



SR 29 FROM I-75 TO OIL WELL RD

PROJECT DEVELOPMENT & ENVIRONMENT (PD&E) STUDY



MPO BOARD KICKOFF MEETING

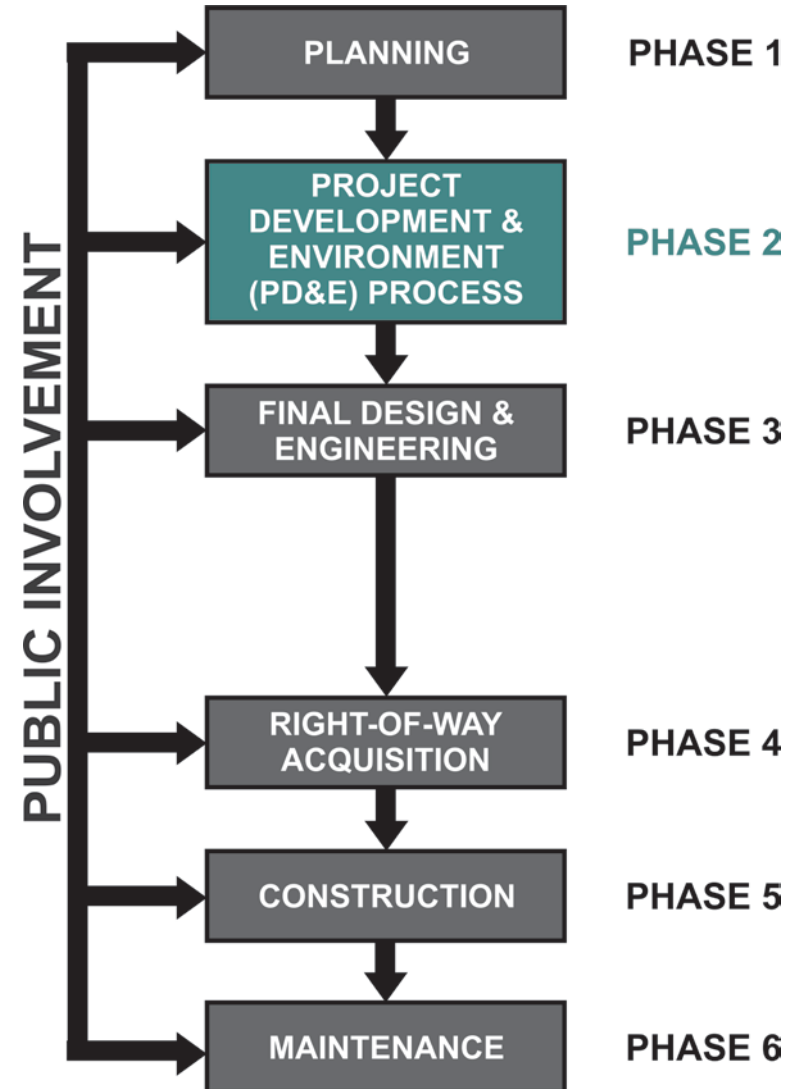
FM NO.: 4344920-1-22-01

State Road 29 PD&E Study



What is a PD&E?

