

Motomesh Wireless Network

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David Stephens

Director, Technology Services

Mesh Network Overview

- This objective of this project is to implement a citywide wireless mesh network
- Allow mobile and remote connectivity for all city employees – both Public Safety and non-Public Safety
- Provide redundancy to existing land based network

Milestones

- 2007 – Deployed hotspots and mobility corridor
 - proof of concept
 - 21 devices
- 2008 – Installed along major arterials
 - Approximately 400 devices
- 2009 – Started in-fill of neighborhoods

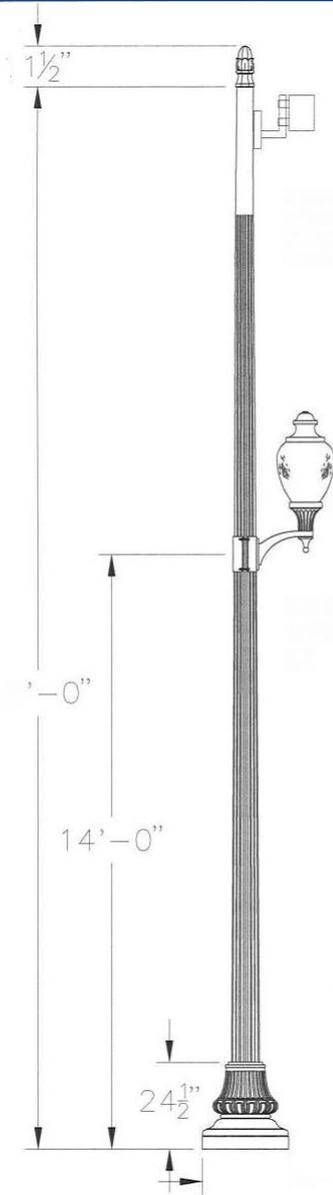
In-fill of Neighborhoods

- Utilized existing assets (light and utility poles) whenever possible
- Approximately 1000 devices deployed
- 174 devices have no useable assets
 - 32 in Coserv service area
 - 142 in Oncor service area

Coserv Poles

- Coserv has worked with City of Plano and designed an acceptable replacement pole
 - Consistent with existing assets
 - Maintains current height for light fixture
 - Provides adequate height for wireless devices

Pole Designs



Proposed Pole



Existing Pole

Oncor Poles

- City of Plano and Oncor have been in discussions for over 3 years about replacing/upgrading existing poles that were deemed unacceptable for housing wireless access device.
- Oncor Standards group has not approved any design that City of Plano has submitted.

Oncor Poles

- In 2009 Oncor suggested placing a separate pole next to existing light poles to minimize power requirements
- City of Plano designed poles to be installed to supplement existing assets
- Requires additional pole in certain areas

Options

- Do not install new poles & access points in Oncor service area
 - Lack of coverage in 6% of Plano
- Continue working with Oncor
 - Uncertain conclusion based on their Standards group opinions
- Install new City owned poles to provide complete coverage in Plano

Questions