

# Transport and Main Roads Standard Drawings

## Amendment Register – 2014 to 2024

### 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 2024

Drawing	Title	Change Type	Description of change
SD1305	Pipe Culverts - Headwall and Apron for Pipe Diameter 375 to 675 (Drawing 1 of 2 to Drawing 2 of 2)	Amended	Amendments to the drawing are as follows: <ul style="list-style-type: none"> <li>Concrete Notes are updated to aligned with the current revision of AS 5100 and now specify updated cover and reinforcement requirements for each respective per Exposure Classification.</li> <li>The apron slab thickness and reinforcement are amended to align with SD1304.</li> <li>The width of the headwall and depth of footing are revised.</li> <li>The width of footings is reduced for the larger pipes covered by this drawing.</li> <li>The reinforcement arrangement has been simplified for ease of construction.</li> <li>Starter bars are added to the unreinforced headwall to provide robust connection at the construction joint.</li> <li>Contraction joint details and notes are added align with SD1304.</li> <li>The new revision is rearranged onto 2 drawings, and scale of most views is increased to improve readability.</li> </ul>
SD1331	Road Lighting - Wall Mounted Lighting	Amended	<ul style="list-style-type: none"> <li>Minimum and maximum geometry for luminaire installed level to MRTS94.</li> <li>Full connection details.</li> <li>Better welding and fabrication details.</li> <li>All details and notes are revised and updated to align with current standards.</li> </ul>
SD1389	Road Lighting - Slip Base Pole Male/Female Connectors Installation Details	Amended	<ul style="list-style-type: none"> <li>Revision of the clamping block to accommodate 4 cables instead of 2.</li> <li>Details added on looping cable through large hole in clamping block before clamping in small holes.</li> <li>Earth cable connection between upper and lower crossbars added with note that this is a protective earth.</li> </ul>
SD1400	Road Lighting - Slip Base Pole Wiring Details	Amended	<ul style="list-style-type: none"> <li>Extended earth cable to match SD1389.</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1452	Traffic Sign - Sight Board Installation Details for Rehabilitation of Existing (Sheet 1 of 3 to Sheet 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Notes in SD1452 have been updated to reflect Queensland MUTCD harmonisation to AS 1742. Reference to D4-1-1 and removal of D4-1-1-Q03 for the sightboard.</li> </ul>
SD1699	Traffic Signals / Road Lighting / ITS - Parts List	Amended	<ul style="list-style-type: none"> <li>Added Part Number 383, Hex head bolt.</li> </ul>
SD1807	Property Access - Rural property Access (Drawing 1 of 2 to Drawing 2 of 2)	Amended	<ul style="list-style-type: none"> <li>Referenced documents in SD1807 have been updated to ensure the information on the drawing is current with Austroads Guides.</li> </ul>
SD4003	Precast Planks for Boat Ramp - Types RG4000 FRP	Amended	<ul style="list-style-type: none"> <li>General review as current SD is dated October 2018.</li> <li>Change to the separation plate detail.</li> </ul>
SD4020	Boat Ramp - Boat Ramp Construction - Precast Plank Installation and Anchor Beam - Types 1 and 2	Withdrawn	<ul style="list-style-type: none"> <li>Superseded by new drawings SD4030 to SD4032.</li> </ul>
SD4021	Boat Ramp - Boat Ramp Construction - Earthworks and Crushed Rock Core Details		
SD4022	Boat Ramp - Boat Ramp Construction - Fully Grouted Shoulders and Ungrouted Shoulders		
SD4023	Boat Ramp - Boat Ramp Construction - Concrete Slab and Joint Details		
SD4024	Boat Ramp - Information Signs - Materials, Fabrication, and General Arrangement		
SD4030	Boat Ramp Construction - General Arrangement and Earthworks	New	<ul style="list-style-type: none"> <li>New issue drawing that will unite related construction details and remove under used details. Changes will benefit internal users and construction contractors through improved clarity.</li> <li>Supersedes SD4020 to SD4024.</li> </ul>
SD4031	Boat Ramp Construction - Shoulders and Grouted Mattress		
SD4032	Boat Ramp Construction - Concrete Slab and Joint Details (Steel Reinforced)		

## November 2023

Drawing	Title	Change Type	Description of change
SD1309	Concrete Gully – Field Inlet Type 1	Amended	<ul style="list-style-type: none"> <li>Update to dimensioning of the 12V6 and 12V7 bars on this Standard Drawing to follow the details of the V bar on SD1043 <i>Reinforcing Steel – Standard Bar Shapes Typical Details and Notes</i>, and</li> </ul>
SD1424	Traffic Signals – Detector Loops Installation Details	Amended	<p>The new changes of SD1424 provides better clarity and details of preformed loops installation. These changes are:</p> <ul style="list-style-type: none"> <li>Clarify how to select installation methods</li> <li>Provide details of overlay method for preformed loops</li> <li>Update saw cut method for preformed loops</li> <li>Instructions for the installation with Strain Alleviating Membrane (SAM) seal in place</li> <li>Selection guideline for 9.5 OD and 16 OD preformed loop</li> <li>Instructions for preformed loop installation with concrete base</li> <li>Rewrite “Notes”</li> <li>Update reference documents</li> </ul>
SD1441	Access chamber – Step irons	Withdrawn	<ul style="list-style-type: none"> <li>Standard Drawing withdrawn as it does not comply to AS 1657 <i>Fixed platforms, walkways, stairways and ladders – design, construction and installation</i>. Practitioners are already advised to follow AS 1657 for guidance in providing safe access within access chambers on SD1307 <i>Access Chamber – Cast Insitu Details for 1050 to 2100 Diameter Roadway Type Access Chamber</i>.</li> </ul>
SD1475	Steel beam guardrail – Installation on bridge and barrier approaches	Withdrawn	<ul style="list-style-type: none"> <li>Removal of Public Domain Barrier Systems content and references. The withdrawn Standard Drawings will continue to be publicly available on the <a href="#">Withdrawn drawings</a> webpage for ongoing legacy maintenance works.</li> </ul>
SD1477	Steel beam guardrail – Posts and Blockouts, Soil and Bearing Plates, Slip Base Plate		
SD1481	Steel beam guardrail – Fabrication details for thrie beam rails and rail components		
SD1482	Steel beam guardrail – W beam and thrie beam assemblies		

