

# **City of Hamilton**

## **Approved Products List**

\*\*\*This is the most recent version of the Approved Products List, dated September 16, 2025. Please note that the City is currently in the process of transitioning to a new platform for managing this list. As a result, no further updates will be made until the transition is complete. \*\*\*

**City of Hamilton - Prequalified Products Sep 5 2025**

<b>Approved Manufacturers' Products for Watermain</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Backflow Preventers	FOR WATERMAIN COMMISSIONING PURPOSES ONLY	Watts Industries (Canada) Inc.	LF909	75mm to 200mm
			009	16mm to 50mm
Backwater Valve		Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)	69060	
Corrosion Protection	Zinc Anodes, Type 2, and Magnesium Anodes, M1 Zinc Anodes: 5.4 Kg ad 10.5 Kg, ASTM B-418, Type 2 Magnesium Anodes: 14.5 Kg - B-107, ASTM 843, Type M1, OPSS.MUNI 442  Protective coatings for metal fittings           Polyethylene encasement for ductile iron watermain pipe and fittings ANSI/AWWA C105 A21.5 - 8 mil low density Poly-Tube with overlap			
		Advanced Corrosion Solutions Inc.	ACS PetroGuard	mastic
			ACS PetroGuard	primer
			ACS PetroGuard	tape
		Bren Technologies Inc./Petro Coating Systems Ltd.		mastic
				primer
				tape
		Denso North America Inc.	Denso Wrap	primer
			Denso Wrap	tape
			Denso Wrap	mastic
		Interprovincial Corrosion Control Company Ltd.	PetroWrap	primer, tape
			PetroWrap	mastic
		Trenton Corporation	No. 1 Wax Tape	(primer, mastic, tape)

**City of Hamilton - Prequalified Products Sep 5 2025**

<b>Approved Manufacturers' Products for Watermain</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Couplings	Water Service Couplings 19mm to 50mm, compression fit copper to copper connections AWWA C800, NSF 61(Annex G)	A.Y. McDonald Mfg. Co.	74758Q	
		Cambridge Brass	118NL	
		Ford Meter Box Company Inc.	C44-Q-NL	
		Mueller Canada	H-15403N	
	Water Service Couplings 19mm to 50mm, copper to lead or alloy connection AWWA C800, NSF 61(Annex G)	Ford Meter Box Company Inc.	Q14-NL,Q24-NL, Q34-NL with internal stop	
	Direct Buried Watermain Pipe Couplings AWWA C219 epoxy coated with stainless steel straps, nuts and bolts	Ford Meter Box Company Inc.	FC1	100mm to 300mm DI and PVC
			FC2A	100mm to 300mm DI and PVC
			FC2W-xx-SH	100mm to 400mm DI and PVC
		Georg Fischer Piping Systems	MULTI/JOINT® 3000 Plus Restraint System	Sizes up to 42" O.D.
		Krausz Industries Ltd.	Hymax Model No. 2000	100mm to 600mm DI and PVC
		Robar Industries Ltd.	1506 (4 or 5 bolt model)	100mm to 400mm DI and PVC
		Romac Industries Inc.	Macro HP	100mm to 300mm DI and PVC
		Viking Johnson Ltd.	MaxiFit	(available up to 700mm O.D.)
	In-Chamber Watermain Pipe Couplings epoxy coated with stainless steel nuts and bolts	Romac Industries Inc.	Alpha FC	Restrained Flange Coupling Adapter (100mm to 300mm)
		Vicaltic Company of Canada	Style AGS W77	(used when specified in the contract documents), 500mm and Larger, Steel Pipe and CPP
			Style 31	300mm & 400mm (DI pipe)
			Style 44	500mm and Larger Steel Pipe and CPP
Curb Stops	Curb Stop, 19mm to 50mm, compression ends ball type, non-draining. AWWA C800, NSF 61(Annex G)	A.Y. McDonald Mfg. Co.	76100Q	
		Cambridge Brass	202NL	
		Ford Meter Box Company Inc.	B44-Q-NL	
		Mueller Canada	300 B-25209N	

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Fittings	Ductile Iron Up to 300mm Pressure Class 350, cement lined AWWA C104, C110/A21.10, C153/A2.53, OPSS.MUNI 441, NSF 61	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)		
		RCT	Flex-Tite Fittings (Self Restrained Fittings)	100mm to 300mm
		Sigma Corporation		
		SIP Industries	CDMJ, XDMJ, DF	Compact MJ, Full Body MJ and Flanged Fittings (CDMJ, XDMJ, DF)
		Star® Pipe Products		
		Tyler Union	DM, DFF and XM	
	Ductile Iron 400mm and larger Class 52, cement lined restrained mechanical joint AWWA C104, C110/A21.10, OPSS.MUNI 441.05.02	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)		
		Sigma Corporation		
		SIP Industries	CDMJ, XDMJ, DF	Compact MJ, Full Body MJ and Flanged Fittings (CDMJ, XDMJ, DF). Up to 600mm dia.
		Star® Pipe Products		
		Tyler Union	DM, DFF and XM	
	PVC 100mm, 150mm, 200mm, injection molded AWWA C907, B137.3, OPSS.MUNI 441	IPEX Inc.	Blue Brute	
		Westlake Pipe & Fittings	Royal	
	PVC 300mm to 750mm CSA B137.3 shall use AWWA C900 pipe, bonded and over-wrapped with fiberglass-reinforced polyester	IPEX Inc.	Big Brute	
			Blue Brute	
		Westlake Pipe & Fittings		
	Flanged Dismantling Joint	Smith-Blair Inc.	Dismantling Joint - Model 975	For use in-chamber only
Hydrants	3 way hydrants, AWWA C502 CAN/ULC S-520, 2-63.5mm side ports, CSA standard thread, stainless steel nuts, bolts and studs 100mm "STORZ" pumper connection 25mm hydrant operating nut open left (counter clockwise) Extensions permitted at boot only. All parts of the hydrant above ground shall be primed and painted #Red#, including caps, bonnets and Storz nozzles.	American AVK Company	Style 2780	
		Clow Canada	Brigadier Series M -67	
		Mueller Canada	Darling B-50-B	
Hydrant Anti-Tampering Devices		Cromer Industries Corp.	WC-ATD	Colour Coded # GOLD for AVK Model 2780, YELLOW for Clow Brigadier, BLACK for Mueller B-50-B
Insulation	Extruded Polystyrene	Owens Corning Canada LP	Foamular 1000 (Pink)	

