

# Memorandum



CITY OF DALLAS

DATE November 2, 2018

TO Honorable Mayor and Members of the City Council

SUBJECT **Small Cell Deployment Update**

On October 22, 2018, staff provided the Mobility Solutions, Infrastructure and Sustainability (MSIS) Committee with an update of the small cell deployment within the City of Dallas. Small cell equipment is used to increase wireless coverage or network capacity within specific areas. Entities currently deploying small cell technology in Dallas include AT&T, Verizon, Crown Castle, Sprint, Extenet, and T-Mobile. Staff informed the MSIS Committee that as of September 30, 2018, utilizing a combination of Oncor utility poles and new stand-alone poles, 464 small cell locations had been approved across Dallas.

As part of the small cell deployment, staff also informed the MSIS Committee that a new “smart” light pole is being piloted for installation in 16 locations in the City. The “smart” light pole is a newly designed LED street light that encompasses small cell equipment within the pole. As a result of the equipment being within the pole, the base of the pole is wider (up to 18”) but tapers down to 8” around the 10’ mark (design and photo simulations attached). The “smart” light pole has been approved by the Landmark Commission for deployment in Historic Districts and staff is evaluating its use within residential areas.

After a number of questions about the “smart” light pole, the MSIS Committee requested the locations that the “smart” light pole would be deployed. In response to the Committee’s request, two maps of the pilot locations are attached.

Moving forward, staff is meeting with members of the MSIS Committee to discuss additional details regarding small cell deployment and plans to brief the MSIS Committee again in the next few months to provide updates of the “smart” light pole pilot. Staff will also update the Mayor and other Council Members in the coming weeks.

Should there be any questions or need for clarification, please let me know.

A handwritten signature in blue ink, appearing to read 'Majed A. Al-Ghafry'.

Majed A. Al-Ghafry, P.E.  
Assistant City Manager

[Attachments]

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c: T.C. Broadnax, City Manager  
Chris Caso, City Attorney (I)  
Carol A. Smith, City Auditor (I)  
Biliera Johnson, City Secretary  
Preston Robinson, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager

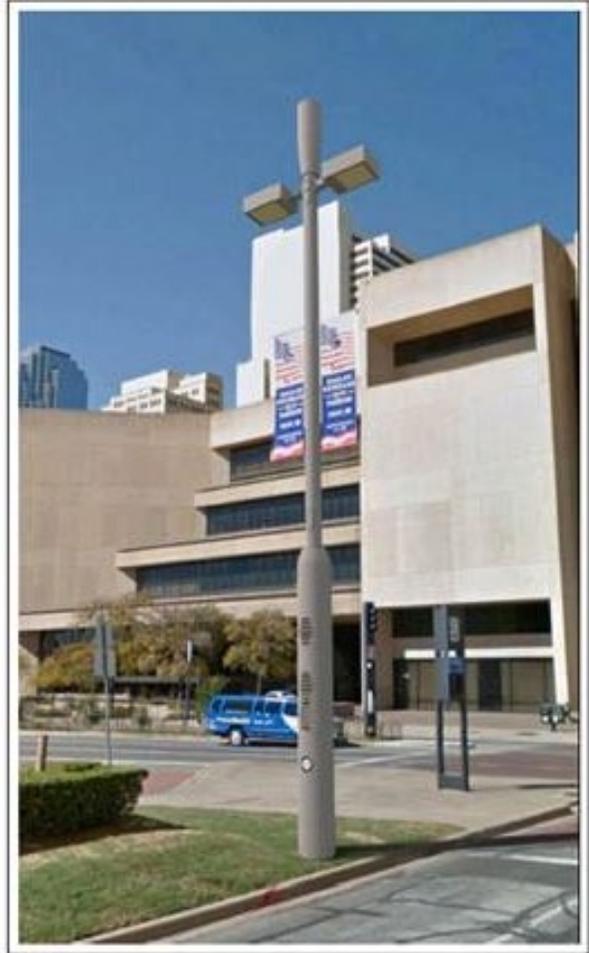
Jon Fortune, Assistant City Manager  
Joey Zapata, Assistant City Manager  
Nadia Chandler Hardy, Assistant City Manager and Chief Resilience Officer  
M. Elizabeth Reich, Chief Financial Officer  
Directors and Assistant Directors

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**“Smart” Light Pole Photo Simulations**



