



Sunshine City Electric Bus Project Federal Low or No Emission Grant Application

Legislative Committee
November 17, 2015

Pinellas Suncoast Transit Authority (PSTA)
St. Petersburg, Florida



Summary of Fed LoNo Program

To deploy the cleanest and most energy efficient U.S.-made transit buses that have been largely proven in testing and demonstrations but are not yet widely deployed in transit fleets.

Eligible Project Elements:

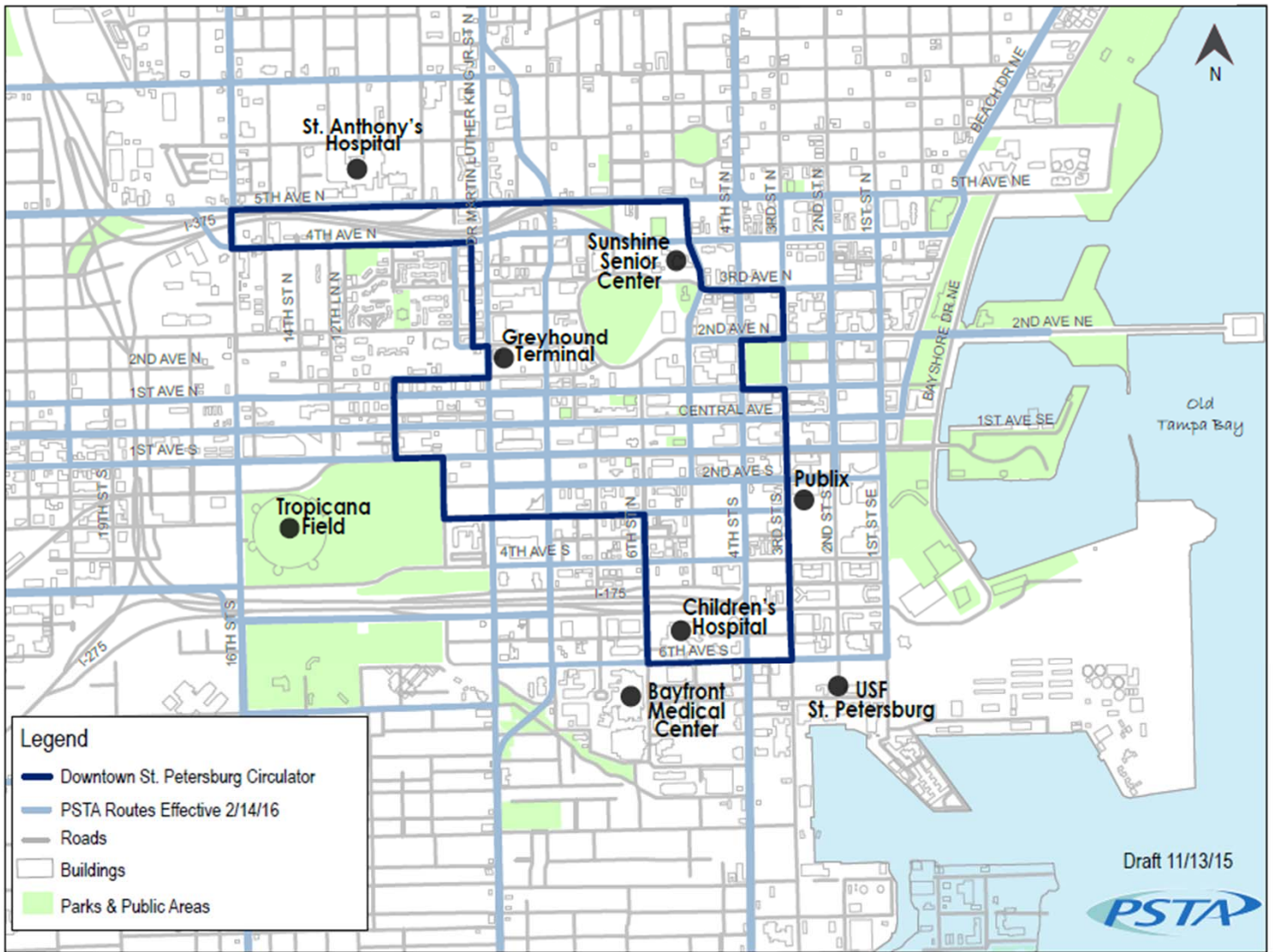
- Acquiring new low or no emission buses
- Constructing or leasing new facilities and equipment
- Improving existing facilities to accommodate LoNo buses
- Project should deploy at least 5 new buses

Funding and Grantee Eligibility

- \$22.5M available nationwide under competitive grant
- Non-attainment or maintenance areas
- Over 200,000 in population
- Federal amount awarded cannot exceed 85% of the total transit bus cost:
 - Fed match of 90% for equipment and facilities (charging stations).
 - Credit for “overmatch” more than 15% local match.

Project Proposal- Part A

- Improvements to downtown St. Petersburg Circulator
 - Pilot Route for Quick-charge buses
 - High density, mixed land uses
 - Connects neighborhoods and senior centers to medical facilities, sporting events, cultural centers, parks and recreation
 - Five 35' Quick Charging Electric Buses
 - Downtown fast charging station.

