

APPROVED PRODUCTS LIST

This Reference Document lists materials and products that are either 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 requirements of such specification shall be accepted.

Where brand names are specified for a product, any proposal for an alternate product requires the approval of the Director of Engineering.

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MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
Section	Description			Model	Specifications
03 40 01	Precast Concrete				
		Concrete Fence for Arterial Roads	American TechnocreteApproved equal	Woodcrete Wall, Buffer Color	Posts at 1.5m c/c
		Concrete Fence for Wet Detention Pond	American TechnocreteApproved equal	Woodcrete Rail, Buffer Colour	Post at 2.44 c/c & 2 Rail Fence
		Concrete MSE Retaining Wall	Langley PrecastOcean Precast		
26 56 01	Roadway Lighting				
	Products	LED Luminaires	• Philips	Roadfocus	3000 K, RFS, RFM and RFL Series, as applicable
31 11 45	Shrub and Tree Pr	eservation			
		Snow Fence	Dupont	• L-70	
32 92 19	Hydraulic Seeding	,			
	Fertilizer		Direct Solutions	• 20-2-16	
32 93 01	Planting of Trees,	Shrubs 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	• deeproot	• UB 18-2	
		Adhesive	OSI Sealants	• PL 200	
		Drain Mat	Nilex Geotextile	Nudrain WD/15	
		Filter Fabric	Nilex Geotextile	• Nilex 4545	



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32 94 01S	Irrigation System				
	Backflow Prevention Device		Watts	Model 007-QT	
	Electronic Control Valves		Rain Bird	EFB CP Series Brass300 BPES Series Brass	• < 75mm • ≥ 75mm
	Master Valve		Rain Bird	EFB CP Series Brass300 BPES Series Brass	• < 75mm ≥ 75mm
	Pressure Regulating Modules		ToroRain Bird	• EZR-100 • PRS-Dial	
	Automatic Controllers		• Toro	Sentinel Satellite Controller	
	Control Wire	Wire	Paige Wire	• P7079D	Common Wire to be min. 14-gauge
					Master Valve Wire to be min. 14-gauge
		Flow / pulse transmitter wiring	Belden	• PE39	8mm Aluminum Polyester Shield Black HDPE Jacket
		Wire splice	• 3M	DBY connector	
	Sprinkler Heads		Toro Rain Bird Hunter		Additions to existing irrigation systems to be same product
33 11 01	Waterworks				
	Water Main Ductile Iron	Ductile Iron	McWane Group US 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	Royal Pipe Systems	Blue BruteSealBionax	PVC pipe to AWWA C900 / C 905/ C 909 – 100 mm to 300 mm diameter 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. Nitro gasket shall be used when hydro carbon is encountered in surrounding soil.



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					Bionax to be accepted for use in seismic condition
	Water Main	HDPE	KWH Pipe	Sclairpipe	AWWA C 153
	HDPE		Isco Pipe	WL Plastics	AWWA C110
			 Polytubes 		
	Water Main	Ductile Iron	Terminal City		
	Fitting Ductile		Iron Works		
	Iron		Sigma		
	PVC Injection	• PVC	IPEX		
	Molded Fittings	• PVCO	Royal		
	PVC Fabricated	• PVC	IPEX		
	Fittings	• PVCO	Pro-line		
			Galaxy Plastics		
	Nuts and Bolts	Stainless Steel			
		ASTM A194 type			
	Tie Rod	304 Zinc or Cadmium	Cor-ten Steel		
	rie koa	Plated ASTM	Cor-ten Steel		
		A354 Grade BC			
		Steel			
	Couplings and	Plain End Coupler	Robar	• Robar 1408	
	Flange Coupling	·	Smith-Blair	Smith-Blair441	
	Adapters		Romac	• Romac 501	
			Mueller	Mueller MRC	
			• Ford	 Ford FC1 	
		Flanged Adapter	Robar	• Robar 7404/6	
			Smith-Blair	• Smith-Blair912	
			Romac	• Romac	
			Mueller	 Mueller 	
			• EBAA	EBAA Iron	
			• Clow	1000	
				• Clow Series 40,	
				DI	
				 Clow Series 90, PVC 	
		Restrained Flange	Romac	Romac RFCA	
		Adaptors	Uniflange	Uniflange	
			• EBAA	RFAP	
				• EBAA 2100	
		Repair Clamps	Canpac	Canpac CR-2	Repair clamps shall be
			Mueller	Mueller 520	stainless steel
			Robar	Robar 400 and	
			• Clow	1500	
			Romac	• Clow 100, 200,	
				300	
	Joint Restraint		• UniFlance	Romac SS2 UniFlance	All joint restraints shall have a
	Ductile Iron		 UniFlange Series 1400 	UniFlange Series 1400	pressure rating equal or
	Mains		• EBAA Iron	• EBAA Iron	greater than the mainline
			• Clow	Megalug1700	pipe.
				Clow Tufgrip	` `
				TDG	



