

List of Approved Materials and Products

Alternates to the items in this list require the approval of the Mgr. Capital Projects & Inspections

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
26 56 01	Roadway Lighting				
		Cobra Head Style Luminaires	<ul style="list-style-type: none"> LED Roadway Lighting (LRL) 	NXT Series	<ul style="list-style-type: none"> LED 3000K - Local Roads (bus routes are 4000k) 4000k - Collector and Arterial Roads 7 pin PEC connector Shorting cap Field Adjustable Driver required for Cobra Head style fixtures (Or decorative fixtures where adjustable drivers come as an option) Wattages per design 2 Tenon adaptors required for post top poles using Cobra Head Luminaires – <ul style="list-style-type: none"> a) LRL Part# (FP-FTP-NXT-GY-06-LF) b) Valmont WCE Part# (WCE TEN-3.5-FIT-PC) RAL7035
			<ul style="list-style-type: none"> American Electrical Lighting (AEL) 	Autobahn Series <ul style="list-style-type: none"> ATB2 ATBO 	
		Decorative Roadway Luminaires	<ul style="list-style-type: none"> Phillips Lumec 	<ul style="list-style-type: none"> TR20 Capella Domus CAND 1 / CAND 2 	
			<ul style="list-style-type: none"> Lumenpulse 	<ul style="list-style-type: none"> Pure 100 	
		Pathway / MUP Lighting	<ul style="list-style-type: none"> Lumenpulse Cree LED Roadway Lighting (LRL) Phillips Lumec 	<ul style="list-style-type: none"> Pure 100 ARE-EDG NXT-S series TR20 Capella Domus CAND 1 / CAND 2 	<ul style="list-style-type: none"> LED 4000K Confirm with City 7 pin PEC connector Shorting cap Wattages per design plans
		Photocell / Shorting Caps	<ul style="list-style-type: none"> DTL (Dark to Light) Intermatic 	<ul style="list-style-type: none"> DE 120 for 102V DE 124 for 120/240V DE 347 for 347V DE 480 for 480V P/N LED45652 	
		Poly/Conc Junction Boxes	<ul style="list-style-type: none"> CIF Composites Inc Duralite 	Sizes: <ul style="list-style-type: none"> 11 x 18 17 x 30 	<ul style="list-style-type: none"> 2 Sections max Plastic Junction Boxes

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				<ul style="list-style-type: none"> • 24 x 36 	Will Not Be Accepted <ul style="list-style-type: none"> • Round Junction Boxes will not be Accepted
		Concrete Junction Boxes	<ul style="list-style-type: none"> • AE Concrete 	<ul style="list-style-type: none"> • TYPE 66 = T266 • TYPE 37 = B937 • TYPE C = 5686 	
		Poles / Arms	<ul style="list-style-type: none"> • Valmont West Coast Engineering • Nova Pole • Lumec 		<ul style="list-style-type: none"> • Galvanized and Powder Coated. • As per Design Drawings or Local Neighborhood Design Guidelines
		Concrete Bases	<ul style="list-style-type: none"> • AE Concrete • Langley Concrete 		<ul style="list-style-type: none"> • Per MMCD / Refer to Supplementary Drawing SS-E7.3
		Service Bases	<ul style="list-style-type: none"> • Valmont West Coast Engineering • Nova Pole 		<ul style="list-style-type: none"> • PER MMCD / Refer to Supplementary Drawing SS-E7.3 • Galvanized and Powder Coated • Robust Tab For Padlock
		Service / Electrical Panels	<ul style="list-style-type: none"> • West Coast Electric • Valid 	<ul style="list-style-type: none"> • Aluminum or Stainless Steel 	<ul style="list-style-type: none"> • Refer to Supplementary Drawing SS-E7.3 and SS-E7.4 • Surge Protection Device required for primary service. I_{max} 50, 20kA, 120/240V, 50/60Hz. Must be installed within panel.
		Conductor Tags	<ul style="list-style-type: none"> • Panduit 	<ul style="list-style-type: none"> • MP250-C TAGS 	<ul style="list-style-type: none"> • On All Cables and individual conductors (Black Indelible Marker Pen)
		Individual Conductor	<ul style="list-style-type: none"> • Texcan 	<ul style="list-style-type: none"> • RW90 Stranded Copper 	Size and Color as per Plans
		Conduit	<ul style="list-style-type: none"> • Various 	<ul style="list-style-type: none"> • CSA C22.2 No. 211.2 	<ul style="list-style-type: none"> • RPVC • DBII will not be accepted
		Hydro Dip Service (RPVC Straps / Lag Bolts / Conduit Guard)	<ul style="list-style-type: none"> • Various 	<ul style="list-style-type: none"> • MMCD 	
		Fuse Holders (<u>Pole Hand Holes</u>)	<ul style="list-style-type: none"> • Tron 	<ul style="list-style-type: none"> • Tron HEB-AA c/w 2 L-Type Insulating Boots 	
		Fuse Holders (<u>Junction Boxes</u>)	<ul style="list-style-type: none"> • Ideal • Buchanan 	<ul style="list-style-type: none"> • 65 KIT Water Proof 	
		Fuses	<ul style="list-style-type: none"> • Bussman • Mersen 	<ul style="list-style-type: none"> • 10-A KTK • 10-A ATM 	

