

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
All TS specifications			The style or look of each TS specification is now standardized. Adopted OPSS list (T3) no longer maintained and removed from web page.
TS 1.00	Mar 2012	Apr 2014	<p><b>Construction Specification for Maintenance of Traffic</b></p> <ul style="list-style-type: none"> <li>• Section 1.00.02 References; reference to CGSB 1 GP-181M (withdrawn by CGSB in 2011) revised to SSPC Paint 20.</li> <li>• Subsection 1.00.05.04 Site Fence; reference to CGSB 1 GP-181M (withdrawn by CGSB in 2011) revised to SSPC Paint 20.</li> <li>• Subsection 1.00.07.03 Temporary Traffic Lanes; 1<sup>st</sup> paragraph revised.</li> <li>• Clause 1.00.07.11.04.04 Schedule Maintenance and Construction Work; phone numbers and web page URL revised. Last paragraph deleted.</li> <li>• Clause 1.00.07.11.04.06 Transportation Services Representatives; work zone traffic coordinator reduced to one reference from four.</li> <li>• Subsection 1.00.07.12 Maintenance of Temporary Work; revised.</li> </ul>
TS 1.10	Nov 2009	Apr 2014	<p><b>Construction Specification for Field Office</b></p> <ul style="list-style-type: none"> <li>• Section 1.10.01 Scope; revised.</li> <li>• Section 1.10.06 Equipment; delete requirement for ASTM and CSA documents, delete telephone on private line, added printer, deleted paragraph on Type A Field Office.</li> <li>• New subsection 1.00.06.01 Separate Telephone Line, added.</li> <li>• Subsection 1.10.10.01 Field Office – Item; revised.</li> </ul>
TS 1.20	Jun 2001	Apr 2014	<p><b>Construction Specification for Garbage Collection</b></p> <ul style="list-style-type: none"> <li>• Section 1.20.01 Scope; revised.</li> <li>• Section 1.20.03 Definitions; definition for Green Bin added, Blue Box, Recyclables definitions rewritten.</li> <li>• Section 1.20.06 Equipment; rewritten.</li> <li>• Section 1.20.07 Construction; rewritten.</li> <li>• Subsection 1.20.10.01 Garbage Collection - Item; rewritten.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 2.00	Jun 2001	Apr 2014	<p><b>Construction Specification for Clearing and Grubbing of Right-of-Way</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Section 2.00.01 References; Tree Protection Policy added.</li> <li>• Section 2.00.04 Submission Requirements; new paragraph on Emerald Ash Borer beetle.</li> <li>• Subsection 2.00.09.02 Large Tree Removal; diameter of 1 m revised to 1.4 m.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 2.10	Jun 2001	Apr 2014	<p><b>Construction Specification for General Excavation</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Section 2.10.01 Scope; rewritten.</li> <li>• Section 2.10.02 References; OPSS 510 added.</li> <li>• Section 2.10.03 Definitions; definition of Excavation revised, definitions Excess Excavation and Earthen Materials added.</li> <li>• Section 2.10.04 Submission Requirements; revised.</li> <li>• Existing subsection 2.10.07.01 General; item a) and c) rewritten, item d) and j) deleted, new item h) added. 2<sup>nd</sup> and 3<sup>rd</sup> sentence deleted. Last paragraph rewritten.</li> <li>• New subsection 2.10.07.02 Existing Underground Utilities; added.</li> <li>• New subsection 2.10.07.03 Shoring, Sheet piling and Bracing; added.</li> <li>• New subsection 2.10.07.04 Excavation Method; added.</li> <li>• Existing subsection 2.10.07.02 Preparing Roadway Subgrade; renamed to Excavation and Subgrade Preparation and new subsection number of 2.10.07.05.</li> <li>• New subsection 2.10.07.06 Drainage and Dewatering, added.</li> <li>• Existing subsection 2.10.07.05 Construction of Ditches and Channels; renamed, rewritten and renumbered.</li> <li>• New subsection 2.10.07.08 Unauthorized Excavation; added.</li> <li>• Existing subsection 2.10.07.08 Backfilling of Over-excavated Areas and Voids; revised and renumbered.</li> <li>• Existing subsection 2.10.07.04 Grading of Roadway, Intersection and Entrances; deleted.</li> <li>• Existing subsection 2.10.07.06 Removal of Maintenance Items; revised and renumbered.</li> <li>• Existing subsection 2.10.07.07 Placing Fill; deleted.</li> <li>• Existing clause 2.10.07.07.01 General; deleted.</li> <li>• Existing clause 2.10.07.07.02 Moisture Content; deleted.</li> <li>• Existing clause 2.10.07.07.03 Compaction; deleted.</li> <li>• Existing subsection 2.10.07.09 Disposing of Surplus and Unsuitable Material; rewritten and renumbered.</li> <li>• New section 2.10.08 Quality Assurance; added.</li> <li>• Subsection 2.10.09.01 General Excavation; revised.</li> <li>• Subsection 2.10.10.01 General Excavation - Item; revised.