

UPDATE TO MUNICIPAL SERVICING & DESIGN STANDARDS

What are Municipal Standards?

- Creates a Benchmark and Guide for Development and Reconstruction projects
- Ensures the use of specific approved construction materials
- Ensures fulfillment of necessary Approvals and Government policies. (Town, County, MOECC, MTO, MVCA, SVCA, etc.)

Why are they Important?

- Ensures consistency throughout Municipality when development occurs
- Allows for ease of development by clearly outlining design expectations
- Allows quicker submission turn-around by Municipal Staff
- Results in lower development review charges to developers



What's Included?

Design Criteria and Installation Procedures for;

- Roads and Drainage
- Sanitary Sewers
- Watermain
- Lot Grading
- Utilities
- Street lighting
- Landscaping
- Other Related Specifications

Summary of Major Updates

- Update to the general requirements and expectations for the site plan approval process
- The addition of 16 standardized drawings
- A list of all applicable Ontario Provincial Standard and Town of Minto Standard drawings
- A list of acceptable infrastructural products and materials

Standard Drawings List

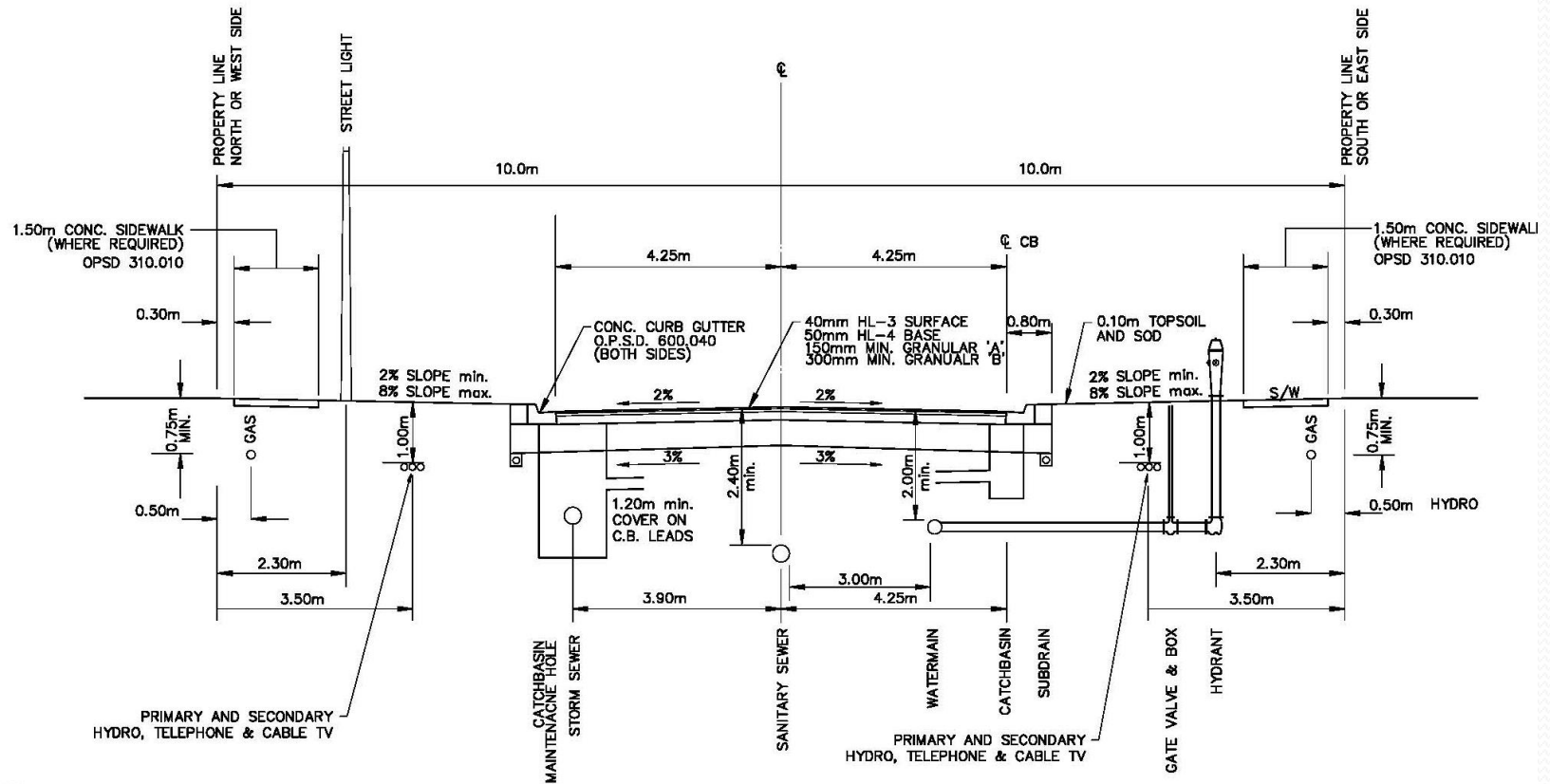
TITLE	ONTARIO PROVINCIAL STANDARD DRAWING	Town of Minto STANDARD	REVISIONS AND UPDATES
Pipe Bedding-Granular 'A' Cover Material-Granular 'A' or sand	802.010, 802.013, 802.030 to 802.033.		
M.H. Frame and Cover a) Standard-Sanitary b) Standard-Storm c) Watertight-Sanitary	401.010 (Type "A") 401.010 (Type "B") 401.030	- - -	
