



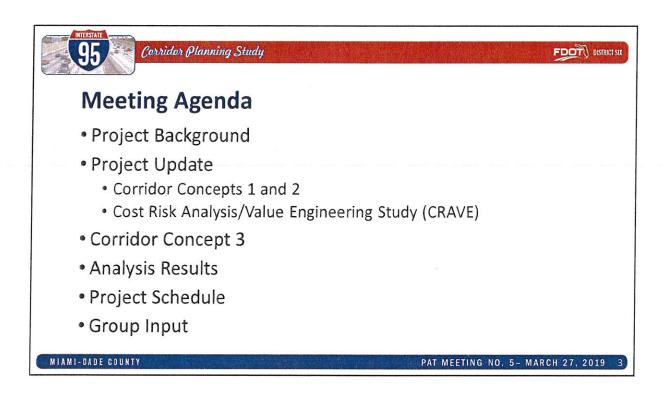


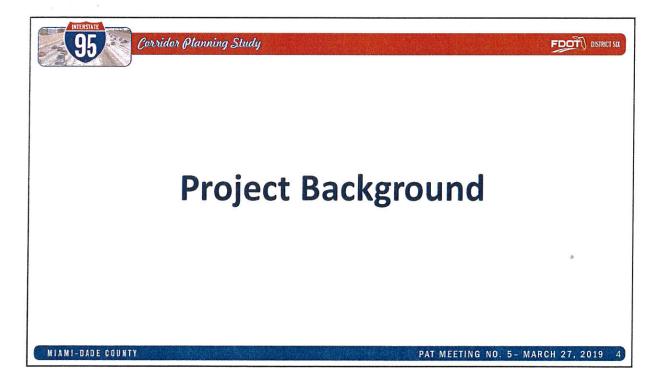
Introductions

- Project Management
 - Ken Jeffries FDOT
 - John McWilliams, P.E. Kimley-Horn
- Planning/Traffic Operations
 - Ian Rairden, P.E. Kimley-Horn
 - Gregg Letts, P.E. C2S

- Design
 - Ramon Breton, P.E. Kimley-Horn
 - Mark Bacal, P.E. Kimley-Horn
 - Victor Somohano, P.E. AECOM
 - Bayoan Ortiz, P.E. AECOM
- Public Involvement
 - Ric Katz Communikatz
 - Monica Diaz ISC Group
 - · Gerdy St. Louis ISC Group

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Project Purpose

- Develop and evaluate improvement concepts and perform planning-level operational analysis
- Evaluate study interchanges, interchange influence areas, and ramp junctions
- Identify deficiencies focusing on recurring bottlenecks
- Develop a series of proposed improvements to address existing and future demands of the corridor
- Develop improvement concepts for the mainline and system-to-system connections

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PAT MEETING NO. 5- MARCH 27, 2019



Corridor Planning Study



Project Study Area

- Entire I-95 corridor within FDOT District 6
- 17.2 Miles, 20 +/- interchanges
 - 3 system-to-system interchanges
- Interchanges, influence areas, and ramp junctions
- General purpose lanes and express lanes



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Future 2045 Express Laneage Demand

