

SUBDIVISION SERVICING BYLAW APPROVED PRODUCTS LIST Administrative Procedure No. 23/22

PURPOSE:

To ensure that quality materials are used in the construction of City infrastructure and to ensure that standard equipment is installed for ease of maintenance and to keep the supply of needed replacement/repair parts to a minimum.

PROCEDURE:

		Item Description	Approved Product	Standard	Comments/ Restrictions
1. Waterwork	ks				
1.1 Pipe	1.1.1	Polyvinyl	Ipex	CSA B137.3	C900 Sizes 100 – 300 mm
		Chloride Pipe	Northern Pipe Products	AWWA C900 DR25, 18 and 14	C905 Sizes 350 – 1200 mm
			Royal Group	AWWA C905 DR51, 41, 32.5, 25, 21 and 18	
1.2 Fittings	1.2.1	Cast Iron Fittings	McAvity	ASTM C110-82	North American Controlled Manufactured
			Terminal City	ASTM B16.1-1975	Push on/Hub fittings only
			Canada Pipe	Epoxy to ANSI/AWWA C116/A21.16.03	17 pound magnesium anodes
			Union Foundry Co.	Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	
	1.2.2	Ductile Iron Fittings	Terminal City	ASTM C153-84	North American Controlled Manufactured
			Union Foundry Co.	ASTM B16.1-1975	Push on/Hub fittings only
			Canada Pipe	Epoxy to ANSI/AWWA C116/A21.16.03	17 pound magnesium anodes
			Star Pipe Products	Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	
			Sigma Corp.		

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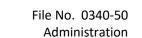
Updated from Procedure Dated: March 28, 2022



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		ltem Description	Approved Product	Standard	Comments/ Restrictions
	1.2.3	PVC Extruded Fittings	lpex Inc.	CSA B137.2 and B137.3	Bends must be Long Radius Type
			Galaxy Plastics LTD.	AWWA C907 (100- 300 mm)	
1.3 Couplings	1.3.1	Couplings	Hymax		Epoxy coated
			Romac Ind.		Type 304 SS Bolts
					Must be manufactured with an anode connection point
					17 pound magnesium anodes
1.4 Restraining Devices			Must meet standards listed	ASTM A536 Grade 65-45-12	Epoxy coated
				ANSI/AWWA C111/A21.11	Type 304 SS Bolts
				ANSI/AWWA C153/A21.53	
1.5 Tapping			Robar	Stainless Steel or	
Sleeves			Terminal City	Epoxy to ANSI/AWWA C116/A21.16.03	
			Hymax	Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	
1.6 Fire Hydrants			Terminal City	AWWA C502	Painted Yellow (Hydrant)
			Clow Canada		Compression Type
					2.75 m Minimum Bury
					17 pound magnesium anodes
					Plug Drain holes
					No stainless steel bolts
1.7 50 mm			Terminal City		Compression Type
Standpipes			Clow Canada		2.75 m Minimum Bury
			Mueller		17 pound magnesium anodes





		Item Description	Approved Product	Standard	Comments/ Restrictions
1.8 Valves	1.8.1	Mainline Gate	Clow Canada	AWWA C509	Resilient Seat
		Valves	Terminal City	Interior to AWWA C550	Sizes 100 – 350 mm
			Mueller	Exterior - Electrostatically	Push on/Hub connections only
				Applied Fusion Bonded	17 pound magnesium anodes
				Epoxy Coated	
	1.8.2	Nelson Type Valve Boxes	Terminal City Iron Works		Terminal City Nelson Type
			Star Pipe Products Dobney		C900 Pipe Riser
	1.8.3	Adjustable Valve Box	EJ Castings		5 – 1/4:" valve box and lid
					In asphalt surface only.
1.9 Water	1.9.1 a	Water Service	Noranda	ANSI H23.1	Type K Soft Copper
Service		Pipe 25 mm	Wolverine	ASTM B88 AD	
		copper	Hai Liang	WWT-799	
			Great Lakes Copper	ASTM F1281 CSA 137.1	
				AWWA C901	
	1.9.1 b	Water Service Pipe 25 mm PEX (cross link polyethylene)	Ipex Blue 904 Rehau	AWWA C904, ASTM F876, ASTM F877, ASTM F2023	Copper tube size
	1.9.2	Water Service Pipe 50 mm	Polytubes - Series 200	Can/CSA B137.1	200 PSI
			lpex – Gold901		HDPE
					Copper Tube Size
	1.9.3	Compression	Mueller	AWWA C907	Compression to compression
		Coupling	Cambridge	CSA B137.2 AND B137.3	
	1.9.4	Water Service Saddles	Robar	2706	Double Strap Stainless Steel
			Mueller	CD2 or SC2	CC Thread
					Epoxy Coated



