

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 listed specified requirements of such specification shall be accepted, specifications shall prevail Brand & Model.

Where specified brand names are specified for a product, any proposal for an alternate product requires the approval of the Cities Approved product committee.

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 Color	• Post at 2.44 c/c & 2 Rail Fence
		Concrete MSE Retaining Wall	Langley PrecastOcean Precast		
26 56 01	Roadway Lighting		222112005		
	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 Pre	servation			
		Snow Fence	Dupont	• L-70	
32 92 19	Hydraulic Seeding				
	Fertilizer		Direct Solutions	• 20-2-16	
32 93 01	Planting of Trees, S	hrubs and Ground-co	overs	,	
		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				
32 34 013		1	1	1	I
	Backflow Prevention Device		Watts	Model 007-QT	CSA, FUS, AWWA C511
	Electronic Control Valves		Rain Bird	EFB CP Series Brass	• < 75mm
				• 300 BPES Series Brass	• ≥ 75mm
	Master Valve		Rain Bird	 EFB CP Series Brass 300 BPES Series Brass 	• < 75mm • ≥ 75mm
				PEB Series Valves	
	Pressure Regulating Modules		Toro Rain 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



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				
	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	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 PipeIsco PipePolytubes	SclairpipeWL Plastics	ASTM F714 AWWA C906
	Water Main Fitting Ductile Iron	Ductile Iron	Terminal City Iron Works Sigma		AWWA C153 AWWA C110
	PVC Injection Molded Fittings	PVC PVCO	IPEXWestlakeProline		AWWA C907 CSA B137.2
	PVC Fabricated Fittings	PVC PVCO	IPEXWestlakeGalaxy PlasticsProline		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	RobarSmith-BlairMuellerFord	 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	RobarSmith-BlairMuellerEBAAClow	 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	UniflangeEBAASmith 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/ProlineMuellerRobarClow	 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 1400EBAA IronClow	 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	 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)		Ipex Westlake	Ipex Terra BruteWestlake Certa-Lok	pressure:
	Restrained Joint Pipe Systems (DI)		US PipeMcWane	 Field-Lok Gasket 	



MMCD Section	Section Description	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
Section	Description			SureStop	Specifications
				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	MuellerClow	Mueller A2360Clow F6103	
	Air Valve		ApcoVal-MaticCrispinARI	APCO 143CVal-Matic 201CCrispin 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	PetrowrapTrenton Tec TapeDensoPCS		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	Canpac 313Mueller DR2ARomac 202BS	Meets applicable AWWA C800 standards Meets requirements for AWWA C213 NSF-61 Certified NSF-372 Certified
	Saddles for PVC / PVCO Main		CanpacRobarCambridgeBrass	Series 812SCZ2616	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 FS313JCM 422 SeriesSST Series	Meets applicable portions of AWWA C223 Meets requirements for AWWA C213 Certified to NSF-61 Certified to NSF-372



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
Section	Description			Model	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 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 AWWA C800,NSF 61, NSF 372, ASTM B584 & B62
	Curb Stop	Full Port Ball Valve	CambridgeFordMuellerAY-MacDonald	 Cambridge 202 Ford B44-343G Mueller B25209 AY-MacDonald 6100 	Shall be full-port ball valve to 50 mm with 90° 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
	Idler 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	 Uniflange Calpico APS	 Uniflange Calpico APS Casing Spacers	No AWWA standard for this part
	Pressure Reducing Valve Stations (PRV)	 PRV Valve Limit Switch Indicator Valve Position Indicator Strainer Domestic flow 	SingerSingerSingerSingerSinger	 Singer 106-PR Singer X129 Singer X156 J1521M Arion Strainer SPI-MV Flow 	Epoxy coated
		indicator	30.	Meter	



