



# SR 90/SW 8<sup>th</sup> Street at SR 973/SW 87<sup>th</sup> Avenue Project Development and Environment Study

**PUBLIC KICK-OFF MEETING**

April 16, 2015

Financial Management No.: 433627-1-22-01

Efficient Transportation Decision Making No.: 9892





## Project Location Map

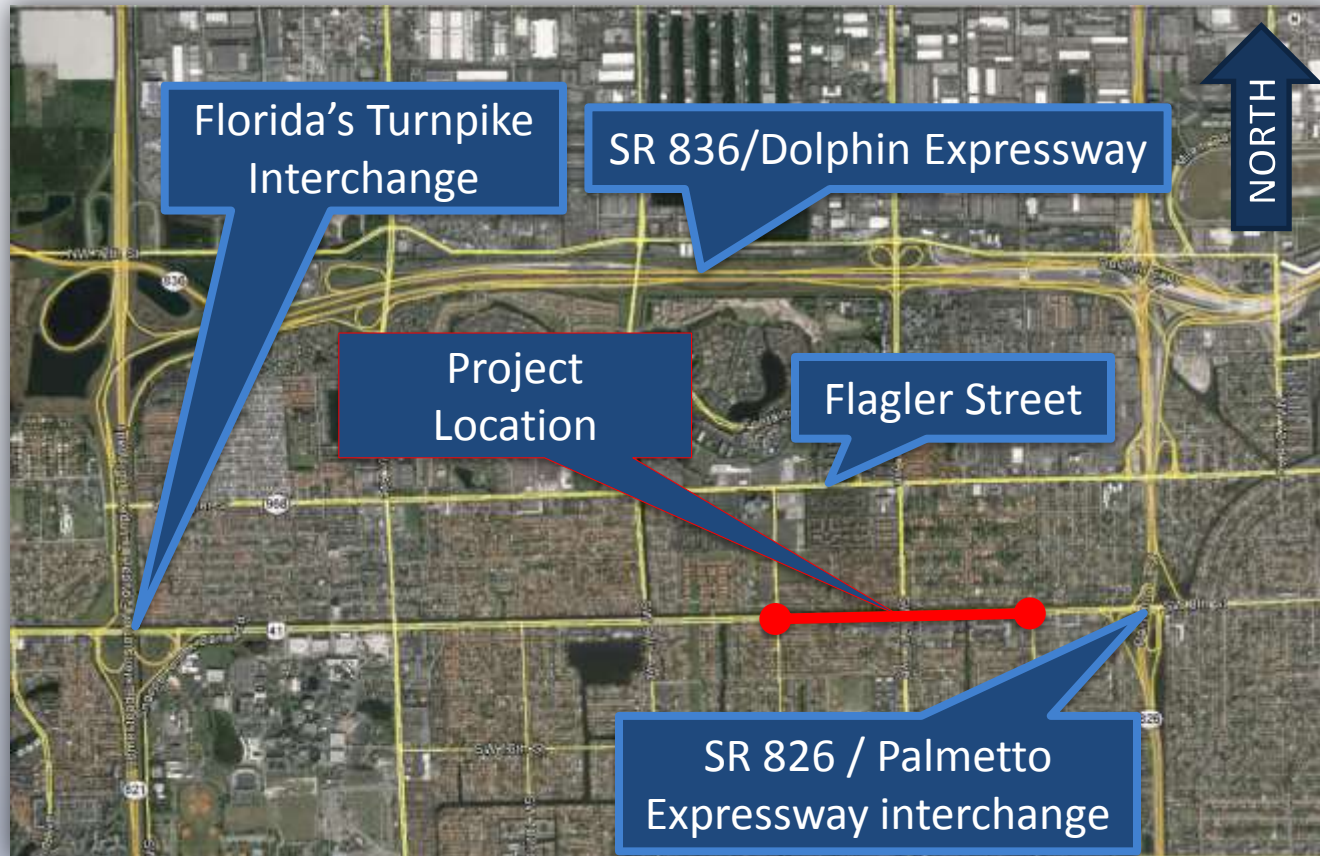


- SR 90 Roadway also called:
  - SW 8<sup>th</sup> Street
  - US 41
  - Tamiami Trail
- Study Focus at SR 973 / SW 87<sup>th</sup> Ave.
- Study Area is from SW 92<sup>nd</sup> Ave. to SW 82<sup>nd</sup> Ave.





## Regional Roadway Network



SR 90 is a major east-west roadway that connects to:

- Florida's Turnpike
- SR 826 / Palmetto Expressway

Other East/West roadways:

