

# EAGLE SUBSTATION

City Council

May 23, 2017

DENTON MUNICIPAL ELECTRIC



# Executive Summary

- Problem:
  - Growth and Aging Infrastructure
- DME has a responsibility to respond
- Public Involvement Process
  - Allows citizen feedback opportunity
- Consider all practical options

# CIP & Regulation - Review

In addition to DME's governance structure, the utility is regulated by these state and federal agencies. FERC, NERC, and TRE ensure compliance of utilities (such as DME) that own and operate transmission systems. ERCOT and the PUCT are responsible for the integrity of the state-wide power grid.

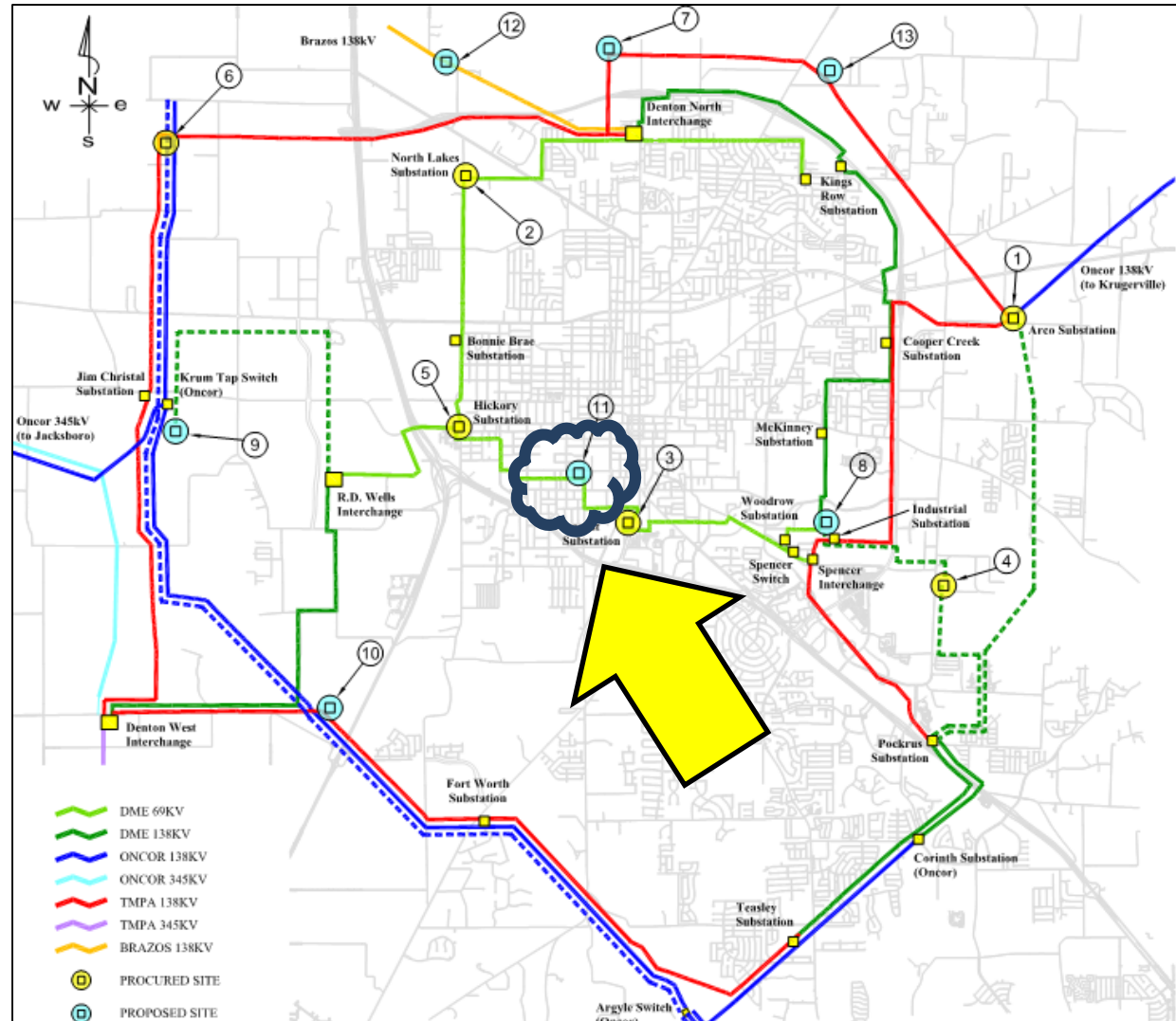
- FERC – Federal Energy Regulatory Commission
  - Requires DME to conduct the 715 study, which helps directs DME's efforts related to the reliability of its transmission system.
- NERC – North American Electric Reliability Corporation
  - Responsible for the enforcement of reliability standards set by FERC.
- TRE – Texas Reliability Entity
  - Has delegated authority from NERC to monitor compliance with reliability standards.
- PUCT – Public Utility Commission of Texas
  - Has the authority to review and approve rate of return for transmission projects.
- ERCOT – Electric Reliability Council of Texas
  - Manages the flow of electric power to 24 million Texas customers representing approximately 90% of the state's electric load and about 75% of the Texas land area

