



ONE CITY. ONE JACKSONVILLE.

# City of Jacksonville, Florida

*Lenny Curry, Mayor*

Department of Public Works  
Traffic Engineering Division  
1007 Superior Street  
Jacksonville, FL 32254  
(904) 255-7533  
[www.coj.net](http://www.coj.net)

November 06, 2019

Peter Vega, P.E. - TSM&O Program Manager

Florida Department of Transportation

2198 Edison Avenue

Jacksonville, FL 32204

**Subject: City of Jacksonville, FL**

**Traffic Signal Equipment Preferences**

Dear Mr. Vega:

City of Jacksonville Traffic Engineering requests the following equipment requirements for all traffic signal contracts and installations from this date forward.

- (670-5-110/111) Trafficware group, wired cabinet assembly TS-2 Size 6 cabinets with Trafficware group, NEMA-Commander ATC traffic controller and associated equipment compatible with our Traffic Management Center's Trafficware ATMS.now central software. For locations in Jacksonville's central business district (Downtown) a McCain 170 unwired cabinet type 552 style cabinet shall be used with the installation of a Trafficware group, NEMA-170 controller unit.
- (685-1-11) UPS back-up systems (only at major intersections).
- (682-1-133) CCTV Bosch AUTODOME IP starlight 7000 HD, Model VG5-7230-EPC5. Compatible with the City of Jacksonville's Traffic Management Center's Bosch BVMS video management server. Non POE Installs, Install only via wired power supply.
- (684-1-1) Managed Field Ethernet Switch shall be ITS Express model 8040-Plus.
- (684-6-11) Wireless communication systems to be Ubiquiti Nano/Station (M5 5GHZ indoor/outdoor Airmax 16DBI CPE).
- (700-2-21/22) LED (Edge-Lit) Internally Illuminated Double-Sided street name signs (cantilever mount for strain pole design).
- (660-3-10) Locations which require overhead vehicle detection, Wavetrnix, Vehicle Detector - Microwave Model SS-225 SmartSensor Matrix shall be used for stop bar detection and SmartSensor Advanced



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SS-200 shall be used for advance detection, with Click 650 complete system.

- (660-4-10)Gridsmart, video detection system Bell Housing Camera complete system for Mast Arm structures, or Iteris, vehicle detector-video detection systems
- (660-6-122)TrafficCast Model BlueTOAD Spectra Compatible with the City of Jacksonville's Traffic Management Center's, TrafficCast BlueARGUS Server.
- (660-7-11/12)Wrong Way Vehicle Detection, Carmanah Model WW100 Solar or AC Powered Systems.
- (663-1-121/122)Global Traffic Technologies, Preemption System, Opticom Model 764 GPS & IR Phase Selector System
- (654-2-12) Rectangular Rapid Flashing Beacon Assembly, Carmanah Model R920-F
- Span wire designed intersections with two point attachment.
- Mast Arm assemblies to be galvanized finish.
- Pedestrian assemblies installed with transformer base and aluminum pole.
- All fiber installations and replacement shall be minimum 48 count single mode in each direction. Work on existing installations shall be single mode from cabinet to the next cabinet, "no" new or replacement multimode fiber shall be used. Any damaged single mode fiber shall be replaced with single mode fiber never multimode. Cabinet Ethernet switches shall be FDOT approved and utilize SFP GBIC's for single mode or multimode as needed for each location.

If I can be of further assistance, please call.

Regards,

Carlton Copeland

Traffic Signal Supervisor, ITS Manager

Traffic Engineering Division

City of Jacksonville, FL