- SR 836/ Dolphin Expressway
- Flagler Street
- Coral Way



# Purpose & Need Statement

## PURPOSE

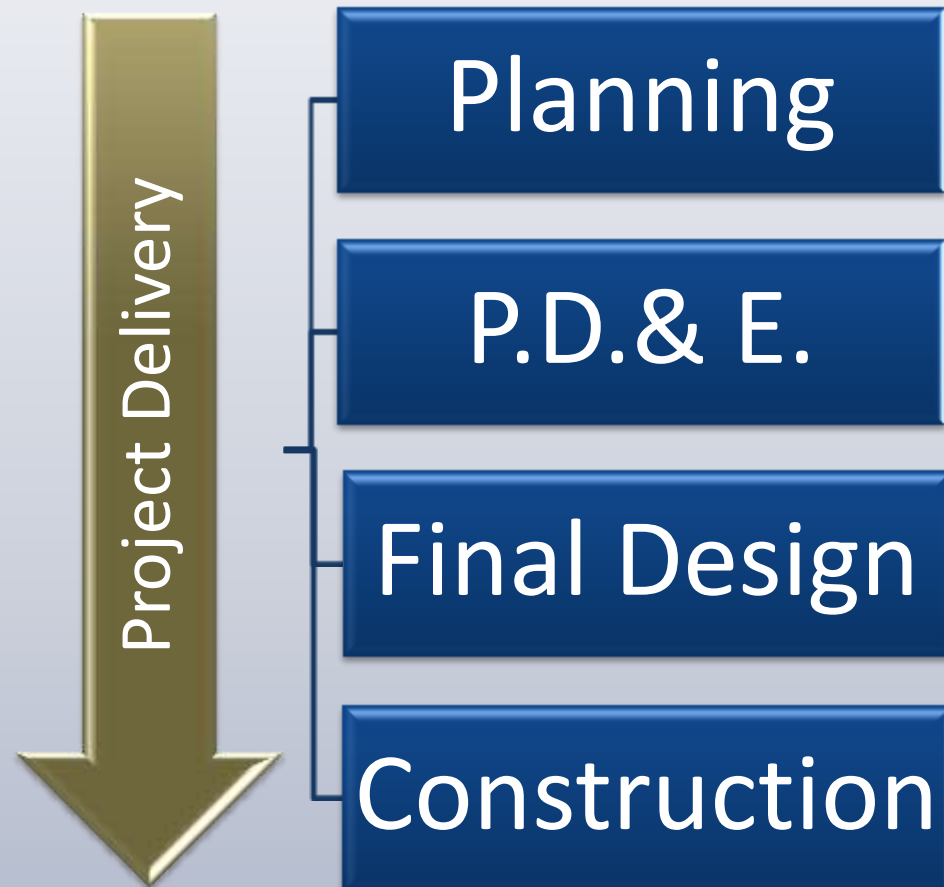
- Improve traffic operations
- Improve safety by reducing vehicle conflicts
- Enhance regional mobility and connectivity to the expressway network
- Improve freight mobility and access
- Enhance emergency evacuation and response times

## NEED

- Failing Traffic Level of Service (LOS F) in year 2040
- 20 Year Growth in Traffic Volumes and Employment
- High number of car crashes and crash rate
- Enhance east-west access to Florida's Turnpike and SR 826



# Project Delivery Process





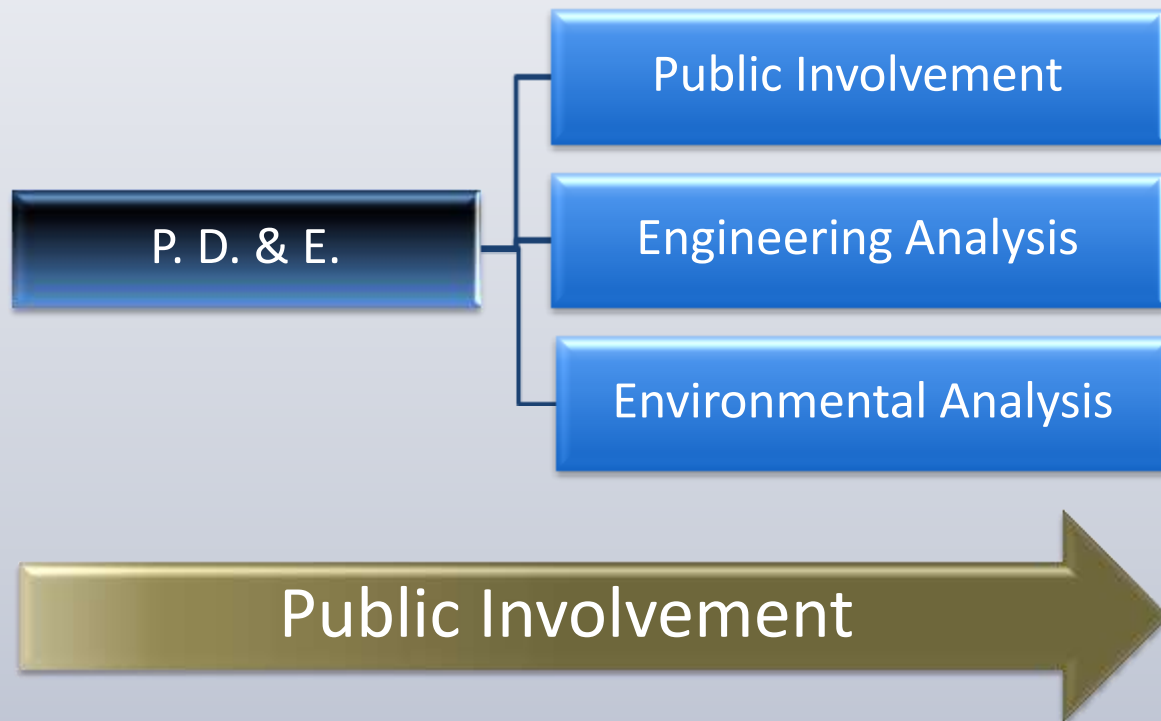
# Planning Phase

## Planning Phase

- 1. Evaluate Existing and Future Traffic Conditions**
- 2. Establish the Purpose and Need of the Project**
- 3. Develop Concepts to meet Traffic Need**
- 4. Screen Concepts for Viable Solutions**
- 5. Select Concept for Detailed Analysis in PD&E Phase**



