

# Transport and Main Roads Standard Drawings Roads

## Amendment Register – 2014 to 2021

### Publication Cycle

Standard Drawing updates are released tri-annually: March, July and November.

The below amendment table captures the respective amendments and any approved exceptions to the tri-annual cycle.

### March 2021

Drawing	Title	Change Type	Description of change
SD1149	Traffic Signals / Road Lighting / ITS – Installation of Underground Electrical and Communication Conduit	Amended	<ul style="list-style-type: none"> <li>Installation of Underground Electrical and Communications Conduits</li> </ul>
SD1250	R C Box Culverts and Slab Link Box Culverts – Culverts Height > 600, Drawing 1 of 3 – General Arrangement and Notes Drawing 2 of 3 – Construction of Base Slabs and Aprons Drawing 3 of 3 – Installation of Precast Units and Construction of Headwalls & Wingwalls	Amended	<ul style="list-style-type: none"> <li>Base slab dimensions are extended by 100mm at each side</li> <li>Maximum design presser (<math>E_d</math>) referred to in Note 3 on Drawing 1 is now specified in the Base Slab</li> <li>Details table on Drawing 2 of each Standard Drawing</li> <li>Purpose Statement is also simplified to better describe the limitations and adaptability of the design detailed in the drawings, and options that can be explored to resolve geotechnical problems</li> </ul>
SD1260	R C Box Culverts and Slab Link Box Culverts – Culverts Height = 375 to 600, Drawing 1 of 2 – General Arrangement and Notes Drawing 2 of 2 – Base Slab and Apron Details and Installation of Precast Units		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1270	Fish Passage – RC Box Culverts in ADR Red Mapped Waterways Drawings 1 of 2 and 2 of 2	Amended	<ul style="list-style-type: none"> <li>• An extra detail is now added to explain how to treat the bend in the safety rails</li> <li>• A potential galvanising issue is eliminated by using silicone to fill the ferrules prior to galvanising</li> <li>• Referencing to the baffles is expressed as 150 protrusion into flow for the spacing shown, and an explanation added to General Note 1, revised to match the intent of the ADR</li> <li>• Drawing noted were amended to carry out risk assessment potential pedestrian at the culvert</li> <li>• Note added for alternative baffle fixing details and submission for approvals</li> </ul>
SD1271	Fish Passage – RC Box Culverts in ADR Amber Mapped Waterways	Amended	<ul style="list-style-type: none"> <li>• Wording of the culvert array dimension at the elevation on the drawing is revised to match the intent of ADR</li> </ul>
SD1307	Access Chamber – Cast Insitu Details for 1050 to 2100 Diameter Roadway Type Access Chamber	Amended	<ul style="list-style-type: none"> <li>• Pipes withing chamber are now drawn as protruding into the chamber and on or above the floor</li> <li>• Plan view of the reinforcement details is now split into 2 Part Plans, for the chamber and for the collar</li> <li>• The note for benching is reworded to show that the detail is indicative only</li> <li>• Allowable bearing pressure is added</li> </ul>
SD1330	Road Lighting – Underbridge Lighting	Amended	<ul style="list-style-type: none"> <li>• Luminaire installation is revised from 5 ° pitch to be level, and specific product references are removed to align with the recent revision of MRTS94</li> <li>• Welding and fabrication details are amended and simplified</li> <li>• A new note is added for alternative installation for very wide girder flanges</li> <li>• Chemical anchors are amended from bolt to threaded rod with lock nut</li> <li>• Steel packers are amended from steel packer to be CHS sleeve for each rod</li> <li>• Presentation of all details is revised to read better, and all Notes were revised and updated</li> </ul>
SD1395	Road Lighting – Base Plate Mounted Pole within Concrete Barrier – Footing Details and Installation of Pole	Amended	<ul style="list-style-type: none"> <li>• An extra column for barrier type by location is added to the Footing Details table, with a note that installations at verge barrier</li> <li>• Orientation of Diagram on the drawing has been amended to show 2 scenarios</li> <li>• Sections added to complement Elevation</li> <li>• Information about the concrete infill detailed between the footing and the cut surface of the barrier is reinstated to the Elevation</li> <li>• Installation Sequence Note 6 amended, and Note 8 simplified</li> <li>• Drawing name revised</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1415	Traffic Signals / Road Lighting – Circular Cable Jointing Pit Types 60 and 100	Amended	<ul style="list-style-type: none"> <li>Changes to cover new Type 100 Circular Pits</li> </ul>
SD1416	Traffic Signals / Road Lighting – Collar for Circular Cable Jointing Pit		
SD1417	Traffic Signals / Road Lighting – Cable Jointing Pit Circular Pit Cover Drawings 1 of 2 and 2 of 2		
SD1630	Traffic Signals / Road Lighting – Conduit Entry Details into Circular Pits		
SD1681	Traffic Signals / Road Lighting – Riser for Circular Cable Jointing Pit		
SD1685	Traffic Signals / Road Lighting – Precast Concrete Surround for Circular Pit		
SD1430	Road Lighting – Switchboard Pillar Mounted Sheets 1 of 2 and 2 of 2	Amended	<ul style="list-style-type: none"> <li>Additional page(s) added for switchboard not requiring the inclusion of a PE Cell and associated hardware</li> </ul>
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram MEN System		
SD1627	Road Lighting – Switchboard Top Mounted Sheets 1 of 2 and 2 of 2		
SD1676	Road Lighting – Switchboard Typical Pillar Layout Sheets 1 of 2 and 2 of 2		
SD1686	Road Lighting – Switchboard Assembly Details Sheets 1 of 6 to 6 of 6		

Drawing	Title	Change Type	Description of change
SD1687	Road Lighting – Metered Switchboard Assembly Details Single Phase Sheets 1 of 2 and 2 of 2		
SD1688	Road Lighting – Metered Switchboard Assembly Details Three Phase Sheets 1 of 2 and 2 of 2		
SD1440	Traffic Signals / Road Lighting – Cable Jointing Pit Rectangular Concrete Surround	Amended	<ul style="list-style-type: none"> <li>• Cable Jointing Pit Rectangular Concrete Surround</li> </ul>
SD1469	Single Slope Concrete Barrier – Fabrication and Installation Details for Cover Plates at Road Lighting Poles in Concrete Barriers	Amended	<ul style="list-style-type: none"> <li>• All information and details have been revised and reordered to read better, and typo's have been corrected.</li> </ul>
SD1474	Steel Beam Guardrail – Installation and Setout	Withdrawn	Removal of Public Domain Barrier Systems including: <ul style="list-style-type: none"> <li>• Steel barriers: w-beam, thrie beam and modified thrie beam</li> <li>• End terminals: MELT and Departure End Terminals (DET), and</li> <li>• Other: Thrie-beam bullnose.</li> </ul> The withdrawn drawings will continue to be available (if required for design exceptions) on the departmental website via the Superseded Drawings webpage.
SD1476	Steel Beam Guardrail – Terminal Components		
SD1478	Steel Beam Guardrail – W Beam Anchor Bracket Delineation Unit Post on Base Plate Abraham Blockout		
SD1479	Steel Beam Guardrail – Bolts, Nuts, Screws and Washers, Cable Assembly with Fasteners		
SD1480	Steel Beam Guardrail – Fabrication Details for W Beam Rails and Rail Components		
SD1483	Steel Beam Guardrail – Thrie Beam Layouts		

Drawing	Title	Change Type	Description of change
SD1488	Steel Beam Guardrail – Thrie Beam Bullnose Installation and Setout		
SD1489	Steel Beam Guardrail – Thrie Beam Bullnose Components		
SD1477	Steel Beam Guardrail – Posts and Blockouts, Soil and Bearing Plates, Slip Base Plate	Administrative	<ul style="list-style-type: none"> <li>Issue note added advising these drawings shall not be used on new projects or installations within the TMR network, except when designing a connection to concrete.</li> </ul>
SD1481	Steel Beam Guardrail – Fabrication Details for Thrie Beam Rails and Rail Components		
SD1482	Steel Beam Guardrail – W Beam and Thrie Beam Assemblies		
SD1708	Traffic Signals – Sensor Extension to Traffic Signal Post	Amended	<ul style="list-style-type: none"> <li>Details and Notes are amended to M 12 U-bolts with thin nut first and then structural nut.</li> </ul>

## **November 2020**

Drawing	Title	Change Type	Description of change
SD1250	R C Box Culverts and Slab Link Box Culverts – Culverts Height = 375 to 600	Amended	<ul style="list-style-type: none"> <li>Drawing notes pertaining to the foundation design and design exclusions where unsuitable geotechnical condition is encountered, is updated.</li> <li>Design maximum bearing pressure is specified.</li> <li>Surface roughening of the aprons, and slab, if required, by applying a broom finish, is added to improve worker safety.</li> </ul>
SD1260	R C Box Culverts and Slab Link Box Culverts – Culverts Height > 600		
SD1309	Concrete Gully – Field Inlet Type 1	Amended	<ul style="list-style-type: none"> <li>Note 7 for grates and frames is amended to align with departmental Cycling Infrastructure Policy and AS 3396:2019, and to remove any ambiguity of the use of approved grating products.</li> </ul>
SD1310	Concrete Gully – Field Inlet Type 2		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1421	Traffic Signals – Traffic Signals Post and Footing Installation Details	Amended	<ul style="list-style-type: none"> <li>Added reference to SD1721 due its relevance and to provide more clarity.</li> <li>Added note to include provision for 20 mm conduit for earthing to accommodate post top mount switchboard as per SD1627.</li> </ul>
SD1438	Traffic Signals – Hinged Base Plate for Traffic Signals Post Installation	Amended	<ul style="list-style-type: none"> <li>Water drainage arrangement modified to be 25 mm mini trench. This provides improved drainage of water away from footing.</li> </ul>
SD1689	ITS – Switchboard Typical Layout and Circuit Diagram Men System (Sheet 1 of 3 and 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Main neutral and earthing connections modified so that both are connected to the main terminal bolt at their respective bars. This serves to distinguish the main neutral and earth conductors and to keep them intact.</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS - Parts List	Amended	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1710	Traffic Signals / ITS – Uninterrupted Power Supply (UPS) Wiring Schematic	Amended	<ul style="list-style-type: none"> <li>Main neutral and earthing connections modified so that both are connected to the main terminal bolt at their respective bars (similar to SD1689).</li> <li>Added two more alarm functionalities into the PLC-Door switch and Bypass switch.</li> </ul>
SD1771	Power Extension for ITS Devices – PSC MK3 Controller Additional Power Outputs via RCD Protected G.P.O.	Withdrawn	<ul style="list-style-type: none"> <li>All Standard Drawings will be replaced and issued in future.</li> </ul>
SD1772	Power Extension for ITS Devices – PSC MK1 and 2 Controller Additional Power Outputs via RCD Protected G.P.O.		
SD1773	Power Extension for ITS Devices - PSC MK3 Controller with Tophat Additional Power Outputs Via RCD Protected G.P.O.		
SD1774	Power Extension for ITS Devices - PSC MK1 and 2 Controller with Tophat Additional Power Outputs Via RCD Protected G.P.O.		
SD1775	Power Extension for ITS Devices - PSC MK1 and 2 Controller Additional Power		

Drawing	Title	Change Type	Description of change
	Outputs Protected G.P.O. Via RCD Optional Field Processor Location		
SD1776	Power Extension for ITS Devices - PSC MK3 Controller Additional Power Outputs Via RCD Protected G.P.O. Optional Field Processor Location		
SD1777	Power Extension for ITS Devices - Tyco Eclipse Controller Additional G.P.O.'s Via Existing RCD G.P.O. plus Communications Equipment		
SD1906	ITS – WIM Piezo Sensor Installation Details	Amended	<ul style="list-style-type: none"> <li>Error relating to the dimensions of the slot in which piezo sensor is installed is corrected to "19 mm wide x 25 mm deep". Loops' electrical characteristics are specified.</li> </ul>
SD1910	ITS – WIM Sensor Configuration Piezo- Piezo	Amended	<ul style="list-style-type: none"> <li>Notes about loops installation are removed as loop is not required in this plan. Maximum AADT condition (5000 per direction) for the application of "Single Carriageway Dual Direction Configuration" is added. "Dual Carriageway Single Direction 2 Lanes" and "Dual Carriageway Single Direction 2 Lanes" diagrams are removed.</li> </ul>
SD1911	ITS – WIM Sensor Configuration Strain Gauge Sensor (Sheet 1 of 2 and 2 of 2)	Amended	<ul style="list-style-type: none"> <li>The length of piezo sensors is specified. The official document title of SD1906 as quoted under the REFERENCED DOCUMENTS section is corrected.</li> </ul>
SD2203	Bridge Traffic Barriers – Bridge Safety Rail for Pedestrian Only Path	Amended	<ul style="list-style-type: none"> <li>The vent hole set out for the posts is amended from 25 mm to 11 mm, to ensure the quality of the galvanising.</li> </ul>

## July 2020

Drawing	Title	Change Type	Description of change
SD1033	Kerb and Channel – Profiles	Amended	<ul style="list-style-type: none"> <li>Note 2. Kerb transition length altered to 1.5 (min). Correction of errors on last revision namely dimension on Type 6/7 corrected from 300 to 110 and radius shown on Type 10/11 corrected from R25 to R225.</li> <li>Drafting updates</li> </ul>

Drawing	Title	Change Type	Description of change
SD1250	R C Box Culverts and Slab Link Box Culverts – Height = 375 to 600 (Drawing 1 of 1, 2 of 2 and 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Drawing 1: Purpose notes are amended at Note 2 to now offer designers the option to propose alternative design solutions that can utilise the stated bearing pressure in lieu of ground improvements, or the ground improvement is not feasible.</li> <li>Drawing 3: The formula for wingwall height (Hw) is corrected to be the same as Revision A.</li> </ul>
SD1327	Traffic Signals / Road Lighting Mains Connections	Amended	<ul style="list-style-type: none"> <li>Note 10 has been added to conform to Energex requirements.</li> </ul>
SD1333	Minimum Clearance of Overhead Electric Lines from Ground and Structures	Amended	<ul style="list-style-type: none"> <li>The updated Standard Drawing now includes recent Energex “preferred category” clearances for lower than 66kV overhead lines (issued April 2020). The wording in the “minimum clearance from ground” category was modified to align with changes in A500-2020 Standard for Distribution Line Design Overhead (Figure 12-6 &amp; Figure 12-7 – Minimum and Preferred Clearance Requirements, Pages 68 &amp; 69 respectively). Also refer to Note 11 &amp; Note 14).</li> </ul>
SD1403	Traffic Signals – Mast Arm and Footing Installation Details	Amended	<ul style="list-style-type: none"> <li>The installation details are amended to show structural washers in use on the levelling nuts under the base plate, instead of fibre compressible washers. Installation Sequence Note 6 is amended to read that these washers are to be placed on the levelling nuts.</li> </ul>
SD1484	Steel Beam Guardrail - Batter Slope Terminals 1 on 1 and Steeper - General Arrangement and Installation Details	Amended	<ul style="list-style-type: none"> <li>Title change, previously titled "Steel Beam Guardrail - Batter Slope Terminals (1 on 1 and Steeper)</li> <li>The guardrail details that are duplication of content already on source drawing 1475, have been deleted.</li> <li>All views, materials and connection details and notes are updated for currency.</li> </ul>
SD1485	Steel Beam Guardrail - Batter Slope Terminals 1 on 1 and Steeper - Concrete Terminal Block	Amended	<ul style="list-style-type: none"> <li>Title change, previously titled "Steel Beam Guardrail – Reinforcing Details for Concrete Terminal block"</li> <li>Reinforcing details are revised for square concrete profile ensuring simpler fabrication and installation of the reinforcement.</li> <li>Notes amended and updated to reflect these changes and aligned to current standards.</li> </ul>
SD1683	Pathway Lighting – Anchor Cage Fabrication and Installation Details	Amended	<ul style="list-style-type: none"> <li>The installation details are amended to show the correct location for the fibre compressible washers, as being on the levelling nuts under the base plate, and mortar pad is increased to 60 thick. Installation Sequence Note 6 is amended to read that these washers are to be placed on the levelling nuts.</li> </ul>
SD1685	Precast Concrete Surround for Circular Pit	Amended	<ul style="list-style-type: none"> <li>Change of Note 3 to requirements on circular pit surrounds, now consistent with MRTS70 <i>Concrete</i> and AS 3600.</li> </ul>



Drawing	Title	Change Type	Description of change
SD1721	Traffic Signals – Base Mounted Traffic Signals Post – Assembly and Details	Amended	<ul style="list-style-type: none"> <li>The grade of steel for the base plate is reinstated to the Materials List, and the readability of this list has been improved by reordering to read top down.</li> <li>Correcting this omission will eliminate any confusion or inconvenience caused to all stakeholders.</li> </ul>
SD1807	Property Access – Rural Property Access (Drawing 1 of 1 and 2 of 2)	New	<ul style="list-style-type: none"> <li>This new standard drawing provides greater clarity on Transport and Main Roads requirements to small development applications and/or property owners who are requesting a new access or change to an existing access. It includes technical guidance and standard details of rural property accesses.</li> </ul>
SD2242	Abutment Protection – Type 8 – Riprap protection – Height up to 6 metres	New	<ul style="list-style-type: none"> <li>This new standard drawing provides typical details and criteria for the use of rip rap as scour abutment protection for waterway bridge abutments on departmental projects.</li> </ul>

