## List of Approved Materials and Products

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

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
26 56 01	Roadway Ligh	ting			
		Cobra Head Style Luminaires	LED Roadway     Lighting (LRL)	NXT Series	<ul> <li>LED</li> <li>3000K - Local Roads (bus routes are 4000k)</li> <li>4000k - Collector and</li> </ul>
			American Electrical Lighting (AEL)	Autobahn Series • ATB2 • ATBO	Arterial Roads • 7 pin PEC connector • Shorting cap • Field Adjustable Driver
		Decorative Roadway Luminaires	Phillips Lumec	TR20     Capella     Domus     CAND 1 /     CAND 2	required for Cobra Head style fixtures (Or decorative fixtures where adjustable drivers come as an option)
			• Lumenpulse	• Pure 100	<ul> <li>Wattages per design</li> <li>2 Tenon adaptors required for post top poles using Cobra Head Luminaires –</li> <li>a) LRL Part# (FP-FTP- NXT-GY-06-LF)</li> <li>b) Valmont WCE Part# (WCE TEN-3.5-FIT-PC) RAL7035</li> </ul>
		Pathway / MUP Lighting	Lumenpulse     LED Roadway     Lighting (LRL)     Phillips Lumec	Pure 100     NXT-S series     TR20     Capella     Domus     CAND 1 /     CAND 2	<ul> <li>LED</li> <li>4000K Confirm with City</li> <li>7 pin PEC connector</li> <li>Shorting cap</li> <li>Wattages per design plans</li> </ul>
		Photocell / Shorting Caps	DTL (Dark to Light)     Intermatic	<ul> <li>DE 120 for 102V</li> <li>DE 124 for 120/240V</li> <li>DE 347 for 347V</li> <li>DE 480 for 480V</li> <li>P/N LED45652</li> </ul>	• Electronic c/w relay contacts
		Poly/Conc Junction Boxes	CIF Composites Inc     Duralite	Sizes: • 11 x 18 • 17 x 30 • 24 x 36	<ul> <li>2 Sections max</li> <li>Plastic Junction Boxes Will Not Be Accepted</li> <li>Round Junction Boxes</li> </ul>

Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
			will not be Accepted
Concrete Junction Boxes	AE Concrete	<ul> <li>TYPE 66 =T266</li> <li>TYPE 37 = B937</li> <li>TYPE C = 5686</li> </ul>	
Poles / Arms	<ul> <li>Valmont West Coast Engineering</li> <li>Nova Pole</li> <li>Lumec</li> </ul>		<ul> <li>Galvanized and Powder Coated.</li> <li>As per Design Drawings or Local Neighborhood Design Guidelines</li> </ul>
Concrete Bases	<ul><li>AE Concrete</li><li>Langley Concrete</li></ul>		Per MMCD / Refer to Supplementary Drawing SS-E7.3
Service Bases	<ul> <li>Valmont West Coast Engineering</li> <li>Nova Pole</li> </ul>		<ul> <li>PER MMCD / Refer to Supplementary Drawing SS-E7.3</li> <li>Galvanized and Powder Coated</li> <li>Robust Tab For Padlock</li> </ul>
Service / Electrical Panels	West Coast Electric     Valid	Aluminum or Stainless Steel	<ul> <li>Refer to Supplementary Drawing SS-E7.3 and SS- E7.4</li> <li>Surge Protection Device required for primary service. Imax 50, 20kA, 120/240V, 50/60Hz. Must be installed within panel.</li> </ul>
Conductor Tags	• Panduit	• MP250-C TAGS	On All Cables and individual conductors (Black Indelible Marker Pen)
Individual Conductor	• Texcan	• RW90 Stranded Copper	Size and Color as per Plans
Conduit	Various	• CSA C22.2 No. 211.2	<ul><li> RPVC</li><li> DBII will not be accepted</li></ul>
Hydro Dip Service (RPVC Straps / Lag Bolts / Conduit Guard)	Various	• MMCD	
Fuse Holders (Pole Hand Holes)	• Tron	<ul> <li>Tron HEB-AA c/w 2 L-Type Insulating Boots</li> </ul>	
Fuse Holders (Junction Boxes)	<ul><li>Ideal</li><li>Buchanan</li></ul>	• 65 KIT Water Proof	
Fuses	<ul><li>Bussman</li><li>Mersen</li></ul>	<ul><li>10-A KTK</li><li>10-A ATM</li></ul>	
Receptacles	Leviton	• Leviton Smartlock Pro Slim (WR)	Or City Approved Corrosion Resistant Alternate