## July 2023

Drawing	Title	Change Type	Description of change
SD1423	Traffic Signals - Traffic Signal Controller Base Installation Details	Amended	<ul style="list-style-type: none"> <li>Replacement of the earth clamp with earth block (SD1423, SD1627, SD1679)</li> </ul>

Drawing	Title	Change Type	Description of change
SD1627	Road Lighting - Switchboard Top Mounted	Amended	<ul style="list-style-type: none"> <li>Addition of note indicating that earth electrode shall be driven to no less than 1300 mm vertically into the ground, leaving a minimum of 150 mm exposed length at the base of the pit (Note 2C in SD1423, SD1627, SD1679)</li> <li>Addition of part numbers 426 and 427 for stainless steel earth electrode and earth block respectively (SD1423, SD1627, SD1679, SD1689)</li> </ul>
SD1679	ITS - Telecommunications Field Cabinet Base Installation Details	Amended	
SD1689	ITS - Switchboard Typical Layout and Circuit Diagram MEN System	Amended	
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>
SD2255	Bridge approaches - Relieving Slab 3 metre span	Amended	<ul style="list-style-type: none"> <li>Update to clarify the upper surface of ballast walls should be a planar surface, even for crowned bridges. This is to avoid induced stresses into starter bar reinforcement as slabs rotate during in service, embankment settlement, or scour and so on (wider structures are more exposed to this effect)</li> </ul>
SD2256	Bridge approaches - Relieving Slab 6 metre span	Amended	
SD4000	Precast Planks for Boat Ramp – Types RG4000 and RG3500	Amended	<ul style="list-style-type: none"> <li>Rationalisation and update of the referenced standards</li> <li>Clarification of the 'Notes'</li> <li>Minor changes to terminology</li> </ul>
SD4001	Precast Planks for Boat Ramp – Types OS4000 and OS3500	Amended	
SD4002	Precast Planks for Boat Ramp – Types T4000 and T3500	Amended	

### March 2023

Drawing	Title	Change Type	Description of change
SD1043	Reinforcing Steel – Standard Bar Shapes Typical Details and Notes (Drawing 1 of 1 to Drawing 4 of 4)	Amended	<ul style="list-style-type: none"> <li>The Weld Tables for bar shapes P and SD are amended with the length of weld compliant with AS 5100.5 Clause 13.2.6 and are transferred to Standard Drawing 1044 for ease of reference.</li> <li>The spiral anchoring details are clarified for bar shape Q on Drawing 3.</li> <li>The Notes are updated to reflect the above changes.</li> </ul>
SD1044	Reinforcing Steel – Lap Lengths	Amended	<ul style="list-style-type: none"> <li>New Weld Table added formerly on Standard Drawing 1043, and the lapped splice detail is also amended.</li> <li>The Notes are updated to reflect the above changes.</li> </ul>
SD1250	RC Box Culverts and Slab Link Box Culverts - Culverts Height > 600 (Drawings 1 of 3 to Drawings 3 of 3)	Amended	<ul style="list-style-type: none"> <li>The contraction joint details for aprons are now drawn up separately in Section A of both drawings and improved for slab bases.</li> </ul>

