

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

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## Roads

Item	Description	Make	Model No.	Supplier	Product Info
<b>Sidewalk Tactile Warning Plates</b>	Cast Iron Plates			Neenah Foundry	<a href="https://www.nfco.com/">https://www.nfco.com/</a>
<b>Sidewalk Tactile Warning Plates</b>	Cast Iron Plates			East Jordan Foundry	<a href="http://ejco.com">New East Jordan Foundry (ejco.com)</a>
<b>Sidewalk Tactile Warning Plates</b>	Cast Iron Plates			Cedar Infrastructure Products	<a href="http://cedarcip.com">Home   Cedar Infrastructure Products LP (cedarcip.com)</a>
<b>Sidewalk Tactile Warning Plates</b>	Cast Iron Plates			Kinesik Engineered Products Inc	<a href="#">Leading Accessibility Solutions Provider   Kinesik Products</a>
<b>Sidewalk Tactile Warning Plates</b>	Cast Iron Plates			Ontario Utility Castings Inc	<a href="http://oucastings.com">Quality Cast, Ductile and Aluminum Products   Ontario Utility Castings Inc (oucastings.com)</a>
<b>Cold Mix</b>	ProPatch			Innovative Surface Solutions	<a href="https://www.nfco.com/">https://www.nfco.com/</a>
<b>Permanent Asphalt Repair (PAR)</b>	Road Shouldering Coating	Ecoloc 555 Road and Shoulder		CRC Coatings – IMCO Technologies	<a href="http://crccoatings.com">Road Base &amp; Should Spray Coatings - Eco-Loc 555 - CRC Coating Technologies Inc. (crccoatings.com)</a>
<b>Manhole Frames and Grates – Self Adjustable</b>	Self Adjustable – for installation on roads with less than 10,000 AADT, and delayed top asphalt			Cedar Infrastructure Products	<a href="http://cedarcip.com">Home   Cedar Infrastructure Products LP (cedarcip.com)</a>

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Manhole Frames and Grates – Self Adjustable</b>	Self Adjustable – for installation on roads with less than 10,000 AADT, and delayed top asphalt			East Jordan Foundry	<a href="http://ejco.com">New East Jordan Foundry (ejco.com)</a>

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## Ducting

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

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## Junction Boxes

Item	Description	Make	Model No.	Supplier	Product Info
<b>Flared Junction Boxes (Underground Enclosure)</b>	33cm x 61cm x 46cm (13" x 24" x18") c/w lid, penta bolt	Hubble Power Systems	B12132418A	Guillevin	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>
<b>Flared Junction Boxes (Underground Enclosure)</b>	33cm x 61cm x 30cm (13" x 24" x12") c/w lid, penta bolt	Hubble Power Systems	B12132412A	Guillevin	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>
<b>Flared Junction Boxes (Underground Enclosure)</b>	33cm x 61cm x 46cm (13" x 24" x18") c/w lid, penta bolt	Hubble Power Systems		Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>

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## Pole and Anchor Assemblies

Item	Description	Make	Model No.	Supplier	Product Info
<b>Pole Foundation Anchor Assemblies</b>	Type 1 1cm x 19cm x 19cm (3/4" x 7 1/2" x 7 1/2")	National Concrete Accessories	DGR-2S-190	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 3 2cm x 23cm x 23cm (1" x 9" x 9")	PoleFab/AMG Metals	100000127	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 3 2cm x 23cm x 23cm (1" x 9" x 9")	National Concrete Accessories	DGR-2S-323	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 5 3cm x 28cm x 28cm (1 1/4" x 11" x 11")	PoleFab/AMG Metals	100000134	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 5 3cm x 28cm x 28cm (1 1/4" x 11" x 11")	National Concrete Accessories	DGR-2S-395	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 6 3cm x 32cm x 32cm (1 1/4 x 12 1/2" x 12 1/2")	National Concrete Accessories	DGR-2S-449	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 6 3cm x 32cm x 32cm (1 1/4 x 12 1/2" x 12 1/2")	PoleFab/AMG Metals	100005952	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Pole Foundation Anchor Assemblies</b>	Type 8 3cm x 42cm x 42cm (1 1/4 x 16 1/2" x 16 1/2")	National Concrete Accessories	DGR-2S-592	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Pole Plates</b>			4TR56-6TR81	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Pole Anchor</b>	190 BCD x 305 Depth		100000120	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Pole Anchor</b>	323 BCD x 457 Depth		100000127	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Pole Anchor</b>	323 BCD x 457 Depth SD -205 Rev. R-2		100000134	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>

