

APPROVED PRODUCTS LIST

This Reference Document lists materials and products approved, restricted, or not allowed for Works and Services performed within the City of Courtenay.

If a material or product is not listed in relation to an MMCD or a Supplementary Specification, any product meeting the listed specified requirements of such specification shall be accepted, and specifications shall prevail Brand & Model.

Where specified brand names are specified for a product(Unless otherwise specified), any proposal for an alternate product as long as it meets the listed specified requirements of such specification shall be accepted. Where not specified, it will require the approval of the Cities Approved product committee.

MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional				
Section 03 40 01	Description Model Specifications Precast Concrete Image: Conconconconcrete								
		Concrete Fence for Arterial Roads	 American Technocrete Approved equal 	Woodcrete Wall, Buffer Color	• Posts at 1.5m c/c				
		Concrete Fence for Wet Detention Pond	 American Technocrete Approved equal 	Woodcrete Rail, Buffer Color	Post at 2.44 c/c & 2 Rail Fence				
		Concrete MSE Retaining Wall	Langley PrecastOcean Precast						
26 56 01	Roadway Lighting	-	- Occuminedat						
	Products	LED Luminaires	Philips	Roadfocus	3000 K, RFS, RFM and RFL Series, as applicable				



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional				
Section	Description			Model	Specifications				
31 11 45	Shrub and Tree Preservation								
		Snow Fence	Dupont	• L-70					
			Bupont	5 270					
32 92 19	Hydraulic Seeding								
	Fertilizer		Direct Solutions	• 20-2-16					
32 93 01	Planting of Trees, S	hrubs and Ground-co	overs		1				
		Tree Guy Anchors	Tree Guy Systems	Arrow Anchor					
		Tree Trunk Protection	Deep Roots Products	Arborgard					
		Tree Ties	Deep Roots Products	Arbor Tie					
	Misc. Products	Root Barrier	Deep Roots Products	• UB 18-2					
		Adhesive	OSI Sealants	• PL 200					
		Drain Mat	Nilex Geotextile	 Nudrain WD/15 					
		Filter Fabric	Nilex Geotextile	• Nilex 4545					
32 94 015	Irrigation System								
52 54 015									
	Backflow Prevention		Watts	Model 007-QT	• CSA, FUS, AWWA C511				
	Device Electronic Control		Rain Bird	EFB CP Series	• < 75mm				
	Valves			Brass					
				300 BPES Series Brass	● ≥75mm				
	Master Valve		Rain Bird	 EFB CP Series Brass 	 < 75mm ≥ 75mm 				
				• 300 BPES					
				Series Brass					
				 PEB Series Valves 					
	Pressure		Toro	• EZR-100					
	Regulating		Rain Bird	PRS-Dial					
	Modules Automatic		Toro	Sentinel					
	Controllers			Satellite Controller					
	Control Wire	Wire	Paige Wire	• P7079D	Common Wire to be min. 14- gauge				
					Master Valve Wire to be min. 14-gauge				



