

CITY OF SACRAMENTO • DEPARTMENT OF PUBLIC WORKS
**TRAFFIC SIGNAL AND STREET LIGHTING
PRODUCT QUALIFICATION PROCEDURES**

City of Sacramento - Qualified Products List

April 25, 2023 (List expires August 1, 2023)

Products shown in the list may be updated, added or deleted prior to expiration date without notice.

Please contact John Matoba at jmatoba@cityofsacramento.org for products to be tested and considered to be added to the Qualified Products List.

A. TRAFFIC SIGNAL CABINETS / CONTROLLERS

All traffic signal cabinets and controllers shall be supplied from the following approved manufacturers. All cabinets shall be furnished with controller, D4 software, Network Switch, Power Supply and all auxiliary equipment listed below. Cabinet shall be equipped with all components for an 8 vehicle phases, 4 pedestrian phases, and 4 overlaps. All components meet NEMA TS2 Type 1 standards.

Traffic Signal Cabinet Type R TS2 Type 1 and Controller TS2 Type 2

1. McCain TS2 Type 1 Cabinet M92150
2. McCain ATC EX2 Controller TS2 Type 2 (ABCD plugs)
3. Fourth Dimension D4 software
4. Network Switch Cisco IE-2000-8TC-G-B, PWR-IE50W-AC-IEC, GLC-LX-SM-RGD (qty 2)
5. Power Supply Surge Suppressor Tripp-lite ISOBAR6ULTRA – 6 outlet

Type R Cabinet Auxilliary Equipment to Include:
(16) Load Switches – EDI Model 510
(1) Solid State Flashers – EDI Model 810, Reno Model FL-200
(1) Malfunction Management Unit (MMU) - EDI MMU-16LE, Econolite MMU-16, or Reno MMU-1600G
(6) Bus Interface Unit (BIU) – EDI Model 700, Econolite BIU-64
(1) Power Supply – Econolite PS200 TS2, EDI Model MMU2-16LE, Reno TS-2
(8) Inductive Loop Detectors – Reno A&E Y/2-200
(x) Flasher Transfer Relay
(1) Network Switch – Cisco IE 2000 (See Network Switch in this QPL)
(1) Surge Suppressor (See Surge Suppressor in this QPL)

Traffic Signal Cabinet 332LS and Controller 2070LX

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1. Econolite Cabinet 332LS
2. Econolite Controller 2070LX
3. Fourth Dimension D4 Software
4. Network Switch Cisco IE-2000-8TC-G-B, PWR-IE50W-AC-IEC, GLC-LX-SM-RGD (qty 2)
5. Power Supply Surge Suppressor Tripp-lite ISOBAR12ULTRA – 12 outlet

Controller 2070LX – Controller shall be equipped with the following modules:
2070-1C CPU Module 2070-2E Field I/O Module 2070-LX Front Panel Display 2070-4A 10A Power Supply Linux Operating System with D4 Software Back cover plates Data Key (min 2 megabits)

332LS Auxiliary Equipment to Include:
(1) Conflict Monitor 2010ECLIP (12) Load Switches 200 (4) Flash Transfer Relays (1) Power Supply Model 206L (2) Flasher Units 204 (1) PDA #2LX (8) Inductive Loop Detector Cards Model 222 (3) DC Isolators 242 (1) LED Light Assembly (1) Surge Suppressor (See Surge Suppressor in this QPL) (1) set of anchor bolts (1) Network Switch per cabinet. (See Network Switch in this QPL) ID Tag: Manufacturer, Model #, Year Mfgr.