| Location | Southbound Express Lanes | | | Northbound Express Lanes | | |
|---------------------------|-----------------------------|------|------------|-----------------------------|------|------------|
| | Existing | 2045 | Difference | Existing | 2045 | Difference |
| S of Broward County Line | 1 | 2 | 1 | 1 | 2 | 1 |
| S of Ives Dairy Road | 1 | 2 | 1 | 1 | 2 | 1 |
| S of Miami Gardens Drive | 2 | 2 | 0 | 2 | 2 | 0 |
| South of GGI | 1 | 5 | 4 | 1 | 4 | 3 |
| S of NW 151st Street | 2 | 4 | 2 | 2 | 4 | 2 |
| S of NW 135th Street | 2 | 4 | 2 | 2 | 4 | 2 |
| S of SR 924 | 2 | 4 | 2 | 2 | 4 | 2 |
| S of NW 95th Street | 2 | 4 | 2 | 2 | 4 | 2 |
| S of SR 934 | 2 | 4 | 2 | 2 | 4 | 2 |
| S of NW 69th Street | 2 | 4 | 2 | 2 | 4 | 2 |
| S of NW 62nd Street | 2 | 4 | 2 | 2 | 4 | 2 |
| S of I-195 | 2 | 2 | 0 | 2 | 3 | 1 |
| S of NW 29th Street (New) | 0 | 2 | 2 | 2 | 3 | 1 |
| S of I-395 | 0 | 2 | 2 | 0 | 2 | 2 |
| S of Miami Connector | 0 | 1 | 1 | 0 | 1 | 1 |
| S of SW 8th Street | 0 | 1 | 1 | 0 | 1 | 1 |
| S of SW 26th Street | 0 | 0 | 0 | 0 | 0 | 0 |

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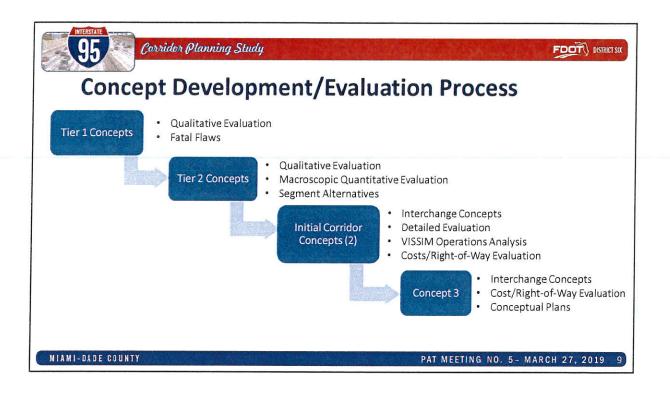
Corridor Planning Study

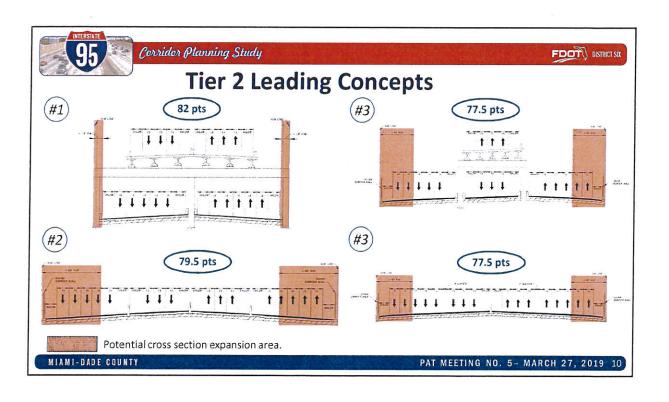


Future 2045 General Purpose Laneage Demand

| | Southbound General Purpose Lanes | | | Northbound General Purpose Lanes | | |
|---------------------------|-------------------------------------|------|------------|-------------------------------------|------|------------|
| Location | | | | | | |
| | Existing | 2045 | Difference | Existing | 2045 | Difference |
| S of Broward County Line | 4 | 4 | 0 | 4 | 4 | 0 |
| S of Ives Dairy Road | 3 | 4 | 1 | 4 | 4 | 0 |
| S of Miami Gardens Drive | 3 | 3 | 0 | 3 | 4 | 1 |
| South of GGI | 4 | 5 | 1 | 3 | 5 | 2 |
| S of NW 151st Street | 4 | 4 | 0 | 3 | 4 | 1 |
| S of NW 135th Street | 4 | 4 | 0 | 4 | 4 | 0 |
| S of SR 924 | 4 | 4 | 0 | 4 | 4 | 0 |
| S of NW 95th Street | 4 | 4 | 0 | 4 | 4 | 0 |
| S of SR 934 | 4 | 4 | 0 | 4 | 4 | 0 |
| S of NW 69th Street | 4 | 4 | 0 | 4 | 4 | 0 |
| S of NW 62nd Street | 4 | 4 | 0 | 4 | 4 | 0 |
| S of I-195 | 3 | 5 | 2 | 3 | 4 | 1 |
| S of NW 29th Street (New) | 4 | 5 | 1 | 3 | 4 | 1 |
| S of I-395 | 3 | 4 | 1 | 3 | 4 | 1 |
| S of Miami Connector | 3 | 3 | 0 | 3 | 4 | 1 |
| S of SW 8th Street | 2 | 2 | 0 | 3 | 3 | 0 |
| S of SW 26th Street | 2 | 2 | 0 | 2 | 2 | 0 |