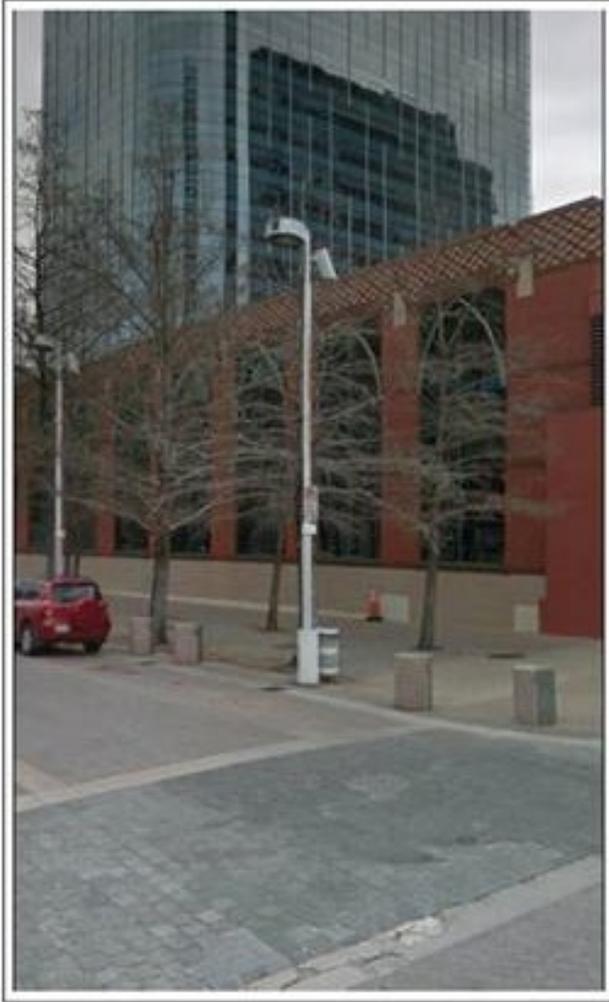
*EXISTING*



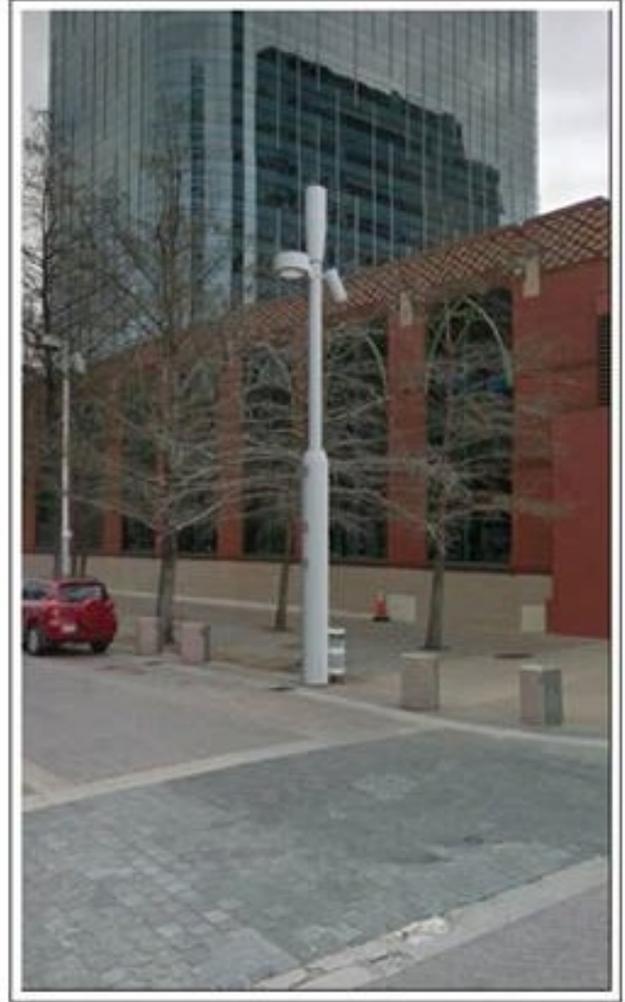
*PROPOSED*

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**“Smart” Light Pole Photo Simulations**