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
		Receptacles	• Leviton	• Leviton Smartlock Pro Slim (WR) GFCI	• Or City Approved Corrosion Resistant Alternate
		Cable Lubricant	• Ideal	• Poly Water Dyna-Blue • Poly Water Aqua-Gel II	
		Paint Color RAL Codes			• Coquitlam Green-RAL 6028 • Coquitlam Black-RAL 9005 • Mallardville Grey-RAL 7024
Irrigation System					
2.1	Irrigation Pipe – PVC			• CSA Series 160 >50mm • CSA Series 200 <50mm	Comply with CSA B137.3
	Irrigation Pipe - HDPE			• SDR 17 >50mm • SDR 11 <50mm	Comply with ASTM D-1248 as a Type III, Class C, Category 5, Grade P34 material and with ASTM D-3350 as a 345434C cell material.
2.2	Backflow Prevention Device		• Watts	• Model 007-QT	
2.3	Water Meter		• Sensus • Neptune	• Touch Read • Pro Read	See City Website for Water Meter Specifications
2.4	Water Meter Box		• Carson Series • AE Concrete	• 1419 • Model 5686	See City Website for Water Meter Specifications
2.5	Electronic Control Valves		• Toro		24 VAC Solenoid Actuated Globe Pattern
2.6	Master Valve		• Toro	• 220 Series	
2.7	Pressure Regulating Modules		• Rain Bird	• PRS-Dial	
2.8	Automatic Controllers		• Toro	• Sentinel Satellite Controller	
2.9	Control Wire	Wire	• Paige Wire	• P7079D	Common Wire to be 12-gauge Master Valve Wire to be 14-gauge
		Flow / pulse transmitter wiring	• Belden	• PE39	8mm Aluminum Polyester Shield Black HDPE Jacket

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
		Wire splice	• 3M	• DBY connector	
32 91 215	• Topsoil and Finish Grading				
2.5	<i>Growing Medium</i>		<ul style="list-style-type: none"> • Fraser Richmond Bio-Cycle • BC Eco Soil Recycling Corp • YardWorks • Denbow 		
2.7	<i>Bark Mulch</i>		Answer Garden Products	• Nutri-Mulch	
2.9	<i>Misc. Products</i>	Root Barrier	Deep Root	• LB12-2	
		Adhesive	OSI Sealants	PL 200	
		Drain Mat	Nilex Geotextile	Nudrain WD/15	
		Filter Fabric	Nilex Geotextile	Nilex 4545	
2.9	<i>Structural Soil</i>	Soil	Answer Garden Products	Humus Builder	
		Structural Geotextile	Nilex Geotextile	Nilex 4553	
32 92 195	<i>Hydraulic Seeding</i>				
2.2	<i>Seed Mix</i>	Perennial Rye		<ul style="list-style-type: none"> • Elka II • Gator 3 • Top Hat • Charismatic • All Star • Derby Supreme 	
		Fescues		<ul style="list-style-type: none"> • Cindy • Longfellow II • Cindy Lou • Quatro • Shademaster II 	
		Kentucky Bluegrass		<ul style="list-style-type: none"> • Shamrock • Boardway • Midnight • Julius • Allure 	
3.5.3	<i>Fertilizer</i>			• Evergrow 28-3-8	
32 92 20	<i>Seeding</i>				
2.1.2	<i>Seed Mix</i>	Perennial Rye		<ul style="list-style-type: none"> • Elka II • Gator 3 • Top Hat • Charismatic • All Star • Derby Supreme 	
		Fescues		• Cindy	