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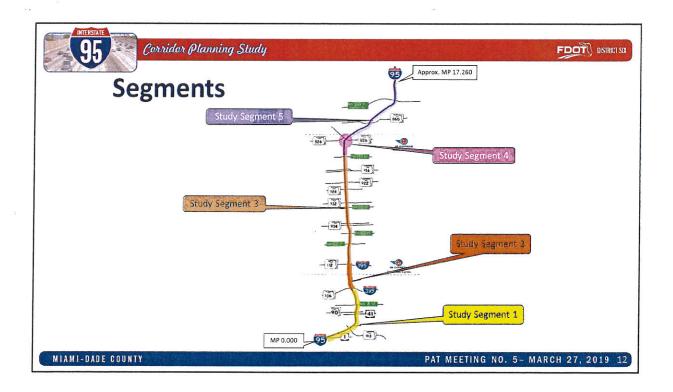


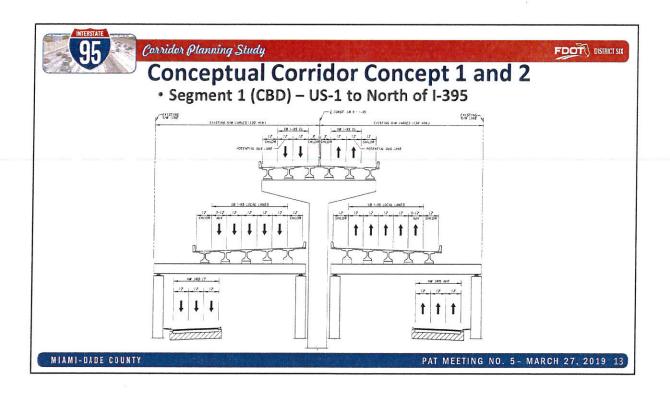


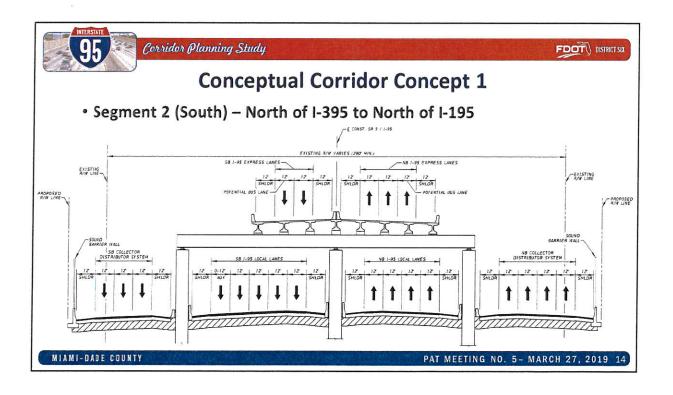
Conceptual Alternatives

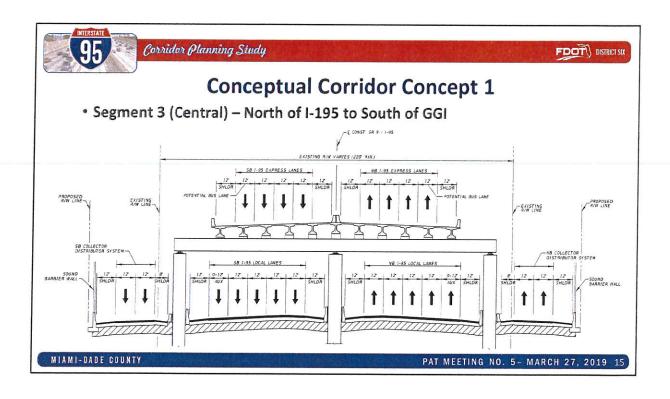
- Corridor divided into five (5) segments:
 - Segment 1 SR 5/US 1/Dixie Hwy to North of I-395/SR 836 (CBD)
 - Segment 2 North of I-395/SR 836 to North of I-195/SR 112 (South)
 - Segment 3 North of I-195/SR 112 to South of GGI (Central)
 - Segment 4 Golden Glades Interchange (GGI)
 - Segment 5 North of GGI to Broward County Line (North)
- Two (2) Leading Tier 2 concepts applied to each segment
- No typical section for Segment 4 (GGI)