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Joint Restraint	Ductile Iron Pipe	Canada Pipe Company Ltd.	TR Flex Joint Pipe	Self Restrained Joint Pipe (up to 900mm)
		EBAA Iron Sales, Inc.	Mega-Lug Series 1100	Black epoxy coated wedges and nuts (100mm to 1200mm)
		Ford Meter Box Company Inc.	Uni-Flange Series 1390	100mm to 300 mm
		Sigma Corporation	One-Lok - SLDE	100mm to 600mm
		SIP Industries	Model EZD	100mm to 600mm
		Smith-Blair Inc.	Bell-Lock 115 and 165	100mm to 300 mm
			Cam-Lock Series 111	epoxy coated wedges and nuts (100mm to 600 mm)
		Star® Pipe Products	Stargrip Series 3000 and 3100	100mm to 1200mm
			ALL Stargrip® series 4300	100mm to 300mm
		Tyler Union	TUFGrip Dual TLD (black)	
			TUFGrip Dual Wedge (TDW)	Series 1500 (100mm to 600mm)
	Polyvinyl Chloride Pipe (PVC) AWWA C900, ASTM F1674	EBAA Iron Sales, Inc.	Tru-Dual Series 1500TD	100mm to 300 mm
		Ford Meter Box Company Inc.	Uni-Flange Series 1390	100mm to 300 mm
		Sigma Corporation	PV-LOK - SLC	100mm to 600mm
		SIP Industries	Model EZPVC	100mm to 600mm
		Smith-Blair Inc.	Bell-Lock 115	100mm to 300mm
			Cam-Lock Series 120	100mm to 600mm
		Star® Pipe Products	1000C	pipe to MJ or Push-On Fittings (100mm to 600mm)
			1000G2C	pipe to MJ push-on fittings (100mm to 300mm), formerly 9000C
			1100C	Bell Joints (100mm to 600mm)
			1100G2C	Bell Joints (100mm to 300mm)
			1200C	pipe to PVC Pressure Fittings with DI pipe OD (100mm to 300mm)
			1200G2C	pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm), formerly 9200C
			Stargrip Series 4000	Top breakaway nut same size as the T-bolt (100mm to 750mm)
			Stargrip Series 4000G2	100mm to 300 mm
			ALL Stargrip® series 4300	100mm to 300mm
		Tyler Union	TUFGrip TLP (red)	
			TUFGrip Dual Wedge (TDW)	Series 1500 (100mm to 600mm)
		Westlake Pipe & Fittings	Certa-Lok RJIB	Restrained Joint Integral Bell Pipe (100mm to 200mm & 300mm)

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Joint Restraint (continued)	Molecularly Oriented Polyvinyl Chloride (PVCO) AWWA C909	Sigma Corporation	PV-LOK	PWM - PVCO to MJ fitting, PVPF - PVCO to PVC fitting, PWP - PVCO bell and spigot
		SIP Industries	Model EZPVC	100mm to 300mm
		Star® Pipe Products	Stargrip Series 4000	100mm to 300mm
			Stargrip Series 4000G2	100mm to 300mm
			1000G2C	pipe to MJ or Push-On Fittings (100mm to 300mm), formerly 9000C
			1100G2C	Bell Joints (100mm to 300mm), formerly 9100C
			1200G2C	pipe to PVC pressure fittings with DI pipe OD AWWA C907 (100mm to 300mm), formerly 9200C
			ALL Stargrip® series 4300	100mm to 300mm. Note: Deflection for C909 PVCO is not allowed per pipe manufacturer.
		Tyler Union	TUFGrip TLP (red)	pipe to MJ fittings (100mm to 300mm)
			TUFGrip Dual Wedge (TDW)	Series 1500 (100mm to 300mm)
Main Stops (Corporations)	19mm to 50mm, compression end, ball Type non-draining AWWA C800, NSF 61(Annex G)	A.Y. McDonald Mfg. Co.	74701BQ	
		Cambridge Brass	301NL	A3H3, A4H4, A6H6, A7H7
		Ford Meter Box Company Inc.	FB1000 Series	Q Type
		Mueller Canada	300 B-25008N	