</li> <li>• Subsection 2.10.10.02 Strip Topsoil and Other Organic Material from Ditches and Other Low Area - Item; revised.</li> <li>• Subsection 2.10.10.03 Place and Compact Approved Material in Ditches and Other Low Area - Item; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 2.20	Apr 2008	Apr 2014	<p><b>Construction Specification for Excavation of Track Allowance</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Section 2.20.03 Definitions; definitions for Excavation revised, Track Allowance revised 460 mm to 560mm, Foundation revised 225 mm to 280 mm.</li> <li>• Section 2.20.07 Construction; last 2 paragraphs revised.</li> <li>• Subsection 2.20.10.01 Track Allowance - Item; revised.</li> <li>• Subsection 2.20.10.03 Foundation - Item; revised.</li> </ul>
TS 3.10	Mar 2008	Apr 2014	<p><b>Construction Specification for Asphalt Heater Scarifying</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Subsection 3.10.06.02 Asphalt Heater Scarifier; 1<sup>st</sup> paragraph rewritten.</li> <li>• Subsection 3.10.07.01 Preparation; revised.</li> <li>• Subsection 3.10.07.02 Scarifying Limits; revised.</li> <li>• Clause 3.10.07.03 Placing Scarified Hot-Mix; renamed.</li> <li>• Subsection 3.10.08.02 Scarifying Depth; revised.</li> <li>• Subsection 3.10.09.01 Scarifying Asphalt; revised.</li> <li>• Subsection 3.10.09.02 Preheater; revised.</li> <li>• Subsection 3.10.10.01 Scarifying Asphalt - Item; revised.</li> <li>• Subsection 3.10.10.01 Preheater - Item; revised.</li> </ul>
TS 3.15	Mar 2008	Apr 2014	<p><b>Construction Specification for Cold Milling of Asphalt Pavement</b></p> <ul style="list-style-type: none"> <li>• Incorporated Special Provision RD402S01 into specification.</li> <li>• Section 3.15.01 Scope; revised.</li> <li>• Section 3.15.03 Definitions; added definition for Reclaimed Asphalt Pavement and Excessive Grooving added.</li> <li>• Section 3.15.06 Equipment; rewritten.</li> <li>• Section 3.15.07 Construction; rewritten.</li> <li>• Subsection 3.15.09.01 Cold Milling of Asphalt Pavement; rewritten and added pavement markings.</li> <li>• Subsection 3.15.10.01 Cold Milling of Asphalt Pavement - Item; revised and added pavement markings.</li> </ul>
TS 3.17	Jun 2001	Apr 2014	<p><b>Construction Specification for Strip Asphalt Overlain on Concrete Gutter</b></p> <ul style="list-style-type: none"> <li>• Subsection 3.17.07.02 Procedure; deleted 3<sup>rd</sup> paragraph and revised.</li> <li>• Subsection 3.17.09.01 Strip Asphalt Overlain in Concrete Gutter; revised.</li> <li>• Subsection 3.17.10.01 Strip Asphalt Overlain on Concrete Gutter; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.20	Jun 2001	Apr 2014	<p><b>Construction Specification for Tack Coat</b></p> <ul style="list-style-type: none"> <li>• Section 3.20.01 Scope; rewritten.</li> <li>• Section 3.20.02 References; OPSS 308, LS-200, LS-216, ASTM D 3665-07e1 and AASHTO T40-02 added.</li> <li>• Section 3.20.04 Submission Requirements: new paragraph added.</li> <li>• Section 3.20.05 Materials; revised.</li> <li>• Section 3.20.06 Equipment; item c) Power Unit and d) Meter revised.</li> <li>• Section 3.20.07 Construction; rewritten.</li> <li>• Section 3.20.08 Quality Assurance; rewritten.</li> <li>• Subsection 3.20.10.01 Tack Coat; rewritten.</li> </ul>
TS 3.30	Jun 2001	Apr 2014	<p><b>Construction Specification for Hot Mix Asphalt Sidewalks, Boulevards and Driveways</b></p> <ul style="list-style-type: none"> <li>• Section 3.30.01 Scope; rewritten.</li> <li>• Section 3.30.02 References; OPSS 510, OPSS 1103, TS 2.10, TS 3.20 and TS 1150 added TS 1010 revised.</li> <li>• Subsection 3.30.04.01 General; new paragraphs added.</li> <li>• Subsection 3.30.04.02 Material Safety Data Sheets; new paragraph added.</li> <li>• Subsection 3.30.05.01 Hot Mix; revised reference to TS 310 revised to TS 1150.</li> <li>• Subsection 3.30.05.02 Asphalt Emulsion; rewritten.</li> <li>• Subsection 3.30.05.03 Granular Base; revised.</li> <li>• Section 3.30.07 Construction; rewritten.</li> <li>• Subsection 3.30.10.0; revised.</li> </ul>
