



Florida Department of Transportation  
District Four

**Overview Presentation**  
**December 2016**

**I-95 at Northlake Boulevard Interchange**  
Financial Management Number: 435803-1-22-02  
Efficient Transportation Decision Making Number: 14182

# Presentation Outline

## ➤ Overview of Planning and Programming

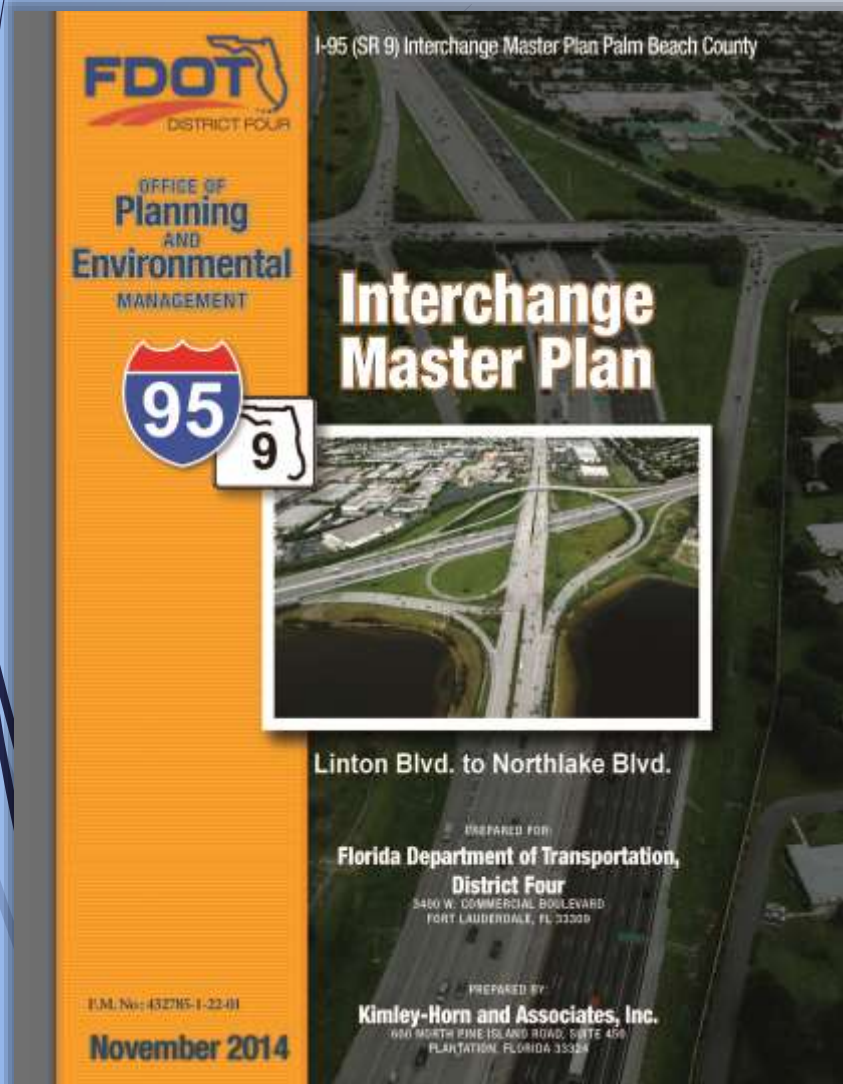
- I-95 Interchange Master Plan
- Strategic Intermodal System (SIS)
- Project Development Process

## ➤ Overview of I-95 at Northlake Blvd. Interchange Project

- Project Manager, Scott Thurman, P.E.

# SR 9 (I-95) Interchange Master Plan Palm Beach County

- Completed in December 2014
- Evaluated 17 interchanges
  - From Linton Boulevard to Northlake Boulevard
- Analyzed interchanges to determine existing and potential future deficiencies
- Coordinated with local agencies and MPO
- Identified operational and safety needs
  - Developed short-term improvements
  - Developed long-term conceptual design alternatives
- Facilitated programming of future interchange studies and projects through the SIS program