### March 2020

Drawing	Title	Change Type	Description of change
SD1033	Kerb and Channel - Profiles	Amended	<ul style="list-style-type: none"> <li>Ramped vehicular crossing detail removed</li> <li>Designers to nominate details for crossing</li> <li>Concrete grades clarified</li> </ul>
SD1243	Precast Culvert Headwalls - Headwall Connections for Culverts (Drawing 1 of 3 to Drawing 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Connection designs for larger culverts on drawings 2 &amp; 3 may be used in place of details on drawing 1, and for smaller size culverts where concrete supply is not constrained</li> <li>Square washer in drawing 1 detail 2 is replaced with circular washer to match to match the recess</li> <li>Scope statement updated so the project designer can select a project specific precast headwall unit</li> <li>Wing end height of 400 and wing angle of 30° are now specified to align with SD1250 and SD1304</li> </ul>
SD1250	R C Box Culverts and Slab Link Box Culverts - Culvert Height > 600 (Drawing 1 of 3 to Drawing 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Wingwall reinforcement simplified to bar reinforcement, no mesh in wingwalls</li> <li>Plan views of multicell skewed culverts revised to demonstrate typical staggered arrangement for 2<sup>nd</sup> or subsequent rows of crown units and link slabs</li> <li>Weephole drainage replaced with strip filter drainage system</li> <li>The "Fit for purpose RPEQ certification disclaimer" is revised</li> </ul>
SD1270	Fish Passage - RC Box Culverts in ADR Red Mapped Waterways (Drawings 1 to 2 to Drawings 2 to 2)	New	<ul style="list-style-type: none"> <li>Introduced to align with Department of Agriculture and Fisheries document "Accepted Development for Operational Work that is Constructing or Raising Waterway Barrier Works (ADR)"</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1271	Fish Passage - R C Box Culverts in ADR Amber Mapped Waterways	New	<ul style="list-style-type: none"> <li>Introduced to align with Department of Agriculture and Fisheries document "Accepted Development for Operational Work that is Constructing or Raising Waterway Barrier Works (ADR)"</li> </ul>
SD1304	Pipe Culverts - Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400 (Drawing 1 of 2 and Drawing 2 of 2)	Amended	<ul style="list-style-type: none"> <li>The "Fit for purpose RPEQ certification disclaimer" is revised to provide the designer with possible actions to be undertaken to improve site conditions</li> <li>Design ultimate bearing pressure under the headwall and wingwall footings is now provided at Note 2 of Drawing 1</li> </ul>
SD1305	Pipe Culverts - Headwall and Apron for Pipe Diameter 375 to 675	Amended	<ul style="list-style-type: none"> <li>Reinforcement details for headwall, footing, and apron for culverts with more than 2 pipes are added to the drawing</li> <li>The construction joint is relocated from vertically at the apron footing interface to horizontally at ground level top of the footing for the headwall</li> <li>The apron and headwall footing reinforcement for culverts maximum 2 pipes is amended</li> <li>The "Fit for purpose RPEQ certification disclaimer" is revised</li> </ul>
SD1307	Access Chamber - Cast Insitu Details for 1050 to 2100 Diameter Roadway Type Access Chamber	Amended	<ul style="list-style-type: none"> <li>Note 6 amended for Blinding concrete N20/20 to MRTS70</li> </ul>
SD1321	Concrete Gully - Precast Concrete Side Inlet Gully with Precast Shaft	Amended	<ul style="list-style-type: none"> <li>Note 6 amended for concrete channel N32/10 and blinding concrete N20/20 to MRTS70</li> </ul>
SD1322	Concrete Gully - Precast Concrete Side Inlet Gully with Cast In Situ Pit	Amended	<ul style="list-style-type: none"> <li>Note 6 amended for concrete channel N32/10 and blinding concrete N20/20 to MRTS70</li> </ul>
SD1328	Road Lighting/ITS - Lighting/Camera Pole Anchor Cage Fabrication Details	Amended	<ul style="list-style-type: none"> <li>Requirement for anchor cages fabrication to MRTS78 has been removed</li> <li>Note has been added for assembly testing of threaded bar and nut in accordance with MRTS78 with test loads as for Class 4.6 bolts</li> <li>Weld type for the helix to bars is amended</li> </ul>
SD1396	Traffic Signals/Road Lighting - Joint Use Traffic Signal and Road Lighting Pole and Footing Installation Details	Amended	<ul style="list-style-type: none"> <li>Timeframe added (adding "Immediately" at the start of the sentence Note 8) under "Sequence of Installation"</li> </ul>
SD1399	Road Lighting - Base Plate Mounted Pole Wiring Details	Amended	<ul style="list-style-type: none"> <li>The conduit finishing level has been changed to a line with mortar level</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1400	Road Lighting - Slip Base Pole Wiring Details	Amended	<ul style="list-style-type: none"> <li>Updating details to ensure drawing reflect current standard/practice</li> </ul>
SD1403	Traffic Signals - Mast Arm and Footing Installation Details	Amended	<ul style="list-style-type: none"> <li>Change of conduit size for practicability installation</li> </ul>
SD1404	Traffic Signals - Mast Arm Anchor Cage Fabrication Details	Amended	<ul style="list-style-type: none"> <li>Requirement for anchor cages fabrication to MRTS78 has been removed</li> <li>Note has been added for assembly testing of threaded bar and nut in accordance with MRTS78 with test loads as for Class 4.6 bolts</li> <li>Weld type for the helix to bars is amended</li> </ul>
SD1414	Traffic Signals - Mast Arm Traffic Signal Junction Box (Type A) Wiring Details	Amended	<ul style="list-style-type: none"> <li>The conduit finishing level has been changed to align with mortar level</li> </ul>
SD1415	Traffic Signals/Road Lighting - Cable Jointing Pit Type 60	Amended	<ul style="list-style-type: none"> <li>Minimum conduit entry to a pit specified as 50mm +/- 10mm to align with MRTS91 "Conduits and Pits"</li> <li>Pits are now required to have more than one label along the depth of the pit</li> <li>Removed requirement of a mounting strap with circular pits on Note 9</li> </ul>
SD1416	Traffic Signals/Road Lighting - Collar for 600 Diameter Circular Cable Jointing Pit	Administrative	<ul style="list-style-type: none"> <li>Reviewed for accuracy – no changes</li> </ul>
SD1417	Traffic Signals/Road Lighting - Cable Jointing Pit Circular 600 Diameter Cover (Drawing 1 of 2 and Drawing 2 of 2)	Administrative	<ul style="list-style-type: none"> <li>Previously both pages of SD1417 were published separately. Now they will be published as one file.</li> <li>50x20x2.5 RHS Steel Plain replaced by 50x20x2 RHS Steel Plain due to scarcity of 50x20x2.5</li> </ul>
SD1421	Traffic Signals - Traffic Signals Post and Footing Installation Details	Amended	<ul style="list-style-type: none"> <li>Removal of drainage holes within conduit</li> </ul>
SD1430	Road Lighting - Switchboard Pillar Mounted	Amended	<ul style="list-style-type: none"> <li>Updated details to ensure drawing reflect current standard/practice</li> </ul>
SD1431	Road Lighting - Base Plate Mounted Pole Wiring Details for Median Barriers	Amended	<ul style="list-style-type: none"> <li>Updated details to ensure drawing reflect current standard/practice</li> </ul>
SD1440	Traffic Signals/Road Lighting - Cable Jointing Pit Rectangular Concrete Surround	Amended	<ul style="list-style-type: none"> <li>Reviewed for accuracy – no changes</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1445	Concrete Gully - Roadway Type for Type 28 Channel	Amended	<ul style="list-style-type: none"> <li>Note 5 amended for concrete channel N32/10 to MRTS70</li> </ul>
SD1623	Road Lighting - Switchboard Typical Layout and Circuit Diagram MEN System	Amended	<ul style="list-style-type: none"> <li>Updated part list</li> </ul>
SD1627	Road Lighting - Switchboard Top Mounted	Amended	<ul style="list-style-type: none"> <li>Updated drawing to ensure consistency between different Standard Drawings</li> </ul>
SD1630	Traffic Signals/Road Lighting - Conduit Entry Details into Circular Pits	Amended	<ul style="list-style-type: none"> <li>Specified minimum conduit entry to a pit as 50mm +/- 10mm to align with MRTS91 "Conduits and Pits"</li> </ul>
SD1631	Traffic Signals/Road Lighting - Cable Joining Pit Types 1(J), 3, 4, 7 and 8	Amended	<ul style="list-style-type: none"> <li>Pits are now required to have more than one label along the depth of the pit</li> </ul>
SD1632	Traffic Signals/Road Lighting - Cable Jointing Pit Cover Type 1(J)	Amended	<ul style="list-style-type: none"> <li>50x20x2.5 RHS Steel Plain replaced by 50x20x2 RHS Steel Plain due to scarcity of 50x20x2.5</li> <li>40x6 Flat Bar stiffener for Type 1(J) pit cover changed to 32x6 Flat Bar</li> </ul>
SD1633	Traffic Signals/Road Lighting - Cable Jointing Pit Cover Types 3 and 4	Amended	<ul style="list-style-type: none"> <li>50x20x2.5 RHS Steel Plain replaced by 50x20x2 RHS Steel Plain due to scarcity of 50x20x2.5</li> </ul>
SD1634	Traffic Signals/Road Lighting - Cable Joining Pit Cover Types 7 and 8	Amended	<ul style="list-style-type: none"> <li>50x20x2.5 RHS Steel Plain replaced by 50x20x2 RHS Steel Plain due to scarcity of 50x20x2.5</li> </ul>
SD1673	Traffic Signals/Road Lighting - Labels	Amended	<ul style="list-style-type: none"> <li>Label of "2 Sources of Supply" for Traffic Signal / Road Lighting installations changed to a nominated "(X number) Sources of Supply"</li> </ul>
SD1676	Road Lighting - Switchboard Typical Pillar Layout	Amended	<ul style="list-style-type: none"> <li>Updated part list</li> </ul>
SD1677	Traffic Signals/Road Lighting - Joint Use Pole/Combination Mast Arm Electrical Wiring Schematic Rate-3	Amended	<ul style="list-style-type: none"> <li>Updating details to ensure drawing reflect current standard/practice</li> </ul>
SD1678	Traffic Signals/Road Lighting - Joint Use Pole Electrical Wiring Schematic Rate 2	Amended	<ul style="list-style-type: none"> <li>Updating details to ensure drawing reflect current standard/practice</li> </ul>
SD1683	Pathway Lighting - Anchor Cage Fabrication and Installation Details	Amended	<ul style="list-style-type: none"> <li>Requirement for anchor cages fabrication to MRTS78 has been removed</li> </ul>

Drawing	Title	Change Type	Description of change
			<ul style="list-style-type: none"> <li>Note has been added for assembly testing of threaded bar and nut in accordance with MRTS78 with test loads as for Class 4.6 bolts</li> <li>Weld type for the helix to bars is amended</li> <li>Installation Sequence Item 8 amended to specify "immediately" from mortar pad under base plate</li> </ul>
SD1689	ITS - Switchboard Typical Layout and Circuit Diagram Men System (Sheet 1 of 3 to Sheet 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Updated part list</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS - Parts List	Amended	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1711	Traffic Signals/Road Lighting - Circular Combination Mast Arm U Series - Information for Ordering Purposes	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1712	Traffic Signals/Road Lighting - Circular Mast Arm Fabrication Details	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1713	Traffic Signals/Road Lighting - Circular Mast Arm Type U1 - Post Without Luminaire Spigot - Assembly and Details	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1714	Traffic Signals/Road Lighting - Circular Combination Mast Arm Type U2 - Post with Luminaire Spigot - Assembly and Details	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1715	Traffic Signals/Road Lighting - Circular Mast Arm Outreach - 2.5m, 5.0m and 6.5m - Assembly and Details	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1716	Traffic Signals/Road Lighting - Circular Combination Mast Arm Luminaire Transition Piece - Assembly and Details	New	<ul style="list-style-type: none"> <li>Replaces existing TMR project fabrication drawings</li> <li>Aligns with AS 2979 (1998)</li> </ul>
SD1721	Traffic Signals - Base Mounted Traffic Signals Post - Assembly and Details	New	<ul style="list-style-type: none"> <li>Supersedes and replaces existing TMR fabrication drawing 316055</li> <li>Aligns with AS 2339 (1997)</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1771	Power Extension for ITS Devices - PSC MK3 Controller Additional Power Outputs via RCD Protected G.P.O.	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1772	Power Extension for ITS Devices - PSC MK1 and 2 Controller Additional Power Outputs via RCD Protected G.P.O.	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1773	Power Extension for ITS Devices - PSC MK3 Controller with Tophat Additional Power Outputs via RCD Protected G.P.O.	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1774	Power Extension for ITS Devices - PSC MK1 and 2 Controller with Tophat Additional Power Outputs via RCD Protected G.P.O.	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1775	Power Extension for ITS Devices - PSC MK1 and 2 Controller Additional Power Outputs Protected G.P.O. via RCD Optional Field Processor Location	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1776	Power Extension for ITS Devices - PSC MK3 Controller Additional Power Outputs via RCD Protected G.P.O. Optional Field Processor Location	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1777	Power Extension for ITS Devices - Tyco Eclipse Controller Additional G.P.O.'s via Existing RCD G.P.O. plus Communications Equipment	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>
SD1778	Power Extension for ITS Devices - Tyco Eclipse Controller with Tophat Additional G.P.O.'s via Existing RCD G.P.O. plus Communications Equipment	Amended	<ul style="list-style-type: none"> <li>Title changed from "ITS IPRT Network" to "Power Extension for ITS devices"</li> <li>Adjustments to the title block</li> <li>References corrected and TRUM Reference added</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1780	ITS IPRT Network - Typical Traffic Controller Telstra Modem and Associated Communications Cabling	Amended	<ul style="list-style-type: none"> <li>References corrected and TRUM references added</li> <li>Reviewed for accuracy and alignment with current practice</li> <li>Reference to "New Telstra UHS Model" changed to "Approved Telstra Modem"</li> </ul>
SD1781	ITS IPRT Network - Typical Traffic Controller with Tophat Telstra Modem and Associated Communications Cabling	Amended	<ul style="list-style-type: none"> <li>References corrected and TRUM references added</li> <li>Reviewed for accuracy and alignment with current practice</li> <li>Reference to "New Telstra UHS Model" changed to "Approved Telstra Modem"</li> </ul>
SD1782	ITS IPRT Network - Typical Traffic Controller with Telstra Modem and Associated Next G Antenna	Amended	<ul style="list-style-type: none"> <li>References corrected and TRUM references added</li> <li>Reviewed for accuracy and alignment with current practice</li> <li>Reference to "New Telstra UHS Model" changed to "Approved Telstra Modem"</li> </ul>
SD1783	ITS IPRT Network - Typical Traffic Controller with Tophat Telstra Modem and Associated Next G Antenna	Amended	<ul style="list-style-type: none"> <li>References corrected and TRUM references added</li> <li>Reviewed for accuracy and alignment with current practice</li> <li>Reference to "New Telstra UHS Model" changed to "Approved Telstra Modem"</li> </ul>
SD2021	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification B2 (Drawing 1 of 3 to Drawing 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Lifting Anchor detail of Section D on drawing 2 and Section K on drawing 3 is amended to delete a line drawn to represents epoxy coating</li> </ul>
SD2022	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification C1 and C2 (Drawing 1 of 3 to Drawing 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Lifting Anchor detail of Section D on drawing 2 and Section K on drawing 3 is amended to delete a line drawn to represents epoxy coating</li> </ul>
SD2023	550 Octagonal PSC Piles - Spliced Pile Details (Drawing 1 of 4 to Drawing 4 of 4)	New	<ul style="list-style-type: none"> <li>Provides standard details of the prestressed elements and fabricated steelwork for spliced PSC piles</li> </ul>
SD2200	Bridge Traffic Barriers - Post and Rail Traffic Barriers Regular Performance Level (Drawing 1 of 5 to Drawing 5 of 5)	Amended	<ul style="list-style-type: none"> <li>Width of cover plate for the terminal block shown in View P on drawing 5 is corrected to "110 x 670 x 6 thick plate"</li> </ul>

## November 2019

Drawing	Title	Change Type	Description of change
SD1260	RC Box Culverts and Slab Link Box Culverts – Culverts Height = 375 to 600	Amendment	<ul style="list-style-type: none"> <li>Hold down anchor details are now reinstated on this drawing, omitted in the last revision.</li> </ul>
SD1304	Pipe Culverts - Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400	Amendment	<ul style="list-style-type: none"> <li>Wingwall reinforcement simplified to bar reinforcement, no mesh in wingwalls.</li> <li>Minimum dimension for headwall face from pipe to wingwall is established to ensure cover to pipe and headwall reinforcement.</li> <li>Headwall wingwall interface is clearly detailed as a truncation of the headwall footing at start of wingwall footing.</li> <li>Weephole drainage replaced with strip filter.</li> </ul>
SD1444	Concrete Gully - Roadway Type Precast Inlet Units in Sag	Amendment	<ul style="list-style-type: none"> <li>Table A – Test Criteria reinstated on the drawing, unintentionally omitted in revision F.</li> </ul>
SD1561	Road Furniture - Motor Grid - General Arrangement	Amendment	<ul style="list-style-type: none"> <li>Minimum concrete strength for motor grids to MRTS70 <i>Concrete</i> shall be N32/30 for exposure classification up to B1 and S40/20 for higher classifications.</li> </ul>
SD1562	Road Furniture - Motor Grid - Cast Insitu Abutment		
SD1563	Road Furniture - Motor Grid - Cast Insitu Base Slab		
SD1564	Road Furniture - Motor Grid - Precast Base Slab		
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1779	ITS IPRT Network – ATS Alfa 16 Controller with Tophat Additional GPO's via New RCD GPO Plus Communications Equipment	Withdrawn	<ul style="list-style-type: none"> <li>The Alpha 16 Cabinets are no longer deployed by Transport and Main Roads</li> </ul>



<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD2232	Abutment Protection - Type 1 - Rock Spillthrough - Up to 1700 Clearance	Amendment	<ul style="list-style-type: none"> <li>The abutment protection drawings have been reviewed to ensure currency with departmental standards and alignment to AS 5100 where appropriate.</li> </ul>
SD2233	Abutment Protection - Type 1 - Rock Spillthrough - Greater than 1700 Clearance		
SD2234	Abutment Protection - Type 2 - Reinforced Concrete Over Spillthrough - Up to 1700 Clearance		
SD2235	Abutment Protection - Type 2 - Reinforced Concrete Over Spillthrough - Greater than 1700 Clearance		
SD2236	Abutment Protection - Type 4 - Rockwork Over Spillthrough - Up to 1700 Clearance		
SD2237	Abutment Protection - Type 4 - Rockwork Over Spillthrough - Greater than 1700 Clearance		
SD2238	Abutment Protection - Rock Masonry		
SD2241	Abutment Protection - Type 7 - Rock Filled Gabion Protection - Height Up to 6 metres		
SD2255	Bridge approaches - Relieving Slab 3 metre span	Amendment	<ul style="list-style-type: none"> <li>Note 2 reworded to include design exception for change in crossfall in pavement adjacent to relieving slabs.</li> </ul>
SD2256	Bridge approaches - Relieving Slab 6 metre span		

