Niagara Region – Transportation - Approved Product and Equipment List (APEL)

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Roads

Item	Description	Make	Model No.	Supplier	Product Info
Sidewalk Tactile Warning Plates	Cast Iron Plates			Neenah Foundry	https://www.nfco.com/
Sidewalk Tactile Warning Plates	Cast Iron Plates			East Jordan Foundry	New East Jordan Foundry (ejco.com)
Sidewalk Tactile Warning Plates	Cast Iron Plates			Cedar Infrastructure Products	Home | Cedar Infrastructure Products LP (cedarcip.com)
Sidewalk Tactile Warning Plates	Cast Iron Plates			Kinesik Engineered Products Inc	Leading Accessibility Solutions Provider | Kinesik Products
Sidewalk Tactile Warning Plates	Cast Iron Plates			Ontario Utility Castings Inc	Quality Cast, Ductile and Aluminum Products | Ontario Utility Castings Inc (oucastings.com)
Cold Mix	ProPatch			Innovative Surface Solutions	https://www.nfco.com/
Permanent Asphalt Repair (PAR)	Road Shouldering Coating	Ecoloc 555 Road and Shoulder		CRC Coatings – IMCO Technologies	Road Base & Shoulder Spray Coatings - Eco-Loc 555 - CRC Coating Technologies Inc. (crccoatings.com)

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Item	Description	Make	Model No.	Supplier	Product Info
Manhole Frames and Grates – Self Adjustable	Self Adjustable – for installation on roads with less than 10,000 AADT, and delayed top asphalt			Cedar Infrastructure Products	Home | Cedar Infrastructure Products LP (cedarcip.com)
Manhole Frames and Grates – Self Adjustable	Self Adjustable – for installation on roads with less than 10,000 AADT, and delayed top asphalt			East Jordan Foundry	New East Jordan Foundry (ejco.com)
Oil Grit Separators	Hydroguard		HG-#	Hydroworks	
Oil Grit Separators	HydroDome		HydroDome	Canadian Infrastructure Products	
Sewer Connections	SaniTite	ADS	SaniTite	ADS	
Sewer Connections	InsertaTee	ADS	InsertaTee	ADS	
Asphalt Reinforcing Fibre	FORTA-FI			FORTA Corporation	
Asphalt Reinforcing Fibre	Aramid Fibre			Surface Tech	

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Item	Description	Make	Model No.	Supplier	Product Info
Flexible Bollard	Bike Lane Delineator Post	Cyclo-Zone		DeveloTech	https://www.develotech.com/en/bicycle-path-flexible-bollard/
Flexible Bollard	In-street Traffic Calming Sign	Ped-Zone speed reduction sign	PZ-2022, PZ-2120, PZ-2121, PZ-2304, PZ-2621, PZ-2625, PZ-2627	DeveloTech	https://www.develotech.com/en/sign-speed-reduction/
Flexible Bollard	In-street Pedestrian Crossover Sign	Ped-Zone Pedestrian Crossover Sign	PZ-1223	DeveloTech	https://www.develotech.com/en/sign-pedestrian-crossovers/
Pavement Marking Equipment	2 gun line striper with dual bead dispenser	Titan	PowrLiner 6955	Sherwin-Williams Paints	https://www.sherwin-williams.com/

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Ducting

Item	Description	Make	Model No.	Supplier	Product Info
Rigid PVC Traffic Duct	50mm (2") and 100mm (4")	Sceptre or Approved Equivalent	NA	Nedco Electric	https://www.nedco.ca/cnd/
HDPE Traffic Duct	50mm (2") and 100mm (4")	Lamson	SDR 13.5	Nedco Electric	https://www.nedco.ca/cnd/
Conduit Bell Ends	50mm (2") and 100mm (4")	Sceptre	EB-35	Nedco Electric	https://www.nedco.ca/cnd/