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## Poles

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

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Signal and Illumination Pole *</b>	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 Metals	PF15C712B-H-IN- GA	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Signal and Illumination Pole *</b>	Type 6 - 5.42m Sectional Steel Pole 4/4-6 base mounted w/ 7" x 12" HH @ 24" w/ insert, galvanized	PoleFab/AMG Metals	PF6544C712B-H-IN- GA/AS	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Signal and Illumination Pole *</b>	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 Metals	PF16C712B-H-2P- IN-GA/AS	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Signal and Illumination Pole *</b>	Type 6 - 7.0M Sectional Steel Pole 3-6 direct burial w/ 4" x 6" HH galvanized	PoleFab/AMG Metals	PF36S46D-GA/AS	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>



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Item	Description	Make	Model No.	Supplier	Product Info
<b>Signal and Illumination Pole *</b>	Type 7 - 12.0M Sectional Steel Pole 1-7 direct bury w/ 7x12" HH twin galvanized	PoleFab/AMG Metals	PF17C712D-2P- GA/AS/	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Signal and Illumination Pole *</b>	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 Metals	PF08C712B-2.0- 35A-GA/AS	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>
<b>Illumination Pole</b>	Decorative Concrete Pole	StressCrete	206A6336-4	StressCrete Group	<a href="http://www.scgrp.com/home">http://www.scgrp.com/home</a>
<b>Illumination Pole</b>	Concrete Pole 12.2m (40')	StressCrete	NR-40BPR	StressCrete Group	<a href="http://www.scgrp.com/home">http://www.scgrp.com/home</a>
<b>Decorative Pole Base *</b>	Niagara Region Cast Aluminum Base Cover	PoleFab/AMG Metals	F055159	PoleFab/AMG Metals	<a href="http://polefab.com/">http://polefab.com/</a>

\* 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	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	1.22m (4')	Alluminous	TR4-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	1.82m (6')	Alluminous	TR6-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	1.82m (6')	Alluminous	TR6-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	2.44m (8')	Alluminous	TR8-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	2.44m (8')	Alluminous	TR8-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	3.05m (10')	Alluminous	TR10-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	3.05m (10')	Alluminous	TR10-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	3.66m (12')	Alluminous	TR12-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	3.66m (12')	Alluminous	TR12-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	4.57m (15')	Alluminous	TR15-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	4.57m (15')	Alluminous	TR15-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Signal Mast Arm **	5.48m (18')	Alluminous	TR18-SMA	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
Signal Mast Arm **	5.48m (18')	Alluminous	TR18-SMA	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>

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

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

\*\*Base mounted poles 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
<b>Traffic Signal Head</b>	12" Sectional	Econolite		Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Traffic Signal Head</b>	12" Sectional	Fortran		Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>
<b>Pedestrian Signal</b>	2 Section LED Bi Modal with countdown	Econolite		Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Pedestrian Signal</b>	2 Section LED Bi Modal with countdown	Fortran		Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>
<b>Traffic Signal Head Bracket</b>	Versa-Brac Bracket Assembly	Sentinel	VSB-338	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Traffic Signal Head Bracket</b>	Versa-Brac Bracket Assembly	Sentinel	VSB-346	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>
<b>Traffic Signal Head Bracket</b>	Versa-Brac Bracket Assembly	Sentinel	VSB-458	Sentinel Pole	<a href="http://sentineltraffic.com/">http://sentineltraffic.com/</a>

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## Cabling

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

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Loop Lead Cable</b>	16/2C (black/white) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
<b>Loop Lead Cable</b>	16/2C (black/white) grey PVC jacket	AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Sun Petra (2189058 Ontario Inc)	
<b>Push Button Cable</b>	16/2C (black/red) black PVC jacket	Beldon Type – AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		General Cable	<a href="https://generalcable.com/">https://generalcable.com/</a>
<b>Push Button Cable</b>	16/2C (black/red) black PVC jacket	Beldon Type – AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Impulse Technologies	<a href="https://impulsetechnologies.com/">https://impulsetechnologies.com/</a>
<b>Push Button Cable</b>	16/2C (black/red) black PVC jacket	Beldon Type – AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Push Button Cable</b>	16/2C (black/red) black PVC jacket	Beldon Type – AWM Style 2464 stranded tinned copper w/ foil shield & drain wire		Sun Petra (2189058 Ontario Inc)	
<b>Communication Cable</b>	Fibre Optic Cable	GCC Optical Cable	SM-MIA-WB	Impulse Technologies	<a href="https://impulsetechnologies.com/">https://impulsetechnologies.com/</a>
<b>Fiber Optic Patch Panel</b>	Outdoor rated patch panel	Gator Patch	Gator Patch-Length G320J006SNB-31-0	Impulse Technologies	<a href="https://impulsetechnologies.com/">https://impulsetechnologies.com/</a>