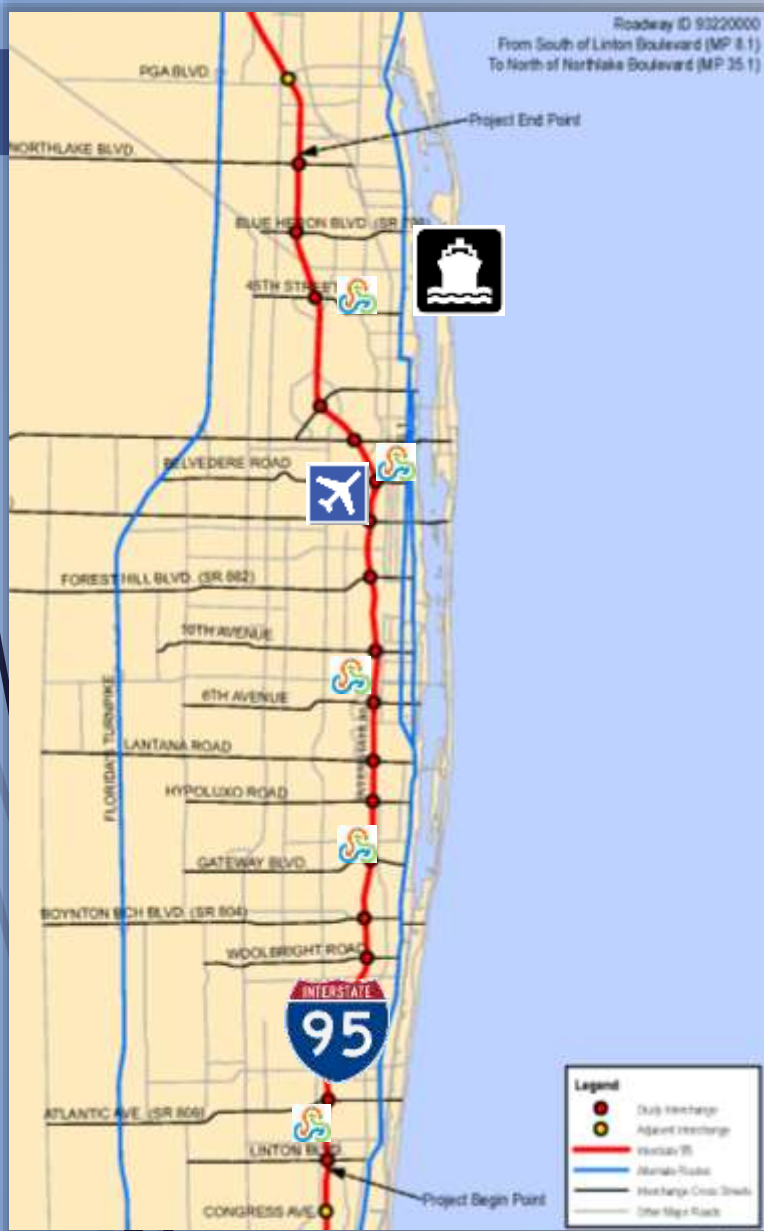


# SR 9 (I-95) Interchange Master Plan Study Results

FDOT incorporated recommendations into:

- Design Projects
- PD&E Studies

***FDOT programs PD&E Studies and Design Projects based on priority and SIS funding availability***





# Strategic Intermodal System (SIS)

- **Established by the Florida Legislature in 2003 (F.S. 339.61)**
- **State Funded Program**
- **Focuses state resources on transportation facilities most critical to statewide travel, including:**

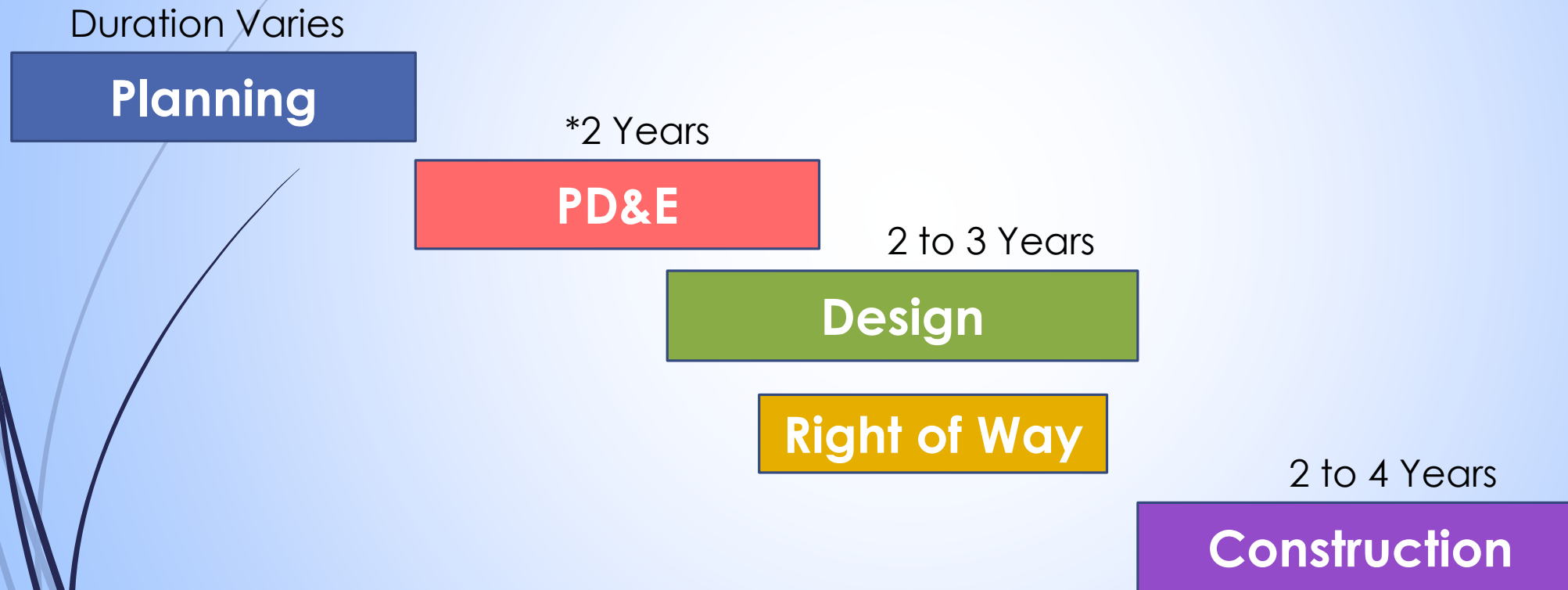
Interstates   Interchanges   Airports  
Seaports   Spaceports   Rail  
Highways of Interregional Significance  
"Last Mile" Connectors