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Pipe	Concrete Pressure Pipe 500mm and larger AWWA C301 and C303, OPSS.MUNI 441 Plant Pre-Qualified by ACPPA	DECAST Ltd.		
		Rinker Materials (formerly Forterra Pipe and Precast)		
	Ductile Iron Pipe 100mm to 200mm & 300mm Pressure Class 350 AWWA C104/A21.4, C150/A21.50, C151/A21.51, OPSS.MUNI 441 (Includes polyethelene encasement of pipe and fittings, AWWA C105/A21.5)	McWane Ductile	TR Flex Joint Pipe	
			Tyton Joint Pipe	
	Ductile Iron Pipe, Thickness Class 52 AWWA C104/A21.4,C150/A21.50, C151/A21.51, OPSS.MUNI 441 (Includes polyethelene encasement of pipe and fittings, AWWA C105/A21.5)	McWane Ductile	TR Flex Joint Pipe	400mm to 900mm
			Tyton Joint Pipe	400mm to 1050mm
	Ductile Iron Pipe 1200mm Pressure Class 350 AWWA C104/A21.4, C150/A21.50, C151/A21.51, OPSS.MUNI 441 (Includes polyethelene encasement of pipe and fittings, AWWA C105/A21.5)	McWane Ductile	Tyton Joint Pipe	
	Polyvinyl Chloride (PVC) AWWA C900 - DR18, OPSS.MUNI 441	Diamond Plastics Corporation	AWWA C900	(100mm to 200mm & 300mm)
			Blue Brute	(100mm to 200mm & 300mm & 400mm)
			Centurion	400mm
			TerraBrute® CR	Up to 300mm
		National Pipe & Plastics, Inc.	AWWA C900	(100mm to 200mm & 300mm)
		Next Polymers	Aqualoc	(100mm to 200mm & 300mm & 400mm)
		Westlake Pipe & Fittings	CIOD Pressure	(100mm to 200mm & 300mm)
			Certa-Lok R RJIB	Restrained Joint Integral Bell (100mm to 200mm & 300mm)
	Molecularly Oriented Polyvinyl Chloride (PVCO) AWWA C909-PC235, OPSS.MUNI 441	IPEX Inc.	Bionax	100mm - 200mm, 300mm
		Westlake Pipe & Fittings	AquaMax	150mm to 300mm
	Polyvinyl Chloride (PVC) 500mm to 750mm AWWA C900, OPSS.MUNI 441	IPEX Inc.	Big Brute	
			Centurion	

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	Steel Pipe 600mm and larger OPSS.MUNI 441, AWWA M11, AWWA C200 (Approved for use in special projects only per the Contract Documents).	Westlake Pipe & Fittings		
		Ewing Fabricators	Straight Seam - Welded Steel Cylinder	Cement mortar lining (shop applied), AWWA C205, Polyurithane coating AWWA C222, Field welded joints AWWA C206
		Northwest Pipe Company	Spiral Seam	Cement mortar lining (shop applied), AWWA C205, Polyurithane coating AWWA C222, Field welded joints AWWA C206
	Water Service Pipe 19mm to 50mm, Type K Soft Copper AWWA C800, OPSS.MUNI 441, ASTM B88	Great Lakes Copper Inc.		
Repair Clamps	Direct Buried clamps to be supplied with conductivity strip	Cambridge Brass	Series 425	with Lifter Plate
			Series 435	with Lifter Plate
		Ford Meter Box Company Inc.	FS1	
			FS2	
			FS3	
		Robar Industries Ltd.	5616, 5626, 5636	
		Smith-Blair Inc.	Model 261	
			Model 262	
			Model 263	
	In-Chamber	Hamilton Kent, Straub Couplings	Straub-Flex, non-restrained up to 1200mm	(modified for Hamilton)
Service Boxes	Slide adjustment type Stainless steel rods stainless steel cotter pin	Cedar Infrastructure Products LP	Model N3909	
		Clow Canada	#D# Series	
		Mueller Canada	H-10300 Series	
Service Saddles	DI, PVC Pipe Outlet size: 19mm to 50mm	Cambridge Brass	Series 403	
			Series 812	
		Ford Meter Box Company Inc.	FS202	
		Robar Industries Ltd.	2616	
			2506 DS	
		Romac Industries Inc.	Style 306	For DI and PVC
		Smith-Blair Inc.	313	For D.I. Pipe
			317	For PVC Pipe
			Models 373 and 375	For DI and PVC Pipe
	Concrete Pressure Pipe Outlet size:19mm to 50mm	Ayotte Enterprises Inc.	A-900 with A-571 thermoplastic coating	(400 mm only)



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Tapping Sleeves	Outlet size: 100mm to 400mm Protective coating shall be applied to all steel sleeves	Ayotte Enterprises Inc.	A-600 with A-571 thermoplastic coating, stainless steel nuts and bolts - concrete pipe only	
		JCM Industries	JCM 415	epoxy coated with stainless steel nuts and bolts, concrete pipe only
		Robar Industries Ltd.	6808 and 6906 epoxy coated	Ductile Iron, C900 PVC only (100mm to 500mm)
		Romac Industries Inc.	FTS420 epoxy coated	Ductile Iron pipe
		Smith-Blair Inc.	#622 epoxy coated	Ductile Iron and PVC pipe (up to 750mm)
			Model 625	For Concrete Pressure Pipe
Tracer Wire	Solid 12 gauge copper TWU75 or RWU90XLPE			