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Junction Boxes

Item	Description	Make	Model No.	Supplier	Product Info
Junction Box (Underground Enclosure)	Quazite 13 x 24 x 18 Tier 15 Flared Wall (Nestable) Junction Box w/ 2 Penta bolt cover (Electric Logo)	Hubbell Power Systems Inc.	B12132418A (Junction Box) C12132402A (Cover)	Guillevin or Nedco Electric	https://www.guillevin.com/eediv_electric_en/ https://www.nedco.ca/cnd/
Junction Box (Underground Enclosure)	Quazite 13 x 24 x 12 Tier 15 Flared Wall (Nestable) Junction Box w/ 2 Penta bolt cover (Electric Logo)	Hubbell Power Systems Inc.	B12132412A (Junction Box) C12132402A (Cover)	Guillevin or Nedco Electric	https://www.guillevin.com/eediv_electric_en/ https://www.nedco.ca/cnd/
Junction Box (Underground Enclosure)	13 x 24 x 18 Tier 15 Flared Wall (Nestable) Junction Box w/ 2 Penta bolt cover (Electric Logo)	Oldcastle Infrastructure	1324F Oldcastle FRP	Guillevin or Nedco Electric	https://www.guillevin.com/eediv_electric_en/ https://www.nedco.ca/cnd/
Junction Box (Underground Enclosure)	13 x 24 x 12 Tier 15 Flared Wall (Nestable) Junction Box w/ 2 Penta bolt cover (Electric Logo)type 6	Oldcastle Infrastructure	1324F Oldcastle FRP	Guillevin or Nedco Electric	https://www.guillevin.com/eediv_electric_en/ https://www.nedco.ca/cnd/
Junction Box (Underground Enclosure)	Bulk	Channell	2 & 3	Nedco	https://www.channell.com/product-category/vaults/

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Pole and Anchor Assemblies

Item	Description	Make	Model No.	Supplier	Product Info
Pole Foundation Anchor Assemblies	Type 1 Pole Anchorage	National Concrete Accessories	DGR-2S-190 1cm x 19cm x 19cm (3/4" x 7 1/2" x 7 1/2")	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Foundation Anchor Assemblies	Type 1 Pole Anchorage	PoleFab/AMG	ANCHOR 190BCD x 305 DEPTH	PoleFab/AMG	https://polefab.com/
Pole Foundation Anchor Assemblies	Type 3 Pole Anchorage	PoleFab/AMG	ANCHOR 323BCD x 457 DEPTH	PoleFab/AMG	https://polefab.com/
Pole Foundation Anchor Assemblies	Type 3 Pole Anchorage	National Concrete Accessories	DGR-2S-323 2cm x 23cm x 23cm (1" x 9" x 9")	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Foundation Anchor Assemblies	Type 5 Pole Anchorage	PoleFab/AMG	ANCHOR 395BCD x 457 DEPTH	PoleFab/AMG	https://polefab.com/
Pole Foundation Anchor Assemblies	Type 5 Pole Anchorage	National Concrete Accessories	DGR-2S-395 3cm x 28cm x 28cm (1 1/4" x 11" x 11")	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Foundation Anchor Assemblies	Type 6 Pole Anchorage	National Concrete Accessories	DGR-2S-449 3cm x 32cm x 32cm (1 1/4 x 12 1/2" x 12 1/2")	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Foundation Anchor Assemblies	Type 6 Pole Anchorage	PoleFab/AMG	ANCHOR 449 BCD x 457 DEPTH	PoleFab/AMG	https://polefab.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Pole Foundation Anchor Assemblies	Type 8 Pole Anchorage	National Concrete Accessories	DGR-2S-592 3cm x 42cm x 42cm (1 1/4 x 16 1/2" x 16 1/2")	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Foundation Anchor Assemblies	Type 8 Pole Anchorage	PoleFab/AMG	ANCHOR 592 BCD x 760 DEPTH	Pole/Fab AMG	https://polefab.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Pole Plates	Mast Arm Base	Sentinel	Wood Pole - 1.2m-2.4m (4'-8') Arm, 3m-4.6m (10'-15') Arm, 5.5m-7.6m (18'-24') Arm	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Plates	Steel or Concrete Pole - Type 3 Mast Arm Base	Sentinel	1.2m-2.4m (4'-8') Arm, 3m-4.6m (10'-15') Arm, 5.5m-7.6m (18'-24') Arm	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Plates	Steel or Concrete Pole - Type 5 Mast Arm Base	Sentinel	4TR-78 - 1.2m-2.4m (4'-8') Arm 5TR-78 - 3m-4.6m (10'-15') Arm 6TR-78 - 5.5m-7.6m (18'-24') Arm	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pole Plates	Steel or Concrete Pole - Type 6 Mast Arm Base	Sentinel	4TR-78 - 1.2m-2.4m (4'-8') Arm 5TR-78 - 3m-4.6m (10'-15') Arm 6TR-78 - 5.5m-7.6m (18'-24') Arm	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/