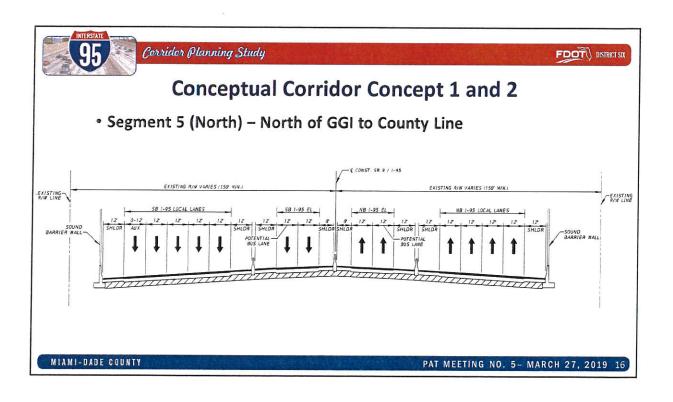
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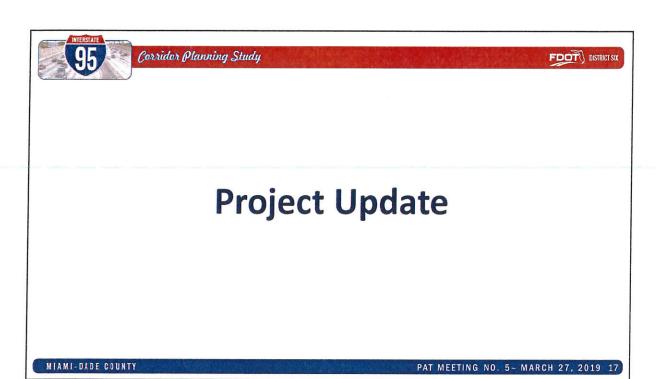


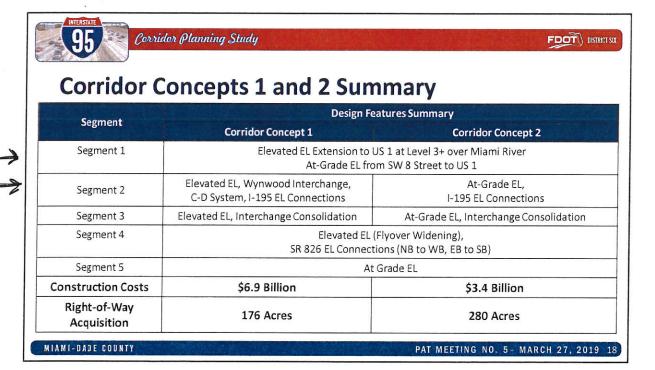














Corridor Concepts 1 and 2 - Feedback/Concerns

- Overall construction costs for Concept 1
- Right-of-way acquisition impacts/costs for Concept 2
- Maintenance of traffic (MOT) during construction for Concept 1
- Potential programmed 'throw away' improvements for both concepts
- Current regional emphasis on transit infrastructure investments (SMART Plan)

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Cost Risk Analysis/Value Engineering (CRAVE) Study