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
Section	Description			Model	Specifications
		Flow / pulse transmitter wiring	Belden	• PE39	8mm Aluminum Polyester Shield
					Black HDPE Jacket
		Wire splice	 3MRainbird	DBY connectorWPSK 20	
	Sprinkler Heads		ToroRain BirdHunter		Additions to existing irrigation systems to be same product
33 11 01	Waterworks		1	1	
	Water Main Ductile Iron	Ductile Iron	McWane GroupUS Pipe		CL 50 for all mains less than 400mm dia. and Pressure Class 350 for all mains larger than 400mm dia.
	Water Main PVC	PVC PVCO	 Ipex Westlake Pipe & Fittings 	 Blue Brute Bionax 	PVC pipe to AWWA C900 / DR18 Minimum. Compliance with MMCD updated Section 33 11 01 2.2.2.2 for thickened bell and spigot pipe. All PVC / PVCO water mains shall be pigmented blue. AWWA C900, C909 CSA B137.3 Nitrile gasket shall be used when hydro carbon is encountered in surrounding soil. Bionax to be accepted for use in seismic condition
	Water Main HDPE	• HDPE	 KWH Pipe Isco Pipe Polytubes	SclairpipeWL Plastics	ASTM F714 AWWA C906
	Water Main Fitting Ductile Iron	Ductile Iron	 Terminal City Iron Works Sigma 		AWWA C153 AWWA C110
	PVC Injection	PVC	IPEX		AWWA C907
	Molded Fittings	• PVCO	WestlakeProline		CSA B137.2
	PVC Fabricated Fittings	PVC PVCO	 IPEX Westlake Galaxy Plastics Proline 		AWWA C900 CSA B137.3
	Nuts and Bolts	Stainless Steel ASTM A194 type 304			
	Tie Rod	Zinc or Cadmium Plated ASTM A354 Grade BC Steel	Cor-ten Steel		



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional	
Section	Description			Model	Specifications	
	Couplings and Flange Coupling Adapters	Plain End Coupler	 Robar Smith-Blair Mueller Ford 	 Robar 1506 Robar 1696 Smith-Blair 441,421 Mueller MRC Ford FC1 	Meets applicable portions of AWWA C219 Meets requirements of AWWA C213 Certified to NSF-61 Certified to NSF-372	
		Flanged Adapter	 Robar Smith-Blair Mueller EBAA Clow 	 Pold PC1 Robar 7504/06 Robar 7906 Smith-Blair912 Mueller EBAA Iron 1000 Clow Series 40, DI Clow Series 90, PVC 	Meets applicable portions of AWWA C219 Meets requirements of AWWA C213 Certified to NSF-61 Certified to NSF-372	
		Restrained Flange Adaptors	 Uniflange EBAA Smith Blair 	 Uniflange RFAP EBAA 2100 Smith Blair 920-PVC, 911- DI 	Meets applicable portions of AWWA C207 Meets requirements of AWWA C213 Certified to NSF-61 Certified to NSF-372	
		Repair Clamps	 Canpac/Proline Mueller Robar Clow 	 Canpac CR-2 Mueller 520 Robar 5600 Rc Clow 100, 200, 300 	Meets applicable portions of AWWA C230 Certified to NSF-61 Certified to NSF-372 Repair clamps shall be stainless steel	
	Joint Restraint Ductile Iron Mains		 UniFlange Series 1400 EBAA Iron Clow 	 UniFlange Series 1400 EBAA Iron Megalug1700 Clow Tufgrip TDG 	ANSI/AWWA C111/A22.11 ANSI/AWWA C153/A21.53 All joint restraints shall have a pressure rating equal or greater than the mainline pipe.	
	Joint Restraint PVC / PVCO Mains		 UniFlange EBAA Iron Clow Sigma Star Pipe 	 UniFlange Series 1300 EBAA Iron MJ Series 1500 EBAA Iron 1900 300 Series 	ASTM A536 ANSI/AWWA C111/A21/11 ASTM A36 No wedge action type for PVC or PVCO pipes. Restraint systems for PVC or PVCO pipe shall be approved by the pipe manufacturer to not reduce the pipe recommended working pressure.	
	Restrained Joint Pipe Systems (PVC)		 IpexWestlake	 Ipex Terra Brute Westlake Certa-Lok 		
	Restrained Joint Pipe Systems (DI)		US PipeMcWane	 Field-Lok Gasket 		



