

10 March 2022

OVERVIEW OF UPDATES

STANDARD SPECIFICATION FOR ROADWORKS V5.0

The significant updates to the Standard Specification for Roadworks V5.0 are shown below.

FEEDBACK

If you have any suggestions for improvement, such as additional or modified text for the Roadworks specification, please contact the Manager Specification Services via specification.services@nt.gov.au

UPDATES

Table – Overview of Updates to Roadworks Specifications – 10 March 2022		
CLAUSE		CHANGE
Definitions expanded and tabulated at each work section. Web page URLs updated. Legislation references updated. New work section - 15 Boat Ramps and Barge Landings – all subsequent work sections renumbered. Some clauses and sub-clauses moved within the specification.		
01 MISCELLANEOUS PROVISIONS		
1.16	Utilities and other services passing under existing pavements	New clause - Directional boring mandated.
1.18	Work near traffic count stations or near culweigh stations	Culweigh stations added.
1.20	Control station check survey	Requirement for Contractor to verify site levels match levels on drawings.
1.21	Surveys and setting out	New clause – added in lieu of selection via TDO
1.22	Survey pegs	New clause – added in lieu of selection via TDO
1.30.2	Documents to be submitted to Technical Records, and to Superintendent	New clause – manuals and permits to be submitted
1.30.3	Warranties	New clause – warranties to be provided
1.30.4	Certificates of compliance	New clause – certificates to be provided
1.30.5	Compliance – Traceability of components	New clause – ensure compliant components used
1.30.6	List of plant and equipment installed	New clause – list(s) to be provided
02 PROVISION FOR TRAFFIC		
Significant changes made throughout the work section. Not all changes are listed below.		
2.1	General	Traffic control for Conformance Testing activities specified
2.1.1	Duty of Care	New clause
2.1.2	Risk Management	New clause
2.2	Standards and publications	Austroads Guide to Temporary Traffic Management, Code of Practice for Construction Work, and Code of Practice for Excavation Work referenced
2.5	Workzone traffic management	NT Workzone Traffic Management ID Card mandated. Qualification in safe work in construction industry mandated. Course code and Units of Competency codes updated.
2.16	Excavations, stockpiles, and gradients within work zones and clear zones	Austroads Guide to Temporary Traffic Management cited. Requirements for stockpiles and/or dumped material, made explicit.
2.17	Temporary pavement marking	Requirements made explicit.
03 CLEARING GRUBBING AND REHABILITATION		
		No changes

Table – Overview of Updates to Roadworks Specifications – 10 March 2022

CLAUSE		CHANGE
04 EARTHWORKS		
4.3	Definitions	Material properties definition added. Subgrade compaction requirement added to definition.
4.6	Fill material	Material properties differentiated from properties of completed works. Material to be free of organic matter.
4.8	Earthworks for drainage	Requirements made explicit.
4.16.2	Conformance - Tolerances	Reference to new table in PAVEMENTS AND SHOULDERS.
05 CONFORMANCE TESTING		
5.1	General	Traffic Control for Conformance Testing mandated.
5.11	Lot Testing - Table – Dry density ratios for conformance	Compaction for subgrade abutting existing pavement made explicit
06 PAVEMENTS AND SHOULDERS		
6.2	Definitions	Material properties definition added. Subgrade compaction requirement added to definition.
6.3.1	Material Properties – Natural Gravel – Table – Natural Gravel Properties	Made explicit that shoulder material is unsealed
6.7	Pavement acceptance	Guide Note on pavement acceptance cited
6.7.8	Pavement acceptance – Other tolerance requirements	Requirements made explicit for where new works abut existing works. Other requirements made explicit. New Table – Relative height tolerances for new works abutting existing works.
07 STABILISATION AND MODIFICATION		
		No changes
08 SPRAY SEALING		
8.1	Standards, Codes, Guides, Test Methods, and Acts	List of applicable documents updated and expanded
8.3	Scope	Under path growth inhibitor added to specification.
8.4.8	Material requirements – Polymer modified binder	Quality Assurance requirements made explicit. New/updated Table – Properties of PMBs for sprayed sealing applications. New Table-Properties of field-produced crumb rubber binders. New specification content for crumb rubber. New Table- Properties of crumb rubber.
8.4.9	Material requirements - Geofabric	New specification content
8.5	Sprayers and personnel	AP-T262/14 cited.
8.6	Final preparation of pavement surface	Requirements regarding dampening made explicit.
8.7	Setting out	Inclusion of widenings made explicit.
8.8.1	Binder coat requirements - General	Significant new content. New/updated Table – Binder type requirements - General
8.8.2	Binder coat requirements – Prime, primer seals, seals, pre-coats, and enrichment coats	Seals and pre-coats added. Emulsion primes added.
8.8.3	Binder coat requirements – Straight run binder coats	Requirements made explicit.