# Project Development & Environment







# PD&E Phase

## PD&E Phase

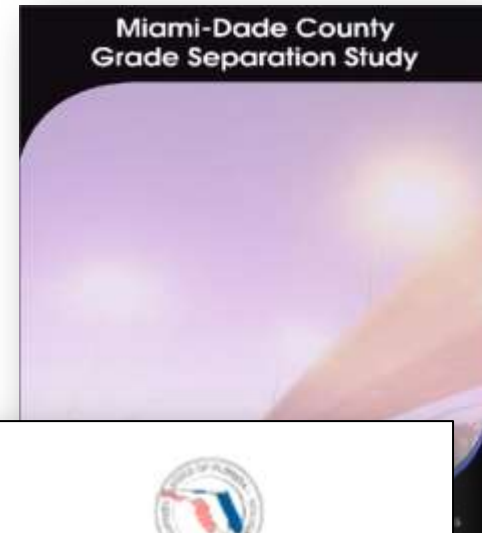
- 1. Conduct Agency Review via ETDM**
- 2. In Depth Analysis of Existing and Future Conditions**
- 3. Further Development of Planning Concept**
- 4. Evaluate Effects to the Community & Environment**
  - A. No Build Condition or Do Nothing**
  - B. Build Concept**
- 5. Obtain Public Input**
- 6. Select Preferred Concept for Design Phase**





# Project Background/History

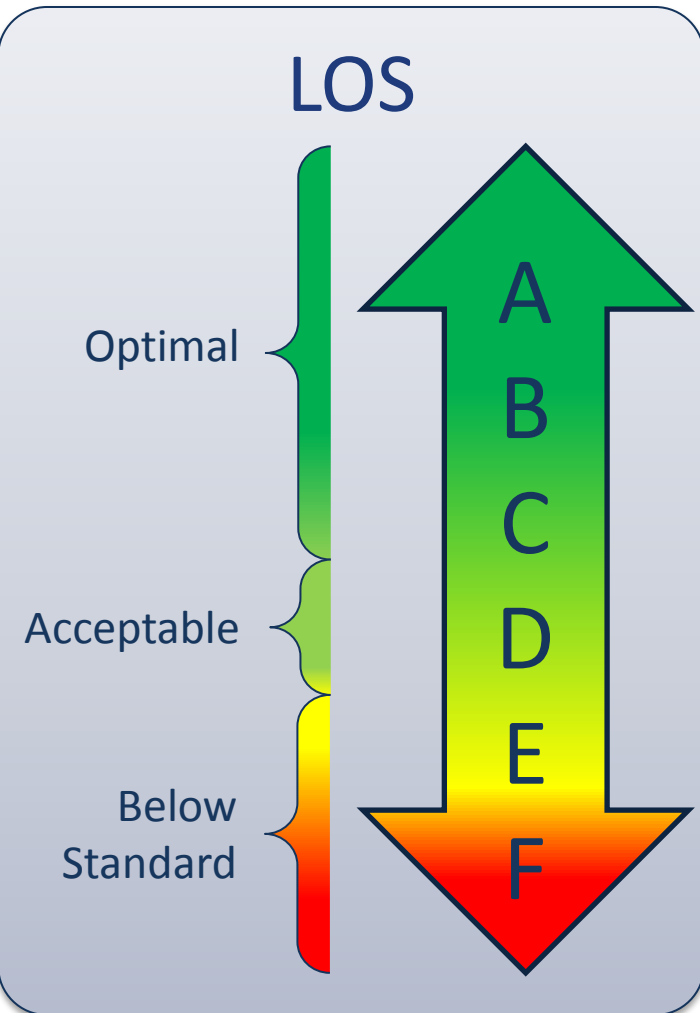
- **Miami-Dade MPO conducted the *Miami-Dade County Grade Separation Study*, (July 2005)**
  - Countywide study to reduce congestion
- **FDOT conducted the *SW 8<sup>th</sup> Street and SW 87<sup>th</sup> Ave. Intersection Improvements Concept and Feasibility Study*, (February 2012)**
  - Evaluation and screening of several concepts
- **Both planning studies concluded:**
  - An overpass improvement at the intersection of SW 8<sup>th</sup> Street and SW 87 Ave should be evaluated further
  - Future Year Level of Service will fail without improvements





# What is Level of Service?

- Level of Service (LOS)
  - A standard measurement, based on vehicle delay and speed, which reflects the relative ease of traffic flow on a scale of A to F
- LOS “A”: free-flow traffic
- LOS “F”: highly congested traffic conditions