## July 2019

Drawing	Title	Change Type	Description of change
SD1174	R C Box Culverts – Installation of Precast Units and Construction of Headwalls Height = 375 to 600	Withdrawn	<ul style="list-style-type: none"> <li>SD1260 supersedes SD1174, therefore SD1174 is now withdrawn.</li> </ul>
SD1243	Precast Culvert Headwalls - Headwall Connections	Amendment	<ul style="list-style-type: none"> <li>Formerly titled Culvert Headwalls – Precast Headwall (Reinforced Concrete Pipe Culverts)</li> <li>For smaller pipe/box culvert size up to 450 mm, the requirement of the connection detail can be omitted dependent upon site conditions and risk of separation of headwall, as assessed by the project engineer. Factors such as low flow in small culverts and ease of maintenance in the event of headwall separation can be considered for risk assessment.</li> <li>For pipe/box culvert up to 1200 mm in size, a new connection detail is included using steel brackets bolted into the headwall units and the culverts. In this option, the precast cut-off wall is also included, resulting in no cast insitu concrete for the construction of these culverts.</li> <li>For larger culverts of size &gt; 1200 mm, the previous cast insitu headwall extension detail remains unchanged. The required reinforcement for the headwall extension are now provided.</li> <li>Galvanised steel anchor assemblies shall be used for exposure up to classification B2, and stainless steel anchor assemblies are to be used for higher exposure classifications C1 and C2.</li> </ul>
SD1250	R C Box Culverts and Slab Link Box Culverts – Culverts Height = 375 to 600	New	<ul style="list-style-type: none"> <li>SD1250 will supersede and replace existing Standard Drawings 1303, 1316, 1317, 1318 and 1320 which will be withdrawn.</li> <li>New drawing features: revised design of the base slabs, wingwalls and aprons to meet AS 5100 crack control requirements and higher exposure classifications, including a dowelled construction joint for apron to base slab. Fish passage requirements.</li> <li>New combined drawing is arranged in construction/installation sequence as follows: Drawing 1 for General Arrangements, set out and dimensions, and Notes. Drawing 2 for Typical Base Slab and Apron details relevant to large RC box culverts. Drawing 3 for Installation of large RC box culverts, including Holding Down Anchor fabrication details, and for Typical details of case insitu Headwalls and Wingwalls (end structures).</li> </ul>

Drawing	Title	Change Type	Description of change
SD1260	R C Box Culverts and Slab Link Box Culverts – Culverts Height > 600	New	<ul style="list-style-type: none"> <li>SD1260 will supersede and replace Standard Drawing 1174 which will be withdrawn.</li> <li>New drawing features: Revised design of the base slabs and aprons to meet AS 5100 crack control requirements and higher exposure classifications, including a dowelled construction joint for apron to base slab. A dowelled construction joint for apron to base slab is now specified. Fish passage requirements.</li> <li>New combined drawing is arranged in construction/installation sequence as follows: Drawing 1 for General Arrangements, set out and dimensions, typical details of cast insitu Headwalls (end structures) and Notes. Drawing 2 for Typical Base Slab and Apron details relevant to large RC box culverts, and Installation of small box culverts.</li> </ul>
SD1303	R C Box Culverts and Slab Link Box Culverts – Construction of Headwalls and Wingwalls Height > 600	Withdrawn	<ul style="list-style-type: none"> <li>SD1250 supersedes SD1303, therefore SD1303 is now withdrawn.</li> </ul>
SD1304	Pipe Culverts – Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400	Amendment	<ul style="list-style-type: none"> <li>Increased apron reinforcement detail to meet AS 3600 shrinkage and temperature crack control reinforcement requirements.</li> </ul>
SD1308	Precast Roof Slab for 1050 to 2100 Diameter Roadway Type Access Chamber	Amendment	<ul style="list-style-type: none"> <li>Steel C shaped reinforcing bar diameter changed from 20 to 16.</li> </ul>
SD1316	R C Box Culverts and Slab Link Box Culverts – Installation of Precast Units Height > 600	Withdrawn	<ul style="list-style-type: none"> <li>SD1250 supersedes SD1316, therefore SD1316 is now withdrawn.</li> </ul>
SD1317	R C Box Culverts and Slab Link Box Culverts – Construction of Bases with Nibs and Aprons (All sizes)	Withdrawn	<ul style="list-style-type: none"> <li>SD1250 supersedes SD1317, therefore SD1317 is now withdrawn.</li> </ul>
SD1318	R C Box Culverts and Slab Link Box Culverts – Construction of Bases with Recesses and Aprons (All sizes)	Withdrawn	<ul style="list-style-type: none"> <li>SD1250 supersedes SD1318, therefore SD1318 is now withdrawn.</li> </ul>
SD1320	R C Box Culverts and Slab Link Box Culverts – Crown Unit Holding Down Anchors	Withdrawn	<ul style="list-style-type: none"> <li>SD1250 supersedes SD1320, therefore SD1320 is now withdrawn.</li> </ul>

Drawing	Title	Change Type	Description of change
SD1356	Road Edge Guide Posts - Post and Installation Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled Road Edge Guide Posts – Timber and Tubular Steel Post and Installation Details</li> <li>Aligned to MRTS14 and MUTCD. Delineator requirement amended. Location of REGP in relation to the hinge point clarified. Notes updated.</li> </ul>
SD1365	Traffic Sign – Traffic Sign Support Breakaway Post Details – Two or more Supports	Amendment	<ul style="list-style-type: none"> <li>Details E has a new note added to clarify that the weld shall be discontinuous across the cut in the post.</li> <li>The welding notes are reworded to remove any ambiguity between the welding required for the various plate connections.</li> </ul>
SD1388	Road Lighting – Slip Base Pole Remedial Ramping Treatment	Withdrawn	<ul style="list-style-type: none"> <li>Withdrawn, so that it will no longer conflict with guidance provided in Austroads publications and the department's supplement.</li> </ul>
SD1443	Concrete Gully – Roadway Type Precast Inlet Units on Grade	Amendment	<ul style="list-style-type: none"> <li>Vertical load testing requirements have been amended to two.</li> <li>Channel half of the gullies adjacent to the grate are now drawn solid instead of hollow.</li> </ul>
SD1444	Concrete Gully – Roadway Type Precast Inlet Units in Sag	Amendment	<ul style="list-style-type: none"> <li>Vertical load testing requirements have been amended to two.</li> <li>Channel half of the gullies adjacent to the grate are now drawn solid instead of hollow.</li> </ul>
SD1459	Concrete Gully – Roadway Type Channel Lip in Line Anti-ponding	Amendment	<ul style="list-style-type: none"> <li>Vertical load testing requirements have been amended to two.</li> </ul>
SD1466	Concrete Barriers – Typical Delineator Bracket Details	Amendment	<ul style="list-style-type: none"> <li>Reviewed for currency. Note added and white delineators removed from example where they were not required.</li> </ul>
SD1467	Concrete Barriers - Cast-In Anchor Assembly for Thrie Beam Terminal Connector	Amendment	<ul style="list-style-type: none"> <li>Formerly titled Concrete Barrier/Bridge Parapet – Cast in Anchor Assembly for W and Thrie Beam Guardrail Connection.</li> <li>Revision ensures guardrail connections align with current engineering practice and standards.</li> <li>Superseded version will be available on the Standard Drawings Superseded page for a W beam cast-in anchor assembly be required for repair of an existing W beam guardrail concrete barrier terminal.</li> </ul>
SD1561	Motor Grid – General Arrangement	Amendment	<ul style="list-style-type: none"> <li>Alternative headstock ligature arrangement for ease of reinforcement cage fabrication.</li> <li>Optimised base slab thickness by introducing a 'nib' detail which reduces the precast slab weight.</li> <li>Amended stiffener arrangement between the steel rails of the grid segments which reduces fabrication time and cost of these steel grids.</li> <li>Minimum fencing requirements are now incorporated into the typical details and notes</li> </ul>
SD1562	Motor Grid – Cast Insitu Abutment		
SD1563	Motor Grid – Cast Insitu Base Slab		
SD1564	Motor Grid – Precast Base Slab		
SD1565	Motor Grid - Steelworks		

Drawing	Title	Change Type	Description of change
SD1603	Fencing – Koala Proof Fence and Gate	Amendment	<ul style="list-style-type: none"> <li>General Arrangement is updated for materials and presentation is improved for readability</li> <li>The method of bracing has been simplified to clamp on fittings at the base of post instead of into a footing.</li> <li>The fence at culvert arrangements and headwall connection details are updated.</li> <li>Notes amended.</li> </ul>
SD1623	Road lighting – Switchboard Typical Layout and Circuit Diagram MEN System	Amendment	<ul style="list-style-type: none"> <li>All drawings: Removal of busbar, this has been replaced with dedicated (6 mm<sup>2</sup>) wiring for each individual 20amp circuit. New connection blocks were also added for improved phase separation.</li> <li>SD1687 only: All holes on the gland plate are now to be threaded to allow easy installation of cable glands as required.</li> <li>SD1687 and SD1688 only: A glare shield has been included to prevent intrusive light from affecting the operation of the PE cell (light sensor).</li> </ul>
SD1676	Road lighting – Switchboard Typical Pillar Layout		
SD1686	Road Lighting – Switchboard Assembly Details		
SD1687	Road Lighting – Metered Switchboard Assembly Details – Single Phase		
SD1688	Road Lighting – Metered Switchboard Assembly Details – Three Phase		
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1901	ITS - Traffic Monitoring Equipment Cabinet Base Installation Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - Foundation Equipment Cabinet Base Installation Details</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1902	ITS - Traffic Monitoring Surveillance Post Typical Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - Surveillance Post Typical Details</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1903	ITS - Traffic Monitoring Surveillance Post Wiring Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - Surveillance Post Wiring Details</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1905	ITS - Traffic Monitoring Cabinet Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - Foundation Equipment Cabinet</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1906	ITS - WIM Piezo Sensor Installation Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - WIM Piezo Sensor Installation Details</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1908	ITS - WIM Sensor Configuration Piezo-Loop-Piezo	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - WIM Sensor Configuration Piezo-Loop-Piezo</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1909	ITS - WIM Sensor Configuration Piezo-Piezo-Loop-Piezo-Piezo	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - WIM Sensor Configuration Piezo-Piezo-Loop-Piezo-Piezo</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1910	ITS - WIM Sensor Configuration Piezo-Piezo	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - WIM Sensor Configuration Piezo-Piezo</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD1911	ITS - WIM Sensor Configuration Strain Gauge Sensor	Amendment	<ul style="list-style-type: none"> <li>Formerly titled TSDM - WIM Sensor Configuration Strain Gauge Sensor</li> <li>Updated to reflect utilisation change and compliance changes in the recently revised AS3000:2018 Wiring Rules.</li> </ul>
SD2021	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification B2	Amendment	<ul style="list-style-type: none"> <li>Updated to align to AS 5100.</li> <li>In addition to the current strand arrangement using 12.7 diameter strands, the need for standard strand arrangement using strands of 15.2 diameter is now added.</li> <li>Pile design criteria, general notes and the standard notes have been revised and updated.</li> </ul>
SD2022	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification C1 and C2	New	<ul style="list-style-type: none"> <li>Provides details with higher exposure classification C1 and C2. PSC piles for exposure classification C1 and C2 require a higher concrete strength and increased cover to reinforcement. These requirements influence the layout of strands and reinforcement.</li> </ul>

Drawing	Title	Change Type	Description of change
SD2046	Precast Units - Precast Kerbs for Outer Deck Units for Transversely Stressed Bridges with Regular Performance Traffic Barriers	New	<ul style="list-style-type: none"> <li>Provides a standardised design solution for precast kerbs for future Transport and Main Roads transversely stressed deck unit bridge projects. This is especially suitable for remote districts.</li> </ul>
SD2255	Bridge approaches – Relieving Slab 3 metre span	Amendment	<ul style="list-style-type: none"> <li>A note has been added to the starter bar detail, specifying that the starter bars shall be galvanised after bending.</li> </ul>
SD2256	Bridge approaches – Relieving Slab 6 metre span		

### **March 2019**

Drawing	Title	Change Type	Description of change
SD1304	Pipe Culvert – Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400 Drawing 1 of 2 and 2 of 2	Amendment	<ul style="list-style-type: none"> <li>Addressed issue of increased concrete thickness associated with the increased apron and wingwall requirements due to AS 3600 Concrete Structures requirements</li> <li>Weepholes in culvert wingwalls raised by 15mm and minimum spacing between bars increased to meet recent increase in cover requirements</li> </ul>
SD1424	Traffic Signals – Detector Loops Installation Details	Amendment	<ul style="list-style-type: none"> <li>Drawing changes have been applied to both asphalt and concrete pavements loops. Detail added for “Stress Relief Chamfer for Cable”</li> </ul>
SD1425	Traffic Signals – Detector Loops Placement Details	Amendment	<ul style="list-style-type: none"> <li>Minor format amendment</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1701	Traffic Signals – Detector Loops Counting/Right Turn Loops and Diode Connection Details	Amendment	<ul style="list-style-type: none"> <li>Referenced documents updated</li> </ul>

Drawing	Title	Change Type	Description of change
SD1702	Traffic Signals – Detector Loops Motorway Management Placement Details	Amendment	<ul style="list-style-type: none"> <li>Removed detail for “Typical Vehicle Detector Loop Placement in Concrete Pavement (4 Traffic Lanes)” and “Section 3”</li> <li>Additional notes 12 and 13 added</li> <li>Requirements to install pre-formed loops prior to laying the wearing surface</li> <li>Referenced documents updated</li> <li>Update to section title</li> </ul>
SD1905	TSDM – Foundation Equipment Cabinet Typical Details Sheet 1 of 10 to 10 of 10	Amendment	<ul style="list-style-type: none"> <li>Clarified equipment earth connections and to simplify equipment-to-earth connections</li> <li>Corrected errors and clarified requirements of each cable of Cable Schedules table</li> </ul>

## **November 2018**

Drawing	Title	Change Type	Description of change
SD1149	Installation of underground electrical and communications conduit	Amendment	<ul style="list-style-type: none"> <li>Note 7 updated with type 2.3 filling material, RDD to 95% from 90% to achieve better compaction</li> </ul>
SD1304	Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400	Amendment	<ul style="list-style-type: none"> <li>Regions have reported that some end structures constructed in accordance with TMR culvert SD are cracking, this has been revised and addressed in this amendment.</li> </ul>
SD1323	Luminaire Terminal Panel	Amendment	<ul style="list-style-type: none"> <li>Minor Pole drip shield details added for consistency with major pole terminal details.</li> </ul>
SD1327	Mains connections	Amendment	<ul style="list-style-type: none"> <li>Note 8 amended to suit the polymeric cable guard installation requirements</li> <li>To be consistent with the electricity entity requirements for Rate 2 and Rate 3 installations</li> </ul>
SD1369	Details of Sign Stiffening Extrusion	Amendment	<ul style="list-style-type: none"> <li>This revision is to reduce the possibility of fastening methods being used that unsatisfactory to TMR</li> </ul>
SD1396	Joint Use traffic signal and road lighting pole and footing installation details	Amendment	<ul style="list-style-type: none"> <li>JU pole footing reduced to 60mm diameter consistent with other pole footings</li> </ul>
SD1423	Traffic signal controller base installation details	Amendment	<ul style="list-style-type: none"> <li>References updated to align with the new SD1709 and SD1710</li> </ul>
SD1458	Single Slope Concrete Barrier – Precast Concrete Barrier Installation details	Amendment	<ul style="list-style-type: none"> <li>This revision removes outdated and conflicting information between the current standard drawings, MRTS72 and MUTCD</li> </ul>



<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1473	Single Slope Concrete Barrier – Precast Concrete Barrier Installation details		
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts details updated in accordance with relevant standard drawings</li> </ul>
SD1709	Uninterrupted power supply (UPS_ base installation details	New	<ul style="list-style-type: none"> <li>New standard drawing for MRTS282</li> </ul>
SD1710	Uninterrupted power supply (UPS) wiring schematic		
SD2045	Standard Details of Cast Insitu Kerbs for Transversely Stressed PSC Deck Units	Amendment	<ul style="list-style-type: none"> <li>Updated to align with current TMR standards resulting in benefits for all stakeholders</li> <li>Revised to align with AS 5100 for minimum cover to reinforcing</li> </ul>
SD2050	Precast Units – 10m PSC Deck Unit	Amendment	<ul style="list-style-type: none"> <li>This revision is to align these drawings with those for 15m, 19m, 25m Deck units, revised and updated in July 2018</li> </ul>
SD2051	Precast Units – 11m PSC Deck Unit		
SD2052	Precast Units – 12m PSC Deck Unit		
SD2053	Precast Units – 13m PSC Deck Unit		
SD4003	Type RG4000 FRP Precast plank for boat ramps	New	<ul style="list-style-type: none"> <li>This is not intended to replace Type RG4000, but is intended to be used in the below situations</li> <li>Expected loads are greater than the design load diagram for the Type RG4000</li> <li>The precast plank is required to be cut to length around floating walkway piles</li> </ul>