Drawing	Title	Change Type	Description of change
SD1260	RC Box Culverts and Slab link Box Culverts - Culverts Height = 375 to 600 (Drawing 1 of 2 to Drawing 2 of 2)		<ul style="list-style-type: none"> <li>The arrangement of bars in the slab base are amended in all details to clearly demonstrate how to place the bars in two layers in the top and in the bottom of the slab. The slab bases for culverts sized as "spans up to 2100 mm", is now thicker to allow the edge bars to be installed closer to vertical instead of always on a slant.</li> </ul>
SD1314	Traffic Signals / Road Lighting – Cable Jointing Pit Drainage Details	Amended	<ul style="list-style-type: none"> <li>Note 2 on standard drawing SD1314 has been updated to clarify the drainage requirements.</li> </ul>
SD1423	Traffic Signals – Traffic Signals Controller Base Installation Details	Amended	<ul style="list-style-type: none"> <li>Changes were made to SD1423 and SD1679 to address the installation of department's field cabinets in flood prone areas.</li> <li>To reset the requirement on concrete for the slab on SD1423 back to N25/20, to be the same as on SD1679.</li> </ul>
SD1679	ITS – Telecommunications Field Cabinet Base Installation Details		
SD1633	Traffic Signals/Road Lighting - Cable Jointing Pit Cover Types 3 and 4 (Sheet 1 of 2 to Sheet 2 of 2)	Amended	<ul style="list-style-type: none"> <li>Changes were made to SD1633 and SD1634 to include lockable options.</li> </ul>
SD1634	Traffic Signals/Road Lighting - Cable Jointing Pit Cover Types 7 and 8 (Sheet 1 of 2 to Sheet 2 of 2)		
SD1690	ITS - Switchboard Assembly Details Pole/Top Mounted (sheet 1 of 1 to Sheet 2 of 2)	Amended	<ul style="list-style-type: none"> <li>Standardising on three cabinet variants to suite space and environmental requirements, for example, Tunnels, Post-top or direct Pole mounting arrangements. A detailed wiring diagram has also been provided.</li> </ul>
SD1695	Traffic Signals/Road Lighting/ITS - Circular Split Pit	Administrative	<ul style="list-style-type: none"> <li>Note reference corrected from 8 to 10.</li> </ul>
SD1901	ITS - Traffic Survey Cabinet Base Installation Details	Amended	<p>New and revised standard drawings are intended to provide installation standards for Traffic Survey sites with Automatic Number Plate Recognition (ANPR) and Weigh in Motion (WiM) infrastructure assets and to minimise parts carried for maintenance activities.</p> <ul style="list-style-type: none"> <li>SD1901 revised to D revision.</li> <li>SD1902 and SD1903 revised to C revision.</li> <li>SD1912, SD1913 and SD1915 are new A revisions for publication.</li> </ul>
SD1902	ITS - Traffic Survey Post PTZ CCTV Multi-Purpose Camera Post Typical Details		
SD1903	ITS - Traffic Survey PTZ CCTV Multi-Purpose Camera Post Wiring Details		
SD1912	ITS - Traffic Survey ANPR Camera Breakout Box Connection Details	New	
SD1913	ITS - Traffic Survey ANPR Camera Breakout Box Wiring Details		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1915	ITS - Traffic Survey ANPR Camera Pole Typical Details		
SD1906	ITS - WIM Piezo Sensor Installation Details	Amended	<p>The revised drawings have standard drawings references corrected.</p> <ul style="list-style-type: none"> <li>• SD1917, SD1918, SD1919, SD1920, SD1921, SD1922. SD1923, SD1924 and SD1925 revised to B revision for publication.</li> <li>• SD1908 andSD1909 revised to C revision for publication.</li> <li>• SD1906 and SD1910 revised to D revision for publication.</li> <li>• SD1911 revised to E revision for publication.</li> </ul>
SD1908	ITS - WIM Sensor Configuration Piezo-Loop-Piezo (Sheet 1 of 2 and Sheet 2 of 2)		
SD1909	ITS - WIM Sensor Configuration Piezo-Piezo-Loop-Piezo-Piezo		
SD1910	ITS - WIM Sensor Configuration Piezo-Piezo		
SD1911	ITS - WIM Sensor Configuration Strain Gauge Sensor (Sheet 1 of 2 and Sheet 2 of 2)		
SD1917	ITS - Axle-Based Vehicle Classifier Sensor Configuration Loop-Piezo-Loop (Sheet 1 of 2 to 2 of 2)		
SD1918	ITS - Axle-Based Vehicle Classifier Sensor Configuration Piezo-Loop-Piezo (Sheet 1 of 2 to 2 of 2)		
SD1919	ITS - Axle-Based Vehicle Classifier Sensor Configuration Piezo-Piezo		
SD1920	ITS - Length-Based Vehicle Classifier Sensor Configuration Loop-Loop (Sheet 1 of 2 to 2 of 2)		
SD1921	ITS - Axle-Based Vehicle Classifier Sensor Configuration Tube-Tube		
SD1922	ITS - Vehicle Classifier Cabinet Details Solar Powered (Sheet 1 of 2 to 2 of 2)		
SD1923	ITS - Vehicle Classifier Cabinet Details Mains Powered (Sheet 1 of 2 to 2 of 2)		

Drawing	Title	Change Type	Description of change
SD1924	ITS - Vehicle Classifier Cabinet Installation Solar Powered		
SD1925	ITS - Vehicle Classifier Cabinet Installation Mains Powered		
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>On Drawing 1, Note 9 for Helix splicing is amended to specify 1.5 flat turns for lapping</li> <li>On Drawings 2 and 3, the wording for how the helix is terminated at the top of the pile is amended to be "1.5 flat turns and anchored with a 300 extension into core".</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)		

## November 2022

Drawing	Title	Change Type	Description of change
SD1170	Flood Depth Indicators-Installation	Amended	<ul style="list-style-type: none"> <li>Title of G9-22-1B corrected from G9-22-1.</li> <li>Added reference to MUTCD Part 2</li> </ul>
SD1294	Sign – Roadwork Delineators	Amended	<ul style="list-style-type: none"> <li>General review undertaken to confirm currency. Date updated.</li> </ul>
SD1295	Sign - Fingerboard, Geographical Feature and Street Name Sign Bracket Details	Amended	<ul style="list-style-type: none"> <li>Removed reference with withdrawn Standard Drawing SD1291.</li> <li>Title of AS/NZS 1214 corrected.</li> </ul>
SD1356	Road Edge Guide Posts – Timber and Tubular Steel Post and Installation Details	Amended	<ul style="list-style-type: none"> <li>Clarified steel notes and amended reference to AS/NZS 1552 to reflect AS/NZS 1214.</li> <li>Included references to additional AS/NZS as relevant.</li> <li>Increased M10 Galvanised Hexagonal bolt length from 90 mm to 100 mm.</li> </ul>
SD1358	Maintenance Marker Posts - Post and Installation Details	Amended	<ul style="list-style-type: none"> <li>Note 5 added regarding hazard marker installation (SD1851).</li> <li>Reference to SD1851 added.</li> </ul>
SD1418	Junction Box Supporting Strap	Amended	<ul style="list-style-type: none"> <li>Reviewed for currency, no technical changes made.</li> </ul>

Drawing	Title	Change Type	Description of change
SD1911	Provision of Weigh in Motion (WiM) Systems	Amended	<ul style="list-style-type: none"> <li>Revised to adopt technical term for a culvert. Drawing notes are updated to be more concise.</li> </ul>