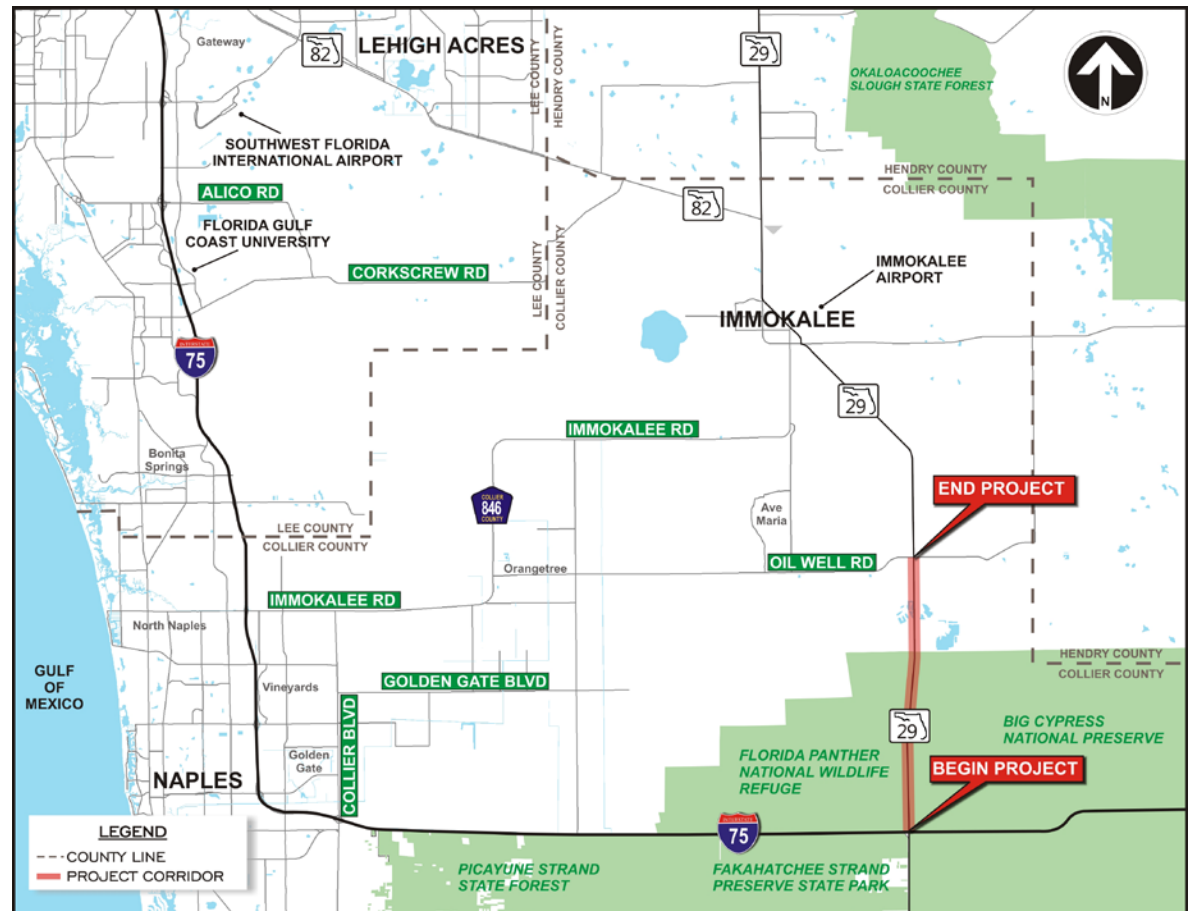
- Process used to evaluate -
 - Engineering Alternatives
 - Environmental Impacts and Social, Cultural and Economic Impacts Associated with a Planned Transportation Project
 - Public Involvement
- The PD&E study entails the preparation of all preliminary engineering and environmental documentation
 - Environmental Assessment (EA)



State Road 29 PD&E Study

Project Description & Existing Conditions

- 10.2 miles
- 2-lane undivided highway (rural)
- Emerging Strategic Intermodal System (SIS)
- 4 bridges & 4 wildlife crossings
- Divides Big Cypress National Preserve and Florida Panther National Wildlife Refuge
- Hurricane Evacuation Route
- Primary Truck Route
- In cooperation with National Park Service



State Road 29 PD&E Study

Purpose & Need

- Project Status
- System Linkage
- Capacity
- Transportation Demand
- Safety



State Road 29 PD&E Study

Purpose & Need



Project Status

- Collier Metropolitan Planning Organization (MPO) 2040 Long Range Transportation Plan (LRTP)
 - Amended October 14, 2016
- MPO Fiscal Year 17/18-21/22 Transportation Improvement Program
 - SIS Priority Project



COLLIER 2040

Long Range Transportation Plan
FINAL REPORT

Amended September 9, 2016 per request of FDOT, Appendix C, Cost Feasible Plan
Amended October 14, 2016 per request of MPO Board, page 4-18, Needs Assessment



