



TOWN OF QUEEN CREEK
 Public Works Department
 Traffic Engineering Program
 22358 S. Ellsworth Road
 Queen Creek, Arizona 85242

TRAFFIC SIGNAL, ITS AND STREET LIGHTING APPROVED MATERIALS LIST

Revised Mar 2023

Item	Approved Manufacturer / Model
Cabinet and Controller Assembly	Econolite Cobalt \ TS2 Econolite Plug-n-Go Cabinet Assembly (per TOQC typ. configuration) <ul style="list-style-type: none"> • ADOT Type V, NEMA TS2, Type 1 • 16 load switch positions w/ 16 load switches provided (unless otherwise noted) • Exterior generator power input plug • Econolite SHA300-10 (31637P4) surge suppressor • Manual control handheld remote (“pickle switch”) with detachable headphone jack connection in police panel (per TOQC typ. configuration) • Battery backup – ZincBlue 2 with two 500W battery • EXCLUDE railroad pre-emption panel (unless otherwise noted)
Malfunction Management Unit	Eberle Design Inc. (EDI) MMU-16LEip SmartMonitor
Meter Pedestal	MYERS MEUG3A-2050 -M100-AZ (MOD) (or approved equal)
Video Detection	Autoscope Vision, Each intersection shall have (1) spare camera and mounting assembly
Emergency Vehicle Pre-emption	Tomar STROBECOM II – 4090-21-ST1IC-X series detectors, 4140 optical signal processor card with 4 channels, M913 detector cable (or approved equal)
Traffic Signal Poles (w/ anchor bolts), Signal Mast Arms, Luminaire Mast Arms	ADOT Standard Design (2013)
Vehicular and Pedestrian Traffic Signal Heads	Traffic Control Technologies, McCain Traffic Supply, 3M Corp., Eagle, Econolite, Peek Traffic Systems (aluminum only)
Traffic Signal Lamp	Dialight XL15-series LED (or approved equal)
Pedestrian Signals	Dialight X-series Uniform Appearance LED Countdown Signals (16x18), GE Lumination GT1 LED Countdown Signals (16x18), Excellence Opto. Inc. Countdown Signals (16x18) – all pedestrian modules shall meet the minimum ITE specification.

Pedestrian Push Buttons	Polara, Bull Dog – With Town logo etched into button Each intersections shall have (2) spare Push Buttons
Pedestrian Push Button Signs	Layout per ADOT Manual of Approved Signs, Code R10-3eAZ. Automatic Signal / Eagle Signal, McCain Traffic Supply, Pelco Products, Inc., Traffic Parts, Inc., Traffic Signal Hardware
Vehicular and Pedestrian Mounting Hardware	Econolite, McCain Traffic Supply Hardware, Automatic Signal / Eagle Signal, Pelco Products, Inc., Traffic Parts, Inc., Traffic Signal Hardware, Peek Traffic Systems, Inc.
Intersection Lighting Luminaires w/ Lamp	GE Evolve LED Roadway Scalable Cobrahead All luminaires shall have shorting caps installed.
Photo Electric Controls (w/ delay)	Fischer Pierce (or approved equal)
Pull Boxes, Vaults and Lids	ADOT No. 7 and smaller – Christy Fiberlite, Christy Fiberlite lid ADOT No. 9 – refer to engineering standard detail
Wire Marking Tape	3M Scotchkote Wire Marker Tape (or approved equal)
Wire Nuts (Silicone Filled)	IDEAL 451, 452 and 454 (or approved equal)
Conduit Warning Tape	Presco (or field-approved equivalent)
Illuminated Street Name Signs	Fluoresco Lighting & Signs, 8'-3/4"W x 30"H x 12"D cabinet (TOQC to approve <u>all layouts</u> prior to ordering)
Solar Powered School Flashers	Solar Traffic Controls (or approved equal) with wireless connection to nearest traffic signal control cabinet.
CCTV	Axis Q6075-E PTZ Dome Network Camera with smoked dome. Each intersections shall have (1) spare camera and mounting assembly - T91L61.
Wireless	Encom Wireless – COMMPAKBB58N2INT 5.8 GHz integrated wireless radio (300 Mbps) (A wireless radio system requires two radios or more)
Fiber Optic Splice Enclosure	Tyco Electronics 450 Fiber Optic Gel Splice Closure, or as required by the Town Traffic Engineering group.# 450-D6-6-NT-0-D6V Splice Tray Kit #FOSC-ACC-D-TRAY-72-KIT
Gator Patch	Fiber Connections #G620J012LNB-Y-Z 12 fiber Gator Patch ITS drop cable.

Ethernet switch

Ruggedcom (model# 6GK6092-0PS23-0CA0-Z-A05-B05-C05-D05) with four single mode, 1300nm, 25km SFP's (99-25-0101 = 1000LX SFP, Single mode, LC, 1310nm, 25 km). With External power supply Ruggedcom RPS 1300 and Din Rail mount (#6GK6000-8MS00-0AA0)

And (16) Cat5e (350 MHz) Blue Molded Patch Cables RJ45 (Male/Male) – 6ft. (4) LC to SC Singlemode Duplex jumper 2 meters long.

Geotextile inner duct

Maxcell 3"-3 cell detectable

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Notes:

1. The Town reserves the right to modify this list, to reject items included on the list, and/or to accept items not included on the list, at any time, without prior notice, if determined necessary in the best interests of the Town.
2. Products not covered by this list shall be submitted to the Town for review and approval prior to ordering.
3. Brand names listed may be registered trademarks of their respective manufacturers.