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
Section	Description			Model	Specifications
				 SureStop Gasket 	
	Valves	75 mm – 300 mm Resilient-seated	MuellerClow CanadaTerminal City	Mueller A2362Clow 6100	All valves shall have epoxy coated ductile iron body with Stainless Steel Bolts
	Blow off Valve	50mm Resilient Seat Gate Valve	Mueller Clow	 Mueller A2360 Clow F6103 	
	Air Valve		 Apco Val-Matic Crispin ARI	 APCO 143C Val-Matic 201C Crispin UL 	Internally Coated or Composite
	Water Valve Box		Terminal CityDobneySigma	• Square Robar	Square type Cover shall be marked with "Water".
	Curb Stop Box		DobneyTrojanMueller		Circular Telescoping
	Joint Protection	Petrolatum Tape & Mastic	 Petrowrap Trenton Tec Tape Denso PCS 		AWWA C209 AWWA C214 AWWA C217-90 AWWA C217-16
	Water Service Connection	Type K Copper – 19mm to 75mm			ASTM B88M
		Polyethylene	• Rehau	 Rehau Municipex (Pex A) Aquapure 	With 10 Gauge Tracer Wire (AWG) AWWAC904 ASTM F1807 / 2159 / 2098 / 2080
	Saddles for Ductile Iron Mains		RobarCanpacMueller	 Smith Blair 313 Mueller DR2A Romac 202BS 2506/2508 	Meets applicable AWWA C800 standards Meets requirements for AWWA C213 NSF-61 Certified NSF-372 Certified
	Saddles for PVC / PVCO Main		 Canpac Robar Cambridge Brass 	 Series 812 SC-2 2600 Series Covers (2616,2626,26 36) 	Meets applicable AWWA C800 standards Meets requirements for AWWA C230 NSF-61 Certified NSF-372 Certified Saddles required for service installation on all PVC / PVCO mains - Bronze body with stainless steel straps or Full SS Wrap
	Tapping Sleeve for PVCO		• JCM	 Ford FS313 JCM 422 Series SST Series 6606 & 6906 	Meets applicable portions of AWWA C223 Meets requirements for AWWA C213 Certified to NSF-61 Certified to NSF-372



MMCD	Section	Product	Manufacturer	Approved Model	Restrictions/Additional
Section	Description				Specifications
	Abandon Service Sleeve		Robar	• 6636AS	NC T 304 SS Const Bolted bracket or lifter bar
	Hydrant		Terminal CityMueller Co.Clow	 C71P – H105 Modern Centurion (A- 442) 2780 M93 	Must have 100mm Storz fitting on pumper port Paint colors shall be as follows: • Red body • White top • 2 white side ports
	Corporation Stop	Full Port Ball Valve	CambridgeFordMueller	Cambridge 301Ford FB600Mueller	 black Storz Shall be full-port ball valve to 50 mm only. Use mainline gate valve for
			Al-MacDonald	B25008 • Al-MacDonald 4700	sizes >50 mm AWWA C800,NSF 61, NSF 372, ASTM B584 & B62
	Curb Stop	Full Port Ball Valve	 Cambridge Ford Mueller AY-MacDonald 	 Cambridge 202 Ford B44-343G Mueller B25209 AY-MacDonald 6100 	Shall be full-port ball valve to 50 mm with 90 ⁰ turn stop. Use mainline gate valve for larger sizes > 50mm AWWA C800,NSF 61, NSF 372, ASTM B584 & B62
	Meter Setters		Cambridge Brass	 1" 6031 Series 1 ½" - 2" 6020 series 	C/W Stop, DC & Extend LEG AWWA C800,NSF 61, NSF 372, ASTM B584 & B62
	ldler Bar		Cambridge Brass	 450 Plastic (25mm Service Connection) 450NL Copper (50mm Service Connection) 	AWWA C800,NSF 61, NSF 372, ASTM B584 & B62
	Meter Pits		 Langley Concrete AE Concrete Armtec 	 Type#66 with cast iron Lid for 25mm 5686 with steel lid for 50mm 	
	Meter Chambers		Armtec	• 2121.5	With Aluminum spring assisted double lids.
	Casing Spacers	As shown on contract drawings	UniflangeCalpicoAPS	UniflangeCalpicoAPS Casing Spacers	No AWWA standard for this part
	Pressure Reducing Valve Stations (PRV)	 PRV Valve Limit Switch Indicator Valve Position Indicator 	SingerSingerSinger	Singer 106-PRSinger X129Singer X156	Epoxy coated
		 Strainer Domestic flow indicator 	SingerSinger	 J1521M Arion Strainer SPI-MV Flow Meter 	