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Poles

Item	Description	Make	Model No.	Supplier	Product Info
Pedestrian Pole **	Type 1 - 1.5m Spun Aluminum	Sentinel	TP5-550-AB190	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pedestrian Pole **	Type 1 - 1.5m Spun Aluminum	PoleFab/AMG	PF-7505PB-AL	PoleFab/AMG	https://polefab.com/
Pedestrian Pole **	Type 1 - 3.66m Spun Aluminum	Sentinel	SRAL5-12-AB190	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Pedestrian Pole **	Type 1 - 3.66m Spun Aluminum	PoleFab/AMG	PF-7512PB-AL	PoleFab/AMG	https://polefab.com/
Signal and Illumination Pole *	Type 3 - 5.26M Sectional Steel Pole 1-3 base mounted w/ 4" x 9" HH galvanized	PoleFab/AMG	PF13C49B-GA/AS	PoleFab/AMG	https://polefab.com/
Signal Pole/Illumination Pole *	Type 5 - 5.52m Sectional Steel Pole 3/3-5 base mounted w/ 7" x 12" HH @ 24" w/ insert, galvanized	PoleFab/AMG	PF335C712B-H-IN-GA	PoleFab/AMG	https://polefab.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Signal and Illumination Pole *	Type 5 – 8.92m Sectional Steel Pole 1-5 base mounted w/ 7"x12" HH @1100mm twin pipe spacer c/w insert Galvanized	PoleFab/AMG	PF15C712B-H-IN-GA	PoleFab/AMG	https://polefab.com/
Signal and Illumination Pole *	Type 6 - 5.42m Sectional Steel Pole 4/4-6 base mounted w/ 7" x 12" HH @ 24" w/ insert, galvanized	PoleFab/AMG	PF6544C712B-H-IN-GA	PoleFab/AMG	https://polefab.com/
Signal and Illumination Pole *	Type 6 - 10.5m Sectional Steel Pole 1-6 base mounted w/ 7"x12" HH @ 39-3/8" twin pipe spacer c/w insert galvanized	PoleFab/AMG	PF16C712B-H-2P-IN-GA	PoleFab/AMG	https://polefab.com/
Signal and Illumination Pole *	Type 6 - 7.0M Sectional Steel Pole 3-6 direct burial w/ 4" x 6" HH galvanized	PoleFab/AMG	PF36S46D-GA/AS	PoleFab/AMG	https://polefab.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Signal and Illumination Pole *	Type 7 - 12.0M Sectional Steel Pole 1-7 direct bury w/ 7x12" HH twin galvanized	PoleFab/AMG	PF17C712D-2P-GA/AS	PoleFab/AMG	https://polefab.com/
Signal and Illumination Pole *	Type 8 - 10.4m Sectional Steel Pole 0-8 BM w/ 7x12 HH @ 39-3/8" 2-3/8" OD tenon w/ 35' cant arm GA	PoleFab/AMG	PF08C712B-2.0-35A-GA/AS	PoleFab/AMG	https://polefab.com/
Illumination Pole	Decorative Concrete Pole	StressCrete	206A6336-4	StressCrete Group	http://www.scgrp.com/home
Illumination Pole	Concrete Pole 12.2m (40')	StressCrete	NR-40BPR	StressCrete Group	http://www.scgrp.com/home
Decorative Pole Base *	Niagara Region Cast Aluminum Base Cover	PoleFab/AMG	F055159	PoleFab/AMG	https://polefab.com/

