

# Standard Specification for Civil Maintenance v.9.2a Hold Points and Witness Points Schedules

## Project information

Project Number:

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RTF Number:

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Project title:

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**Superintendent:**

Name:

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Phone number:

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

Name:

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Phone number:

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## Schedule 1 – Hold Points

SCHEDULE 1 - HOLD POINTS				
CLAUSE TITLE	CLAUSE	PAGE No	INITIALS	DATE
<b>1 MISCELLANEOUS PROVISIONS</b>				
<b>ENVIRONMENTAL MANAGEMENT - CONTRACTOR'S ENVIRONMENTAL MANAGEMENT PLAN</b> Submission of the Contractor's Environmental Management Plan is a Hold Point. Refer to the Standard Specification for Environmental Management.	1.6.2	13		
<b>VOLATILE SUBSTANCES MANAGEMENT</b> Provide details of the volatile substances proposed to be brought in to the area(s) subject to Volatile Substance Abuse Management Plan(s) and provide details of the proposed methods for complying with the requirements of any applicable Volatile Substance Abuse Management Plan(s).	1.10	14		
<b>PERMITS TO ACCESS LAND FOR WORKS ON ROADS</b> The Contractor must provide documentary evidence of having been granted the required permission(s) to; <ul style="list-style-type: none"> <li>– enter the land which is the site(s) of the works, and</li> <li>– enter any other lands for ancillary activities related to the works, and</li> <li>– carry out the works and works related ancillary activities.</li> </ul> Do not enter the land until this evidence has been received by the Superintendent.	1.11	14		
<b>PERMITS TO ACCESS LAND FOR WORKS ON ROADS</b> Provide documented advice on sites to which surplus materials will be taken. Provide documentary evidence of permits, from the entities and/or organisations with jurisdiction over those sites, for the dumping of surplus materials at those sites.	1.11	14 & 15		
<b>CAMP SITE/COMPOUND/WORKSHOP</b> Provide a copy of written permission from the owner or lessee of the land permitting establishment and operation of a camp site, compound and/or workshop, before commencing works.	1.12	15		

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CAMP SITE/COMPOUND/WORKSHOP - FOOD PREPARATION FACILITIES Provide a copy of proof of registration with DoH of any camp food preparation area in accordance with the <i>Food Act 2004</i> .	1.12.1	15		
CAMP SITE/COMPOUND/WORKSHOP - EFFLUENT Provide a copy of written approval from Department of Health (DoH) for any proposed on-site effluent disposal system, before commencing works.	1.12.3	15		
CAMP SITE/COMPOUND/WORKSHOP - EFFLUENT Where the use of septic tanks or portable toilets is not reasonable or practical, pit toilets may be used, but this requires the prior written approval of the Superintendent.	1.12.3	15		
CAMP SITE/COMPOUND/WORKSHOP - REHABILITATION Obtain approval from the Superintendent for the completed rehabilitation of the camp site/compound/workshop before final demobilisation.	1.12.4	16		
EXTRACTION AREAS AND WATER SOURCES - EXTRACTION AREAS LOCATIONS Complete the Gravel Extraction Pit Management Plan and submit it to the Superintendent prior to any material removal.	1.14.3	16		
EXTRACTION AREAS AND WATER SOURCES - EXTRACTION AREAS LOCATIONS Submit copies of all clearances and approvals to the Superintendent, except for those obtained by the Superintendent and provided to the Contractor.	1.14.3	16 & 17		
EXTRACTION AREAS AND WATER SOURCES - EXTRACTION AREAS LOCATIONS Provide to the Superintendent documents detailing the proposed pit positions prior to the establishment of new pits.	1.14.3	16 & 17		
EXTRACTION AREAS AND WATER SOURCES - APPROVALS FOR EXTRACTION AREAS Prior to commencing any work on or in extraction areas, either new or existing, provide documentary evidence to the Superintendent that the relevant approvals have been ascertained or obtained.	1.14.4	17		

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<b>EXTRACTION AREAS AND WATER SOURCES - APPROVALS FOR EXTRACTION AREAS</b> Creation or use of existing extraction areas for fill or gravel within the road reserve not supplied by DIPL require the written approval from the Superintendent before use.	1.14.4	17		
<b>EXTRACTION AREAS AND WATER SOURCES - EXTRACTION AREA MANAGEMENT PLAN</b> The completed Extraction Area Management Plan must be submitted to the Superintendent for approval before any works commence.	1.14.5	17		
<b>EXPLOSIVES</b> Provide evidence of the following requirements of NT Worksafe: <ul style="list-style-type: none"> <li>- License to carry and store explosives.</li> <li>- Vehicle license to carry explosives.</li> <li>- Shot Firer's certificate.</li> </ul>	1.15	19		
<b>SAFETY - WORK HEALTH AND SAFETY MANAGEMENT PLAN</b> 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.	1.17.2	21		
<b>UTILITIES AND OTHER SERVICES PASSING UNDER EXISTING PAVEMENTS</b> If the pavement is to be subjected to works, and open trenching for the routing of utilities or services is proposed, and has not been approved as part of the works, obtain approval from the Road Authority and the Superintendent before undertaking any excavation works for trenching across the existing pavement.	1.19	22		
<b>WORK ON RAILWAY SITES</b> Do not commence work until the work plan has been approved by the owner and operator of the rail system. Provide copies of the work plan and of the approval to carry out the works to the Superintendent.	1.22	23		

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<b>BREAKING GROUND WORKS NEAR TRAFFIC COUNTING STATIONS</b> Prior to commencing any excavation, grading, boring of holes, blasting, rock breaking, soil compaction or similar activity in the vicinity of traffic counting station detector loops, obtain the location of the cables.	1.23	24		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – WARRANTIES - WARRANTY MARKINGS ON PRODUCTS</b> Obtain Superintendent approval prior to the use of product markings as warranty certificate.	1.29.1.2	25		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS - CONTRACTOR'S ENVIRONMENTAL MANAGEMENT PLAN (CEMP)</b> Submit details of procedures to protect the environment. Refer to the Standard Specification for Environmental Management. Submission of a Contractor's Environmental Management Plan (CEMP) may be required.	1.29.5	27		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS - CONTRACTOR'S SUBMISSIONS</b> Provide copies of permits, and approvals, for works, and associated activities, proposed to be carried out in areas not in the road reserve before commencing any proposed works, and activities.	1.29.10	28		
<b>AS CONSTRUCTED INFORMATION</b> Provision of As Constructed information is a condition precedent to Practical Completion.	1.36	30		
<b>2 PROVISION FOR TRAFFIC</b>				
<b>TEMPORARY TRAFFIC MANAGEMENT – SITE BASED WORKZONE TRAFFIC MANAGEMENT DESIGNER (TMD)</b> Obtain approval from the Superintendent before making any substitution of staff listed by the Contractor. The Contractor shall provide to the Superintendent details of the proposed substitute staff including work history, experience and qualifications of the TMD representative/s, and any other relevant information	2.4.8	40		

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<p><b>TRAFFIC MANAGEMENT PLAN – INDEPENDENT SUBMISSION OF TRAFFIC MANAGEMENT PLAN</b>                      Submit the Traffic Management Plan (TMP), with the Traffic Guidance Schemes.                      For contracts where audits of traffic control measures are required:</p> <ul style="list-style-type: none"> <li>– Do not commence implementing traffic control measures until the TMP has been audited by a Panel Period Audit Consultant and for which consent for use has been granted.</li> <li>– Do not commence the works until the TMP has been audited by a Panel Period Audit Consultant and for which consent for use has been granted.</li> </ul> <p>For contracts where audits of traffic control measures are not required;</p> <ul style="list-style-type: none"> <li>– Do not commence implementing traffic control measures until the TMP has been appraised by DIPL Road Operations and for which consent for use has been granted.</li> <li>– Do not commence the works until the TMP has been appraised by DIPL Road Operations and for which consent for use has been granted.</li> </ul>	2.5.2	43		
<p><b>TRAFFIC MANAGEMENT AUDIT REQUIREMENTS – INDEPENDENT THIRD PARTY WZTM SUITABILITY AUDIT REQUIREMENTS</b>                      The Traffic Management Plan must not be implemented before it is audited for suitability and found to be suitable.</p>	2.7.2	48		
<p><b>TRAFFIC MANAGEMENT AUDIT REQUIREMENTS – INDEPENDENT THIRD PARTY WZTM SUITABILITY AUDIT REQUIREMENTS</b>                      Works must not commence before the Traffic Management Plan is audited for suitability and found to be suitable.</p>	2.7.2	48		