*EXISTING*



*PROPOSED*

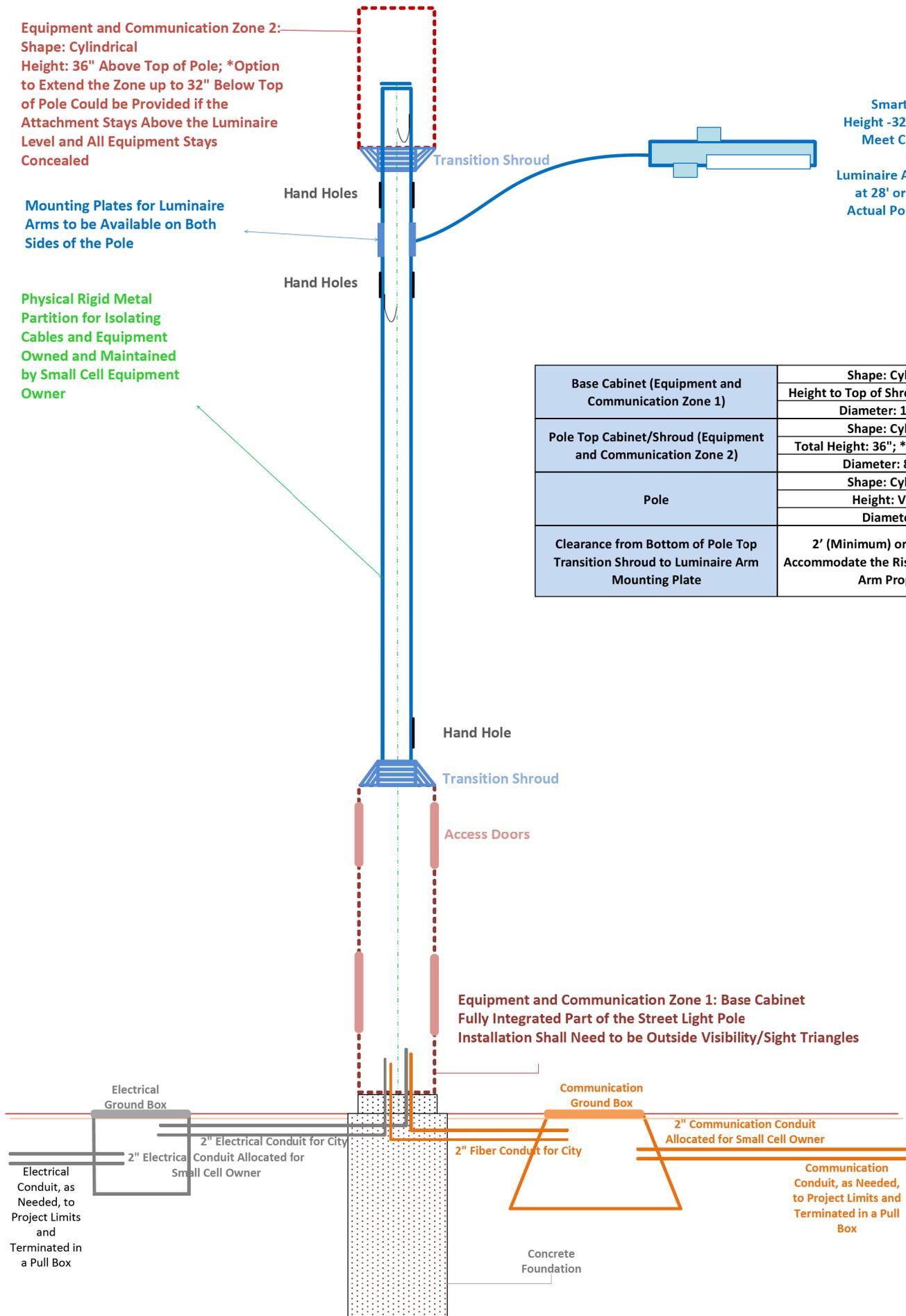
**Equipment and Communication Zone 2:**  
 Shape: Cylindrical  
 Height: 36" Above Top of Pole; \*Option to Extend the Zone up to 32" Below Top of Pole Could be Provided if the Attachment Stays Above the Luminaire Level and All Equipment Stays Concealed

Mounting Plates for Luminaire Arms to be Available on Both Sides of the Pole

Physical Rigid Metal Partition for Isolating Cables and Equipment Owned and Maintained by Small Cell Equipment Owner

**Smart LED Luminaire:**  
 Height -32.5' or Match Existing  
 Meet COD Specifications  
 Luminaire Arm(s) to be Mounted at 28' or to Match Existing.  
 Actual Pole Height is Variable

