

**CITY OF ABBOTSFORD
APPROVED MATERIALS AND PRODUCTS**

**Updated:
February 7,
2023**

Site work except landscaping

MMCD Section	Section Description	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
31.11.45	Shrub & Tree Preservation	Snow Fence			
26 56 01S	Roadway Lighting				
2.7.10S		Anti-Theft Hand hole cover plate	Nova Pole		
2.7.11S	Poles and Anchor Bolts	Anti-theft plate	TCT Wiresentry	Tron HEB_A A or Gould Shawmut GEB-11- 11 30 A-600V	
2.11.2S	Fuses & fuse Holders	Fuse Holders	Crouse Hinds WLRD-1		
2.13.3S	Receptacles	Cover			
2.14.7	Luminaires	LED Luminaires	GE	ERL1-ERLH-ELR2	
33 11 15S	Water Works				
2.2.1	Mainline Ductile Iron	D.I. Pipe	Canada Pipe, US Pipe	C-350	To be approved by the Engineer
2.2.2	Water Main PVC	PVC Pipe	IPEX,, Westlake Pipe And Fittings, Royal Pipe & Fittings	C-900 C-905	To be approved by the Engineer
2.2.3	Water Main HDPE	HDPE	KWH Pipe, High Performance Pipe WL Plastics		To be approved by the Engineer

2.2.4.2/3	Water Main Fittings Ductile Iron	Ductile Iron			To be approved by the Engineer. AWWA C153 and AWWA C110
-----------	--	--------------	--	--	---

2.2.4.4	PVC Injection Molded Fittings	PVC and PVCO	IPEX, Westlake Pipe and Fittings/Royal Pipe and Fittings		
2.2.4.5	PVC Fabricated Fittings	PVC and PVCO	IPEX, Pro-Line and Galaxy Plastics		
2.2.9	Nuts and Bolts				Corten Steel
2.2.10	Tie Rod				Corten Steel
2.2.12	Couplings and Flange Coupling Adapters	Plain End	Robar, Smith Blair, Romac		
2.2.4.12.2 S		Plain End or Transition couplings	Robar, Canpac or Smith Blair		
2.2.4.12.2 S		Flanged couplings adaptors	EBBA	2100 Mega flange	
2.2.4.12.4 S		PVC coupling Adaptors	Certain – Teed		Complete with mechanical joint restraints
2.2.4.13.9 S		Joint Restraint		Thrust Lock	To be approved by the Engineer
2.2.4.13.1 2S		External Joint Restraints	EBBA Iron or Uni-flange		
2.2.4.14.2 .2		Tapping Sleeves	Robar, Romac, Canpac, Ford and Smith Blair		
2.2.4.14.3 .2		Tapping Sleeves	Romac, J.C.M and Smith Blair		
2.3.2.7S	Valves and Valve Boxes	Valves and Valve Boxes	Terminal City or Mueller		
2.3.3S		Butterfly Valves	Pratt or Mueller		
2.3.5.5		Air Release, Air/			

		Vacuum and Combination Air Valves	Crispin UL Series		
2.3.6.3S		Valve Box	Terminal City	MR 6	
2.3.7.1S		Concrete Meter Box	A.E. Concrete or Brooks	A.E. Concrete Model 8937 or Brooks 37	c/w cast iron traffic cover
2.3.7.2S		Meter Chambers	A.E. Concrete	Model 5686	c/w cast iron traffic cover
2.4.1S		Meter Chamber Lid	U.S.F. Fabricators		Steel lids must have hydraulic lift assists.
2.5.3.2.4S	Service Connections, Pipe, Joints and Fittings	Saddles for D.I. Pipe	Robar, Romac, Smith Blair, Canpac, and Ford	Robar, Romac, Smith Blair and Ford	
2.5.3.3		Saddles for PVC/PVC O Pipe	Robar, Romac, Smith Blair, Canpac, and Ford		Saddles required for service installations on all PVC/PVCO mains and shall be approved by the pipe manufacturer.
2.5.6S		Meter Setters	Ford, Mueller		
2.6.1.6.2	Pump Nozzle Outlet		Storz		
2.6.3	Hydrants		Terminal City or Canada Valve Century		
2.7.2	Corporation Stop	Full port Ball Valve	Ford, Mueller		
2.7.3	Curb Stop	Full Port Ball Valve	Ford or Mueller		
33 30 01	Sanitary Sewers				
2.2	PVC Pipe, Mainline Smooth Profile	PVC SDR 35	Ipex, Westlake Pipe and Fittings Royal Pipe and fittings	IPEX Ring-Tite, Royal/NA PCO PCO Seal	

2.3	Sanitary Service Connection	PVC SDR 35 Min 100 mm diameter	IPEX, Westlake Pipe and Fittings Royal Pipe and Fittings	IPEX Ring-Tite, Royal/NA PCO PCO Seal	
	Inspection Chamber	Inspection Chamber	Westlake Pipe and Fittings, Royal Pipe, Galaxy Plastics		
	Series 37 Concrete Box	Langley Concrete	LCT #37 with cast iron lid.		
	Service Connection Cast Iron Boxes	Cast Iron MR Style	TR 6		
	Repair Couplers	Shear Band			Couplers shall have appropriate adaptor gaskets to suit OD of pipe material being coupled
33 34 01	Sewage Forcemains				
	Pipes	HDPE with fusion welded joints	KWH Pipe,		AWWA C906 To be approved by the Engineer
2.1.1		Ductile Iron	Canada Pipe 350		AWWA C151 and AWWA C104/A21.4
2.2.1		PVC	IPEX, Royal Pipe and Fittings/Westlake Pipe and Fittings		AWWA C900, AWWA C905,
2.2.12.2S	Fittings	Plain end or Transition Couplings	Robar, Canpac or Dresser Style		
2.2.13.5S	Restrainers	For D.I. Pipe with M.J. fittings	EBAA iron Megalug or Uni-Flange		
2.2.13.6S		For PVC Pipe with M.J. fittings	EBAA iron Megalug or Uni-Flange		
2.2.13.7S	Restrainers	For D.I. pipe with push on joints with tie rods	Uni-Flange		