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	Joint Restraint PVC / PVCO Mains		UniFlangeEBAA IronRomac	 UniFlange Series 1300 EBAA Iron MJ Series 1500 EBAA Iron 1900 Romac Alpha 	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)		Ipex Royal	Ipex Terra Brute Royal Cobra Lock	•
	Restrained Joint Pipe Systems (DI)		US Pipe McWane	Field-Lok GasketSureStop Gasket	
	Valves and Valve Boxes	75 mm – 300 mm Resilient-seated	MuellerClow CanadaAVKDobneyTerminal City	Mueller A2362Clow 6100AVK	All valves shall have epoxy coated ductile iron body with Stainless Steel Bolts
	Blowoff Valve	50mm Resilient Seat Gate Valve	AVKMuellerClow	AVKMueller A2360Clow F6103	
	Air Valve		ApcoVal-MaticCrispin	APCO 143CVal-Matic201CCrispin UL	Internally Coated
	Water Valve Box		Terminal CityDobneySigma		Square type Cover shall be marked with "Water".
	Curb Stop Box		DobneyTrojanMueller		Square type Cover shall be marked with "Water".
	Joint Protection	Petrolatum Tape & Mastic	PetrowrapTrenton Tec TapeDenso		AWWA C209 AWWA C214 AWWA C217-90
	Water Service Connection	Type K Copper – 19mm to 75mm			ASTM B88M
		Polyethylene	• Rehau	 Rehau Municipex (PexA) 	With 10 Gauge Tracer Wire (AWG)
	Saddles for Ductile Iron Mains		RobarCanpacMuellerRomac	Robar 2406/8Canpac 313Mueller DR2ARomac 202BS	
	Saddles for PVC / PVCO Main		CanpacRobarCambridge Brass	Series 81Z	Saddles required for service installation on all PVC / PVCO mains - Bronze body with stainless steel straps



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	Tapping Sleeve for PVCO Abandon Service		Ford Meter BoxJCMRomacRobar	Ford FS313JCM 422 SeriesSST Series6636AS	NC T 304 SS Const
	Sleeve		Robui	3 0030/13	110 1 30 1 33 001130
	Hydrant		Terminal CityMueller Co.AVK	 C71P – H105 Modern Centurion (A-442) 2780 	Must have 100mm Storz fitting on pumper port Paint colours shall be as follows: Red body White top 2 white side ports black Storz
	Corporation Stop	Full Port Ball Valve	CambridgeFordMuellerAl-MacDonald	 Cambridge 301 Ford FB600 Mueller B25008 Al-MacDonald 4700 	Shall be full-port ball valve to 50 mm only. Use mainline gate valve for sizes >50 mm
	Curb Stop	Full Port Ball Valve	CambridgeFordMuellerAl-MacDonald	 Cambridge 202 Ford B44-343G Mueller B25209 Al-MacDonald 6100 	Shall be full-port ball valve to 50 mm with 90° turn stop. Use mainline gate valve for larger sizes > 50mm
	Meter Setters		Cambridge Brass	 1" 6031 Series 1 ½" - 2" 6020 series 	
	Idler Bar		• Cambridge Brass	 450 Plastic (25mm Service Connection) 450NL Copper (50mm Service Connection) 	
	Meter Pits		Langley Concrete AE Concrete Armtec	 Type#66 with cast iron Lid for 25mm 5686 with steel lid for 50mm 	Full Circumferential models only.
	Meter Chambers		Armtec	• 2121.5	With Aluminum spring assisted double lids.
	Casing Spacers	As shown on contract drawings	 Uniflange Calpico APS	UniflangeCalpicoAPS Casing Spacers	Shall be fabricated cast iron or high density polyethylene insulating spacers designed to center main in the carrier pipe
	Pressure Reducing Valve Stations (PRV)	PRV ValveLimit Switch IndicatorValve Position Indicator	SingerSingerSinger	Singer 106-PRSinger X129Singer X156	Epoxy coated