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		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
				<ul style="list-style-type: none"> Longfellow II Cindy Lou Quatro Shademaster II 	
		Kentucky Bluegrass		<ul style="list-style-type: none"> Shamrock Boardway Midnight Julius Allure 	
32 93 01S	<i>Planting of Trees, Shrubs and Ground Covers</i>				
2.3		Fertilizer	<ul style="list-style-type: none"> Agrico 	<ul style="list-style-type: none"> Evergro Tabs 	
2.4		Mulch	<ul style="list-style-type: none"> Yard Works Eco-Soil Fraser Richmond Bio-cycle 		Composted
2.8		Guying Wire	<ul style="list-style-type: none"> Tree Guy Systems 	<ul style="list-style-type: none"> Arrow Anchor 	
2.11		Anti-desiccant	<ul style="list-style-type: none"> GSI Horticultural 	<ul style="list-style-type: none"> Moisturin 	
2.12		Flagging Tape		<ul style="list-style-type: none"> Indenti-Tape 	
2.13		Tree Trunk Protection	<ul style="list-style-type: none"> Deep Roots Products 	<ul style="list-style-type: none"> Arborgard 	
2.16		Tree Ties	<ul style="list-style-type: none"> Deep Roots Products 	<ul style="list-style-type: none"> Arbor Tie 	
33 11 01	<i>Waterworks</i>				
2.2.1	<i>Water Main Ductile Iron</i>	Ductile Iron	<ul style="list-style-type: none"> McWane Group US Pipe Canada Pipe 		CL 50 for all mains less than 400mm dia. and Pressure Class 350 for all mains 400mm dia or larger
2.2.2	<i>Water Main PVC</i>	PVC (C900) PVCO (C909)	<ul style="list-style-type: none"> Ipex Royal Pipe Systems Ipex 	<ul style="list-style-type: none"> Blue Brute Bionax 	To AWWA C900 / C 905/ C 909 – 100 mm to 300 mm diameter DR18 min. Compliance with MMCD updated Section 33 11 01 2.2.2.2S for thickened bell and spigot pipe All PVC/PVCO mains shall be pigmented blue. Nitro gasket shall be used when hydro carbon is encountered in surrounding soil. PVC/PVCO to be used only where shown on approved construction drawings.

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
2.2.3	Water Main HDPE	HDPE	<ul style="list-style-type: none"> • KWH Pipe • Performance Pipe 	<ul style="list-style-type: none"> • Sclairpipe • DriscoPlex 	HDPE to be used only where shown on approved construction drawings.
2.2.4.2/3	Water Main Fitting Ductile Iron	Ductile Iron Compact Ductile Iron	<ul style="list-style-type: none"> • Terminal City Iron Works • Norwood Foundry • Sigma Products • Star Pipe Products 		AWWA C 153 & C110, cement mortar lined. Cast iron fittings are not acceptable
2.2.10	Tie Rod, Bolts/Nuts				Type 304 Grade A stainless steel for all hardware
2.2.12	Couplings and Flange Coupling Adapters	Plain End Coupler	<ul style="list-style-type: none"> • Robar • Smith-Blair • Romac • Mueller • Ford • EBBA Iron 	<ul style="list-style-type: none"> • Robar 1508 • Smith-Blair441 • Romac 501 • Mueller MRC • Ford FC1 • EBBA 3800 	Type 304 Grade A stainless steel for all hardware All couplings and flange adapters are to have a fusion epoxy coating.
		Flanged Adapter	<ul style="list-style-type: none"> • Robar • Smith-Blair • Romac • Mueller • EBAA • Clow • Star Pipe Products • Sigma 	<ul style="list-style-type: none"> • Robar 7504/7506 • Smith-Blair912 • Romac FCG • Mueller • EBAA Iron 1000 • Clow Series 40, DI • Clow Series 90, PVC • Star Series 400 • Sigmaflange 	Type 304 Grade A stainless steel required for all hardware. All couplings and flange adapters are to have a fusion epoxy coating.
		Restrained Flange Adaptors	<ul style="list-style-type: none"> • Romac • Uniflange • EBAA • Star Pipe Products 	<ul style="list-style-type: none"> • Romac RFCA • Uniflange RFAP • EBAA 2100 • Super Flange Series 7200 	Type 304 Grade A stainless steel required for all hardware. All restrained flange adapters are to have a fusion epoxy coating.
		Repair Clamps	<ul style="list-style-type: none"> • Canpac • Mueller • Robar • Clow • Romac 	<ul style="list-style-type: none"> • Canpac CR-2 • Mueller 510 • Robar 5626 • Clow 200 • Romac SS2 	Repair clamps shall be stainless steel. Type 304 Grade A stainless steel required for

