

Capital Improvement Project Old Town Undergrounding Phase III

June 29, 2006

*City of Alexandria
Department of Transportation
and Environmental Services*



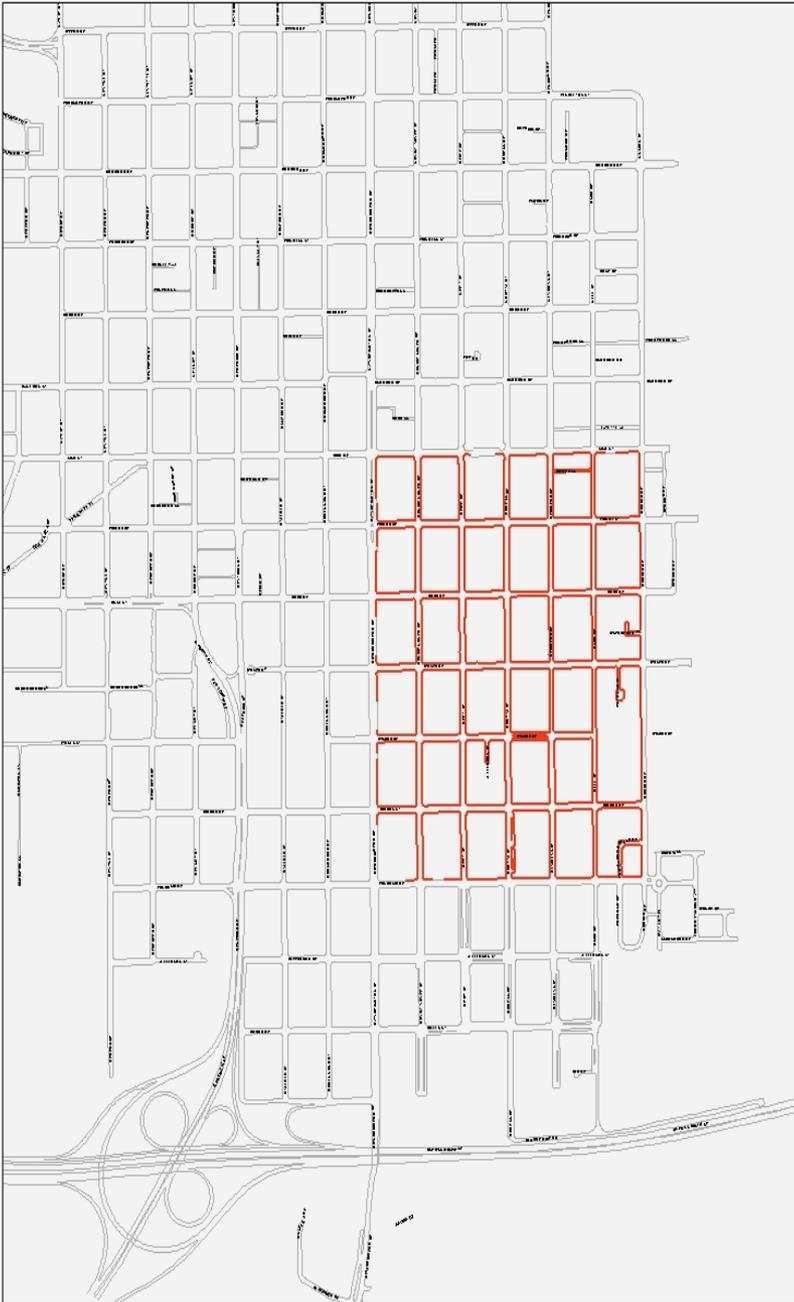
Presentation Outline

- ◆ Project background
- ◆ Design
- ◆ Construction



Project Background

- ◆ City Council approved 1992
- ◆ 36 square block area
- ◆ King, Union, Washington & Franklin streets
- ◆ 14 phases overall
- ◆ 2 phases complete



Scope of Design for Phase III

- ◆ Remove all existing overhead utilities for the following:
 - ◆ 200 & 300 S. Lee Street
 - ◆ 100 & 200 Duke Street
 - ◆ 100 Wolfe Street
- ◆ Remove 7 pole mounted transformers
- ◆ Install 5 pad mounted transformers
- ◆ Connect all electrical, phone and cable services to underground circuit
- ◆ Replace Cobra head street lights with colonial Gadsby lights



Design Challenges

◆ Pad Mounted Transformers

- ◆ Residential area
- ◆ No public open spaces
- ◆ Narrow sidewalks
- ◆ Trees and entry stoops
- ◆ Underground utility vaults not acceptable to Dominion VA Power for single phase transformers
- ◆ Private alleys used for off-street parking
- ◆ Heavily used on street public parking
- ◆ Utility company operation and maintenance accessibility



Design Challenges

- ◆ **Underground Utility Duct Banks**
 - ◆ Numerous underground water mains, gas mains and sewers within the public streets
 - ◆ Street trees within public sidewalks
 - ◆ Depth of utility duct banks: 4 – 10 feet



Design Details

- ◆ Utility duct banks located in the following streets:

- ◆ 200 & 300 S. Lee Street
- ◆ 100 & 200 Duke Street
- ◆ 100 Wolfe Street
- ◆ Potomac Court

- ◆ Smaller utility conduits located in the following streets:

- ◆ 300 Duke Street
- ◆ 300 S. Fairfax Street
- ◆ 200 & 300 S. Union Street



Design Details

- ◆ Colonial style City standard Gadsby lights
 - ◆ Approximately 170 feet spacing
 - ◆ Two – three lights per block face



Overall Construction Sequence

- ◆ City contractor installs underground duct banks, electrical service conduits and Gadsby lights
- ◆ Utilities install wiring in duct banks and conduits
- ◆ Utilities connect customers to new underground circuits
- ◆ Utilities remove overhead wires and poles

What to Expect During Construction

- ◆ Duct bank construction start: Fall 2006
- ◆ Duct bank construction duration: 9 months
- ◆ Work hours:
 - ◆ 7 am to 6 pm (Mon-Fri)
 - ◆ 9 am to 6 pm (Sat)
 - ◆ No work on Sun and Holidays
- ◆ Construction noise and dust
- ◆ Traffic control and street closures
- ◆ Parking restrictions
- ◆ Contractor to clean up work areas each day



Project Contact Information:

General Project Information:

Suzanne Salva

703-519-3400 ext 194

Construction:

Lucky Stokes

703-838-4324

Thank You!

*City of Alexandria
Department of Transportation
and Environmental Services*

