

I-85 Express Lanes



Presentation

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Steven W. Sheffield
Senior Transportation Engineer
State Road and Tollway Authority

Agenda

- Project Overview
- Transit Enhancements
- I-85 Express Lanes: Technology and Enforcement
- Schedule
- Accomplishments
- Questions

Congestion Reduction Demonstration Grant

- \$110 million grant from the federal government
- Phase 1 focuses on 16 miles of I-85
- Long-term goal is to regionally implement an integrated system of
 - Enhanced Transit Service
 - High Occupancy Toll (HOT) lanes
 - Innovative Technologies



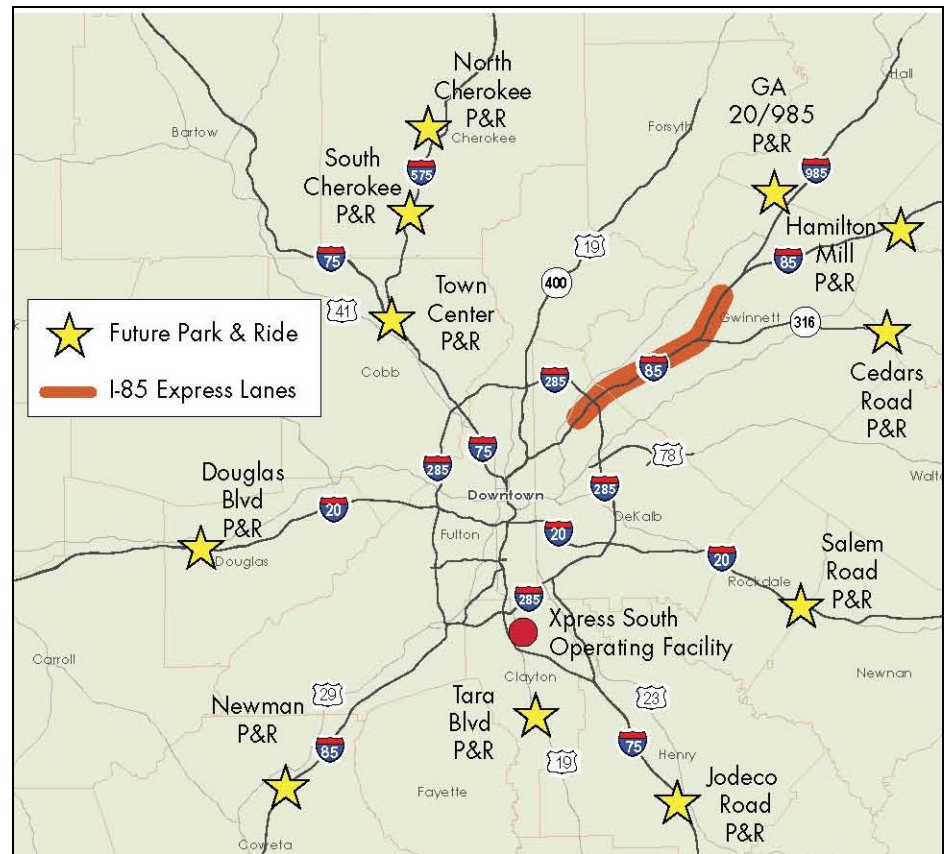
Major Project Benefits

- Commuter Choice
- Transit Enhancements
- Travel Time Reliability



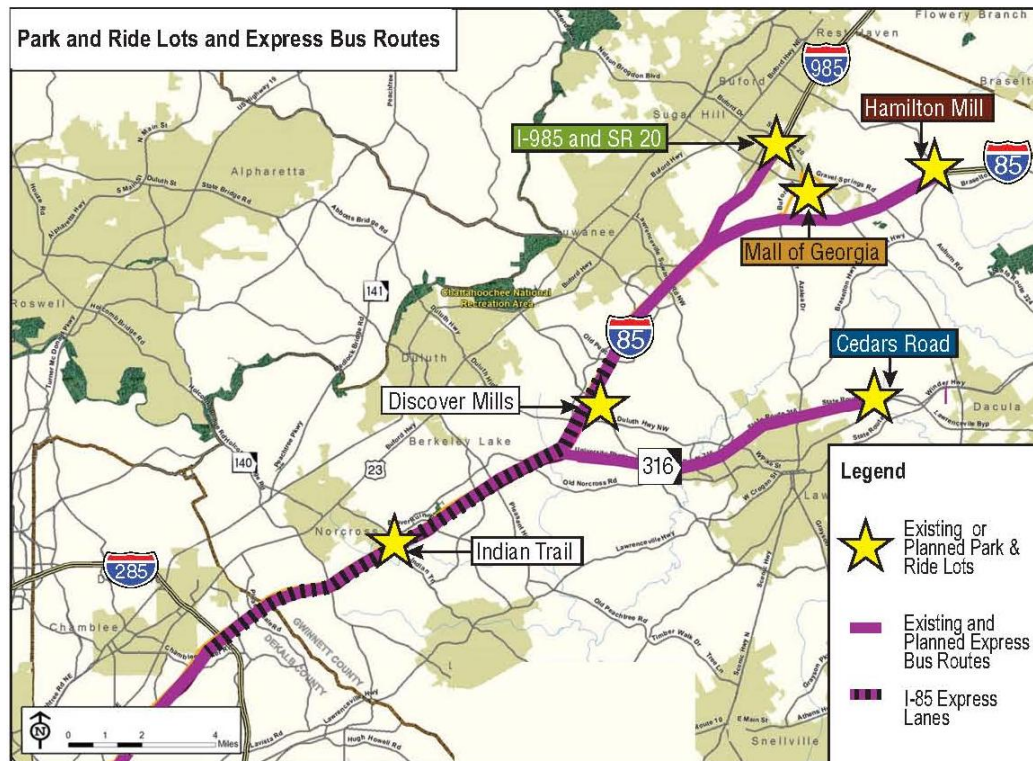
Regional Transit Enhancements

- \$122 million of transit investments
- 11 new or expanded park & rides
- 82 new passenger coach buses
- South Xpress Operating Center
- New Xpress bus service



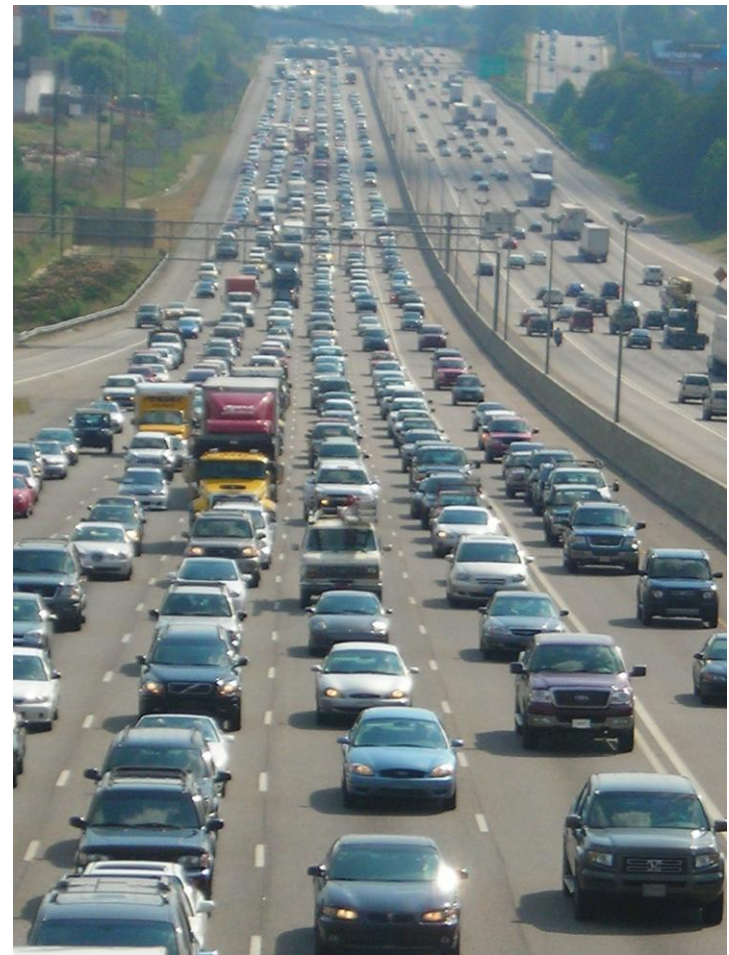
I-85 Corridor Specific Transit Enhancements

- 36 new passenger coach buses
- 3 new or expanded park & rides
- Xpress bus service from the Mall of Georgia



Why I-85?