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<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>AMENDMENTS TO TRAFFIC MANAGEMENT PLANS</b> Modified TMPs and TGSs must be audited for suitability by a Panel Period Audit Consultant, and consent to use granted, before implementation of the modified TMP and/or TGSs, if audits are required under the contract. If Traffic Management audits are not required under the contract the modified TMPs or TGSs must be appraised by the Superintendent, and consent to use granted, before implementation of the modified TMPs and/or TGSs.	2.10	49		
<b>AMENDMENTS TO TRAFFIC MANAGEMENT PLANS</b> Modified traffic management control measures must be audited for compliance by a Panel Period Audit Consultant, and consent to use granted, or appraised by the Superintendent, and consent to use granted, if Traffic Management audits are not required under the contract, before works resume.	2.10	49		
<b>WORK IN RURAL AREAS</b> Undertake work during daylight hours only unless approval is given by the Superintendent. Approval will only be granted in exceptional circumstances. For routine night and streetlight inspections the hold point will not apply	2.11	49		
<b>WORK IN URBAN/BUILT-UP AREAS - WORKING TIMES</b> Obtain Superintendent approval if proposing to work during the restricted work hours.	2.12.1	49 & 50		
<b>WORK IN URBAN/BUILT-UP AREAS - TRAFFIC LANES</b> Provide a copy of all relevant approvals with the Traffic Management Plan.	2.12.2	50		
<b>WORK IN URBAN/BUILT-UP AREAS - LANE CLOSURES</b> Do not use bullnose or V type tapers unless no other option is available. Obtain permission from the Superintendent to use bullnose or V type tapers before placing them on site.	2.12.3	50		

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<p><b>NIGHT ILLUMINATION</b>                      Sections of the roadway, including detours and side tracks, affected by Temporary Traffic Management, must be illuminated at night to AS 1742.3 and AGTTM, if</p> <ul style="list-style-type: none"> <li>- night works are in progress, and/or</li> <li>- if signage left on site overnight is not illuminated by the headlights of vehicles approaching the signs.</li> </ul> <p>Illumination to be 10 lux minimum at ground level.</p>	2.13	50		
<p><b>NT SPECIFIC DIRECTIONS FOR ROAD WORK SIGNS - NON-STANDARD SIGNS</b>                      Obtain specific approval from the Superintendent before using signs not included in AS 1742.3</p>	2.15.4	52		
<p><b>NT SPECIFIC DIRECTIONS FOR ROAD WORK SIGNS - PORTABLE VARIABLE MESSAGE SIGNS (VMS)</b></p> <ul style="list-style-type: none"> <li>- Provide details of the messages to be displayed and the locations of the VMSs. This information is to be included in TGSs for the project.</li> <li>- Provide wording for advance warning message(s) and wording for message(s) to be displayed during the works. This information is to be included in TGSs for the project.</li> <li>- Do not use any VMS until the messages to be displayed have been approved.</li> <li>- Do not use any VMS until the proposed location and orientation of the VMS has been approved.</li> <li>- Provide this information not less than 5 working days before the VMSs are to be put in to service for the project.</li> </ul>	2.15.5	52 & 53		
<p><b>NT SPECIFIC DIRECTIONS FOR ROAD WORK SIGNS - TEMPORARY SPEED LIMITS</b>                      Submit temporary speed limit authorisation applications to alter speed limits to the Superintendent, no later than 5 working days prior to the implementation of temporary speed limits, for approval under the Control of Roads Act.</p>	2.15.7	54		



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<b>NT SPECIFIC DIRECTIONS FOR ROAD WORK SIGNS - ROAD SAFETY BARRIERS</b> Provide a statement, signed by your engineer, and signed by the author of the Traffic Management Plan, which states that the Road Safety Barriers proposal complies with AS 1742.3, AGTTM and with AS/NZS 3845.1, and with AS/NZS 3845.2, and with the specifications and installation manuals from the manufacturers of the components proposed to be used in the Road Safety Barriers system. Provide the Traffic Management Plan with this statement.	2.15.9	55		
<b>DETOURS, SIDE TRACKS, AND CROSSOVERS</b> Obtain written approval from the Superintendent before commencing any works for detours, side tracks or crossovers.	2.18	57		
<b>TEMPORARY BRIDGING</b> Obtain written approval from the Superintendent, prior to commencement of any such works.	2.21	60		
<b>TEMPORARY BRIDGING</b> Provide copies of all the required approvals to the Superintendent prior to the commencement of the works.	2.21	60		
<b>CONTRACTOR'S PLANT AND EQUIPMENT</b> 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. For routine night and streetlight inspections the hold point will not apply.	2.22	60		
<b>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS</b> Obtain clearances from the Department's Traffic Section, ph 8999 4402, prior to commencement of the works. Co-ordinate your works activities with the Department's Traffic Section for the duration of the works.	2.24.1	61		

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<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN DURING WORKING HOURS</p> <p>Provide copies of the TMP and applicable TGSs once consent for their use has been granted, and contact the Traffic Section, by phone on 8999 4402, not less than one working day prior to the commencement of work.</p>	2.24.1.1	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN DURING WORKING HOURS</p> <p>If the traffic signals need to be re-mapped, or other traffic controls implemented, advise the Traffic Section not less than one working day prior to the commencement of work.</p> <p>Contact must be made by email to traffic.NTG@nt.gov.au or by phone.</p>	2.24.1.1	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN DURING WORKING HOURS</p> <p>Advise the Traffic Section about the planned lane closures by phone immediately before installing traffic control on the day the works are to be carried out.</p>	2.24.1.1	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN DURING WORKING HOURS</p> <p>Advise the Traffic Section immediately before traffic control is removed.</p>	2.24.1.1	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN OUTSIDE WORKING HOURS</p> <p>Provide copies of the TMP and applicable TGSs once consent for their use has been granted, and contact the Traffic Section, not less than one working day prior to the commencement of work.</p>	2.24.1.2	62		

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<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN OUTSIDE WORKING HOURS</p> <p>If the traffic signals need to be re-mapped, or other traffic controls implemented, co-ordinate directly with the Traffic Section not less than one working day prior to the commencement of work.</p>	2.24.1.2	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN OUTSIDE WORKING HOURS</p> <p>Advise the Traffic Section after-hours contact officer about the planned lane closures, using the after-hours phone number provided, immediately before installing traffic control, on the day the works are to be carried out.</p>	2.24.1.2	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC SIGNALS - WORKS UNDERTAKEN OUTSIDE WORKING HOURS</p> <p>Advise the Traffic Section after-hours contact officer, on the after-hours phone number provided, immediately before traffic control is removed.</p>	2.24.1.2	62		
<p>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - VARIABLE SPEED LIMIT ZONES</p> <p>Obtain clearances from the Department's Traffic Section, ph 8999 4402, not less than five working days prior to commencing works.</p>	2.24.2	62		