## ➤ **SIS Planning Documents**

- **First 5 Year Plan** – projects funded in next 5 Years
- **Second 5 Year Plan** – projects planned for years 6-10
- **SIS Cost Feasible Plan** – projects planned for years 11-25
- **SIS Multi Modal Unfunded Needs Plan**

# Project Development Process Flowchart



# Opportunities for Public Involvement

## Public Meetings

- Public Kickoff Meeting
- Agency & Elected Officials Kickoff Meeting
- Alternatives Public Workshop
- Public Hearing



## Opportunities For Public Comment

- Meet with Local Community Groups
- City and County Commission Meetings
- Submit Comments on Website
- <http://www.95northlake.com>





# Alternatives Public Workshop

- Thursday, December 8, 2016
- 5:30 p.m. to 7:30 p.m.
- **Marriott Hotel**  
4000 RCA Boulevard  
Palm Beach Gardens
- Open to public
- Informal meeting
- Talk with project engineers
- Exchange ideas & review plans
- Provide public comment



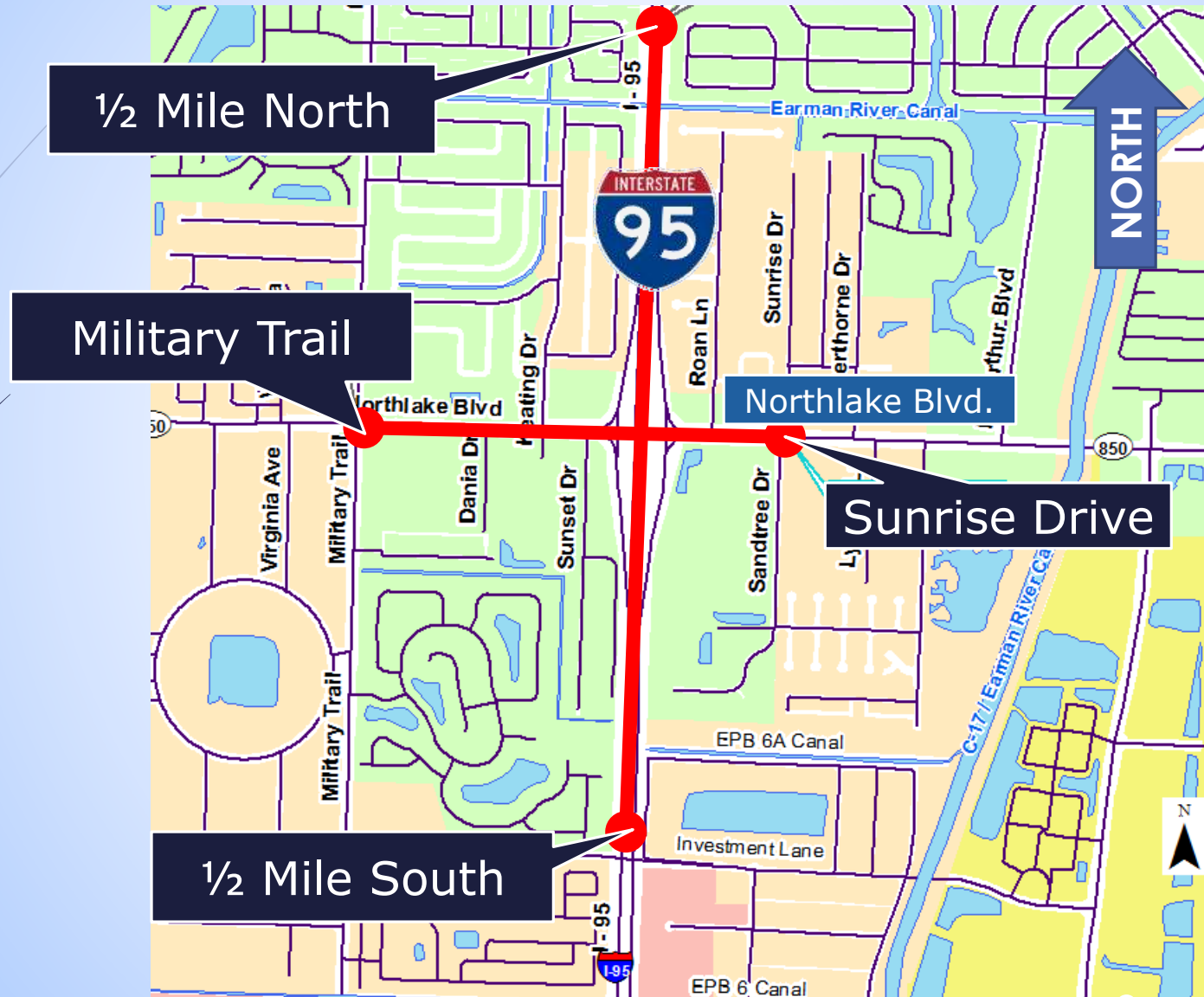


# Project Location Map

I-95 at Northlake Boulevard Interchange

FM Number: 435803-1-22-02

ETDM: 14182



# Project Purpose

- **Relieve the existing traffic congestion on the I-95 Ramps**
- **Provide for future traffic needs through the year 2040**
- **Improve mobility for pedestrians, bicyclist and transit**
- **Improve safety and reduce crashes**