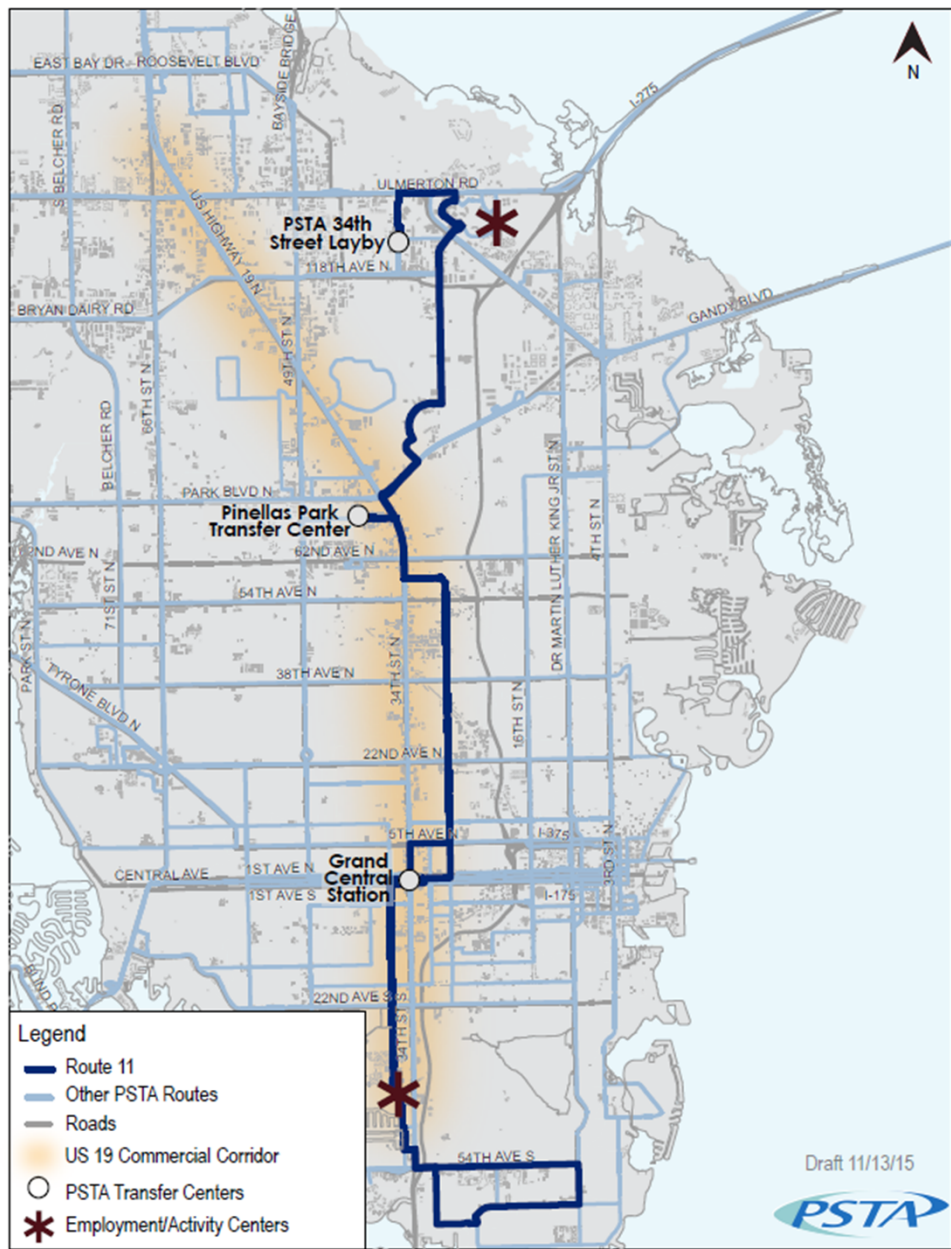


0 0.25 0.5 Miles



Project Proposal Part B

- Route 11 (28th Street)
 - Pilot route for extended range buses
 - Connects low income communities to PSTA transfer centers and Carillon employment center
 - Four 40' Electric buses
 - Overnight in-depot charging stations
 - One fast charging station at PSTA Headquarters (Lay-By) – allows for easy system expansion.
 - DOT Priority “Ladders of Opportunity” represented.
 - Shows scalability and commitment to LoNo technology.



Recommended Charging Options

- **Two Fast Charging Stations**
 - Located in Downtown St. Petersburg and PSTA Lay-By
 - Allows for en-route charging and end of day quick charge at main facility
- **Five Facility (slow charging) stations**
 - One for Maintenance for any part of fleet
 - Four for overnight charging Extended Range battery buses

Partnerships

- **Center for Transportation and the Environment (CTE)**
 - Proposal guidance
 - Project management
 - Affiliations with FTA, DOT, and DOE
 - Partner for many previous LoNo grant awardees
- **Proterra (Electric Bus Manufacturer)**
 - Supplies buses, equipment, and marketing materials
- *Future: Duke Energy?*

Local Support Letter Requests

- City of St. Petersburg
- Congressman David Jolly
- Congresswoman Kathy Castor
- Pinellas County Commission
- Pinellas County MPO
- St. Petersburg Chamber of Commerce
- Senator Bill Nelson
- Senator Marco Rubio
- Sierra Club

Proposal Strengths

- Using both fast charge and extended range technologies in Florida operating environment
- Request for only incremental cost of the electric bus over diesel plus charging stations (substantial “over-match”)
- Type of service:
 - Downtown Circulator
 - Route 11

Both provide access to jobs and opportunity for low income areas matching DOT priority.

Summary

Electric Buses

- Four 40' Extended Range Buses
- Five 35' Fast Charge Buses

Charging Stations

- Two On Route Chargers
- On Route Architecture/Engineering Services
- On Route Construction Services
- Four Depot Chargers
- Depot Installation

Project Management

- Project Management Consulting & Technical Assistance (CTE)

Total Cost: \$9,525,000 **PSTA Match: \$4,650,000** (500,000 x 9 buses + 150,000 facilities)