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<p><b>TRAFFIC SIGNALS, INTELLIGENT TRANSPORT SYSTEMS (ITS), VARIABLE SPEED LIMIT ZONES, AND TRAFFIC COUNT STATIONS - TRAFFIC COUNT STATIONS AND CULWEIGH STATIONS</b></p> <p>Prior to the commencement of work within the trafficked lanes and within 50 m of traffic counters, or Culweigh stations, or within 20 m, in any direction, of any component of the traffic count or Culweigh equipment, whether located in or on the trafficked lanes, shoulders, nature strips, and/or medians, or located in another type of area, obtain a clearance to commence the works from Department's Maintenance Section for the region in which the works are located, and with either the Superintendent or with the Maintenance Manager (phone (08) 8999 4660).</p>	2.24.3	63		
<p><b>PORTABLE TRAFFIC SIGNALS</b></p> <p>Complete and provide the Portable Traffic Signal Authorisation (PTSA) form, included in the application for a Permit to Work in the Road Reserve document, to seek formal approval from the Superintendent to use the proposed portable traffic signals and the proposed time settings, not less than 5 working days prior to the intended use of the portable traffic signals. Do not use any PTSs on site until an authorised Departmental Officer has signed off the PTSA form.</p>	2.25	63		
<p><b>PORTABLE TRAFFIC SIGNALS - TEMPORARY SPEED LIMITS</b></p> <p>Work zone speed limits require approval from the Superintendent prior to implementation.</p>	2.25.1	64		
<b>3 EARTHWORKS AND DRAINAGE MAINTENANCE</b>				
<p><b>EARTHWORKS IN CUT – ROCK</b></p> <p>Obtain agreement from the Superintendent to the extent of the excavation.</p>	3.5.2	67		
<p><b>EARTHWORKS IN CUT – UNSUITABLE MATERIAL AND/OR WEATHERED ROCK</b></p> <p>Obtain directions from the Superintendent before works commence.</p>	3.5.3	67		

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<b>EARTHWORKS IN FILL – PREPARATION PRIOR TO FILLING</b> Once moisture conditioned and compacted, subject each lot to a proof roll, with the Superintendent in attendance, as specified in the Proof Rolling sub-clause of the <b>Conformance</b> clause in this work section.	3.6.2	68		
<b>EARTHWORKS IN FILL – CONSTRUCTION METHODS</b> The use of either the “Rocky Material”, or “Rock Fill” method requires prior approval by the Superintendent.	3.6.3	68		
<b>REMOVAL OF EXCESS MATERIAL</b> Obtain approval from Superintendent prior to hauling and dumping and spreading excess material.	3.8	70		
<b>CONFORMANCE - PROOF ROLLING</b> Submit a proof rolling procedure to the Superintendent for approval including the proposed method of preparing the areas, the extent of proof rolling, and details of the plant and / or equipment proposed to be used.	3.12.2	72		
<b>CONFORMANCE - CONFORMANCE TESTING</b> Obtain the Superintendent’s approval of subgrade conformance prior to placing further material.	3.12.3	72		
<b>4 CONFORMANCE TESTING</b>				
<b>ITP SUBMISSION</b> Submit: ITPs, detailing all procedures and test plans to be undertaken to complete the project, before commencing work.	4.4	76		
<b>5 GRADING AND GRAVEL SHEETING</b>				
<b>CONFORMANCE - PROOF ROLLING PROCEDURE</b> Submit a proof rolling procedure to the Superintendent for approval including the method of preparing an area and the extent of proof rolling.	5.15.2	101		
<b>CONFORMANCE - CONFORMANCE TESTING</b> Obtain the Superintendent’s approval for pavement conformance prior to any surfacing work.	5.15.4	101		
<b>6 STABILISATION MAINTENANCE</b>				
<b>MATERIALS – ADDITIVES</b> Use additives only with the approval of the Superintendent.	6.5.2	105		

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<b>IN-SITU STABILISATION – SPREADING</b> Select spread rate based upon test results of materials to be stabilised and obtain the Superintendent's approval of the spread rate prior to commencing in-situ stabilisation works. Selection of spread rate based on trial testing shall apply unless a spread rate is nominated by the Superintendent in writing.	6.6.4	106		
<b>IN-SITU STABILISATION – MIXING</b> For areas less than 600m <sup>2</sup> in a single patch that do not have a width exceeding 2 metres, use of alternative plant suitable for the particular situation, including rotary hoes and graders, may be used instead of pavement reclaimers with approval from the Superintendent.	6.6.5	106 & 107		
<b>CONFORMANCE – TESTING</b> Obtain the Superintendent's approval for conformance of the stabilised layer prior to priming.	6.9.2	109		
<b>7 SPRAY SEALING MAINTENANCE</b>				
<b>MATERIAL REQUIREMENTS – BITUMEN EMULSION</b> Proprietary products: Seek approval from Superintendent before use.	7.6.7	114		
<b>BINDER COAT REQUIREMENTS – GENERAL – REQUIREMENTS</b> Submit all relevant safety and property data for proprietary emulsion primes. Do not use proprietary emulsion primes unless approval for use is granted.	7.10.1.3	119		
<b>SPRAYING - APPLICATION SPRAY RATES</b> Do not commence spraying until the spray rates are advised by the Superintendent.	7.15.3	124		
<b>APPLICATION OF GEOFABRIC</b> Submit details of proposed machinery and method of application.	7.16	125		
<b>APPLICATION OF AGGREGATE – SELF-PROPELLED MULTI RUBBER TYRED VIBRATING ROLLERS</b> Obtain Superintendent's approval for the use of self-propelled multi rubber tyred vibrating rollers before using them.	7.17.4	127		

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<b>WASTE MATERIAL</b> Obtain written approval from the Superintendent for use of rotary type brooms to windrow the loose aggregate in the urban area. Suction type brooms are still to be used to remove the waste aggregate.	7.19	128		
<b>8 BITUMINOUS SURFACE MAINTENANCE</b>				
<b>REPAIR OPERATIONS - TEMPORARY PATCHING</b> Temporary patching with aggregate and emulsion requires approval of the Superintendent. For such work, keep traffic off the patch until patch is stable.	8.6.2	137		
<b>SPRAY SEALING – AREAS LESS THAN 300m<sup>2</sup> - SPRAYING</b> Do not commence spraying until the Superintendent is advised and gives approval to the proposed application spray rates.	8.16.2	149		
<b>SPRAY SEALING – AREAS LESS THAN 300m<sup>2</sup> - APPLICATION OF AGGREGATE</b> Obtain approval from the Superintendent for use of the proposed aggregate loader before commencing aggregate loading operations.	8.16.6	150		
<b>9 CONCRETE MAINTENANCE</b>				
<b>MATERIALS</b> Provide manufacturer's test certificates for quality of cement, aggregate and reinforcement.	9.5	153		
<b>MATERIALS - CHEMICAL ADMIXTURES</b> Do not use admixtures without obtaining prior written approval from the Superintendent..	9.5.5	153		
<b>MATERIALS - REINFORCEMENT</b> Do not place concrete until the reinforcement has been inspected by the Superintendent.	9.5.6	153		
<b>HANDLING AND PLACING</b> Provide verification that all constituent materials, formwork, falsework, reinforcement, and environmental conditions comply with all requirements. Do not cast any concrete without that verification.	9.11	155		

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<b>EXISTING SERVICES</b> Obtain the Superintendent's approval before altering the line or level of existing services.	9.16	157		
<b>10 DRAINAGE MAINTENANCE</b>				
<b>MATERIALS - PRECAST REINFORCED CONCRETE BOX CULVERTS</b> 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.	10.5.3	160		
<b>CONSTRUCTION OF CULVERTS AND STRUCTURES - SETTING OUT</b> Obtain the Superintendent's approval for the setting out before construction.	10.6.1	161		
<b>CONSTRUCTION OF CULVERTS AND STRUCTURES – BACKFILL</b> Do not place backfill against any in-situ concrete structure until the concrete has attained 80% characteristic strength and approval has been given.	10.6.9	163		
<b>SUBSOIL DRAINAGE SYSTEMS – SUBSOIL DRAINAGE - LAYING AND BACKFILLING</b> Obtain Superintendent's approval of the pipe installation before backfilling.	10.11.1.5	165		
<b>11 PROTECTION WORKS MAINTENANCE</b>				
<b>STONE PITCHING - GROUTED STONE PITCHING</b> Obtain Superintendent's approval before grouting.	11.8.2	171		
<b>12 ROAD FURNITURE MAINTENANCE</b>				
<b>PLASTIC FLEXIBLE GUIDE POSTS – SAMPLES</b> Provide a sample flexible guide post from each batch purchased for this contract for inspection and approval before installing any posts.	12.9.5	183		



