US-1 Express

MIAMI-DADE EXPRESSWAY AUTHORITY

Citizens Transportation Advisory Committee
Aviation Subcommittee

June 10, 2009

Introduction of Concept

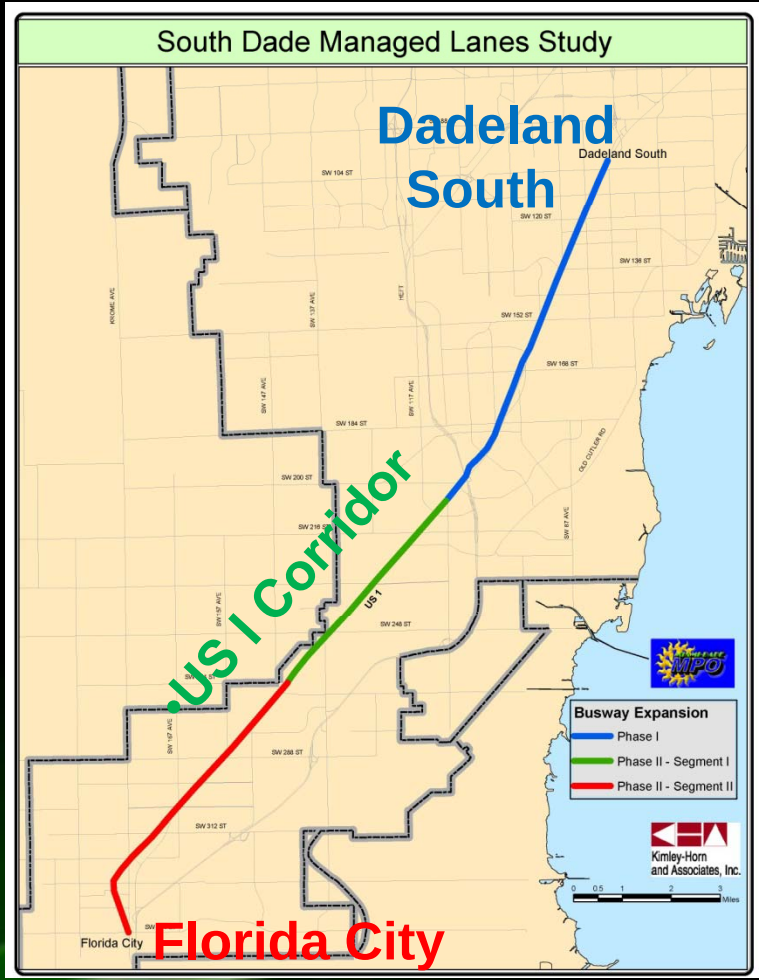
- MDX, MPO and MDT recognized a need and an opportunity
  - Improve transit service and safety operations on the South Dade Busway
  - Improve efficiency of existing excess roadway capacity and existing right of way
  - Mitigate congestion on the US-1 Corridor
  - Provide funding for future rapid transit

Introduction of Concept

- Feasibility Study was commissioned by the MPO
  - Determine if reasonable alternatives exist for managed lanes along South Dade Busway
  - Evaluate revenue generating potential for transit along South Dade Corridor
  - Basis – MPO/MDT South Link Alternative Analysis (2006)

Introduction of Concept

- Limits
  - Would extend from SW 304 Street
    - Allows residential areas in Homestead access
  - To Dadeland South Metrorail Station
- Distance
  - 16.7 miles



What does the project consist of?

- Using available capacity of the South Dade Busway to incorporate managed lanes
  - Manage demand by variable toll pricing
    - Private vehicles using the busway lanes would pay a toll / buses would travel free
  - Provide free flow option
  - Provide linkage to expressway
  - Preserve envelope for future premium transit

How does it work?