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
				GFCI	
		Cable Lubricant	• Ideal	<ul> <li>Poly Water Dyna-Blue</li> <li>Poly Water Aqua-Gel II</li> </ul>	
		Paint Color RAL Codes			Coquitlam Green-RAL 6028     Coquitlam Black-RAL 9005     Mallardville Grey-RAL 7024
	Irrigation Syst	em			
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</td <td>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.</td>	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		<ul><li>Sensus</li><li>Neptune</li></ul>	<ul> <li>Touch Read</li> <li>Pro Read</li> </ul>	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
		Wire splice	• 3M	DBY     connector	

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
20.04.040	Tanadianal				
32 91 21S 2.5	Topsoil and I     Crawing	Finish Grading	Fraser Richmond	1	
	Growing Medium		Bio-Cycle • BC Eco Soil Recycling Corp • YardWorks • Denbow		
2.7	Bark Mulch		Answer Garden Products	Nutri-Mulch	
2.9	Misc. Products	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	Structural Soil	Soil	Answer Garden Products	Humus Builder	
		Structural Geotextile	Nilex Geotextile	Nilex 4553	
32 92 19S	Hydraulic See				
2.2	Seed Mix	Perennial Rye		<ul> <li>Elka II</li> <li>Gator 3</li> <li>Top Hat</li> <li>Charismatic</li> <li>All Star</li> <li>Derby Supreme</li> </ul>	
		Fescues		Cindy     Longfellow II     Cindy Lou     Quatro     Shademaster II	
		Kentucky Bluegrass		<ul> <li>Shamrock</li> <li>Boardway</li> <li>Midnight</li> <li>Julius</li> <li>Allure</li> </ul>	
3.5.3	Fertilizer			Evergrow     28-3-8	
32 92 20	Seeding				
2.1.2	Seed Mix	Perennial Rye		<ul> <li>Elka II</li> <li>Gator 3</li> <li>Top Hat Charismatic</li> <li>All Star</li> <li>Derby Supreme</li> </ul>	
		Fescues		<ul> <li>Cindy</li> <li>Longfellow II</li> <li>Cindy Lou</li> <li>Quatro</li> <li>Shademaster II</li> </ul>	

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Kentucky Bluegrass		<ul> <li>Shamrock</li> <li>Boardway</li> <li>Midnight</li> <li>Julius</li> <li>Allure</li> </ul>	
32 93 01S	Planting of Tre	ees, Shrubs and Groui		i	r
2.3		Fertilizer	Agrico	Evergro Tabs	Common a stand
2.4		Mulch	<ul> <li>Yard Works</li> <li>Eco-Soil</li> <li>Fraser Richmond Bio-cycle</li> </ul>		Composted
2.8		Guying Wire	<ul> <li>Tree Guy Systems</li> </ul>	Arrow Anchor	
2.11		Anti-desiccant	<ul> <li>GSI Horticultural</li> </ul>	Moisturin	
2.12		Flagging Tape		<ul> <li>Indenti-Tape</li> </ul>	
2.13		Tree Trunk Protection	<ul> <li>Deep Roots Products</li> </ul>	Arborgard	
2.16		Tree Ties	<ul> <li>Deep Roots Products</li> </ul>	Arbor Tie	
33 11 01	Waterworks				
2.2.1	Water Main Ductile Iron	Ductile Iron	<ul> <li>McWane Group</li> <li>US Pipe</li> <li>Canada Pipe</li> </ul>		CL 50 for all mains less than 400mm dia. and Pressure Class 350 for all mains 400mm dia or larger
2.2.2	Water Main PVC	PVC (C900) PVCO (C909)	<ul> <li>Ipex Royal Pipe Systems</li> <li>Ipex</li> </ul>	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.
2.2.3	Water Main HDPE	HDPE	KWH Pipe     Performance Pipe	<ul><li>Sclairpipe</li><li>DriscoPlex</li></ul>	HDPE to be used only where shown on approved construction drawings.