		Item Description	Approved Product	Standard	Comments/ Restrictions
	1.9.5	Corporation	Mueller		Sizes 19 – 50 mm
		Stops	Cambridge		CC Thread and Compression
	1.9.6	Curb Stop	Mueller		Sizes 10 – 50 mm
		Residential (Stop & Drain)	Cambridge		Full Flow, Full Port
		Irrigation (Stop & Drain)			Comp x Comp
	1.9.7	Service Box	Mueller	CSB1	2.75 m Bury
			Trojan	A726 and A728	Epoxy Stand pipe
				Epoxy Coated Boot	
					Internal Rod 300 to 600 mm below surface



		Item Description	Approved Product	Standard	Comments/ Restrictions
2. Sewer					
2.1 Storm Pipe	2.1.1	Concrete Pipe	Ocean Construction	ASTM C14, C76	600 mm and Larger
			Langley Concrete Group	A443, C655	Type 50 Cement
			Kon Kast		
	2.1.2	Polyvinyl Chloride Pipe	lpex.	CSA B182.2	DR28 100 – 150 mm
			Royal Group	ASTM D2412 AD	DR35 200 – 900 mm
			JM Manufacturing	NQ3624-060	
			Northern Pipe		
	2.1.3	Ultra-Rib	Ipex	CSA B182.4	300 mm and Larger
		Kor Flo	Royal Group	ASTM F794	
	2.1.4	Perma-Loc Class 5	lpex	CSA B182.4	600 mm and Larger
		Kor Flo	Royal Group	ASTM F794	
	2.1.5	Corrugated High Density Polyethylene Pipe	Armtec – Boss 2000	ASTM D3350, CSA B182.8	Bell and Spigot with Gaskets
				ASTM D1248, F667	
	2.1.6	Corrugated Steel Pipe	Armtec (Culverts Only with the exception of round Ultra- flo which may be used as storm sewer)	CSA CAN3- G401, M81	Minimum 2.0mm thickness
			Spir-L-Ok (Culverts Only)		Coating as per Canadian Durability Guideline for CSP - CSPI
	2.1.7	Steel Reinforced Poly-ethylene Pipe	Armtec – Boss 300	CSA B182.14, CSA B182.15	900 mm and larger
			Contech – Duromax	ASTM 2562	Soil tight or low head joints not approved
	2.1.8	Large Diameter High Density Polyethylene Pipe	KWH – Weholite	ASTM F894	900 mm and larger
		pc			Thermal fusion welded joints



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		Item Description	Approved Product	Standard	Comments/ Restrictions
2.2 Vaults		Pre-Cast Reinforced Concrete	Grosso		Precast Concrete
			Kemp		Minimum 960 Opening
			A & E		H20/CS-600 Loading
			Kon Kast		Type 50 Cement
			Langley Concrete Group		
2.3 Catchbasins	2.3.1	Barrels	Grosso	ASTM C478	Pre-Cast Concrete
			Kon Kast		600mm Diameter
			Ocean		1500mm Deep
			Langley Concrete Group		H20/CS-600 Loading
					Type 50 Cement
	2.3.2	Complete Bases and Lids	Grosso	ASTM 478	Pre-Cast Concrete
			Kemp		360 maximum 640 mm Opening
			Kon Kast		H20/CS-600 Loading
			Ocean		Type 50 Cement
			Langley Concrete Group		
	2.3.3	Lawn Basin	Langley Concrete Group		Dobney B22A grate
			Ocean		Type 50 Cement
			Le-Ron Plastics Inc.		
	2.3.4	Frame and Grate	Dobney Foundry		Type 1 B23 Grate and 24 Frame LH or RH
			Langley Concrete Group		Type B18 Grate and 1 Frame LH or RH
			Norwood Foundry		Grate to Indicate that stormwater drains to fish habitat or stream
2.4 Headwalls		Pre-Cast Concrete	Grosso		Pre-Cast Concrete
			Kemp		Type 50 Cement
			Kon Kast		
			Langley Concrete Group		
			J&J Drainage Products		