- Conducted May/June 2018
- Estimated risk-loaded cost between \$7 and \$9 billion
- Identified 32 independent project risks
- Identified 79 potential VE options for project
- Identified 16 final VE recommendations
- Approximate projected cost savings of \$2.5 billion

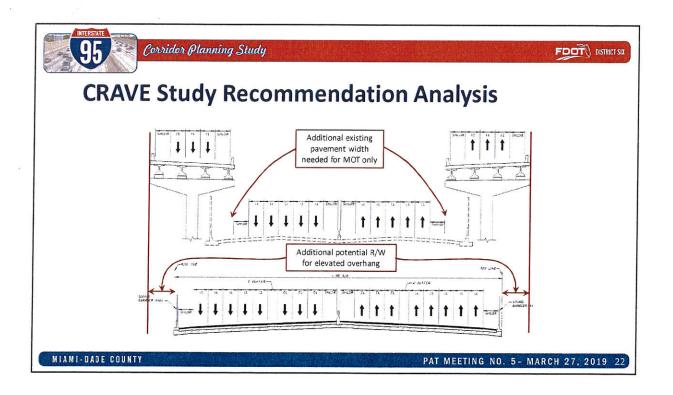
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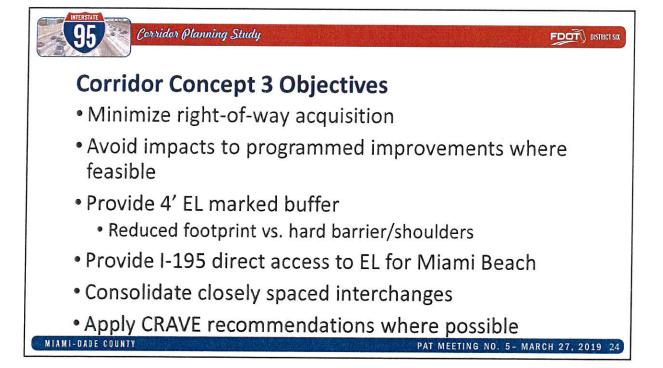
Key CRAVE Study Recommendations

- Eliminate 'throw away' programmed improvements
- Consider constructing elevated EL on separate structures on outside of GPL
- Minimize right-of-way acquisition in Segment 1
- Consider a separate connection from SR 836 EB to SR 970/ Downtown Distributor

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Overall Corridor Design Goals - Mainline

- Meet AASHTO standards where feasible
- Add EL capacity (3NB/3SB) from I-195 to GGI (outside elevated vs. inside at-grade)
- Widen GGI HOV Flyover to (2NB/2SB)
- Provide continuous EL section from GGI to Broward County (2NB/2SB)
- Harmonize with existing programmed improvements at GGI, SR 924 East, SW 7th/8th Street, I-395/SR 836

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Overall Corridor Design Goals - EL Network

- Construct missing EL direct connections to/from Miami Beach at I-195 (SB to EB and WB to NB) and to/from SR 826 (NB to WB and EB to SB)
- Maintain existing EL south terminus at south of SR 112/I-195
- Minimize right-of-way acquisition for accommodation of the EL network

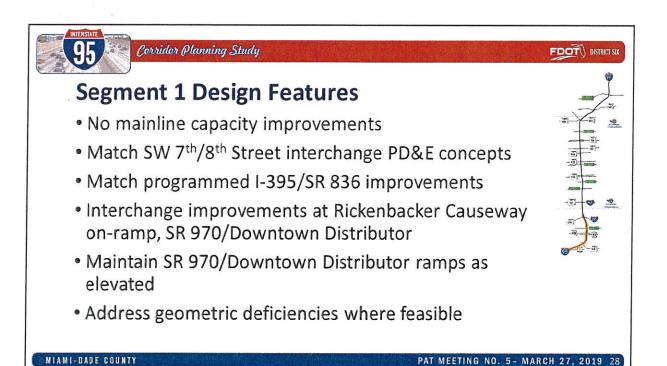
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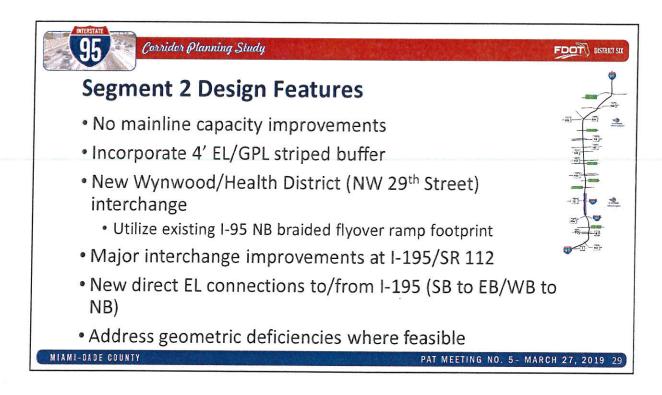