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## Detection, Cameras & Pre-Emption

Item	Description	Make	Model No.	Supplier	Product Info
<b>Video Vehicle Detection – Single Approach</b>	Video Detection	Econolite	Vision	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Video Vehicle Detection – Single Approach</b>	Video Detection	The Getgo	RZ-4 AWDR	Iteris	<a href="https://thegetgoinc.com/products">https://thegetgoinc.com/products</a>
<b>Video Vehicle Detection – Multiple Approach</b>	Video Detection	GridSmart	GS2 w/ SmartMount kit	Cubic	<a href="https://transportation.cubic.com/">https://transportation.cubic.com/</a>
<b>Video Vehicle Detection – Multiple Approach</b>	Video Detection	MioVision	MioVision Traffic Link	Stinson ITS	<a href="#">Intelligent Transportation Solutions   Stinson ITS</a>
<b>Radar Vehicle Detection – Single Approach</b>	Radar Detection	The Getgo	Vantage Radius	Iteris	<a href="https://thegetgoinc.com/products/vantage-radius">https://thegetgoinc.com/products/vantage-radius</a>
<b>Radar Vehicle Detection – Single Approach</b>	Radar Detection	Wavetronix	Matrix	Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>
<b>Traffic Camera</b>	PTZ MPEG4 encoder	Pelco	P2230L-EW1	Pelco	
<b>Vehicle Pre-Emption</b>	Vehicle Unit	Emtrac	ST-9282-E-VEHKIT-NIA	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Vehicle Pre-Emption</b>	Intersection Unit	Emtrac	ST-9281-INTKIT-NIA	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Vehicle Pre-Emption</b>	Interrogator	Emtrac	ST-9184-K	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
Vehicle Pre-Emption	GPS/UHF Antenna	Emtrac	ST-9065-L25	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>

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## Flashers

Item	Description	Make	Model No.	Supplier	Product Info
Flashing Beacons	School Zone (Solar or AC)	RTC	AP22	Electromega	<a href="http://electromega.com/en/">http://electromega.com/en/</a>
Flashing Beacons	School Zone (Solar or AC)	RTC	AP22	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>
Flashing Beacons	Solar 24hr	AVAILED Technologies Corp.	AV-240	Innovative Traffic Solutions	<a href="http://its-traffic.com/">http://its-traffic.com/</a>
Flashing Beacons	Solar 24hr	JSF	FL1412R/Y	Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>
Flashing Beacons	Solar School Crossing	JSF	SZ-1412-P	Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>
Pedestrian Crossover	PXO (AC or Solar)	JSF	AB9407/Polara XAVCU2-AV - AB9405/Polara XAVCU2-DC	Fortran Traffic	<a href="https://www.fortrantraffic.com/">https://www.fortrantraffic.com/</a>

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## Illumination

Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFM-160W48LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFM-160W48LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.graybarcanada.com/">https://www.graybarcanada.com/</a>
Luminaire	Large LED Cobrahead Fixture 4000K (grey shroud)	Roadfocus	RFL-215W96LED4K-T-R2M-UNIV-DMG-FAWS-RCD7-GY3 RFL-215W96LED4K-T-R3M-UNIV-DMG-FAWS-RCD7-GY3	Phillips	<a href="https://www.graybarcanada.com/">https://www.graybarcanada.com/</a>
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W96LED4K-G2-LE3-UNIV-DMG-API-BL-HS-SP2-PH8-GY3	Phillips	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W96LED4K-G2-LE3-UNIV-DMG-API-BL-HS-SP2-PH8-GY3	Phillips	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Roadview	RVM-160W96LED4K-G2-LE3-UNIV-DMG-API-BL-HS-SP2-PH8-GY3	Phillips	<a href="https://www.graybarcanada.com/">https://www.graybarcanada.com/</a>
Luminaire	Medium LED Cobrahead Fixture 4000K (grey shroud)	Evolve	ERL2-0-19-B3-40-A-GRAY-ILRV1 ERL2-0-19-C3-40-A-GRAY-ILRV1	G E	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Wall Pack Illumination	LED Wallpack Luminaire 4000K	Ledvance		Sylvania	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>