<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>PLASTIC FLEXIBLE GUIDE POSTS – TESTS</b> Test results are to be provided as detailed in <b>Testing of Flexible Guide Posts</b> clause in this work section.	12.9.8	184		
<b>STEEL FLEXIBLE GUIDE POSTS – SAMPLES</b> Provide a sample flexible steel guide post from each batch purchased for this contract for inspection and approval before installing any posts..	12.10.5	184		
<b>STEEL FLEXIBLE GUIDE POSTS – TESTS</b> Test results are to be provided as detailed in <b>Testing of Flexible Guide Posts</b> clause in this work section.	12.10.8	186		
<b>TESTING OF FLEXIBLE GUIDE POSTS – TESTS</b> This hold point is covered by the hold points in the clauses Plastic Flexible Guide Posts and Steel Flexible Guide Posts above.  Submit test results to the Superintendent in respect to the following characteristics before ordering the guide posts: <ul style="list-style-type: none"> <li>- Heat resistance.</li> <li>- Cold resistance.</li> <li>- Rigidity.</li> <li>- Vehicle impact.</li> </ul>	12.11.1	186		
<b>ROAD SIGNS – MANUFACTURE, SUPPLY, AND DELIVERY – MATERIALS – ANTI-GRAFFITI COATING</b> Obtain Superintendent’s approval for the use of the anti-graffiti films or coating products. Apply anti-graffiti products only to the new road signs specified by the Superintendent.	12.13.3.6	190		
<b>ROAD SIGNS – INSTALLATION AND MAINTENANCE – INSTALL FLEXIBLE KNUCKLE JOINT POST MOUNTS GUIDE POST</b> Obtain written approval for the proposed product prior to use and ensure the proposed joint is able to sustain repeated impacts and be recovered without other intervention.	12.15.11	193		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>ROAD SIGNS – INSTALLATION AND MAINTENANCE - DAILY LOG</b> Submit for Superintendent approval a suitably designed format for daily log books prior to commencing works under the Contract.	12.15.17	196		
<b>ROAD SAFETY BARRIERS – STEEL WIRE ROPE SYSTEM</b> Obtain Superintendent’s approval for any proposed Steel Wire Rope Road Safety Barrier System before ordering any components.	12.24	200		
<b>13 PAVEMENT MARKING MAINTENANCE</b>				
<b>PAVEMENT MARKING PAINT</b> Submit Certificates of Compliance, issued by an accredited testing authority, stating that all paints being used comply with the relevant Australian Standards and/or APAS specifications.	13.5	205		
<b>GLASS BEADS</b> Submit Certificates of Compliance, issued by an accredited testing authority, stating that the glass beads being used comply with the relevant Australian Standards and APAS specifications.	13.6	205		
<b>PAVEMENT MARKING CONFORMANCE TOLERANCES</b> Provide evidence that the pavement marking complies with the requirements of this specification.	13.9	207		
<b>COLD APPLIED PLASTIC MATERIALS</b> Approval from Project Director Civil Asset Management is required before cold applied plastic materials are used.	13.11	209		
<b>AUDIO TACTILE LINE MARKING (ATLM)</b> Approval from Project Director Civil Asset Management is required before audio tactile line marking materials are used.	13.12	209		
<b>RAISED RETROREFELCTIVE PAVEMENT MARKERS (RRPMS) - RAISED REFLECTIVE PAVEMENT MARKERS</b> Submit details in relation the manufacturer’s warranties, performance, durability and maintenance of the raised retroreflective pavement markers.	13.13.1	210		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>REMOVAL OF PAVEMENT MARKINGS</b> Obtain approval from the Superintendent on the proposed method used for pavement marking removal before commencing removal operations.	13.14	211		
<b>REMOVAL OF PAVEMENT MARKINGS - PAINT BLACKOUT</b> Obtain Superintendent's approval before using this methodology.	13.14.4	211		
<b>14 LANDSCAPE MAINTENANCE</b>				
<b>MATERIALS - IMPORTED SOILS</b> Advise the name of the proposed supplier. Do not order soils without Superintendent's approval of the supplier.	14.12.3	219		
<b>MATERIALS - MULCH</b> Advise the name of the proposed supplier. Do not order mulch without Superintendent's approval of the supplier.	14.12.4	219		
<b>PRUNING - PRUNING OPERATIONS</b> Do not prune branches exceeding a calliper size of 75 mm at trunk which overhang the road pavement without the approval of the Superintendent.	14.16.2	222		
<b>REPLACEMENT OF PLANTS – HORTICULTURIST – REPLACEMENT OF PLANTS</b> If the same species of plant is not available the Horticulturist shall recommend a suitable replacement species with similar characteristics that is available, and submit to the Superintendent for approval.	14.18.2	223		
<b>CONTROL OF PESTS AND WEED SPECIES - HERBICIDE</b> Submit a Weeds Management Plan for assessment and approval.	14.21.7	227		
<b>15 SLASHING AND WEED CONTROL</b>				
<b>BUSHFIRE PREVENTION - FIRE FIGHTER TRAINING</b> Provide evidence of qualifications before commencing slashing operations.	15.9.6	239		
<b>WEED CONTROL - TREATMENT PROGRAM</b> Submit a Weeds Management Plan for assessment and approval.	15.11.3	243		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>WEED CONTROL - HERBICIDE SELECTION</b> Provide a list of herbicides and chemicals intended for use during the contract to the Superintendent as part of the Weed Management Plan..	15.11.4	243		
<b>16 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE</b>				
<b>MATERIAL AND SOFTWARE TO BE SUPPLIED BY THE PRINCIPAL - DARWIN - COLLECTION OF HARDWARE</b> Within 7 days of award of the Contract, the Contractor shall collect such materials and take delivery of the materials at the Department's Yarrowonga shed / storage yard.	16.13.1	257		
<b>SPECIFIC MAINTENANCE – TRAFFIC SIGNALS &amp; ITS Audit Report Review.</b> Within 5 days following the physical completion of a specific maintenance audit, the Contractor's representative shall arrange a time with a Traffic Section staff member to review the quality and content of the completed report prior to formal submission, and review any recommended follow up works that may be required on site. The meeting may include a site visit and time in the office.	16.22	270 & 271		
<b>TRAFFIC MANAGEMENT PLAN - IMPLEMENTATION OF TRAFFIC MANAGEMENT</b> Do not proceed with implementation of traffic management, or the commencement any works within the relevant road reserve without the TGS and TMP amendments (if necessary) being endorsed by Traffic Section staff or Road Operations staff, and any associated Temporary Speed Limit Authorisations (TSLA) being signed by the delegated person in the Department.	16.31.2	284		
<b>18 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE</b>				
<b>UTILITIES AND OTHER SERVICES PASSING UNDER EXISTING PAVEMENTS</b> If the pavement is to be subjected to works, and open trenching for the routing of utilities or services is proposed, and has not been approved as part of the works, obtain approval from the Road Authority and the Superintendent before undertaking any excavation works for trenching across the existing pavement.	17.7	303 & 304		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>SOLAR STREET LIGHTING – MANUFACTURER’S SPECIFICATIONS</b> Submit to the Superintendent manufacturer’s specifications for approval.	17.9.2	305		
<b>EXISTING STREET LIGHTING – TEMPORARY LIGHTING</b> Submit plans of the proposed temporary street lighting to the Superintendent for approval before removal of existing street lights.	17.15.2	307		
<b>COMPLETION – OPERATION AND MAINTENANCE MANUALS</b> Submit to the Superintendent Operation and Maintenance manuals for the installed lighting system.	17.18.1	308		
<b>COMPLETION – WARRANTIES</b> Submit to the Superintendent the manufacturer’s published product warranties in the name of the Principal for the installed lighting system.	17.18.2	308		
<b>18 STREET SWEEPING</b>				
<b>SCHEDULED SWEEPING PROGRAM</b> Do not commence works until an approved Sweeping Service Program is received.	18.6	310		
<b>DETERGENT</b> Provide product information details and SDS to Superintendent for approval of the detergent intended for use in the performance of the Contract prior to the commencement of the works.	18.10	313		
<b>19 AERODROME AND AEROPLANE LANDING AREA MAINTENANCE</b>				
<b>STANDARDS AND PUBLICATIONS - SITE RULES – AERODROMES</b> Communications Plans are to be issued for all works being carried out and are to be approved by the Superintendent before works commence.	19.3.4	317 & 318		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>STANDARDS AND PUBLICATIONS - SITE RULES – AERODROMES</b> If required a NOTAMS is be issued for all works being carried out at an aerodrome which requires NOTAMS to be issued. The NOTAMS are to be approved by the Superintendent before works commence.	19.3.4	317 & 318		
<b>STANDARDS AND PUBLICATIONS - SITE RULES – AERODROMES</b> Method of Working Plans (MOWPs) must be prepared for works to be carried out at an aerodrome which requires MOWPs to be issued. The MOWPs must be approved by the Superintendent before works commence.	19.3.4	317 & 318		
<b>AERODROME REPORTING OFFICER TRAINING</b> Provide a Statement of Attainment of the nationally recognised qualification awarded to the ARO before that person commences any ARO duties.	19.9	320		
<b>ALAS AND FREQUENCY OF SERVICEABILITY INSPECTIONS - INSPECTION – ALAS</b> Notify the Superintendent immediately of the issues affecting performance and/or public safety that require urgent intervention	19.11.1	321 & 322		
<b>METHOD OF WORKING PLANS - DISTRIBUTION OF MOWP</b> Not less than 14 days before works commence, the Contractor must supply a copy of the MOWP to the entities listed in MOS Part 139 and the Superintendent.	19.13.3	322		
<b>INSPECTIONS – AERODROMES - HAZARDOUS OR POTENTIALLY HAZARDOUS DEFECTS</b> The ARO shall immediately implement measures to safe guard the users and notify the Superintendent of the issues affecting performance and/or public safety that require urgent intervention. In certain circumstances (high risk, short response times) the software program will indicate the need for the Contractor to report the defect urgently.	19.24.3	329		
<b>SECURITY CONTROLLED AERODROMES</b> Provide copies of the ASIC cards to the Superintendent.	19.29	331		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>20 BUS STOP MAINTENANCE</b>				
BUS STOP MAINTENANCE - INSPECTIONS, PROGRAMS AND REPORTS - WEEKLY INSPECTION PROGRAMS Do not commence works until an Inspection Program is received and approved.	20.26.7.2	349		
<b>21 ROAD AND MARINE AMENITY MAINTENANCE</b>				
AMENITY TREES AND LANDSCAPING MAINTENANCE – PRUNING OPERATIONS Do not prune branches exceeding a calliper size of 75 mm at trunk which overhang the road pavement without the approval of the Superintendent.	21.20.2	381		
CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – REMOVAL AND RELOCATION OF SEDIMENT BUILD-UP Do not remove any sediment until approval from the Superintendent is given.	21.28.2	392		
<b>22 PROTECTIVE COATINGS</b>				
PROTECTIVE COATINGS Surface Preparation: To AS 1627. Provide a copy of the proposed specification for surface preparation as detailed in AS 1627.0 before commencing surface preparation works. Remove loose millscale, rust, oil, grease, dirt, globules of weld metal, weld slag and other foreign matter..	22.5	402		
PROTECTIVE COATINGS Complete and submit Site testing of protective coatings: To AS 3894.10 and AS 3894.11 and AS 3894.12..	22.5	402		
SURFACE PREPARATION - 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.	22.14.2	405		