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		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
2.2.4.2/3	Water Main Fitting Ductile Iron	Ductile Iron Compact Ductile Iron	<ul> <li>Terminal City Iron Works</li> <li>Norwood Foundry</li> <li>Sigma Products</li> <li>Star Pipe Products</li> </ul>		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> <li>Robar</li> <li>Smith-Blair</li> <li>Romac</li> <li>Mueller</li> <li>Ford</li> <li>EBBA Iron</li> </ul>	<ul> <li>Robar 1508</li> <li>Smith- Blair441</li> <li>Romac 501</li> <li>Mueller MRC</li> <li>Ford FC1</li> <li>EBBA 3800</li> </ul>	Type 304 Grade A stainless steel for all hardware All couplings and flange adapters are to have a fusion epoxy coating.
		Flanged Adapter	<ul> <li>Robar</li> <li>Smith-Blair</li> <li>Romac</li> <li>Mueller</li> <li>EBAA</li> <li>Clow</li> <li>Star Pipe Products</li> <li>Sigma</li> </ul>	<ul> <li>Robar 7504/7506</li> <li>Smith- Blair912</li> <li>Romac FCG</li> <li>Mueller</li> <li>EBAA Iron 1000</li> <li>Clow Series 40, DI</li> <li>Clow Series 90, PVC</li> <li>Star Series 400</li> <li>Sigmaflange</li> </ul>	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	Romac     Uniflange     EBAA     Star Pipe Products	<ul> <li>Romac RFCA</li> <li>Uniflange RFAP</li> <li>EBAA 2100</li> <li>Super Flange Series 7200</li> </ul>	Type 304 Grade A stainless steel required for all hardware. All restrained flange adapters are to have a fusion epoxy coating.
		Repair Clamps	Canpac     Mueller     Robar     Clow     Romac     Cambridge Brass	<ul> <li>Canpac CR-2</li> <li>Mueller 510</li> <li>Robar 5626</li> <li>Clow 200</li> <li>Romac SS2</li> <li>Teck Series 425, 825, 1625</li> </ul>	Repair clamps shall be stainless steel. Type 304 Grade A stainless steel required for all hardware.

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
2.2.13	2.2.13 Joint Restraint Ductile Iron Mains		<ul> <li>UniFlange Series 1400</li> <li>EBAA Iron</li> <li>Clow</li> <li>Star Pipe Products</li> </ul>	<ul> <li>UniFlange Series 1400</li> <li>EBAA Iron 1100</li> <li>Clow Tufgrip TDG</li> <li>Split Stargrip Series 3100</li> </ul>	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
	Joint Restraint PVC / PVCO Mains		UniFlange     EBAA Iron     Star Pipe Products	<ul> <li>UniFlange Series 1300</li> <li>UniFlange Series 1500</li> <li>EBAA 1500</li> <li>EBAA 1900</li> <li>PVC Stargrip Series 4100</li> </ul>	all hardware. 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><li> Ipex</li><li> Royal</li></ul>	<ul> <li>Ipex Terrabrute</li> <li>Royal Bulldog</li> <li>Royal Cobra Lock</li> </ul>	Restrained pipe joint systems to be approved prior to use.
	Restrained Joint Pipe Systems (DI)		<ul><li>US Pipe</li><li>McWane</li></ul>	<ul> <li>Field Lok Gasket</li> <li>SureStop Gasket</li> </ul>	Restrained pipe joint systems to be approved prior to use.
2.3	Valves and Valve Boxes	50mm – 300mm Resilient-seated Mainline Gate Valve	<ul> <li>Mueller</li> <li>Clow Canada</li> <li>AVK</li> <li>American Flow Control</li> <li>Terminal City</li> </ul>	<ul> <li>Mueller A2362</li> <li>Clow 2639</li> <li>AVK</li> <li>AFC Series 2500</li> <li>IBBM</li> </ul>	All valves shall have epoxy coated ductile iron body to AWWA C 509.
		375mm or greater Mainline Butterfly Valve	Pratt     Mueller	<ul> <li>Pratt Groundhog</li> <li>Mueller Lionseal</li> </ul>	AWWA C 504 Class 150B
2.3.5	Air Valve		<ul> <li>Apco</li> <li>Val-Matic</li> <li>Pratt</li> <li>Crispin</li> </ul>	<ul> <li>APCO 140C</li> <li>Val-Matic 201C</li> <li>Pratt UL</li> <li>Crispin UL</li> </ul>	
2.3.6	Water Valve	Nelson Box,	Terminal City		Cover shall be marked