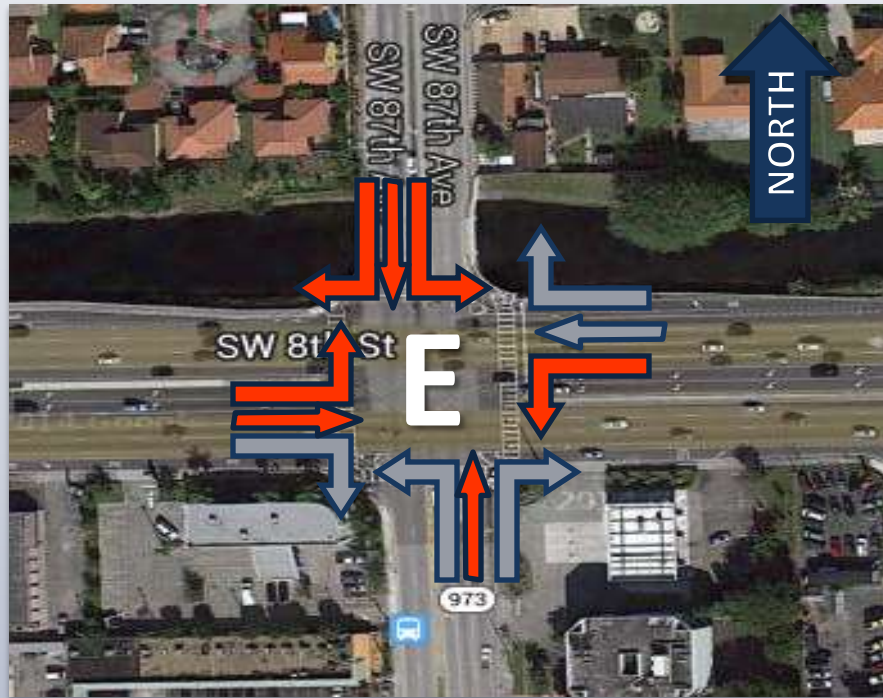




# Congestion Without Improvement

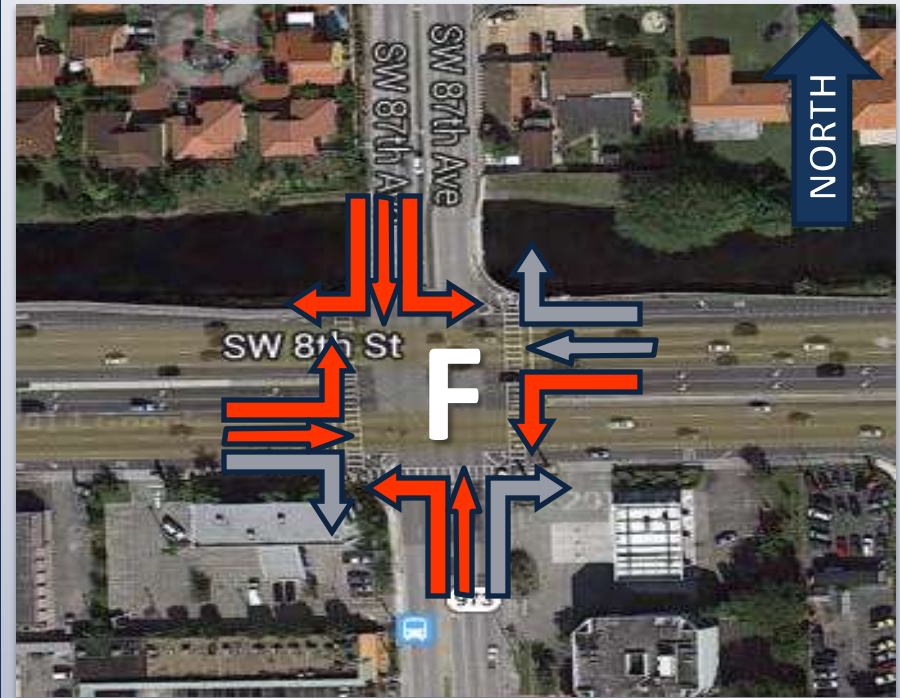
## Existing Condition

Year 2015 LOS = E



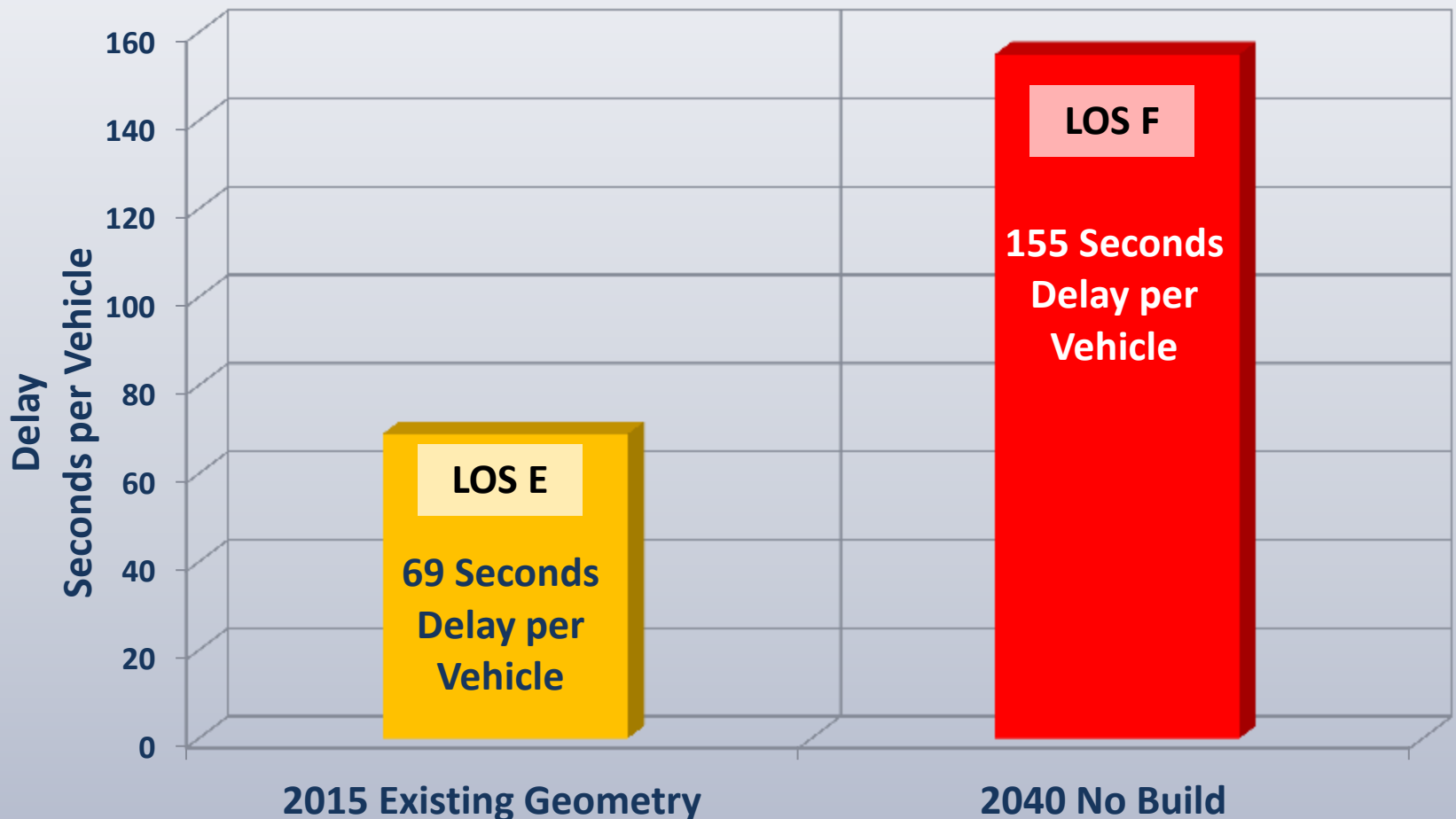