TS 3.40	Nov 2009	Apr 2014	<p><b>Construction Specification for Concrete Road Base</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, 7 day or 3 day replaced with 7 Day or 3 Day as day is defined term in General Conditions of Contract.</li> <li>• Section 3.40.02 References; TS 310 and ASTM C174 added, TS 1010 revised.</li> <li>• Subsection 3.40.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• New subsection 3.40.05.01 Concrete; line 4 and line 6 revised.</li> <li>• Subsection 3.40.07.04 Box-outs; 1<sup>st</sup> paragraph the word circular deleted.</li> <li>• Subsection 3.40.07.09 Joints; 3<sup>rd</sup> paragraph deleted.</li> <li>• Subsection 3.40.09.01 Concrete Road Base; revised.</li> <li>• Subsection 3.40.10.10 Concrete Road Base - Item; 1<sup>st</sup> paragraph revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.45	Nov 2009	Apr 2014	<p><b>Construction Specification for The Repair of Concrete Pavement and Base</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, 7 day or 3 day replaced with 7 Day or 3 Day as day is defined term in General Conditions of Contract.</li> <li>• Subsection 3.45.07.02 Stage Repair; deleted as already mentioned in TS 3.45.07.05 Hook Bolt Dowels.</li> <li>• Subsection 3.45.07.03 Concrete Removal; revised.</li> <li>• Subsection 3.45.07.05 Hook Bolt Dowels; revised.</li> <li>• Subsection 3.45.09.01, revised.</li> <li>• Subsection 3.45.10.01, revised.</li> </ul>
TS 3.50	Nov 2009	Apr 2014	<p><b>Construction Specification for Concrete Curb and Concrete Curb and Gutter</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, 7 day or 3 day replaced with 7 Day or 3 Day as day is defined term in General Conditions of Contract.</li> <li>• Incorporated Special Provision RD406S01 into specification.</li> <li>• Section 3.50.02 References; T-310.010-4 and T-600.11-1 added, TS 1010 and TS 1350 revised.</li> <li>• Subsection 3.50.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Subsection 3.50.05.04 Granular Base and Curb Backfill; reference to 19 mm crusher run revised to Granular A.</li> <li>• New clause 3.50.07.07.01 Monolithic Curb and Sidewalk, taken from Special Provision RD406S01.</li> <li>• Subsection 3.50.09 Identification Stamp; new paragraph added. Other subsections reordered.</li> <li>• New clause 3.50.09.02 Monolithic Curb and Sidewalk, taken from Special Provision RD406S01.</li> <li>• Subsection 3.50.10.01, revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.55	Jun 2001	Apr 2014	<p><b>Construction Specification for Brick Gutter</b></p> <ul style="list-style-type: none"> <li>• Section 3.55.02 References; TS 13.00, CAN3- A82.1 and CAN3-A82.2 deleted, CSA A82-06 added.</li> <li>• Section 3.55.04.02 Brick Gutter; last 2 paragraphs deleted.</li> <li>• Subsection 3.55.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Subsection 3.55.05.02 Bricks; reference to grade SS revised to grade S, reference to CAN3-A82.1 and A82.2 revised to CSA A82.</li> <li>• Subsection 3.55.05.04 Mortar Cushion; reference to Type 30 revised to Type HE.</li> <li>• Subsection 3.55.05.05 Grout Mix; reference to Type 30 revised to Type HE.</li> <li>• Subsection 3.55.07.03 Ramping and Protection; heading title revised, paragraph revised.</li> <li>• Clause 3.55.07.08.01 Grade; rewritten.</li> <li>• Clause 3.55.07.08.02 Cross-Fall; revised.</li> <li>• Subsection 3.55.08.01 Acceptance Sampling and Testing; rewritten.</li> <li>• Clause 3.55.08.02.02 Visual Inspection of Brick Gutter; reference to uniformly burned revised to uniformly coloured.</li> <li>• Section 3.55.10.01 Brick Gutter - Item, revised.</li> </ul>
TS 3.65	Nov 2009	Apr 2014	<p><b>Construction Specification for Concrete Crosswalk</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, 7 day or 3 day replaced with 7 Day or 3 Day as day is defined term in General Conditions of Contract.</li> <li>• Section 3.65.02 References; TS 920 deleted, OPSS 180 added, TS 1010 and TS 1350 revised.</li> <li>• Subsection 3.65.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Subsection 3.65.05.03 Granular Base and Backfill; reference to OPSS 1010 revised to TS 1010.</li> <li>• Subsection 3.65.07.01 Excavation; revised.</li> <li>• Subsection 3.65.09.01 Concrete Crosswalk; revised.</li> <li>• Subsection 3.65.10.01 Concrete Crosswalk - Item; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.70	Nov 2009	Apr 2014	<p><b>Construction Specification for Concrete Sidewalk and Concrete Raised Median</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, 7 day or 3 day replaced with 7 Day or 3 Day as day is defined term in General Conditions of Contract.</li> <li>• Section 3.70.02 References; T-310.010-2, T-310.010-3, T-310.010-4, T-310.020 deleted, T-310.010-1, T-310.01-5, T-310.010-6, T-310.010-7, T-310.030-7, T-310.030-8, T-310.030-9, T-310.030-10, T-310.030-11 ASTM A 48, C 174, C 1028, C 501-84, CSA B651 added, TS 1010 and TS 1350 revised.</li> <li>• Subsection 3.70.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Subsection 3.70.05.03 Granular Base and Backfill; reference to OPSS 1010 revised to TS 1010.</li> <li>• New subsection 3.70.05.05 Tactile Walking Surface Indicators, added.</li> <li>• Clause 3.70.07.01.02 Sidewalk; rewritten.</li> <li>• Subsection 3.70.07.03 Granular Base; revised.