

# **STANDARD SPECIFICATION FOR ROADWORKS 2017**

**SCHEDULES**

**HOLD POINTS**

**WITNESS POINTS**

# STANDARD SPECIFICATION FOR ROADWORKS 2017

SCHEDULES

HOLD POINTS

WITNESS POINTS

## PROJECT INFORMATION

Project Number; .....

RFT Number; .....

**Project title;**

.....  
.....  
.....

**Superintendent;**

Name; .....

Phone number; .....

**Contact person** (Project Manager/Officer)

Name; .....

Phone number; .....

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**1. HOLD POINTS AND WITNESS POINTS SCHEDULES**

**1.1 SCHEDULE 1 - HOLD POINTS**

<b>Schedule 1 – Hold Points</b>				
<b>CLAUSE TITLE</b>	<b>SECTION</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
Misc. Provisions - Camp Site/Compound/Workshop - Obtain written permission from the owner or lessee of the land.	1.7	8		
Misc. Provisions - Explosives - Obtain approval from Superintendent before commencing blasting operations	1.10	9		
Misc. Provisions - Work Health and Safety Management Plan - If the Act requires it, provide a Work Health and Safety Management Plan within 14 calendar days of award of the contract. Do not commence works until the Superintendent has advised that the Work Health and Safety Management Plan may be used.	1.12.1	10		
Misc. Provisions - Work On Railway Sites - Do not commence work until the work plan has been approved by the owner and operator of the rail system.	1.14	10 & 11		
Misc. Provisions - Work In The Vicinity Of Traffic Counting Stations - Prior to commencing any excavation, boring of holes, blasting, rock breaking, soil compaction or similar activity in the vicinity of traffic counter station detector loops, obtain the location of the cables from the Department, Transport Planning Division, Data Contracts Officer and pay all fees.	1.15	11		
Provision For Traffic - Traffic Management Plan - – Submit the Traffic Management Plan, with the Traffic Control Diagrams prior to commencing the works.	2.5.1	16		
Provision For Traffic - Work In Rural Areas - Undertake work during daylight hours only unless approval is given by the Superintendent for special circumstances.	2.7	17		
Provision For Traffic - Work In Built Up Areas - Working Times - Obtain Superintendent's approval if proposing to work inside the hours between 0700 and 0900 or between 1530 and 1730.	2.8.1	17		
Provision For Traffic – NT Specific Signs - Non-Standard Signs - Obtain specific approval from the Superintendent before using signs not included in AS 1742.3.	2.10.4	19		
Provision For Traffic – NT Specific Signs - Temporary Speed Limits - Submit temporary speed limit authorisation applications to alter speed limits to the Superintendent, 2 working days prior to the implementation of temporary speed limits, for approval under the Control of Roads Act.	2.10.8	20		
Provision For Traffic - Temporary Bridging - Obtain written approval from the Regional Manager, Road Projects prior to commencement of any such works.	2.17	22		
Provision For Traffic - Temporary Bridging - Provide copies of approvals obtained by Contractor to the Superintendent prior to the commencement of the works.	2.17	22		

