing, contradictory and have gaps. IAN 105/08 (which refers to CDM 2007) is still not withdrawn.
- Ensure that outline structure (and template) of the H&S File has been formally agreed, eg use of the H&S File template Health and Safety File Template and Guidance HSPT005.3 which is referred to in the H&S File PCF product guidance but is not mandated.
- Understand relevant content of the EIR.
- The H&S File template, Section 1.4.2: states “Unless otherwise stated in contract or instruction, that the Principal Contractor (PC) will prepare the Construction Phase Health and Safety file for final submission and it will be reviewed by the Principal Designer Lead Representative....” Is this what happens in practice and is it the appropriate approach?
- Confusion over asset handover folder structure and alignment with NH BC – 7 volume, 10 volume, 12 volume etc. Does it actually matter provided that the information is collated in a structured manner?

Lessons Learnt from M4 Jn 3 – 12 SMP HES & As-Built Drgs

- Ensure that the Designer's and Principal Contractor's HES/Design Risk Management Schedule contains sufficient detail to identify each hazard location in 2D space.
- Principal Contractor's HES needed to record hazards created by the construction process, eg temporary works left in place.
- SHE box standardisation.
- Standardisation of drawing notes regarding significant residual hazards and cross-references to the Designer's HES and Principal Contractor's HES.
- Standardisation of drawing notes regarding services.

Lessons Learnt from M4 Jn 3 – 12 SMP - Handover

- Understand which versions of the NH Standards are being used for Handover eg IAN 182/GG182 (Handover), IAN184/GG184 (BIM) - make sure this is clearly documented in the Implementation of New Standards Report. Can the end user actually make use of the BIM model?
- Ensure that maintenance responsibilities for assets such as new side road structures and associated earthworks which are to be handed over to other parties, such as LAs, have been formally agreed (consider adoption of “Guidance - Definition of Asset Management Responsibilities: Bridges and Structures”, February 2022).
- PD is not a designated Consultee for the MRS – but should be?
- Allow for lengthy contractual Consultation periods, eg 28 days for DBFOs.
- Construction Handover Manager, Design Handover Manager and PCF Product Manager are key roles.

Guidance

Definition of Asset Management Responsibilities: Bridges and Structures

Department for Transport/ADEPT/UKRLG/National
Highways

Date of issue: February 2022

Managing Network Occupancy – Boundaries on Structures

Introduction

This document provides guidance for Local Highway Authorities and National Highways to assist the agreement of Operational and Maintenance Boundaries for bridges and other structures at points of interface between local roads and the Strategic Road Network. There is also some guidance on ownership adjacent to private property for retaining walls.

Lessons Learnt from M4 Jn 3 – 12 SMP: Handover Documents

- Lack of NH guidance on structure and content of the O&M Manual and Design Strategy Record. Is the DSR *actually* a live document and subject to regular review with OD?
- Importance of ensuring that documents have the correct NH BC compliant metadata – incorrect or inadmissible codes (eg 3 digit volume codes) caused problems. The MIDP (and TIDPs) must be maintained correctly.
- H&S File programme is dependent on availability of information from other key supporting documents: Designer and PC Hazard Elimination Schedules, MRS, O&M Manuals, as-built drawings (including as-built services drawings).

Q&A