- Alternative 1 (2-lane at-grade)
  - Transit Signal Priority improvements and no grade separations at any intersections
- Alternative 2 (4-lane with grade separations at major intersections)
  - Approximately 6-8 elevated intersections to separate local traffic from bus and managed lanes traffic
- Alternative 3 (4-lane fully elevated facility)
  - Approximately 22 elevated stations
  - Most costly alternative but precursor of premium transit
- Alternative 4 (2-lane with grade separations)
- Other alternatives to be evaluated during PD&E

Probable Scenario

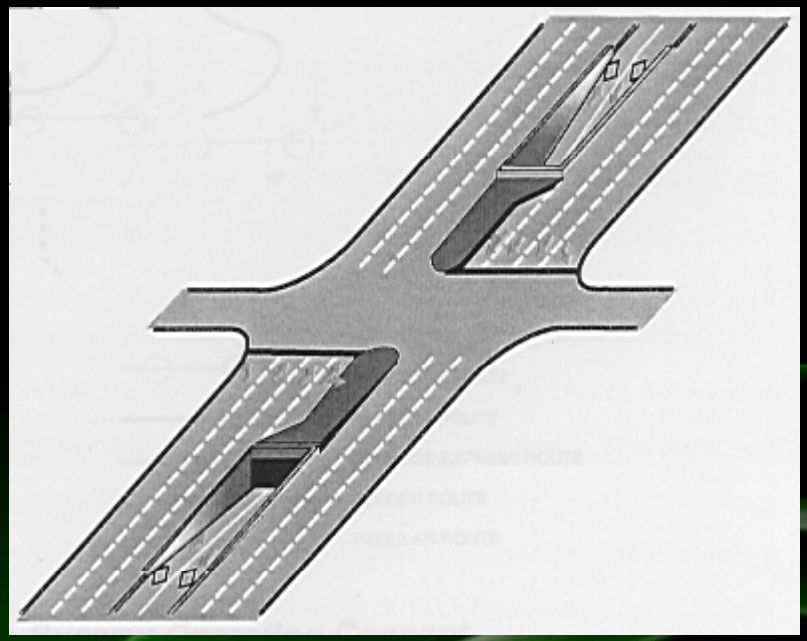
- Provide grade separations at major intersections
  - Improve transit express service
    - Express buses would not need to stop at major intersections improving service and timing
  - Eliminate unsafe conditions at major intersections
    - Major problem that exists today is the conflict of the bus corridor with the intersecting traffic at major intersections.
    - Grade separations would eliminate this conflict