We Plan so that Tomorrow's Horizon is as Inspirational as Today's

STRATEGIC INTERMODAL SYSTEM COST FEASIBLE PLAN 2024-2040

DISTRICT 1

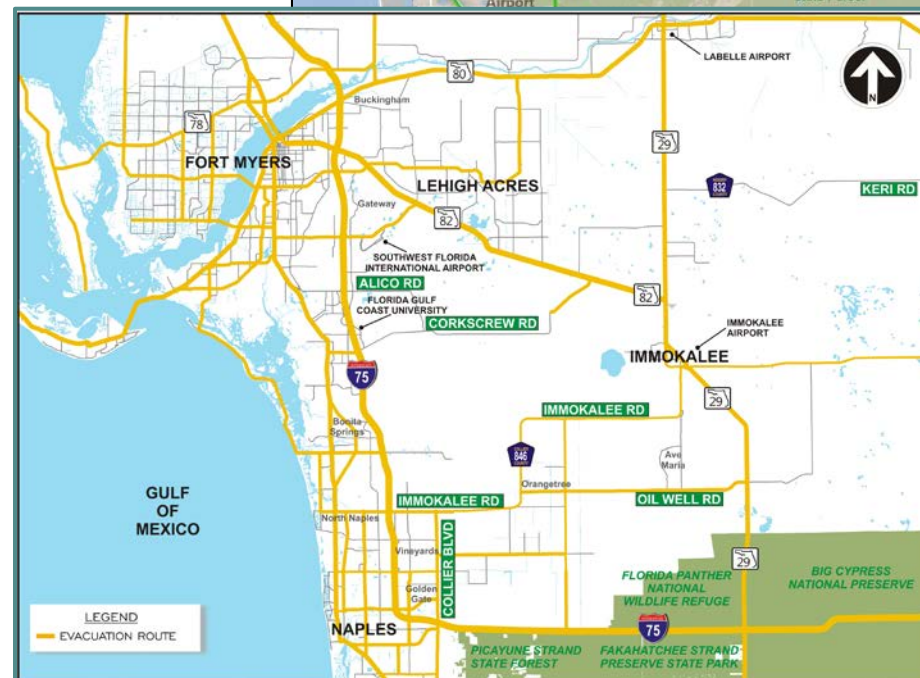
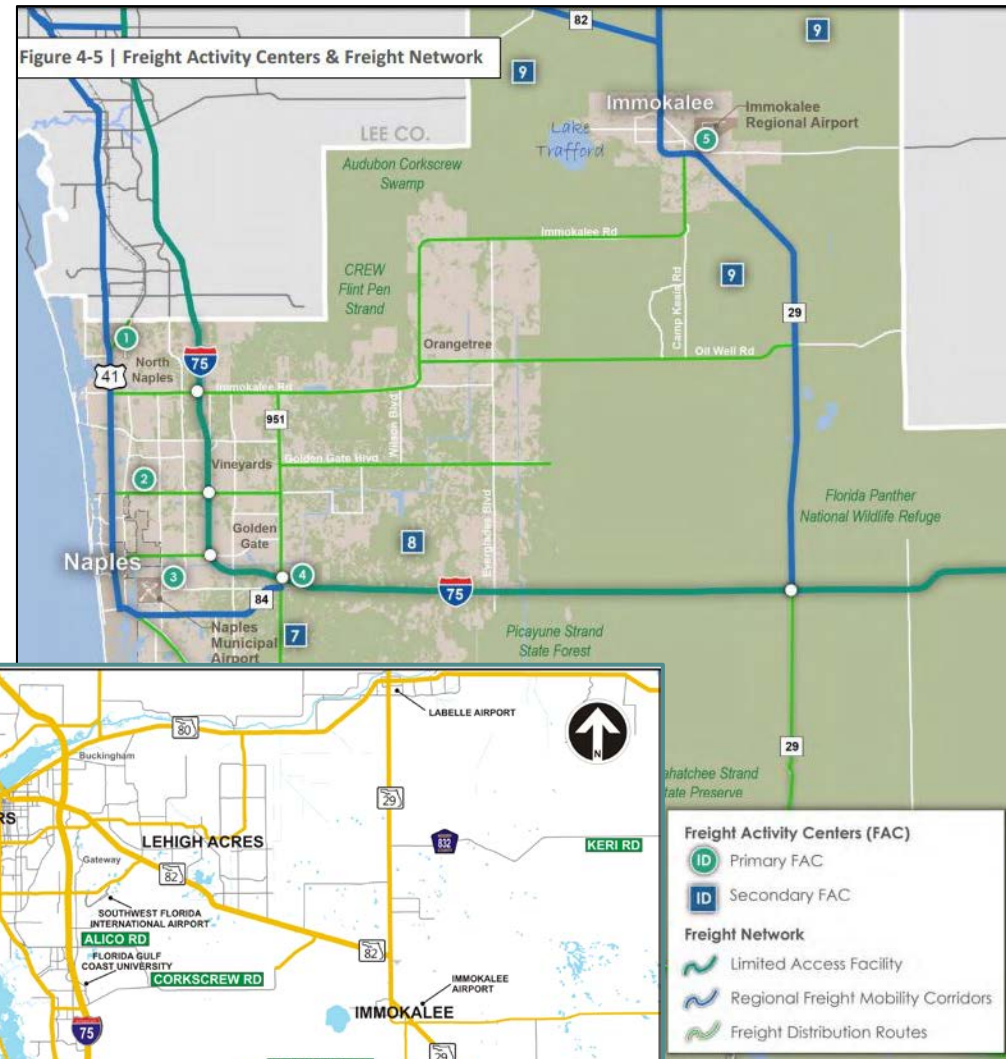
| ID | FACILITY | FROM | TO | Design | | | District Managed Funds | | | State Managed Funds | | | State Managed P3 Funds | Other Funds | IMPRV TYPE | Project Phasing | | | | |
|-------------------|----------|------------------------------|------------------------------|--------|--------|--------|------------------------|---------|-----------|---------------------|-----------|-----------|------------------------|-------------|------------|-----------------|----------|------|-----|----|
| | | | | PDE | PE | TOTAL | ROW | CON | TOTAL | ROW | CON | TOTAL | | | | COST | Begin Yr | #Yrs | PDE | PE |
| 909 | I-75 | at Fruitville Rd | | | | | | | | | | | | | | M-INCH | | | | |
| 1248 | SR 82 | Homestead Rd S | Henry C/L | | | | | 81,088 | 81,088 | 35,693 | | 35,693 | | | | A4-6 | | | | |
| 1256 | SR 29 | Collier C/L | CR 832 (Keri Rd) | | | | | 29,484 | 29,484 | | | | | | | A2-4 | | | | |
| 1257 | SR 29 | CR 832 (Keri Rd) | Spencer | | | | | | | 11,716 | | 11,716 | | | | A2-4 | | | | |
| 1258 | SR 29 | Spencer | N of Cowboy Way | | | | | | | 3,790 | | 3,790 | | | | A2-4 | | | | |
| 1259 | SR 710 | US 441 | L-63 Canal | | | | | 38,110 | 38,110 | | | | | | | NR | | | | |
| 1287 | I-75 | at Bee Ridge Rd | | | | | | 41,825 | 41,825 | | | | | | | | | | | |
| 1288 | I-75 | at SR 72 (Clark Rd) | | | | | | | | 72,980 | | 72,980 | | | | M-INCH | | | | |
| 1385 | SR 29 | Bermont Rd (CR 74) | US 27 | | | | | 98,853 | 98,853 | | 1,900 | 1,900 | | | | M-INCH | | | | |