MMCD	Section	Product	Manufacturer	Approved	Restrictions/Additional
Section	Description			Model	Specifications
		Pressure TransducerPLCHMIRouter	 Emerson- Rosemount Scada pack Maple Systems, or equivalent SonicWall 	2088Scada pack 334	
33 30 01	Sanitary Sewers	- Nouter	Joinevan		
	Fabricated PVC	l	1	İ	CSA B181, CSA B182.1, CSA
	Fittings				182.2, CSA B182.4
	Fittings		GalaxyPro-lineIpexWestlake		CSA B182.2
	Concrete				Not permitted
	PVC Pipe, Mainline Smooth Profile	PVC SDR35	IPEX Westlake JM Eagle	IPEX Ring-Tite Gasketed Sewer	Sizes > than 750 mm to be approved by City CSA B182,2 ASTM D3034, ASTM D 3212 ASTMF477
	Sanitary Service Pipe	PVC SDR28 Min 100mm diameter	IPEXRoyalJM Eagle	IPEX Ring-TiteGasketedSewer	New PVC main: use manufactured wyes. Existing mains: use manufactured wyes, strap saddles or insertable tees. Protrusion saddles not approved.
	Sanitary Service Connections		Romac Clow	Romac Sewer SaddleClow D-50	CSA B182,2 ASTM D3034, ASTM D 3212 ASTMF477
	Inspection Chamber	Inspection Chamber	WestlakePro-lineGalaxy Plastics		CSA B182,2 ASTM D3034, ASTM D 3212 ASTMF477
		Inspection Chamber Back- flow check valve	WestlakePro-lineGalaxy Plastics		B181 & CSA 182.1
	Service		AE Concrete	Series B937	
	Connection Boxes Repair Couplers		• Rollee, • Fernco,		Couplers shall have appropriate adaptor gaskets to suit OD of pipe material being coupled – full stainless steel wrap
33 34 01	Sewage Forcemains				
	Pipes, Joints and Fit	ttings	1	1	1
		HDPE with fusion welded joints	SclairpipeDrisco PipeISCO Pipe	SclairpipeDriscoPlexWL Plastics	AWWA C906
	Valves	Air Valves	• ARI		Composite



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		GalaxyProlineIpexWestlake		B182.2
	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	 IPEX Westlake JM Eagle	IPEX Ring-TiteGasketedSewer	Sizes > than 750 mm to be approved by the City Engineer
	PVC Pipe, Mainline Profile		lpexWestlake	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 2000ADS N-12	CSA B182.8 with Type 1 Water tight joint
	Service Connection pipe	PVC SDR28 Min 150mm diameter	 IPEX Westlake JM Eagle	IPEX Ring-TiteGasketedSewer	CSA B182.2 ASTM D3034
	Storm Service Connections		• ADS • Galaxy	 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	Specifications
	Manhole Frame and Cover		DobneyWestview Sales Ltd.TC	C-18C-18ADJC-18LP	Sanitary Sewer manhole lids shall be marked "SANITARY SEWER" Storm Sewer manhole lids shall be marked "STORM SEWER"
	Catch Basin and Other Castings	CB Frame	DobneyWestview Sales Ltd.Terminal City	• B50 B24 ADJ B24D	MMCD MMCD
		CB Grate	DobneyWestview Sales Ltd.Terminal City	B50B23 left or rightB24 Hood Only	MMCD
		Lawn Basin Grate (1050mm Barrel)	DobneyWestview Sales Ltd.TC	•	MMCD
	Hydro-dynamic grit Separator		Langley Concrete and TilesContech	StormceptorVorsentryCDS	
33 49 23	Storm Drainage Water Retention Systems				
	Polypropylene Arc	hed Chamber			
	Polyethylene Arched Chamber		Contech	Chambremaxx	
			Brentwood Industries	Stormtank	
34 41 13	Traffic Signals		•	•	
	Siren Activated Em Pre-emption	ergency 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 Components		•	•	
	Standards for Sanit	ary Lift Stations			
	Submersible Pumps	Flygt	•	Specific model to be approved by Utilities Manager	Non-Clogging
		Flush Valve	• Flygt	Model 4901	Or Approved Equal

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 	
		HMI			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