</li> <li>• Subsection 3.70.07.06 Utility Isolation; reference to T-310.010-4 revised to T-310.010-5</li> <li>• Subsection 3.70.07.07 Reinforcement; revised.</li> <li>• Clause 3.70.07.11.01 General; deleted. Other subsections reordered.</li> <li>• Clause 3.70.07.11.02 Contraction Joints; rewritten.</li> <li>• Clause 3.70.07.11.03 Expansion Joints; 3<sup>rd</sup> paragraph revised, reference to T-310.010-4 revised to T-310.010-1.</li> <li>• Subsection 3.70.07.15 Ramps; revised.</li> <li>• New clause 3.70.07.15.01 Tactile Walking Surfaces; added.</li> <li>• Subsection 3.70.09.01; revised.</li> <li>• New subsection 3.70.09.02 Tactile Walking Surface Indicator; added.</li> <li>• Subsection 3.70.10.01 Concrete Sidewalk - Item; 1<sup>st</sup> paragraph revised.</li> <li>• Subsection 3.70.10.02 Concrete Raised Median - Item; 1st paragraph revised.</li> <li>• New subsection 3.70.10.02 Tactile Walking Surface Indicator - Item; added.</li> <li>• New Table 1</li> <li>• Existing Table 1 now Table 2</li> </ul>



TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.75	Nov 2009	Apr 2014	<p><b>Construction Specification for Streetcar Track Pavement and Foundation Slab</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Section 3.75.03 Definitions; Track Allowance revised 460 mm to 560 mm, Foundation revised 225 mm to 280 mm.</li> <li>• Subsection 3.75.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• New subsection 3.75.05.01 Concrete; rewritten.</li> <li>• Existing subsection 3.75.05.03 Admixtures and Additives; rewritten.</li> <li>• Existing subsection 3.75.05.04 Curing of Concrete Samples; rewritten.</li> <li>• New subsection 3.75.05.05 Bond Breaker; added.</li> <li>• Subsection 3.75.07.04 Granular Base Placement; reference to OPSS 1010 revised to TS 1010.</li> <li>• Subsection 3.75.07.05 Utility Adjustment; rewritten.</li> <li>• Subsection 3.75.07.06 Placing Concrete; rewritten.</li> <li>• Clause 3.75.07.06.01 Foundation Slab, reference to 225 mm thick lift revised to 280 mm thick lift.</li> <li>• New subsection 3.75.08.01 Frequency of Field Testing and Sampling; added.</li> <li>• New subsection 3.75.08.02 Concrete Thickness; added.</li> <li>• New subsection 3.75.08.03 Compressive Strength; added.</li> <li>• New Table 1, Table 2 and Table 3</li> <li>• Section 3.75.09 Measurement for Payment; revised.</li> <li>• Section 3.75.10 Basis of Payment; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.80	Nov 2010	Apr 2014	<p><b>Construction Specification for Concrete Unit Pavers</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Section 3.80.02 References; TS 1860 deleted, T-310.020-2, T-310.050-2, T-561.030-1, T-561.030-2 and OPSS 1860 added, TS 1010 and TS 1350 revised.</li> <li>• Subsection 3.80.05.01 Granular Subbase; 19 mm crusher run deleted.</li> <li>• Subsection 3.80.05.03 Granular Base; reference to 19 mm crusher run revised to Granular A. Table deleted.</li> <li>• Subsection 3.80.05.07 Stone; 2<sup>nd</sup> sentenced deleted.</li> <li>• Clause 3.80.07.02.02 Concrete Base; 3<sup>rd</sup> paragraph, reference to 250 mm long revised to 400 mm long.</li> <li>• Subsection 3.80.07.03 Bedding; reference to 20 to 30 mm revised to 10 to 20 mm.</li> <li>• Subsection 3.80.10.01 Unit Pavers - Item; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.85	May 2003	Apr 2014	<p><b>Construction Specification for Coloured Impressed Concrete</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Section 3.85.02 References; OPSS 180, OPSS 1860, ASTM C171, TS 1350 and T-560.040-1 added, TS 1010 revised.</li> <li>• Section 3.85.03 Definitions; definition TS deleted.</li> <li>• Subsection 3.85.05.01 Concrete; reference to TS 13.00 revised to TS 1350. Type 10 Normal Portland revised to Normal Portland GU.</li> <li>• Clause 3.85.05.03.03 Evaporation Reducer; Confilm product renamed to MasterKure ER50, still same product.</li> <li>• Subsection 3.85.05.04 Granular Base and Backfill; reference to 19 mm crusher run revised to Granular A.</li> <li>• Subsection 3.85.05.05 Expansion Joint Material; reference to TS 13.00 revised to TS 1350.</li> <li>• Subsection 3.85.06.02 Boxouts; revised, boxouts should be used.</li> <li>• Subsection 3.85.07.10.03 Polyethylene Film; last sentence in paragraph deleted.</li> <li>• Subsection 3.85.08.01 General; reference to TS 13.00 revised to TS 1350.</li> <li>• Existing Subsection 3.85.08.02 Guarantee; deleted.</li> <li>• Subsection 3.85.09.01 Coloured Impressed Concrete Sample; rewritten.</li> <li>• Subsection 3.85.10.01 Concrete Impressed Concrete Sample - Item; revised.