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional				
Section	Description			Model	Specifications				
		Pressure	Emerson-	• 2088					
		Transducer	Rosemount						
		PLC	 Scada pack 	 Scada pack 					
		• HMI	Maple Systems,	334					
			or equivalent						
33 30 01	Canitan Course	Router	SonicWall						
33 30 01	Sanitary Sewers								
	Fabricated PVC				CSA B181, CSA B182.1, CSA				
	Fittings		Calaura		182.2, CSA B182.4 CSA B182.2				
	Fittings		Galaxy		CSA B182.2				
			Pro-line						
			 IpexWestlake						
			• Westlake						
	Concrete				Not permitted				
	PVC Pipe,	PVC SDR35	IPEX	IPEX Ring-Tite	Sizes > than 750 mm to be				
	Mainline Smooth		Westlake	Gasketed	approved by City				
	Profile		• JM Eagle	Sewer	CSA B182,2 ASTM				
			_		D3034, ASTM D 3212				
					ASTMF477				
	Sanitary Service	PVC SDR28	IPEX	 IPEX Ring-Tite 	New PVC main: use				
	Pipe	Min 100mm	Royal	 Gasketed 	manufactured wyes. Existing				
		diameter	 JM Eagle 	Sewer	mains: use manufactured				
					wyes, strap saddles or				
					insertable tees. Protrusion				
					saddles not approved.				
	Sanitary Service		Romac	Romac Sewer	CSA B182,2 ASTM				
	Connections		Clow	Saddle	D3034, ASTM D 3212				
			•	• Clow D-50	ASTMF477				
	Inspection	Inspection	Westlake		CSA B182,2 ASTM				
	Chamber	Chamber	Pro-line		D3034, ASTM D 3212				
			Galaxy Plastics		ASTMF477				
		Inspection	Westlake		B181 & CSA 182.1				
		Chamber Back-	Pro-line						
		flow check valve	Galaxy Plastics						
	Service Connection Boxes		AE Concrete	Series B937					
	Repair Couplers		Rollee,		Couplers shall have				
			 Fernco, 		appropriate adaptor gaskets				
					to suit OD of pipe material				
					being coupled – full stainless				
	-				steel wrap				
33 34 01	Sewage Forcemains								
	Pipes, Joints and Fi	ttings							
		HDPE with fusion	Sclairpipe	Sclairpipe	AWWA C906				
		welded joints	Drisco Pipe	DriscoPlex					
			ISCO Pipe	WL Plastics					