## Future No Build Condition

Year 2040 LOS = F





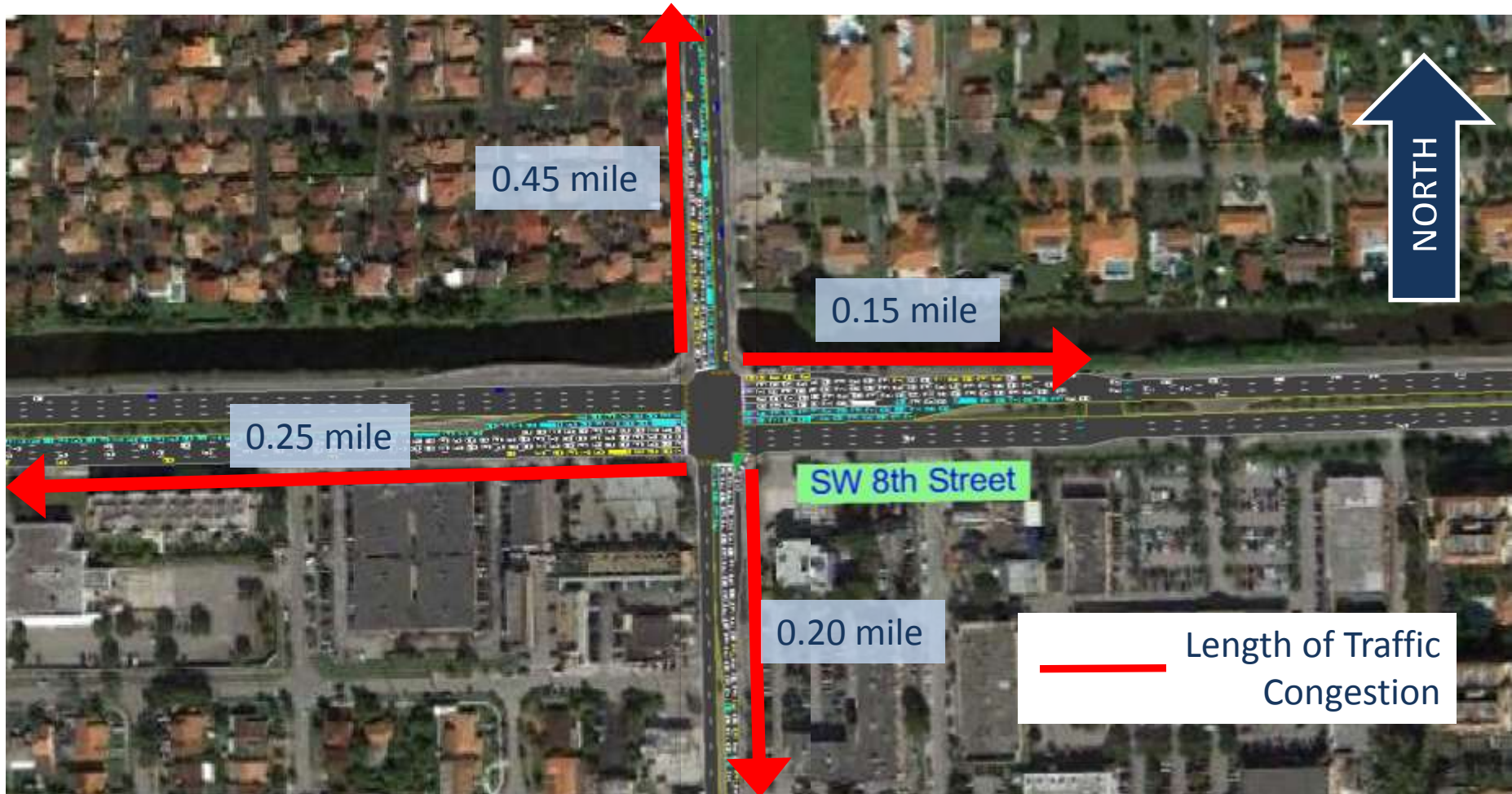
## Existing and Future Traffic Conditions at SW 8<sup>th</sup> Street and SW 87<sup>th</sup> Avenue