# Project Purpose

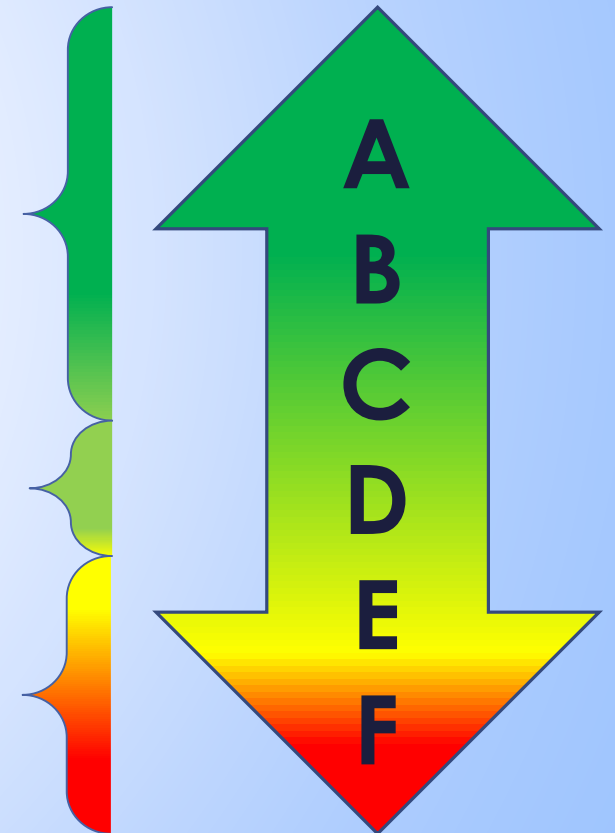
- **Maintain Reliable Travel Times through Year 2040**
- **Limit Motorist Delay to Level of Service "D"**

## Level of Service

Level of Service "A" = Optimal

Level of Service "D" = Acceptable Delay

Level of Service E and F is High Congestion  
Bumper to Bumper Traffic  
Below Standard



# Deficiencies and Needs - Today

- **Traffic congestion backs-up on the I-95 Exit Ramps**
- **Heavy traffic congestion on Northlake Blvd.**





# Deficiencies and Needs - Today

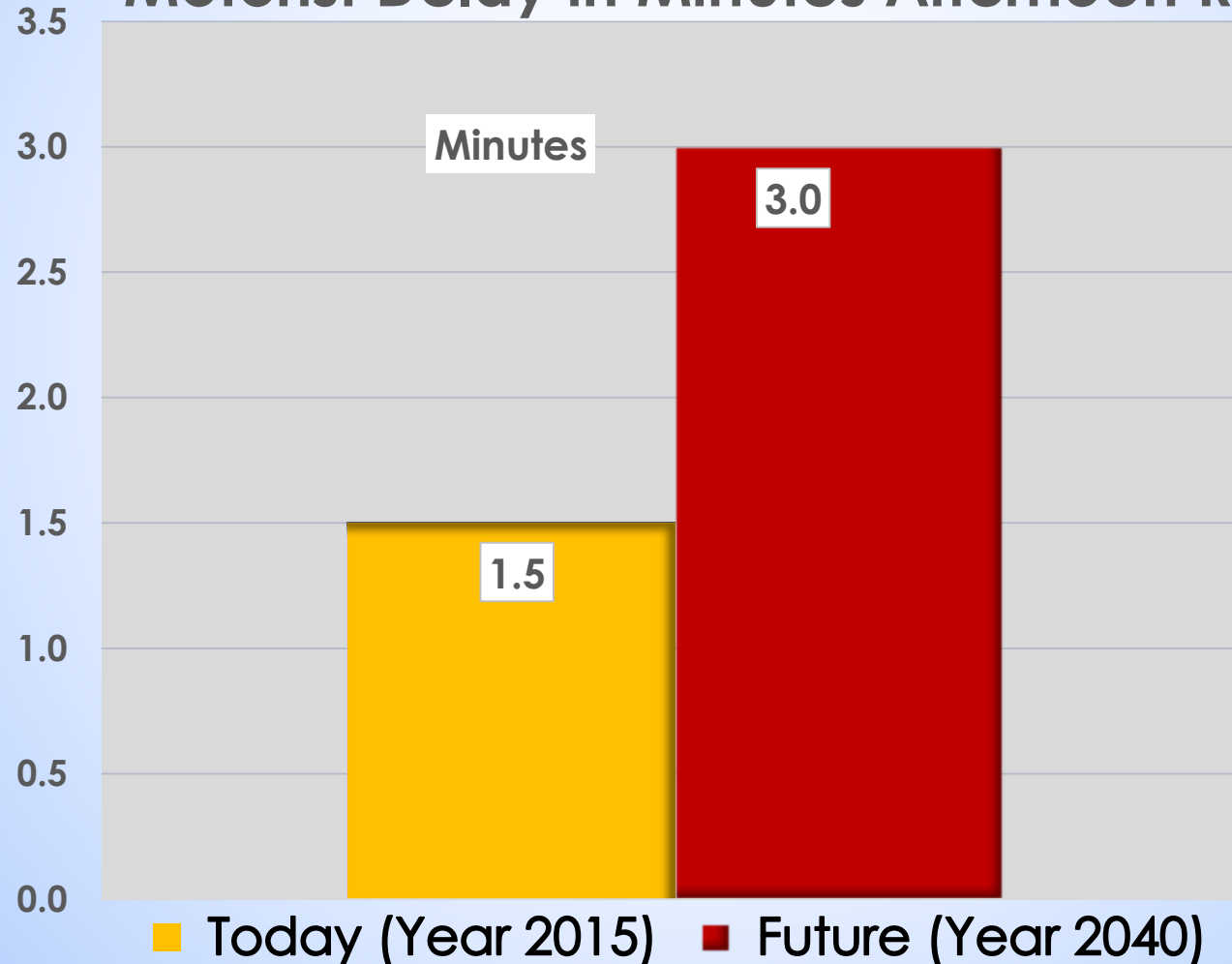
- **I-95 at Northlake Blvd has higher crashes than State averages**
  - **I-95 Northbound Off-Ramp**
  - **I-95 mainline between milepost 34.6 and 34.8**
  - **2 Fatalities at I-95 Ramps**