## **July 2018**

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1174	R C Box Culverts – Installation of Precast Units and Construction of Headwalls – height=375 to 600	Amendment	<ul style="list-style-type: none"> <li>This revision aligns with AS 5100 and addresses stakeholder comments about inadequate headwall depth</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1305	Pipe Culverts – Headwall and Apron for Pipe Diameter 375 to 675	Amendment	<ul style="list-style-type: none"> <li>• The height of the headwall on Section A has been amended</li> <li>• Mesh Reinforcement has been increased to satisfy reinforcement for unrestrained slabs, small apron area</li> <li>• Updates to unreinforced headwall and longer headwall that will require project specific design</li> <li>• Drawing updated to align with current standards</li> </ul>
SD1307	Access Chamber – Cast Insitu Details for 1050 to 2100 diameter Roadway Type	Amendment	<ul style="list-style-type: none"> <li>• Alignment with AS5100 (5017)</li> <li>• Structural designs are in accordance with AS36000</li> <li>• Maximum pit depths have been specified</li> <li>• Step Irons have been removed from Drawings to satisfy AS1657</li> <li>• The Notes have been updated in accordance with other TMR Standard Drawings</li> </ul>
SD1308	Access Chamber – Precast Roof Slab to 1050 to 2100 diameter Roadway Type		
SD1314	Traffic Signals/Road Lighting – Cable Jointing Pit Drainage Details	Amendment	<ul style="list-style-type: none"> <li>• Drawing updated with circular pit</li> <li>• References updated</li> </ul>
SD1323	Road Lighting – Luminaire Terminal Panel	Amendment	<ul style="list-style-type: none"> <li>• Minor pole terminal panel introduced</li> <li>• References updated</li> </ul>
SD1327	Road Lighting – Mains Connections	Amendment	<ul style="list-style-type: none"> <li>• Polymeric cable guard added</li> <li>• References updated</li> </ul>
SD1328	Road Lighting – Anchor Cage Fabrication Details	Amendment	<ul style="list-style-type: none"> <li>• Temporary nuts added</li> <li>• Helix pitch modified</li> </ul>
SD1329	Road Lighting – Typical Physical Arrangement	Amendment	<ul style="list-style-type: none"> <li>• Drawing updated with circular pits</li> </ul>
SD1363	Traffic Sign – Multiple Traffic Sign Support	Title change	<ul style="list-style-type: none"> <li>• Incorrect wording removed from note G7</li> <li>• The use of Wedge Installation is not to be used where signs have multiple posts</li> </ul>
SD1363	Traffic Sign – Multiple Traffic Sign Support (Drawing 1 of 2 and Drawing 2 of 2)	Withdrawn	<ul style="list-style-type: none"> <li>• SD1363 Drawing 1 of 2 and Drawing 2 of 2 have been combined into one document, SD1363</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1368	Typical Wedge Installation for 60.3 OD Posts for Temporary Single Post Signs Only Not Exceeding 1m <sup>2</sup>	Title Change	<ul style="list-style-type: none"> <li>Title amended from 'Traffic Sign – Single Traffic Sign Support' to emphasis the intended use of the wedge installation detailed</li> </ul>
SD1377	Traffic Signals/Road Lighting – Joint Use Traffic Signal and Road Lighting Pole	Amendment	<ul style="list-style-type: none"> <li>References updated</li> </ul>
SD1380	Road Lighting – Slip Base Pole and Footing Installation Details for no Crossfall	Amendment	<ul style="list-style-type: none"> <li>Mortar alternative added</li> <li>Sequence of installation modified accordingly</li> </ul>
SD1381	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls up to and Including 1:6	Amendment	<ul style="list-style-type: none"> <li>Mortar alternative added</li> <li>Sequence of installation modified accordingly</li> </ul>
SD1382	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater than 1:6 and Including 1:3		
SD1392	Road Lighting – Base Plate Mounted Pole and Footing Installation Details for Crossfalls up to and Including 1:2	Amendment	<ul style="list-style-type: none"> <li>Mortar alternative added</li> <li>Temporary nuts added</li> <li>Sequence of Installation modified accordingly</li> </ul>
SD1393	Road Lighting – base Plate Mounted Pole and Footing Installation Details for Crossfalls Greater than 1:2		
SD1395	Road Lighting – base Plate Mounted Pole and Footing in Concrete Median barrier Installation Details		
SD1396	Traffic Signal/Road Lighting – Joint use Traffic Signal and Road Lighting Pole and Footing Installation Details	Amendment	<ul style="list-style-type: none"> <li>Pole placement distance added</li> <li>Mortar alternative added</li> <li>Temporary nuts added</li> <li>Sequence of installation modified accordingly</li> </ul>
SD1403	Traffic Signals – Mast Arm and Footing Installation Details	Amendment	<ul style="list-style-type: none"> <li>Mortar alternatives added</li> <li>Temporary nuts added</li> </ul>

Drawing	Title	Change Type	Description of change
			<ul style="list-style-type: none"> <li>Sequence of installation modified accordingly</li> </ul>
SD1404	Traffic Signals – Mast Arm Anchor Cage Fabrication Details	Amendment	<ul style="list-style-type: none"> <li>Helix pitch modified to cater 100 dia. Conduit</li> <li>Temporary nuts added</li> </ul>
SD1415	Traffic Signals/Road Lighting – Cable Jointing Pit Circular 600 Diameter	Amendment	<ul style="list-style-type: none"> <li>Bedding material reference updated</li> </ul>
SD1427	Traffic Signals/Road Lighting – Mast Arm (U series) Installation Details	Amendment	<ul style="list-style-type: none"> <li>Lanterns and push buttons reference updated</li> </ul>
SD1428	Traffic Signals – Traffic Signal Post Base Mounted		
SD1429	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater than 1:6 up to and Including 1:3 Using Concrete Step Thread	Amendment	<ul style="list-style-type: none"> <li>Mortar alternative added</li> <li>Sequence of installation modified accordingly</li> </ul>
SD1430	Road Lighting – Switchboard Pillar Mounted	Amendment	<ul style="list-style-type: none"> <li>Earth conductor and electrode warning label added</li> </ul>
SD1442	Concrete Gullies – Roadway type at Concrete Barriers	Amendment	<ul style="list-style-type: none"> <li>Identifies the requirement to separate between road barrier and gully structure</li> <li>Drawing updated to align with current standards</li> </ul>
SD1452	Traffic Sign – Sight Board Installation Details	Amendment	<ul style="list-style-type: none"> <li>Updating dimension for ‘Clearance Height ‘H’’</li> <li>Consistent and correct use of terminology to clarify intent</li> <li>Reference to TC sign D4-1-1-Q03</li> <li>Minor amendments to notes</li> </ul>
SD1490	Steel Beam Guardrail – Installation and Setout Footing Details	Amendment	<ul style="list-style-type: none"> <li>Barrier Selection Criteria have been add to notes</li> <li>Option 6 is now defined as retrofit only</li> <li>Details and notes have been revised and updated to comply with current standards</li> </ul>
SD1491	Steel Beam Guardrail – Guardrail attachments to existing box culverts – Assembly and fabrication details	Amendment	<ul style="list-style-type: none"> <li>Steel plate grade specified and ‘fitness for purpose’ disclaimer added to clarify the intent of this Drawing</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1624	Road Lighting – Junction box Single Phase Wiring Details	Amendment	<ul style="list-style-type: none"> <li>• New dome junction box detail G added for bridge lighting installations</li> <li>• References updated accordingly</li> </ul>
SD1625	Junction Box Three Phase Wiring Details		
SD1626	Road Lighting – Junction Box Active, Neutral and Earth Bolting Arrangements	Amendment	<ul style="list-style-type: none"> <li>• Grub screws standardised in brass connector blocks</li> </ul>
SD1627	Road Lighting – Switchboard Top Mounted	Amendment	<ul style="list-style-type: none"> <li>• Earth conductor and electrode warning label added</li> </ul>
SD1673	Traffic Signals/Road Lighting – Labels	Amendment	<ul style="list-style-type: none"> <li>• Electrical Label added</li> </ul>
SD1679	ITS – Telecommunications Field Cabinet Base Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Earth conductor and electrode warning label added</li> </ul>
SD1680	Traffic Signals/Road Lighting – Extension to Light Pole and Mast Arm Anchor Cages	Amendment	<ul style="list-style-type: none"> <li>• Temporary nuts added</li> <li>• Helix pitch modified</li> </ul>
SD1682	Pathway Lighting – Typical Lighting Requirements for off-road Pathways	Amendment	<ul style="list-style-type: none"> <li>• Parts number added</li> <li>• Sequence of installation updated accordingly</li> </ul>
SD1683	Pathway Lighting – Anchor Cage Fabrication and Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Temporary nuts added</li> <li>• Helix pitch modified</li> </ul>
SD1684	Road Lighting/ITS – Base Plate Mounted Hinged Pole Footing Installation Details for Crossfalls up to and Including 1:2	Amendment	<ul style="list-style-type: none"> <li>• Helix pitch modified to cater 100 dia. Conduit</li> <li>• Temporary nuts added</li> <li>• Sequence of installation updated</li> </ul>
SD1685	Traffic Signals/Road Lighting/ITS – Precast Concrete Surround for Circular Pit	Amendment	<ul style="list-style-type: none"> <li>• References updated</li> </ul>
SD1686	Road Lighting – Switchboard Assembly Details (3 sheets)	Amendment	<ul style="list-style-type: none"> <li>• Labels details added</li> <li>• References updated</li> </ul>
SD1687	Road Lighting – Metered Switchboard Assembly Details – Single Phase	Amendment	<ul style="list-style-type: none"> <li>• PE cell location clarified</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1688	Road Lighting – Metered Switchboard Assembly Details – Three Phase		<ul style="list-style-type: none"> <li>• Labels details added</li> <li>• References updated</li> </ul>
SD1689	ITS – Switchboard Typical Layout and Circuit Diagram MEN System (3 sheets)	Amendment	<ul style="list-style-type: none"> <li>• Wiring Schematic simplified</li> <li>• MEN requirement clarified</li> <li>• Labels detail added</li> <li>• References updated</li> </ul>
SD1690	ITS – Switchboard Assembly Details – Pole/Top Mounted	Amendment	<ul style="list-style-type: none"> <li>• Labels detail added</li> <li>• References updated</li> </ul>
SD1699	Road Lighting/ITS/Traffic Signals – Parts List	Amendment	<ul style="list-style-type: none"> <li>• Part number/Item(s) details updated in accordance with the relevant standard drawings</li> </ul>
SD1707	Road Lighting – Base Plate Mounted Pole Mounted on Bridges Wiring Details	Amendment	<ul style="list-style-type: none"> <li>• Recess requirements added</li> <li>• Conduits and wiring details added</li> <li>• Labels details added</li> <li>• Part numbers added</li> <li>• References updated</li> </ul>
SD1708	Sensor Extension to Traffic Signal Post	New	<ul style="list-style-type: none"> <li>• Provides all general and fabrication details</li> <li>• Maximum weight and sail area of the device to be mounted on the extension are nominated</li> <li>• The additional load is insignificant and current standard drawings SD1421 and SD1428 can still be used</li> </ul>
SD1901	TSDM Foundation Equipment Cabinet Base Installation Details	New	<ul style="list-style-type: none"> <li>• Details the installation of a typical TSDM cabinet in field, for WIM, ANPT, vehicle classification systems and Bluetooth</li> </ul>
SD1902	TSDM Surveillance Post Typical Details		
SD1903	TSDM Surveillance Post Wiring Details		
SD1905	TSDM Foundation Equipment Cabinet Equipment and Fuse Schedules (10 sheets)	New	<ul style="list-style-type: none"> <li>• Details the physical arrangement and wirings of foundation equipment inside a typical TSDM cabinet</li> </ul>
SD1906	TSDM WIM Piezo Sensor Installation Details	New	<ul style="list-style-type: none"> <li>• Details the installation of piezo sensors of a typical WIM system</li> </ul>

Drawing	Title	Change Type	Description of change
SD1908	TSDM WIM Sensor Configuration Piezo-Loop-Piezo (2 sheets)	New	<ul style="list-style-type: none"> <li>Details sensor configuration options for typical WIM system</li> </ul>
SD1909	TSDM WIM Sensor Configuration Piezo-Piezo		
SD1910	TSDM WIM Sensor Configuration Strain Gauge Sensor		
SD1911	TSDM WIM Sensor Configuration Strain Gauge Sensor		
SD2042	Design Assumptions for Transversely Stressed Deck Units	Amendment	<ul style="list-style-type: none"> <li>All published Deck Unit Standard Drawings will be revised to align with this Design Assumptions Standard Drawing</li> </ul>
SD2044	19m PSC Deck Unit Design Assumptions	Withdrawn	<ul style="list-style-type: none"> <li>This revision aligns with SD2042 <i>Deck Unit Design Assumptions</i>, and to AS 5100 (2017), providing updated deck unit details to meet current standards for future projects</li> </ul>
SD2055	Precast Units – 15m PSC Deck Unit	Title Change	
SD2055 3D 15 & 30	Precast Units – 15m PSC Deck Unit	Withdrawn	<ul style="list-style-type: none"> <li>SD2055 supersedes SD2055 3D 15 &amp; 30, therefore SD2055 3D 15 &amp; 30 is now withdrawn.</li> </ul>
SD2059	Precast Units – 19m PSC Deck Unit	Title Change	<ul style="list-style-type: none"> <li>This revision aligns with SD2042 <i>Deck Unit Design Assumptions</i>, and to AS 5100 (2017), providing updated deck unit details to meet current standards for future projects</li> </ul>
SD2059 3D 15 & 30	Precast Units – 19m PSC Deck Unit	Withdrawn	<ul style="list-style-type: none"> <li>SD2059 supersedes SD2059 3D 15 &amp; 30, therefore SD2059 3D 15 &amp; 30 is now withdrawn.</li> </ul>
SD2065	Precast Units – 25m PSC Deck Unit	Title change	<ul style="list-style-type: none"> <li>This revision aligns with SD2042 <i>Deck Unit Design Assumptions</i>, and to AS 5100 (2017), providing updated deck unit details to meet current standards for future projects</li> </ul>
SD2065 3D 15 & 30	Precast Units – 25m PSC Deck Unit	Withdrawn	<ul style="list-style-type: none"> <li>SD2065 supersedes SD2065 3D 15 &amp; 30, therefore SD2065 3D 15 &amp; 30 is now withdrawn.</li> </ul>
SD2200	Bridge Traffic Barriers – Post and Rail Traffic Barriers Regular Performance Level	Amendment	<ul style="list-style-type: none"> <li>An error on the previous version of the drawing has been amended</li> <li>Rail Support Plate Type 2 detailed on drawing 3 should be M16, but was labelled as M24</li> </ul>

## March 2018

Drawing	Title	Change Type	Description of change
SD1043	Reinforcing Steel – Standard Bar Shapes Typical Details and Notes	Amendment	<ul style="list-style-type: none"> <li>Table under Drawing 1 has been amended.</li> <li>All references to 'Draft AS 5100' in drawing notes has been removed.</li> </ul>
SD1044	Reinforcing Steel – Lap lengths	Amendment	<ul style="list-style-type: none"> <li>All references to 'Draft AS 5100' in drawing notes has been removed.</li> </ul>
SD1316	RC Box Culverts and Slab Link Box Culverts – Installation of Precast Units Height > 600	Amendment	<ul style="list-style-type: none"> <li>Detail of connection dowel in Detail 1 has been reinstated.</li> </ul>
SD1327	Traffic Signals / Road Lighting – Mains Connections	Amendment	<ul style="list-style-type: none"> <li>Specifies polymeric cable guards on timber poles, rather than galvanised metal type.</li> </ul>
SD1369	Traffic Sign – Details of Sign Stiffening Extrusion	Amendment	<ul style="list-style-type: none"> <li>No change to the design of the stiffener extruded shape, although profiles are not presented at 1 to 1 scale for correctness.</li> <li>Notes have been updated to include references to MRTS14 <i>Road Furniture</i>, and AS/NZS 1886.</li> </ul>
SD1403	Traffic Signals – Mast Arm and Footing Installation Details	Amendment	<ul style="list-style-type: none"> <li>Includes details for mortar, refer to Notes 8 and 9.</li> </ul>
SD1452	Traffic Sign – Hazard Marker Installation Details	New	<ul style="list-style-type: none"> <li>New drawing designed to reduce risk of sign spearing, with modification to post connections.</li> <li>Sheet 1 – Rehabilitation of Existing, provides details to retrofit existing installation of non-compliant hazard markers with compliant hazard markers, stiffeners and heavy duty clamp assembly.</li> <li>Sheet 2 – For new installation, provides details to the new installation of compliant hazard markers, Type 1 stiffeners and heavy duty clamp assembly.</li> <li>Sheet 3 – Connection details, provides standard details for heavy duty clamp connection details and Splice plate assembly for use installation on hazard markers signs as detailed on Sheets 1 and 2.</li> </ul>
SD1505	Bridge Approaches – Relieving Slab 3 metre span	Withdrawn	<ul style="list-style-type: none"> <li>SD2255 supersedes SD1505, therefore SD1505 is now withdrawn.</li> </ul>
SD1506	Bridge Approaches – Relieving Slab 6 metre span	Withdrawn	<ul style="list-style-type: none"> <li>SD2256 supersedes SD1506, therefore SD1506 is now withdrawn.</li> </ul>



Drawing	Title	Change Type	Description of change
SD1573	ITS Gantries – Lane Control / Variable Speed Limit Signs – Without Maintenance Platform	Amendment	<ul style="list-style-type: none"> <li>Dimension text on the pre-camber diagram has been corrected, as well as the annotation of all the details has been reviewed to remove repetition while ensuring all the elements are labelled.</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts list updated for currency.</li> </ul>
SD2255	Bridge Approaches – Relieving Slab 3 metre span	New	<ul style="list-style-type: none"> <li>Revision of drawing and renumbered to align with current framework of the ‘2000 series’ for Drawings associated with Bridges</li> <li>Superseded SD1505.</li> </ul>
SD2256	Bridge Approaches – Relieving Slab 6 metre span	New	<ul style="list-style-type: none"> <li>Revision of drawing and renumbered to align with current framework of the ‘2000 series’ for Drawings associated with Bridges</li> <li>Supersedes SD1506.</li> </ul>