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
			<ul style="list-style-type: none"> Cambridge Brass 	<ul style="list-style-type: none"> Teck Series 425, 825, 1625 	all hardware.
2.2.13	Joint Restraint Ductile Iron Mains		<ul style="list-style-type: none"> UniFlange Series 1400 EBAA Iron Clow Star Pipe Products 	<ul style="list-style-type: none"> UniFlange Series 1400 EBAA Iron 1100 Clow Tufgrip TDG Split Stargrip Series 3100 	All joint restraints shall have a pressure rating equal to the mainline pipe. All joint restraints are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
	Joint Restraint PVC / PVCO Mains		<ul style="list-style-type: none"> UniFlange EBAA Iron Star Pipe Products 	<ul style="list-style-type: none"> UniFlange Series 1300 UniFlange Series 1500 EBAA 1500 EBAA 1900 PVC Stargrip Series 4100 	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. All joint restraints are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
	Restrained Joint Pipe Systems (PVC)		<ul style="list-style-type: none"> Ipex Royal 	<ul style="list-style-type: none"> Ipex Terrabrute Royal Bulldog Royal Cobra Lock 	Restrained pipe joint systems to be approved prior to use.
	Restrained Joint Pipe Systems (DI)		<ul style="list-style-type: none"> US Pipe McWane 	<ul style="list-style-type: none"> Field Lok Gasket SureStop Gasket 	Restrained pipe joint systems to be approved prior to use.
2.3	Valves and Valve Boxes	50mm – 300mm Resilient-seated Mainline Gate Valve	<ul style="list-style-type: none"> Mueller Clow Canada AVK American Flow Control Terminal City 	<ul style="list-style-type: none"> Mueller A2362 Clow 2639 AVK AFC Series 2500 IBBM 	All valves shall have epoxy coated ductile iron body to AWWA C 509.
		375mm or greater Mainline Butterfly Valve	<ul style="list-style-type: none"> Pratt Mueller 	<ul style="list-style-type: none"> Pratt Groundhog Mueller Lionseal 	AWWA C 504 Class 150B
2.3.5	Air Valve		<ul style="list-style-type: none"> Apco Val-Matic 	<ul style="list-style-type: none"> APCO 140C Val-Matic 	