## July 2022

Drawing	Title	Change Type	Description of change
SD1243	Precast Culvert Headwalls - Headwall Connections (Drawing 1 of 3 to Drawing 3 of 3)	Amended	<ul style="list-style-type: none"> <li>Formerly titled '<i>Precast Culvert Headwalls – Headwall Connections for Culverts (Drawing 1 of 3 to Drawing 3 of 3)</i>'</li> <li>The current Drawing 1 will now be the last in the standard, IE Drawing 3, because it details the alternative option for small culverts.</li> <li>The Anchor table on the revised Drawings 1 and 2 is expanded for all culvert sizes.</li> <li>The Notes on each drawing are amended to reflect that Drawings 1 and 2 can be used for all sizes.</li> <li>Reference to design for headwall connections to TN27 is added to all the drawings.</li> <li>Reference to sloping headwalls is now added to revised Drawing 3.</li> </ul>
SD1309	Concrete Gully – Field Inlet Type 1	Amended	<ul style="list-style-type: none"> <li>The requirement for hot dipped galvanising of reinforcement is deleted from Note 5 on the drawings.</li> </ul>
SD1310	Concrete Gully – Field Inlet Type 2		
SD1321	Concrete Gully – Precast Concrete Side Inlet Gully with Precast Shaft	Amended	<ul style="list-style-type: none"> <li>A note is now added to the Typical Plan on each drawing to install a uPVC slotted stub in all pits and access chambers for the dewatering of any upstream pipe trench during construction, if required.</li> </ul>
SD1322	Concrete Gully – Precast Concrete Side Inlet Gully with Cast In Situ Pit		
SD1372	Road Lighting – Slip Base Pole	Amended	<ul style="list-style-type: none"> <li>Inclusion of the provision of clamping bolt tethering systems with the installation of Rate 3 slip base road lighting poles to prevent clamping bolts from being projected a high speed and long distance from poles when impacted in vehicle crashes.</li> </ul>
SD1380	Road Lighting – Slip Base Pole and Footing Installation Details for No Crossfall		
SD1381	Road Lighting – Slip Base Pole and Footing Installation Details for Crossfalls Up to and Including 1:6		



<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
SD1699	Traffic Signals/Road Lighting/ITS – Parts List		
SD1399	Road Lighting – Base Plate Mounted Pole Wiring Details	Amended	<ul style="list-style-type: none"> <li>The standard drawings had been updated with clearer requirements on the fastening of nuts and bolts in electrical switchboards, junction boxes, traffic signals/road lighting poles</li> </ul>
SD1408	Traffic Signals – Traffic Signal Terminal Panel for Joint Use Poles Wiring Details		
SD1414	Traffic Signals – Mast Arm Traffic Signal Junction Box (Type A) Wiring Details		
SD1626	Road Lighting – Junction Box Active, Neutral and Earth Bolting Arrangements		
SD1637	Road Lighting – Underpass Lighting Wiring Details		
SD1707	Road Lighting – Base Plate Mounted Pole Mounted on Bridges Wiring Details		
SD1430	Road Lighting – Switchboard Pillar Mounted	Amended	<ul style="list-style-type: none"> <li>Details of the pillar foundation had been added to SD1430: Road Lighting - Switchboard Pillar Mounted.</li> </ul>
SD1627	Road Lighting – Switchboard Top Mounted		
SD1901	ITS – Traffic Monitoring Equipment Cabinet Base Installation Details		

Drawing	Title	Change Type	Description of change
SD1490	Steel Beam Guardrail – Details for Installation of Guardrail over Culverts where Depth of Cover is Less than 1100	Withdrawn	<ul style="list-style-type: none"> <li>The use of the connections detailed on SD 1490 and 1491 are NOT to be used on new projects or installations within the TMR road network unless certified by a RPEQ under TMR's Design Exception process.</li> <li>Each drawing is to be withdrawn and transferred to the existing web page for this suite of withdrawn public domain barrier standard drawings and from there remains available for use if required for maintenance and repairs of existing public domain installations on culverts within the network.</li> </ul>
SD1491	Steel Beam Guardrail – Guardrail Attachments to existing box culverts – Assembly and Fabrication Details		
SD1518	Banners on Light Poles - Banner Installation and Support Details (Drawing 1 of 2 to Drawing 2 of 2)	Amended	<ul style="list-style-type: none"> <li>Formerly titled Banners on Light Poles – 2 Metre Banner Installation and Support Details (Drawing 1 of 2 to Drawing 2 of 2)</li> <li>The method of attachment is simplified to proprietary interconnecting items, instead of welding rod to chain.</li> <li>All details and notes are reviewed and updated, with appropriate reference to the newly revised TN69.</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>Three (3) errors in the equipment numbering on the drawing had been corrected. Part numbers 492, 579, 592, changed to 448, 590, 589 respectively.</li> </ul>
SD1755	Road Lighting - Slip Bolt Tethering System for TMR Rate 3 Slip Base Poles	New	<ul style="list-style-type: none"> <li>Inclusion of the provision of clamping bolt tethering systems with the installation of Rate 3 slip base road lighting poles to prevent clamping bolts from being projected a high speed and long distance from poles when impacted in vehicle crashes.</li> </ul>
SD1916	ITS - Axle-Based Vehicle Classifier Sensor Installation Details	New	<ul style="list-style-type: none"> <li>This revision of TRUM Volume 4 Part 5, MRTS251 and new standard drawings, clarifies existing material on installation of Loops and introduces new material on the placement and installation of Piezoelectric sensors, Pneumatic tubes, and Passive infrared sensors, which are used in vehicle counters/Classifiers, bicycle/pedestrian counters, and Weigh-in-Motion Applications.</li> <li>TRUM volume 4 Part 5 is now the reference document for placement of all traffic sensors.</li> </ul>
SD1917	ITS - Axle-Based Vehicle Classifier Sensor Configuration Loop-Piezo-Loop (Sheet 1 of 1 to Sheet 2 of 2)		
SD1918	ITS - Axle-Based Vehicle Classifier Sensor Configuration Piezo-Loop-Piezo (Sheet 1 of 2 to Sheet 2 of 2)		
SD1919	ITS - Axle-Based Vehicle Classifier Sensor Configuration Piezo-Piezo		
SD1920	ITS - Length-Based Vehicle Classifier Sensor Configuration Loop-Loop (Sheet 1 of 2 to Sheet 2 of 2)		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1921	ITS - Axle-Based Vehicle Classifier Sensor Configuration Tube-Tube		
SD1922	ITS - Vehicle Classifier Cabinet Details Solar Powered (Sheet 1 of 2 to Sheet 2 of 2)		
SD1923	Vehicle Classifier Cabinet Details Mains Powered (Sheet 1 of 2 to Sheet 2 of 2)		
SD1924	ITS - Vehicle Classifier Cabinet Installation Solar Powered		
SD1925	ITS - Vehicle Classifier Cabinet Installation Mains Powered		
SD1928	ITS - Bicycle Counter (Sheet 1 of 2 to Sheet 2 of 2)		
SD1929	ITS - Bicycle and Pedestrian Counter (Sheet 1 of 2 to Sheet 2 of 2)		
SD2021	550 Octagonal PSC Piles – Earthquake Classification BEDC-1 Exposure Classification B2 (Drawing 1 of 3 to Drawing 3 of 3)	Amended	The drawings are amended for: <ul style="list-style-type: none"> <li>• Grade for grey iron amended to ISO 185/JL/HBW195 to AS 1830.</li> <li>• Cast-in Lifting Anchor Note A2 is amended for use of approved cementitious grout.</li> <li>• The length of weld is amended on the Typical Reinforcement / Strand Support and the Welded Hoop Alternative details on Drawing 2 and 3.</li> <li>• The designation for ribbed wire reinforcement nominated in the Notes and details is corrected to D500L.</li> <li>• Helix splicing and anchoring Notes and details are amended.</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)		