* Direct buried and base mounted sectional steel poles decorative upgrade (black - Polecoat) can be requested as an upgrade
**Base mounted poles decorative upgrade (Black Powdercoating) can be requested as an upgrade

Pole Details can be found at Appendix H on the Traffic Signal Standards web page: Traffic Signal Standards - Niagara Region, Ontario

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Arms

Item	Description	Make	Model No.	Supplier	Product Info
Signal Mast Arm **	1.22m (4')	Alluminous	TR4-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	1.22m (4')	Alluminous	TR4-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	1.82m (6')	Alluminous	TR6-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	1.82m (6')	Alluminous	TR6-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	2.44m (8')	Alluminous	TR8-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	2.44m (8')	Alluminous	TR8-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	3.05m (10')	Alluminous	TR10-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	3.05m (10')	Alluminous	TR10-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	3.66m (12')	Alluminous	TR12-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	3.66m (12')	Alluminous	TR12-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	4.57m (15')	Alluminous	TR15-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Signal Mast Arm **	4.57m (15')	Alluminous	TR15-SMA	Nedco Electric	https://www.nedco.ca/cnd/
Signal Mast Arm **	5.48m (18')	Alluminous	TR18-SMA	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Signal Mast Arm **	5.48m (18')	Alluminous	TR18-SMA	Nedco Electric	https://www.nedco.ca/cnd/

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Item	Description	Make	Model No.	Supplier	Product Info
Basket Hanger Arm	Flowerpot Support Arm (black)	PoleFab/AMG	9489T38	PoleFab/AMG	https://polefab.com/
Banner Arms	Round Tapered Banner Arm 25" (black)	PoleFab/AMG	BNA25-BL	PoleFab/AMG	https://polefab.com/
Luminaire Arm ** (Elliptical)	1.82m (6')	Alluminous	RE6-35125	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm ** (Elliptical)	1.82m (6')	Alluminous	RE6-35125	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm ** (Elliptical)	2.44m (8')	Alluminous	RE8-4125	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm ** (Elliptical)	2.44m (8')	Alluminous	RE8-4125	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm ** (Elliptical)	2.44m (8') MTO	Alluminous	RE8-4188	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm ** (Elliptical)	2.44m (8') MTO	Alluminous	RE8-4188	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm ** (Elliptical)	3.05m (10')	Alluminous	RE10-4188	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm ** (Elliptical)	3.05m (10')	Alluminous	RE10-4188	Nedco Electric	https://www.nedco.ca/cnd/

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Item	Description	Make	Model No.	Supplier	Product Info
Luminaire Arm (Wood Poles)	2.44m (8')	Alluminous	ALP-WE8M	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm (Wood Poles)	2.44m (8')	Alluminous	ALP-WE8M	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm (Wood Poles)	3.05m (10')	Alluminous	ALP-WE10M	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm (Wood Poles)	3.05m (10')	Alluminous	ALP-WE10M	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm (Wood Poles)	3.66m (12')	Alluminous	ALP-WE12M	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Luminaire Arm (Wood Poles)	3.66m (12')	Alluminous	ALP-WE12M	Nedco Electric	https://www.nedco.ca/cnd/
Luminaire Arm **	Decorative Arm 1.82m (6') (Aluminum)	StressCrete	206A6336-7	StressCrete Group	http://www.scgrp.com/home