- By 2012, existing HOV lanes would otherwise not offer reliable trip times due to congestion
- High number of directional commuters support multi-modal approach

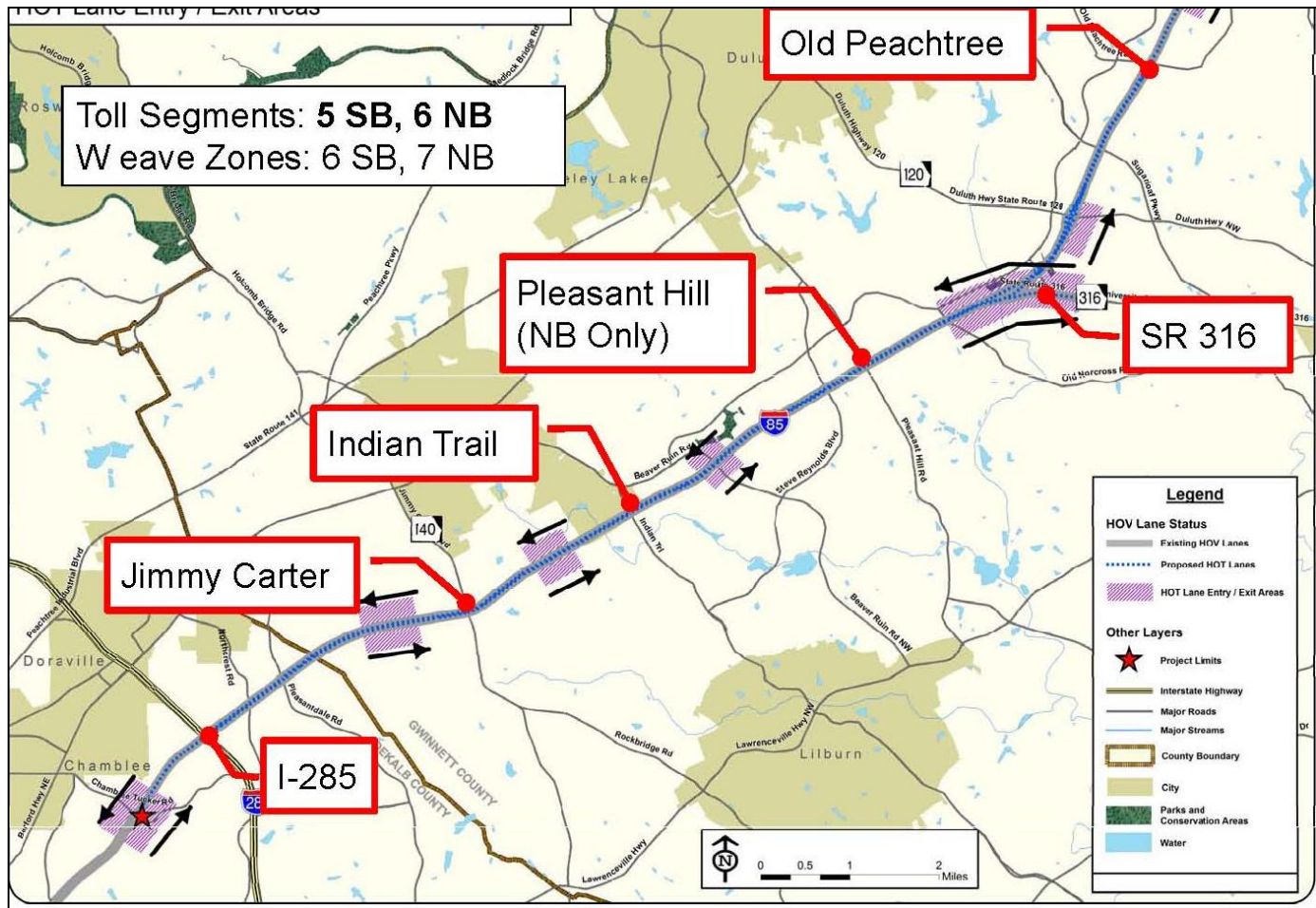


What is a HOT Lane?