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Provision For Traffic - Plant & Equipment - Floodlighting - On roads carrying significant traffic, floodlight the road and area within 50 m of the site when working at night, if approved by the Superintendent, to a ground level luminance of 10 lux minimum.	2.18	22		
Provision For Traffic – Portable Traffic Signals - Temporary Speed Limits - Work zone speed limits require approval from the Superintendent prior to implementation.	2.21.1	23		
Earthworks – In Cut - Excess Material - Obtain approval from Superintendent prior to hauling, dumping and spreading excess material.	4.3.2	27		
Earthworks – In Cut - Rock In Subgrade - Obtain agreement from the Superintendent to the extent of the excavation.	4.3.3	27		
Earthworks – In Cut - Unsuitable Material Below Subgrade Surface Other Than Rock - Obtain directions from the Superintendent before works commence	4.3.4	27		
Earthworks – In Fill - Unsuitable Material Beneath Fill - Obtain directions from the Superintendent before works commence	4.4.4	28		
Earthworks – Bridge Foundations – Excavation – Inspection Record - Obtain Superintendent's agreement with inspection record of current conditions	4.12.2	31		
Earthworks – Bridge Foundations – Excavation – Foundation Surface - Obtain the Superintendent's approval for the foundation surface before placing the blinding concrete	4.12.2	31		
Earthworks - Conformance – Proof Rolling - Submit a proof rolling procedure to the Superintendent for approval including the proposed method of preparing the areas and the extent of proof rolling.	4.15.3	32		
Earthworks - Conformance – Conformance Testing – Obtain the Superintendent's approval of subgrade conformance prior to placing further material	4.15.4	32		
Conformance Testing - ITP submission - Submit ITPs, detailing all procedures and test plans to be undertaken to complete the project, before commencing work	5.4	34		
Pavements And Shoulders – Construction - Process Control Testing - Provide the Superintendent with a program and procedure for process control testing for the project within 14 days of the awarding of the contract and before work is commenced on site	6.4.1	49		
Pavements And Shoulders – Conformance - Proof Rolling – Submit a proof rolling procedure to the Superintendent for approval including the method of preparing an area and the extent of proof rolling	6.7.2	50		
Pavements And Shoulders – Conformance - Conformance Testing – Obtain the Superintendent's approval for pavement conformance prior to any surfacing work	6.7.3	51		
Stabilization – In Situ Stabilization - Spreading - Assess spread rate based upon test results of materials to be stabilised. Obtain the Superintendent's approval of the spread rate	7.4.4	53		

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Stabilization – Plant Mix Stabilization - Stabiliser Content - Assess the cement content based upon test results of materials to be stabilised. Obtain the Superintendent's approval for the cement content	7.5.1	54		
Stabilization – Conformance - Testing - Superintendent to approve conformance of stabilised layer prior to priming	7.6.2	54 & 55		
Spray Sealing - Spraying - Application Spray Rates – Do not commence spraying until the spray rates are advised by the Superintendent	8.13.3	63		
Spray Sealing - Application Of Geofabric - Submit details of proposed machinery and method of application	8.14	64		
Spray Sealing - Application Of Aggregate – Obtain approval from the Superintendent for use of the proposed aggregate loader before commencing loading operations	8.15	64		
Dense Graded Asphalt - Asphalt Mix Design - Design Mix Requirements - Asphalt materials must not be used until the mix has been registered and the Superintendent approves the mix for use.	9.6.2	71		
Dense Graded Asphalt - Asphalt Mix Design - Design Mix Requirements - Where it is proposed to change the source grading or nature of the components or binders, new mix designs must be carried out in accordance with Department's Code of Practice for Registration of Asphalt Mix Designs.	9.6.2	71		
Dense Graded Asphalt - Surface Preparation - Cold Planing - Temporary Works - This work must be approved by the Superintendent before the section is opened to traffic.	9.7.3	71 & 72		
Slurry Surfacing – Materials - Binder - Additives to improve the workability of the mix, or to accelerate or retard setting of the mix may be used with the approval of the Superintendent	10.5.1	79		
Slurry Surfacing – Mix Requirements - Sample Mixes - At least 14 days before commencing work, forward the details of the mix design, carried out in a NATA registered laboratory and performed by a NATA accredited technician, to the Superintendent for endorsement. Once the mix design is endorsed by the Superintendent it becomes the specified job mix	10.7.2	80		
Slurry Surfacing – Preparation & Set Out - Sweeping Pavement- Do not commence spreading of the slurry surfacing mix until the prepared pavement has been endorsed by the Superintendent.	10.8.1	81		
Miscellaneous Concrete Works – Materials - Admixtures - Do not use admixtures without obtaining prior written approval from the Superintendent.	11.3.5	83		
Miscellaneous Concrete Works – Materials - Reinforcement - Do not place concrete until the reinforcement has been inspected by the Superintendent	11.3.6	83		
Miscellaneous Concrete Works – Construction - Placing Of Concrete - Provide verification that all constituent materials, formwork, falsework, reinforcement, and environmental conditions comply with all requirements. Do not cast any concrete without that verification	11.6.3	84		