2.2.13.8S	Restrainers	For PVC Pipe with push on joint fittings with tie rod lugs	Uni-flange or Robar		
2.2.13.10S	Restrainers	For bell joints in PVC pipe	Uni-flange or Robar		
2.2.5	Fittings	Ductile Iron			AWWA C110 and AWWA C104/A2.4
		PVC Fabricated Fittings			AWWA C907
		Single Rubber gasket for push on and spigot joint			AWWA C111
2.3	Valve Boxes				
2.3.5.1.2S		Valve Boxes	Terminal City		If used in a Roadway
3.6.6S	Pipe Installation	PVC Pipeline Joint Deflections	Restrained Certain Teed PVC high deflection coupling.		
33 04 01S	Storm Sewers				
2.1	Concrete Pipe	Reinforced	Langley Concrete or Ocean Pipe		Shall be Q-Cast or PPP Certified
2.2	PVC Pipe, Mainline Smooth Wall Profile	PVC SDR 35	IPEX ring – tite, Royal/Westlake Pipe and Fittings O Seal		Sizes. 750 mm to be approved by the Engineer.
2.3	PVC Pipe, Mainline Profile		IPEX, Westlake Pipe and Fittings, Royal Pipe and Fittings		
2.4	HDPE Pipe, Mainline Open Profile	Polypropylene	Armtec Boss 2000		Maximum diameter 900mm, Min, pipe stiffness 320 kpa.
2.6	Service Connections	PVC SDR 35 Min.			New PVC main; use manufactured syes. New Concrete main; use PVC stub with b e

		diameter 150 mm	IPEX, Royal/Westl ake Pipe and Fittings O Seal		ll , pre-cemented ep oxy resin. New or existing ribbed PVC mains: use Inserta- Tee New Profile HDPE mains; use injection molded PVC manufactured wyes for mains , 300mm
	Inspection Chamber	Inspection Chamber	Le-Ron Plastics or Galaxy Plastics		Series 37 concrete pull box shall be used over driving surface as per MMCD S9
		Series 37 Concrete Pull Box	Langley Concrete		
	Service connection Box	Cast Iron MR Style	Terminal City		
33 42 13	Pipe Culverts				
2.0	Ends Walls		Langley Concrete, Ocean Pipe		Q Cast or PPP Certified
	Storm Culvert	Reinforced Concrete	Langley Concrete, Ocean Pipe		Q Cast or PPP Certified
33 44 01	Manholes and Catch Basins		Langley Concrete, Ocean Pipe		Q Cast or PPP Certified
2.1.7.3S	Manhole Frames	C-20 frame TR 18 (7 inch tall)	Westview Sales		For low volume/ no truck traffic. Shall be "tall" frame and castings if installed on arterial or collector roads or where heavy truck traffic is anticipated.
2.1.13.3S	Trapping Hood	Dobney A- 10.			
2.1.13	Catch Basins and other Castings	CB Frame	Dobney Westview Sales		Refer to Supplementary Drawings
		CB Grate	Dobney		Refer to Supplementary Drawings

		CB Frame-Side Inlet Assembly	Dobney		Refer to Supplementary Drawings
		Curb Inlet	Dobney		Refer to Supplementary Drawings
		Lawn Basin (600 mm barrel)	Dobney		Refer to Supplementary Drawings
		Bicycle Friendly CB Grate	Dobney		Must be approved by the Engineer
2.1.16.3S	Riser Rings	Turner Riser Rings			For Residential Streets
34 41 13	Traffic Signals				All Materials specified to meet BC MOTI standards.

SEWAGE PUMP STATIONS

MMCD Section	Section Description	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
	Pumping System	Pumps	Xylem Inc.		Approval of Engineer Required
		Concrete Wet Well Liner		PVC "T-LOCK"	
	Piping & Accessories	Check Valves	Clow, Matco and Flow Matic		Approval of Engineer Required
		Quick connection for standby pumping connection with an 100 mm female adapter flange	Kamlock		

		Double check valve backflow preventer	Clayton	D2	
		Ultrasonic Level Sensors	Siemens or Multiranger		
		Ball float	Xylem		
	Standby Generators	Standby Generators	Simpson Maxwell, Cummins, Kolher, Onan, Caterpillar.	As required by design load	Approval of Engineer Required
	Current Transformer	Current Transformer	Crompton "Model 2" series, Cat #2DRL-xxx or approved equal		
	Signal Converter	Signal Converter	(0-5A AC to 4-20mA DC) Moore Industries "ECT Output-Loop Powered" series, cat. #ECT/0-5 AAC/4-20 MA/12-42 DC or approved equal.		
	Combination Current Transformer & Signal Converter	Combination Current Transformer & Signal Converter	Phoenix Contact "MCR-SL-CUC" series or approved equal.		
	4-20 mA Signal Isolator	4-20 mA Signal Isolator	Weidmuller "ACT20M" series or approved equal.		