<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>SURFACE PREPARATION - ALTERNATE SURFACE PREPARATION</b> 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.	22.14.4	405		
<b>APPLICATION OF PROTECTIVE COATINGS – COATING</b> Provide coating manufacturers' written approval for use before using any other additives (eg promoters, accelerators etc).	22.15.2	406		
<b>APPLICATION OF PROTECTIVE COATINGS – ALTERNATE COATING</b> 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.	22.15.6	407		
<b>APPLICATION OF PROTECTIVE COATINGS – COATING DEFECTS</b> Provide details of repairs required and procedures and processes proposed for making the repairs to the Superintendent prior to making any repairs. Any requirements for the repair of protective coatings shall be identified as a Hold Point in the Contractor's ITP.	22.15.7	407		
<b>ITP, JSA AND SWMS</b> 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.	22.17	407		
<b>CONTRACTOR RECORDS</b> 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.	22.18	408		



<b>SCHEDULE 1 - HOLD POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>CONTRACTOR RECORDS - FILM THICKNESS</b> 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.	22.18.1	408		
<b>CONTRACTOR RECORDS – INSPECTOR</b> Provide the name and qualifications of the inspector prior to commencement of work.	22.18.2	408		

## Schedule 2 – Witness Points

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<b>1 MISCELLANEOUS PROVISIONS</b>				
<b>EXTRACTION AREAS AND WATER SOURCES - CRUSHING OR SCREENING</b> Provide documentary evidence of the certification that the plant is fit for use issued by a competent person.	1.14.6	17		
<b>SAFETY - SAFETY OFFICER</b> Appoint a Safety Officer and notify the Superintendent of the Safety Officer's name, and contact details, including an after-hours contact phone number.	1.17.1	20		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – WARRANTIES - WARRANTIES</b> Name the Principal as warrantee. Provide the standard manufacturer's warranty certificates for manufactured plant, equipment, and other items. Provide installation warranties for the installation of plant, equipment, and other items, where specialized installation practices are a prerequisite for a manufacturer's warranty.	1.29.1.1	25		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – CERTIFICATES OF COMPLIANCE</b> Provide product Certificates of Compliance before Practical Completion.	1.29.2	26		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – LIST OF PLANT AND EQUIPMENT INSTALLED</b> On or before Practical Completion provide a list of plant and equipment installed as part of the project. Include the following details: <ul style="list-style-type: none"> <li>– Make</li> <li>– Model</li> <li>– Serial number (if applicable)</li> <li>– Year of manufacture</li> <li>– Capacity</li> <li>– Location.</li> </ul>	1.29.4	26		
<b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – INSPECTION TEST PLANS (ITPs)</b> Submit ITPs detailing all procedures and test plans to be undertaken.	1.29.6	27		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<p><b>CONTRACTOR'S RESPONSIBILITIES AND SUBMISSIONS – PROJECT CONTROL PLAN (PCP)</b></p> <p>Submit a project control plan for the project which sets out in detail all control procedures for the project. A framework Project Control Plan Guidance document is available at the Department's Specification Services webpage:  <a href="https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-specifications">https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-specifications</a>.</p>	1.29.7	27		
<p><b>AS CONSTRUCTED INFORMATION</b></p> <p>Provide As Constructed drawings for all of the works.</p> <ul style="list-style-type: none"> <li>- Show in red, on the Contract Drawings, as constructed information relating to works constructed beyond the various construction tolerances. The information includes, but is not limited to: <ul style="list-style-type: none"> <li>o Setout co-ordinates, where applicable.</li> <li>o Design levels.</li> <li>o Detail dimensions.</li> </ul> </li> <li>- Pavement, seal, line marking and protection extents.</li> <li>- Refer to the specific deliverables in the NTG Technical Drawings Part 1 - Requirements for Technical Records Management document, which is accessible via <a href="https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-records">https://dipl.nt.gov.au/industry/technical-standards-guidelines-and-specifications/technical-records</a> .</li> <li>- Drawings without changes shall also be included and labelled as "As Constructed " in the amendment description column.</li> </ul>	1.36	30		
<p><b>AS CONSTRUCTED INFORMATION</b></p> <p>Before the work commences provide a proposed procedure for recording and submitting the amended drawings.</p>	1.36	30		
<b>2 PROVISION FOR TRAFFIC</b>				
<p><b>TRAFFIC MANAGEMENT PLAN</b></p> <p>Any decision to vary or not follow a requirement or recommendation must be based on sound traffic management judgement by a competent person and must be documented. Provide the documentation to the Superintendent.</p>	2.5	42		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE No</b>	<b>INITIALS</b>	<b>DATE</b>
<b>DETOURS, SIDE TRACKS, AND CROSSOVERS – DESIGN AND CONSTRUCTION</b> Obtain advice from the Superintendent that all requirements for the construction of the detours, side tracks, and/or crossovers have been met on completion..	2.18.1	58		
<b>DETOURS, SIDE TRACKS, AND CROSSOVERS – DESIGN AND CONSTRUCTION</b> Provide not less than 5 days notice before opening any side track, detour, or crossover, to traffic.	2.18.1	58		
<b>3 EARTHWORKS AND DRAINAGE MAINTENANCE</b>				
<b>CONFORMANCE - PROOF ROLLING</b> Give the Superintendent not less than 24 hours notice of the location and commencement time for the proof rolling. Give 48 hours notice for remote work (greater than 5 hours travel one way from regional centre).	3.12.2	72		
<b>4 CONFORMANCE TESTING</b>				
<b>NOTICE OF TESTING</b> Provide the Superintendent with a copy of the request for testing simultaneously with the request being sent to the Panel Period Contractor.	4.8	77		
<b>NOTICE OF TESTING</b> Notify the Superintendent prior to any rework of failed lots.	4.8	77		
<b>5 GRADING AND GRAVEL SHEETING</b>				
<b>CONFORMANCE - PROOF ROLLING NOTICE</b> Give the Superintendent not less than 24 hours notice of the location and commencement time for the proof rolling. Give 48 hours notice for remote work (greater than 5 hours travel one way from regional centre).	5.15.3	101		
<b>6 STABILISATION MAINTENANCE</b>				
<b>IN-SITU STABILISATION - SPREADING</b> Spread the cement or lime with methodology in accordance with this sub-clause.	6.6.4	106		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<b>7 SPRAY SEALING MAINTENANCE</b>				
<b>SAMPLING OF BINDER - COLLECTION OF SAMPLES</b> 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.	7.11.5	121 & 122		
<b>SPRAYING</b> Give the Superintendent 48 hours notice of intention to spray bitumen.	7.15	123		
<b>SPRAYING - PREPARATION FOR SPRAYER RUN</b> Record the volume and temperature of the sprayer contents before each run, while sprayer is on level ground. Dip Sprayer Tank before and after each sprayer run. Record the dip readings, and the temperature of the sprayer contents at the time the dip was done. Provide copies of records of Sprayer Tank dips and temperatures of tank contents within one day of the completion of a day's work.	7.15.4	124		
<b>SPRAYING - PREPARATION FOR SPRAYER RUN</b> Allow visual inspection of tanker dips when requested.	7.15.4	124		
<b>SPRAYING - PREPARATION FOR SPRAYER RUN</b> Check that the spray bar is at the correct height before spraying begins.	7.15.4	124		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<p><b>REPORTING – SPRAYSHEETS</b></p> <p>Supply spraysheets (paper or electronic formats are acceptable) to the Superintendent at the end of each day's production. Record the following information for all spray runs conducted.</p> <ul style="list-style-type: none"> <li>– Contractor's Name</li> <li>– Project Details</li> <li>– Contract Number</li> <li>– Specification schedule number</li> <li>– Road Name</li> <li>– Product Type Sprayed</li> <li>– Precoat type used, Precoat litres / m3</li> <li>– Aggregate supplier, Aggregate Type, Aggregate size</li> <li>– Run number, Start Time of spray run</li> <li>– Pavement Temperature, Ambient Temperature</li> <li>– Start Chainage of spray run – actual km of road</li> <li>– End chainage of spray run – actual km of road</li> <li>– Total Length, Width of spray run</li> <li>– Total area of spray run</li> <li>– Temperature of product at spraying</li> <li>– Start Dip, End Dip</li> <li>– Total sprayed hot, Correction factor, Total sprayed cold</li> <li>– Application rate cold</li> <li>– Ordered application rate</li> <li>– Percent of application rate ordered</li> <li>– Number of rollers used</li> <li>– Bitumen sample number</li> <li>– Signature of Contractor representative</li> <li>– Signature section for client representative</li> </ul>	7.20.1	128		
<p><b>PRICE ADJUSTMENT FOR BITUMEN – GENERAL</b></p> <p>The claim must be supported by adequate information to substantiate the adjustment in Unit Rates. The Contractor must provide details of the relevant average bitumen price indexes from both the date of Contract Award, and the commencement date of application of the seal or the approved program date for the commencement of sealing application. The commencement of sealing date is to be confirmed by the Superintendent.</p>	7.23.1	132		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<b>8 BITUMINOUS SURFACE MAINTENANCE</b>				
SPRAY SEALING – AREAS LESS THAN 300m <sup>2</sup> - PREPARATION FOR SPRAYER RUN Allow visual inspection when requested.	8.16.3	149		
<b>9 CONCRETE MAINTENANCE</b>				
FORMWORK Do not place concrete until the formwork has been inspected by the Superintendent.	9.10	155		
HANDLING AND PLACING Give the Superintendent sufficient notice so that inspection may be made before and during pouring concrete.	9.11	155		
<b>10 DRAINAGE MAINTENANCE</b>				
MATERIALS - PRECAST REINFORCED CONCRETE BOX CULVERTS Give the Superintendent notice prior to casting concrete.	10.5.3	160		
CONSTRUCTION OF CULVERTS AND STRUCTURES – EXCAVATION Excavate unsuitable material below specified level if directed by the Superintendent.	10.6.2	161		
CONSTRUCTION OF CULVERTS AND STRUCTURES - CONNECTION TO EXISTING SYSTEMS Advise Superintendent within two days when clean out is completed.	10.6.8	163		
CONSTRUCTION OF CULVERTS AND STRUCTURES – BACKFILL Notify the Superintendent before backfilling where holes or fissures occur in rock trenches.	10.6.9	163		
INLET AND OUTLET CHANNELS Advise superintendent within two days when clean out is completed.	10.8	164		
SUBSOIL DRAINS - END WALLS Advise Superintendent within two days when clean out is completed.	10.11.1.6	165		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
<b>CLAUSE TITLE</b>	<b>CLAUSE</b>	<b>PAGE NO</b>	<b>INITIALS</b>	<b>DATE</b>
<b>12 ROAD FURNITURE MAINTENANCE</b>				
TACTILE GROUND SURFACE INDICATORS (TGSIs) Provide a 5 year warranty for the materials used, and for the devices installed as tactile ground surface indicators. Provide a 5 year warranty for the workmanship for the installation of the tactile ground surface indicators. Both warranties to be in the name of the Principal.	12.7	179 & 180		
TACTILE GROUND SURFACE INDICATORS (TGSIs) Provide documentary evidence that the TGSIs meet the minimum performance criteria.	12.7	179 & 180		
PLASTIC FLEXIBLE GUIDE POSTS - PRODUCT DATA Submit details of the proposed flexible guide post including the following: <ul style="list-style-type: none"><li>– Manufacturer’s details on the materials, and the properties of the materials, used in the manufacture of the guide posts.</li><li>– Manufacturer’s recommended installation procedures.</li><li>– Technical specifications.</li><li>– Test results per the test sub-clauses.</li></ul>	12.9.3	182		
PLASTIC FLEXIBLE GUIDE POSTS – WARRANTIES Submit the manufacturer’s published product warranties in the name of the Principal.	12.9.4	182		
STEEL FLEXIBLE GUIDE POSTS – PRODUCT DATA Submit details of the proposed steel guide posts including the following: <ul style="list-style-type: none"><li>– Manufacturer’s details on the materials used in the manufacture of the guide posts.</li><li>– Manufacturer’s recommended installation procedures.</li><li>– Technical specifications.</li></ul>	12.10.3	184		
STEEL FLEXIBLE GUIDE POSTS – WARRANTIES Submit the manufacturer’s published product warranties in the name of the Principal.	12.10.4	184		