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Miscellaneous Concrete Works – Existing Services - Obtain the Superintendent's approval before altering the line or level of existing services.	11.8	85		
Drainage Works – Materials - Precast Reinforced Concrete Box Culverts - Provide drawings showing complete reinforcement and dimensions with tolerances and obtain the Superintendent's approval prior to fabricating any units. Provide manufacturer's certification that the provided culverts comply with the applicable sections of AS 5100.5 and with AS 1597. Certify that the design is reflected accurately by the shop drawings and that the design is adequate to resist all specified loads and the soil loads pertaining to the site. Provide a table of construction axle loads versus minimum required cover for each box culvert size.	12.5.2	88		
Drainage Works – Construction Of Culverts And Structures - Setting Out - Obtain the Superintendent's approval for the setting out before construction.	12.6.1	88		
Drainage Works – Construction Of Culverts And Structures - Backfill - Do not place backfill against any in-situ concrete structure until the concrete has attained 80% characteristic strength and approval has been given.	12.6.10	90		
Drainage Works – Subsoil Drains - Laying And Backfilling - Obtain Superintendent's approval of the pipe installation before backfilling.	12.11.5	91		
Protection Works - Stone Pitching - Grouted Stone Pitching- Obtain Superintendent's approval before grouting	13.5.2	94		
Road Furniture and Traffic Control Devices - Certification of Guide posts - Provide certification that guide posts conform to the following: – Where installed in normal working conditions, guide posts are capable of self-erecting after 10 impacts head on, from an average sedan travelling at 60 km/h. – After 2,000 hours of exposure in an Atlas Weatherometer the guide posts do not change colour by more than 10 points on a Delta E colour chart. – The guide post material has a minimum Vicat softening point of 120°C. – Physical testing as specified. – Resistant to termites.	14.4.2	98 & 99		
Road Furniture and Traffic Control Devices - Guide post characteristics - Provide a sample guide post from each batch purchased for this contract for approval before installing any guide posts	14.4.3	99		
Road Furniture and Traffic Control Devices - Road Signs - Materials – Obtain Superintendent's approval for the use of anti-graffiti film or coating products. Apply anti-graffiti products only to the new road signs specified by the Superintendent	14.5.2	99		
Pavement Marking – Workmanship - Remove defective marking by sand blasting, or other approved methods, make good the surface in a manner approved by the Superintendent	15.12	107		
Pavement Marking – Removal of existing markings – Obtain approval from the Superintendent on the method used for line marking removal	15.17	109		