		Item Description	Approved Product	Standard	Comments/ Restrictions
2.5 Storm and	2.5.1	Barrels-Storm	Grosso	ASTM C478	Pre-Cast Concrete
Sanitary Manholes			Kemp		Minimum 1050 mm
iviaiiiioies			Kon Kast		H20/CS-600 Loading
			Ocean		Type 50 Cement
			Langley Concrete Group		
		Barrels-Sanitary	Ipex	ASTM C478	PVC
			Grosso	(concrete)	1200 mm diameter
			Kemp		Pre-Cast Concrete
			Kon Kast		H20/CS-600 Loading
			Ocean		Type 50 Cement
			Langley Concrete Group		Concrete barrels must have an approved riser wrap to reduce infiltration
		Riser wrap – Sanitary	Wrapid Seal		300 mm wide centered
		Manholes	Воа Таре		on joints
			RiserWrap		
	2.5.2	2.5.2 Concrete Lid-Storm	Grosso	ASTM C478	Pre-Cast Concrete
			Kemp		Minimum 1050 mm
			Kon Kast		H20/CS-600 Loading
			Ocean		Type 50 Cement
	2.5.3	B Pre-Cast Bases- Storm	Grosso		Type 50 Cement
			Kemp		
			Kon Kast		
			Ocean		
			Langley Concrete Group		
		Pre-Cast Bases- Sanitary	As per approved Barrels with HDPE liner (Predl)		Lined with HDPE
					Type 50 Cement
	2.5.4	Frame and Cover	Dobney Foundry		C18 Frame and Cover
			Langley Concrete Group		C18D Frame and Cover
			Norwood Foundry		H20/CS-600 Loading
					TF-39
					Boulevard and landscaped areas only



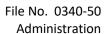
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		Item Description	Approved Product	Standard	Comments/ Restrictions	
	2.5.5	Adjustable Frame	EJ Castings	ASTM A536	AJ633ESR	
		and Cover			In asphalt surfaces only	
2.6 Sanitary	2.6.2	PVC Pipe	lpex	CSA B182.2	DR28 100 – 150 mm	
Sewer Pipe			Northern Pipe Products	ASTM D2412 and NQ3624- 060	DR35 200 – 1050 mm	
			Royal Group			
2.7 Services –	2.7.1 -	PVC Pipe	Ipex	CSA B182.2	DR28 100 – 150 mm	
Sanitary & Storm	Sanitary		Northern Pipe Products	ASTM B2412		
Storm			Royal Group	AD NQ 3624- 060		
	2.7.2 -	PVC Pipe	Ipex	CSA B182.2	DR28 100 – 150 mm	
	Storm	Storm		Northern Pipe Products	ASTM D2412 and NQ3624- 060	DR35 150mm and up
			Royal Group			
	2.7.3	Service Wyes and Fittings	lpex	CSA B182.2	DR28/35 Bell and Spigot	
			Le-Ron Plastics Inc.	ASTM D3034, AD F1336	All new mainline construction	
			Galaxy Plastic Ltd			
	2.7.4	Saddles	Ipex	CSA B182.2	Double Strap Wye	
			Le-Ron Plastics Inc.	ASTM D3034	Only on existing mains	
			Galaxy Plastics Ltd	ASTM F1336		
2.8 Forcemains	2.8.1	PVC Pipe & Fittings	lpex	CSA B137.3	C900 Sizes 100 – 300 mm	
			Northern Pipe Products	AWWA C900 DR25, 18 and 14	C905 Sizes 350 – 1200 mm	
			Royal Flex-Loc	AWWA C905 DR51, 41, 32.5, 25, 21 and 18		
	2.8.2	High Density	KWH Pipe	AWWA C906	DR7.3 to DR32.5	
		Polyethylene (HDPE) Pipe and Fittings	Global Poly Systems Inc.			
		1 · · · · · · · · · · · · · · · · · ·	Performance Pipe			