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		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
	Вох	450mm length 150mm riser pipe with circular box	<ul><li>Dobney</li><li>Westview</li><li>Trojan</li></ul>		with "Water".
2.3.7	Curb Stop Box		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> <li>Robar</li> <li>Smith Blair</li> <li>Mueller</li> <li>Romac</li> <li>Cambridge Brass</li> </ul>	<ul> <li>Robar 2506</li> <li>Smith Blair 317</li> <li>Mueller DR2S</li> <li>Romac 202NS</li> <li>Teck Series 840X</li> </ul>	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> <li>Canpac</li> <li>Robar</li> <li>Cambridge Brass</li> <li>Mueller</li> </ul>	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		Terminal City     Canada Valve     Clow Canada     Mueller	<ul> <li>TC C71P, TC- 1, TC-20P</li> <li>"Century"</li> <li>M93 Brigadier</li> <li>Centurion</li> </ul>	Must have Storz fitting on pumper port Refer to Supplementary Specifications for paint colors
2.7	Corporation Stop		<ul> <li>Cambridge</li> <li>Ford</li> <li>Mueller</li> <li>AY-MacDonald</li> </ul>	<ul> <li>Cambridge 311</li> <li>Ford B1000</li> <li>Mueller B2500800N</li> <li>MacDonald 74700</li> </ul>	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
2.7	Curb Stop		Cambridge     Ford     Mueller	<ul> <li>Cambridge 202</li> <li>Ford B44- 343G</li> <li>Mueller</li> </ul>	Shall be full-port ball valve to 50 mm with 90 <sup>0</sup> turn stop. Use mainline gate valve for larger sizes > 50mm

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
			AY-MacDonald	B25209 MacDonald 76100	
33 30 01	Sanitary Sewe	rs			
2.1	Concrete				Not allowed
2.2	PVC Pipe, Mainline Smooth Profile	PVC SDR35	<ul><li> IPEX</li><li> Royal</li><li> JM Eagle</li></ul>		Sizes > than 600 mm to be approved by the Engineer
2.3	Sanitary Service Connection	PVC SDR28	<ul> <li>IPEX</li> <li>Royal</li> <li>JM Eagle</li> </ul>		Minimum size shall be 100mm
	Inspection Chamber	Inspection Chamber	<ul> <li>Le-Ron</li> <li>Pro-Line Fittings</li> <li>Galaxy Plastics</li> </ul>		IC's shall have locking lid with gasket
	Tees and Wyes	PVC SDR35	<ul> <li>IPEX</li> <li>Royal</li> <li>Galaxy Plastics</li> <li>GPK Products</li> </ul>		Manufactured wye fitting shall be used for all connections on new mains.
	Sewer Couplers PVC – Other Other – Other		Rollee     Fernco	Rollee     Fernco	Couplers (Shear band type) shall have appropriate adaptor gaskets to suit OD of pipe material being coupled
	Sewer Couplers PVC – PVC		<ul> <li>Royal/Le-Ron</li> <li>Pro-Line Fittings</li> <li>Galaxy Plastics</li> </ul>		To be gasketed push on type
33 34 01	Sewage Force	mains		_	
2.2.4	Low- pressure Sewage Forcemains	HDPE with fusion welded joints	KWH     Performance Pipe	<ul><li>Sclairpipe</li><li>DriscoPlex</li></ul>	AWWA C906
	Service Connections	Wyes and Tees			Manufactured fitting shall be used for all connections on new mains.
33 40 01	Storm Sewers			_	
2.1	Concrete Pipe	Non-reinforced and Reinforced Concrete	Langley Concrete     Ocean Pipe		
2.2	PVC Pipe, Mainline	PVC SDR35	<ul><li>IPEX</li><li>Royal</li></ul>		Sizes > than 600 mm to be approved by the Engineer.