** Luminaire Arms decorative upgrade (Black Powder coating) can be requested as an upgrade

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Traffic Signal Heads

Item	Description	Make	Model No.	Supplier	Product Info
Traffic Signal Head	12” Sectional	Econolite		Econolite	https://www.econolite.ca/
Traffic Signal Head	12” Sectional	Fortran		Fortran Traffic	https://www.fortrantraffic.com/
Pedestrian Signal	2 Section LED Bi Modal with countdown	Econolite		Econolite	https://www.econolite.ca/
Pedestrian Signal	2 Section LED Bi Modal with countdown	Fortran		Fortran Traffic	https://www.fortrantraffic.com/
Traffic Signal Head Bracket	Versa-Brac Bracket Assembly	Sentinel	VSB-338	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Traffic Signal Head Bracket	Versa-Brac Bracket Assembly	Sentinel	VSB-346	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/
Traffic Signal Head Bracket	Versa-Brac Bracket Assembly	Sentinel	VSB-458	Sentinel Pole & Traffic Equipment Limited	http://sentineltraffic.com/

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Cabling

Item	Description	Make	Model No.	Supplier	Product Info
Traffic Signal Cable	14/4C Solid Copper Traffic Signal Cable (CSA C22.2 No. 239)	IMSA19.1	Niagara Region	Impulse Technologies	https://impulsetechnologies.com/
Traffic Signal Cable	14/7C Solid Copper Traffic Signal Cable (CSA C22.2 No. 239)	IMSA19.1	Niagara Region	Impulse Technologies	https://impulsetechnologies.com/
Traffic Signal Cable	14/11C Solid Copper Traffic Signal Cable (CSA C22.2 No. 239,)	IMSA19.1	Niagara Region	Impulse Technologies	https://impulsetechnologies.com/
Traffic Signal Cable	14/25C Solid Copper Traffic Signal Cable (CSA C22.2 No. 239)	IMSA19.1	Niagara Region	Impulse Technologies	https://impulsetechnologies.com/
Loop Lead Cable	16/2C(black/white) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		General Cable	https://generalcable.com/
Loop Lead Cable	16/2C (black/white) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Impulse Technologies	https://impulsetechnologies.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Loop Lead Cable	16/2C (black/white) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Sun Petra (2189058 Ontario Inc)	https://www.sunpetra.com/
Push Button Cable	16/2C (black/red) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		General Cable	https://generalcable.com/
Push Button Cable	16/2C (black/red) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Impulse Technologies	https://impulsetechnologies.com/
Push Button Cable	16/2C (black/red) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Sun Petra (2189058 Ontario Inc)	https://www.sunpetra.com/
Communication Cable	Fibre Optic Cable	GCC Optical Cable	SM-MIA-WB	Impulse Technologies	https://impulsetechnologies.com/
Fiber Optic Patch Panel	Outdoor rated patch panel	Gator Patch	Gator Patch-Length G320J006SNB-31-0	Impulse Technologies	https://impulsetechnologies.com/

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Detection, Cameras & Pre-Emption

Item	Description	Make	Model No.	Supplier	Product Info
Vehicle Detection – Multiple Approach	Video Vehicle Detection	MioVision	SmartView 360° Camera	Velociti Innovations	https://www.velociti-innovations.com/miovision-traffic-solutions/
Vehicle Detection – Single Approach, Front Fire	Video/Radar Hybrid Vehicle Detection	Iteris	Vantage Apex	CGI Road & Traffic	https://www.iteris.com/oursolutions/traffic-detection/vantage-apex
Vehicle Detection – Single Approach, Side Fire	Radar Detection	Wavetronix	SmartSensor Matrix	Fortran Traffic Systems Limited	https://www.wavetronix.com/intersection-efficiency-system
Vehicle Detection – Single Approach, Front Fire	Thermal Detection	FLIR	TrafiSense AI	Tacel	https://www.flir.com/products/trafisense-ai/?srsltid=AfmBOooJHXDG-uVlXX6yskOxzPEpPad9wcQ6nS4bhIi9JQo1rMVZyoyr
Network Camera	PTZ Camera	Axis Communications	Q6355-LE	Design Electronics, Turn Key Security Solutions Inc.	https://www.axis.com/products/axis-q6355-le
Vehicle Pre-Emption	Vehicle Unit	Emtrac	ST-9282-E-VEHKIT-NIA	Emtrac Canada	www.emtraccanada.ca
Vehicle Pre-Emption	Intersection Unit	Emtrac	ST-9281-INTKIT-NIA	Emtrac Canada	www.emtraccanada.ca