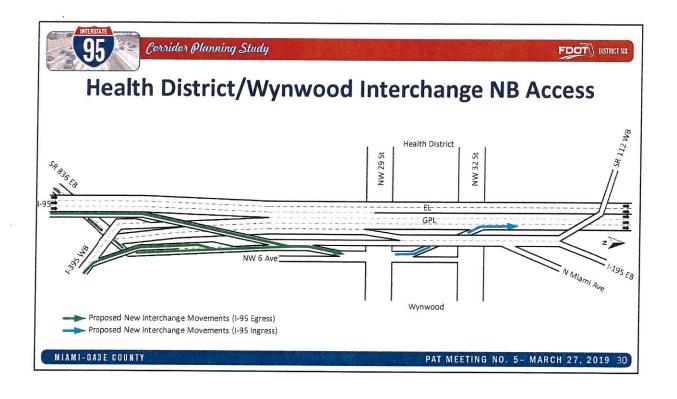
Overall Corridor Design Goals – Interchanges

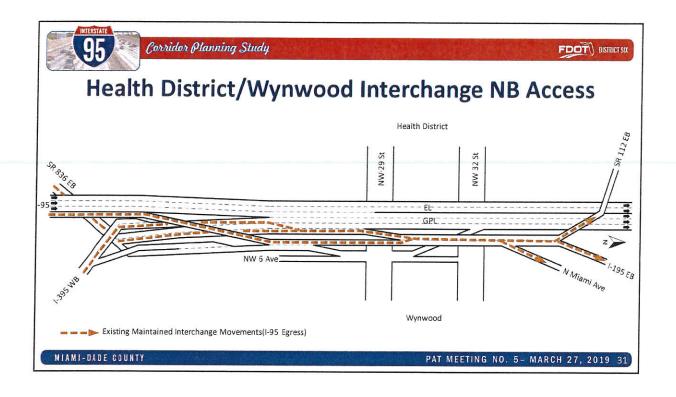
- Construct interchange (full/partial) at Wynwood/Health District in proximity to NW 29th Street
- Improve Downtown area ramps where feasible
- Consolidate/Eliminate interchanges where feasible
- Improve remaining corridor interchanges while minimizing rightof-way acquisition