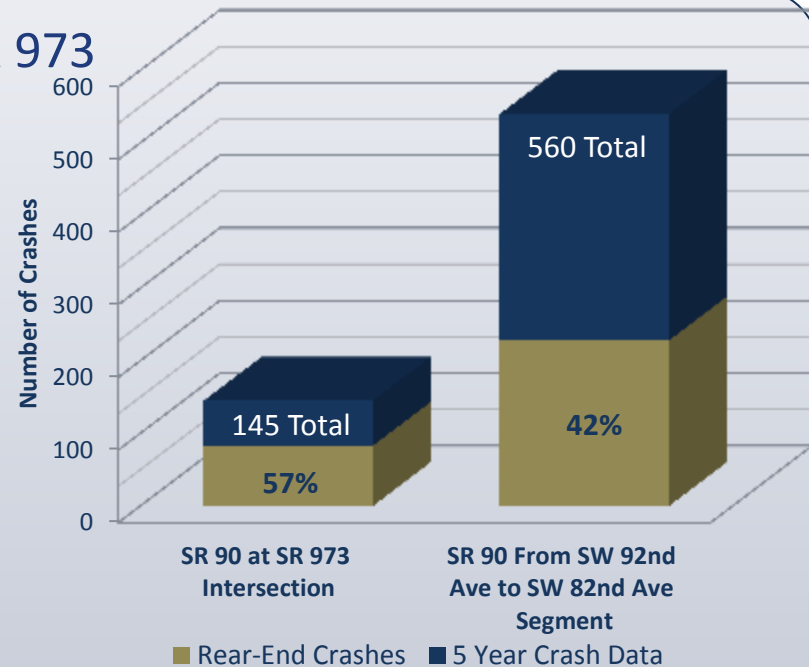
# Length of Traffic Congestion Year 2040





# 5-Year Crash History

- At the intersection SR 90 at SW 87 Ave/ SR 973
  - 145 crashes in 5 years (years 2004-2008)\*
  - 299 crashes in 5 years (years 2009-2013)
  - Safety Ratio 1.943\*
    - Acceptable ratio is 1.0 or lower
  - Intersection is High Crash Location
- 1 mile segment (SW 92<sup>nd</sup> to SW 82<sup>nd</sup> Ave.)
  - 560 crashes in 5 years (years 2004-2008)\*
  - 3 Fatalities occurred in 5 years\*