| 1392 | US 27 | CR 630A | Presidents Dr | | | | | 49,968 | 49,968 | | | | | | | A2-4 | | | | |
| 1383 | SR 29 | CR 80-A (Cowboy Way) | Whidden Rd (CR 731) | | | | | 170,567 | 170,567 | | | | | | | A2-6 | | | | |
| 1387 | I-75 | at SR 951 | | | | | | | | 76,348 | | 76,348 | | | | A2-4 | | | | |
| 1391 | US 27 | Highlands C/L | CR 630A | | | | | 85,475 | 85,475 | | | | | | | M-INCH | | | | |
| 1689 | I-4 | North Socrum Loop Road | SR 570 (Polk Pkwy) | | 3,866 | 3,866 | | | | | 1,262,201 | 1,262,201 | | | | A2-6 | | | | |
| 969 | US 17 | Copley Drive | N of CR 74 (Berment Rd) | 1,077 | 1,031 | 2,108 | | | | | | | | | | A4-SUL | | | | |
| 1379 | SR 29 | I-75 | Oil Well Rd | | 6,186 | 6,186 | 3,630 | | 3,630 | | | | | | | A2-4 | | | | |
| 1386 | SR 70 | Jefferson Ave | CR 29 | | 4,124 | 4,124 | | | | | | | | | | A2-4 | | | | |
| 1403 | I-4 | SR 570 (Polk Pkwy) | US 27 (SR 25) | | 1,675 | 1,675 | 645,421 | | 645,421 | | | | | | | A2-4 | | | | |
| 1589 | SR 70 | Lorraine Rd | Singletary Rd (Myakka City) | | 8,764 | 8,764 | | | | | | | | | | A4-SUL | | | | |
| 1590 | SR 70 | Singletary Rd (Myakka City) | American Legion Dr (Arcadia) | 3,093 | 10,826 | 13,919 | | | | | | | | | | A2-4 | | | | |
| 1591 | SR 70 | American Legion Dr (Arcadia) | Jefferson Ave | 5,155 | 18,455 | 23,610 | | | | | | | | | | A2-4 | | | | |
| 1592 | SR 70 | CR 29 | US 98 (Eagle Bay Dr) | 5,155 | 18,558 | 23,713 | | | | | | | | | | A2-4 | | | | |
| 1593 | SR 60 | CR 630 | Kissimmee River Bridge | | 4,640 | 4,640 | | | | | | | | | | A2-4 | | | | |
| 1688 | I-4 | SR570 (Polk Pkwy) | North Socrum Loop Road | | 2,578 | 2,578 | | | | 973,070 | 973,070 | | | | | A4-SUL | | | | |
| Funded CFP Totals | | | | | | 95,183 | | | 1,244,421 | | | 2,437,698 | | | | | | | | |