Drawing	Title	Change Type	Description of change
SD2190	Bridge Barriers - Precast Bridge Barrier Panel - General Arrangement	New	<ul style="list-style-type: none"> <li>Publication of this new drawing will allow standardisation and reuse of moulds for precasting of barrier panels for TMR projects, which will have a significant positive impact for all stakeholders.</li> </ul>
SD2231	Abutment Protection - Permanent Survey Instrument Mount	New	<ul style="list-style-type: none"> <li>This New Standard Drawing details the provision for a surveyor dedicated pillar and work platform with safe access that incorporates a cast in instrument mount for use on new TMR bridge projects.</li> </ul>

## March 2022

Drawing	Title	Change Type	Description of change
SD1149	Traffic Signals / Road Lighting / ITS – Installation of Underground Electrical and Communications Conduit	Amended	<ul style="list-style-type: none"> <li>Notes have been modified and added to clarify the requirements on the installation of multiple conduits in a single drilling (bored) tunnel.</li> <li>A note also had been added to specify the vertical alignment of multiple conduits.</li> <li>Recycled crushed glass may now be used as a bedding material.</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	Amended	<p>On Drawing 1 of SD1260:</p> <ul style="list-style-type: none"> <li>the shape of the apron is corrected to be parallel to the direction of flow for skewed culverts and a note to this effect is added to the Skewed Culvert Typical Plan, and</li> <li>a minimum apron width rule has been included (575mm minimum) to ensure required embedment for the dowels with (Section A-Sheet 1).</li> </ul>
SD1333	Traffic Signals / Road Lighting / ITS – Minimum Clearance of Overhead Electric Lines from Ground and Structures	Amended	<ul style="list-style-type: none"> <li>There have been a number of WHSQ non compliances around the network over the last 12 months regarding the term used 'not normally accessible to persons' in the electricity Entity guideline in SD1333. Additional details have been added to clarify the requirement.</li> </ul>
SD1365	Traffic Sign – Traffic Sign Support Breakaway Post Details – Two or more Supports.	Amended	<ul style="list-style-type: none"> <li>The thickness of the keeper plate for the slip base of breakaway steel sign support in Detail D on the drawing, is revised to 1.6mm and the notes are updated to reflect this material change.</li> </ul>
SD1415	Traffic Signals / Road Lighting – Circular Cable Jointing Pit Types 60 and 100	Amended	<ul style="list-style-type: none"> <li>The Standard Australia requirement had been updated to AS 1214 for hot-dip galvanised coating of bolts and nuts</li> <li>The requirement of the third label at the bottom part of the inside of a circular pit has been removed.</li> </ul>
SD1416	Traffic Signals / Road Lighting – Collar for Circular Cable Jointing Pit	Amended	<ul style="list-style-type: none"> <li>The Standard Australia requirement had been updated to AS 1214 for hot-dip galvanised coating of bolts and nuts</li> </ul>