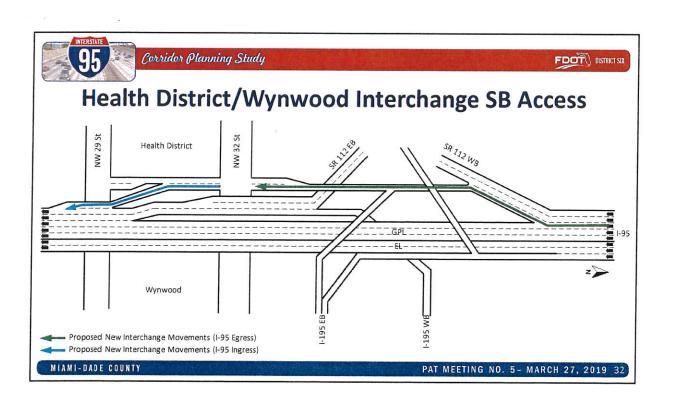
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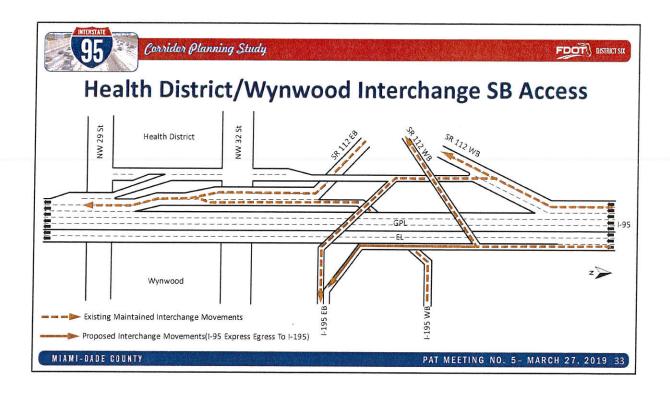