Network Switch

Network Switch	Cisco Network Switch and Accessories <ul style="list-style-type: none"> • Model: IE-2000-8TC-G-B • Power Supply: PWR-IE50W-AC-IEC • Small Form Factor Pluggable Module: GLC-LX-SM-RGD (qty 2) • 19" DIN Rail STK-RACK-DINRAIL (if applicable)
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Surge Suppressor

Tripp-Lite Power Supply	Surge Suppressor <ul style="list-style-type: none"> • Type R Cabinet: ISOBAR6ULTRA – 6 outlet • 332 Cabinet: ISOBAR12ULTRA – 12 outlet
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B. ELECTRICAL EQUIPMENT

CCTV

<p>AXIS</p>	<p>Camera and Accessories</p> <ul style="list-style-type: none"> • Camera: Axis Q6315-LE PTZ • Power Injector: Axis T8134 • Cat 6 Cable: Belden 7927A • Bracket: Pelco AB-3034 and AXIS T91B62 • Push Pull Connector: AXIS 39680
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GPS EV

<p>Global Traffic Technologies (GTT)</p>	<p>GPS Opticom Series–</p> <ul style="list-style-type: none"> • Phase Selector: Model 764 • Radio Unit: Model 3100 • Auxiliary Interface Panel: Model 768 • Card Rack with Power Supply: Model 760 • Intersection Cabling: Model 1070 • Mounting Hardware: Opticom
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Video Detection System

<p>Video Detection</p>	<p>Econolite – Full Intersection</p> <ul style="list-style-type: none"> • (4) Autoscope Vision (AVISION) Camera • (4) Econolite Mounting Brackets 28” • Econolite 3-wire cable • Autoscope Vision Comm Manager (AVCM) • SDLC Cable
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C. FIBER OPTIC

Fiber Strand

Description	Part Number	Manufacturer	Use
12 Strand	012ZU4-T4F22D20	Corning	Per Plan
12 Strand SST Drop (flat)	012EB4-14101A20	Corning	Per Plan
24 Strand	024ZU4-T4F22D20	Corning	Per Plan
48 Strand	048ZU4-T4F22D20	Corning	Per Plan
96 Strand	096EU4-T4700D20 or 096EU4-T4701D20	Corning	Per Plan
144 Strand	144EU4-T4701D20	Corning	Per Plan
288 Strand	288EU4-T4701D20	Corning	Per Plan

Fiber Patch Cable (OS2 Jumpers)

Description	Part Number	Manufacturer	Use
1m	040402G5120001M	Corning	OS2 Jumpers
2m	040402G5120002M	Corning	OS2 Jumpers

Tracer Tape

Description	Part Number	Manufacturer	Use
Detectable Muletape	DT1250P	Neptco DT1250P, Dura line WP12LC or equivalent	Tracer Tape

Fiber Patch Panel for In-Cabinet Use

Type R Cabinet			
Description	Part Number	Manufacturer	Description
Fiber Panel in R Cabinet	SPH-01P with 12 strand adapter LC panel and SMFO pigtail. SPH-CS-12-A9-P00RE	Corning	Fiber Panel for 12 count in SPH panel

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Fiber Patch Panel for In-Cabinet Use

332 Cabinets			
Description	Part Number	Manufacturer	Description
Fiber Panel in 332 Cabinet	CCH-01U (or CCH-04U patch panel (Rack Channel standoff bracket #12309-704)) with CCH-CS12-A9-P00RE splice cassette (standard density). CCH-CS24-A9-P00RE splice cassette (high density), if specified.	Corning	Fiber Panel for 12 count in CCH panel

Splice Case/Tray

Description	Part Number	Manufacturer	Description
Splice Case	8006877	Coyote	Dome Closure 6.5x22
Splice Tray	80805514	Coyote	Long Low-Profile for up to 96 strand
Splice Case	8006944	Coyote	Dome Closure 6.5x17
Splice Tray	80809958	Coyote	for up to 48 strand
Inline Runt	8006915	Coyote	In-Line Runt Closure
Splice Tray	80809958	Coyote	For up to 48 strand