## October 2017

Drawing	Title	Change Type	Description of change
SD1328	Road lighting/ITS – Lighting/camera pole anchor cage fabrication details	Amendment	<ul style="list-style-type: none"> <li>Redesign the pitch of the helix of the anchor cages for lighting poles and mast arms.</li> <li>Helix has been redesigned to 150 mm pitch in order to accommodate a 100 dia conduit bend.</li> <li>Amended Mast arm helix – 10 diameter bar at 150 pitch</li> <li>Fabricated anchor cages – helix is to be welded at first turn and then alternate turns only.</li> <li>Drawings notes, tables and details have been reviewed and updated as required.</li> </ul>
SD1404	Traffic signals – Mast arm anchor cage fabrication details		
SD1680	Traffic signals/road lighting – Extension to light pole and mast arm anchor cages		
SD1363	Traffic sign – Multiple Traffic sign support – Standard Posts Drawing 1 of 2	Amendment	<ul style="list-style-type: none"> <li>Grade 350 steel plate in note S2 on both drawings is amended to Grade 250, as referred to in SD1365, being the original and correct grade specified by the designer, and as per department's <i>Design Guide for Roadside Signs</i>.</li> <li>The titles of drawings are renamed.</li> </ul>
SD1363	Traffic sign – Multiple Traffic sign support – Breakaway Posts Drawing 2 of 2		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1380	Road lighting – Slip base pole and footing installation details for no crossfall	Amendment	<ul style="list-style-type: none"> <li>Added 100 diameter void in mortar.</li> <li>Altered sequence note 7.</li> <li>Added MRTS97 to referenced documents.</li> </ul>
SD1381	Road lighting – Slip base pole and footing installation details for crossfalls up to and including 1:6	Amendment	<ul style="list-style-type: none"> <li>Added 100 diameter void mortar.</li> <li>Altered sequence note 7.</li> <li>Added MRTS97 to referenced documents.</li> </ul>
SD1382	Road lighting – Slip base pole and footing installation details for crossfalls greater than 1:6 up to including 1:3	Amendment	<ul style="list-style-type: none"> <li>Added 100 diameter void mortar.</li> <li>Altered sequence note 7.</li> <li>Added MRTS97 to referenced documents.</li> </ul>
SD1389	Road lighting – Slip base pole male/female connectors installation details	Amendment	<ul style="list-style-type: none"> <li>Added 100 diameter void mortar.</li> </ul>
SD1400	Road lighting – Slip base pole wiring details	Amendment	<ul style="list-style-type: none"> <li>Added 100 diameter void mortar.</li> </ul>
SD1411	Road lighting – Mast arm road lighting junction box (type b)	Amendment	<ul style="list-style-type: none"> <li>Updated corporate branding and associated departmental documents and references.</li> <li>Verified reference documents and titles.</li> <li>Minor drafting updates.</li> </ul>
SD1415	Traffic signals/road lighting – cable jointing pit type 60	Amendment	<ul style="list-style-type: none"> <li>Updated corporate branding and associated departmental documents and references.</li> </ul>
SD1424	Traffic signals – Detector loops installation details asphalt pavement	Amendment	<ul style="list-style-type: none"> <li>Added note on the conduit (item 102) from end of loop wires to pit and added note on this part number. All other notes reviewed and updated</li> <li>Updated corporate branding and associated departmental documents and references.</li> <li>Updated section A and added additional section B</li> <li>Altered location of pits in layouts. Quadrupole loop layout removed.</li> </ul>
SD1425	Traffic signals – Detector loops placement details	Amendment	<ul style="list-style-type: none"> <li>Title block updated to reflect current corporate branding</li> <li>Bike Loop altered</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1426	Traffic signal – Detector loops standard configuration	Amendment	<ul style="list-style-type: none"> <li>• Note 4 and Q factor introduced regarding inductance.</li> <li>• Joint points added.</li> <li>• Title headings for associated and reference documents updated.</li> <li>• Title block updated to reflect current corporate branding.</li> </ul>
SD1437	Traffic signals – Hinged base plate for traffic signal post fabrication details	Amendment	<ul style="list-style-type: none"> <li>• Title block amended, associated documents and reference documents updated.</li> </ul>
SD1438	Traffic signals – Hinged base plate for traffic signals post installation	Amendment	<ul style="list-style-type: none"> <li>• Title block amended, associated documents and reference documents updated.</li> <li>• Drafting updated.</li> </ul>
SD1639	Road lighting – Slip base pole retrofit 2 pin plug and socket installation	Amendment	<ul style="list-style-type: none"> <li>• Added 100 diameter void in mortar.</li> </ul>
SD1681	Traffic signals/road lighting – Riser for Type 60 circular cable jointing pit	Amendment	<ul style="list-style-type: none"> <li>• Update to note 1</li> <li>• Title change</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>• Parts list updated for currency</li> </ul>
SD1700	Traffic signals – Detector loops vehicle identification placement details	Withdrawn	<ul style="list-style-type: none"> <li>• Drawing exceeded 5 year review period. Review determined that this drawing was no longer required.</li> </ul>
SD1701	Traffic signals – Detector loops counting/right turn loops and diode connection details	Amendment	<ul style="list-style-type: none"> <li>• Title headings for associated and reference documents updated.</li> <li>• Title block updated to reflect current corporate branding.</li> <li>• Title of detail altered.</li> </ul>
SD1702	Traffic signals – Detector loops motorway management placement details	Amendment	<ul style="list-style-type: none"> <li>• General drafting update</li> <li>• Title headings for associated and reference documents updated.</li> <li>• Title block updated to reflect current corporate branding.</li> </ul>
SD1703	Traffic signals – Red light camera cable and loop details	Withdrawn	<ul style="list-style-type: none"> <li>• Drawing exceeded 5 year review period. Review determined that this drawing was no longer required. 'Typical lane setup Lane Red Connections' moved to SD1425.</li> </ul>
SD1704	Traffic signals – Red light camera wiring details	Withdrawn	<ul style="list-style-type: none"> <li>• Drawing exceeded 5 year review period. Review determined that this drawing was no longer required.</li> </ul>

## July 2017

Drawing	Title	Change Type	Description of change
SD1240	R C Slab Deck Culvert – General Arrangement	Amendment	<ul style="list-style-type: none"> <li>• SD1240 Drawings 1 and 2 only and SD1303 updates to EB bar shape detailed at the weepholes and wingwall slab in the mentioned drawings.               <ul style="list-style-type: none"> <li>○ EB reinforcement bars at the weepholes has been simplified to the D bar shape.</li> </ul> </li> </ul>
SD1303	R C Box Culverts and Slab Link Box Culverts – Construction of Headwalls and Wingwalls - Height > 600		
SD1365	Traffic Sign – Traffic Sign Support Breakaway Post Details (Two or more supports)	Amendment	<ul style="list-style-type: none"> <li>• The following points have been revised: Fuse plate welding, Welding consumable classification, Post Specification table, Small post size, Drain holes for galvanising.</li> </ul>
SD1368	Traffic Sign – Single Traffic Sign Support	Amendment	<ul style="list-style-type: none"> <li>• Drain holes sizes for galvanising to be consistent with SD1365 and industry standards.</li> </ul>
SD1410	Road Lighting – Luminaire Headframes Wiring Details 4 x 400W Luminaires	Amendment	<ul style="list-style-type: none"> <li>• Gel cap profiles updated. References updated.</li> </ul>
SD1415	Traffic Signals/Road Lighting – Cable Jointing Pit Circular 600 Diameter	Amendment	<ul style="list-style-type: none"> <li>• Increased pit depth from 1 metre to 1.2 metres.</li> </ul>
SD1421	Traffic Signals – Traffic Signals Post and Footing Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Traffic signal post drainage improved.</li> </ul>
SD1423	Traffic Signals – Traffic Signal Controller Base Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Clarified bolt fixings of cabinet to plinth. Added utility anchor to plinth. Base and profile of plinth amended to cater for additional communication conduit. Part numbers amended.</li> </ul>
SD1443	Concrete Gully – Roadway Type Precast Inlet Units on Grade	Amendment	<ul style="list-style-type: none"> <li>• Size of vertical load test area (200 x 150 mm) was corrected to 250 x 150 mm for consistency with SD1313. The 250 test plate width is to represent W80 wheel load width (400 x 250 mm) in accordance with AS5100.2.</li> </ul>
SD1444	Concrete Gully – Roadway Type Precast Inlet Units in SAG		
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram Men System	Amendment	<ul style="list-style-type: none"> <li>• Circuit diagram clarified.</li> </ul>
SD1626	Road Lighting – Junction Box Active, Neutral and Earth Bolting Arrangements	Amendment	<ul style="list-style-type: none"> <li>• Detail of Brass Connector Block added.</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1643	Vegetation Ground Works – Planting Container Stock Kerbed Medians and Separators	Amendment	<ul style="list-style-type: none"> <li>• Additional tree drawing with drainage for transport stations or similar situations.</li> <li>• Title renamed</li> </ul>
SD1644	Vegetation Ground Works – Hardstand Abutments to Vegetation Works	Amendment	<ul style="list-style-type: none"> <li>• Minor adjustments – wider turf in line with erosion control standards.</li> <li>• Title renamed</li> </ul>
SD1647	Vegetation Works - Matting	Amendment	<ul style="list-style-type: none"> <li>• Removed trenching.</li> </ul>
SD1650	Vegetation Works - Turfing	New	<ul style="list-style-type: none"> <li>• Separated content from SD1651 Seeding. Consolidated drawings for slopes &lt;1:4</li> </ul>
SD1651	Vegetation Works - Seeding	Amendment	<ul style="list-style-type: none"> <li>• Removed turf, include hydro-compost. Consolidated drawings for slopes &lt;1:4</li> <li>• Title renamed</li> </ul>
SD1653	Vegetation Works – Planting Container Stock < 25L Container	Amendment	<ul style="list-style-type: none"> <li>• Minor adjustments. Consolidated drawings for slopes &lt;1:4</li> <li>• Title renamed</li> </ul>
SD1654	Vegetation Works – Planting Container Stock > 25L Container	Amendment	<ul style="list-style-type: none"> <li>• Minor adjustments. Consolidated drawings for slopes &lt;1:4</li> </ul>
SD1646	Vegetation Ground Works – Roughening ripping, ploughing and cultivation	Withdrawn	<ul style="list-style-type: none"> <li>• Withdrawn due to MRTS16 update.</li> </ul>
SD1648	Vegetation Works – Plant mats		
SD1656	Vegetation Works – Guying advanced containers and ex-ground stock		
SD1659	Hardscape Works – Timber planting bed edging		
SD1660	Hardscape Works – Concrete planting bed edging		
SD1679	ITS – Telecommunications Field Cabinet Base Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Clarified bolt fixings of cabinet to plinth. Added utility anchors to plinth. Added lifting anchors</li> <li>• Title renamed</li> </ul>
SD1681	Traffic Signals/Road Lighting – Riser for 600 Diameter Circular Cable Jointing Pit	Amendment	<ul style="list-style-type: none"> <li>• Pit riser depth modified</li> </ul>

Drawing	Title	Change Type	Description of change
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts list updated for currency</li> </ul>
SD2050	Precast Unit – 10 m PSC Deck Unit	Amendment	<ul style="list-style-type: none"> <li>Revision aligns with Design Criteria for Bridges and Other Structures. This is to avoid possible concrete cracking at the ends due to transfer prestressing forces.</li> <li>End ligature arrangement is amended and the 'end length' is defined. Ligatures for the 'end length' (length of end section up to first transverse stressing hole) shall enclose all the strands.</li> <li>All drawings titles have been updated.</li> </ul>
SD2051	Precast Unit – 11 m PSC Deck Unit		
SD2052	Precast Unit – 12 m PSC Deck Unit		
SD2053	Precast Unit – 13 m PSC Deck Unit		
SD2045	Bridge Kerbs – Standard Details of Cast Insitu Kerbs for Transversely Stressed PSC Deck Units		
SD2200	Bridge Traffic Barriers – Post and Rail Traffic Barriers Regular Performance Level	<ul style="list-style-type: none"> <li>Drawings 1 and 2 updates to: rail connectors, post anchorages changed from bolts to threaded rods and R12 bar connectors are now removed.</li> </ul>	

## April 2017

Drawing	Title	Change Type	Description of change
SD1304	Pipe Culverts – Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400	Amendment	<ul style="list-style-type: none"> <li>Note 5 Reinforcing Steel has been amended</li> <li>Wall and apron mesh reinforcement has been increased SL81 from light mesh SL62 and SL82</li> </ul>
SD1311	Concrete Gully – Roadway Type Channel Lip In Line	Amendment	<ul style="list-style-type: none"> <li>Two piece units, and bolted connection between the lintel and base units incorporated in addition to one piece monolithic units</li> <li>Lateral load resistance of the lintel: Clause 11.1 of AS 5100.2 has been incorporated</li> <li>Shortening (shortened 30 mm each end) of the lintel fascia steel plate</li> <li>Changing Concrete class: Above ground use Class N concrete for all gully pits in lieu of Class S concrete. All 'in ground' pits use concrete Class S</li> <li>Case insitu pit design: Redesigned to AS 5100 code requirements</li> <li>Pit design life and minimum exposure classification: aligned to <i>Design Criteria for Bridges and Other Structures</i>. Accordingly, all pits less than or equal to 5.0 m deep are designed for 50 year design life with</li> </ul>
SD1312	Concrete Gully – Roadway Type Kerb In Line		
SD1313	Concrete Gully – Precast Lintel Details		
SD1443	Concrete Gully – Roadway Type Precast Inlet Units on Grade		
SD1444	Concrete Gully – Roadway Type Precast Inlet Units in SAG		

Drawing	Title	Change Type	Description of change
SD1459	Concrete Gully – Roadway Type Channel Lip In Line Anti-Ponding		minimum B1 exposure class to AS 3600. All deeper pits are designed to 100 year design life with class B2 to AS 5100
SD1358	Maintenance Marker Posts – Post and Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Delineator requirements amended</li> <li>• Dimensions of black and yellow markings amended</li> <li>• Additional detail added to where marker posts is installed beyond hinge point</li> <li>• Notes 1, 2 and 4 updated</li> <li>• Depth of post in ground reduced to 350 mm</li> </ul>
SD1363	Traffic Sign – Multiple Traffic Sign Support Standard and Breakaway Posts	Amendment	<ul style="list-style-type: none"> <li>• ‘Fuse plates’ label removed</li> </ul>
SD1365	Traffic Sign – Traffic Sign Support Breakaway Post Details (Two or more supports)	Amendment	<ul style="list-style-type: none"> <li>• Table of dimensions, Notes and details have been reviewed and updated</li> </ul>
SD1523	Precast Units – 13m PSC Deck Units (square)	Withdrawn	<ul style="list-style-type: none"> <li>• SD2053 supersedes SD1523, therefore SD1523 is now withdrawn</li> </ul>
SD1605	Noise Barriers – Structural Detail RHS and SHS Steel Posts Timber Planks	Withdrawn	<ul style="list-style-type: none"> <li>• Withdrawn. Available on superseded page for maintenance and repair purposes only</li> </ul>
SD1673	Traffic Signals/Road Lighting - Labels	Amendment	<ul style="list-style-type: none"> <li>• Incorporates ‘Cross with care’ labelling. Aligns with MUTCD Part 14, Section 6 (G9-Q10). In addition, dimension on ‘Pole identification’ labelling has been altered to facilitate addition of new detail</li> </ul>
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram Men System	Amended	<ul style="list-style-type: none"> <li>• SD1623 – revised to align with MRTS226 and MRTS228 suites (April 2017) amendments and new switchboard drawings</li> </ul>
SD1686	Road Lighting – Switchboard Assembly Details	New	<ul style="list-style-type: none"> <li>• SD1686 – New – specifies dimensions and electrical components required for unmetered road lighting switchboards</li> </ul>
SD1687	Road Lighting – Metered Switchboard Assembly details Single Phase		<ul style="list-style-type: none"> <li>• SD1687 – New – specifies dimensions and electrical components required for single phase metered electrical switchboards used for road lighting applications</li> </ul>
SD1688	Road Lighting – Metered Switchboard Assembly Details Three Phase		<ul style="list-style-type: none"> <li>• SD1688 – New – specifies dimensions and electrical components required for three phase metered electrical switchboards used for road lighting applications</li> </ul>
SD1689	ITS – Switchboard Typical Layout and Circuit Diagram Men System	New	<ul style="list-style-type: none"> <li>• New drawings introduced due to the revision of MRTS226 suite (April 2017)</li> </ul>

Drawing	Title	Change Type	Description of change	
SD1690	ITS – Switchboard Assembly details Pole/Top Mounted		<ul style="list-style-type: none"> <li>SD1689 – New – specifies physical dimensions and electrical requirements for metered cabinets</li> <li>SD1690 – New - specifies physical dimensions and electrical requirements for pole/post mounted cabinets</li> </ul>	
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts list updated for currency, and reflected in one file</li> </ul>	
SD2042	Precast Units – Design Assumptions for Transversely Stressed Standard Deck units	Amendment	<ul style="list-style-type: none"> <li>Amendments and inclusions of/to: <ul style="list-style-type: none"> <li>Simplifying the reinforcement: simplified kerb and parapet starter bars, easier to fabricate and install at the casting yards</li> <li>Typical strand layout</li> <li>Super Workable Concrete</li> <li>Bridge Barriers</li> <li>Skewed Units</li> <li>Product names – refer to <i>Product Index for Bridges and Other Structures</i></li> </ul> </li> <li>SD2042 – Design assumptions have been revised</li> <li>SD2045 – New standard detail of cast insitu kerbs to use with transversely stressed deck units</li> <li>SD2050 and SD2051 – New drawings developed for 10m and 11m span deck units</li> <li>SD2053 superseded SD1523</li> <li>3D pdf drawings associated with SD2052 are withdrawn</li> </ul>	
SD2045	Bridge Kerbs – Standard Details of Cast Insitu Kerbs for Transversely Stressed PSC Deck Units	New		
SD2050	Precast Units – 10m PSC Deck Units	New		
SD2051	Precast Units – 11m PSC Deck Units	New		
SD2052	Precast Units – 12m PSC Deck Units	Amendment		
SD2053	Precast Units – 13m PSC Deck Units	Amendment		
SD4024	Boat Ramp – Information Signs – Materials, Fabrication, and General Arrangement	New		<ul style="list-style-type: none"> <li>New Standard Drawing specific to boat ramp information signs</li> </ul>

## January 2017

Drawing	Title	Change Type	Description of change
SD1511	Bridge Barriers – Bridge Safety Rail	Withdrawn	<ul style="list-style-type: none"> <li>SD2203 supersedes SD1511, therefore SD1511 is now withdrawn</li> </ul>