Catchbasin Frame and Grate	400.11	-	
Ditch Inlet Catchbasin Frame and Grate	403.01	Special where required	
M.H. Steps	405.010 (Hollow Aluminium)	-	
Safety Platform, Aluminum	404.02		
Sewer Service Connections	1006.010, 1006.020	-	
M.H. (precast)	Section 700	-	
Catchbasins (precast)	Section 700	-	
Catchbasin M.H. (precast)	Section 700	-	
M.H. Benching	701.021	-	
Internal Drop Structure for Existing M.H.	1003.03		
Water Service	1104.010, 1104.020	-	
25 mm Blow Off Installation	-	W1	Rev. 0, March '16
Valve and Box	1101.02	W2	Rev. 0, March '16
Hydrant Setting	1105.01	W3	Rev. 0, March '16
Connection of New Watermain to Existing Watermain	-	W4	Rev. 0, March '16
Connection of New Watermain to Existing Watermain	-	W5	Rev. 0, March '16
Typical Water Meter Installation		W6	Rev. 0, March '16
Air-Vacuum Release Valve Chamber		W7	Rev. 0, March '16
Thrust Blocks	1103.010, 1103.020	-	
20 m Right-Of-Way	-	R1	Rev. 0, March '16
Typical Rural Section	-	R2	Rev. 0, March '16
Concrete Sidewalk (125 mm Concrete) (100 mm Granular "A" minimum)	310.01	-	
Sidewalk Ramps	310.03	-	
Barrier Curb and Gutter	600.04	-	
Barrier Curb	600.11	-	
Asphalt Gutter	601.01	-	
Lot Grading Plan - General	-	G1	Rev. 0, March '16
Lot Grading Plan - Townhouse	-	G2	Rev. 0, March '16
Typical Servicing Layout - Single and Semi-Detached	-	S1	Rev. 0, March '16
Typical Servicing Layout - Townhouse	-	S2	Rev. 0, March '16
Sump Pump / Storm Connection	-	S3	Rev. 0, March '16
Typical Insulation Detail	-	S4	Rev. 0, March '16
Deciduous Tree Planting Detail	-	L1	Rev. 0, March '16