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional				
Section	Description			Model	Specifications				
	Valve Chamber		Dobney	Dobney C20					
33 40 01	Storm Sewers								
	Fabricated PVC Fittings				CSA B181, CSA B182.1, CSA 182.2, CSA B182.4				
	Fittings		 Galaxy Proline Ipex Westlake 		B182.2				
	Concrete Pipe	Non-reinforced Concrete C14-3 Reinforced Concrete C76-III, IV, and V	 Langley Concrete and Tiles Ocean Pipe 		PPP or Q-Cast Certified				
	PVC Pipe, Mainline Smooth Wall	PVC SDR35	IPEXWestlakeJM Eagle	 IPEX Ring-Tite Gasketed Sewer 	Sizes > than 750 mm to be approved by the City Engineer				
	PVC Pipe, Mainline Profile		 IpexWestlake	 Ipex UltraRib Westlake Kor- Flo 	Concentric ribbed pipe only is permitted to 900 mm, No spiral ribbed pipe will be allowed. CSA B 182.4				
	HDPE Pipe, Mainline Open Profile		ArmtecADS	 Armtec Boss 2000 ADS N-12 	CSA B182.8 with Type 1 Water tight joint				
	Service Connection pipe	PVC SDR28 Min 150mm diameter	IPEXWestlakeJM Eagle	 IPEX Ring-Tite Gasketed Sewer 	CSA B182.2 ASTM D3034				
	Storm Service Connections		ADSGalaxy	 ADS Inserta Tee ADS One fit Inserta Tee Galaxy EZ-Tee 	CSA B182.2				
	Inspection Chamber	Inspection Chamber	WestlakePro-lineGalaxy Plastics		CSA B182.2 ASTM D3034, ASTM D3212 & ASTM F474				
	Service Connection Boxes		AE Concrete	Series 937					
33 42 13	Pipe Culverts	·		·					
	End Walls	Concrete	Langley Concrete and Tiles Ocean Pipe		Q-Cast Certified PPP Certified				
		Fiberglass Composite	CIF Composites	• Ecolite					
		Mechanically Stabilized Earth (MSE)	• Flex MSE	Flex MSE					
33 44 01	Manholes and Catchbasins								



MMCD	Section	Product		Manufacturer	Approved	Restrictions/Additional	
Section	Description				Model	Specificat	ions
				,			
	Manhole Frame and Cover			 Dobney Westview Sales Ltd. TC 	 C-18 C-18ADJ C-18LP 	Sanitary Sewer m. shall be marked " SEWER" Storm Sewer man shall be marked " SEWER" MMCD	SANITARY hole lids
	Catch Basin and Other Castings	CB Frame		 Dobney Westview Sales Ltd. Terminal City 	 B50 B24 ADJ B24D 	MMCD	
		CB Grate		 Dobney Westview Sales Ltd. Terminal City 	 B50 B23 left or right B24 Hood Only 	MMCD	
		Lawn Basir (1050mm I		 Dobney Westview Sales Ltd. TC 	•	MMCD	
	Hydro-dynamic grit Separator			 Langley Concrete and Tiles Contech 	 Stormceptor Vorsentry CDS 		
33 49 23	Storm Drainage Water Retention Systems						
	Polypropylene Arcl	hed Chamber					
	Polyethylene Arched Chamber			Contech	Chambremaxx		
		_		 Brentwood Industries 	Stormtank		
34 41 13	Traffic Signals			•	•		
	Siren Activated Em Pre-emption	ergency	Traffic S	Systems LLC	Sonem 2000		
		Audible Sig	nals	 Polara Enterprises 	Navigator APS		
		LED Lumina	aires	Philips	Roadfocus	3000 K, RFS, RFN Series, as app	
		Traffic Controllers		Econolite	Cobalt		
	Sanitary Lift Station Components			•	•		
	Standards for Sanit	ary Lift Statio	ons				
	Submersible Pumps	Flygt		•	Specific model to be approved by Utilities Manager	Non-Clogging	
		Flush Valve		 Flygt 	Model 4901	Or Approved Equa	

ADS



MMCD Section	Section Description	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Wet Well	• Xylem	FRP	Engineered & Prefabricated
		Portable Lifting Davit	• DBI SALA	 8510311 w/ Davit Arm 8517412 including tie off 8516691 8510816 	
		НМІ			To be confirmed by the City
		Controller	Allen Bradley	5069 Compact Logix with Compact IO	To be confirmed by the City
		SCADA	Flygt / Allied Control Systems		Must be compatible with City Scada system to be approved by City
		Float Switches	Xylem	tree type (mercury)	Or Approved Equal (must be CSA certified)
	Walkway Bridges	Vehicle Access			Min 3.2m Wide Min. 3500Kg Capacity Engineered Aluminum construction or other no Wood construction.
		Pedestrian			Min 2.0m Wide or to Trail Specification as approved by City Engineered Aluminum construction or other not Wood