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Valves	Butterfly Valve 450mm and Larger AWWA C504, Class 150B manual actuator - traveling nut type with external position indicator nuts, bolts, and bolt studs to be stainless steel, 50mm operating nut, open left (counter clockwise)	American AVK Company	Concentric Butterfly Valve - Series S816	(Flanged ends) 500mm and 600mm
		Clow Canada	Series 4700 and 4750 Seat On Body Butterfly Valves	500mm - 900mm (flanged ends)
		Henry Pratt Company	2FII	(450mm and 500mm)
			Triton XR-70	(Flanged ends) 600mm and larger
		Mueller Canada	Lineseal	
	Gate Valve* Resilient Wedge 100mm to 300mm AWWA C509, C515 nuts, bolts, and bolt studs to be stainless steel, bronze pin top adjustment not permitted, 50mm operating nut, open left (counter clockwise) *includes hydrant secondary valves	American AVK Company	Series 65	
		Clow Canada	F-6100	
			F-6102	
			F-6106	
		Mueller Canada	A2360-6, A2360-19, A2360-23	
		Vahn-Tech International Inc.	VT-GV-A15	
	Gate Valve Resilient Wedge 400mm AWWA C509, C515 nuts, bolts, and bolt studs to be stainless steel, 50mm operating nut, open left (counter clockwise)	American AVK Company	Series 45/MMN, Series 45/FFN	MMN - for direct bury applications, FFN - for in-chamber applications
		Clow Canada	F-6102	
		Mueller Canada	A2361-6	
	Combination Air Release and Vacuum Breaker Valves AWWA C512 with surge protection	A.R.I. Flow Control Accessories	D-060 C HF NS	
		International Valve Marketing, LLC	Vent-tech Model WTR and WTW	
		Vent-O-Mat	Water RBX Series	
	Tapping Valves 100mm to 300 mm AWWA C509	American AVK Company	Series 45/MFT	Mechanical Joint x Tapping Sleeve Flanged End
		Clow Canada	F-6106	
		Mueller Canada	A2360-19	
	Tapping Valves 400mm to 600mm AWWA C509	Clow Canada	F-6106BG	
		Mueller Canada	A-2361-19	
	Check Valves (In-Chamber)	Cla-Val Canada	Model 585	Outside Lever and Weight
		Clow Canada	Model 1106 Swing Check Valve (Kennedy)	Outside Lever and Weight
		Henry Pratt Company	Series 9001	Outside Lever and Weight
Valve Boxes	Sliding Type with 6mm pre-drilled tracer wire hole and grommet in upper section	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)	VB1000 Series	
		Cedar Infrastructure Products LP	N3907	RB Agarwalla Valve Box (4 1/4 inch) and Components
		DomCast Group	DF64	
		Star® Pipe Products	VB-5000 Series	(VBDF414-48, VBDF414-60)

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Valve Chambers	Valve Chambers OPSS 407, 1351 Plant must be pre-qualified by the Ontario Concrete Pipe Association	DECAST Ltd.		
		Anchor Concrete Products Ltd.		
		Con Cast Pipe Inc.		
		Green Infrastructure Partners Inc.		
		M CON Products Inc.		
		Omni Precast		
		Rinker Materials (formerly Forterra Pipe and Precast)		
		Wilkinson Heavy Precast Limited		
Valve Chamber Frame and Cover	Cast Iron, Square Frame with Vented Circular Cover OPSS 1850, OPSS 402.011, WM 212.03	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)		
		EJ Canada		
		R.B. Agarwalla		Distributor: Cedar Infrastructure Products LP
	750mm cover OPSS 1850 10 - 25mm vent holes "WATER" cast into cover 4 lifting keyways	EJ Canada	Frame 1220Z1, Product No. 00122016 Cover 1220B, Product No. 00122028	
Water Meter Reader Enclosure		Hoffman Enclosures Inc	Hoffman Nema 4x, fiberglass	Includes internal mounting plate
Meter Box	Plastic Meter Pit	Ford Meter Box Company Inc.	Model PDBHC-488-20-60-NL	
			Model PDBHC-488-20-72-NL	
	Meter Box Cover	Ford Meter Box Company Inc.	Model W3-TP	
			Model W3-T	

<b>Approved Manufacturers' Products for Sewer</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Backwater Valve		Syntec Process Equipment Limited	Checkmate (Tideflex)	In-line back water valve for sewer outfall applications
		Wapro	WaStop	In-line back water valve for sewer outfall applications
Catch Basins	CSA A257.4 Form 700 OPSS 407 OPSS 1351 Supplied from a plant prequalified by the OCPA	DECAST Ltd.		
		Coldstream Concrete Ltd		
		Con Cast Pipe Inc.		
		Green Infrastructure Partners Inc.		
		M CON Products Inc.		
		Omni Precast		
		Rinker Materials (formerly Forterra Pipe and Precast)		
		Wilkinson Heavy Precast Limited		

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<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Catch Basin Frames & Covers	OPSD 400.100 ASTM A48 OPSS 1850	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)		
		DomCast Group		
		EJ Canada	"All in one" cover	
		Govind Steel Company Ltd	GS	
		Labco Foundry Ltd		
		Prosperity Exim Private Limited	MF/CBMI	Conqueror
		R.B. Argawalla		Distributor: Cedar Infrastructure Products LP
	OPSD 400.082 ASTM A48 OPSS1850	Cedar Infrastructure Products LP	N2330-FSH	OPSD 400.082 with inlet bars
		EJ Canada	400.082Z2	OPSD 400.082 with inlet bars
	OPSD 400.020 ASTM A48 OPSS1850	Cedar Infrastructure Products LP	Herringbone Style Frame and Cover - OPSD 400.02	
		DomCast Group	Herringbone Style Frame and Cover - OPSD 400.02	
		EJ Canada	Herringbone Style Frame and Cover - OPSD 400.02 - Model# MC400020306	Optimized Frame and Cover - Modified OPSD 402.02
Couplings	CSA B182.2 CSA B182.4 OPSS 1841	Fernco Connectors Ltd.		
		Flex Connection Inc. dba JOINTS	Calder Repair Coupling	
		Mission Rubber Company		
		PIPECONX		
		Preper Inc.		
		Rollee Industrial Products	KWIK Couplings	