State Road 29 PD&E Study

Purpose & Need

- **System Linkage**

- SR 29 is one of 4 designated Freight Mobility Corridors in Collier County
- SR 29 is an emerging SIS corridor
- Connects to numerous Freight Activity Centers
 - Immokalee Regional Airport
 - Americas Gateway Logistic Center
 - Hendry County Airglades Expansion
 - Rodina Sector Plan
 - Southwest Hendry County Sector Plan
- Evacuation Route

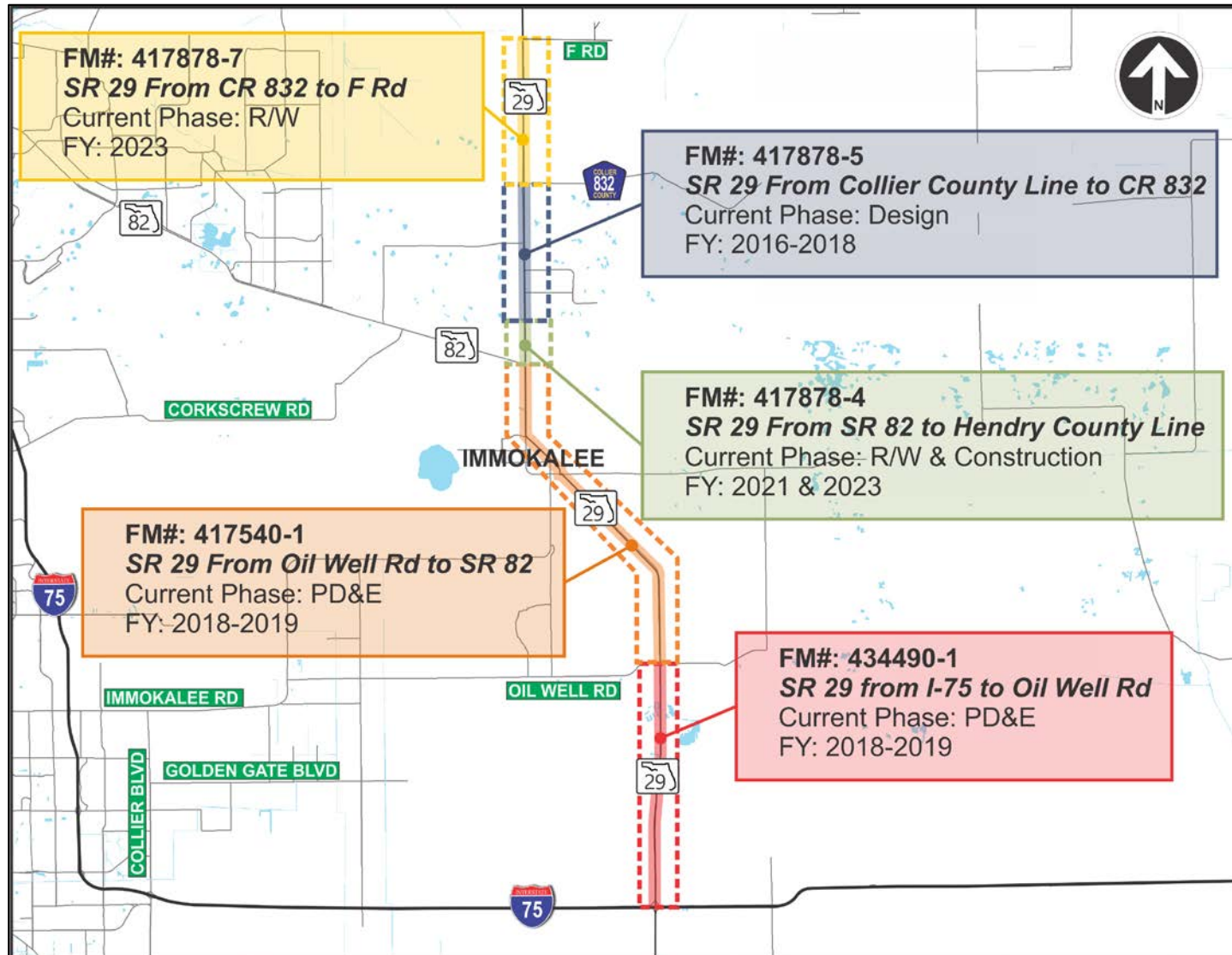


State Road 29 PD&E Study

Purpose & Need

- **System Linkage**

- Improving this stretch of SR 29 from I-75 is the final piece of a unified regional approach that addresses the critical freight needs along all of SR 29