D. TRAFFIC SIGNAL HARDWARE

Vehicle Signal Housing

Vehicle Signal Housing	McCain <ul style="list-style-type: none"> • Model: 12" Housing, Aluminum, Powder Coated Black, • Aluminum Signal Tunnel Visor • Backplate – Yellow Retroreflective 2" Border, Aluminum, louvered and painted black. • Retroreflective border shall be manufactured by 3M. Model 3990 Series Diamond Grade VIP Reflective sheeting.
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Pedestrian Signal Housing

Pedestrian Signal Housing	McCain <ul style="list-style-type: none"> • Model: 16" x 18" Housing, Aluminum, Powder Coated Black
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Light Emitting Diode (LED) Signal Modules

Display Modules	<ul style="list-style-type: none"> • 12" LED Modules for Traffic Signal Display with Clear Front Shell, Red Yellow Green, Arrow • LED Countdown for Pedestrian Display • Manufactured by Dialight, Leotek, Duralite, or EOI. No exceptions.
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Signal Framework

Framework	<ul style="list-style-type: none"> • Manufactured by McCain • Black • Bronze
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Accessible Pedestrian Signal (APS)

APS	Polara Engineering Inc. Model: Polara 2 Wire iDS23RB1-Y PPB w/iDetect <ul style="list-style-type: none"> • Control Unit: Polara iCCU-S2 for TS1, TS2 cabinets. • Control Unit: Polara iCCU-C2 Rack Mount Control Unit for 332 cabinet. • Interconnect Board for 332 or TS2 cabinet. • Size of Sign: 9x15. Option T, Use R10-3e for Pedestrian Displays with Countdown feature. • Housing Color: Yellow button cover. • Custom Messages: Special Voice Message for Wait to Cross Street Name and Walk Sign is On to cross Street Name. • Braille on faceplate. • SDLC for TS2 Type 1 cabinets. 850-217 (50 pin harness) for TS 1 cabinets. • Bi-directional arrow.
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E. LIGHTING

Post Top Luminaire

Luminaire	Acuitybrands Contempo LED Series 245L <ul style="list-style-type: none"> Model: 245L P45 AS 30K R3 RNA Style A (hood) P7 SH No photocell. 3000K. Type 3 Distribution.
Pole	Valmont <ul style="list-style-type: none"> Model: City of Sacramento Type "B" Series, 20' length, Galvanized, Anchor Bolt: 1" dia, 36" length, 4" hook, 9" bolt circle

Mastarm Streetlight Luminaire

Light Engine	<ul style="list-style-type: none"> EOI eLite Star SL3x-M LED Street light – model # ESU F A01 3M 032 40 M 700 (type 3 Distribution) - for general roadway lighting at 700ma. EOI eLite Star SL3x-M LED Street light – model # ESU F A01 3M 032 40 M 105 (type 3 Distribution) - for Traffic Signal Intersection lighting at 1050ma.
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Ornamental Streetlight

Light Engine	<ul style="list-style-type: none"> Model: CREE DPT A SB FR A 30K UL UF; or Model: VEGA Pris T3 D4A 40 30K
Globe	<ul style="list-style-type: none"> Model: Lexalite 424 Acrylic Prismatic Top
Pole	<ul style="list-style-type: none"> City of Sacramento Style 1, 12' length, Cast Iron Base, Steel Tapered Shaft, Cast Iron Capital, 3/4" x 30" anchor bolts (4) Model: Union Metal Corporation or 1254 Twelve Fifty Four Industries

F. COMMUNICATION HUB CABINET

Communication HUB Cabinet

344LX assembly and components shall conform to all requirements in the Caltrans Transportation Electrical Equipment Specifications (TEES).	
Safetran by Econolite	344LX; or
McCain Inc	344LX
Components:	(1) SPD (TEES A6-12) (1) SPDA (TEES A6-40) (1) LED Light Assembly (1) Surge Suppressor (See Surge Suppressor in this QPL) ID Tag: Manufacturer, Model #, Year Mfgr. Location Tag: Intersection of use.