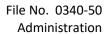


	Item Description	Approved Product	Standard	Comments/ Restrictions
2.8.3	Valves	Clow	Gate valves to	Resilient Seat
		Terminal City	AWWA C509	Sizes 100 – 350 mm
		Mueller		
2.8.4	Services	See 1.9 Water Services		



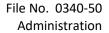


	Item Description	Approved Product	Standard	Comments/ Restrictions
. Street Lighting				
3.1	Roadway Lighting	NXT Series		NXT – 36S or larger on roadways
3.2	Poles	Nova Pole	CAN/CSA S6-2006	Hot dipped galvanized steel in
		West Coast Engineering	ANS CSA 22.2 NO. 206	accordance with SSPC-SP7
		Or approved equal		
3.3	Conduit	IPEX	CSA C 22.2 NO.	RPVC as per Canadian Electric
		Or equivalent	211.1	Code
3.4	Fittings	IPEX	CSA C22.2 NO. 85	RPVC as per Canadian Electric
		Or equivalent		Code
3.5	Junction Boxes	Nova Pole	Confirm to section 201 plastic junction boxes	Large size only
3.6	Service Panel	Valid Manufacturing	CSA type 3R rated	Model# BSD6A24CQ
				Marine grade aluminum.
				Powder coated grey.
				Wired to MMCD E 7.5 40/60 amp
3.7	Service Base	Nova Pole		Hot dipped galvanized steel in
		West Coast Engineering		accordance with SSPC-SP7
3.8	Conductors		CSA C22.2 NO. 38	Single conductor 600V
				Stranded copper with RW90 polyethylene insulation.
				Colour coded per Canadian Electric Code.
3.9	Conductor Connectors		Rated 105C as per Canadian Electric Code	Screw on type
3.1	Fuse Holders	Tron	CSA 6225-01	5 amp fuse with 2 insulating
			UL IZLT2	boots
3.11	Concrete Bases		As per MMCD	Pre-Cast Concrete
			drawing CE1.3	Type C for 9m davit
				Type C1 for 8.1m davit on service base





		Item Description	Approved Product	Model #	Supplier	Comments
4.Furnishings						
4.1 Benches	4.1.1	Park & Trail Benches	Contemporary 6' Bench- Port/Surf Mt-Diamond	CN420D Green	Sudden Fun	includes mounting plate MC104N set of 4
	4.1.2	Woodlawn Cemetery Benches	Green Valley 6' Bench with black recycled plastic lumber Portable /surface mount	GV420G	Sudden Fun	Colour Cedar with Black frame
4.2. Garbage Cans	4.2.1	32 Gallon Receptacle	Flare top- Diamond	FR4000D	Sudden Fun	Colour Green - comes with 32 gallon liner # LR310N
	4.2.1	Flat Top Solid Bonnet	Outward Opening	SB105N	Sudden Fun	
4.3 Deep Garbage	4.3.1	Max 30	EQNX 48" x 128"	05-05- 0262	Equinox Environment Products	
4.4 Picnic Tables	4.4.1	Signature 6' Table	2 3/8" Legs- Diamond	SG106D Green	Sudden Fun	
	4.4.2	Surface Mount Package	2 3/8" Legs	SG135N	Sudden Fun	Set of 2



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Approved Plantings for City of Fort St John