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Landscape - Materials - Imported Soils - Advise the name of the proposed supplier. Do not order soils without Superintendent's approval of the supplier.	16.3.4	110 & 111		
Landscape - Materials - Mulch - Organic Mulch - Advise the name of the proposed supplier. Do not order mulch without Superintendent's approval of the supplier.	16.3.6	111		
Landscape – Planting - Setting Out Of Holes - Obtain approval of the set out from the Superintendent before commencing any planting	16.5.1	112		
Landscape – Irrigation - Backfill trenches only after inspection and approval of wiring. Minimum size active 1.5 mm <sup>2</sup> . Minimum size common 2.5 mm <sup>2</sup> laid in closed loop.	16.7.1	113 & 114		
Landscape – Irrigation - Design Plans - Submit drawings to Superintendent for approval indicating design proposals showing all pipework, sprinklers, valves and control systems	16.7.2	115		
Landscape – Irrigation - Testing- Obtain Superintendent's approval to proceed with backfilling other than spot filling to prevent movement of pipework during pressure testing	16.7.7	116		
Landscape – Irrigation – As Constructed Drawings- Provide As Constructed drawings of the irrigation system in electronic CAD format (AutoCad or Microstation) to the Superintendent within two weeks of practical completion	16.7.10	117		
Traffic Control Signals - Traffic Signal Cabling - Submit documentation of proposed cable layout for approval prior to commencing installation of cabling	18.4	123		
Traffic Control Signals - Scats Facilities - Connection to Telstra Pit from Communications Isolation Pillar - Provide documentary evidence that the installation is approved by Telstra	18.7.3	124		
Traffic Control Signals - Documents And Plans- Submit to the Superintendent one complete set of CAD as Constructed Drawings and completed Cable Layout and Connection Chart before the issue of the Certificate of Practical Completion	18.8	124		
Street Lighting - Existing Street Lighting – Temporary lighting – Submit plans of the proposed temporary street lighting to the Superintendent for approval prior to removal of existing street lights	20.10.2	129		
Directional Boring - Proposed Method – Submit details of the proposed method of thrust boring not less than 14 days prior to commencement of construction using that method. Include details of proposed filling of cavities. No disruption or excavation of the surface is to take place over the length nominated.	21.3	131		
Protective Coatings - Surface preparation to AS 1627	22.2	132		
Protective Coatings - Site tests to AS 3894.10, AS 3894.11, AS 3894.12 submitted	22.2	132		

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Protective Coatings - Abrasive Blasting - At the completion of the final blast and prior to coating application, the surface profile of each item shall be measured according to Method A, Profile Replicating Tape, of AS 3894.5. Provide documentary confirmation that the surface is suitable for the application of the specified coatings. This shall be identified as a Hold Point in the contractor's ITP	22.17	134		
Protective Coatings - Alternate Surface Protection - Do not use forms of surface preparation other than abrasive blasting, such as bristle blaster, needle guns, power tool cleaning and hand tool cleaning, without written permission from the Superintendent. Alternate methods of surface preparation must be included in the Contractor's ITP	22.19	134		
Protective Coatings - Coating - Provide coating manufacturers' written approval for use before using any other additives (eg promoters, accelerators etc)	22.21	135		
Protective Coatings - Alternate Coating - Do not use coating materials other than specified, without written permission from the Superintendent. Alternate coating materials must be included in the Contractor's ITP	22.25	135		
Protective Coatings - Coating Defects - Any requirements for the repair of protective coatings shall be identified as a Hold Point in the contractor's ITP	22.26	135		
Protective Coatings - Provide ITPs, JSAs, a SWMS and other quality control procedures and documents to be used during protective coating systems application. These must be approved prior to commencement of work	22.31	135		
Protective Coatings - Contractor Records - Provide copies of all NCRs (Non Conformance Reports) immediately they are completed or received. The NCRs must detail the non-conformance and be accompanied by a Corrective Action Report (CAR) which is to detail the action proposed to be undertaken to rectify the non-conformance	22.32	136		
Protective Coatings - Film Thickness - Final acceptance of each increment of work will not be made until the dry film thickness meets or exceeds the specified thickness. Regardless of the number of coats specified, additional coats shall be applied as may be necessary to achieve the specified thickness, at the contractor's expense.	22.33	136		
Protective Coatings - Inspector - Provide name and qualifications of Inspector before commencing work	22.34	136		

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## 1.2 SCHEDULE 2 - WITNESS POINTS