Approved Material and Product List

SERVICE	ITEM	APPROVED PRODUCTS
SANITARY	Sewer Pipe	PVC SDR 35 up to 375mm diameter pipe Concrete CSA#A257.1/A257.2
	Service Pipe	PVC SDR 28
	Connections	Kor-N-Seal (manholes) prefab tees or Kor-N-Tee (services)
	Adjustments	150mm Min. and 300mm max concrete riser complete with "Denso" tape along all joints
STORM	Sewer Pipe	375 mm diameter or less: PVC SDR 35 <ul style="list-style-type: none"> - IPEX "Ultra Rib" - Loc Pipe "Loc PVC" - Concrete-CSA A257.1 (non-reinforced) and A257.2 (reinforced). - HDPE Boss 2000, 320 kPa stiffness c/w Ultra Stab 75 joint - Royal Rib "Korflo" 450 mm diameter or greater: <ul style="list-style-type: none"> - Concrete-CSA A257.1 (non-reinforced) and A257.2 (reinforced). Leads to rear yard catchbasins are to be concrete.
	Service Pipe	PVC SDR 28
	Connections	Kor-N-Seal (PVC) Adaptor with band (ribbed) prefab tee or Kor-N-Tee (services)
	Culverts	- Galvanized CSP, minimum 1.6 mm thickness with 0.3m min. cover - HDPE corrugated Boss 2000, 320 kPa stiffness c/w Ultra Stab 75 joint with 0.6m min. cover
	Watermain	C900 PVC Class 150 (DR 18), B 137.3 with Ring-Tite joints and Tracer Wire.
	Valves	Mueller Resilient Wedge Gate Valve AWWA C-509, mechanical joint with: <ul style="list-style-type: none"> - fusion-bonded epoxy coating - bronze stem - open counter clockwise or; Clow Resilient Wedge Gate Valve AWWA C-509, F-6100 mechanical joint with: <ul style="list-style-type: none"> - fusion-bonded epoxy coating - bronze stem - open counter clockwise
WATER PIPE		

SERVICE	ITEM	APPROVED PRODUCTS
WATER PIPE	Hydrants	All with "Storz" pumper connection and open counter clockwise <ul style="list-style-type: none"> - Canada Valve, Century - Canada Valve, B-50-B-24 (specific heritage locations) - Clow Canada, Brigadier Series M-67-B
	Corporation Stop	<ul style="list-style-type: none"> - Series FB1000 (no lead), AWWA x copper compression assembly by Ford Meter Box Company Inc. - Cambridge Brass, Ball Style, Series 301, AWWA x CB assembly - Mueller Canada, Mueller 300 Ball Type, B-25008, AWWA x Mueller"CC"
	Curb Stop	All rod and pin shall be Stainless Steel <ul style="list-style-type: none"> - Series B44 (no lead), copper compression x copper compression by Ford Meter Box Company Inc. - Cambridge Brass, Ball Style, Series 202, CB Compression x CB Compression - Mueller Canada, Mueller 300 Ball Type, B-25209, Mueller"CC" x Mueller"CC" assembly
	Saddle	<ul style="list-style-type: none"> - FS 323 (stainless, double bolt) by Ford Meter Box Company Inc. - Cambridge Brass, Series 403 Stainless Steel Type 304 Double Bolt, AWWA Thread - Robar 2616DB, AWWA Thread
	Anodes	<ul style="list-style-type: none"> - DZP-24, 10.9 kg installed on iron watermain - DZP-12, 5.4 kg installed on iron fittings and valves etc - Sacrificial Zinc nuts
	Mechanical Joint Restraints	<ul style="list-style-type: none"> - "Grip Ring" pipe restrainer manufactured by Romac Industries - Uni-Flange Series 1300 manufactured by Ford Meter Box Company, Inc. - "MJ Field Lok", Series PV manufactured by Clow Canada - Series 350 Restrainers manufactured by Clow Canada - Series 2000PV manufactured by EBAA Iron Sales Inc.
	Tracer Wire	<ul style="list-style-type: none"> - 12 gauge wire, 7 strand copper with plastic coating attached to underside of bottom flange of Fire Hydrant (Std. Dwg. No. W3).
	Water Service Material	<ul style="list-style-type: none"> - Municipex plastic, manufactured by REHAU - Unlimited Polymer Solutions - Poly Series 200 or; - Copper seamless Type "K"
	Water Meters	<ul style="list-style-type: none"> - T-10 I900T by Neptune Technology Group

Standard Road Section Drawing



NOTES:

1. TOPSOIL TO BE REMOVED TO ITS FULL DEPTH ALONG ENTIRE WIDTH OF ROAD BETWEEN CURBS
2. BOULEVARD TO BE FULLY SODDED AS SPECIFIED
3. ROAD CROSSING DEPTHS FOR UTILITIES - HYDRO 1.20m
- TELEPHONE, UNION GAS, CABLE TV 1.00m
- WATER 2.00m
4. ALL WATER SERVICE BOXES TO BE SET AT PROPERTY LINE
5. ROAD RECONSTRUCTION DESIGN TO BE CONFIRMED BY GEOTECHNICAL DESIGN

TOWN OF MINTO	DATE MARCH, 2016	REV. 0
STANDARD CROSS-SECTION LOCAL STREET - 20.0m R.O.W.		STD. R1