Base Cabinet (Equipment and Communication Zone 1)	Shape: Cylindrical
	Height to Top of Shroud : 108" to 144" Diameter: 14" to 18"
Pole Top Cabinet/Shroud (Equipment and Communication Zone 2)	Shape: Cylindrical
	Total Height: 36"; *Option up to 68" Diameter: 8" to 24"
Pole	Shape: Cylindrical
	Height: Variable Diameter: 8"
Clearance from Bottom of Pole Top Transition Shroud to Luminaire Arm Mounting Plate	2' (Minimum) or as Needed to Accommodate the Rise of the Luminaire Arm Proposed



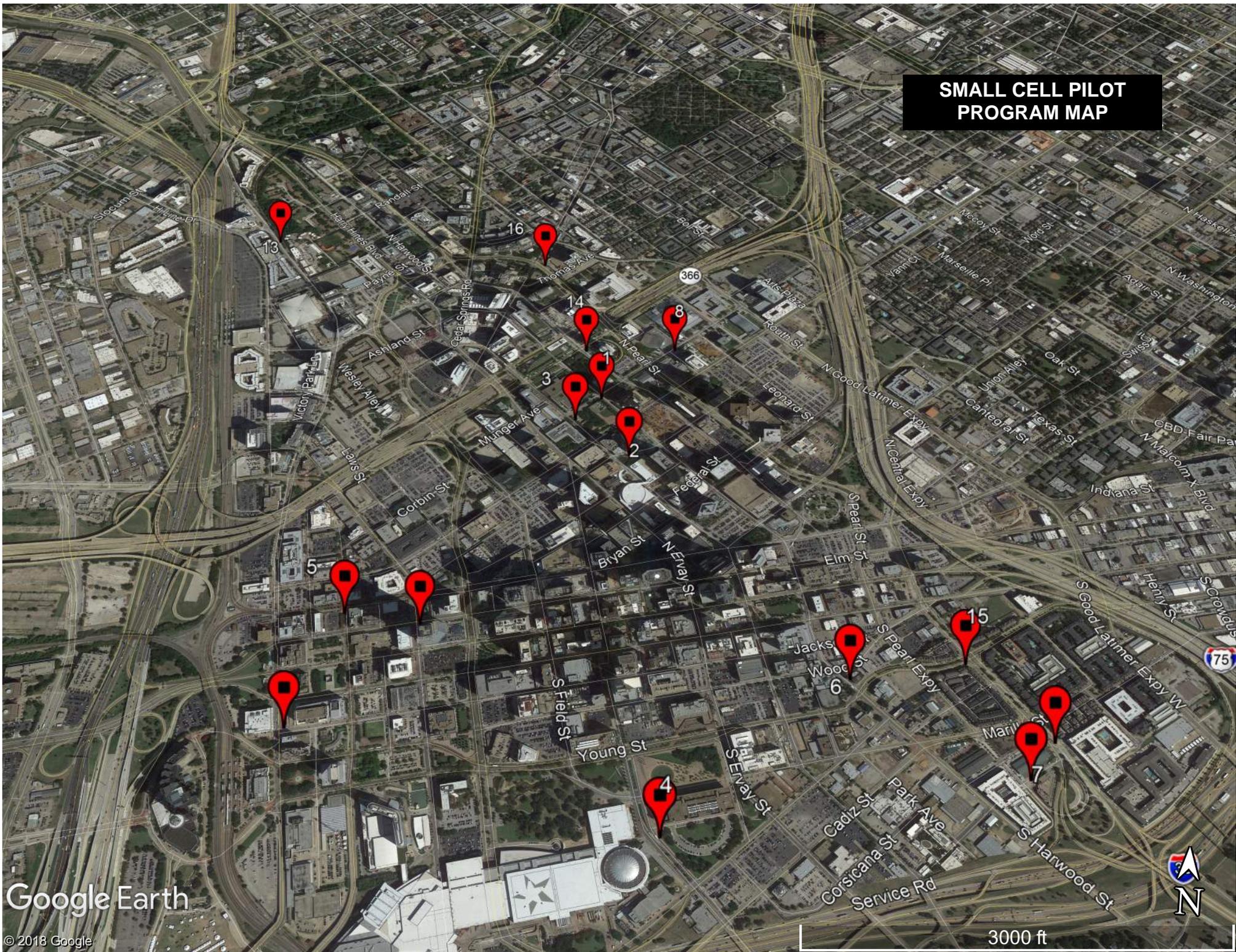
**Equipment and Communication Zone 1: Base Cabinet**  
 Fully Integrated Part of the Street Light Pole  
 Installation Shall Need to be Outside Visibility/Sight Triangles