Year	Number of Crashes Vicinity of Interchange
2010	83
2011	59
2012	67
2013	84
2014	109
<b>Total</b>	<b>402</b>

# Deficiencies – Today & Future

Motorist Delay in Minutes Afternoon Rush Hour



**Without Highway Improvements**

**By year 2040 future drivers will wait 3 minutes at each ramp signal**

# Deficiencies and Needs – Today

High Traffic Congestion LOS “D” “E” and “F”



LOS shown represents afternoon rush hour traffic condition in year 2015.



# Deficiencies and Needs - Future

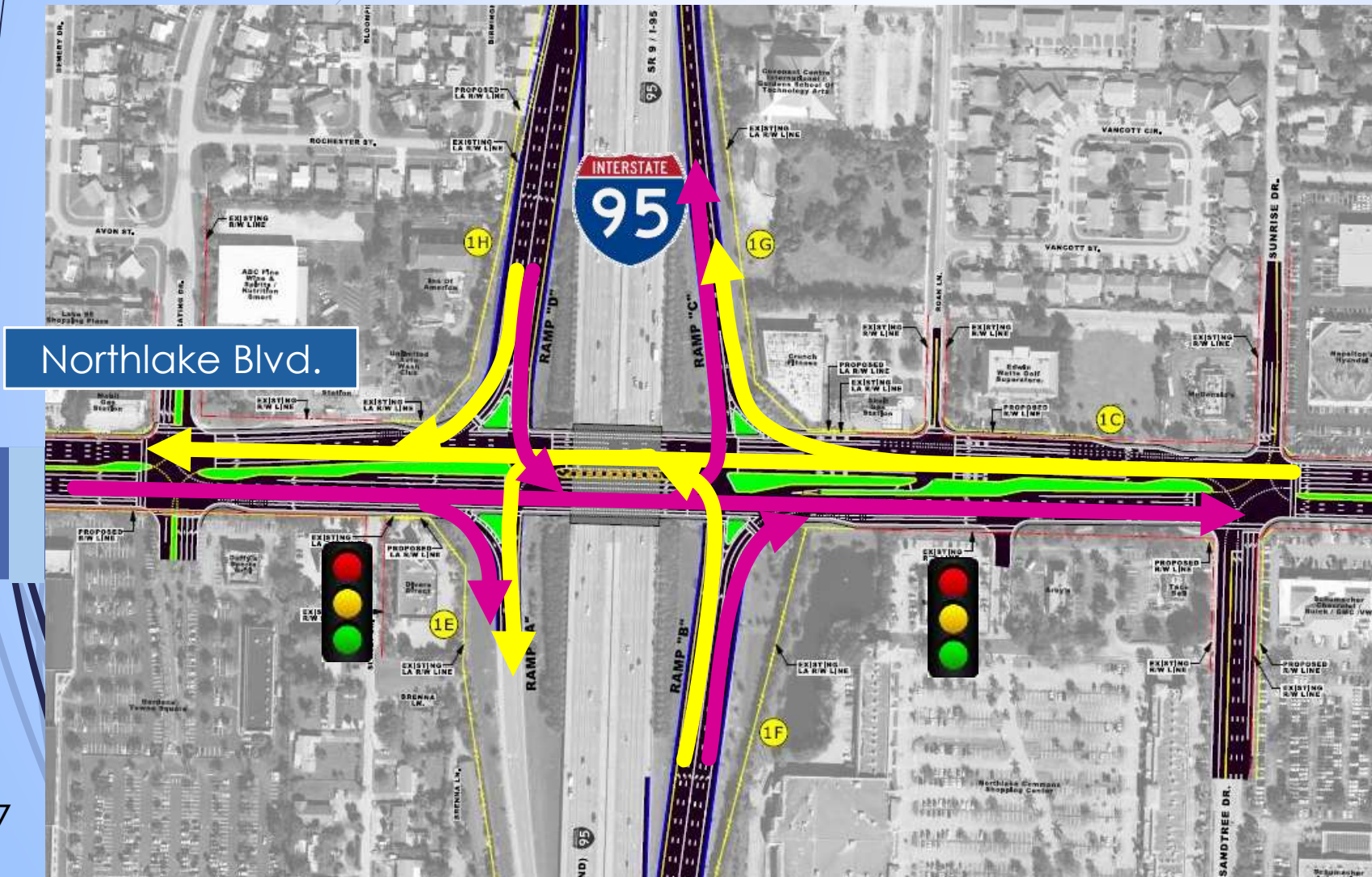
High Traffic Congestion Level of Service “F”  
Without Improvements