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Culvert Pipe	Galvanized Steel Pipe (Corrugated or Spiral Rib) CSA G401 OPSS.MUNI 1801 Up to 1000mm - 1.6 Gauge. Over 1000mm - 2.0 Gauge.	Atlantic Industries Limited		Corrugated Steel Pipe
		Armtec Inc.		Steelcor
			Ultra Flo	Spiral Rib Pipe
			Hel-Cor	Corrugated Steel Pipe
		E.S.Hubbell Highway and Drainage Products		Corrugated Steel Pipe
	Aluminized Steel Pipe Type 2 (Corrugated or Spiral Rib) CSA G401 OPSS.MUNI 1801 Up to 1000mm - 1.6 Gauge. Over 1000mm - 2.0 Gauge.	Solenio Inc.		Corrugated Steel Pipe
		Atlantic Industries Limited		Corrugated Steel Pipe
			Hi-Flo	Spiral Rib Pipe
		Armtec Inc.	Ultra Flo	Spiral Rib Pipe
			FloCore	Spiral Rib Pipe
		E.S.Hubbell Highway and Drainage Products		Corrugated Steel Pipe
	Polymer Laminated Steel Pipe (Corrugated or Spiral Rib) CSA G401 OPSS.MUNI 1801 Up to 1000mm - 1.6 Gauge. Over 1000mm - 2.0 Gauge.	Atlantic Industries Limited		Corrugated Steel Pipe
		Armtec Inc.	Hi-Flo	Spiral Rib Pipe
			Ultra Flo	Spiral Rib Pipe
	HDPE OPSS 1840, ASTM F 894, 320 KPa Pipe Stiffness	ADS Canada	N12 Watertight	100-750mm
			N12 Watertight	900-1500mm
		Armtec Inc.	Boss 2000	
		Solenio Inc.	SolfloMax watertight - BIGC, DBIG, DBIGG	Up to 900mm
Goss Traps	SEW-304	North America Traffic Inc.	CB Trap	
Maintenance Holes	CSA A257.4-M92 Form 700 OPSS 1351 1200mm to 3000mm Supplied from a plant prequalified by the OCPA	DECAST Ltd.		
		Coldstream Concrete Ltd		1200mm to 3600mm diameter
		Con Cast Pipe Inc.		
		Green Infrastructure Partners Inc.		
		M CON Products Inc.		
		Omni Precast		
		Rinker Materials (formerly Forterra Pipe and Precast)		
		Wilkinson Heavy Precast Limited		

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Maintenance Hole Frames & Covers	OPSD 401.010 Type A and B ASTM A48	Bibby Ste Croix (Div of Canada Pipe Co. Ltd.)		Types A & B
		DomCast Group		
		EJ Canada	Type A	closed
			Type B	open
			MC401010406	Optimized Frame and Cover - An alternate to OPSD 401.010 Type A
		Govind Steel Company Ltd	GS	Types A & B
		Prosperity Exim Private Limited	MF/CMBI	Types A & B, Conqueror
		R.B. Argawalla		Types A & B, Distributor: Cedar Infrastructure Products LP
Sewer Pipe	Vitrified Clay Pipe 150mm to 600mm CSA A60.1M-1976, Form 500	The Logan Clay Products Company	T-Tap	(without flanges)
		DECAST Ltd.		
	Concrete Pipe - Reinforced 300mm or greater CSA A257.2, 65-D, 100-D, 140-D Form 500 and 700, OPSS 1820 Supplied from a plant prequalified by the OCPA	Coldstream Concrete Ltd	Reinforced Concrete Pipe	
		Con Cast Pipe Inc.	PERFECT PIPE	(600mm, 900mm & 1200mm)
			Reinforced Concrete Pipe	
		Green Infrastructure Partners Inc.		
		M CON Products Inc.		
		Omni Precast		
		Rinker Materials (formerly Forterra Pipe and Precast)	Concrete Bell	(mortared in)
	Polyvinyl Chloride Pipe (PVC) Smooth Wall 150mm - SDR 28 200mm to 600mm - SDR 35 CSA CSA B182.2, Form 500, OPSS 1841	Diamond Plastics Corporation	SANI-21	
		IPEX Inc.	Enviro-Tite	
			Ring-Tite	
		National Pipe & Plastics, Inc.	PVC Sewer Pipe	
		Next Polymers	NEXT Duraloc	
		Westlake Pipe & Fittings	Royal	
Sewer Pipe (PVC) Fittings - Injection Molded and Fabricated	CAN/CSA-B182.2 [See B1800]	Galaxy Plastics Ltd.	Galaxy / Tigre	PVC Plastic Sewer Main (PSM) Fittings
		IPEX Inc.	Fittings - RING-TITE	
		Next Polymers	Next Duraloc Fittings	
		Pro-Line Fittings East Inc.	PVC Gasketed Sewer Fittings	
		Westlake Pipe & Fittings	STI Gasketed Sewer Fittings	
Saddles / Connections	CSA B182.2 CSA B182.4 100mm to 300mm	ADS Canada	Inserta-Tee	
		Specialty Products 2000	Core Bell Adaptor	150mm

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Approved Manufacturers' Products for Sewer				
Product	Standards	Manufacturer	Model/Series	Remarks
Valves	Combination Air / Vacuum Breaker AWWA C512	A.R.I. Flow Control Accessories	D020	(stainless steel)
		Gunn Product Services	986-01 wastewater combination air valve c/w stainless-steel body	H-Tec
			986-04 direct bury air valve set for sewer c/w epoxy-steel body	H-Tec
			988-00 high-volume wastewater combination air valve c/w stainless steel body	H-Tec
			989-00 short body wastewater combination air valve c/w stainless steel body	H-Tec
		International Valve Marketing, LLC	Vent-Tech Air Valves Models SWG, SXG, SDG, SZG	