Electrical Ground Box  
 2" Electrical Conduit for City  
 2" Electrical Conduit Allocated for Small Cell Owner  
 Electrical Conduit, as Needed, to Project Limits and Terminated in a Pull Box

Communication Ground Box  
 2" Communication Conduit Allocated for Small Cell Owner  
 2" Fiber Conduit for City  
 Communication Conduit, as Needed, to Project Limits and Terminated in a Pull Box

Concrete Foundation

# SMALL CELL PILOT PROGRAM MAP



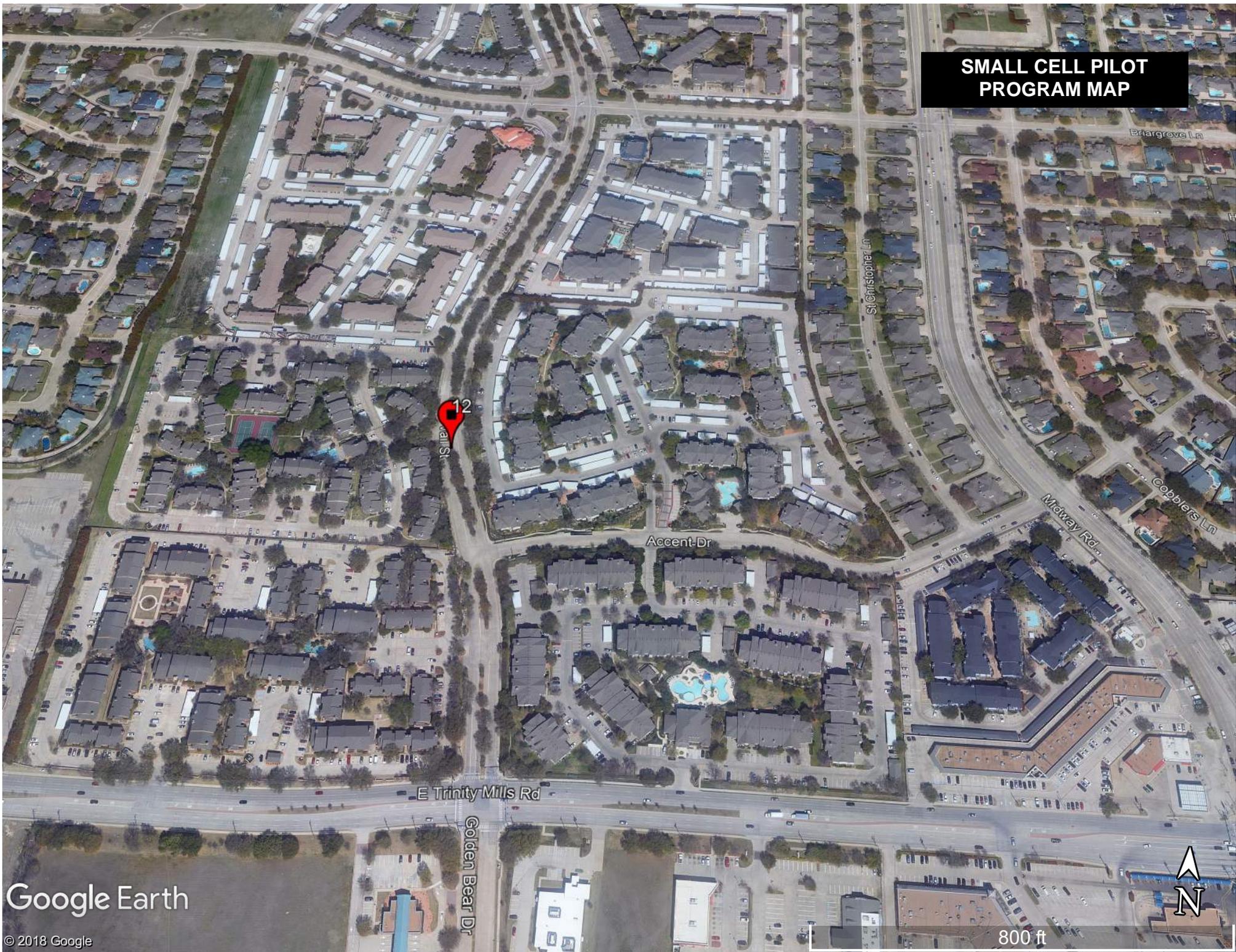
Google Earth

© 2018 Google

3000 ft



**SMALL CELL PILOT PROGRAM MAP**



Google Earth

© 2018 Google

800 ft