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			<ul style="list-style-type: none"> • Pratt • Crispin 	201C <ul style="list-style-type: none"> • Pratt UL • Crispin UL 	
2.3.6	Water Valve Box	Nelson Box, 450mm length 150mm riser pipe with circular box	<ul style="list-style-type: none"> • Terminal City • Dobney • Westview • Trojan 		Cover shall be marked with "Water".
2.3.7	Curb Stop Box		<ul style="list-style-type: none"> • Terminal City • Dobney • Westview • Trojan 		Per Supplementary Specification Dwg. COQ-W2b
2.5	Water Service Connection	Type K Copper – 19mm to 75mm			ASTM B88M
2.5.3.2	Saddles for Ductile Iron Mains		<ul style="list-style-type: none"> • Robar • Smith Blair • Mueller • Romac • Cambridge Brass 	<ul style="list-style-type: none"> • Robar 2506 • Smith Blair 317 • Mueller DR2S • Romac 202NS • Teck Series 840X 	Saddles required for service installation on all ductile iron mains. All saddles are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
2.5.3.3	Saddles for PVC / PVCO Mains		<ul style="list-style-type: none"> • Canpac • Robar • Cambridge Brass • Mueller 	<ul style="list-style-type: none"> • Canpac SC2 • Robar 2506 • Teck Series 840X • Mueller DR2S 	Saddles required for service installation on all PVC / PVCO mains. All saddles are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
2.6	Hydrant		<ul style="list-style-type: none"> • Terminal City • Canada Valve • Clow Canada • Mueller 	<ul style="list-style-type: none"> • TC C71P, TC-1, TC-20P • "Century" • M93 Brigadier • Centurion 	Must have Storz fitting on pumper port Refer to Supplementary Specifications for paint colors
2.7	Corporation Stop		<ul style="list-style-type: none"> • Cambridge • Ford • Mueller • AY-MacDonald 	<ul style="list-style-type: none"> • Cambridge 311 • Ford B1000 • Mueller B2500800N • MacDonald 	Shall be full-port ball valve to 38 mm only. Shall be 300psi working pressure. Shall have large tee head. Use mainline gate valve for sizes >38 mm

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				74700	
2.7	<i>Curb Stop</i>		<ul style="list-style-type: none"> • Cambridge • Ford • Mueller • AY-MacDonald 	<ul style="list-style-type: none"> • Cambridge 202 • Ford B44-343G • Mueller B25209 • MacDonald 76100 	Shall be full-port ball valve to 50 mm with 90° turn stop. Use mainline gate valve for larger sizes > 50mm
33 30 01	<i>Sanitary Sewers</i>				
2.1	<i>Concrete</i>				Not allowed
2.2	<i>PVC Pipe, Mainline Smooth Profile</i>	PVC SDR35	<ul style="list-style-type: none"> • IPEX • Royal • JM Eagle 		Sizes > than 600 mm to be approved by the Engineer
2.3	<i>Sanitary Service Connection</i>	PVC SDR28	<ul style="list-style-type: none"> • IPEX • Royal • JM Eagle 		Minimum size shall be 100mm
	<i>Inspection Chamber</i>	Inspection Chamber	<ul style="list-style-type: none"> • Le-Ron • Pro-Line Fittings • Galaxy Plastics 		IC's shall have locking lid with gasket
	<i>Tees and Wyes</i>	PVC SDR35	<ul style="list-style-type: none"> • IPEX • Royal • Galaxy Plastics • GPK Products 		Manufactured wye fitting shall be used for all connections on new mains.
	<i>Sewer Couplers PVC – Other Other – Other</i>		<ul style="list-style-type: none"> • Rollee • Fernco 	<ul style="list-style-type: none"> • Rollee • Fernco 	Couplers (Shear band type) shall have appropriate adaptor gaskets to suit OD of pipe material being coupled
	<i>Sewer Couplers PVC – PVC</i>		<ul style="list-style-type: none"> • Royal/Le-Ron • Pro-Line Fittings • Galaxy Plastics 		To be gasketed push on type
33 34 01	<i>Sewage Force mains</i>				
2.2.4	<i>Low-pressure Sewage Force mains</i>	HDPE with fusion welded joints	<ul style="list-style-type: none"> • KWH • Performance Pipe 	<ul style="list-style-type: none"> • Sclairpipe • DriscoPlex 	AWWA C906
	<i>Service Connections</i>	Wyes and Tees			Manufactured fitting shall be used for all connections on new mains.
33 40 01	<i>Storm Sewers</i>				