LOS shown represents afternoon rush hour traffic condition in year 2040.



# Overview of Concepts: Alternative 1 Modified Concept Report

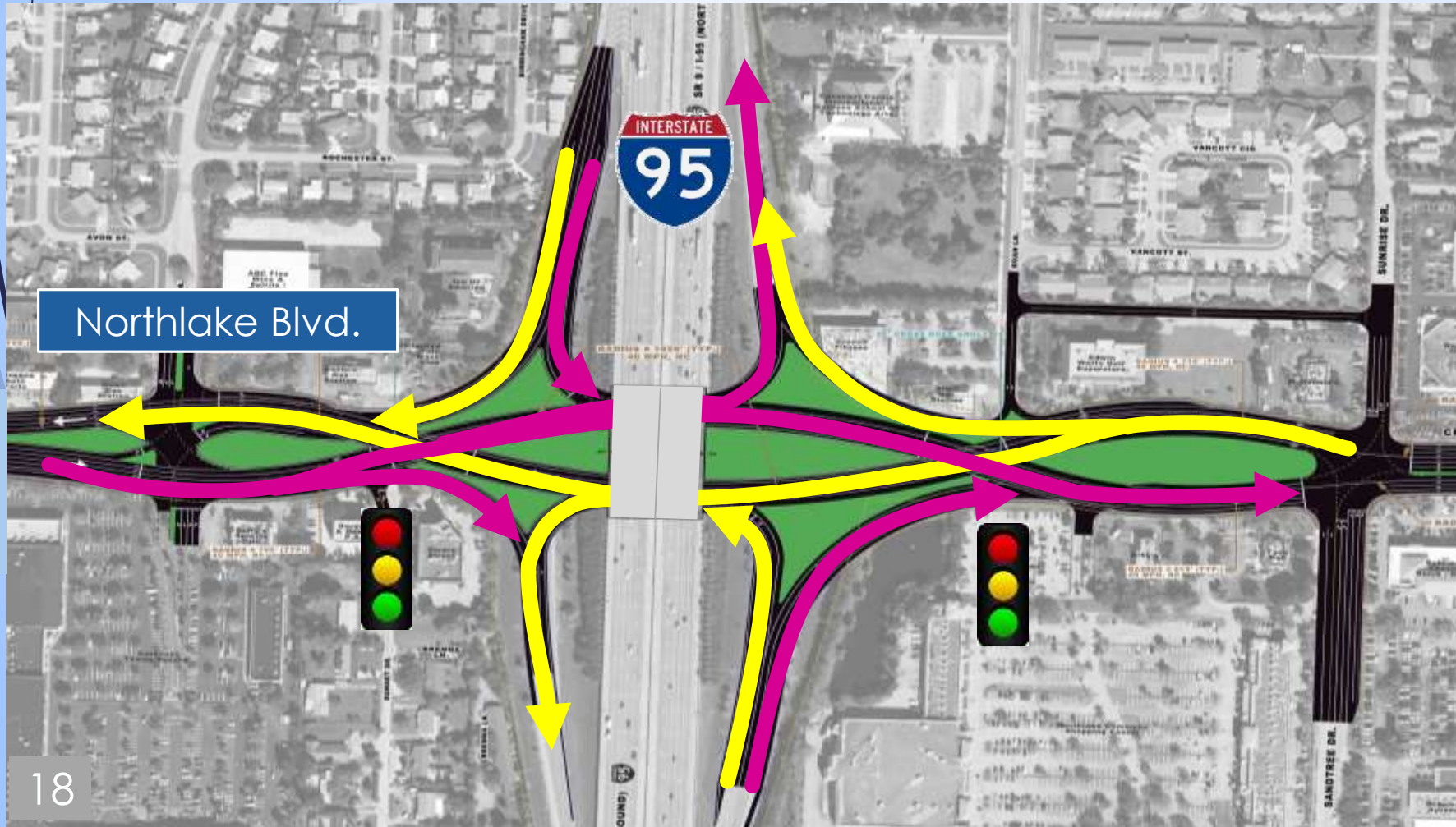


- **Conventional Interchange**
- **Add Lanes to I-95 Ramps**
- **Add 1 lane eastbound (EB) & westbound (WB) to improve intersection operations**
- **Improves traffic flow**



