



Downtown Charlotte Neutral-Host DAS Network

February 1, 2012



ATC OUTDOOR DAS

Downtown Charlotte DAS Overview

33 Nodes active

- › 16 Nodes on metal decorative street light poles
- › 15 Nodes on wooden utility poles
- › 2 Node on a new metal poles

8.82 miles of Fiber
(overhead and underground)

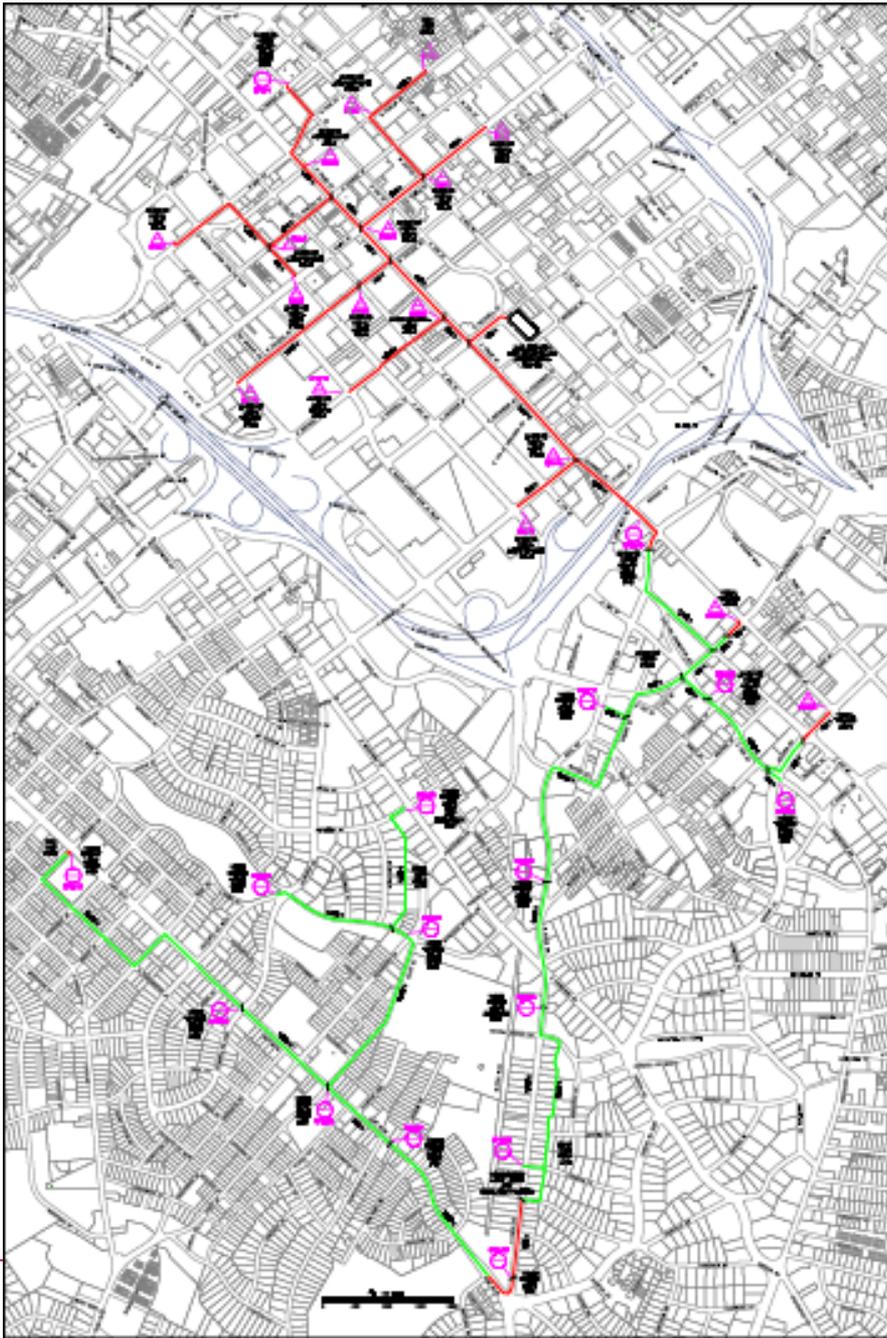
Hub at an existing electrical
substation within City limits



DAS Network Node and Fiber Map

LEGEND:

-  POLE
-  SPAN
-  LIGHT POLE NODE
-  WOOD POLE NODE
-  AERIAL PATHWAY
-  CONDUIT CONSTRUCTION REQUIRED
-  UNDERGROUND VERIZON LICENSE REQUIRED



Sample Node Installations - Downtown



Sample Node Installations – Historic and Overhead



Keys to Success in Downtown Charlotte ODAS

1. Strong, collaborative relationship with municipality

- › Process: Master Permit, Administrative Permit
- › Aesthetics
- › Node locations
- › Resident notification

2. Straightforward relationship with pole owner – poles, hub

3. Good design accepted by customer, municipality, and pole owner

- › Node equipment – antenna, control box, fiber placement
- › Matching node equipment to aesthetics of existing pole
- › Node locations