Approved Manufacturers' Products for Street Lighting				
Product	Standards	Manufacturer	Model/Series	Remarks
High Pressure Sodium Lamps - all wattages, medium and mogul base	Non-cycling, TCLP compliant including lead-free brass base 30,000+ hours life, universal operating position. Meet ANSI specification corresponding to wattage.	Current Lighting Canada	Ecolux NC	
		Osram Sylvania Ltd.	Lumalux Plus/Eco	
Metal Halide Lamps - all wattages, medium and mogul base	Inclusive of probe start, pulse start and ceramic metal halide. Operating position designation as per luminaire requirements. Meet ANSI specification corresponding to wattage.	Current Lighting Canada	Multi-Vapor	
		Osram Sylvania Ltd.	Metalarc	
Metal Halide Lamps - 200W	200W pulse start lamps	Venture Lighting	Uni-Form	
Photocell - Standard life, twist-lock type	Standard Life Photoelectric controller with NEMA rated locking type blades OPSS 2485 Use only permitted for maintenance/replacement. Prohibited for use with LED luminaires.	Acuity Brands Lighting Canada, Inc.	DTL Series	DSS 124
		Precision Solar Controls		
Photocell - Long life, twist-lock type	Long Life Photoelectric controller with NEMA rated locking type blades OPSS 2485	Acuity Brands Lighting Canada, Inc.	DTL Series	DLL 127
Photocell - Standard life, button	Photoelectric controller - button/micro	Acuity Brands Lighting Canada, Inc.	DTL Series	DBE Series

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<b>Approved Manufacturers' Products for Street Lighting</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
type	CSA C239			
Cobra-head Luminaires - drop glass, all wattages	Prismatic drop glass high pressure sodium and metal halide "cobra-head" luminaires Integral twist-lock photocell socket CSA C22.2 No. 9.0-96, CSA C653-08, OPSS 2432 Use only permitted for maintenance/replacement.	American Electric Lighting	115 Series	
		Cooper Lighting Solutions	OVZ Series	
		Current Lighting Canada	M-250R2 Series	
LED Cobra-head Luminaires - all wattages	Light Emitting Diode (LED) "cobra-head" luminaires conforming to specifications established in RFPQ C11-59-12	Current Lighting Canada	EVOLVE	
Cobra-head Luminaire - sag/flat glass, all wattages	Sag glass/flat glass (cut-off) high pressure sodium and metal halide "cobra-head" luminaire. Integral twist-lock photocell socket CSA C22.2 No.9.0-96, CSA C653.08, OPSS 2432 Use only permitted for maintenance replacement.	American Electric Lighting	115 Series	
		Cooper Lighting Solutions	OVF Series	
		Current Lighting Canada	M-250R2 Series	
Decorative Luminaire - Carriage Style, all wattages	Decorative carriage (4-sided lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96, CSA C653-08	Acuity Brands Lighting Canada, Inc.	Cyclone Hudson - HUDT4A	
		Cyclone Lighting	Elencia Series	
		King Luminaire	K601 Empress Series	
Decorative Luminaire - Tear Drop Style, all wattages	Decorative tear-drop (lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96, CSA C653-08	Lumec Manufacturing, A Philips Group Brand	Renaissance Series	
		Holophane Canada Inc.	Memphis Series	
		King Luminaire	K211 Manchester Series	
Decorative Luminaire - Acorn Style, all wattages	Decorative post-top (lantern) high pressure sodium luminaire. Integral twist-lock photocell socket CSA 22.2 No. 9.0-96, CSA C653-08	King Luminaire	K118 Washington Series	



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<b>Approved Manufacturers' Products for Street Lighting</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Power Supply Pedestal Feeder Wiring	Single conductor, stranded copper wire 90 degree Celsius, 600V rated Type RWU90-XLPE #2 AWG (minimum) CSA C22.2 No.38	Anixter Canada Inc.	6CN Series (or equal)	
		General Cable Company		
		Southwire Canada Company		
Pole-to-pole and Branch Feeder Wiring	Single conductor, stranded copper wire 90 degree Celsius, 600V rated Type RWU90-XLPE #6 AWG (minimum) CSA C22.2 No.38	Anixter Canada Inc.	6CN Series (or equal)	
		General Cable Company		
		Southwire Canada Company		
In-pole/In-arm (internal) Wiring	Single conductor, solid copper wire 90 degree Celsius, 600V rated Type TWU #12 AWG (minimum) CSA C22.2 No.75	Anixter Canada Inc.	6CA Series (or equal)	
		General Cable Company		
		Southwire Canada Company		
Electrical Conduit and Fittings	Type II rigid polyvinyl chloride (PVC) 50mm (minimum) CSA C22.2 No.211.2-06	IPEX Inc.	Scepter	Conduit
			Scepter	Conduit Fittings
		Westlake Pipe & Fittings	Rigicon	Conduit
			Rigicon	Conduit Fittings
Concrete Pole - Standard Duty, all lengths	Direct buried, spun concrete pole- street lighting use. Class B (minimum) CSAA14-M1979, CSA C22.2 No.206-M, OPSS 2421, OPSD 2225.01	StressCrete Ltd.		
		Utility Structures Inc.		
Concrete Pole - Heavy Duty, all lengths	Direct buried, spun concrete pole - combined use (street lighting & traffic signals) Class D (minimum), CSAA14-M1979, CSA C22.2 No.206-M, OPSS 2421, OPSD 2225.01	StressCrete Ltd.		
		Utility Structures Inc.		
Concrete Pole - Decorative Octagonal, all lengths	Direct buried, spun concrete pole - street lighting use. Class B (minimum) Octagonal decorative tapered profile, midnight black etched finish CSAA14-M1979, CSA C22.2 No.206-M, OPSS 2421, OPSD 2225.01	StressCrete Ltd.		
		Utility Structures Inc.		
Concrete Pole -	Direct buried, spun	StressCrete Ltd.	Sheridan Collection Series	