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
2.1	Concrete Pipe	Non-reinforced and Reinforced Concrete	<ul style="list-style-type: none"> Langley Concrete Ocean Pipe 		
2.2	PVC Pipe, Mainline Smooth Wall	PVC SDR35	<ul style="list-style-type: none"> IPEX Royal JM Eagle 		Sizes > than 600 mm to be approved by the Engineer.
2.4	HDPE Pipe, Mainline Open Profile		<ul style="list-style-type: none"> Armtec Hancor 	<ul style="list-style-type: none"> Armtec Boss 2000 Hancor Blue Seal 	Allowed on a case by case basis as approved by the Engineer.
2.6	Service Connections	PVC SDR28	<ul style="list-style-type: none"> IPEX Royal JM Eagle 		Minimum size shall be 150mm.
	Tees and Wyes	PVC SDR35	<ul style="list-style-type: none"> IPEX Royal Galaxy Plastics GPK Products 		Manufactured wye fitting shall be used for all connections on new mains.
		Insertable Tee	<ul style="list-style-type: none"> Inserta Tee 		Insertable tee only permitted for connections to existing PVC and Concrete mains which are 375mm mains or larger.
	Inspection Chamber	Inspection Chamber	<ul style="list-style-type: none"> Le-Ron Pro-Line Fittings Galaxy Plastics 		IC's shall have locking lid with gasket
33 44 01	Manholes and Catchbasins				
2.1	Precast Manhole Sections	Manhole base and riser section	<ul style="list-style-type: none"> Langley Concrete Ocean Pipe Diamond Concrete 		
2.1.7	Manhole Frames and Covers	Ductile Iron for Arterial Roads	<ul style="list-style-type: none"> Westview Sales Dobney 	<ul style="list-style-type: none"> TR 724 C Series 	Manhole frame shall be secured to the concrete manhole lid with 3 12 mm diameter redi-rods and appropriate Hilti anchors and nuts No cast or ductile iron adjusting grade rings permitted
2.1.7	Manhole Frame and Cover	Cast Iron per MMCD for Non-arterial Roads	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> C Series TR18 	Refer to Supplementary Standard Drawing COQ-S16 for required lettering on Manhole Covers for sanitary and storm sewers, including in fish habitat areas.

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					Shall be compatible and interchangeable with existing City of Coquitlam castings.
2.1.7	Low-profile Frame and Covers				Use of 100mm low profile frames and cover to be approved by the Engineer
	2.1.13 Catch Basin and Other Castings	CB Frame	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B24 TR24 	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Grate	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B23 TR23R&L 	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Frame – Side Inlet Assembly	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B39A TR39A 	Refer to Supplementary Standard Drawings COQ-S11A – Side Inlet Catch Basin Assembly
		CB Grate – Side Inlet Assembly	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B39 TR39 	Refer to Supplementary Standard Drawings COQ-S11A – Side Inlet Catch Basin Assembly
		Curb Inlet	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B24FTH TR24C 	
		Lawn Basin Grate (600mm Barrel)	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> B22A TR22 	Lawn Drains – MMCD Standard Drawing S12
		Lawn Basin Grate (300mm Barrel)	<ul style="list-style-type: none"> Dobney Foundry Westview Sales Ltd. 	<ul style="list-style-type: none"> D2A TR12 	Lawn Drains – MMCD Standard Drawing S12
03 30 20	Concrete Walks, Curbs and Gutter				
		Cast-in-Place Tactile panel	<ul style="list-style-type: none"> Access Tile Amor-Tile 	<ul style="list-style-type: none"> ACC-R-2x4 ADA-C-2448 	See Supplementary Drawing COQ-C9E
34 41 13	Traffic Signal				
		Polymer Concrete Junction Boxes	<ul style="list-style-type: none"> CIF Composites Inc Duralite 	Sizes: <ul style="list-style-type: none"> 11 x 18 17 x 30 24 x 36 	2 Sections max Plastic Junction Boxes Will Not Be Accepted Round Junction Boxes Will Not Be Accepted
		Concrete Junction Boxes/Vaults	<ul style="list-style-type: none"> AE Concrete 	<ul style="list-style-type: none"> SP635-1.3.3 (4040 Service Box) Type 66=T266 Type 37=B937 	Refer to Supplementary Drawing SS-E2.5