Caanaitiya	11 madarata	T toloront
S=sensitive	M=moderate	ı=toteranı

Deciduous							
Common Name	Latin Name	Zone	Salt	Wet	Notes		
Maple	Acer negundo 'Sensation'	2			Fall Colour		
Tartarian Maple	Acer tartaricum spp. Ginnala	3	М		small tree, F.C.		
Silver Maple	Acer saccharinum	3	М	М	needs space		
Dakota Pinacle Birch	Betula papyrifera 'Dak. Pin.'	3			med. tree, F.C.		
Paper Birch	Betula papyrifera 'Snowy'	2	М		white bark		
Northern Hackberry	Celtis occidentalis	3	S		large tree		
Hawthorn	Crataegus var. 'Snowbird'	3	S		small tree		
Foothills Green Ash	Fraxinus 'Foothills Gr. Ash	3					
Black Ash	Fraxinus Nigra	2					
Fall Gold Ash	Fraxinus Nigra 'Fall Gold'	3					
Green Ash	Fraxinus pennsylvanica	3	S		aka Manchurian Ash		
Prairie Spire Ash	Frax. Penns. 'Rugby'	2	S		good ground clearance		
Patmore Ash	Frax. Penns. 'Patmore'	2			street tree		
Northern Treasure	Fraxinus X	2			very tall canopy		
Northern Gem Ash	Frax. X 'Northern Gem'	2			tall canopy		
Seabuckthorn	Hippophae rhamnoides	3	T		grey colored leaves		
Royalty Flow. Crab	Malus 'Royalty'	2			dark purple leaves		
Spring Snow Fl. Crab	Malus 'Spring Snow'	2					
Thunderchild Fl. Crab	Malus 'Thunderchild'	3	М		purplish/red leaves		
Starlite Flow. Crab	Malus X 'Jeflite'	2					
Okanese Poplar	Populus 'Okanese'	2	М	Т	tolerates drought		
Praire Sky Poplar	Populus 'Prairie Sky'	2	T	Т	Interspecific Hybrid		
Swedish Aspen	Populus tremula erecta	2			columnar		
Trembling Aspen	Populus tremuloides	1	T	T	drought tolerant		
Assiniboine Poplar	Populus X Assiniboine	2	М	М			
Tower Poplar	Populus X Canescens	2	T	М	colum., full sun, bigger		
Early Gold Pear	Pyrus Ussuriensis 'Early Gold'	2	М				
Bur Oak	Quercus macrocarpa	3	М				
Laurel Leaf Willow	Salix pentandra	3	М		needs space		
European Mtn. Ash	Sorbus aucuparia	2		S	small tree, berries		
Japanese Tree Lilac	Syringa reticulate	3	T		sunny location		



Common Name	Latin Name	Zone	Salt	Wet	Notes
Americana Linden	Tilia Americana	3	S		Bee tree
Little Leaf Linden	Tilia cordata 'Little Leaf'	3	М		water if salt (b.tree)
Greenspire Linden	Tilia cordata 'Greenspire'	3			stem girdling (b.tree)
Dropmore Linden	Tilia X flavescens 'Dropmore'	3			Interspecific Hybrid
		Evergreen			
Common Name	Latin Name	Zone	Salt	Wet	Notes
Balsam Fir	Abies Balsamea	3			
Eastern Red Cedar	Juniperus virginiana	3	М		
Tamarack	Larix laricina	2	Т	Т	deciduous evergreen
Siberian larch	Larix siberica	2	М		
White Spruce	Picea gaica	2	S		
Colorado Blue Spr	Picea pungens	2	S		
Norway Spruce	Picea p. 'Norway'	2	S	T	
Lodge pole Pine	Pinus 'Lodgepole'	1			
Red Pine	Pinus 'Red'	1	S		
Scots Pine	Pinus 'Scots'	2	S		
Eastern White Cedar	Thuja occidentalis	3	S		



Grass Hydroseed Mix

Parks and Greenspaces					
Borealis Lawn Mix					
60% Creeping Red Fescue	Very hardy in northern region				
20% Kentucky Bluegrass	Dark color blue-green Good for longer dry spells, good for high foot traffic				
20% Perennial Rye Grass					
Boulevards					
For boulevards near salt roads, the grass blend shall include alkaligrass.					
Some of the other grasses may not survive right next to the road					
where there is high pH soil but will support erosion control, and					
help the alkaligrass to establish.					
30% Alkaligrass	For high pH soil				
30% Creeping Red Fescue					
20% Kentucky Bluegrass					
20% Perennial Rye grass					
Roadside Allowances	T				
Roadside allowances (E.g. Alaska highway) and/or MOTI ditches as					
of 2020 uses the following. The City can utilize this blend in specific					
areas. (E.g. Bypass ditches)					
North East General Mix 25%					
Creeping Red Fescue 30%					
Perennial Ryegrass 30%					
Tall Fescue 15%					