# Substation Spacing - Review

The FERC 715 study is a valuable tool for understanding Denton's needs related to transmission reliability. It helps determine the distance between substations along with other factors, including:

- Density of electric load within a service territory.
- Location of existing transmission lines.
- Areas where load growth is anticipated.
- Availability and cost of real estate.
- The preference of nearby residents.
- The preference of land owners.

# CIP Substations Map - Review



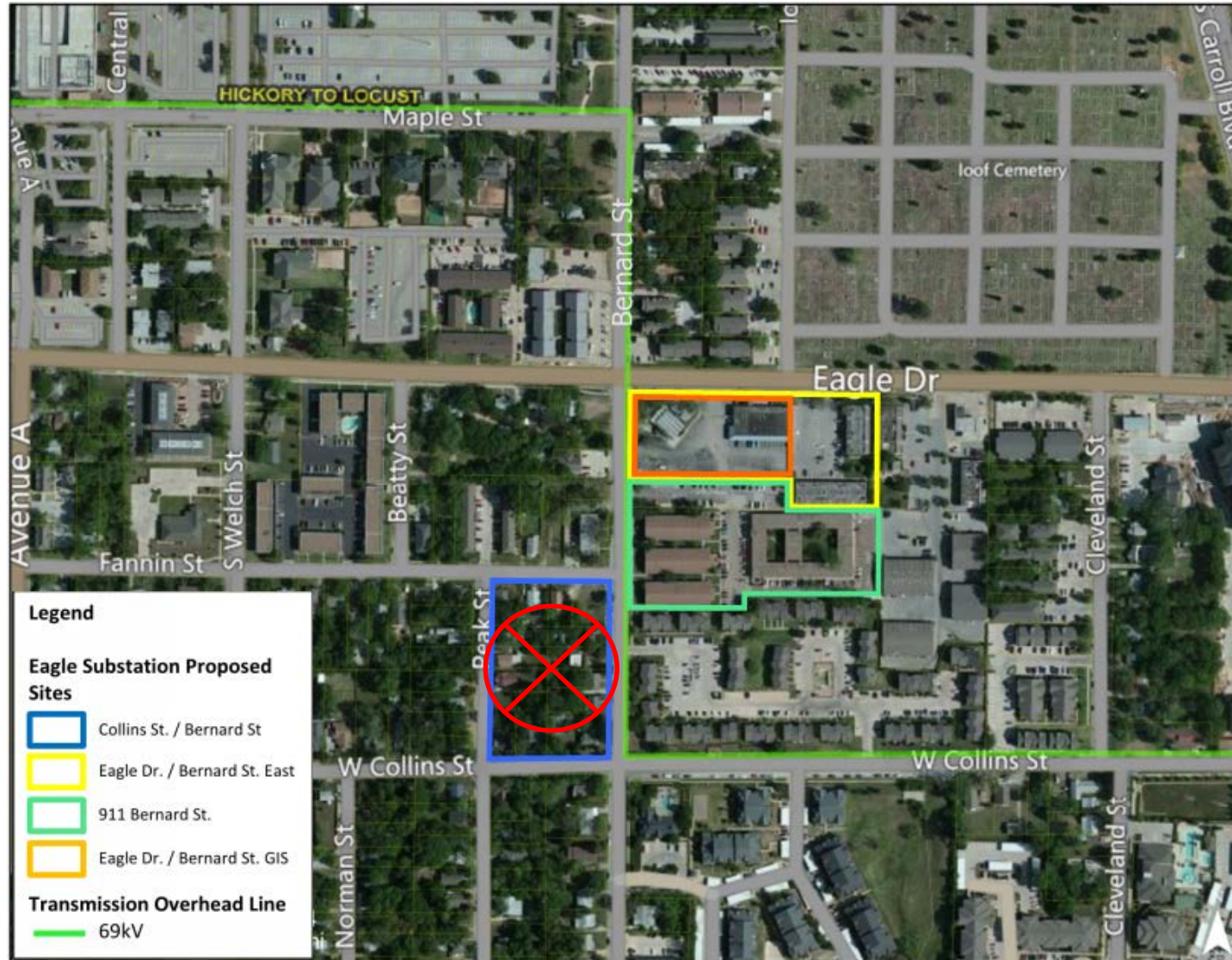


# Hickory to Locust Map – Review





# Site Options Map - Review

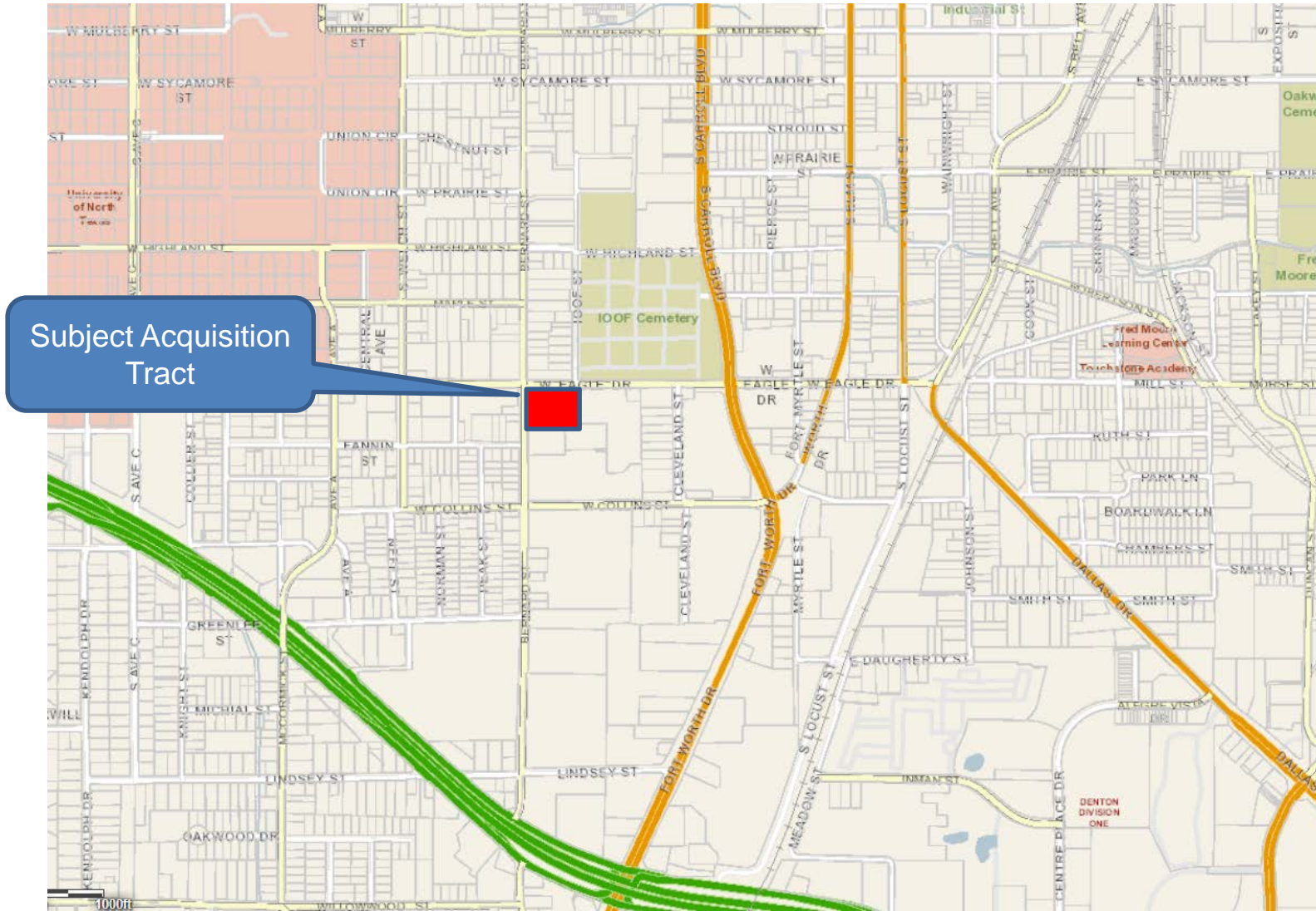


