

MCHW review updates
UK Bridges Board/Bridge Owners Forum
15th September/19th October 2021
Neil Loudon

Purpose and content of meeting

- Learning lessons from DMRB Review
- Initiating structures MCHW work
- Document Development Plan (SHW, IfS, WSI)
- National variations
- MCHW review - DMRB consequential changes
- Procuring the consultant support
- Programme
- Industry liaison
- Liaison with Transport Scotland, Welsh Government, Department for Infrastructure Northern Ireland
- TSC roles and consultation
- NetZero
- Brexit
- Post delivery support – data, training, webinars, implementation, assurance

DMRB REVIEW – Learning Lessons



- Huge challenge across all the asset disciplines – geotechnics, drainage, VRS, lighting, pavements, tunnels and structures
- Structures – 100+ documents evolved into c.60
- Managing the programme, arranging and coordinating consultant support, CARS and JIRA input, reporting, ensuring delivery, feedback
- Drafting, consultation via TPB, working with TAGG, publication, implementation, promotion (articles and webinars), training, assurance, support for the business (Ops and MP)
- 8 structures webinars available
- https://www.youtube.com/playlist?list=PLS_yP8jucapY9isafq8qd2_0CTjKxHRSk
- 11 pavements webinars available
- https://www.youtube.com/playlist?list=PLS_yP8jucapZer8rPszvIMEKY1tyDB-2t
- Feedback on standards
- standards_enquires@highwaysengland.co.uk

MCHW REVIEW – Scale of work



Discipline	Number of Documents				
	New DMRB (for comparison)	MCHW			
		Volume 1	Volume 2	Volume 3	Volume 4
Asset information	1	6			
Customer experience	9				
Drainage	18	5	1	2	
Geotechnics	6	9	3		
Health and safety	3	2			
Pavements	10	5	5	3	
Road lighting	4	2	2	1	
Safer roads design	20				
Safety risk	1				
Smart roads	3				
Structures	57	15	11	3	
Sustainability and environment	21	2	2	2	
TAGG	2	14	4	1	
Control and communication technology	8	2	2	6	
Procurement		2			3
		64	30	18	3
Total	163	115			
Number of pages	7,000	3,727			

MCHW REVIEW – Structures Content and Input

	400Road Restraint System (Vehicle and Pedestrian)
	1300Road Lighting Columns and Brackets, CCTV Masts and Cantilever Masts
	1400Electrical Work for Road Lighting and Traffic Signs
	1600Piling and Embedded Retaining Walls
	1700Structural Concrete
	1800Structural Steelwork
	1900Protection of Steelwork Against Corrosion
	2000Waterproofing for Concrete Structures
	2100Bridge Bearings
	2300Bridge Expansion Joints and Sealing of Gaps
	2400Brickwork, Blockwork and Stonework
	2500Special Structures
	2600Miscellaneous
	5000Maintenance Painting of Steelwork
	5700Concrete Repairs
	Cathodic Protection
	FRP Strengthening
	7000General Requirements
	7100Mechanical, Electrical and Communications Work for Road Tunnels
	7200Mechanical, Electrical and Communications Work for Movable Bridges and Bridge Access Gantries
	7300Testing and Inspection for Road Tunnels, Movable Bridges and Bridge Access Gantries
Appendix A	Quality Management Systems
Appendix B	Product Certification Systems
Appendix C	Certification for Proprietary Products
Appendix E	Type Approval / Registration
Appendix H	Quality Records



MCHW Review

Overall plan



- Highways England licence requirement to update the MCHW
- To be completed in second control period (RIS2) Apr 20 – Mar 25
- Completing document development plans now
- Document development plan for each MCHW series
- All MCHW to be drafted by Dec 23
- All updated MCHW published together by Mar 25 at latest

MCHW Review



- Challenges are around timescales, volume of work, resources and detail
- Detailed programme and costs for the MCHW Review
- DMRB changes required – appear to be extensive adding significantly to the document count
- Procurement of consultant technical support to assist authoring – tenders received
- Initial consultation with Transport Scotland, Welsh Government, and Department for Infrastructure Northern Ireland – National variations
- New Technical Project Board (TPB) processes developed called Technical Standards Committees (TSC) and to ensure improved engagement of consultees
- For MCHW Review – wider industry consultation through TSC eg. BCSA, Concrete Centre
- Implications of Brexit and transition to UKCA product markings (now January 23)
- Implications of NetZero carbon strategies
- Safety, risk management and benefits
- Many other important standards related activities happening in parallel with MCHW Review such as DMRB periodic reviews, and adopting 2nd generation of Eurocodes
- Ensuring MCHW delivery whilst balancing other work

TSC process and MCHW management

- TSC roles
 - Chair – Neil Loudon (additional responsibilities)
 - Technical secretary – Michael Lewis
- Industry liaison
- Liaison with Transport Scotland, Welsh Government, Department for Infrastructure Northern Ireland - initial meeting held
- TSC consultation

MCHW Review – other considerations

- NetZero carbon – NH strategy published and implications for MCHW to be assessed?
- Brexit – clause 101
- Product certification schemes – clause 104
- Implementation of MCHW
- Post delivery support – data, IAM-IS enhancements, training, webinars, contractual implementation, assurance (this is all part of the process)

DMRB/MCHW UPDATE

- Thanks and any questions