Drawing	Title	Change Type	Description of change
SD2200	Bridge Traffic Barriers – Post and Rail Traffic Barriers Regular Performance Level (Drawing 1 of 5 to 5 of 5)	New	<ul style="list-style-type: none"> <li>New Standard Drawing provides standard details for the fabrication and installation of Regular Performance Level bridge rail and post traffic barriers for road bridges.</li> <li>Supersedes, now withdrawn, Standard Drawing 2510</li> </ul>
SD2203	Bridge Traffic Barriers – Bridge Safety Rail for Pedestrian Only Path	New	<ul style="list-style-type: none"> <li>New Standard Drawing provides standard details for the fabrication and installation of bridge safety rail on bridge traffic barriers for road bridges with pedestrian only paths.</li> <li>Supersedes, now withdrawn, Standard Drawing 1511</li> </ul>
SD2510	Bridge Barriers – Regular Performance Level Bridge Traffic barrier – Type RR	Withdrawn	<ul style="list-style-type: none"> <li>SD2200 supersedes SD2510, therefore SD2510 is now withdrawn</li> </ul>

### ***Exception November 2016***

Drawing	Title	Change Type	Description of change
SD1317	R C Box Culverts and Slab Link Box Culverts - Construction of Bases with Nibs and Aprons (All Heights)	Amendment	<ul style="list-style-type: none"> <li>Administrative change only. 'Slab' corrected to 'Span' in table title Base Slab Details</li> </ul>
SD1318	R C Box Culverts and Slab Link Box Culverts - Construction of Bases with Recesses and Aprons (All Heights)		
SD1624	Road Lighting – Junction Box Single Phase Wiring Details	Amendment	Updated to reflect changes in TRUM Volume 4 Part 4: Rate-3 Road Lighting Junction Box Assembly: <ul style="list-style-type: none"> <li>Improved installation practices</li> <li>Minor changes to Junction Box Kit components</li> </ul>
SD1625	Road Lighting – Junction Box Three Phase Wiring Details		
SD1626	Road Lighting – Junction Box Active, Neutral and Earth Bolting Arrangements		
SD1707	Road Lighting – Base Plate Mounted Pole Mounted on Bridges Wiring Details		
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amendment	<ul style="list-style-type: none"> <li>Parts list updated for currency, and reflected in one file</li> </ul>

## October 2016

Drawing	Title	Change Type	Description of change
SD1478	Steel Beam Guardrail - W Beam Anchor Bracket Delineation Unit Post on Base Plate Abraham Blockout	Amendment	<ul style="list-style-type: none"> <li>Updated to align with MRTS14 Suite (Clause 10.2.4 MRTS) October 16 update regarding delineators and retroreflectors</li> <li>Consistency and compliance with MRTS14, MUTCD and Australian Standards</li> </ul>
SD1684	Base Plate Mounted Hinged Pole Footing Installation Details for Crossfalls up to and including 1:2	New	<ul style="list-style-type: none"> <li>New Standard Drawing provides footing installation details for base plate mounted hinged poles and base plate mounted hinged camera poles.</li> </ul>
SD1685	Precast Concrete Surround for Circular Pit	New	<ul style="list-style-type: none"> <li>New Standard Drawing Precast Concrete Surround for Circular Pit</li> </ul>
SD1366	Traffic Sign – Traffic sign support detail truss type breakaway		<ul style="list-style-type: none"> <li>Withdrawn due to MRTS14 <i>Road Furniture</i> Suite (October 16) update:               <ul style="list-style-type: none"> <li>These Drawings do not comply with current TMR guidelines, policies and practices, required for new construction</li> <li>All referencing removed from MRTS14 Suite</li> </ul> </li> </ul>
SD1367	Traffic Sign – Traffic sign support detail truss type breakaway bracing details		
SD1460	Type F concrete barrier – Extruded median barrier – Barrier, reinforcing and expansion joint details		
SD1461	Type F concrete barrier – Extruded median barrier – Details of road lighting pole cover plates		
SD1462	Type F concrete barrier – Transition between median barrier and W beam guardrail		
SD1463	Type F concrete barrier – Reinforcing details for median barrier terminal with lighting		
SD1464	Type F concrete barrier – Reinforcing details for median barrier terminal without lighting		
SD1465	Type F concrete barrier – Fabrication details for W beam guardrail connection brackets		
SD1493	Steel beam guardrail – W beam connections for concrete end posts		
SD1494	Steel beam guardrail – Thrie beam connections for concrete end posts		

Drawing	Title	Change Type	Description of change
SD4000	Precast Planks for Boat Ramp - Types RG4000 and RG3500	Amendment	<ul style="list-style-type: none"> <li>Remove brand specific references</li> <li>Simplify reinforcement layout and improve dimensional setout</li> <li>Show dimensions of bar shapes to simplify steel supply (without reference to the bar shape standard drawings).</li> </ul>
SD4001	Precast Planks for Boat Ramp - Types OS4000 and OS3500		
SD4002	Precast Planks for Boat Ramp - Types T4000 and T3500		

## July 2016

Drawing	Title	Change Type	Description of change
SD1241	RC Slab Deck Culvert – Culvert Extension	Amendment	<ul style="list-style-type: none"> <li>Product references are removed</li> <li>Reference to MRTS86 updated</li> </ul>
SD1321	Concrete Gully – Precast Concrete Side Inlet Gully with Precast Shaft	Amendment	<ul style="list-style-type: none"> <li>Gully pit details were updated to current AS 5100 loading</li> <li>Drawings updated to align with Design Criteria to Bridges and Other Structure – example minimum exposure classification and design life</li> <li>Drawing notes update to align with current TMR standards for materials and workmanship requirements</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1322	Concrete Gully – Precast Concrete Side Inlet Gully with Cast Insitu Pit		
SD1445	Concrete Gully – Roadway Type for Type 28 Channel		
SD1470	Single Slope Concrete Barrier – Concrete Terminal for Median Barrier with Thrie Beam Guardrail Connection – General Arrangement and Details and Reinforcement Details	Amendment	<ul style="list-style-type: none"> <li>Administrative change – inclusion of Steel Schedules no lighting and with lighting to 4/16 version</li> </ul>
SD1486	Single Slope Concrete Barrier – Concrete Terminal for Barrier with Thrie Beam Guardrail Connection – General Arrangement and Reinforcement Details	Amendment	<ul style="list-style-type: none"> <li>Steel Schedules A-E now combined with Drawings</li> <li>Drawing note corrected: value of cover to reinforcement is amended to 45 mm – AS 3600 requirements for 50 year design life</li> <li>Additional note included 'Dowels are required for all terminal profiles' – to improve clarity</li> </ul>
SD1491	Steel Beam guardrail – Guardrail Attachments to existing box culverts – Assembly and Fabrication Details	Amendment	<ul style="list-style-type: none"> <li>Amendment addresses industry's concerns by improving the galvanising process for barrier posts</li> </ul>
SD1736	ITS – ITS Symbols	New	<ul style="list-style-type: none"> <li>New drawing to maintain consistency and uniformity in all ITS design projects across TMR and Industry</li> </ul>

Drawing	Title	Change Type	Description of change
SD1063	Standard Date Plate – General Arrangement	Withdrawn	<ul style="list-style-type: none"> <li>Withdrawn due to SD2005 amendment</li> </ul>
SD2005	Standard Bridge Date Plate – General Details	Amendment	<ul style="list-style-type: none"> <li>Revision of drawing and renumbered to align with current framework of the '2000 series' Drawings associated with Bridges</li> <li>Includes reference to revised MRTS77 <i>Bridge Deck</i></li> <li>This release replaces SD1063</li> </ul>
SD4020	Boat Ramp – Boat Ramp Construction – Precast Plank Installation and Anchor Beam – Types 1 and 2	Amendment	<ul style="list-style-type: none"> <li>Amended to reflect boat ramp toe details using T4000 end plank (refer SD4002)</li> </ul>

### Exception May 2016

Drawing	Title	Change Type	Description of change
SD1624	Road Lighting – Junction box single phase wiring details	Amendment	<ul style="list-style-type: none"> <li>Updated to reflect amendments in TRUM Volume 4, Part 4 changes: <ul style="list-style-type: none"> <li>New Junction box kit components</li> <li>Improved installation practices</li> </ul> </li> </ul>
SD1625	Road Lighting – Junction box three phase wiring details		
SD1626	Road Lighting – Junction box active, neutral and earth bolting arrangements		
SD1500	Bridges – Octagonal PSC pile	Withdrawn	<ul style="list-style-type: none"> <li>Withdrawn, as replaced by new Standard Drawing 2021</li> </ul>
SD2021	550 Octagonal PSC Piles – Earthquake Classification BEDC-1, Exposure Classification B2 – Drawing 1 of 2 and 2 of 2	New	<ul style="list-style-type: none"> <li>Replaces withdrawn SD1500</li> <li>Aligns with revisions of <i>Design Criteria for Bridges and Other Structures</i>, MRTS65, and MRTS73 for durability, materials and lifting provisions</li> </ul>

### April 2016

Drawing	Title	Change Type	Description of change
SD1043	Reinforcing Steel - Standard Bar Shapes Typical Details and Notes - Drawing 1 of 4 to 4 of 4	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'Reinforcing steel – Standard bar shapes', available across 3 separate drawings, now combined as one entry</li> <li>Standard hook, cog and bend details have been relocated to SD1043 from SD1044</li> <li>Detailing and labelling of hook and cog lengths have been amended</li> <li>Seismic hook and bend details for fitments (IE. Stumps, ligatures and ties) have been added to comply with requirements in Clause 13.1.2.8 of draft AS 5100.5</li> </ul>

Drawing	Title	Change Type	Description of change
			<ul style="list-style-type: none"> <li>Details for fitments with diameter 28 mm and greater have been deleted because these larger diameters are not used as fitments. Bar shapes P and SD are used as fitments and therefore the welding details for up to 24 mm diameter are specified</li> <li>Welding details for bar shape SD amended to illustrate the required 'no welding zone' from the bends, as per Clause 13.2.1 of the draft AS 5100.5</li> </ul>
SD1044	Reinforcing steel - Lap Lengths	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'Reinforcing steel – Standard hook, lap and bend details and general steel reinforcement information'</li> <li>Standard hook, cog and bend details have been deleted from SD1044 and relocated to SD1043</li> <li>Minimum lapped splice lengths have been revised to comply with the requirements of draft AS 5100.5</li> <li>Lap lengths for exposure class B1, B2 &amp; C in accordance with minimum concrete classes are tabulated for ease of reference</li> <li>Typical lapped splice details for helical reinforcement in columns have been added</li> <li>Requirements for steel ties for fixing lapped splices have been revised to ensure the lapped splices are secured during construction</li> <li>No welding zone for welded lapped splices has been added to comply with Clause 13.2.1 of the draft AS 5100.5</li> </ul>
SD1174	R C Box Culverts – Installation of Precast Units and Construction of Headwalls Height = 375 - 600	Amendment	<ul style="list-style-type: none"> <li>Drawing scope is redefined to Installation of Precast Units and Construction of Headwalls Height = 375 to 600</li> <li>Smallest crown unit height is changed from 150 to 375 mm. Current drawing shows 150 to 600 mm</li> <li>All precast unit installation details have been incorporated to minimise the reference drawings</li> <li>The Table of dimensions is amended to better demonstrate the relationship between dimensions H, X and Q</li> <li>Designation of reinforcement required for skewed headwalls has been amended</li> </ul>
SD1303	R C Box Culverts & Slab Link Box Culverts - Construction of Headwalls and Wingwalls Height > 600	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'R C Box Culverts &amp; Slab Link Box Culverts - Construction of Reinforced concrete Wingwalls and Headwalls'</li> <li>Technical content has been reviewed and revised. Duplicated details have been removed.</li> <li>Only reinforced concrete wingwalls are considered durable over the life of the structure and have been incorporated. Mass concrete wingwalls are removed.</li> </ul>
SD1316	R C Box Culverts & Slab Link Box Culverts - Installation of Precast Units Height > 600	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'R C Box Culverts &amp; Slab Link Box Culverts – General Arrangement and Installation of Precast Units'</li> <li>All unreinforced wingwall details have been replaced with details of reinforced wingwalls as per SD1303</li> <li>Duplicated details have been combined and the presentation of the original content has been reordered</li> </ul>
SD1317	R C Box Culverts & Slab Link Box Culverts - Construction of Bases with Nibs and Aprons (All sizes)	Amendment	<ul style="list-style-type: none"> <li>SD1317 – alternative to galvanised nib bars, use of non-galvanised reinforcing nib bars if concrete surface is coated with wet-to-dry epoxy is added.</li> <li>SD1317 and SD1318: <ul style="list-style-type: none"> <li>Only reinforced concrete apron (formerly Type 3) with cut off wall being an integral part of the apron are incorporated to improve the asset flood resilience over the life of the structure. Types 1 – grouted rock pitching and Type 2 – rock fill mattress are now removed</li> </ul> </li> </ul>
SD1318	R C Box Culverts & Slab Link Box Culverts - Construction of Bases with Recesses and Aprons (All sizes)		

Drawing	Title	Change Type	Description of change
			<ul style="list-style-type: none"> <li>The engineering review of apron and cut off wall has found that SL81 is needed to meet AS 5100 requirements for shrinkage</li> <li>Mass concrete wingwalls have been replaced with details of reinforced wingwalls</li> <li>Duplicated details have been combined and reordered</li> </ul>
SD1319	R C Box Culverts & Slab Link Box Culverts - Construction of Unreinforced Wingwalls and RC Headwalls H = 750 - 2400	Withdrawn	<ul style="list-style-type: none"> <li>Withdrawn due to SD1303 amendment</li> </ul>
SD1470	Single Slope Concrete Barrier – Concrete Terminal for Median Barrier with Thrie Beam Guardrail connection – General Arrangement and Details Drawing 1 of 2 to Drawing 2 of 2	Amendment	<ul style="list-style-type: none"> <li>SD1470 Formerly titled 'Single slope concrete barrier – Transition between median barrier and thrie beam guardrail'</li> <li>SD1471 and SD1472 reinforcement content has been added to SD1470, therefore SD1471 and SD1472 are withdrawn</li> <li>Major amendment to SD1470 regarding: <ul style="list-style-type: none"> <li>Terminal height, lighting provisions, precast median terminal details are deleted, thrie beam transition arrangement has been revised, terminal reinforcement details.</li> </ul> </li> </ul>
SD1471	Single Slope Concrete Barrier - Reinforcing Details for Median Barrier Terminal with Lighting	Withdrawn	
SD1472	Single Slope Concrete Barrier - Reinforcing Details for Median Barrier Terminal without Lighting	Withdrawn	
SD1415	Traffic Signals/Road Lighting - Cable Joining Pit Circular 600 Diameter	Amendment	<ul style="list-style-type: none"> <li>Bell mouths removed for easy cable installation/maintenance</li> <li>Water drainage system improved for earth pit</li> <li>Minor drafting updates</li> </ul>
SD1423	Traffic Signals - Traffic Signal Controller Base Installation Details		
SD1627	Road Lighting - Switchboard Top Mounted		
SD1630	Traffic Signals/Road Lighting - Conduit Entry Details Into Circular Pits		
SD1679	Telecommunications field cabinet base installation details		
SD4002	Precast Planks For Boat Ramp - Types T4000 and T3500	New	<ul style="list-style-type: none"> <li>New Standard Drawing for Precast plank for Boat Ramps</li> </ul>

## January 2016

Drawing	Title	Change Type	Description of change
SD1241	RC Slab Deck Culvert – Culvert Extension	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency.</li> </ul>

Drawing	Title	Change Type	Description of change
			<ul style="list-style-type: none"> <li>'Nitobond' is now corrected</li> </ul>
SD1309	Concrete Gully – Field Inlet Type 1	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency. Drawing notes updated for materials, durability and workmanship with reference to TMR standards and Australian standards</li> <li>Gullies identified as field inlet gullies and not to be used for road traffic. Therefore design live loads are limited to construction and maintenance vehicles up to 10 t gross weight</li> <li>Due to slow moving vehicles, Dynamic Allowance of zero is considered in the design</li> <li>Only the top part of the gully (the apron and partition wall between chambers) needs reinforcement for structural strength due to its geometry and direct exposure to wheel loads</li> <li>Current standard drawing requires reinforcement for pit walls deeper than 2.2m. However, structural analysis shows that the walls can be unreinforced up to 3m deep</li> </ul>
SD1310	Concrete Gully – Field Inlet Type 2		
SD1304	Pipe Culverts – Wingwalls, Headwalls and Aprons for Pipe Diameter 750 to 2400 – Drawing 1 of 2	Amendment	<ul style="list-style-type: none"> <li>Layout dimension has been included</li> <li>WH&amp;S standards are improved by the specification of lifting system locations that will not encourage castings to separate as a result of lifting (some castings are 2 piece, others are monolithic)</li> <li>Durability of installed inlets in service will be improved due to monolithic castings or improved performance 2 piece castings</li> </ul>
SD1443	Concrete Gully – Roadway Type Precast Inlet Units on Grade		
SD1444	Concrete Gully – Roadway Type Precast Inlet Units in Sag		
SD1486	Single Slope Concrete Barrier – Concrete Terminal with Thrie Beam Guardrail Connection – General Arrangement (Drawing 1 of 2) and Reinforcement Details (Drawing 2 of 2)	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'Single Slope Concrete Barrier – Concrete Terminal with Thrie Beam Guardrail Connection General Details</li> <li>Former SD1487 has been reviewed and is now included as Drawing 2 of SD1486</li> <li>Major amendments <ul style="list-style-type: none"> <li>Terminal height transition is revised to 1 on 10 slope (reinforcement details also amended)</li> <li>Barrier ground anchor arrangement and embedment details reviewed and drawn clearly – consistent with SD1468 and SD1473</li> <li>Anchor spacing dimensions for the precast barrier terminal are specified to avoid anchor conflict with the angle bar connector frame</li> <li>Terminals for extruded and precast are now drawn separately for ease of reference</li> </ul> </li> </ul>
SD1487	Single Slope Concrete Barrier – Concrete Terminal with Thrie Beam Guardrail Connection Reinforcement Details	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by amended SD1486 and therefore withdrawn</li> </ul>
SD1491	Steel Beam Guardrail – Guardrail Attachments to existing box culverts – Assembly and Fabrication Details	Amendment	<ul style="list-style-type: none"> <li>Formerly titled 'Steel Beam Guardrail – Standard Guardrail Attachments to culverts, assembly and fabrication Details'</li> <li>Minor amendments – recognise 'existing box' culverts, steel work and welding details are reviewed, threaded bar replaces bolts for ease of procurement and the notes have been updated for consistency of TMR standards</li> </ul>