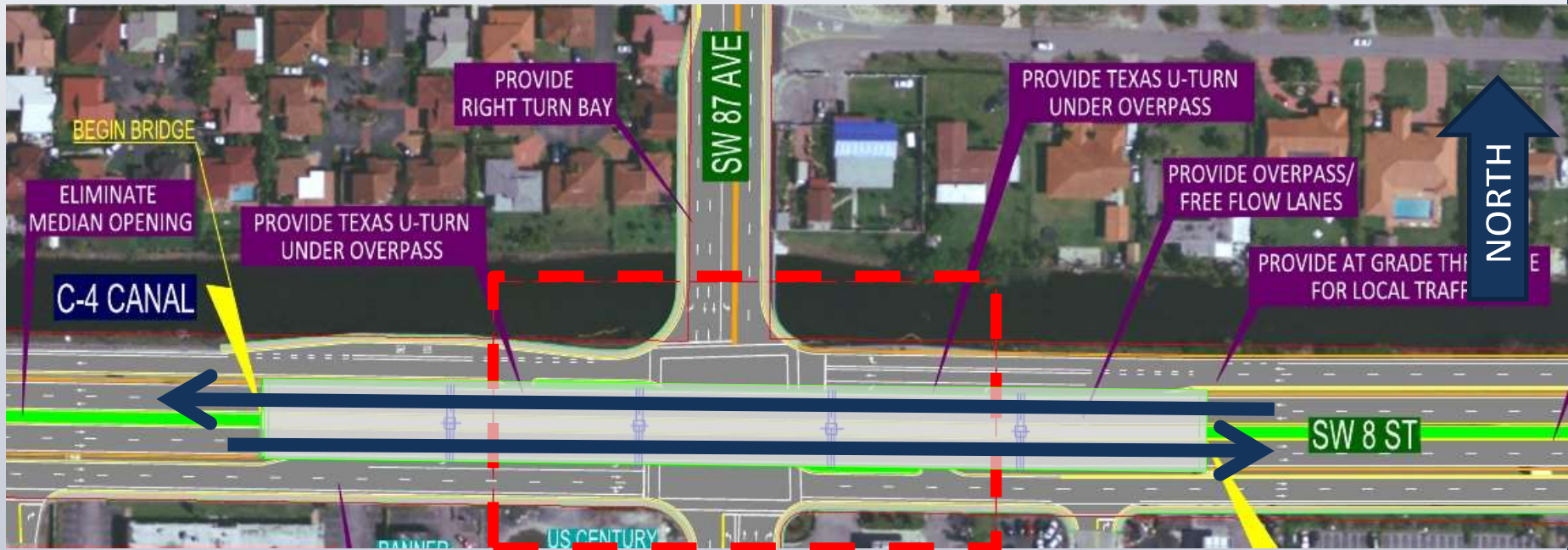
\*Reference: ETDM Summary Report, 2/9/2015





## Match Line



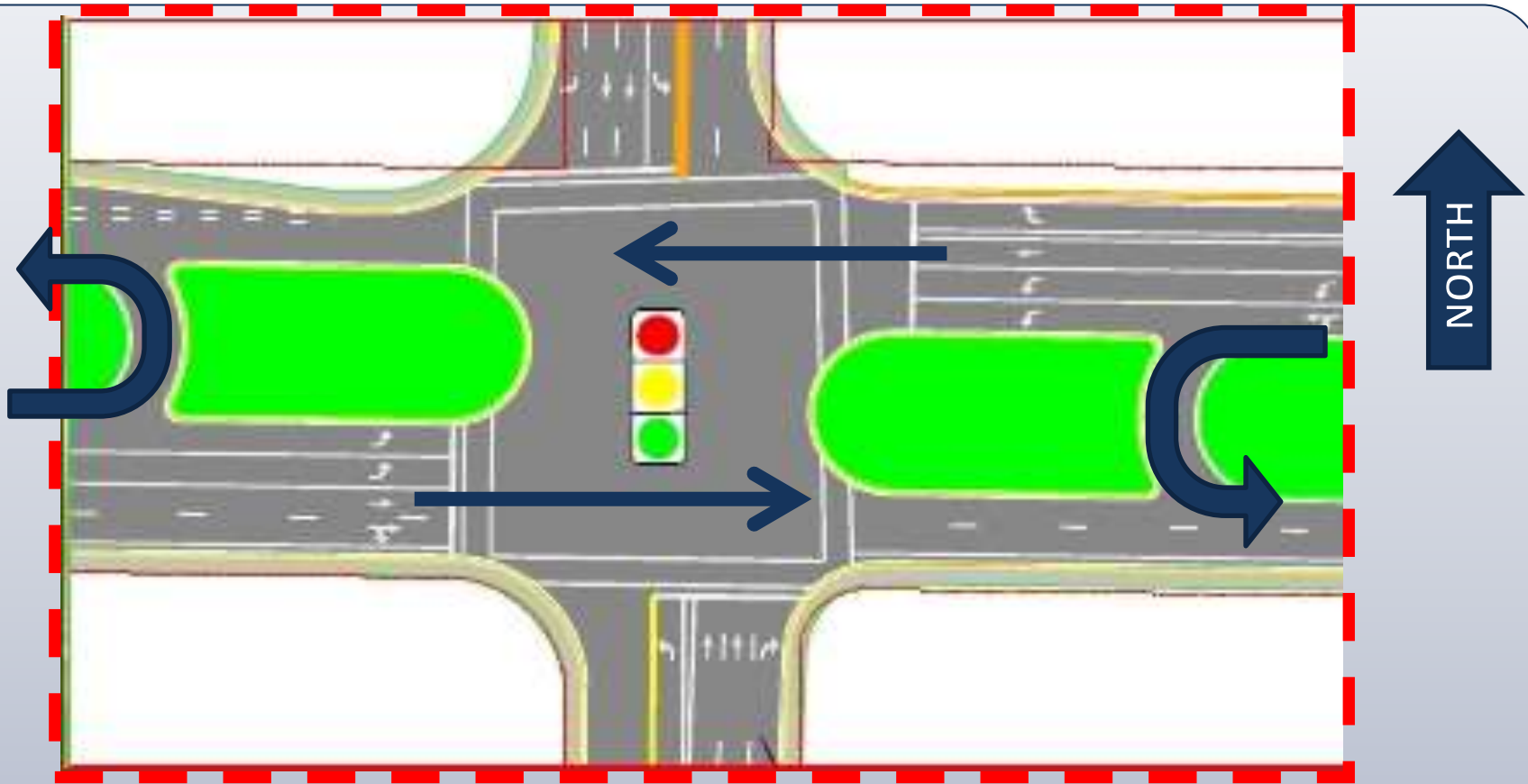


## East-West Overpass Concept





## View Underneath the Overpass



Provides: At-grade Traffic Lanes to Access Businesses, Turn Lanes, Bike Lanes, and Pedestrian Crosswalks