</li> <li>• Subsection 3.85.10.02 Concrete Impressed Concrete - Item; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 3.90	Mar 2008	Apr 2014	<p><b>Construction Specification for Crack Repair</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Section 3.90.02 References; OPSS 1212, TS 1103 and TS 1150 added.</li> <li>• Section 3.90.03 Definitions; definition TS deleted.</li> <li>• Section 3.90.04 Submission Requirements; OPSS 1212 added</li> <li>• Clause 3.90.05.02.01 HL-8(HS) Asphalt; reference to TS 310 revised to TS 1150.</li> <li>• Clause 3.90.05.02.02 SS-1 Emulsion; reference to TS 310 revised to TS 1103.</li> <li>• Clause 3.90.07.02.02 Concrete Base Repair; 2<sup>nd</sup> paragraph deleted.</li> <li>• Clause 3.90.07.02.03 Asphalt Paving; reference to SS-1H revised to SS-1.</li> <li>• Subsection 3.90.10.01, revised.</li> <li>• Subsection 3.90.10.02, revised.</li> <li>• Subsection 3.90.10.03, revised.</li> </ul>
TS 4.50	May 2003	Apr 2014	<p><b>Construction Specification for Utility Adjustments</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator.</li> <li>• Incorporated special provision GN120S01 into this specification.</li> <li>• Section 4.50.01, Scope; rewritten.</li> <li>• Section 4.50.02, References; TS 1350 and OPSS 1004 added. TS 4.00 deleted. CSA A82.1-M87 and CSA A82.2-M78 withdrawn and revised to CSA A82-06(20011).</li> <li>• Subsection 4.50.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Existing subsection 4.50.05.04 Precast Adjustment Units; revised.</li> <li>• Existing subsection 4.50.05.05 Adjustment Brick; revised.</li> <li>• Subsection 4.50.07.01 General; all paragraphs rewritten.</li> <li>• Clause 4.50.07.02.01 General; last paragraph written.</li> <li>• New subsection 4.50.07.04 Concrete Extension; added.</li> <li>• Section 4.50.08 Quality Assurance; 1<sup>st</sup> sentence revised reference to TS 13.00 to TS 1350. 3<sup>rd</sup> sentence rewritten. 6<sup>th</sup> paragraph rewritten.</li> <li>• Subsection 4.50.09.01 Adjust Catchbasin, Maintenance Hole and Valve Chambers; title revised.</li> <li>• Subsection 4.50.10.01 Adjust Catchbasin, Maintenance Hole and Valve Chambers; title revised. All paragraphs rewritten.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 4.60	Jun 2010	Apr 2014	<p><b>Construction Specification for Utility Cut and Restoration</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, title of specification referenced removed since it is defined in References section.</li> <li>• Section 4.60.03 Definitions; Tree Protection Zone definition revised.</li> <li>• Subsection 4.60.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Clause 4.60.07.02.02 Excavation; 2<sup>nd</sup> paragraph under heading Protection of Excavation rewritten.</li> <li>• Section 4.60.07.03 Temporary Repair; “unless otherwise specified” deleted in 1<sup>st</sup> and 2<sup>nd</sup> paragraph.</li> <li>• Clause 4.60.07.04.06 Permanent Restoration of Cuts in Sodded Areas; revised.</li> </ul>
TS 4.70	Nov 2007	Apr 2014	<p><b>Construction Specification for Keyhole Excavation and Permanent Reinstatement of Keyhole Cores</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, title of specification referenced removed since it is defined in References section.</li> <li>• Section 4.70.02 References; ASTM C39, C109, C266, C531, C666A, C666B, C882 and AASHTO H-25 added.</li> <li>• Section 4.70.03 Definitions; Applicant and Unshrinkable Fill definitions revised. General Manager added.</li> <li>• Subsection 4.70.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• Existing subsection 4.70.05.03 Unshrinkable Fill as Backfill Material; 1<sup>st</sup> paragraph rewritten.</li> <li>• Existing subsection 4.70.05.04 Imported Granular as Backfill Material; revised.</li> <li>• Subsection 4.70.06.01 Supply of Equipment; deleted.</li> <li>• Subsection 4.70.07.02 Keyhole Coring; revised.</li> <li>• Subsection 4.70.07.03 Backfilling; revised.</li> <li>• Section 4.70.09 Measurement for Payment; rewritten.</li> <li>• Section 4.70.10 Basis of Payment, revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 5.00	Sep 2007	Apr 2014	<p><b>Construction Specification for Sodding</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, City renamed to Contract Administrator.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Section 5.00.02 References; OPSS 572 deleted.</li> <li>• Subsection 5.00.04.01 Delivery and Storage; new.</li> <li>• Subsection 5.00.05.01 Nursery Sod; rewritten.</li> <li>• Subsection 5.00.05.02 Sod Stakes; rewritten.</li> <li>• Subsection 5.00.05.03 Fertilizer; revised.</li> <li>• Subsection 5.00.05.04 Water; revised.</li> <li>• Subsection 5.00.05.06 Herbicide; new.</li> <li>• Subsection 5.00.07.01 Workmanship; heading revised and subsection rewritten.