# History

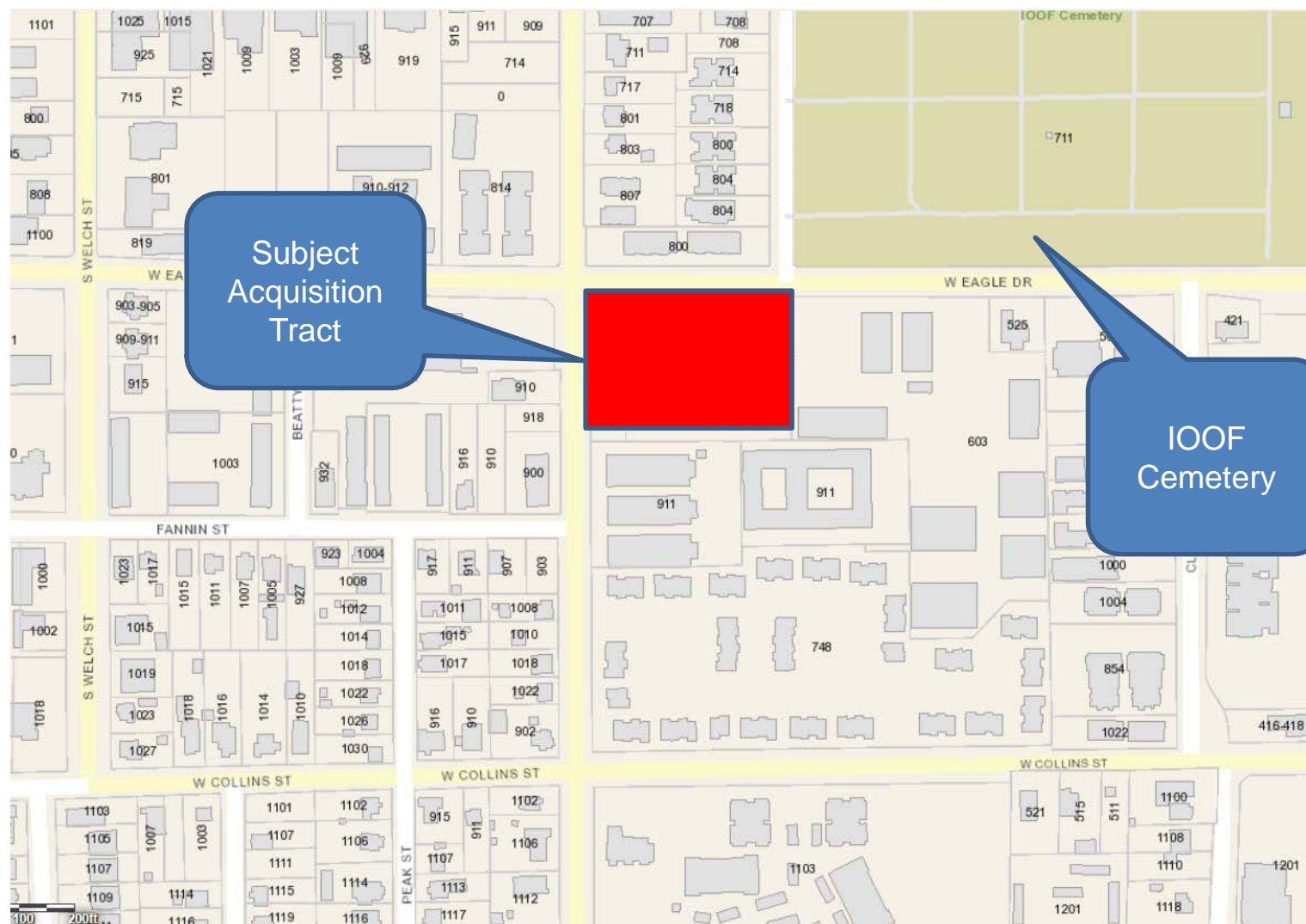
- 5/20/15 – Public Open House #1
- 7/23/15 – Public Open House #2
- 10/12/15 – PUB Public Hearing
- 10/20/15 – CC Public Hearing – Blue site was eliminated from options and DME was asked to pursue a site on UNT Campus
- 11/17/15 - CC directed DME to pursue Orange and Green sites
- 12/6/15-6/06/16 – DME met with UNT to determine campus site
- 7/11/16 – PUB closed session – selected Orange Site
- 7/19/16 – CC closed session – indicated support for Orange Site
- 8/23/16 – CC declared Orange Site as the substation site choice



# Location Map



# Site Map



## Exhibit A – Property Interests

### ***PROPERTY LOCATION, SIZE AND SHAPE***

- The subject is a 1.656 acre or 72,123 square-foot, near rectangular shaped tract of land located at the southeast corner of Eagle Drive & Bernard Street, or 801-811 Eagle Drive & 827 Bernard Street, Denton, Denton County, Texas.

### ***LEGAL DESCRIPTION***

- The subject is legally described as a 1.656 acre tract of land situated in the Alexander Hill Survey, Abstract No. 623, in the City of Denton, Denton County, Texas.



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