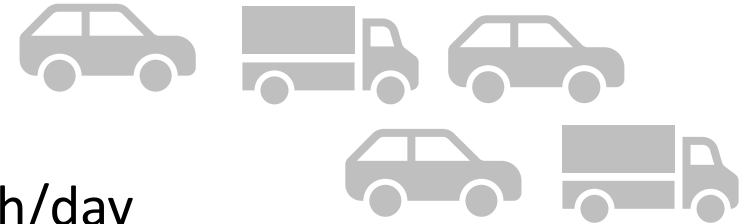
State Road 29 PD&E Study



Purpose & Need

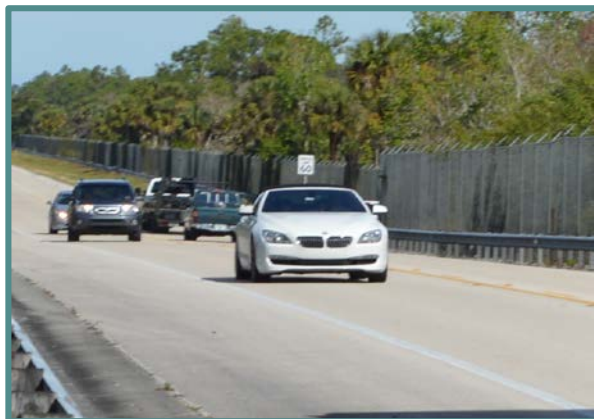
• Capacity

- Existing (2017) AADT 3,700
- Anticipated No-Build (2045) AADT: 8,500 veh/day
 - Does not meet LOS C threshold
- Truck Percent 24.1%



Existing vs Projected LOS Comparisons

| Roadway | Segment | | Adopted LOS | | AADT | | LOS | |
|---------|---------|--------------|-------------|----------------|-------|-------|------|------|
| | From | To | LOS Target | Service Volume | 2017 | 2045 | 2017 | 2045 |
| SR 29 | US 41 | I-75 | C | 8,400 | 1,800 | 2,100 | B | B |
| | I-75 | Oil Well Rd. | C | 8,400 | 3,700 | 8,500 | B | D |