Table – Overview of Updates to Roadworks Specifications – 10 March 2022		
CLAUSE		CHANGE
8.8.4	Binder coat requirements – PMB coats	SAMI added
8.9.5	Binder coat requirements – Collection of samples	Sampling points requirements made explicit.
8.9.6	Binder coat requirements – Sample identification	Requirement to provide samples daily made explicit.
8.10.1	Stockpile sites	Requirements for stockpiles in rural areas made explicit.
8.11	Precoating aggregate	Requirements for precoating SAMI aggregates added
8.13	Spraying	Requirement to allow for different spray rates for different traffic lanes or paths of travel in the same section of roadway
8.13.3	Spraying – Application spray rates	URL added for DIPL Technical Directive about AGPT 4K. Significant changes to clause.
8.13.6	Sprayer run	Requirements related to distribution, and to blocked jets, made explicit.
8.14	Application of geofabric	Significant changes to content.
8.15	Application of aggregate	Time delays permitted if extreme road surface temperatures are encountered.
8.17	Waste material	Fourth sweep specified
8.20.1	Bitumen equivalent volumes	Two new tables.
8.21	Price adjustment for bitumen	New clause
09 DENSE GRADED ASPHALT		
9.2	Standards and publications	ATS 3110 cited. ATM 453 cited. Bituminous rise and fall standard cited.
9.3	Definitions	Material properties definition added.
9.4	Asphalt mix design	Clause relocated. Requirements for registration of mix design made explicit.
9.5.1	Traffic categories – Under path growth inhibitor	New clause
9.6.4	Materials - RAP	New clause
9.7	Binders	New/updated clause
9.8	Sampling of binder	New/updated clause
9.9	Paving plans	New clause
9.10.3	Surface preparation – Cold planing	Maximum cutting speed specified
9.10.6	Surface preparation – Tack coat	Requirements made explicit
9.14.6	Compaction – Joint compaction	Requirements for compliance made explicit
9.15.2	Conformance – Process testing	Requirements made explicit
9.15.3	Conformance – Finished pavement properties	ATM 453 cited in Table – Surface shape requirements. Table – Relative height tolerances for new works abutting existing works in PAVEMENTS AND SHOULDERS cited
9.16	Price adjustment for bitumen	New clause
10 SLURRY SURFACING		
		No changes
11 MISCELLANEOUS CONCRETE WORKS		
11.3.6	Materials - Reinforcement	Plastic reinforcement supports specified

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CLAUSE		CHANGE
11.3.8	Materials – Under path growth inhibitor	New clause
12 DRAINAGE WORKS		
12.6.10	Construction of culverts and structures - Backfill	Backfill stabilisation with cement specified for full width between headwalls
13 PROTECTION WORKS		
		No changes
14 ROAD FURNITURE AND TRAFFIC CONTROL DEVICES		
14.4	Tactile ground surface indicators	Clause re-written – all new content.
14.6	Plastic flexible guide posts	Steel flexible guide posts and Testing split off to separate clauses
14.7	Steel flexible guide posts	New clause
14.8	Testing of flexible guide posts	New clause
14.9.3	Road signs – Remotely activated road condition information signs	New clause
14.9.4	Road signs - Materials	New Table – Roadside signs – Mounting selection
14.9.7	Road signs - Installation	Clause rewritten
14.9.8	Road signs – Reinstatement and relocation of existing signs	Clause rewritten
14.12.3	Road safety barriers – Steel beam guardrail system - Installation	Requirement for delineators added
14.13	Road safety barriers – Steel wire rope system	Requirement for delineators added
15 BOAT RAMPS AND BARGE LANDINGS		
		New work section
16 PAVEMENT MARKING		
16.4	Contractor accreditation	Exemption limitations made explicit
16.9	Pavement marking conformance tolerances	Table – Dimensional tolerances for pavement markings – Tolerance is zero if no value in table - Requirements for aerodromes differentiated from other locations
16.11	Thermoplastic materials	Approver amended
16.12	Cold applied plastic materials	Approver amended
16.13	Audio tactile line marking	Approver amended
17 LANDSCAPE		
		No changes
18 DUCTING AND CONDUITS		
18.1	Cross references	Services to cross below existing pavements clause in MISCELLANEOUS PROVISIONS cited
19 TRAFFIC CONTROL SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS		
19.1	Cross references	Services to cross below existing pavements clause in MISCELLANEOUS PROVISIONS cited
19.2.3	Standards and publications – Civil standard drawings	New content added to table
20 TRAFFIC COUNTING STATIONS		

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CLAUSE		CHANGE
20.1	Cross references	Services to cross below existing pavements clause in MISCELLANEOUS PROVISIONS cited
20.2.2	Standards and publications – Civil standard drawings	New content added to table
21 STREET LIGHTING		
21.2	Cross references	Services to cross below existing pavements clause in MISCELLANEOUS PROVISIONS cited
22 DIRECTIONAL BORING		
22.2	Cross references	Services to cross below existing pavements clause in MISCELLANEOUS PROVISIONS cited
23 PROTECTIVE COATINGS		
		No changes
24 MEASUREMENT AND PAYMENT		
24.2.3	Gravelling of detours	Maintenance and rehabilitation included
24.7.2	Supply and spread binder	In-situ methods
24.8	Spray sealing	Reference to Rise and fall added
24.8.2	Under path growth inhibitor	New item
24.9.2	Dense graded asphalt - Under path growth inhibitor	New item
24.11.1	Miscellaneous concrete - Footpaths	Under path growth inhibitor added
24.15	Boat ramps and barge landings	New clause for new work section
24.16.3	Pavement marking – Line markings	Measurement method altered for chevrons and speed humps
25 REFERENCED AUSTRALIAN STANDARDS		
		Additional citations added to table
26 OTHER REFERENCED AUTHORITIES AND DOCUMENTS		
		Austrroads Guide to Temporary Traffic Management (AGTTM), BS 1881, IALA E-108, IALA E-200-1 added to table
27 ACTS, REGULATIONS, CODES, AND AUTHORITIES		
		No changes
28 CIVIL STANDARD DRAWINGS FOR ROADWORKS		
		Traffic signals related CS drawings added to table
29 NORTHERN TERRITORY CLIMATE ZONES TABLE		
		No changes
30 HOLD POINTS AND WITNESS POINTS SCHEDULES		
		Updated
31 UPDATES OVERVIEW		
		New updates overview