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				• Type C =5686	
		Poles / Arms	<ul style="list-style-type: none"> • Valmont West Coast Engineering • Nova Pole 		Galvanized and Powder Coated (See Roadway Lighting Section for Paint Codes)
		Concrete Bases	<ul style="list-style-type: none"> • AE Concrete • Langley Concrete 		For Concrete service bases refer to Supplemental Drawing SS-E7.3
		Service Bases	<ul style="list-style-type: none"> • Valmont West Coast Engineering • Nova Pole 		Refer to Supplemental Drawings SS-E7.3 and SS-E7.4 Robust Tab for Padlock
		Service / Electrical Panels	<ul style="list-style-type: none"> • West Coast Electric • Valid 	Aluminum or Stainless Steel.	Refer to Supplemental Drawing SS-E7.3 Surge Protection Device required for primary service. I _{max} 50, 20kA, 120/240V, 50/60Hz. Must be installed within panel.
		Vehicle Signal Heads	• Econolite	• Polycarbonate Yellow Body Colour	C/W Cowl Visors or as indicated on Contract Dwgs.
		Backboards	• Econolite	• Aluminum, Yellow Powder Coat	All Primary Vehicle Signal Heads Front Face with 3M Diamond Grade as indicated on Contract Drawings Optional for Secondary Signal, as indicated on contract drawings.
		Pedestrian & Countdown Signal Heads	<ul style="list-style-type: none"> • Econolite • Eagle 		MoT Specifications (Aluminum) <ul style="list-style-type: none"> • 300mm Square c/w Aluminum Peak Visors • Color of Heads, Visors and Brackets to Match Pole
		Vehicle LED Signals	• Dialight	Dialight P/N: <ul style="list-style-type: none"> • Red P/N: 433-1210-003XL15 • Yellow P/N: 433-3230-901XL15 • Green P/N: 433-2220-001XL15 	300mm Round Color Tinted Lens. Clear lens required for bi-modal signal modules P/N: 4306370-001
		Pedestrian LED Signals	• Dialight Top Section – Walk /Don't Walk	Dialight P/N: <ul style="list-style-type: none"> • P/N: 430-6772-001X 	ITE Specifications 300mm Square

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
			Bottom Section – Countdown	• P/N: 430-7773-001X	
		Photocells / Shorting Caps			See Roadway Lighting Section
		Cobra Head Style Luminaires (LED)	<ul style="list-style-type: none"> • LED Roadway Lighting (LRL) • American Electrical Lighting (AEL) 	<ul style="list-style-type: none"> • NXT Series • Autobahn Series 	<ul style="list-style-type: none"> • LED • 4000k • 7 pin PEC connector • Shorting cap • Wattages per design plans
		Advanced Accessible Pedestrian Station (AAPS)	• Polara	<ul style="list-style-type: none"> • ICCU-S2 • IDS2 Ped Buttons • SDLC “Y” Cable Required 	Supplied by City at Developer’s expense.
		Audible Pedestrian Signals (APS)	• Novax	• DS102A-3W APS P/N: PLS001188	Enclosure to match pole colour
		Pedestrian or Cyclist Push Button	• Polara	• BDSP014-Y-CE0063	2 wire system
		PED Push Button Plate	• Greenlite Traffic	• GEL239 (R or L)	Black Symbol on White Background
		Cyclist Push Button Plate	• Greenlite Traffic	• GEL240 (R or L)	Black Symbol on White Background
		Cyclist / Ped Combo Sign Unit	• Greenlite Traffic		Black Symbol on White Background
		Signal Cable	• Texcan	• IMSA 7C, 12C, 19C & 25C No. 14 Stranded Copper	
		Signal Detector Loop Homerun Cable	• Texcan	• IMSA Spec. 50-2 2C No. 14 Stranded Copper	
		Individual Conductor	• Texcan	• RW90 Stranded Copper	Size and Color as per Plans
		Cable Lubricant	• IDEAL	<ul style="list-style-type: none"> • Poly Water Dyna-Blue • Poly Water Aqua-Gel II 	
		Conduit	• Various	• CSA C22.2 NO. 211.2	RPVC
		Conductor Tags	• Panduit	• MP250-C Tags	On All Cables and individual conductors (Black Indelible Marker Pen)
		Fuse Holders	• Tron	Tron Heb-AA	