Schedule 2 – Witness Points				
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Misc. Provisions – Extraction Areas - Crushing Or Screening - Provide documentary evidence of the certification that the plant is fit for use issued by a competent person. Provide documentary evidence of that person’s skills and qualifications which indicate their competence as defined in the NT Work Safe Bulletin cited above. This evidence is to be provided within 2 weeks of the award of the contract.	1.9.3	8		
Miscellaneous Provisions - Safety - Safety Officer - Appoint a Safety Officer and notify the Superintendent of the officer’s name	1.12.2	10		
Miscellaneous Provisions - Control Station Check Survey - Where results exceed the quoted tolerance notify the Superintendent and obtain directions	1.19	11		
Miscellaneous Provisions - As Constructed Information - Before the work commences provide a proposed procedure for recording and submitting the amended drawings	1.21	12		
Provision for Traffic - Traffic Control - The Superintendent must appraise all changes to the TMPs and TCDs prior to implementation of any changes, unless there is an urgent need for amendments to mitigate hazards. In situations where immediate hazard mitigation is necessary the changes may be implemented and the Superintendent advised of the changes as soon as practicable thereafter	2.13	21		
Earthworks – Conformance – Existing Surface Levels - Obtain inspections of any disputed existing surface levels with the Superintendent prior to any stripping or earthworks operations	4.15.1	32		
Earthworks – Conformance – Proof Rolling – Give the Superintendent not less than 24 hours notice of the location and commencement time for the proof rolling	4.15.3	32		
Conformance Testing - Notice Of Testing – Provide the Superintendent with a copy of the order for testing simultaneously with the order being sent to the Panel Period Contractor	5.8	35		
Conformance Testing - Notice Of Testing – Notify the Superintendent prior to any rework of failed lots	5.8	35		
Pavements and Shoulders – Conformance - Proof Rolling - Give the Superintendent not less than 24 hours notice of the location and commencement time for the proof rolling	6.7.2	50 & 51		
Spray Sealing - Sampling Of Binder – Take samples from the point of delivery on transfer from the bulker to the sprayer or as directed. Where transfer is for works in the urban area or for small works ensure that conformance testing is ordered and samples are taken at the point of transfer from bulker to sprayer	8.9.5	61		
Spray Sealing – Spraying - Give the Superintendent 48 hours notice of intention to spray bitumen	8.13	62		
Spray Sealing - Spraying - Preparation For Sprayer Run - Allow visual inspection when requested	8.13.4	63		

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Dense Graded Asphalt - Materials - Bituminous Binder - Demonstrate that the binder used for asphalt manufacture has been handled according to these requirements.	9.5.4	70		
Dense Graded Asphalt - Surface Preparation - New Construction - Give the Superintendent not less than 24 hours notice of the location and scheduled commencement time of surface preparation works	9.7.1	71		
Dense Graded Asphalt – Spreading – General - Give at least 24 hours notice before commencement of asphalt material spreading.	9.10.1	73		
Dense Graded Asphalt – Spreading – Laying Pattern - Supply construction program plans 7 working days prior to commencement of works. Confirm paving plan prior to the commencement of each shift	9.10.4	73		
Dense Graded Asphalt - Compaction - Compaction Temperatures - The Contractor must advise the Superintendent of temperature limits relating to compaction.	9.11.2	74		
Slurry Surfacing - Commencement Of Work N- Give the Superintendent at least 7 days notice of the date and time of the commencement of work	10.3	79		
Slurry Surfacing - Records - Forward the original copy of the slurry surfacing Daily Record Sheet to the Superintendent daily	10.13	82		
Miscellaneous Concrete Works – Construction - Do not place concrete until the formwork has been inspected by the Superintendent	11.6.2	84		
Miscellaneous Concrete Works – Construction - Placing Of Concrete - Give the Superintendent sufficient notice so that inspection may be made before and during pouring concrete	11.6.3	84		
Drainage Works – Materials - Precast Reinforced Concrete Box Culverts - Give the Superintendent notice prior to casting concrete	12.5.2	88		
Drainage Works - Construction Of Culverts And Structures - Excavation - Excavate unsuitable material below specified level if directed by the Superintendent.	12.6.2	88 & 89		
Drainage Works - Construction Of Culverts And Structures - Connection to existing systems - Advise superintendent within two days when clean out is completed	12.6.9	90		
Drainage Works - Construction Of Culverts And Structures - Notify the Superintendent before backfilling where holes or fissures occur in rock trenches	12.6.10	90		
Drainage Works - Construction Of Culverts And Structures - Inlet and outlet channels - Advise Superintendent within two days when clean out is completed	12.8	90		
Drainage Works - Subsoil drains - End walls - Advise Superintendent within two days when clean out is completed	12.11.6	91		
Pavement Marking - Road Marking Paint - Submit a Certificate of Compliance in respect to the paint complying with the relevant Australian Standards or APAS specification	15.5	105		