# Overview of Concepts: Alternative 2

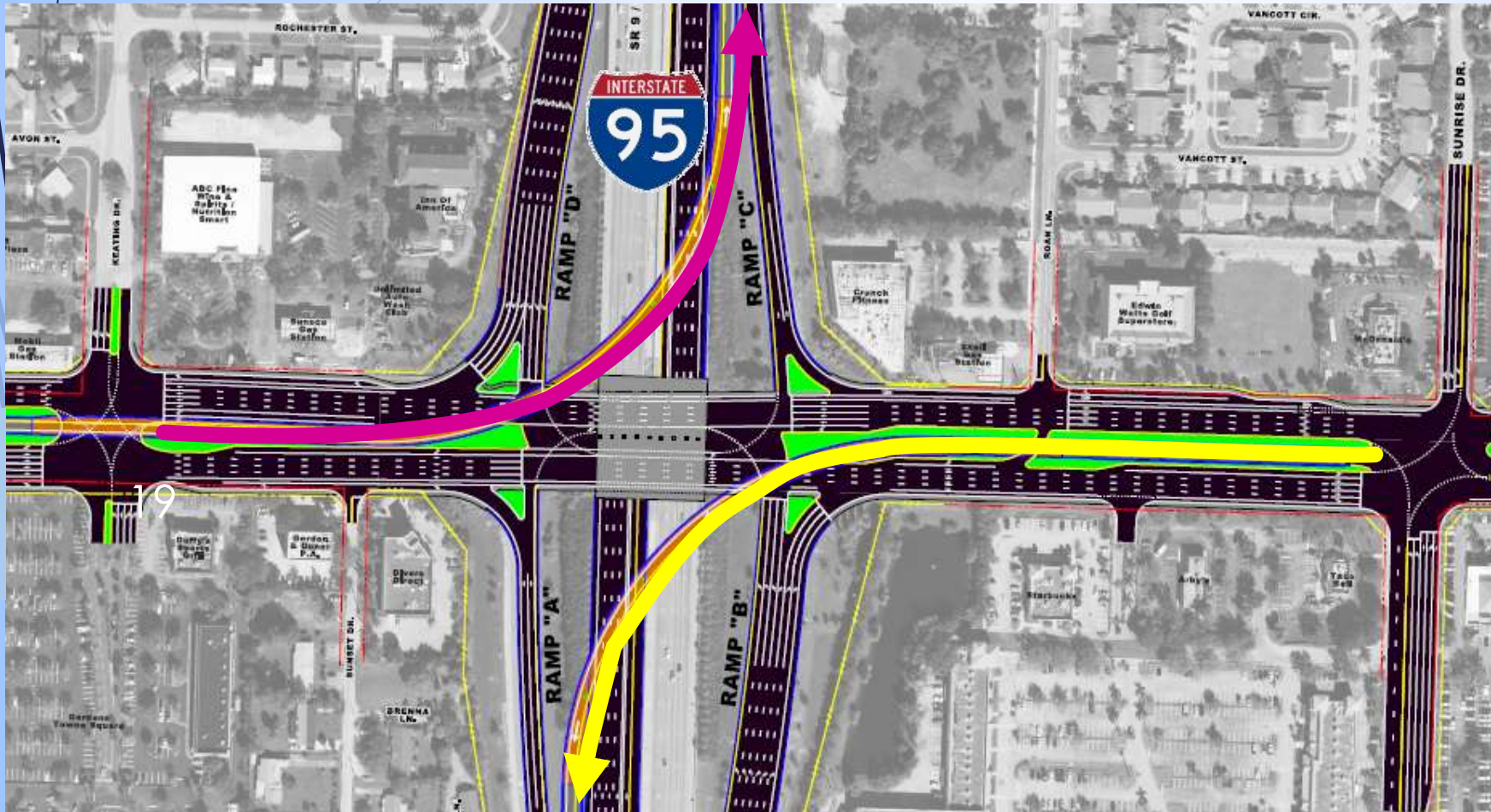
## Diverging Diamond Interchange



- **Modern Interchange Layout**
- **Add Lanes to I-95 Ramps**
- **Add 1 lane EB & WB to improve intersection operations**
- **Meets Purpose and Need**