Drawing	Title	Change Type	Description of change
SD1423	Traffic Signals – Traffic Signal Controller Base Installation Details	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1430	Road Lighting – Switchboard Pillar Mounted (Sheet 1 of 2 and Sheet 2 of 2)		
SD1440	Traffic Signals / Road Lighting – Cable Jointing Pit Rectangular Concrete Surround	Amended	<ul style="list-style-type: none"> <li>A note has been added to clarify the minimum dimensions for precast or poured insitu concrete surrounds for both rectangular and circular pits.</li> </ul>
SD1512	Bridge Barriers – Bridge Balustrade	Withdrawn	<ul style="list-style-type: none"> <li>This drawing is now a New Standard Drawing SD2204 Revision A and supersedes SD1512 Revision B, which is now withdrawn.</li> </ul>
SD1623	Road Lighting – Switchboard Typical Layout and Circuit Diagram MEN System (Sheet 1 of 2 and Sheet 2 of 2)	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1627	Road Lighting – Switchboard Top Mounted (Sheet 1 of 2 and Sheet 2 of 2)	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1636	Road Lighting – Road Lighting Symbols	Amended	<ul style="list-style-type: none"> <li>LED luminaire symbols added / updated and conduit depiction details updated in line with changes to Transport and Main Roads <i>Drafting and Design Presentation Standards Manual</i> Vol 2, Part 2, Chapter 2, 2.13 Roadway Lighting.</li> </ul>
SD1638	Road Lighting – Category 2 Advertising Devices Connected to Rate 3 Road Lighting as Alternative Point of Supply	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1679	ITS – Telecommunications Field Cabinet Base Installation Details	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1685	Traffic Signals / Road Lighting / ITS – Precast Concrete Surround for Circular Pit	Amended	<ul style="list-style-type: none"> <li>A note has been added to clarify the minimum dimensions for precast or poured insitu concrete surrounds for both rectangular and circular pits.</li> </ul>
SD1695	Traffic Signals / Road Lighting / ITS – Circular Split Pit	New	<ul style="list-style-type: none"> <li>This is a new standard drawing on split pit, which has been created in response to the need for using this type of pit in the field. The drawing specifies technical requirements and details on its installation.</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1699	Traffic Signals / Road Lighting / ITS – Parts List	Amended	<ul style="list-style-type: none"> <li>Minor administrative change.</li> </ul>
SD1709	Traffic Signals / ITS – Uninterrupted Power Supply (UPS) Base Installation Details	Amended	<ul style="list-style-type: none"> <li>The standard drawing had been updated with clearer requirements on the installation of earth electrodes with the use of 1800mm stainless-steel rods and proper separation and clamping.</li> </ul>
SD1710	Traffic Signals / ITS – Uninterrupted Power Supply (UPS) Wiring Schematic	Amended	<ul style="list-style-type: none"> <li>There was an error in the reference to part number of the UPS.</li> </ul>
SD1712	Traffic Signals / Road Lighting – Circular Mast Arm Fabrication Details	Amended	<p>The mast arm fabrication drawings are revised to align with AS 2339 (2017) and are amended as follows:</p> <ul style="list-style-type: none"> <li>references to MRTS97 were removed</li> <li>note 2 in each drawing was amended for the mast arm Type now M3C and to AS 2339, and</li> <li>for drawings SD1713, SD1714, SD1715 and SD1716 at Note 2, the lantern effective area is now 2.0m<sup>2</sup>.</li> </ul>
SD1713	Traffic Signals / Road Lighting – Circular Mast Arm Type U1 – Post Without Luminaire Spigot – Assembly and Details		
SD1714	Traffic Signals / Road Lighting – Circular Combination Mast Arm Type U2 – Post with Luminaire Spigot – Assembly and Details		
SD1715	Traffic Signals / Road Lighting – Circular Mast Arm Outreach – 2.5m, 5.0m and 6.5m – Assembly and Details		
SD1716	Traffic Signals / Road Lighting – Circular Combination Mast Arm – Luminaire Transition Piece – Assembly and Details		
SD1851	Hazard Marker – Post and Installation Details	Amended	<ul style="list-style-type: none"> <li>Correction of typing error. Australian Standard 1742.2 in Note 6 was listed as '1742.2'. Error has been amended to correctly read 'AS 1742.2' in capitals to remove ambiguity.</li> </ul>
SD2203	Bridge Traffic Barriers – Bridge Safety Rail for Pedestrian only Path (Drawing 1 of 2 and Drawing 2 of 2)	Amended	<ul style="list-style-type: none"> <li>The spigot connection is revised to improve galvanising during fabrication, and</li> <li>New Drawing 2 for all fabrication details.</li> </ul>

Drawing	Title	Change Type	Description of change
SD2204	Bridge Traffic Barriers – Bridge Balustrade for Pedestrian only Path (Drawing 1 of 2 and Drawing 2 of 2)	New	<p>TMR's bridge balustrade drawing is amended in this revision as follows:</p> <ul style="list-style-type: none"> <li>• minimum height of balustrade and maximum clear space between balusters are revised</li> <li>• the Panel type with only one post is now deleted, so that each rail shall be supported by two posts</li> <li>• the spigot connection is revised to improve galvanising during fabrication, and</li> <li>• new Drawing 2 for all fabrication details.</li> </ul> <p>This drawing is now a New Standard Drawing SD2204 Revision A and supersedes SD1512 Revision B, which will be withdrawn at this time.</p>

### **November 2021**

Drawing	Title	Change Type	Description of change
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>• Updated to ensure currency with other departmental documents. Correcting or removing references to the public domain steel barrier that has now been withdrawn for use in for Transport and Main Roads.</li> </ul>
SD1699	Traffic Signals/Road Lighting/ITS – Parts List	Amended	<ul style="list-style-type: none"> <li>• New part number 378.</li> </ul>
SD1721	Traffic Signals – Base Mounted Traffic Signals Post – Assembly and Details	Amended	<ul style="list-style-type: none"> <li>• Earth Screw detail is amended to remove the isolation washer.</li> <li>• Top of the pedestrian push button post is now to be sealed with a press on cap, for simpler fabrication.</li> <li>• Materials List is updated for the grade of stainless steel for the earth screw items, to align with AS 2339, and also amended to include the press on cap and remove the insulation washer.</li> <li>• Height of the pedestrian push button post is amended to 1600mm.</li> </ul>
SD1807	Property Access – Rural Property Access (Drawings 1 of 2 and 2 of 2)	Amended	<ul style="list-style-type: none"> <li>• Revision B changes on Drawing 1 of 2 only.</li> <li>• Table 1 Setout Dimensions descriptor for Type D updated to clearly define applicable road trains.</li> <li>• Note 4 has been amended from "Urban right-turn" to "Rural right-turn" as this drawing is applicable to rural roads only.</li> <li>• No corrections required on Drawing 2 of 2.</li> </ul>