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Item	Description	Make	Model No.	Supplier	Product Info
Vehicle Pre-Emption	Interrogator	Emtrac	ST-9184-K	Emtrac Canada	www.emtraccanada.ca
Vehicle Pre-Emption	GPS/UHF Antenna	Emtrac	ST-9065-L25	Emtrac Canada	www.emtraccanada.ca

Flashers

Item	Description	Make	Model No.	Supplier	Product Info
Flashing Beacons	School Zone (Solar or AC)	RTC	AP22	Electromega	http://electromega.com/en/
Flashing Beacons	School Zone (Solar or AC)	RTC	AP22	Simrex	http://www.simrex.com/site/
Flashing Beacons	Solar 24hr	JSF	FL1412R/Y	Fortran Traffic	https://www.fortrantraffic.com/
Flashing Beacons	Solar School Crossing	JSF	SZ-1412-P	Fortran Traffic	https://www.fortrantraffic.com/
Rectangular Rapid Flashing Beacon (RRFB)	Pedestrian Activated Flashing Crosswalk Beacons	JSF Technologies	AB-9407 Series (100W Solar or AC)	Fortran Traffic Systems Limited	https://www.jsftechnologies.com/ab-series
Radar Speed Sign	Premium Speed Display Board	Kalitec	Evolis Vision – Premium	Kalitec Inc.	https://www.kalitec.com/en/product/radar-speed-sign/

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Illumination

Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.guillevin.com/eediv_electric_en/
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.guillevin.com/eediv_electric_en/
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.nedco.ca/cnd/

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Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.nedco.ca/cnd/
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.graybarcanada.com/
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-G2-R2M-UNV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-G2-R3M-UNV-DMG-FAWS-RCD7-GY3	Lumec	https://www.graybarcanada.com/

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Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W144LED4K-R-LE2-UNIV-RC-WB10-NP	Phillips	https://www.guillevin.com/eediv_electric_en/
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W144LED4K-R-LE2-UNIV-RC-WB10-NP	Phillips	https://www.nedco.ca/cnd/
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W144LED4K-R-LE2-UNIV-RC-WB10-NP	Phillips	https://www.graybarcanada.com/
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Evolve	ERL2-0-21-B5-40-A-GRAY-ILRV1 ERL2-0-21-C5-40-A-GRAY-ILRV1	GE	https://www.nedco.ca/cnd/
Wall Pack Illumination	LED Wallpack Luminaire 4000K	Ledvance		Sylvania	https://www.nedco.ca/cnd/
Crosswalk Lighting	Pedestrian Activated Crosswalk Lighting System	JSF Technologies	LumiWalk	Fortran Traffic Systems Limited	https://www.jsftechnologies.com/lumiwalk

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Traffic Signal & Illumination Appurtenances

Item	Description	Make	Model No.	Supplier	Product Info
Ground Rod	Copper clad 3m x 19mm			Guillevin	https://www.guillevin.com/eediv_electric_en/
Ground Rod	Copper clad 3m x 19mm			Nedco Electric	https://www.nedco.ca/cnd/
Ground Rod	Copper clad 3m x 19mm			Graybar	https://www.graybarcanada.com/
Ground Rod	Copper clad 3m x 19mm			Westburne	https://www.westburne.ca/cwr/
Pedestrian Push Button	BullDog III Series Vandal Resistant ADA Compliant	Polara	PBBDLM-Y	Tacel	https://tacel.ca/
Accessible Pedestrian Signal (APS) System	Signalized Intersection APS w/ Wave Feature	Polara	iNS2 2/3 Wire Opt "E" w/iDetect (Yellow)	Tacel	https://polara.com/ids-ins
Accessible Pedestrian Signal (APS) System	PXO Crossing APS - w/ Wave Feature	Polara	iDX APS Station with LED (9x12) Opt S Sign – Yellow	Tacel	https://polara.com/audible-information-devices/idx-inx-crosswalk-button-station
Traffic Signal Cabinet	Base Mounted	Econolite	MXXNAT 12/16PNL 16CH RCK (NR Spec)	Econolite	https://www.econolite.ca/