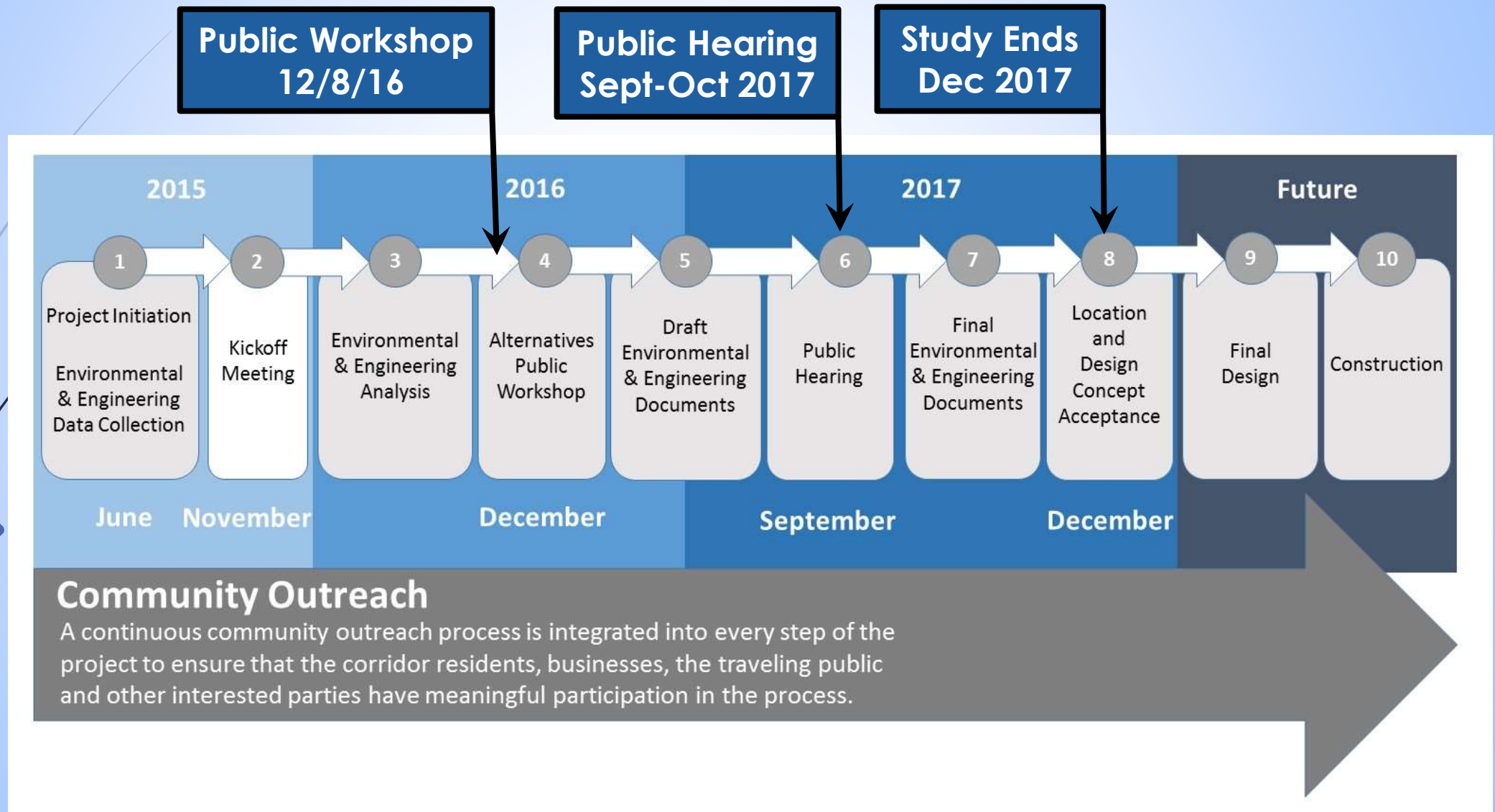


# Overview of Concepts: Alternative 3 Elevated On-Ramps



- Add Elevated On-Ramps above I-95
- Add 1 lane EB & WB to improve intersection operations
- Meets Purpose and Need

# Timeline





# Funding

## ➤ Funds Programmed

### Design

\$ 5,000,000  
Year 2018

### Right of Way

\$ 53,900,000  
Year 2020

### Construction

\$ 13,700,000  
Year 2022

## ➤ Estimated Project Costs

### Estimated Project Costs

Costs per Alternative	No-Build	Build <u>Alternative 1</u> Modified Concept Report	Build <u>Alternative 2</u> Diverging Diamond	Build <u>Alternative 3</u> Dual Flyover Ramps
Roadway Construction Costs	\$0.00	\$28,000,000	\$34,500,000	\$53,400,000
Design Engineering Costs (10%)	\$0.00	\$2,800,000	\$3,500,000	\$5,300,000
CEI Costs (13%)	\$0.00	\$3,600,000	\$4,500,000	\$6,900,000
Right-of-Way Costs	\$0.00	\$25,700,000	\$48,300,000	\$66,200,000
Total Alternative Cost	\$0.00	\$60,100,000	\$90,800,000	\$132,000,000

# Contact Us

To submit comments or for more information regarding the  
SR 9/ I-95 at Northlake Blvd Interchange PD&E Study  
please contact:

**Project Manager, Scott Thurman, PE**

Florida Department of Transportation - District Four  
3400 West Commercial Blvd.

Fort Lauderdale, Florida 33309-3421

Phone: 954.777.4135

Email: [Scott.Thurman@dot.state.fl.us](mailto:Scott.Thurman@dot.state.fl.us)

Visit the Project Website

<http://www.95northlake.com>



Thank You