</li> <li>• Subsection 5.00.07.02 Preparation of Topsoil Substrate; heading revised and subsection written.</li> <li>• Subsection 5.00.07.03 Fertilizer Application on Topsoil; deleted.</li> <li>• Existing subsection 5.00.07.04 Sod Placement; heading revised and subsection rewritten.</li> <li>• New subsection 5.00.07.03 Layering of Pegged Sod; new</li> <li>• Existing subsection 5.00.07.05 Maintenance of Completed Sod; heading revised and subsection rewritten.</li> <li>• Existing clause 5.00.07.05.01 Watering; deleted.</li> <li>• Existing clause 5.00.07.05.02 Weed Removal; deleted.</li> <li>• Existing clause 5.00.07.05.03 Fertilizer Application on Completed Sod; deleted.</li> <li>• Existing clause 5.00.07.05.04 Cleanup; deleted.</li> <li>• Subsection 5.00.08.01 Performance Measures; revised.</li> <li>• Subsection 5.00.09.01 Nursery Sod; revised.</li> <li>• Subsection 5.00.09.02 Nursery Sod and Stakes; revised.</li> <li>• Subsection 5.00.09.03 Nursery Sod, Stakes and Mesh; revised.</li> <li>• Subsection 5.00.10.01; revised.</li> </ul>
TS 5.10	Jun 2001	Apr 2014	<p><b>Construction Specification for Growing Medium</b></p> <ul style="list-style-type: none"> <li>• Title of specification; topsoil revised to growing medium.</li> <li>• All sections rewritten.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 5.20	Jun 2001	Apr 2014	<p><b>Construction Specification for Direct Seeding</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, City renamed to Contract Administrator.</li> <li>• Throughout specification, "shall meet the requirements of" and "in accordance with" replaced with "shall be according to".</li> <li>• Subsection 5.20.05.06 Mulch Blanket; rewritten.</li> <li>• Subsection 5.20.07.05 Seeding; last paragraph revised.</li> <li>• Subsection 5.20.07.08 Maintenance; throughout this subsection, "The contractor shall" deleted.</li> <li>• Subsection 5.20.09.01 Direct Seeding; revised.</li> <li>• Subsection 5.20.10.01 Direct Seeding - Item; revised.</li> </ul>
TS 5.30	n/a	Apr 2014	<p><b>Construction Specification for Planting</b></p> <ul style="list-style-type: none"> <li>• New specification.</li> </ul>
TS 9.00	Feb 2008	Apr 2014	<p><b>Specification for Surface Sealing for Structural Concrete</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, "shall meet the requirements of" and "in accordance with" replaced with "shall be according to".</li> <li>• Throughout specification, "as specified" replaced with "according to".</li> <li>• Throughout specification, "unless otherwise specified" deleted.</li> <li>• Section 9.00.02 References; TS 929 deleted, OPSS 929 added.</li> <li>• Section 9.00.07 Construction; 4<sup>th</sup> paragraph, reference to TS 929 revised to OPSS 929.</li> <li>• Section 9.00.08 Quality Assurance; revised.</li> <li>• Subsection 9.00.09.01 Surface Sealing for Structural Concrete; rewritten.</li> <li>• Subsection 9.0010.01 Surface Sealing for Structural Concrete - Item; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 13.10	Nov 2009	Apr 2014	<p><b>Specification for Unshrinkable Fill</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, “as specified” replaced with “according to”.</li> <li>• Throughout specification, “unless otherwise specified” deleted.</li> <li>• Section 13.10.01 Scope; revised.</li> <li>• Subsection 13.10.05.01 Supply of Materials; deleted. Other subsections reordered.</li> <li>• New subsection 13.10.05.01 Unshrinkable Fill; Minimum 28 day cylinder compressive strength of 0.4 MPa added.</li> <li>• New subsection 13.10.06.01 Mixing Equipment; added.</li> <li>• New subsection 13.10.06.02 Transport and Discharge Equipment; added.</li> <li>• Existing subsection 13.10.06.01 Discharge Equipment deleted.</li> <li>• Subsection 13.10.07.04 Unshrinkable Fill Protection; revised.</li> <li>• Subsection 13.10.08.01 Acceptance Sampling and Testing; revised.</li> <li>• Subsection 13.10.09.01 Unshrinkable Fill; revised.</li> <li>• Subsection 13.10.10.01 Unshrinkable Fill - Item; revised.</li> </ul>
TS 206	Jun 2001	Apr 2014	<p><b>Amendment to OPSS 206 (Nov 2010) – Construction Standards for Grading</b></p> <ul style="list-style-type: none"> <li>• Throughout amendment, Commissioner renamed to Contract Administrator or City.</li> </ul>



TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 310	Jan 2004	Apr 2014	<p><b>Construction Specification for Hot Mixed, Hot Laid Asphaltic Concrete Paving</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator or City.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout specification, business days renamed to Working Days.</li> <li>• Throughout specification, Form of Tender renamed to Pricing Form.</li> <li>• Section 310.03 Definitions; Business Day deleted.</li> <li>• Section 310.04 Design and Submission Requirements; revised.</li> <li>• Subsection 310.05.02 Tack Coating Material; 2<sup>nd</sup> sentence deleted.</li> <li>• New clause 310.06.01.01 Mechanical Pavers; added.</li> <li>• New clause 310.06.01.02 Blade Graders; added.</li> <li>• New clause 310.06.01.03 Rakes; added.</li> <li>• New clause 310.06.02.01 Classification of Rollers; added.</li> <li>• New clause 310.06.02.02 Requirements for All Rollers; added.</li> <li>• New clause 310.06.02.03 Requirements for Steel-Tired Rollers; added.</li> <li>• New clause 310.06.02.04 Requirements for Pneumatic-Tired Rollers; added.</li> <li>• New clause 310.06.02.05 Requirements for Vibratory Rollers; added.</li> <li>• Clause 310.07.01.02 Preparation of Foundation, Existing Pavement and Shouldering; item (a), (c) and (d) revised.</li> <li>• Clause 310.07.01.04 Transportation of the Hot Mix; revised.</li> <li>• Clause 310.07.01.05 Hot Mix Padding; revised.</li> <li>• Clause 310.07.01.06 Hot Mix Patching; 1<sup>st</sup> sentence deleted.</li> <li>• Clause 310.07.01.08 Use of Paving Equipment; 1<sup>st</sup> advisory note and paragraph revised.</li> <li>• Clause 310.07.01.11.02 Rolling; revised.</li> <li>• Subsection 310.07.02 Crack Repair; 1<sup>st</sup> sentence revised.</li> <li>• Subsection 310.07.04 Milling Existing Asphalt Pavement; 1<sup>st</sup> sentence revised.</li> <li>• Clause 310.09.01.01 Methods of Measurement; 1<sup>st</sup> and 3<sup>rd</sup> paragraph revised.</li> <li>• Subsection 310.10.01; 1<sup>st</sup> paragraph rewritten.</li> </ul>
TS 405	Jun 2001	Apr 2014	<p><b>Amendment to OPSS 405 (Feb 1990) – Construction Specification for Pipe Subdrains</b></p> <ul style="list-style-type: none"> <li>• Amendment revised to current OPSS 405 (Nov 2008).</li> <li>• Clause 405.07.06.03 General; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 501	Jun 2001	Apr 2014	<b>Amendment to OPSS 501 (Apr 2013) – Construction Specification for Compacting</b> <ul style="list-style-type: none"> <li>• All existing clauses deleted.</li> <li>• Entire amendment rewritten.</li> </ul>
TS 506	Jun 2001	Cancel	<b>Amendment to OPSS 506 (Nov 2011) – Construction Specification for Dust Suppressants</b> Adopt OPSS 506 (Nov 2013)
TS 511	Jun 2001	Cancel	<b>Amendments to OPSS 511 (FEB 90) – Construction Specification for Rip Rap, Rock Protection and Gravel Sheeting</b> Adopt OPSS 511 (April 2011).
TS 512	Jun 2001	Cancel	<b>Amendment to OPSS 512 (Apr 2011) – Construction Specification for Installation of Gabions</b> Adopt OPSS 512 (Nov 2013).
TS 541	Jun 2001	See TS 722	<b>Amendment to OPSS 541 (Nov 2005) – Construction Specification for Chain Link Fence</b> OPSS 541 is renumbered to OPSS 772. Cancel TS 541 and see TS 772.
TS 577	Jun 2001	Cancel	<b>Amendments to OPSS 577 (FEB 96) – Construction Specification for Temporary Erosion and Sediment Control Measures</b> OPSS 577 is renumbered to OPSS 805 Adopt OPSS 805 (Nov 2010).
TS 772	- - -	Apr 2014	<b>Amendments to OPSS 772 (Nov 2012) – Construction Specification for Chain Link Fence</b> <ul style="list-style-type: none"> <li>• Amendment revised to current OPSS 772 (Nov 2012).</li> </ul>
TS 1003	Jun 2001	Apr 2014	<b>Material Specification for Aggregates Hot Mixed, Hot Laid Asphaltic Concrete</b> <ul style="list-style-type: none"> <li>• Throughout specification, City renamed to Contract Administrator.</li> <li>• Throughout specification, business days renamed to Working Days.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”</li> <li>• Section 1003.02 References; SP 110F12 cancelled in May 20, 2010 and replaced with OPSS 1003. OPSS 1003 added</li> <li>• Section 1003.03 Definitions; Advisory Clause added.</li> <li>• Subsection 1003.04.03 Test Data; revised.</li> <li>• Subsection 1003.05.01 General; 2<sup>nd</sup> paragraph revised.</li> <li>• Subsection 1003.07.01 Aggregate Processing, Handling and Stockpiling; revised.</li> <li>• Subsection 1003.07.02 Quality Control; revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 1010	May 2004	Apr 2014	<p><b>Amendments to OPSS 1010 (APR 04) – Material Specification for Aggregates - Base, Subbase, Select Subgrade and Backfill Material</b></p> <ul style="list-style-type: none"> <li>• 19 mm crusher run limestone deleted.</li> <li>• Incorporate Special Provision GN124S01 into this amendment specification.</li> <li>• Section 1010.03 Definitions; Granular A RCM, Granular A RAP and 50 mm crushed aggregate added.</li> <li>• New subsection 1010.04.02 Submission of RCM Test Data; added.</li> <li>• New clause 1010.05.02.01 Granular A RCM; added.</li> <li>• New clause 1010.05.02.02 Granular A RAP; added.</li> <li>• New clause 1010.05.03.06 50 mm Crushed Aggregate; added.</li> <li>• Clause 1010.07.02.01 General; revised.</li> <li>• Table 1; note b revised.</li> <li>• Table 3; new row added.</li> <li>• Table 4; new row added.</li> </ul>