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
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		 Strainer Domestic flow indicator Pressure Transducer PLC HMI Router 	 Singer Singer Emerson- Rosemount Scadapack Maple Systems, or equivalent SonicWall 	 J1521M Arion Strainer SPI-MV Flow Meter 2088 Scadapack 334 	
33 30 01	Sanitary Sewers				
	Concrete				Not permitted
	PVC Pipe, Mainline Smooth Profile	PVC SDR35	 IPEX Royal Diamond JM Eagle Northern Pipe Products 	IPEX Ring-Tite Royal Seal Diamon Sani- 21	Sizes > than 750 mm to be approved by the City
	Sanitary Service Connection	PVC SDR35 Min 100mm diameter	IPEXRoyalDiamondJM EagleNorthern Pipe Products	IPEX Ring-TiteRoyal SealDiamon Sani- 21	New PVC main: use manufactured wyes. Existing mains: use manufactured wyes, strap saddles or insertable tees.
	Inspection Chamber	Inspection Chamber Inspection Chamber Back- flow check valve	Le-Ron Plastics Inc. Pro-line Galaxy Plastics Le-Ron Plastics Inc. Pro-line		
	Service		Galaxy PlasticsBrooks	• Series 37	Full Circumferential models
	Connection Boxes Repair Couplers		Rollee, Fernco, Shear Band	Rollee, Fernco, Shear Band	only. Couplers shall have appropriate adaptor gaskets to suit OD of pipe material being coupled
33 34 01	Sewage Forcemains	5			
	Pipes, Joints and Fittings	Fused PVC HDPE with fusion welded joints	IpexRoyalSclairpipeDrisco PipeISCO Pipe	SclairpipeDriscoPlexWL Plastics	AWWA C906
	Valves	Air Valves	• ARI		
	Valve Chamber		• Dobney	Dobney C20	
33 40 01	Storm Sewers				



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	Concrete Pipe	Non-reinforced Concrete C14-3 Reinforced Concrete C76-III, IV, and V	Langley Concrete and TilesOcean Pipe		PPP or Q-Cast Certified
	PVC Pipe, Mainline Smooth Wall	PVC SDR35	IPEXRoyalDiamondJM EagleNorthern Pipe	 IPEX Ring-Tite Royal Seal Diamond Sani- 21	Sizes > than 750 mm to be approved by the City Engineer
	PVC Pipe, Mainline Profile		• Ipex • Royal	Ipex UltraRib Royal Korflo	Concentric ribbed pipe only is permitted to 900 mm, No spiral ribbed pipe will be allowed.
	HDPE Pipe, Mainline Open Profile		ArmtecADS	Armtec Boss 2000ADS N-12	
	Service Connection	PVC SDR28 Min 150mm diameter	 IPEX Royal Diamond JM Eagle Northern Pipe 	 IPEX Ring-Tite Royal Seal Diamond Sani- 21 	New PVC main: use manufactured wyes. New HDPE mains: Use injection molded PVC manufactured wyes New concrete main: use PVC stub with bell, pre-cemented with epoxy resin. Existing PVC and HDPE mains: use manufactured wyes, strap saddles or insertable tees. Existing concrete main: use cored tee
	Inspection Chamber	Inspection Chamber	Le-Ron Plastics Inc.Pro-lineGalaxy Plastics		
	Service Connection Boxes		• Brooks	• Series 37	Full Circumferential models only.
33 42 13	Pipe Culverts				
	End Walls	Concrete	Langley Concrete and TilesOcean Pipe		Q-Cast Certified PPP Certified
		Fiberglass Composite	CIF Composites	• Ecolite	
		Mechanically Stabilized Earth (MSE)	Flex MSE	Flex MSE	
33 44 01	Manholes and Cato	hbasins			
	Manhole Frame and Cover	Cast Iron	Dobney Westview Sales Ltd.	Dobney Westview Sales Ltd.	Sanitary Sewer manhole lids shall be marked "SANITARY SEWER"



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Section	Description			model	Storm Sewer manhole lids shall be marked "STORM SEWER"
	Catch Basin and Other Castings	CB Frame	DobneyWestview Sales Ltd.	• B50	
		CB Grate	DobneyWestview Sales Ltd.	• B50	
		Lawn Basin Grate (1050mm Barrel)	DobneyWestview Sales Ltd.		
	Hydro-dynamic grit Separator		LangleyConcrete andTilesContech	StormceptorVorsentryCDS	
33 49 23	Storm Drainage W	ater Retention Systen	ns		
	Polypropylene Arched Chamber		• ADS	Stormtech	
	Polyethylene Arched Chamber		Contech	Chambremaxx	
			Brentwood Industries	Stormtank	
34 41 13	Traffic Signals				
		Siren Activated Emergency Pre- emption	Traffic Systems LLC	• Sonem 2000	
		Audible Signals	 Polara Enterprises 	Navigator APS	
		LED Luminaires	• Philips	Roadfocus	3000 K, RFS, RFM and RFL Series, as applicable
		Traffic Controllers	Econolite	• Cobalt	
	Sanitary Lift Station	n Components			
	Standards for Sanitary Lift Stations	Submersible Pumps	Flygt		Non-Clogging
		Flush Valve	Flygt	Model 4901	Or Approved Equal
		Wet Well	• Xylem		Engineered & Prefabricated
		Portable Lifting Davit	DBI SALA	 8510311 w/ Davit Arm 8517412 including tie off 8516691 	
		нмі	To be confirmed by the City		
		Controller	Xylem	MultiSmart	



MMCD Section	Section Description	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		SCADA	 Flygt / Allied Control Systems 		Must be compatible with City Scada system
		Float Switches	Xylem	tree type (mercury)	Or Approved Equal (must be CSA certified)