Probable Scenario

- Grade separations at major intersections

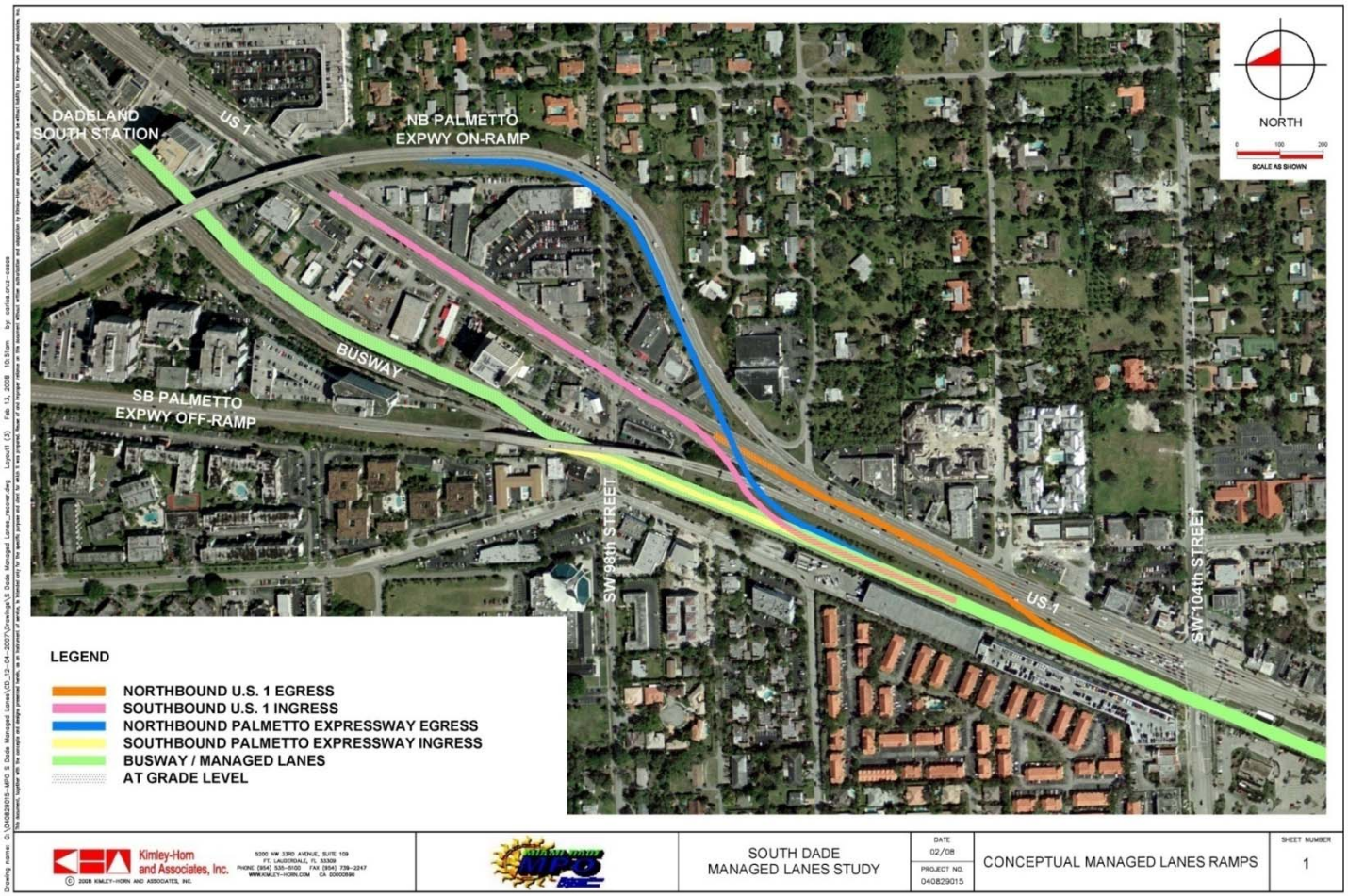
Probable Scenario

- Grade separations at major intersections



Potential Grade Separations

Potential Connection to Palmetto



Benefits

- Improves transit service travel time by approximately 35%
  - Provide a direct, faster and safer express transit service
  - Increase bus service capacity (more frecuency)
- Maximize safety issues at intersections
  - Eliminate conflicts at major intersections with grade separations

Benefits

- Increase US-1 corridor capacity (20-50%)
  - Reduces congestion along US-1 by approximately 10%
- Provide a free flow alternative/express service alternative
- Assist in the future funding of rapid transit service

Support for MDX Vision Projects

- Resolution from CTAC
  - Follow up on specific projects
- Resolution from FTAC
- Resolution from MDX Blue Ribbon Committee

Support

- Resolution from Village of Pinecrest
- Resolution from City of Palmetto Bay
- Resolution from Chamber South
- Outreach to other municipalities
  - City of South Miami
  - City of Cutler Bay
  - Florida City
  - Homestead

Issues to be Addressed

- MDT and MDX coordination with Federal agencies FTA and FHWA
  - Approval of concepts to enhance transit service and capacity along the South Dade Busway
- Coordination with Miami-Dade Transit and other Miami-Dade County agencies
- Public Involvement and support

Recommendations and Next Steps

- MDX will be implementing agency
- MDX requests inclusion of the PD&E in the 2030 MPO Long Range Plan
- Coordinate and negotiate with MDT on facility and revenue considerations
- Work with MDT in coordination with FHWA and FTA for approvals of concept to enhance transit service and capacity along the South Dade Busway

Please visit our website

www.mdxway.com

MDX®

MIAMI-DADE EXPRESSWAY AUTHORITY