- High Occupancy Toll (HOT) lanes like the I-85 Express Lanes use a combination of occupancy requirement and tolling (i.e. pricing) to manage traffic demand
- Maximizes usage of a limited peak period resource
- HOV to HOT conversion is relatively inexpensive and quick compared to adding new capacity



I-85 Express Lanes Exit/Entry Areas



Dynamic Pricing

- Express lane will be dynamically priced, so toll will fluctuate based on congestion levels
- Dynamic pricing enables the Express Lane to provide reliable travel times with peak hour speeds averaging 45+mph

Non-Tolled	Tolled	Prohibited
<ul style="list-style-type: none">• Motorcycles• Alternative Fuel Vehicles• Over-the-road buses• 3 or more person carpools• Emergency vehicles	<ul style="list-style-type: none">• Single driver• 2 person carpools	<ul style="list-style-type: none">• Trucks with more than 6 wheels

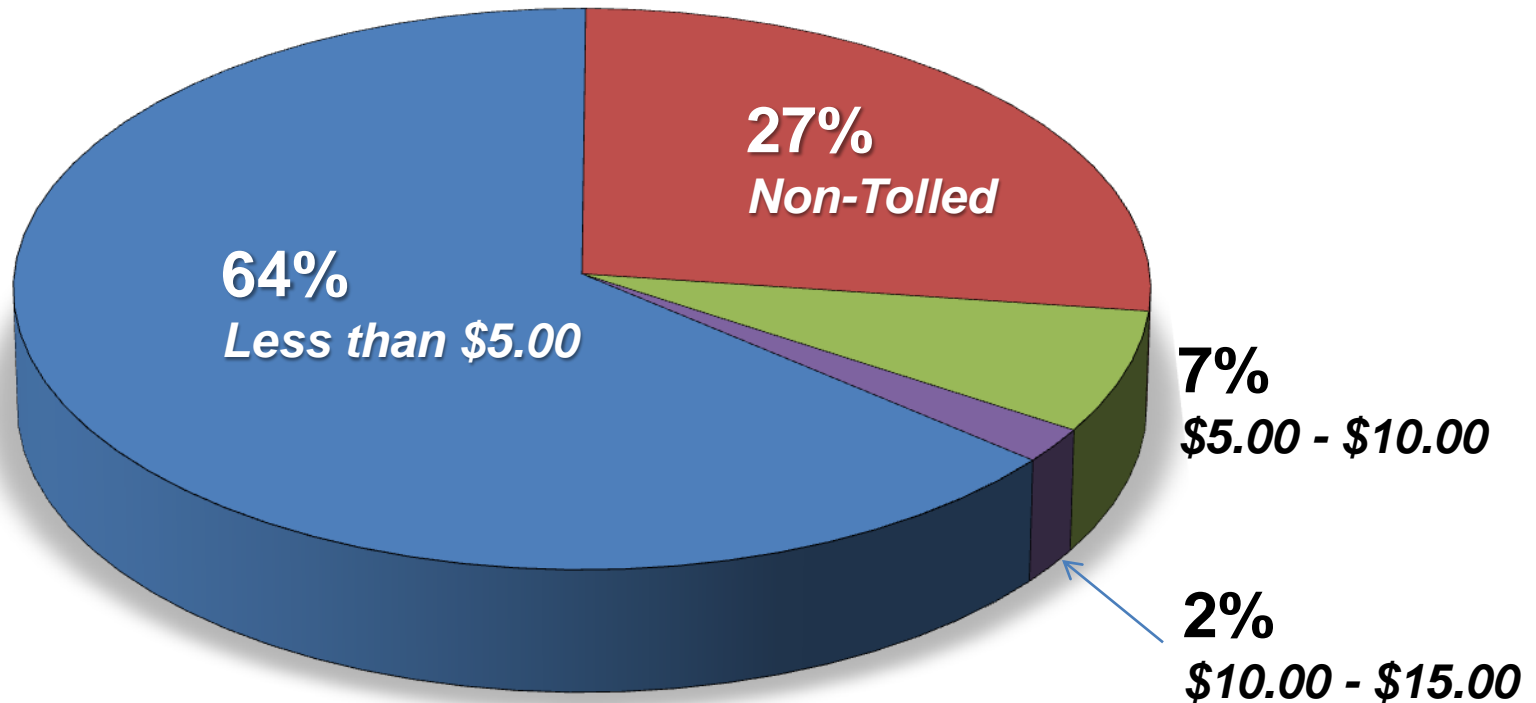


Pricing & Toll Range

- The estimated average trip length of 6-7 miles, with typical toll prices ranging from \$.60 to \$6.00 depending on congestion
- It is estimated that over 90% of customers will pay less than \$5.00 for their Express Lane trip
- It is estimated that over 25% of customers will use the Express Lane toll free
- Express Lanes will operate 24/7

Pricing & Toll Range, cont.