Drawing	Title	Change Type	Description of change
SD1636	Road Lighting - Symbols	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> <li>Solar panel and LED luminaire added to the list</li> </ul>

## October 2015

Drawing	Title	Change Type	Description of change
SD1131	RC Slab Deck Culvert – 2500 Span – Construction of Foundations, Aprons, Walls and Wings	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by new SD1240 and therefore withdrawn</li> </ul>
SD1132	RC Slab Deck Culvert – 2500 Span – Construction of Reinforced Concrete Deck and Kerbs		
SD1148	RC Slab Deck Culvert – 2500 Span – Steel Schedule for Reinforced Concrete Deck, Foundations, Aprons, Walls and Wings		
SD1179	RC Slab Deck Culvert – 2500 Span – Construction of Base, Aprons, Walls and Wings		
SD1284	RC Slab Deck Culvert – 2500 Span – Steel Schedule for Reinforced Concrete Deck, Base, Aprons, Walls and Wings		
SD1240	RC Slab Deck Culvert – General Arrangement - Drawings 1 to 4	New	<ul style="list-style-type: none"> <li>New Standard Drawing (incorporates now withdrawn SD1131, 1132, 1148, 1179 and 1284 details)</li> <li>Revision ensures RC Slab Deck Culverts will have a 100 year design life</li> </ul>
SD1241	RC Slab Deck Culvert – Culvert Extension	New	<ul style="list-style-type: none"> <li>New Standard Drawing designed for culvert widening projects</li> </ul>
SD1327	Traffic Signals/Road Lighting – Mains Connections	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> <li>All references to MRS95 have been amended to MRTS228</li> <li>Minor drafting updates</li> </ul>
SD1408	Traffic Signals – Traffic Signal Terminal Panel for Joint Use Poles Wiring Details		
SD1431	Road Lighting – Base Plate Mounted Pole Wiring Details for Median Barriers		



Drawing	Title	Change Type	Description of change
SD1434	Traffic Signals/Road Lighting – Cable Guard Manufacturing Details		
SD1627	Road Lighting – Switchboard Top Mounted		
SD1630	Traffic Signals/Road Lighting – Conduit Entry Details Into Circular Pits		
SD1638	Road Lighting – Category 2 Advertising Devices Connected To Rate 3 Road Lighting as Alternative Point of Supply		
SD1363	Traffic Sign - Multiple Traffic Sign Support Standard and Breakaway Posts (1 of and 2 of 2)	Amendment	<ul style="list-style-type: none"> <li>Two SIGNFIX products HRH-1510 CH and HRH-2010 CH supplied by SIGNFIX Australia are now added to the Standard Drawings. Consequently, condition stage 4 related to these straps can now be removed</li> <li>Align with current TMR standards for materials and durability requirements</li> </ul>
SD1364	Traffic Sign - Connection Strap and Erection Cleat Details		
SD1380	Road Lighting – Slip Base Pole and Footing Installation Details for No Crossfall	Amendment	<ul style="list-style-type: none"> <li>1380, 1381, 1382, 1392, 1393, 1395, 1396, 1429: <ul style="list-style-type: none"> <li>Clarified the internal pole drainage intentions at the base of the pole. Top of PVC conduit lowered to top of grout to facilitate internal pole drainage. Clarified where possible the base plate configuration</li> </ul> </li> <li>1403 and 1421: <ul style="list-style-type: none"> <li>Conduit protection changed to bedding sand (where conduit depth is 600 min) as per requirements stated under AS 3000. Provided 4 x 10 mm dia. holes in PVC conduit to facilitate internal pole drainage in 1421. Top of PVC conduit lowered to top of grout in 1403 to facilitate internal pole drainage.</li> <li>Minor drafting updates to provide more clarity around base plate</li> </ul> </li> <li>1671: <ul style="list-style-type: none"> <li>References updated</li> </ul> </li> </ul>
SD1381	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls up to and Including 1:6		
SD1382	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater Than 1:6 up to and Including 1:3		
SD1392	Road Lighting – Base Plate Mounted Pole and Footing Installation Details for Crossfalls up to and Including 1:2		
SD1393	Road Lighting – Base Plate Mounted and Footing Installation Details for Crossfalls Greater Than 1:2		
SD1395	Road Lighting – Base Plate Mounted and Footing in Concrete Median Barrier Installation Details		
SD1396	Traffic Signals/Road Lighting – Joint Use Traffic Signal and Road Lighting Pole and Footing Installation Details		

Drawing	Title	Change Type	Description of change
SD1403	Traffic Signals – Mast Arm and Footing Installation Details		
SD1421	Traffic Signals – Traffic Signals Post and Footing Installation Details		
SD1429	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater Than 1:6 up to and Including 1:3 Using Concrete Step Tread		
SD1671	Traffic Signals/Road Lighting – Road Lighting Labels Installation		
SD1430	Road Lighting – Switchboard Pillar Mounted	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> <li>In accordance with November 2015 TRUM publication cycle where release of New 'Electrical Design Manual (EDM)', will supersede TRUM Volume 4, Part 3 Road Lighting Design and Technical Note 145</li> </ul>
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram MEN System		
SD1627	Road Lighting – Switchboard Top Mounted		
SD1676	Road Lighting – Switchboard Typical Pillar Layout		
SD1678	Traffic Signals/Road Lighting – Joint Use Pole Electrical Wiring Schematic Rate 2		
SD4000	Precast Planks for Boat Ramp – Type RG4000 and RG3500	Amendment	
SD4001	Precast Planks for Boat Ramp – Type OS4000 and OS3500		
SD4020	Boat Ramp – Boat Ramp Construction – Precast Plank Installation and Anchor Beam Types 1 and 2		
SD4021	Boat Ramp – Boat Ramp Construction – Earthworks and Crushed Rock Core Details		
SD4022	Boat Ramp – Boat Ramp Construction – Fully Grouted Shoulders and Ungouted Shoulders		

Drawing	Title	Change Type	Description of change
SD4023	Boat Ramp – Boat Ramp Construction – Concrete Slab and Joint Details	New	

## July 2015

Drawing	Title	Change Type	Description of change
SD1304	Pipe Culverts – Wingwalls, Headwalls and Aprons for Pipe Diameter 750 to 2400 – Drawing 1 and 2	Amendment	<ul style="list-style-type: none"> <li>SD1306 content transferred to SD1304 and SD1305</li> </ul>
SD1305	Pipe Culverts – Headwall and Aprons for Pipe Diameter 300 to 675		
SD1306	Ends to Pipe Culverts – Construction of Unreinforced Wingwalls, Headwalls and Aprons	Withdraw	
SD2280	FRP Composite Girders for Timber Bridge Rehabilitation – LOC 400 & LOC 420 Installation Details (17 Sheets)	New	<ul style="list-style-type: none"> <li>Formerly SD2605</li> <li>Updates to Sheets 6, 7, 9, 10, 12, 13, 15, 16 &amp; 17</li> </ul>
SD2281	FRP Composite Girders for Timber Bridge Rehabilitation – LOC 400 & LOC 420 Installation Procedure (3 Sheets)	New	<ul style="list-style-type: none"> <li>Formerly SD2606</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD2285	FRPC Girders for Timber Bridge Rehabilitation – WCFT – S1, S2 & S3 Installation Details	New	<ul style="list-style-type: none"> <li>New references in MRTS60</li> <li>Relevant to I shape girders</li> </ul>
SD2286	FRPC Girders for Timber Bridge Rehabilitation – WCFT – S1, S2 & S3 Installation Procedure		
SD1320	RC Box Culverts and Slab Link Box Culverts – Crown Unit Holding Down Anchors	Amendment	<ul style="list-style-type: none"> <li>Assembly detail of the precast base slab option has been removed due to MRTS24 requirements</li> <li>Assembly details have been redrawn and annotated for bolts, thickness of base and holes drilled, and duplicated labelling has been removed</li> <li>Holding Down Bracket has been redrawn in isometric perspective with clearer dimensioning</li> <li>The Notes have been updated consistent with current Departmental standards and relevant Australian Standards</li> </ul>

Drawing	Title	Change Type	Description of change
SD1353	Road Furniture – Vermin and Dog Fencing at Motor Grid	Amendment	<ul style="list-style-type: none"> <li>Relevant content in SD1352 transferred into SD1353</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1354	Road Furniture – Standard Bicycle Safe Fitting to Existing Motor Grid		
SD1355	Road Furniture – Alternative Bicycle Safe Fitting to Existing Motor Grid		
SD1465	Type F Concrete Barrier – Fabrication Details for W Beam Guardrail Connection Brackets	Amendment	<ul style="list-style-type: none"> <li>W Beam guardrail connection brackets associated with Type F concrete barrier shown is no longer compliant with TMR standards. This SD is only to be used for the replacement of damaged existing elements</li> <li>The Notes have been updated consistent with current Departmental standards and relevant Australian Standards</li> <li>All details for the Approach Connection Bracket have been grouped together above, and separate to, the group of Departure Connection Bracket details. All duplicate notations and dimensions have been removed</li> <li>A Plan view of the Approach Connection Bracket has been added</li> </ul>
SD1149	Traffic Signals/Road Lighting/ITS – Installation of Underground Electrical and Communications Conduit	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1314	Traffic Signals/Road Lighting – Cable Jointing Pit Drainage Details		
SD1333	Traffic Signals/Road Lighting/ITS – Minimum Clearance of Overhead Electric Lines from Ground and Structures		
SD1335	Road Lighting – Floodlight Mounting Bracket Outreach Mount (Option 2)		
SD1336	Road Lighting – Pedestrian Crossing Floodlight Mounting Bracket Spigot Mount (Option 1)		
SD1389	Road Lighting – Slip Base Pole Male/Female Connectors Installation Details		
SD1390	Road Lighting – Base Plate Mounted Pole Aerial Connection Wiring Details		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1400	Road Lighting – Slip Base Pole Wiring Details		
SD1406	Road Lighting – Pedestrian Crossing Floodlight Installation and Aiming		
SD1409	Road Lighting – Luminaire Headframes Wiring Details Excluding 4 x 400W Luminaires		
SD1410	Road Lighting – Luminaire Headframes Wiring Details 4 x 400W Luminaires		
SD1420	Traffic Signals – General Arrangements		
SD1436	Traffic Signals – Traffic Signal – Symbols		
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram MEN System		
SD1624	Road Lighting – Junction Box Single Phase Wiring Details		
SD1625	Road Lighting – Junction Three Phase Wiring Details		
SD1626	Road Lighting – Junction Box Active, Neutral and Earth Bolting Arrangements		
SD1671	Traffic Signals/Road Lighting – Road Lighting Labels Installation		

Drawing	Title	Change Type	Description of change
SD1380	Road Lighting – Slip Base Pole and Footing Installation Details for No Crossfall	Amendment	<ul style="list-style-type: none"> <li>Removal of the mortar filling details to the inside of the slip base pole. This provides detail that will remove the water easily from the pole</li> <li>An adjustment to the conduit height in the base plate</li> <li>SD1628 ONLY - The base plate opening increased to improve the installation of electrical conduits. Welding notes have also been updated in accordance with Australian Standards and Departmental Specifications</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1381	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Up to and Including 1:6		
SD1382	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater Than 1:6 Up to and including 1:3		
SD1429	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Greater Than 1:6 Up to and including 1:3 Using Concrete Step Tread		
SD1628	Road Lighting – Post – Top Mounted Switchboard		
SD1045	Revegetation – Treatment of Cut Batters		

### **April 2015**

Drawing	Title	Change Type	Description of change
SD1313	Concrete gully – Precast lintel detail	Amendment	<ul style="list-style-type: none"> <li>Design life has been reduced to 50 years from 100 years. This has resulted in reduced concrete cover</li> <li>Design loads have been updated to current AS 5100 'Bridge Design' loads</li> </ul>
SD1443	Concrete gully – Roadway type precast inlet units on grade		
SD1444	Concrete gully – Roadway type precast units in sag		
SD1315	Road lighting – Lighting design parameters	Amendment	<ul style="list-style-type: none"> <li>All references have been changed to MRTS228 as MRTS95 has become obsolete</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1329	Road lighting – Typical physical arrangement		

Drawing	Title	Change Type	Description of change
SD1370	Road lighting – General arrangements		
SD1371	Road lighting – Base Plate mounted pole		
SD1372	Road lighting – Slip base pole		
SD1373	Road lighting – Base plate mounted pole in concrete median barrier		
SD1375	Road lighting – high mast pole		
SD1376	Road lighting – Base plate mounted pole with pedestrian crossing floodlight		
SD1636	Road lighting – Road lighting		
SD1637	Road lighting – Underpass lighting wiring details		
SD1639	Road lighting – Slip base pole retrofit 2 pin plus and socket installation		
SD1707	Road lighting – Base plate mounted pole mounted on bridges wiring details		
SD1323	Road lighting – Luminaire terminal panel	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD1399	Road lighting – Base plate mounted pole wiring details		
SD1407	Traffic signals – Traffic signal terminal panel for joint use poles		
SD1412	Road lighting – Mast arm road lighting junction box (type B)		
SD1413	Traffic signals – Mast arm traffic signal junction box (type A)		
SD1414	Traffic signals – Mast arm traffic signal junction box (type A) wiring details		
SD1670	Traffic signals – Traffic signal wiring connections		
SD1403	Traffic signals – Mast arm footing installation details	Amendment	<ul style="list-style-type: none"> <li>Notes updated <ul style="list-style-type: none"> <li>Mast arm post drainage improved</li> <li>Sequence of installation clarified</li> </ul> </li> <li>Footing details table added</li> </ul>

Drawing	Title	Change Type	Description of change
SD1416	Traffic signals/Road lighting – Collar for 600 diameter cover – Drawing 1 of 2	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> <li>Minor drafting updates</li> </ul>
SD1417	Traffic signals/road lighting – Cable joining pit circular 600 diameter cover – Drawing 1 of 2		
SD1440	Traffic signals/Road lighting – Cable joining pit rectangular concrete surround		
SD1631	Traffic signals/Road lighting – Cable joining pit types 1(J), 3, 4, 7 and 8		
SD1632	Traffic signals/Road lighting – Cable joining pit cover type 1 (J)		
SD1633	Traffic signals/Road lighting – Cable joining pit cover – Types 3 and 4		
SD1634	Traffic signals/Road lighting – Cable joining pit cover – Types 7 and 8		
SD1439	Traffic signals – Traffic signal lantern designations, functions and aiming	Amendment	<ul style="list-style-type: none"> <li>Information on drawing updated to align to current Austroads Guide to Traffic Management <ul style="list-style-type: none"> <li>Note 1 added. Lanterns on 'Intersection-Divided Road' detail amended</li> <li>Cowl removed on dual primary on 'T-Junction Terminating Road' detail</li> <li>Reference to Traffic Signals Footings specification removed</li> </ul> </li> </ul>
SD1540	Abutment Protection – Type 1 – Rock Spill through – Up to 1700 clearance	Withdrawn	<ul style="list-style-type: none"> <li>These drawings have been renumbered to align with '2000 series' for Drawings associated with Bridges</li> <li>Aligns with MRTS03 update</li> </ul>
SD1541	Abutment Protection – Type 1 – Rock Spill through – Greater than 1700 clearance		
SD1542	Abutment Protection – Type 2 – Reinforced Concrete over Spill through – up to 1700 clearance		
SD1543	Abutment Protection – Type 2 – Reinforced Concrete Over Spill through – Greater than 1700 clearance		
SD1544	Abutment Protection – Type 4 – Rockwork over Spill through – up to 1700 clearance		



Drawing	Title	Change Type	Description of change
SD1545	Abutment Protection – Type 4 – Rockwork over Spill through – greater than 1700 clearance		
SD1548	Abutment Protection – Rock Masonry		
SD2052	Precast Units - 12m PSC deck unit - Drawings 1 of 5 to 5 of 5	New	<ul style="list-style-type: none"> <li>Drawings provide TMR standard details for 12m, 15m, and 25m precast prestressed concrete deck units</li> </ul>
SD2055	Precast Units - 15m PSC deck unit - Drawings 1 of 5 to 5 of 5		
SD2065	Precast Units – 25m PSC deck unit – Drawings 1 to 8 to 8 of 8		
SD2232	Abutment protection – Type 1 – Rock spilt through – Up to 1700 clearance	New	<ul style="list-style-type: none"> <li>Revised to align with MRTS03 update</li> <li>Renumbered (from '1500 series') to align with current framework of the '2000 series' for Drawings associated with Bridges</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>
SD2233	Abutment protection – Type 1 – Rock spill through – Greater than 1700 clearance		
SD2234	Abutment protection – Type 2 – Reinforced concrete over spill through – Up to 1700 clearance		
SD2235	Abutment protection – Type 2 – Reinforced concrete over spill through – greater than 1700		
SD2236	Abutment protection – Type 4 – Rockwork over spill through – up to 1700 clearance		
SD2237	Abutment protection – Type 4 – Rockwork over spill through – greater than 1700 clearance		
SD2238	Abutment protection – rock masonry		
SD2241	Abutment protection – Type 7 – Rock filled gabion protection – Height up to 6 metres	New	<ul style="list-style-type: none"> <li>Heavy duty Abutment protection systems for TMR bridge structures are provided following</li> </ul>