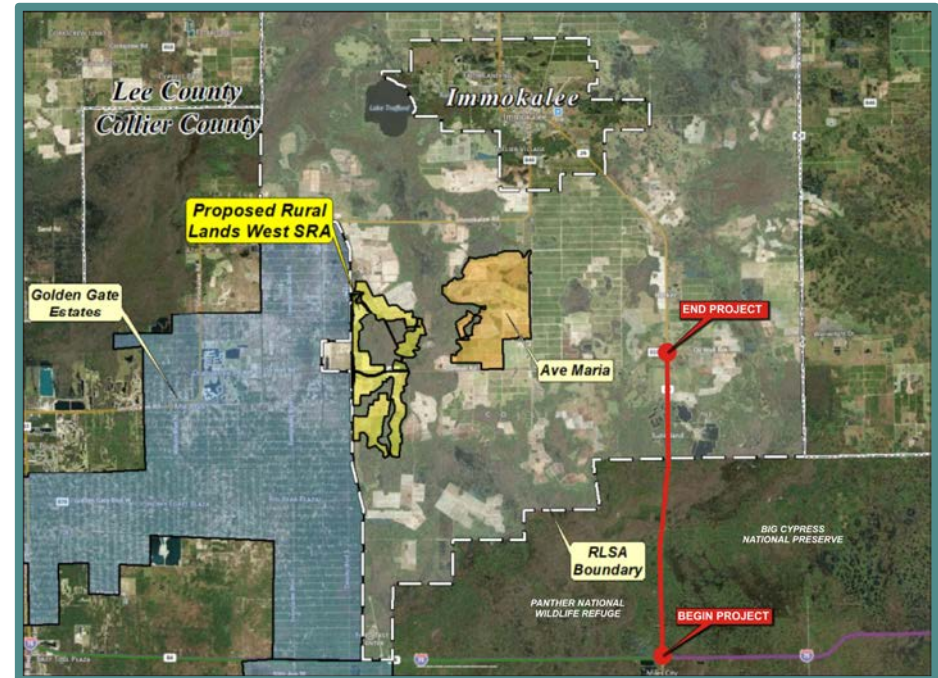


State Road 29 PD&E Study

Purpose & Need

• Transportation Demand

- Collier County
 - Population from 321,520 in 2010 to 493,781 in 2040
 - 53.6% increase
- Future Growth
 - Town of Ave Maria
 - Rural Lands West
 - Golden Gate Estates Area
 - Immokalee area
 - Designated as Rural Area of Opportunity
- Rural Economic Development Initiative
 - Governor's Initiative
 - Immokalee is a designated Rural Area of Opportunity



State Road 29 PD&E Study

Purpose & Need

- **Safety**

- Existing Crash Data (2011-2015):

- 32 Total Crashes in 5 years
 - 11 (34%) Off Road
 - 7 (22%) Animal
- 2 Fatalities in 5 years

- Based on Design Year (2045) volumes

- No Build
 - Predicted Annual Crashes 28.7
 - Total Annual Crash Costs
Approx. \$13.3M

- Build 4 Lane

- Predicted Annual Crashes 18.2

- » *Predicted Annual Crashes reduced by 36.6%*

- Total Annual Crash Costs Approx. \$8M

- » *Total Crash Costs reduced Annually by Approx. \$5.3M*



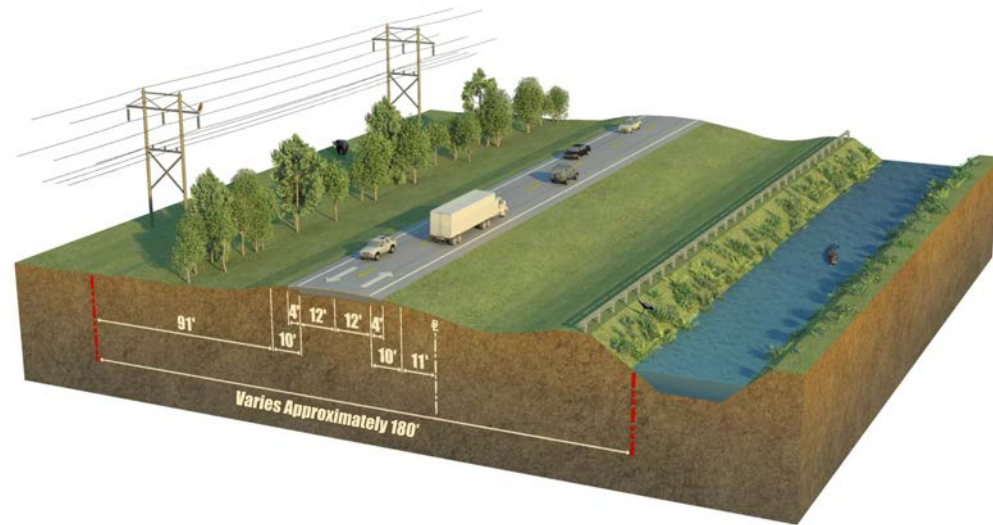
Google Street View Car passing truck on SR 29