Estimated Weekday Average Toll Rate *Opening Year 2011*



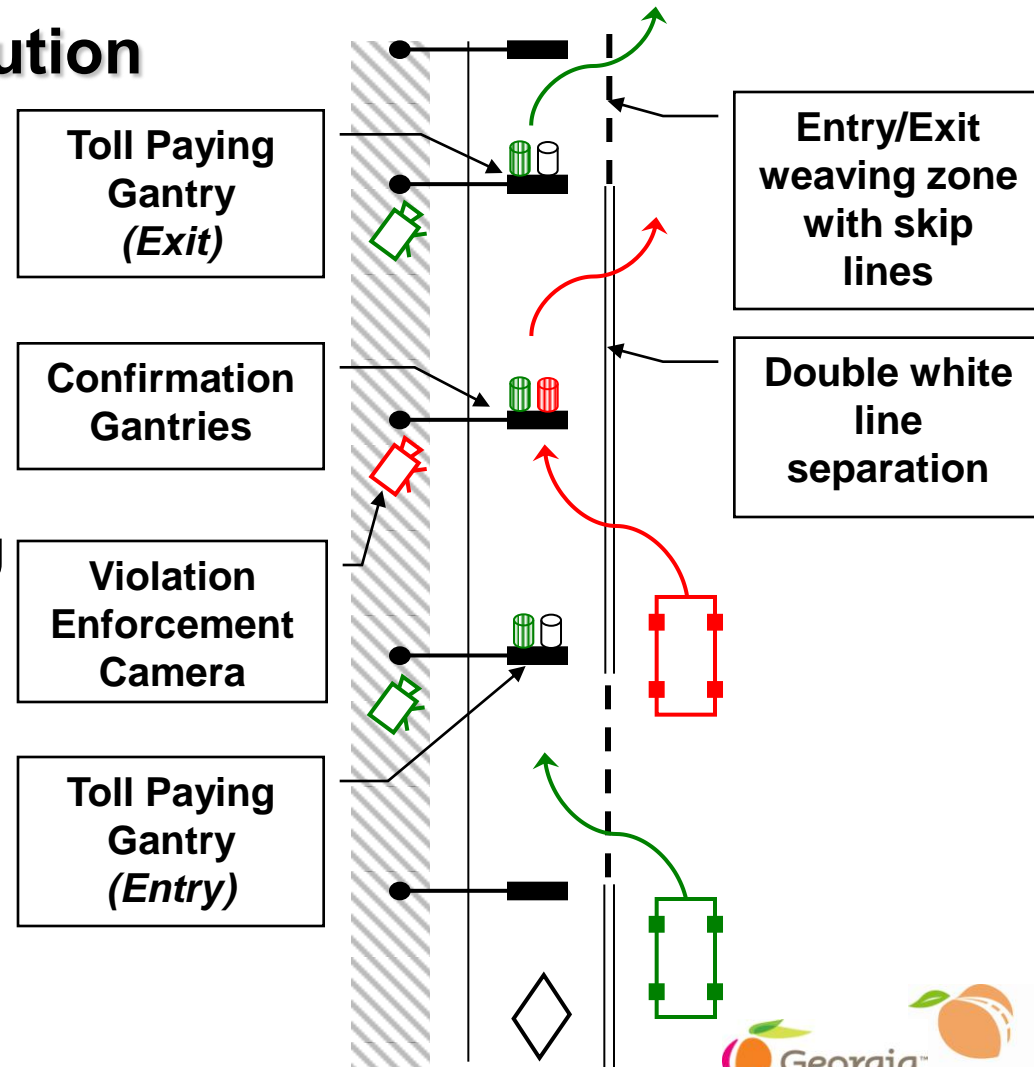
Peach Pass

- Peach Passes will consist of sticker tags that adhere to vehicle windshields, as well as hardened license plate tags for vehicles with metallic glass windshields, both using 6c technology
- All Express Lane users will need to register for a Peach Pass starting in April
- Tolls are automatically deducted from account when using the Express Lanes