# Evaluate Canal Bridge at SW 87 Avenue

- Existing Bridge over the C-4 Canal on SW 87<sup>th</sup> Ave.
- Four lane divided roadway with median
- Natural Gas Line may require adjustments





# ETDM Agency Screening

## Efficient Transportation Decision Making (ETDM)

ETDM Summary Report  
Published February 2015

Social and Economic							Cultural			Natural					Physical					Special Designations
Land Use Changes	Social	Relocation Potential	Farmlands	Aesthetic Effects	Economic	Mobility	Section 4(f) Potential	Historic and Archaeological Sites	Recreation Areas	Wetlands	Water Quality and Quantity	Floodplains	Wildlife and Habitat	Coastal and Marine	Noise	Air Quality	Contamination	Infrastructure	Navigation	
2	3	2	N/A	3	3	3	3	3	N/A	2	3	2	2	N/A	3	0	4	2	N/A	N/A

LEGEND	
N/A	Not Applicable
0	None
1	Enhanced
2	Minimal
3	Moderate
4	Substantial
5	Potential Dispute or Resolution Dispute
	No ETAT Consensus
	No ETAT Reviews

- Conducted by Federal, State and Local Agencies
- ETDM Website: <https://etdmpub.flas-etat.org/est/>



# Environmental Evaluation Areas

- **Contamination**
  - Potentially contaminated sites will be evaluated
- **Water Quality**
  - Surface water impacts will be minimized through special planning, preparation permitting and design procedures with special considerations made for:
    - The C-4 Canal which is listed as an impaired water body
    - The Biscayne Sole Source Aquifer
- **Wetlands and Protected Species**
  - Evaluate and minimize impacts to wetlands and protected species





# Environmental Evaluation Areas

- **Noise**

- An impact study will be conducted along the project corridor to evaluate existing and future noise levels

- **Cultural, Historic & Archaeological Resources:**

- An inventory and assessment of resources will be evaluated for National Registrar of Historic Places (NRHP) eligibility
  - Tamiami Canal and Tamiami Trail
  - Historic Structures
  - Coordination with the Division of Historic Resources



# Agency Public Involvement

- Coordination
  - Miami-Dade Metropolitan Planning Association (MPO)
  - Miami Dade Public Works (MDPW)
  - Miami Dade Transit (MDT)
  - Florida Turnpike Enterprise (FTE)
  - Florida Department of Environmental Protection (FDEP)
  - Florida Division of Historical Resources
  - South Florida Water Management District (SFWMD)





# Community Public Involvement

- Many Opportunities For Public Comments
- Coordination With Local Communities
- Public Advisory Group



- 3 Public Meetings
  - Kickoff Meeting
  - Public Workshop
  - Public Hearing

- Website

[www.fdotmiamidade.com/sw8street-pde](http://www.fdotmiamidade.com/sw8street-pde)





## PD&E Study Schedule

Major Tasks	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
Public Involvement	▲													▲
Data Collection/Analysis	▲	▲	▲	▲										
Kickoff Meetings-Public, Elected Officials & Agencies			★											
Preliminary Concept			▲	▲	▲	▲	▲	▲						
Public Workshop (Tentative)								★						
Refine Concept									▲	▲	▲			
Public Hearing (Tentative)												★		
Finalize Concept												▲	▲	
Location Design Concept Approval (Tentative)														★

SR 90/SW 8th St at SR 973/SW 87th Ave. Project Development and Environment (PD&E) Study  
From SW 92nd Ave. to SW 82nd Ave.

ETDM No: 9892

Financial Project ID: 433627-1-22-01





# Contact Us

To submit comments or for more information regarding the  
SR 90 PD&E Study please contact:

**Maria Perdomo, PE Project Manager**  
Florida Department of Transportation  
- District Six

Adam Leigh Cann Building  
1000 NW 111<sup>th</sup> Avenue, Room 6251

Miami, Florida 33172

Phone: 305.640.7186

Fax: 305.640.7558

Email:

**[Maria.Perdomo@dot.state.fl.us](mailto:Maria.Perdomo@dot.state.fl.us)**

**Bill Evans, PE, ACIP Project Manager**  
Stanley Consultants, Inc.

8333 N.W. 53<sup>rd</sup> Street, Suite 450  
Miami, FL 33166

Phone: 786.762.4115

Alt. Phone: 561-584-8708

Email:

**[EvansBill@stanleygroup.com](mailto:EvansBill@stanleygroup.com)**

**Margarita Delgado, Public  
Information Specialist**

MRD Consulting

2655 Le Jeune Road, Suite 533  
Coral Gables, FL 33134

Phone: 305.774.7110

Email:

**[Margarita@mrd-consulting.com](mailto:Margarita@mrd-consulting.com)**

Visit the Project Website

**<http://www.fdotmiamidade.com/sw8street-pde>**



# Thank You