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## Traffic Signal & Illumination Appurtenances

Item	Description	Make	Model No.	Supplier	Product Info
Ground Rod	Copper clad 3m x 19mm			Guillevin	<a href="https://www.guillevin.com/eediv_electric_en/">https://www.guillevin.com/eediv_electric_en/</a>
Ground Rod	Copper clad 3m x 19mm			Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
Ground Rod	Copper clad 3m x 19mm			Graybar	<a href="https://www.graybarcanada.com/">https://www.graybarcanada.com/</a>
Ground Rod	Copper clad 3m x 19mm			Westburne	<a href="https://www.westburne.ca/cwr/">https://www.westburne.ca/cwr/</a>
Pedestrian Push Button	BullDog III Series Vandal Resistant ADA Compliant	Polara	PBBDLM-Y	Tacel	<a href="https://tacel.ca/">https://tacel.ca/</a>
Accessible Pedestrian Signal (APS) System	Audible and Vibrating Push Button	Polara	Navigator EN25BN0-Y-S02	Tacel	<a href="https://tacel.ca/">https://tacel.ca/</a>
Accessible Pedestrian Signal (APS) System	Audible and Vibrating Push Button	Econolite	Intellicross	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
Accessible Pedestrian Signal (APS) System	2 wire System	Polara	iNS2 APS Systems	Tacel	<a href="https://tacel.ca/">https://tacel.ca/</a>
Traffic Signal Cabinet	Base Mounted	Econolite	MXXNAT 12/16PNL 16CH RCK (NR Spec)	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>

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Item	Description	Make	Model No.	Supplier	Product Info
<b>Traffic Signal Cabinet</b>	Pole Mounted	Econolite	G48NAT 8/16PNL TS2-1 2CH HW RC (NR Spec)	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Traffic Signal Controller</b>	NEMA TS2	Econolite	Cobalt - 1000	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Malfunction Management Unit</b>	MMU	Econolite	MMU2-16LEip	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Power Supply Cabinet</b>	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	<a href="http://www.bmgrp.ca/">http://www.bmgrp.ca/</a>
<b>Power Supply Cabinet</b>	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	<a href="http://www.bmgrp.ca/">http://www.bmgrp.ca/</a>
<b>Combination Power Supply Cabinet</b>	Overhead Combination Meter/Breaker Panel 100A 120/240V	Microelectric	C01-SD	Nedco Electric	<a href="https://www.nedco.ca/cnd/">https://www.nedco.ca/cnd/</a>
<b>Uninterruptable Power Supply (UPS)</b>		Econolite	DBL 1000MX	Econolite	<a href="https://www.econolite.ca/">https://www.econolite.ca/</a>
<b>Wireless Communication Radios</b>	5.8GHZ Wideband Radio	Simrex	DM-WB	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>
<b>Ethernet Managed Switch</b>	Managed Switch with power supply	Simrex	MS-5	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>

Revised March 7, 2023



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Item	Description	Make	Model No.	Supplier	Product Info
<b>Ethernet Managed Switch</b>	Managed Switch	Cisco	IE 3300-8T2S-E	IT Yuda	<a href="https://ityuda.com/">https://ityuda.com/</a>
<b>Ethernet Managed Switch</b>	Managed Switch	Siemens	RX1400 RuggedCom	Innovative Traffic Solutions	<a href="http://its-traffic.com/">http://its-traffic.com/</a>
<b>GPS Time Sync Device</b>	GPS Time Clock	Simrex	SimSync	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>
<b>Solar Powered Radio Repeater</b>	Solar Powered Charge Unit	Simrex	Solar Repeater	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>
<b>Serial Radio</b>	Serial Data Radio	Simrex	DataMoverSS	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>
<b>Spread Spectrum Transceiver</b>	Status Indicator System	Simrex	DataMoverIO	Simrex	<a href="http://www.simrex.com/site/">http://www.simrex.com/site/</a>