- No need to stop at toll booths

Gantry Controlled Access (GCA)

“Invisible Barrier” solution

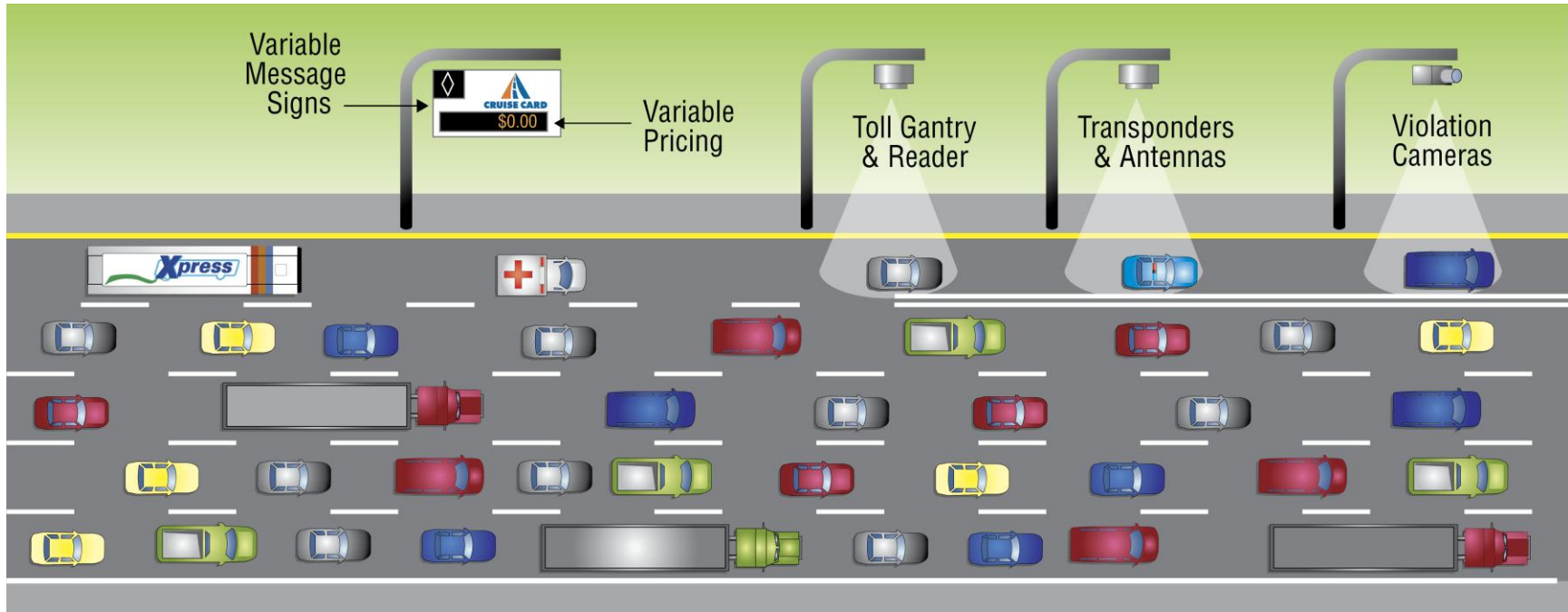
- Overhead tolling system detects vehicle entry/exit
- Gantry spacing deters dodging into the HOT lane
- Gantry to gantry monitoring detects entry/exit violations
- Automatic toll violation notices
- Indirectly enforces double white line weaving