<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<b>13 PAVEMENT MARKING MAINTENANCE</b>				
PAVEMENT MARKING APPLICATION Obtain approval from the Superintendent for the type of equipment to be used for applying pavement marking materials.	13.8	206		
PAVEMENT MARKING APPLICATION Produce documented evidence to show that the spraying equipment has been calibrated in accordance with PCCP requirements and is certified by PCCP as being suitable for the works to be carried out under this contract.	13.8	206		
PAVEMENT MARKING APPLICATION Obtain Superintendent's approval for variation to the any of the above requirements.	13.8	206		
COLD APPLIED PLASTIC 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.	13.11	209		
<b>14 LANDSCAPE MAINTENANCE</b>				
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.	14.12.3	219		
MATERIALS - 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.	14.12.4	219		
IRRIGATION OPERATION AND MAINTENANCE - SYSTEM SHUTDOWN Advise the Superintendent of the full shut down and re-activation of irrigation systems.	14.26.5	230		
IRRIGATION OPERATION AND MAINTENANCE - IRRIGATION DAY AND NIGHT CYCLE LATE IN DRY SEASON Advise the Superintendent of altered irrigation cycle times.	14.26.6	230		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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IRRIGATION OPERATION AND MAINTENANCE - RESET IRRIGATION TIMERS DURING SCHOOL HOLIDAYS Advise the Superintendent of such action taken.	14.26.7	230		
<b>15 SLASHING AND WEED CONTROL</b>				
VEGETATION CONTROL – CHEMICALS Submit to the Superintendent the list of herbicides and other chemicals intended for use during the contract, details of vegetation controlled by the herbicide, and duration of control per treatment.	15.10.4	240		
VEGETATION CONTROL – CHEMICALS Provide copies of the permits.	15.10.4	240		
PERSONNEL HANDLING CHEMICALS Personnel carrying out spraying operations must have undertaken and passed a National Farm Chemical User Training Program. Provide a list of the names of personnel who will be using chemicals in spraying operations. Provide documentary evidence that those people have successfully completed the required training.	15.10.5	240		
<b>16 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE</b>				
PROCEDURES, CALLS AND PAYMENTS - DAILY LOG BOOKS – APPROVAL Submit to the Superintendent’s Representative for approval, a suitably designed format for an individual Site Log template prior to commencing works under the Contract – to be provided within 7 days of award of contract.	16.15.10	262		
SPECIFIC MAINTENANCE – TRAFFIC SIGNALS & ITS Audit Supervision. Following Traffic Section’s direction to undertake a specific maintenance audit, the Contractor shall coordinate with Traffic Section to arrange a suitable time to undertake the audit to allow supervision of the works to be scheduled if required by the Superintendent’s Representative.  Notify the Superintendent’s Representative of any variation to the program at least 5 working days prior to any scheduled audit, the commencement of any altered programmed work, or original work program.	16.22	270		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<p><b>SUPPLY AND MANAGEMENT OF MATERIALS AND EQUIPMENT - SALVAGED ITEMS</b></p> <p>Following an incident where traffic signal equipment or ITS such as a signal pole and hardware, signal controller or CCTV camera has been severely damaged, provide adequate notice to allow for Superintendent’s Representative to arrange inspection of the equipment prior to dismantling. If this is not possible due to the urgent nature of the situation, take photos of the equipment in its existing location, then relocate back to the Contractor’s storage yard without causing further damage, for inspection.</p>	16.29.7	277		
<p><b>SUPPLY &amp; MANAGEMENT OF MATERIALS AND EQUIPMENT - TEST CONTROLLER</b></p> <p>Test Controllers to be displayed in working operation to the Superintendent’s Representative within 14 days of the contract being awarded.</p>	16.29.8	277		
<p><b>SUPPLY &amp; MANAGEMENT OF MATERIALS AND EQUIPMENT - TEST TRAFFIC SIGNAL LOOP</b></p> <p>The Contractor shall provide and install a testing loop at the approved workshop within 14 days of this contract being awarded, for the purpose of testing detector cards. The test loop shall be installed in accordance with the most current relevant standard drawing for detector installation and connected to the test controller and be used for testing the operation of controller detector cards (it is recommended that a switching device be installed to aid in testing detector channels). It is entirely the Contractor’s responsibility to ensure that this device is maintained in a functional and serviceable condition suitable for its purpose at all times. The device shall be available for use in conjunction with this contract twenty four (24) hours per day.</p>	16.29.9	277		
<b>17 TRAFFIC SIGNALS AND INTELLIGENT TRANSPORT SYSTEMS MAINTENANCE</b>				
<p><b>EXCAVATION – GENERAL – COLUMN FOOTINGS</b></p> <p>Notify the Superintendent immediately if rock is encountered.</p>	17.10.2	306		
<p><b>EXCAVATION – GENERAL – TRENCHES</b></p> <p>Notify the Superintendent when trench excavation is complete and before backfilling has commenced.</p>	17.10.3	306		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<b>BACKFILLING – MATERIAL</b> Provide samples of bedding sand and select fill if requested by the Superintendent.	17.12.1	306		
<b>TESTING AND COMMISSIONING – COMPLIANCE</b> Submit a compliance certificate stating that all works have been completed as specified to this worksection and to Power and Water Corporation requirements.	17.16.3	308		
<b>19 AERODROME AND AEROPLANE LANDING AREA MAINTENANCE</b>				
<b>STANDARDS AND PUBLICATIONS – SITE RULES – AERODROMES</b> Contractors should also have a Drug and Alcohol Management Plan (DAMP) in place under Part 99 of the CASR and have completed a DAMP Certificate on the AviationWorx portal of the CASA Website. Provide a copy of the submitted DAMP and a copy of the DAMP Certificate to the Superintendent.	19.3.4	317 & 318		
<b>AERODROME REPORTING OFFICERS (ARO)</b> Provide the names, contact details, and qualifications/training details of the AROs who will provide the ARO functions under the contract.	19.7	319		
<b>AERODROME REPORTING OFFICERS (ARO) – NEW OR TEMPORARY AROS</b> Where there is a requirement for New or Temporary AROs, advise the Superintendent of the name, contact details, and qualifications details for the New ARO, or Temporary ARO, and the period for which they will be in that role.	19.7.4	320		
<b>SERVICEABILITY REPORTING OFFICER (SRO)</b> Provide the names, contact details, and qualifications/training/competencies details of the SROs who will provide the inspection functions under the contract.	19.8	320		
<b>AERODROMES AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOG BOOK AND REPORTS - AERODROMES</b> Simultaneously notify the Superintendent immediately deficiencies are noted at the aerodrome.	19.10.2	321		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<p><b>AERODROMES AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOG BOOK AND REPORTS - AERODROMES</b></p> <p>Submit to the Superintendent the ARO inspection and maintenance checklist reports on a monthly basis as part of the claims for payment verification.</p>	19.10.2	321		