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Pavement Marking – Cold Applied Plastic Materials - Materials - Provide evidence that all proprietary products such as epoxy or plastic products have demonstrated satisfactory field performance for a period of at least three years	15.7.2	105		
Pavement Marking – Cold Applied Plastic Materials - Application - Provide evidence that it has been applied in accordance with the Manufacturer's instructions	15.7.3	105		
Pavement Marking – Glass Beads - Submit a Certificate of Compliance in respect to the glass beads complying with the relevant Australian Standard and APAS specification	15.8	106		
Pavement Marking – Application – Obtain approval from the Superintendent for the type of equipment to be used for applying pavement marking materials	15.10	106		
Pavement Marking – Application – Produce documented evidence to show that the spraying equipment has been calibrated in accordance with NTTM 405.1	15.10	106		
Landscape - Materials - Imported Soils - Provide a 5kg sample of topsoil proposed for the works. Do not order soils without Superintendent's approval of the sample. Provide copies of delivery dockets for the topsoil delivered to site for the works.	16.3.4	110 & 111		
Landscape - Materials - Mulch - Organic Mulch - Provide a 5kg sample of mulch proposed for the works. Do not order mulch without Superintendent's approval of the sample. Provide copies of delivery dockets for the mulch delivered to site for the works.	16.3.6	111		
Traffic Control Signals - Traffic Signal Cabling - Inspections - Give 24 hours notice to the Superintendent for inspection of excavations for pedestals, bases and conduits	18.4.8	124		
Traffic Control Signals - Checking And Testing – Give 24 hours notice for checking and testing signal controller, cabling and lanterns.	18.9	124		
Traffic Counting Stations - Installation - Vehicle Detection – Detector Loop - Provide 24 hours notice to the Superintendent prior to installation of vehicle detector loops	19.7.1	126		
Traffic Counting Stations - Testing And Inspection - Test the installation in the presence of the Superintendent	19.9.1	127		
Traffic Counting Stations - Testing And Inspection - Provide 24 hours notice to the Superintendent for inspection of excavations for foundations and conduits	19.9.3	127		
Street Lighting - Excavation - Notify the Superintendent when trench excavation is complete and before backfilling has commenced	20.5	128		
Protective Coatings - Contractor's Responsibilities - Provide documentary evidence of PCCP accreditation before commencing protective coatings work.	22.4	132		
Protective Coatings - Equipment - Give notice so this oil carryover tests may be witnessed by the Superintendent or their nominated representative	22.13	133		

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Protective Coatings - Coating - Provide copies of specifications for application of protective coatings from the manufacturers of the products used. Provide copies of manufacturers' product technical data sheets for all products used.	22.21	135		
Protective Coatings - Coating defects - This compatibility between marker and coating is to be confirmed by the coating manufacturer. Provide written evidence of this compatibility if requested by the Superintendent.	22.26	135		
Protective Coatings - Contractor records - Maintain these reports on a daily basis. Submit them to the Superintendent when requested, or, if not specifically requested, at least weekly.	22.32	136		
Protective coatings - Film thickness - Provide and operate wet film and dry film thickness gauges of approved types to ensure the correct thickness of each coat and the full system is achieved. Provide details of the gauges proposed for use.	22.33	136		

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