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
	Smooth Wall		• JM Eagle		
2.4	HDPE Pipe, Mainline Open Profile		Armtec     Hancor	<ul> <li>Armtec Boss 2000</li> <li>Hancor Blue Seal</li> </ul>	Allowed on a case by case basis as approved by the Engineer.
2.6	Service Connections	PVC SDR28	<ul> <li>IPEX</li> <li>Royal</li> <li>JM Eagle</li> </ul>		Minimum size shall be 150mm.
	Tees and Wyes	PVC SDR35	<ul> <li>IPEX</li> <li>Royal</li> <li>Galaxy Plastics</li> <li>GPK Products</li> </ul>		Manufactured wye fitting shall be used for all connections on new mains.
		Insertable Tee	Inserta Tee		Insertable tee only permitted for connections to existing PVC and Concrete mains which are 375mm mains or larger.
	Inspection Chamber	Inspection Chamber	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> <li>Langley Concrete</li> <li>Ocean Pipe</li> <li>Diamond Concrete</li> </ul>		
2.1.7	Manhole Frames and Covers	Ductile Iron for Arterial Roads	<ul> <li>Westview Sales</li> <li>Dobney</li> </ul>	• 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> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	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. 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

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
	2.1.13 Catch Basin and Other Castings	CB Frame	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B24 • TR24	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Grate	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B23 • TR23R&L	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Frame – Side Inlet Assembly	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B39A • TR39A	Refer to Supplementary Standard Drawings COQ- S11A – Side Inlet Catch Basin Assembly
		CB Grate – Side Inlet Assembly	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B39 • TR39	Refer to Supplementary Standard Drawings COQ- S11A – Side Inlet Catch Basin Assembly
		Curb Inlet	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B24FTH • TR24C	
		Lawn Basin Grate (600mm Barrel)	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• B22A • TR22	Lawn Drains – MMCD Standard Drawing S12
		Lawn Basin Grate (300mm Barrel)	<ul> <li>Dobney Foundry</li> <li>Westview Sales Ltd.</li> </ul>	• D2A • TR12	Lawn Drains – MMCD Standard Drawing S12
03 30 20	Concrete Wall	ks, Curbs and Gutter			
		Cast-in-Place Tactile panel	<ul><li>Access Tile</li><li>Amor-Tile</li></ul>	<ul><li>ACC-R-2x4</li><li>ADA-C-2448</li></ul>	See Supplementary Drawing COQ-C9E
34 41 13	Traffic Signal	I	1		1
		Polymer Concrete Junction Boxes	CIF Composites Inc     Duralite	Sizes: • 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	AE Concrete	<ul> <li>SP635-1.3.3 (4040 Service Box)</li> <li>Type 66=T266</li> <li>Type 37=B937</li> <li>Type C =5686</li> </ul>	Refer to Supplementary Drawing SS-E2.5
		Poles / Arms	<ul> <li>Valmont West Coast Engineering</li> <li>Nova Pole</li> </ul>		Galvanized and Powder Coated (See Roadway Lighting Section for Paint Codes)
		Concrete Bases	AE Concrete     Langley Concrete		For Concrete service bases refer to Supplemental Drawing SS-

Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
			E7.3
Service Bases	<ul> <li>Valmont West Coast Engineering</li> <li>Nova Pole</li> </ul>		Refer to Supplemental Drawings SS-E7.3 and SS- E7.4 Robust Tab for Padlock
Service / Electrical Panels	West Coast Electric     Valid	Aluminum or Stainless Steel.	Refer to Supplemental Drawing SS-E7.3 Surge Protection Device required for primary service. Imax 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	Econolite     Eagle		MoT Specifications (Aluminum) • 300mm Square c/w Aluminum Peak Visors • Color of Heads, Visors and Brackets to Match Pole
Vehicle LED Signals	• Dialight	Dialight P/N: • 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     Bottom Section –     Countdown	Dialight P/N: • P/N: 430- 6772-001X • P/N: 430- 7773-001X	ITE Specifications 300mm Square
Photocells / Shorting Caps			See Roadway Lighting Section
Cobra Head Style Luminaires (LED)	LED Roadway     Lighting (LRL)	NXT Series	<ul><li>LED</li><li>4000k</li><li>7 pin PEC connector</li></ul>
	<ul> <li>American Electrical Lighting (AEL)</li> </ul>	Autobahn Series <ul> <li>ATB2</li> </ul>	<ul><li>Shorting cap</li><li>Wattages per design</li></ul>

Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		ATBO	plans
Advanced Accessible Pedestrian Station (AAPS)	• Polara	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	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 (Pole Hand Holes)	• Tron	Tron Heb-AA c/w 2 L-type Insulating Boots	
Fuse Holders (Junction Boxes)	<ul><li>Ideal</li><li>Buchanan</li></ul>	65 KIT Water     Proof	
Fuses	<ul><li>Bussman</li><li>Mersen</li></ul>	• 10-A KTK • 10-A ATM	
Hydro Dip Service (RPVC Straps, Lag	Various	MMCD	

Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
Bolts & Conduit Guard)			
Overhead Adjustable Bracket	Olson Aluminum     Castings	Sky-Bracket	C/W Stainless Steel Hardware
Side Mount Brackets	Greenlite Traffic	• GEL 189G	C/W Stainless Steel Hardware
Illuminated Street Name Signs	Greentop Lighting     Image Signs	<ul> <li>Housing size 72" x 20"</li> <li>Clear Lexan Panels</li> <li>3M 4090T – sheeting (translucent)</li> <li>3M ElectroCut 1175 blue film</li> <li>9" letter height (suffix 4")</li> <li>Clearview font - 4W</li> <li>Upper and lower case lettering</li> </ul>	Mounting hardware: CANBRAC for vertical installation or PELCO for hanger assembly SE-5015- 42-PNC
Illuminated Pedestrian Signs	Greentop Lighting     Valid	• MMCD E5.15	<ul> <li>Optional 300mm yellow LED signals and enclosures, as indicated on contract drawings.</li> <li>Provided with Signal mounting hardware.</li> </ul>
Traffic Controller	• Econolite	Cobalt	Contact/confirm City staff regarding latest spec.
Traffic Cabinet	Econolite	P44DD     MSX	Contact/confirm City staff regarding latest spec.
Uninterruptable Power Supply (UPS)	Alpha     Technologies	• FXM HP 1100	Contact/confirm City staff regarding latest spec.
Battery Monitoring Device	Alpha     Technologies	Remote     Battery     Management     System     (RBMS)	Contact/confirm City staff regarding latest spec.
UPS Cabinet	• Valid	• KSDA481716P G-CQ	Coquitlam Spec - c/w UATS & UGTS Battery harness Y Connector AlphaCell 195 XTB Batteries Interconnect Cables
UPS Indicator Light	RAB Design     Lighting	Model No.     DVBKS100CG     LED Fixture	Refer to Supplemental Drawings SS-E7.3

## **City of Coquitlam** Engineering & Public Works

	Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
	Fire Hall Controller	Novax	• PLS000874 / PLS000877	Contact/confirm City staff regarding latest spec.
	Special Crosswalk Controller	Novax	• PLS 000635 / PLS 000859	Contact/confirm City staff regarding latest spec.
	Traffic Video Detection System	Miovision	Traffic Link     Detection	Contact/confirm City staff regarding latest spec.
	PTZ Cameras	Pelco	Spectra Enhanced IP • HPOE • CAT5e Ethernet cable	Contact/confirm City staff regarding latest spec. Contact/confirm City staff regarding latest spec. Cat5e as required by selected camera
			Mounting Hardware     Surge Protection	Confirm with City regarding mount type: • Paramount PP350 • OR: • 2 piece mount – PA402 and IWM Series. • Sky-Bracket (if required) DITEK Corp. (Product code
			Product     Registration	DTK-PVPIP) 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	Contact/confirm with City staff regarding latest spec.
	Radio Communication Equipment	• Encom	Commpak BB     5.8     Cable – CAT5e	
	Paint Color RAL Codes			<ul> <li>Coquitlam Green-RAL 6028</li> <li>Coquitlam Black-RAL 9005</li> <li>Mallardville Grey-RAL 7024</li> <li>Or as directed by City Staff</li> </ul>