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		(Pole Hand Holes)		c/w 2 L-type Insulating Boots	
		Fuse Holders (Junction Boxes)	<ul style="list-style-type: none"> • Ideal • Buchanan 	<ul style="list-style-type: none"> • 65 KIT Water Proof 	
		Fuses	<ul style="list-style-type: none"> • Bussman • Mersen 	<ul style="list-style-type: none"> • 10-A KTK • 10-A ATM 	
		Hydro Dip Service (RPVC Straps, Lag Bolts & Conduit Guard)	<ul style="list-style-type: none"> • Various 	<ul style="list-style-type: none"> • MMCD 	
		Overhead Adjustable Bracket	<ul style="list-style-type: none"> • Olson Aluminum Castings 	<ul style="list-style-type: none"> • Sky-Bracket 	C/W Stainless Steel Hardware
		Side Mount Brackets	<ul style="list-style-type: none"> • Greenlite Traffic 	<ul style="list-style-type: none"> • GEL 189G 	C/W Stainless Steel Hardware
		Illuminated Street Name Signs	<ul style="list-style-type: none"> • Greentop Lighting • Image Signs 	<ul style="list-style-type: none"> • Clear Lexan Panels • 3M 4090T – sheeting (translucent) • 3M ElectroCut 1175 blue film • 9" letter height (suffix 4") • Clearview font - 4W • Upper and lower case lettering 	Mounting hardware: CANBRAC for vertical installation or PELCO for hanger assembly SE-5015-42-PNC
		Illuminated Pedestrian Signs	<ul style="list-style-type: none"> • Greentop Lighting • Valid 	<ul style="list-style-type: none"> • MMCD E5.15 	<ul style="list-style-type: none"> • Optional 300mm yellow LED signals and enclosures, as indicated on contract drawings. • Provided with Signal mounting hardware.
		Traffic Controller	<ul style="list-style-type: none"> • Econolite 	<ul style="list-style-type: none"> • Cobalt 	Supplied by City at Developer's expense.
		Traffic Cabinet	<ul style="list-style-type: none"> • Econolite 	<ul style="list-style-type: none"> • P44DD • MSX 	Supplied by City at Developer's expense.
		Uninterruptable Power Supply (UPS)	<ul style="list-style-type: none"> • Alpha Technologies 	<ul style="list-style-type: none"> • FXM HP 1100 	Supplied by City at Developer's expense.
			<ul style="list-style-type: none"> • Alpha Technologies 	<ul style="list-style-type: none"> • Remote Battery Management System (RBMS) 	Supplied by City at Developer's expense.
		UPS Cabinet c/w Indicator Light	<ul style="list-style-type: none"> • Valid 	<ul style="list-style-type: none"> • City Document #1934938 	Supplied and installed by City at Developer's expense.

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Fire Hall Controller	• Novax	• PLS000874 / PLS000877	Supplied by City at Developer's expense.
		Special Crosswalk Controller	• Novax	• PLS 000635 / PLS 000859	Supplied by City at Developer's expense.
		Traffic Video Detection System	• Econolite	• Autoscope Vision • Power Cable	Supplied by City at Developer's expense. • Autoscope Vision • Econolite P/N CBL 1175-011
			• Miovision	• Traffic Link Detection	Supplied by City at Developer's expense: • SmartView 360 Camera • Core DCM • TrafficLink Antenna • Mount P/N: 33120519 • Cat5e cable w/drain
		PTZ Cameras	• Pelco	Spectra Enhanced IP	P/N S7230EG1
				• HPOE	PE-POE75U1UP
				• CAT5e Ethernet cable	Two runs of CAT5e cables required: One for the Ethernet connection, and the 2nd for optional inputs (cabinet door switch)
				• Mounting Hardware	Confirm with City regarding mount type: • Paramount PP350 • OR: • 2 piece mount – PA402 and IWM Series. • Sky-Bracket (if required)
				• Surge Protection	DITEK Corp. (Product code DTK-PVPIP)
				• Product Registration	Registration Update code for Camera Addition – DS Control Point
		EV Pre-emption System	• Emtrac	Priority Detector Card – ST 9283 • Antenna • Antenna Cable (LMR240DB) • Mounting Bracket • BNC Connectors	Supplied by City at Developer's expense.
		Radio	• Encom	• Commpak BB	Supplied by City at

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
		Communication Equipment		5.8 • Cable – CAT5e	Developer's expense.
		Paint Color RAL Codes			<ul style="list-style-type: none">• Coquitlam Green-RAL 6028• Coquitlam Black-RAL 9005• Mallardville Grey-RAL 7024• Or as directed by City Staff