TS 1101	Jun 2001	Apr 2014	<p><b>Material Specification for Performance Graded Asphalt Cement (PGAC) &amp; Performance Graded Asphalt Cement with Elastic Recovery (PGAC-E)</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator or City.</li> <li>• Throughout specification, business days renamed to Working Days.</li> <li>• Throughout specification, Form of Tender renamed to Pricing Form.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”</li> <li>• Section 1101.02 References; SP 111S08 cancelled in June 26, 2007 and replaced with SP 111S09 which was cancelled on January 19, 2012 and replaced with SP 111F09 by Ministry of Transportation.</li> <li>• Section 1101.03 Definitions; Advisory Clause added.</li> <li>• Subsection 1101.04.05 Quality Control Plan; removed “as a minimum” from 3<sup>rd</sup> paragraph.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 1150	Nov 2006	Apr 2014	<p><b>Material Specification for Hot mixed, Hot Laid Asphaltic Concrete</b></p> <ul style="list-style-type: none"> <li>• Throughout specification, Commissioner renamed to Contract Administrator or City.</li> <li>• Throughout specification, business days renamed to Working Days.</li> <li>• Throughout specification, Form of Tender renamed to Pricing Form.</li> <li>• Throughout specification, “shall meet the requirements of” and “in accordance with” replaced with “shall be according to”.</li> <li>• Section 1150.03 Definitions; Advisory Clause added.</li> <li>• Subsection 1150.04.01 Submissions; revised.</li> <li>• Subsection 1150.05.01 Supply of Materials; 1<sup>st</sup> sentence deleted.</li> <li>• Subsection 1150.05.02 heading title shorten.</li> <li>• Clause 1150.05.07.02 heading title shorten.</li> <li>• Clause 1150.06.02.02 heading title shorten.</li> <li>• Clause 1150.06.02.05 heading title shorten.</li> <li>• Clause 1150.06.04.02 heading title shorten.</li> <li>• Clause 1150.06.04.04 Mix Discharge Control; 3<sup>rd</sup> and 4<sup>th</sup> paragraph revised.</li> <li>• Table 3 revised.</li> </ul>

TS No.	Superseded (Remove)	Revised/New (Insert)	Remarks
TS 1350	Nov 2010	Apr 2014	<p><b>Amendments to OPSS.MUNI 1350 (NOV 08) – Material Specification for Concrete – Materials and Production</b></p> <ul style="list-style-type: none"> <li>• Throughout amendment, Commissioner renamed to Contract Administrator or City.</li> <li>• Throughout amendment, business day renamed to Working Days.</li> <li>• Throughout amendment, Form of Tender renamed to Pricing Form.</li> <li>• Throughout amendment, “shall meet the requirements of”, “as per” and “in accordance with” replaced with “shall be according to”.</li> <li>• Throughout amendment, Portland Cement revised to Portland cement.</li> <li>• Incorporate Special Provision RD405S01 into this amendment specification.</li> <li>• Section 1350.01 Scope; revised.</li> <li>• Section 1350.02 References; TS 3.45, OPSS 904 and OPSS 1860 added. CSA G30.3, G30.5, G30.18, G40.21, TS 904, TS 905 and TS 1860 deleted. ASTM C457 and C1064 added. CSA A3000 and A23.1 added.</li> <li>• Subsection 1350.05.01 Materials for Concrete; 1<sup>st</sup> sentence after Table A deleted.</li> <li>• Clause 1350.05.01.01 Cementing Materials; 1<sup>st</sup> and 5<sup>th</sup> sentence revised.</li> <li>• Clause 1350.05.03.03 Joint Filler; 1<sup>st</sup> sentence revised.</li> <li>• Subsection 1350.07.02 Temperature Control; TS 904 revised to OPSS 904.</li> <li>• Subsection 1350.08.03.01 Frequency of Field Sampling and Testing; revised.</li> <li>• Existing section 1350.10 Payment and Warranty; deleted.</li> <li>• Existing section 1350.09 Acceptance now is section 1350.10 Acceptance; revised.</li> <li>• New subsection 1350.10.03 Small Lot Acceptance; added.</li> <li>• Existing section 1350.10 Payment and Warranty now is section 1350.11 Payment and Warranty; revised.</li> <li>• New subsection 1350.11.01 Small Lot Price Adjustment; added.</li> <li>• Table A; revised.</li> <li>• Table C; new.</li> <li>• Table D; new.</li> <li>• Table E; new.</li> </ul>
TS 1860	Jun 2001	Cancel	<p><b>Amendments to OPSS 1860 (MAR 98) – Material Specification for Geotextiles</b> Adopt OPSS 1860 (Nov 2010).</p>
TS 2501	Jun 2001	Cancel	<p><b>Amendments to OPSS 2501 (MAY 94) – Material Specification for Calcium Chloride Flake and Solution</b> Adopt OPSS 2501 (Nov 2011).</p>