<p><b>AERODROMES AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOG BOOK AND REPORTS - AERODROMES</b></p> <p>Submit to the Superintendent copies of medivac logs, verified by the nurse-in-charge, or by a police officer, with the claim for payment which includes the medivacs.</p>	19.10.2	321		
<p><b>AERODROMES AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOG BOOK AND REPORTS - AERODROMES</b></p> <p>Provide substantiated evidence of the ARO activities, as well as the regular monthly inspections and maintenance checklist reports, as part of any claims for payment.</p>	19.10.2	321		
<p><b>ALAS AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOGBOOK AND REPORTS – ALAS</b></p> <p>Simultaneously notify the Superintendent immediately when deficiencies are noted at the ALA.</p>	19.11.2	322		
<p><b>ALAS AND FREQUENCY OF SERVICEABILITY INSPECTIONS – INSPECTION LOGBOOK AND REPORTS – ALAS</b></p> <p>Submit to the Superintendent the SRO inspection and maintenance checklist reports on a monthly basis as part of the claims for payment verification.</p>	19.11.2	322		
<p><b>METHOD OF WORKING PLANS – AERODROMES - AMENDMENTS</b></p> <p>If a MOWP is amended after it is supplied to the persons mentioned above in Distribution of MOWP sub-clause, the amended MOWP must:</p> <ul style="list-style-type: none"> <li>– be supplied to those persons as soon as possible but not later than 48 hours before the works commence; and</li> <li>– clearly show the amendment that has been made.</li> </ul>	19.13.5	323		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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DAILY LOG BOOKS – APPROVAL Approval - Submit to the Superintendent for approval a suitably designed format for daily log books prior to commencing works under the Contract.	19.20	324		
PROCEDURES, CALLS, AND PAYMENTS - REPAIR DATA MANAGEMENT SYSTEM (KONECT) If the situation arises that the system software program is not operational during programmed works the Contractor must immediately notify the Superintendent of the failure..	19.22.9	328		
PROCEDURES, CALLS, AND PAYMENTS - REPAIR DATA MANAGEMENT SYSTEM (KONECT) The supplied spreadsheet shall be used as a manual alternative reporting format that shall provide all details that would normally be captured with the KONECT system. Provide copies of the spreadsheets with the CSR.	19.22.9	3328		
INSPECTIONS – AERODROMES - DEFECT REPAIR When the repair is done the ARO shall use the system to record when the repair was done and provide evidence in the form of photographs confirming the process/method of repair and the satisfactory completion of the works. This evidence may be used to allow the Project Officers to make payment.	19.24.4	330		
INSPECTIONS - AERODROMES - DEFECT REPAIR Evidence in the same format as all other defects will be required. This is particularly relevant when works orders are submitted to undertake repairs between specific locations, where the ARO will be required to log and mark as repaired any defects that exceed the Department's intervention level as part of the repair process.	19.24.4	330		
MAINTENANCE WORKS - AERODROMES Where work is required to be carried out in easements or on land adjacent to the site for the purpose of connecting services or joining up of roads etc. obtain the appropriate licences, approvals, and/or permits for access to, and to undertake the works in, those particular areas. Provide copies to the Superintendent.	19.26	331		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<b>PROGRAMMING OF ROUTINE MAINTENANCE WORKS - AERODROMES</b> Within two weeks of the Contract being awarded provide a draft Service Program of the proposed inspections and staging of the routine scheduled maintenance work throughout the year. Submit a copy to the Superintendent for approval.	19.27	331		
<b>VEGETATION AND WEED CONTROL - CHEMICALS</b> Submit to the Superintendent the list of herbicides and other chemicals intended for use during the contract, details of vegetation controlled by the herbicide, and duration of control per treatment.	19.32.2	333		
<b>VEGETATION AND WEED CONTROL – PERSONNEL HANDLING CHEMICALS</b> Personnel carrying out spraying operations shall have undertaken and passed a National Farm Chemical User Training Program. Provide a list of the names of personnel who will be using chemicals in spraying operations. Provide documentary evidence that those people have successfully completed the required training.	19.32.3	333		
<b>20 BUS STOP MAINTENANCE</b>				
<b>PROCEDURES, CALLS AND PAYMENTS - DAILY LOG BOOKS – APPROVAL</b> Approval - Submit to the Superintendent for approval a suitably designed format for daily log books prior to commencing works under the Contract.	20.27.10	358		
<b>21 ROAD AND MARINE AMENITY MAINTENANCE</b>				
<b>PROGRAM OF WORKS</b> Submit a Program of Works to the Superintendent for approval prior to contract commencing.	21.7	362 & 363		
<b>RUBBISH COLLECTION – RUBBISH COLLECTION OPERATIONS</b> Normal rubbish collection does not include illegal signage or abandoned vehicles or equipment, however, report these items to the Superintendent.	21.10.2	365		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<b>RUBBISH COLLECTION – RUBBISH COLLECTION OPERATIONS</b> Report to the Superintendent any occurrences of concrete spills, gravel, sand or soil on any trafficable surface. These materials are not rubbish under the terms and conditions of the contract and may be removed by others. If not removed by others, remove upon issue of direction to work from the Superintendent at a fair and reasonable negotiated rate.	21.10.2	365		
<b>RUBBISH REMOVAL - DEODORIZING RUBBISH BINS</b> Use Nilodew granules as manufactured by Nilodor Inc. or equivalent as approved by the Superintendent.	21.11.3	367		
<b>RUBBISH REMOVAL - ILLEGAL RUBBISH COLLECTION</b> Report to the Superintendent any occurrences of illegal rubbish dumping, vegetation dumping, concrete spills, gravel, sand or soil on any trafficable surface. These materials are not rubbish under the terms and conditions of the contract and may be removed by others. If not removed by others, remove upon issue of direction to work from the Superintendent, to be paid for at unit rates nominated in scheduled rates, or at negotiated rate.	21.11.6	369		
<b>WEEDING – CHEMICALS</b> Submit to the Superintendent the list of chemicals intended for use during the contract, if herbicide is intended for use, details of pest species controlled by the chemicals, and life expectancy of control.	21.18.3	378		
<b>REMOVAL OF ABANDONED VEHICLES - SERVICE LEVELS FOR VEHICLE REMOVAL</b> Report any vehicle suspected of being abandoned to the Superintendent within 24 hours of observation.	21.27.1	391		
<b>CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – BOAT RAMPS AND BARGE LANDINGS CONCRETE DECK – REINFORCEMENT CORROSION AND CONCRETE REMEDIATION</b> Contact the Superintendent if any spalling or broken concrete is present.	21.28.3.3	392		