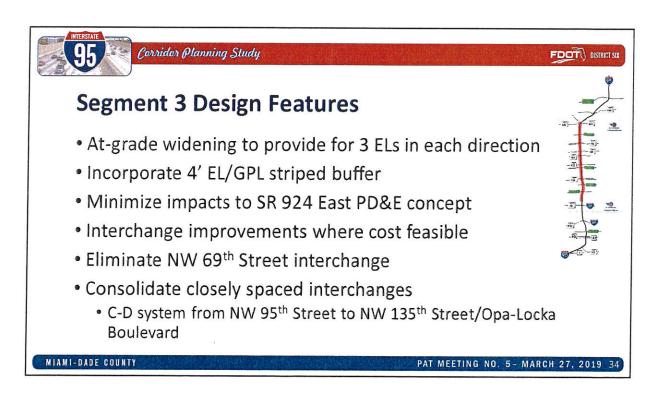


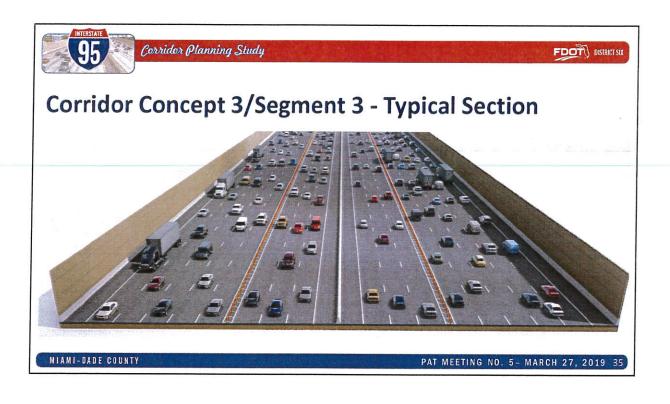


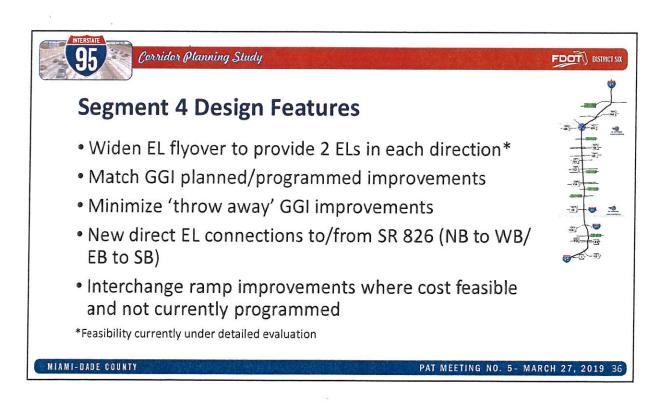








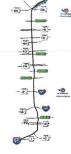




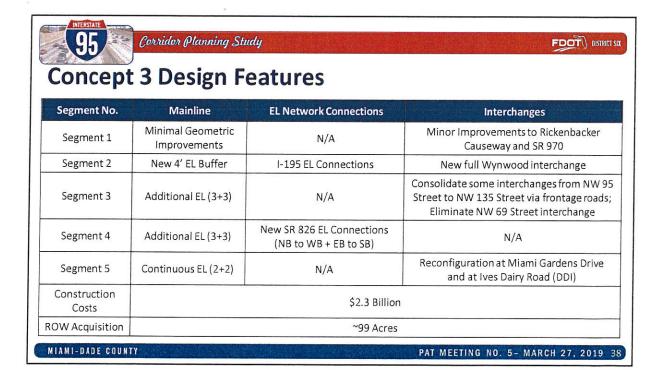


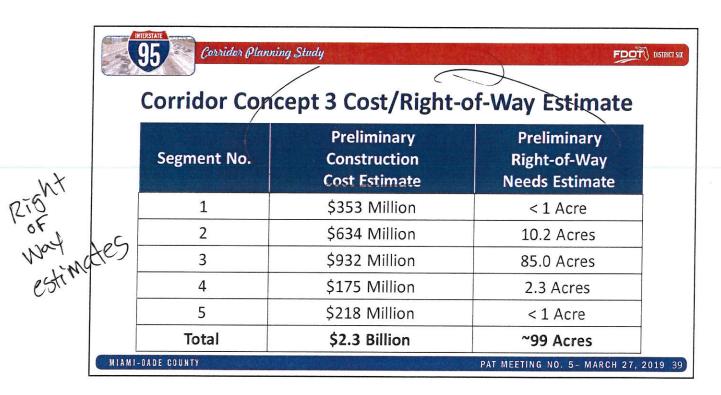
Segment 5 Design Features

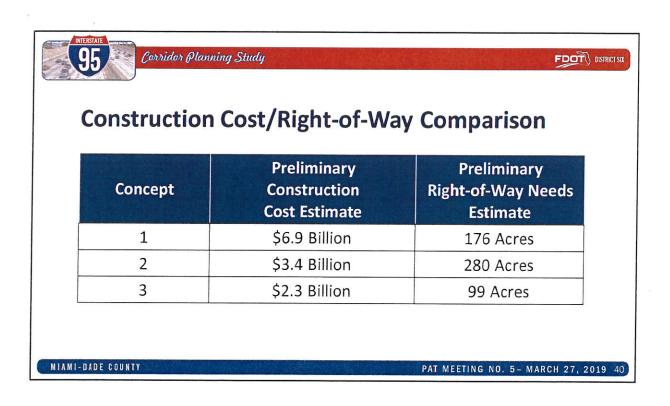
- At-grade widening to provide for continuous 2 ELs in each direction
- Interchange improvements at Miami Gardens Drive and Ives Dairy Road (DDI)
- Improve GPL SB merge area at Ives Dairy Road
- · Address geometric deficiencies where feasible



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Overall Corridor Concept Comparison

| Corridor Concept | Capacity/Safety Improvement | Community Impacts | Construction Costs | Right-of- Way Needs |
|---------------------|--------------------------------|----------------------|-----------------------|------------------------|
| 1 | High | High | High | Medium |
| 2 | High | High | Medium | High |
| 3 | Medium | Low | Low | Low |

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FDOT DISTRICT SIX

Analysis Results

- Year 2045 capacity needs along corridor are substantial even with regional transit investment
- Future improvements must balance capacity needs, community impacts, and fiscal constraints
- Corridor Concepts 1 and 2 more fully address capacity/safety improvements, but cause substantial community impacts and require significant funding
- Corridor Concept 3 provides moderate capacity improvement and addresses safety issues while reducing community impacts/overall costs

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Project Schedule

- Project Advisory Team Meeting #5 March 2019
- Public Officials Outreach March to May 2019
- Public Workshops May 2019
- Conceptual Design Plan Completion June 2019
- Final Report August 2019
- PD&E* Advertisement March 2020
- PD&E* Notice to Proceed January 2021

* PD&E for north section (NW 151 St to Broward County Line). PD&E for central and south section programmed for FY 2022

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