## January 2015

Drawing	Title	Change Type	Description of change
SD1408	Traffic signals – Traffic signal terminal panel for joint use poles wiring details	Amendment	<ul style="list-style-type: none"> <li>Part number corrected from 021 to 032 as listed on SD1699</li> <li>Wiring clarified in detail 2</li> </ul>
SD1415	Traffic signals/Road lighting – Cable jointing pit circular 600 diameter	Amendment	<ul style="list-style-type: none"> <li>Bell mouth fitting added at conduit entry into pit</li> </ul>
SD1428	Traffic signals – Traffic signal post base mounted		<ul style="list-style-type: none"> <li>Push button posts height extended to 1.4m to 1.6m</li> </ul>
SD1430	Road lighting – Switchboard Pillar Mounted	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by 1627 as preferred method of installation</li> </ul>
SD1630	Traffic signals/Road lighting – Conduit entry details into circular pits	Amendment	<ul style="list-style-type: none"> <li>Bell mouth fitting added at conduit entry into pit</li> </ul>
SD1676	Road lighting – Switchboard typical pillar layout	Withdrawn	<ul style="list-style-type: none"> <li>Only applicable to SD1430, which is now withdrawn</li> </ul>
SD1677	Traffic Signals/Road lighting – Joint use pole/combination mast arm electrical wiring schematic rate -3	Amendment	<ul style="list-style-type: none"> <li>Additional labelling of cables</li> <li>Traffic signal terminal panel wiring details added</li> </ul>
SD4000	Boat ramp – Precast plans for boat ramp – Types RG4000 and RG3500	New	<ul style="list-style-type: none"> <li>New drawings regarding boat ramps (2 drawings for precast concrete elements and 3 for construction)</li> </ul>
SD4001	Boat ramp – Precast plans for boat ramp – Types OS54000 and OS3500		
SD4020	Boat ramp – Boat ramp construction – Precast plank installation and anchor beam types 1 and 2		
SD4021	Boat ramp – Boat ramp construction – Earthworks and crushed rock core details		
SD4022	Boat ramp – Boat ramp construction – Fully grouted shoulders and ungrouted shoulders		

## October 2014

Drawing	Title	Change Type	Description of change
SD1380	Road lighting – Slip base pole and footing installation details for no crossfall	Amendment	<ul style="list-style-type: none"> <li>Modified in accordance with the MRTS91 update:               <ul style="list-style-type: none"> <li>Updates relating to improved drainage from inside light poles</li> <li>Updated footing details tables, including:                   <ul style="list-style-type: none"> <li>defining pole height (excluding outreach)</li> <li>clarifying and correcting minimum footing diameters applicable for pole heights</li> </ul> </li> <li>Minor formatting updates</li> </ul> </li> </ul>
SD1381	Road lighting pole – Slip base installation details for crossfalls not exceeding 1:6		
SD1382	Road lighting pole – Slip base and footing installation details for crossfalls greater than 1:6 up to and including 1:3		
SD1392	Road lighting – Base plate mounted pole and footing installation details for crossfalls up to and including 1:2		
SD1393	Road lighting – Base plate mounted pole and footing installation details for crossfalls greater than 1:2		
SD1395	Road lighting – Base plate mounted pole and footing in concrete median barrier installation details		
SD1396	Traffic signals/Road lighting – Joint use traffic signal and road lighting pole and footing installation details		
SD1429	Road lighting – Slip base pole and footing installation details for crossfalls greater than 1:6 up to and including 1:3 using concrete step tread		
SD1508	Bridge Barriers – Steel bridge traffic rail intermediate post and rails	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by SD2510</li> </ul>
SD1509	Bridge Barriers – Steel bridge traffic rail end post W beam connection	Withdrawn	<ul style="list-style-type: none"> <li>W beam connection is not a current standard</li> </ul>
SD1510	Bridge Barriers – Steel bridge traffic rail end post – three beam connection	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by SD2510</li> </ul>

Drawing	Title	Change Type	Description of change
SD1679	Telecommunications Field Cabinet Base Installation Details	Amendment	<ul style="list-style-type: none"> <li>• Circular pits replacing rectangular pits: <ul style="list-style-type: none"> <li>• Smaller communications conduit removed and the associated plinth void removed</li> <li>• Plinth lengths increased</li> <li>• Bell mount fitting added at conduit entry into pit</li> <li>• Associated and referenced departmental documents updated</li> </ul> </li> </ul>

### ***Exceptions September 2014***

Drawing	Title	Change Type	Description of change
SD1573	ITS Gantries – Lane control/Variable speed limit signs – without maintenance platform	New	<ul style="list-style-type: none"> <li>• New drawings to align with revised design criteria for gantry and support structures</li> <li>• These drawings provide advice on typical structure types, typical structural details and details of safe access and maintenance platforms</li> </ul>
SD1577	ITS Gantries – Lane control/Variable speed limit signs – Walk on gantry – Drawing 1 of 5		
SD1581	ITS – Cantilever – Cantilever Structure – Drawing 1 of 3		

### ***July 2014***

Drawing	Title	Change Type	Description of change
SD1170	Flood Depth Indicators – Installation	Amendment	<ul style="list-style-type: none"> <li>• Consistency of formatting on Notes on Standard Drawings</li> <li>• Drafting update and validate currency</li> </ul>
SD1174	R C Box Culverts – Construction of End Structures H = 150 - 600	Amendment	<ul style="list-style-type: none"> <li>• Consistency of formatting of notes on Standard Drawings.</li> <li>• Consistency with MRTS70 and AS3600</li> </ul>
SD1243	Culvert Headwalls – Precast Headwall (Reinforced Concrete Pipe Culverts) Drawing 2 of 2	New	<ul style="list-style-type: none"> <li>• To provide standard details for precast headwalls and connection between culvert and the precast headwall unit to prevent separation</li> </ul>
SD1291	Sign – Guide sign – Finger board, geographical feature and street name signs extrusion details	Amendment	<ul style="list-style-type: none"> <li>• Consistency of formatting of Notes on Standard Drawings</li> <li>• Dimensions updated to reflect industry standards</li> <li>• Drawing was removed in March 2014, however drawing is referenced in MRTS14 and added back into Standard Drawings</li> </ul>
SD1294	Sign – Roadwork Delineators	Amendment	<ul style="list-style-type: none"> <li>• Consistency and compliance with MRTS14, MUTCD and Australian Standards</li> </ul>
SD1295	Sign – Fingerboard, Geographical	Amendment	<ul style="list-style-type: none"> <li>• Consistency of formatting on Notes on Standard Drawings</li> </ul>

Drawing	Title	Change Type	Description of change
	Feature and Street Name Sign Bracket Details		<ul style="list-style-type: none"> <li>Drafting update and validate currency</li> </ul>
SD1328	Road lighting/ITS – Anchor cage Fabrication details	Amendment	<ul style="list-style-type: none"> <li>Anchor Cage details were not previously addressed for ITS requirements. Consistency of formatting of notes on Standard Drawings</li> </ul>
SD1330	Road lighting – underbridge lighting	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting Notes on Standard Drawings</li> <li>Consideration of current girder type</li> <li>Rationalisation to one luminaire type</li> </ul>
SD1331	Road lighting – wall mounted lighting bracket fabrication details	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> </ul>
SD1358	Maintenance Marker Posts – Installation Details	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> <li>Inconsistency due to definition of formation edge</li> </ul>
SD1395	Road lighting – Base plate mounted pole and footing in concrete median barrier installation details	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> <li>Consistency with Standard Drawing 1431</li> </ul>
SD1418	Traffic signals/road lighting – Junction box supporting strap	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> </ul>
SD1431	Road lighting – base plate mounted pole wiring details for median barriers	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> <li>Consistency with Standard Drawing 1395</li> </ul>
SD1434	Traffic signals/road lighting – Cable guard manufacturing details	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> </ul>
SD1466	Concrete barriers – typical delineator bracket details	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> <li>Clarification of delineator locations on concrete barriers</li> <li>Allowance for use of approved products</li> </ul>
SD1469	Single slope concrete barrier – extruded median barrier details of road lighting pole cover plates	Amendment	<ul style="list-style-type: none"> <li>Consistency of formatting of Notes on Standard Drawings</li> <li>Consistency with Standard Drawing 1395. (conduit as base of pole)</li> </ul>
SD1604	Fencing – galvanized welded mesh fencing	Amendment	<ul style="list-style-type: none"> <li>Consistency of Formatting on Notes on Standard Drawings</li> <li>Consistency with AS2423</li> </ul>
SD2044	Precast units – 19m PSC deck unit design assumptions	New	<ul style="list-style-type: none"> <li>Provide standard details and design assumptions for 19 m deck units</li> </ul>
SD2059	Precast units – 19m PSC Deck unit Drawing 1 of 5		

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Drawing	Title	Change Type	Description of change
SD1291	Sign – Guide Sign – Finger board, geographical feature and street name signs extrusion detail	Withdrawn	<ul style="list-style-type: none"> <li>These drawings are redundant since the December 2013 update of MRTS14</li> </ul>
SD1292	Sign – Roadworks Sign Support Y Stand		
SD1301	Sign – Roadworks Sign Details and Assembly of Crossbars and Supports		
SD1327	Traffic Signals/Road Lighting – Mains Connections	Amendment	<ul style="list-style-type: none"> <li>Dimension update on drawing to correctly indicate location of a cable guard</li> </ul>
SD1351	Road Furniture – Motor Grid	Withdrawn	<ul style="list-style-type: none"> <li>Accommodation for 'cast in-situ' options, as well as updates to AS5100 and departmental documentation (MRTS72, Design Criteria for Bridges and other structures, etc)</li> </ul>
SD1352	Road Furniture – Motor Grid with Vermin and Dog Fencing		
SD1377	Traffic Signals/Road Lighting – Joint use Traffic Signal and Road Lighting Pole	Amendment	<ul style="list-style-type: none"> <li>Provide clarity of clearance required for lantern from kerb alignment</li> </ul>
SD1380	Road lighting – Slip base pole and footing installation details for no crossfall	Amendment	<ul style="list-style-type: none"> <li>Accommodation for removal of pooled pwater inside the bases of poles.</li> </ul>
SD1381	Road lighting – Slip base pole and footing installation details for crossfalls up to and including 1:6		
SD1382	Road Lighting – Slip base pole and footing installation details for crossfalls greater than 1:6 up to and including 1:3		
SD1392	Road lighting – Base plate mounted pole and footing installation details for crossfalls up to and including 1:2		
SD1393	Road lighting – Base plate mounted pole and footing installation details for crossfalls greater than 1:2		
SD1395	Road lighting – Base plate mounted pole and footing in concrete median barrier installation details		
SD1396	Traffic signals/Road lighting – Joint use		

Drawing	Title	Change Type	Description of change
	traffic signal and road lighting pole and footing installation details		
SD1421	Traffic signals – Traffic signals post and footing installation details	Amendment	<ul style="list-style-type: none"> <li>Updated to enforce the mounting of base plates of switchboards and traffic signal posts above ground level</li> </ul>
SD1422	Traffic signals – Ragbolt sub-assembly fabrication details		
SD1423	Traffic signals – Traffic signal controller base installation details	Amendment	<ul style="list-style-type: none"> <li>Plinth detail added, circular pit shown and slab layout detail amended</li> </ul>
SD1427	Traffic signals/Road lighting – mast arm (U series) installation details	Amendment	<ul style="list-style-type: none"> <li>Accommodation for removal of pooled water inside the bases of poles</li> </ul>
SD1428	Traffic signals – Traffic signal post base mounted	Amendment	<ul style="list-style-type: none"> <li>Updated to enforce the mounting of base plates of switchboards and traffic signal posts above ground level</li> </ul>
SD1429	Road lighting – Slip base pole and footing installation details for crossfalls greater than 1:6 up to and including 1:3 using concrete step tread	Amendment	<ul style="list-style-type: none"> <li>Accommodation for removal of pooled water inside the bases of poles</li> </ul>
SD1430	Road lighting – Switchboard pillar mounted	Amendment	<ul style="list-style-type: none"> <li>Updated to enforce the mounting of base plates of switchboards and traffic signal posts above ground level</li> </ul>
SD1448	Road Furniture – Motor Grid (RHS Rails)	Withdrawn	<ul style="list-style-type: none"> <li>Accommodation for 'cast in-situ' options, as well as updates to AS5100 and departmental documentation (MRTS72, Design Criteria for Bridges and other structures, etc)</li> </ul>
SD1449	Road Furniture – Motor Grid (RHS Rails) with Vermin and Dog Fencing		
SD1450	Traffic Sign – Traffic Sign Support Timber Posts	Withdrawn	<ul style="list-style-type: none"> <li>These drawings are redundant since the December 2013 update of MRTS14</li> </ul>
SD1451	Traffic Sign – Timber Support Details		
SD1468	Single slope concrete barrier – Extruded median barrier – barrier, reinforcing and expansion	Amendment	<ul style="list-style-type: none"> <li>Options provided for barriers with different heights</li> </ul>
SD1519	Precast Units – Design Assumptions for Standard Deck Units	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by SD2042</li> </ul>
SD1561	Road Furniture – Motor Grid – General Arrangement Drawing 1 of 2	New	<ul style="list-style-type: none"> <li>Accommodation for 'cast in-situ' options, as well as updates to AS5100 and departmental documentation (MRTS72, Design Criteria for Bridges and other structures, etc)</li> </ul>
SD1562	Road Furniture – Motor Grid – Cast Insitu Abutment		
SD1563	Road Furniture – Motor Grid – Cast Insitu Base Slab Drawing 1 of 2		

Drawing	Title	Change Type	Description of change
SD1564	Road Furniture – Motor Grid – Precast Base Slab Drawing 1 of 2		
SD1565	Road Furniture – Motor Grid - Steelworks		
SD1627	Road Lighting – Switchboard top mounted	Amendment	
SD1638	Road Lighting – Category 2 advertising devices connected to rate 3 road lighting as alternative point of supply	Amendment	<ul style="list-style-type: none"> <li>Updated to enforce the mounting of base plates of switchboards and traffic signal posts above ground level</li> </ul>
SD1640	Vegetation Protection Works – Erection of Fenced Enclosures Around Vegetation	Withdrawn	<ul style="list-style-type: none"> <li>Conflicting, redundant, or has been combined with other drawings</li> </ul>
SD1641	Vegetation Protection Works – Padding of Trees, Boarding of Drip Zones and Tree Surgery		
SD1643	Vegetation ground works – Planting container stock kerbed medians and separators	Amendment	<ul style="list-style-type: none"> <li>Updated content and references, and improved coordination with MRTS16</li> </ul>
SD1644	Vegetation ground works – Hardstand abutments to vegetation works		
SD1645	Vegetation Ground Works – Ground Preparation	Withdrawn	<ul style="list-style-type: none"> <li>Conflicting, redundant, or has been combined with other drawings</li> </ul>
SD1646	Vegetation ground works – Roughening, ripping, and cultivation	Amendment	<ul style="list-style-type: none"> <li>Updated content and references, and improved coordination with MRTS16</li> </ul>
SD1647	Vegetation works – Matting		
SD1648	Vegetation works – Plant mats		
SD1651	Vegetation works – Turfing and seeding		
SD1652	Vegetation works – Reinforced Turf	Withdrawn	<ul style="list-style-type: none"> <li>Conflicting, redundant, or has been combined with other drawings</li> </ul>
SD1653	Vegetation Works – Planting container stock < 25L container	Amendment	<ul style="list-style-type: none"> <li>Updated content and references, and improved coordination with MRTS16</li> </ul>
SD1564	Vegetation Works – Planting stock >25L container		
SD1655	Vegetation Works – Planting of Tube Stock and Container Stock on Slopes	Withdrawn	<ul style="list-style-type: none"> <li>Conflicting, redundant, or has been combined with other drawings</li> </ul>
SD1656	Vegetation Works – Guying advanced containers and ex-ground stock	Amendment	<ul style="list-style-type: none"> <li>Updated content and references, and improved coordination with MRTS16</li> </ul>



Drawing	Title	Change Type	Description of change
SD1659	Hardscape Works – Timber planting bed edging		
SD1660	Hardscape Works – Concrete planting bed edging		
SD1673	Traffic Signals/Road lighting – Labels	New	<ul style="list-style-type: none"> <li>New drawing to clarify label requirements</li> </ul>
SD1681	Traffic Signals/Road lighting – Riser for 600 diameter circular cable jointing pit	New	<ul style="list-style-type: none"> <li>New drawing of a riser to be used to raise a circular pit</li> </ul>
SD1771	ITS IPRT Network – PSC MK3 controller additional power outputs via RCD protected G.P.O	New	<ul style="list-style-type: none"> <li>New drawings due to conversion from PAPL to IPRTT</li> </ul>
SD1772	ITS IPRT Network – PSC MK1 and 2 controller additional power outputs via RCD protected by G.P.O.		
SD1773	ITS IPRT Network – PSC MK3 controller with tophat additional power outputs via RCD protected G.P.O.		
SD1774	ITS IPRT Network – PSC MK1 and MK2 controller with tophat additional power outputs via RCD protected G.P.O.		
SD1775	ITS IPRT Network – PSC MK1 and MK2 controller additional power outputs protected G.P.O. via RCD optional field processor location		
SD1776	ITS IPRT Network – PSC MK3 controller additional power outputs protected G.P.O. via RCD optional field processor location		
SD1777	ITS IPRT Network – Tyco eclipse controller additional GPO's via existing RCD GPO plus communications equipment		
SD1778	ITS IPRT Network – Tyco Eclipse controller with tophat additional GPO's via existing RCD GPO plus communications equipment		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1779	ITS IPRT Network – ATS Alfa 16 controller with tophat additional GPO's via new RCD GPO plus communications equipment		
SD1780	ITS IPRT Network Typical traffic controller Telstra modem and associated communications cabling		
SD1781	ITS IPRT Network – ATS ALFA 16 controller with tophat additional GPO's via existing RCD GPO plus communications equipment		
SD1782	ITS IPRT Network – Typical traffic controller with Telstra modem and associated Next G antenna		
SD1783	ITS IPRT Network – Typical traffic controller with tophat Telstra modem and associated Next G antenna		
SD2605	FRPC Girders for timber bridge rehabilitation – LOC 400 and LOC 420 installation details Sheet 1 of 17	New	<ul style="list-style-type: none"> <li>To provide standard procedure and details for the use of FRPC Girders</li> </ul>
SD2606	FRPC Girders for timber bridge rehabilitation – LOC 400 and LOC 420 installation procedure Sheet 2 of 3		
SD2042	Precast Units – Design assumptions for transversely stressed standard deck units drawing 2 or 2	New	<ul style="list-style-type: none"> <li>New drawing to conform to AS5100 and updates departmental documents</li> </ul>