State Road 29 PD&E Study

Alternatives Development

- **Existing SR 29**

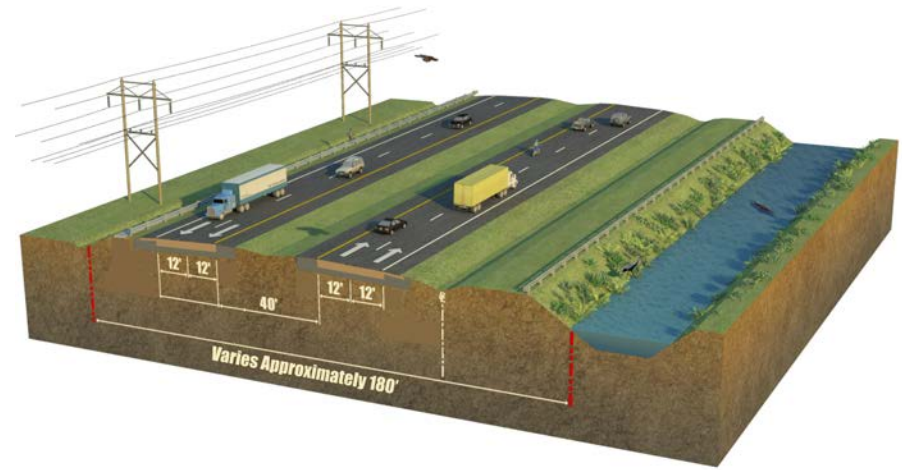
- Two 12' lanes, 10' shoulders (4' paved)
- Undivided rural principal arterial
- Design Speed: 65 mph
- Posted Speed
 - 55-60 mph
 - 45 mph at night
- Project Traffic Analysis Report (PTAR) – Completed June 2018
 - No Build (2045) LOS D
 - Build (2045) 4 Lane LOS B
 - AADT: 11,400 veh/day
- 4-lane widening is necessary to meet demand and improve safety



State Road 29 PD&E Study

Alternatives Development

- **Typical Section: 4-Lane Rural**
 - Four 12' lanes and 40' Median
 - Various 4-lane options will be evaluated
 - Evaluate Minimization to remain within existing R/W



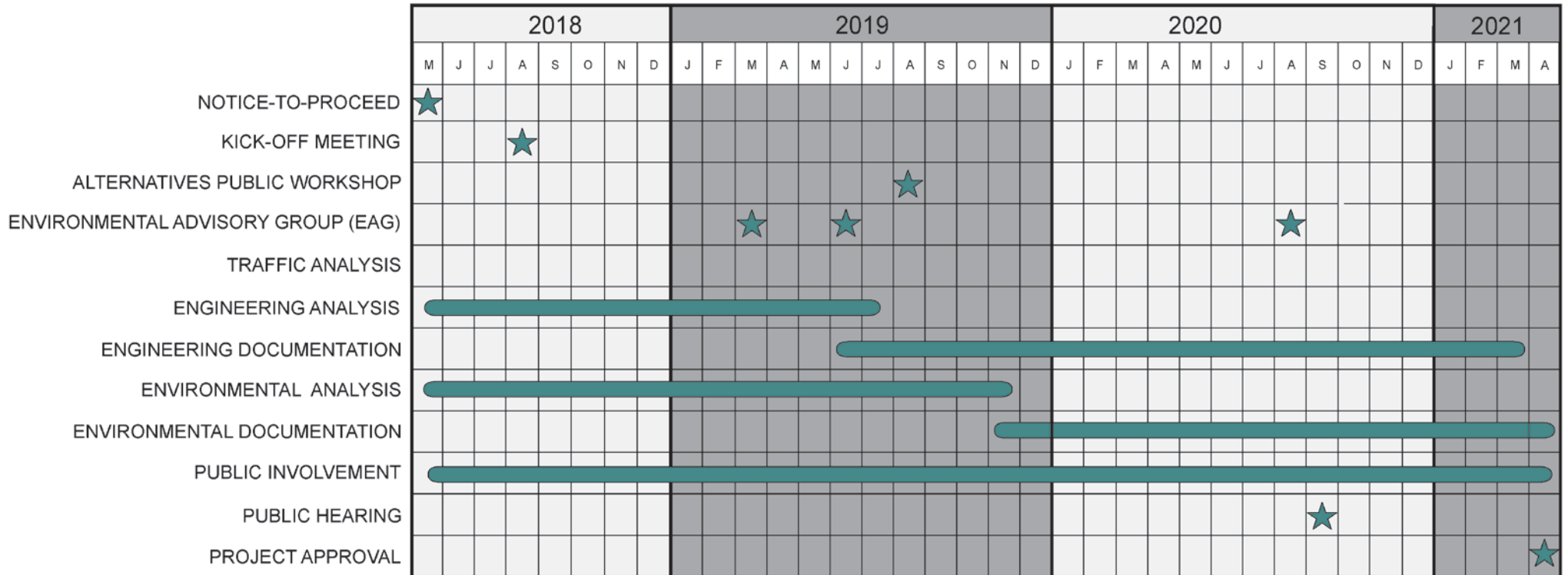
- **Evaluate Wildlife Crossings**
 - Provides opportunities for greater wildlife protection
 - Additional crossings & fencing



State Road 29 PD&E Study Schedule



SR 29 PD&E Study from I-75 to Oil Well Road



Thank You!!

For more information please contact:

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