Drawing	Title	Change Type	Description of change
SD1851	Hazard Marker – Post and Installation Details	New	<ul style="list-style-type: none"> <li>Tiger posts (black on yellow posts) are used by road maintenance crews to identify key locations within the road reserve. Currently, there is no guidance on where the posts should be installed, and maintenance personnel have requested a Standard Drawing to be developed and issued to ensure consistent application in Queensland.</li> </ul>

### **July 2021**

Drawing	Title	Change Type	Description of change
SD1240	RC Slab Deck Culvert (Drawings 1 of 4 to 4 of 4)	Amended	<ul style="list-style-type: none"> <li>Additional notes are added to the purpose statement to aid the designer when the foundation conditions of their culvert don't meet the requirements specified in the drawing</li> <li>Design bearing pressures have been reassessed</li> <li>Fish passage requirements are included</li> <li>Structural thicknesses of base slab, deck slab and wingwalls on all the drawings are revised to include exposure classifications B2, C1 and C2 to AS 5100 (2017).</li> <li>Notes are amended for the minimum concrete strength and increased cover</li> <li>Surface roughening note is added to improve worker safety</li> <li>Weephole drainage for the wingwalls is replaced with strip filter</li> <li>Wingwall footing arrangement is revised to align with to Standard Drawing 1250</li> <li>Details and notes for guardrail on base plate mounted posts and reference to the recently withdrawn suite of steel guardrail Standard Drawings have been deleted, and the Barrier Selection Criteria is amended to instead align with the requirements of "Accepted Road Safety Barrier Systems and Devices" and Transport and Main Roads Road Planning and Design Manual.</li> </ul>



Drawing	Title	Change Type	Description of change
SD1304	Pipe Culverts - Wingwalls, Headwall and Apron for Pipe Diameter 750 to 2400 (Drawings 1 of 2 and 2 of 2)	Amended	<ul style="list-style-type: none"> <li>• New typical details for the elliptical shaped reinforcement bars at the skewed pipes in the headwalls of skewed culverts are added to Drawing 2</li> <li>• Height of headwall above the pipes is amended to say nominal instead of minimum, and Note 1 reworded to indicate that the drawing is of typical details</li> <li>• Surface roughening of the aprons, by applying a broom finish, is added to improve safety</li> <li>• Improved purpose notes</li> <li>• Bearing pressure revised</li> </ul>
SD1305	Pipe Culverts - Headwall and Apron for Pipe Diameter 375 to 675	Amended	<ul style="list-style-type: none"> <li>• New typical details for the elliptical shaped reinforcement bars at the skewed pipes in the headwalls of skewed culverts are added for culverts of more than 2 pipes</li> <li>• Height of headwall above the pipes is amended to say nominal instead of minimum, and Note 1 reworded to indicate that the drawing is of typical details</li> <li>• Surface roughening of the aprons, by applying a broom finish, is added to improve safety</li> <li>• Improved purpose notes</li> <li>• Bearing pressure revised</li> </ul>
SD1415	Traffic Signals/Road Lighting - Circular Cable Jointing Pit Types 60 and 100	Amended	<ul style="list-style-type: none"> <li>• Additional details on the galvanising of the bolts, washers and nuts are specified. An additional washer was also specified to enable the existing practice of hanging the Bell Joint strap to the inside of the pit.</li> </ul>
SD1416	Traffic Signals/Road Lighting - Collar for Circular Cable Jointing Pit	Amended	<ul style="list-style-type: none"> <li>• Additional details on the galvanising of the bolts, washers and nuts are specified. A total of two (2) washers per bolt are now specified.</li> </ul>
SD1417	Traffic Signals/Road Lighting - Cable Jointing Pit Circular Pit Cover (Drawings 1 of 2 and 2 of 2)	Amended	<ul style="list-style-type: none"> <li>• <i>Drawing 1 of 2: Changes were made to remove the rivets. Additional detail added to Note 11: If an aluminium name plate is used, the plate can be attached after the non-slip coating was applied.</i></li> <li>• <i>Drawing 2 of 2: Changes were made to specify welding instead of riveting.</i></li> </ul>
SD1603	Fencing - Koala Proof Fence and Gate	Amended	<ul style="list-style-type: none"> <li>• The steel post grade is clarified, to eliminate confusion</li> <li>• Note F1 amended for the use of PVC coated wires in pedestrian and bikeway areas</li> <li>• The selvedge of chainwire is now revised to knuckled type</li> <li>• The colour of steel sheeting is no longer specified on the drawing, as this is project specific</li> <li>• Note F6 and all details now specify that the chainwire and steel sheeting shall be installed on the habitat side of the posts, that there shall be minimal gaps in fencing to prevent koalas passing through, and permission of asset owner shall be sought if attaching fence to adjacent structures</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1604	Fencing - Galvanized Welded Mesh Fencing	Amended	<ul style="list-style-type: none"> <li>The mesh is upgraded to 5mm wire and the number of clips to fix the mesh to the posts is increased to 5</li> <li>Reflective tape is added to the end posts where vehicle traffic conflict may occur</li> </ul>
SD1615	Fauna Exclusion Fencing - Floppy Top Mesh Fence and Gate (Drawings 1 of 2 and 2 of 2)	New	<ul style="list-style-type: none"> <li>New Standard Drawing 1615 has been created to provide details for the construction of floppy top mesh fence to control fauna exclusion.</li> </ul>
SD2021	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification B2 (Drawings 1 of 3 to 3 of 3)	Amended	<ul style="list-style-type: none"> <li>The pile reinforcement detailed in the suite of 550 Octagonal PSC Pile Standard Drawings are now revised to ensure compliance with AS 1500.5 (2017) requirements.</li> <li>2 optional safety features have been added to the top section of the piles at the request of piling contractors – namely pile "Headband" and pile pitching "Safety lug"</li> </ul>
SD2022	550 Octagonal PSC Piles - Earthquake Classification BEDC-1 Exposure Classification C1 and C2 (Drawings 1 of 1 to 3 of 3)		
SD2023	550 Octagonal PSC Piles - Spliced Pile Details - General Arrangement and Notes (Drawings 1 of 4 to 4 of 4)		
SD2242	Abutment Protection - Type 8 Riprap Protection - Height up to 6 metres	Amended	<ul style="list-style-type: none"> <li>The toe of the riprap protection is revised to one standardised arrangement</li> </ul>

