

**City of Toronto Construction Standards for Sewers and Watermains
Revision Information No. 7 - November 2010**

NUMBER	DATE	REMARKS
TS 4.01	Nov 2010	New Specification: Construction Specification for Temporary Sewer Bypass
Watermain Appurtenance Material Specification	Sept 2008	In the NOV 2010 release, the Watermain Appurtenance Material Specification was removed from the City standards because it has been included in the Design Manual
TS 7.60	MAY 2006	In NOV 2010 release, TS 7.60 became part of the City Standards (Specification for the Cleaning and Cured-in-place-pipe (CIPP) Lining of Cast and Ductile Iron Watermains).
TS 408	NOV 2010	Minor revision, not related to technical information.
TS 409	NOV 2010	Minor revision, not related to technical information.
TS 410	NOV 2010	Minor revision, not related to technical information.
TS 412	NOV 2010	Minor revision, not related to technical information.
TS 415	NOV 2010	Minor revision, not related to technical information.
TS 416	NOV 2010	Minor revision, not related to technical information.
TS 493	NOV 2010	Amendments to OPSS 493 (NOV 2009) - Construction Specification for Temporary Potable Water Supply Services: - Flushing and Disinfecting Temporary Watermains and Services to be as per TS 7.30
TS 510	NOV 2010	Amendments to OPSS 510 (NOV 2009) - Construction Specification for Removal: - Various amendments throughout the specification.
TS 514	NOV 2010	Amendments to OPSS 514 (NOV 2009) -Construction Specification for Trenching, Backfilling and Compacting: - Embedment material is 19mm crusher run compacted to 95% Proctor density. - Added unshrinkable fill to the list of cover and backfill materials.
TS 515	NOV 2010	Minor revision, not related to technical information.
TS 518	NOV 2010	Minor revision, not related to technical information.
TS 701	NOV 2010	Amendments to OPSS 701 (Nov 2009) -Construction Specification for Watermain Installation in Open Cut - The Contractor shall not be entitled to any extension of time nor any additional compensation as a result of a delay caused by failed bacteriological and water quality testing - Reminder: the "Watermains" item also includes the supply and installation of tracer wire - Reminder: Cathodic protection of all new ductile iron watermains and metallic components of non-metallic watermains is paid either separately or as a part of the "watermain" item
TS 1802	NOV 2010	Minor revision, not related to technical information.

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OPSS 503	NOV 2009	Adopted the NOV 2009 version of OPSS 503 (Construction Specification for Site Preparation for Pipelines, Utilities, and Associated Structures)
OPSS 504	NOV 2009	Adopted the NOV 2009 version of OPSS 504 (Construction Specification for Preservation, Protection and Reconstruction of Existing Facilities)
OPSS 507	NOV 2005	Adopted the NOV 2009 version of OPSS 507 (Construction Specification for Site Restoration Following Installation of Pipelines, Utilities, and Associated Structures)
OPSS 538	NOV 2005	Nov 2005 version of OPSS 538 (Construction Specification for Support Systems) has been adopted
OPSS 539	NOV 2009	Nov 2009 version of OPSS 539 (Construction Specification for Temporary Protection Systems) has been adopted
OPSS 1810	DEC 1983	Material Specification for Clay Pipe has been removed from the list of City adopted OPS specifications as clay pipe is not in use anymore
OPSS 1830	DEC 1983	Material Specification for Asbestos-Cement Pipe has been removed from the list of City adopted OPS specifications as asbestos cement pipe is not in use any more.
T-701.021	Nov 2010	Maintenance Hole Benching Details and Sizing Revised Jun 2001 version - Title changed
T-705.040	NOV 2010	Precast Concrete Catch Basin Ditch Inlets 600mm x 1200mm x Depth 4.0m Max. Revised Jun 2001 version - Referenced standards revised
T-708.04	Jan 2004	Deleted "Bedding for Plastic Water Pipes" drawing because other City adopted OPSD's already provide this information
T-802.032-1	Nov 2010	Concrete Bedding Details for Concrete Pipes Revised Jun 2001 version - title changed - removed AC and clay pipe
T-1104.01	NOV 2010	Standard Water Service Connection Details 19mm and 25mm Diameter Sizes - Revised Jan 2004 version to clarify tapping on old and new watermains
T-1104.03	NOV 2010	25mm Blow-Off Assembly Detail Revised Jun 2001 version - Referenced standards revised
T-1106.06	NOV 2010	Cathodic Protection on Short Sections of Ductile Iron Watermains Revised Jan 2004 version - Referenced standards revised
T-1108.01-1	NOV 2010	Water Meter Chamber for 75mm or Greater Private Water Service Pipe Revised Feb 2006 version - Referenced standards revised
OPSD 400.082	NOV 2009	Cast iron, raised curb inlet frame with cover for catch basins out of roadway - In Nov 2010 release, adopted Nov 2009 version (minor difference between Nov 2007 and Nov 2009 versions)
OPSD 402.030	NOV 2009	Cast iron, rectangular frame with two piece cover for meter and valve chambers - In Nov 2010 release, adopted Nov 2009 version (minor difference between Nov 2007 and Nov 2009 versions)

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OPSD 701.030	NOV 2009	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1200 mm DIAMETER, TAPERED TOP AND FLAT CAP" - in Nov 2010 release, replaced 1996 version with the Nov 2009 version
OPSD 701.031	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1200 mm DIAMETER, RISER AND MONOLITHIC BASE
OPSD 701.032	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1200 mm DIAMETER, BASE SLAB
OPSD 701.040	NOV 2009	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1500 mm DIAMETER, TRANSITION CONE AND SLABS - in Nov 2010 release, replaced 1996 version with the Nov 2009 version
OPSD 701.041	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1500 mm DIAMETER, RISER AND BASES
OPSD 701.050	NOV 2009	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1800 mm DIAMETER TRANSITION SLABS - in Nov 2010 release, replaced 1996 version with the Nov 2009 version
OPSD 701.051	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 1800 mm DIAMETER RISER AND BASE SLAB
OPSD 701.060	NOV 2009	PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 2400 mm DIAMETER TRANSITION SLAB - in Nov 2010 release, replaced 1996 version with the Nov 2009 version
OPSD 701.061	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE MAINTENANCE HOLE COMPONENTS, 2400 mm DIAMETER RISER AND BASE SLAB
OPSD 703.011	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE SINGLE INLET FLAT CAP, 1500 mm DIAMETER
OPSD 703.012	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE SINGLE INLET FLAT CAP, 1800 mm DIAMETER
OPSD 703.013	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE SINGLE INLET FLAT CAP, 2400 mm DIAMETER
OPSD 703.021	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE TWIN INLET FLAT CAP, 1500 mm DIAMETER
OPSD 703.022	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE TWIN INLET FLAT CAP, 1800 mm DIAMETER
OPSD 703.023	NOV 2009	In Nov 2010 release, adopted PRECAST CONCRETE TWIN INLET FLAT CAP, 2400 mm DIAMETER