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<b>CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – SHOULDER AND SHOULDER BATTERS</b> For stone pitched structures notify Superintendent if suitable stone is not available in reasonable proximity to the site(s) of the works.	21.28.4	393		
<b>CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – NAVIGATIONAL AIDS</b> Submit reports detailing what items and attributes of them were inspected/tested/checked, the design operational performance attributes and values, and the measured values of those attributes at inspection/testing/checking.	21.28.7	394		
<b>CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – NAVIGATIONAL AIDS – LENSES AND LIGHTS</b> Submit reports detailing what items and attributes of them were inspected/tested/checked, the design operational performance attributes and values, and the measured values of those attributes at inspection/testing/checking.	21.28.7.1	394		
<b>CLEANING AND MAINTENANCE OF BOAT RAMPS AND BARGE LANDINGS – NAVIGATIONAL AIDS – SOLAR PANELS</b> Submit reports detailing what items and attributes of them were inspected/tested/checked, the design operational performance attributes and values, and the measured values of those attributes at inspection/testing/checking.	21.28.7.2	395		
<b>CLEANING AND MAINTNENANCE FOR JETTYS, PONTOONS, FISHING PLATFORMS AND FILLETING TABLES – JETTYS, PONTOONS, FISHING PLATFORMS AND FILLETING TABLES PREVENTATIVE MAINTNENANCE</b> Obtain Superintendent’s approval to engage the structural engineer or certifier.	21.29.3	396		
<b>22 PROTECTIVE COATINGS</b>				
<b>CONTRACTOR’S RESPONSIBILITIES</b> Provide documentary evidence of PCCP accreditation before commencing protective coatings work.	22.7	403		

<b>SCHEDULE 2 – WITNESS POINTS</b>				
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<b>EQUIPMENT - EQUIPMENT</b> Give notice so that the oil carry-over test may be witnessed by the Superintendent or their nominated representative.	22.11.2	404		
<b>ENVIRONMENTAL CONDITIONS</b> Provide copies of Environmental Test Reports to AS 3894, Parts 10, 11, and 12. In addition provide Reports to AS 3894 Parts 13 and 14 for structural steel.	22.12	404		
<b>APPLICATION OF PROTECTIVE COATINGS - COATING</b> 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.	22.15.2	406		
<b>APPLICATION OF PROTECTIVE COATINGS - COATING DEFECTS</b> 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.	22.15.7	407		
<b>CONTRACTOR RECORDS</b> Maintain these reports on a daily basis. Submit them to the Superintendent when requested, or, if not specifically requested, at least weekly.	22.18	408		
<b>CONTRACTOR RECORDS - FILM THICKNESS</b> 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.	22.18.1	408		