### **March 2021**

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
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		
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.		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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 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>



Drawing	Title	Change Type	Description of change
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>
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>

Drawing	Title	Change Type	Description of change
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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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 Jointing 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 Jointing 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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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> <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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>



<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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**

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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**

<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	Withdrawn	<ul style="list-style-type: none"> <li>SD1260 supersedes SD1174, therefore SD1174 is now withdrawn.</li> </ul>

Drawing	Title	Change Type	Description of change
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 cast insitu Headwalls and Wingwalls (end structures).</li> </ul>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>



<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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**

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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> <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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1490	Steel Beam Guardrail – Installation and Setout Footing Details	Amendment	<ul style="list-style-type: none"> <li>Barrier Selection Criteria have been added 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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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> <li>Labels details added</li> <li>References updated</li> </ul>
SD1688	Road Lighting – Metered Switchboard Assembly Details – Three Phase		
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>



Drawing	Title	Change Type	Description of change
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>
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	

Drawing	Title	Change Type	Description of change
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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**

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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> </ul>

Drawing	Title	Change Type	Description of change
SD1404	Traffic signals – Mast arm anchor cage fabrication details		<ul style="list-style-type: none"> <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>
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		
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>

Drawing	Title	Change Type	Description of change
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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	Amendment	<ul style="list-style-type: none"> <li>Detail 1 updated and also Section A – post anchorages changed from bolts to threaded rods</li> </ul>
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 minimum B1 exposure class to AS 3600. All deeper pits are designed to 100 year design life with class B2 to AS 5100</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		
SD1459	Concrete Gully – Roadway Type Channel Lip In Line Anti-Ponding		
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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> <li>SD1687 – New – specifies dimensions and electrical components required for single phase metered electrical switchboards used for road lighting applications</li> <li>SD1688 – New – specifies dimensions and electrical components required for three phase metered electrical switchboards used for road lighting applications</li> </ul>
SD1687	Road Lighting – Metered Switchboard Assembly details Single Phase		
SD1688	Road Lighting – Metered Switchboard Assembly Details Three Phase		
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> <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>
SD1690	ITS – Switchboard Assembly details Pole/Top Mounted		
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>

Drawing	Title	Change Type	Description of change
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	

### 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>
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>

Drawing	Title	Change Type	Description of change
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>



Drawing	Title	Change Type	Description of change
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> <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> </li> </ul>
SD1318	R C Box Culverts & Slab Link Box Culverts - Construction of Bases with Recesses and Aprons (All sizes)		
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 Jointing 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> <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>

Drawing	Title	Change Type	Description of change
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>
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>

Drawing	Title	Change Type	Description of change
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		
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 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> </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		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
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		

Drawing	Title	Change Type	Description of change
SD4000	Precast Planks for Boat Ramp – Type RG4000 and RG3500	Amendment	<ul style="list-style-type: none"> <li>• 4000 – Correct MRTS70 concrete exposure classification (changed from C2 to C)</li> <li>• 4001 – Incorrect reference to RG style mass</li> <li>• 4020 – Reference new MRTS300 suite</li> <li>• 4021 – Reference new MRTS300 suite and remove some notes now included in MRTS300</li> <li>• 4022 – Reference new MRTS300 suite and Witness Point</li> <li>• 4023 – New Drawing for slab and joint details</li> </ul>
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		
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>

Drawing	Title	Change Type	Description of change
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>
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)		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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		
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	Amendment	<ul style="list-style-type: none"> <li>Note 1 added</li> <li>Consistency of formatting of Drawings with current Queensland Government corporate identity and validation of currency</li> </ul>

### **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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>

Drawing	Title	Change Type	Description of change
SD1295	Sign – Fingerboard, Geographical Feature and Street Name Sign Bracket Details	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>
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		



## April 2014

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		

Drawing	Title	Change Type	Description of change
SD1396	Traffic signals/Road lighting – Joint use 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		

Drawing	Title	Change Type	Description of change
SD1563	Road Furniture – Motor Grid – Cast Insitu Base Slab Drawing 1 of 2		
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>

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
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>
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		

<b>Drawing</b>	<b>Title</b>	<b>Change Type</b>	<b>Description of change</b>
SD1778	ITS IPRT Network – Tyco Eclipse controller with tophat additional GPO's via existing RCD GPO plus communications equipment		
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>