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<b>Approved Manufacturers' Products for Street Lighting</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Decorative Post/Top Mount, all lengths	concrete pole - street lighting use. Decorative, including profiled decorative base, midnight black etched finish - post top luminaire mounting CSAA14-M1979, CSA C22.2 No.206-M, OPSS 2421, OPSD 2225.01			
Street Light Luminaire Bracket Arm - Standard, all projection lengths	Aluminum tapered sidemount elliptical bracket arms OPSS 2428, OPSD 2250.01, OPSD 2420.01	Aluminous Lighting Products		
		Dynapole, Div of Dynametal Industries Ltd.		
		StressCrete Ltd.		
Street Light Luminaire Bracket Arm - Decorative, all projection lengths	Decorative metal "Victorian" scroll arm - side mount configuration - midnight black painted finish	StressCrete Ltd.	17x Series	
Pole Identification Tag	Aluminum Engraved modular number/letter insert type pole ID tags 25mm letter/numbers, black text on white or natural aluminum background. Vertical orientation, affixed with aluminum banding	Almetek Industries, Inc.	E-Z Tag V400-TH-A	
		Electromark		
Power Supply Pedestal	Complete pedestal assembly consisting of the following: -100A rated meter socket c/w blank/shorting meter socket insert -120/240V, 100A panelboard c/w 60A-2P main breaker, 6x40A-1P branch breakers and provision for up to 12 breakers -All equipment contained within a weather proof, tamper proof, dark green in colour metal ground/pad mounted enclosure -Enclosure door and internal panelboard door shall have provision for pad-locking CSA or ESA Approved	Keltour Controls Inc.		
		Pedestal Solutions Inc.	HSLM271-6-40	
Ground Rod Inspection Well	Polymer 254mm dia. Light duty inspection well/handwell ASTM C857 - A0.3 SCTE - Light Duty	Carson (Oldcastle Precast)	L Series 910	

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<b>Approved Manufacturers' Products for Traffic Signals</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Electrical Conduit and Fittings	Polyvinyl Chloride (PVC) 25mm, 50mm and 75mm Bell end conduit NEMA TC-2 Schedule 80, CSA C22.2 No. 21a.2-06, OPSS.MUNI 603 and Traffic Control Device Specification 603.05.08	IPEX Inc.	Scepter (type II), includes IPEX 100 conduit cement	Conduit
			Scepter (type II), includes IPEX 100 conduit cement	Conduit Fittings
	High Density Polyethylene (HDPE) CSA B137.1-05, ASTM F2160, OPSS.MUNI 603 and Traffic Control Device Specification 603.05.08	Carlton		Conduit and Fittings
		IPEX Inc.		Conduit and Fittings
Electrical Handholes	Precast concrete with cast iron frame & cover (460mm dia.) ANSI/ASTM A48	Hy-Grade Precast Concrete Ltd.		
Detector Loop Lead-in Cable	# 14 AWG Overall shielded, twisted pair Polyethylene insulation PVC Jacket, 600 V	Belden Wire & Cable Co	8720	
Detector Loop Sealant	Non-shrinking Won't fracture at -40 degrees C	3M Canada - Electrical Products Division H.B. Fuller	Detector Loop Sealant 5000	
			Q-Seal: 290W	
			Q-Seal: 290S	
			Q-Seal: 295S, 295M	
Detector Loop Splice Tape	Vinyl electrical tape OPSS 623 compliant, CSA 22.2 No. 197, 600 volts (-18 degrees C to 105 degrees C)	3M Canada - Electrical Products Division	Scotch Super 88	
Detector Loop Wire	Stranded copper wire #14 AWG, Black Type RWU-90 X-link 1000 V - 40# C OPSS 623 - CSA 22.2 NO. 38	General Cable Company	Spec. # 5600	
Grid Interconnecting Conductors	Solid, soft drawn, un-insulated Bare #2 AWG copper wire	ERICO International Corporation	Eritech	
		Southwire Canada Company		
Ground Electrode Conductor	#2 AWG Soft Wire - Stranded Copper Wire RWU90-XLPE Insulated Green #3 AWG and #6 AWG Traffic Control Device Specification Sub section 609.05.04	General Cable Company		
		Noramco Wire and Cable Co. Ltd.		
Ground Electrode Connectors	Compression connectors	ABB (Thomas & Betts)	Blackburn	E-Z-Ground

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<b>Approved Manufacturers' Products for Traffic Signals</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Ground Enhancement Material	< 20 ohm-cm resistivity MSDS sheet required, OPSS609 and Traffic Control Device Specification 609.05.10	ERICO International Corporation	GEM25A	
		Harger Lighting & Grounding	Ultrafill	
		SAE Inc.	Conducrete DM100	
Ground Rod Inspection Well	Polymer Concrete	Carson (Oldcastle Precast)	Carson H-Series	
Grounding Plates	254mm x 400mm x 6mm (10 CSA C22.2 N0. 41-M or UL467 Min 0.2 sq. metre surface area, OPSS 609 and Traffic Control Device Specification 609.05.02	ABB (Thomas & Betts)	Blackburn 1016TB	
		ERICO International Corporation	Eritech EGGPC	
		Hydel Enterprises Inc	1016GPGC	
Grounding Rods	3.0m x 19mm (10 CSA C22.2 No. 41-M or UL467, OPSS 609 and Traffic Control Device Specification 609.05.02	ABB (Thomas & Betts)	Blackburn 7510	
		ERICO International Corporation	Eritech 613400	
		Hydel Enterprises Inc	3410CC	
Junction Boxes for Detector Loop Splices	Fibre reinforced PVC OPSD 2300.010, Type No. P1-5 200mm x 200mm x 175mm Flanged with cover H-10 highway loading	IPEX Inc.	Scepter - H887	