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Item	Description	Make	Model No.	Supplier	Product Info
Traffic Signal Cabinet	Pole Mounted	Econolite	G48NAT 8/16PNL TS2-1 2CH HW RC (NR Spec)	Econolite	https://www.econolite.ca/
Traffic Signal Controller	NEMA TS2	Econolite	Cobalt - 1000	Econolite	https://www.econolite.ca/
Malfunction Management Unit	MMU	Econolite	MMU2-16LEip	Econolite	https://www.econolite.ca/
Power Supply Cabinet	Supply Control Cabinet Type 1 120/240V, 100A, 1-Phase, 3-wire Stainless Steel	B & M	OPSD 2440.01M Type 1 (1PH, 3W)	B & M Manufacturing	http://www.bmgrp.ca/
Power Supply Cabinet	Supply Control Cabinet Type 3S 120/240V, 60A, 1-Phase, 3-wire Stainless Steel	B & M	OPSD 2440.01 Type 3S (1PH, 3W)	B & M Manufacturing	http://www.bmgrp.ca/
Combination Power Supply Cabinet	Overhead Combination Meter/Breaker Panel 100A 120/240V	Microelectric	C01-SD	Nedco Electric	https://www.nedco.ca/cnd/
Uninterruptible Power Supply (UPS) Battery	AlphaCell 195XTV Outdoor UPS Battery	Alpha	Alpha Cell 195 XTV	Tacel	https://www.alpha.com/products/item/alphacell-xtv

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Item	Description	Make	Model No.	Supplier	Product Info
Traffic Cabinet UPS	Alpha FXM 650 (includes UPS Kit, Alpha FXM HP650 48V w/ Batt Cable Assy and Universal Transfer & Generator Switch)	Alpha	Inverter CAUPH650A, Transfer Switch MXSRM19	Tacel	https://www.alpha.com/products/equipment/inside-plant-power/item/alpha-fxm-650
Traffic Cabinet UPS	Econolite UPS DBL 1000MXU (includes UPS DBL1000 MXU W/CHARGER # 36VDC and BYPASS SWITCH SINGLE PWR CABLE 8FT)	Econolite	Inverter Model: DBLMX1000U-4 8, Bypass model: HSU-1500	Econolite	https://www.econolite.ca/support-page/technical-documentation/cabinets-canada/dblmxu-48-series-double-conversion-ups-datasheet-ca/
Traffic Cabinet UPS	APC SecureUPS (includes - Inverter XU1K3LLXXR CC, APC UPS Transfer Switch XS30ALLXXR2 , and APC SCHNEIDER Smart-UPS 8FT BATTERY	APC	Inverter BBS002, Transfer Switch BYP003, Harness Set HAR008	Fortran	https://www.fortrantraffic.com/products/apc-secure-ups

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	HARNESS SET)				
Wireless Communication Radios	5.8GHZ Wideband Radio	Simrex	DM-WB	Simrex	http://www.simrex.com/site/
Ethernet Managed Switch	Managed Switch with power supply	Simrex	MS-5	Simrex	http://www.simrex.com/site/
Network Switch	Rugged Series industrial DIN rail switch	Cisco	IE-3300-8T2S, IE-3400-8P2S	ITEXPRESS DIRECT INC	https://www.cisco.com/site/us/en/products/networking/industrial-switches/catalyst-ie3400-rugged-series/index.html?ccid=cc002430&oid=powit024548&dtid=odicdc000509
GPS Time Sync Device	GPS Time Clock	Simrex	SimSync	Simrex	http://www.simrex.com/site/
Solar Powered Radio Repeater	Solar Powered Charge Unit	Simrex	Solar Repeater	Simrex	http://www.simrex.com/site/
Serial Radio	Serial Data Radio	Simrex	DataMoverSS	Simrex	http://www.simrex.com/site/
Spread Spectrum Transceiver	Status Indicator System	Simrex	DataMoverIO	Simrex	http://www.simrex.com/site/