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<b>Approved Manufacturers' Products for Parks</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Drinking Fountains	Wall-Mounted Drinking Fountain	Most Dependable Fountains, Inc.	450 WMSS	
	Single Pedestal Drinking Fountain	Most Dependable Fountains, Inc.	400 SM/SMSS	
			410 SM/SMSS	
		Murdock Manufacturing	GRF34-37	
			GRJ84-87	
	Single Pedestal Drinking Fountain + bottle filler	Most Dependable Fountains, Inc.	10135 SM/SMSS	
		Murdock Manufacturing	GYM74-77	
	Single Pedestal Drinking Fountain + pet fountain	Most Dependable Fountains, Inc.	400 SM/SMSS with pet fountain option	
			410 SM/SMSS with pet fountain option	
		Murdock Manufacturing	GRF34-37 with pet fountain option	
			GRJ84-87 with pet fountain option	
	Single Pedestal Drinking Fountain + bottle filler + pet fountain	Most Dependable Fountains, Inc.	10155 SM/SMSS	
		Murdock Manufacturing	GYM74-77 with pet fountain option	
	Double Pedestal Drinking Fountain	Most Dependable Fountains, Inc.	440 SM/SMSS/SMSSFA	
		Murdock Manufacturing	GRM44-47	
	Double Pedestal Drinking Fountain + bottle filler	Most Dependable Fountains, Inc.	10145 SM/SMSS/SMFA/SMSSFA	
		Murdock Manufacturing	GYQ84-87	
	Double Pedestal Drinking Fountain + pet fountain	Most Dependable Fountains, Inc.	440 SM/SMSS/SMFA/SMSSFA with pet fountain option	
		Murdock Manufacturing	GRM44-47 with pet fountain option	
Geotextile	Non-Woven PK-0210.01	Terrafox Geosynthetics Inc.	270R	

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<b>Approved Manufacturers' Products for Parks</b>				
<b>Product</b>	<b>Standards</b>	<b>Manufacturer</b>	<b>Model/Series</b>	<b>Remarks</b>
Lighting Fixtures	Outdoor ice rink light fixture (2 required per pole/bullhorn)	Holophane Canada Inc.	Predator LED: Fixture: PSLED P4 40K MVOLT 65 KM 20KV BKSDP 20KV PR7 PCLL Visor: PMLEDFV-BP	Predator Medium LED, 5-module, 4000K CCT, 1050mA driver, auto-sensing voltage (120 thru 277), 6x5 beam pattern, tenon slipfitter-knuckle mount, black, 120V photocontrol with 5-pin receptacle, visor.
	Standard Park Light Fixture	Signify Canada Limited	Optima Series LED: Lamp#OT10-80WLED-120V with Photoelectric Cell	#OT10-80W48LED4K-G2-ACDR-LE2A-120-DMG-DF10-HS-[PH8]-BKTX To be used with Lumec Pole: SPR5J-15-BKTX
		StressCrete Ltd.	K134 York: VL 1, 60 Watt, 120 Volt, LED: #K134R-B2PR-III-60(SSL)-104 2120:277-K14-PR	To be used with StressCrete Group Pole: E200-APO-G-E11 c/w 140-35/35 (below)
	Sun Shelter Ceiling Light (Vandal Resistant)	Kenall Manufacturing	Millenium Round MR17 Series	Deep Profile Housing:#MR17FD-PP-MB-50L40K-120BPC (black ); #MR17FD-PP-MW-50L40K-120BPC (white)
Lighting Poles	Flood light pole (7.6m high, galvanized steel) with 180 deg. Bullhorn	Valmont West Coast Engineering Ltd.	Pole: RT-25-11B-2.0, galvanized with black powder coat Bullhorn: BH2-180, galvanized with black powder coat	Pole: Round Tapered Steel Pole, 11 gauge shaft, 178mm Base OD, 254mm BCD, top tenon 60mm OD Bullhorn: Bullhorn for 2 fixtures at 180 deg. apart.
	Standard Park Light Pole (4.6m high, steel)	Signify Canada Limited	Round Steel Pole: #SPR5J-15-BKTX	carbon steel, black textured finish, aluminum base cover with finish to match pole. To be used with Philips Lumec Fixture: #OT10-80W48LED4K-R-ACDRLE2A-120-DF10-HS-(PHS)BKTX
	Standard Park Light Pole (6.1m high, concrete)	StressCrete Ltd.	Octagonal Class A - Light Duty Pole:#E200-APO-G-E11 c/w 14035/35, black etched	To be used with StressCrete Group Fixture: #K134R-B2PR-III-60(SSL)-1042120:277-K14-PR (above)
Spray Pad Activator Buttons	Vandal Resistant Push Button with LED, Momentary	Polara Engineering, Inc.	Bulldog Series III: #BDL3-X	
Swings	CAN/CSA-Z614-14	Landscape Structures Inc.	177350A, with one (1) seat strap and ProGuard chains	Chain length as required to hang on swing structure. Clearances must adhere to CAN/CSA-Z614
Tree Stake Tie	PK-1105.04	DeepRoot Canada Corp.	Arbor Tie	- Trees <150mm Cal.: Arbor Tie Green (900lb. Break strength) - Trees greater than or equal to 150mm Cal.: Arbour Tie White (2,500lb break strength)
		GCS, Inc.	Treestrap	Vstrap, biodegradable cotton
Tree Guard	Plastic Forms 25cm high tree trunk wrap	Arborguard Tree Specialists		