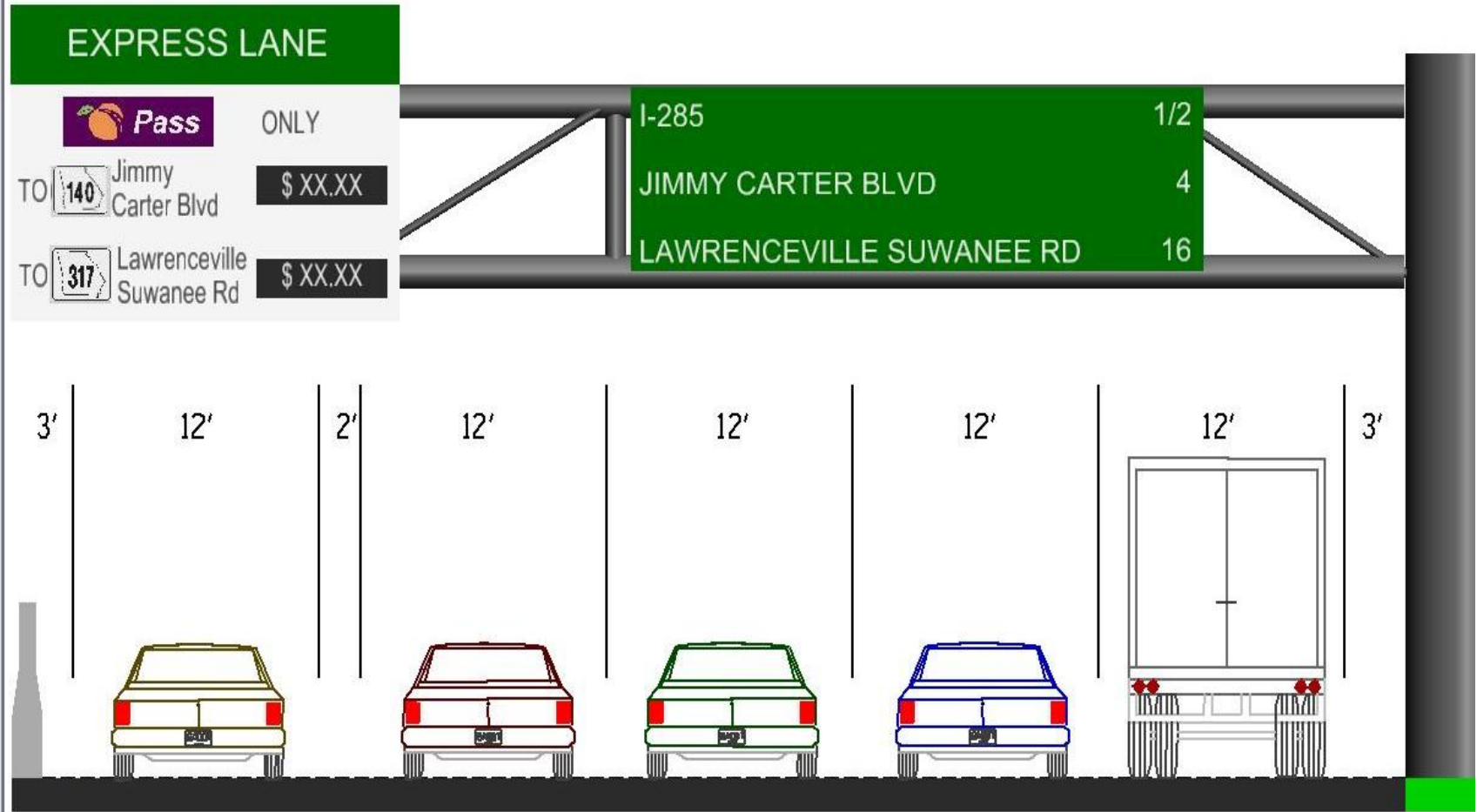
Enforcement

- Gantry Controlled Access
 - Tolling system tracks violations
- 2 types of toll evasion violations:
 - Non-customer – not registered or no transponder
 - Toll Facility Violation/DWL – “Improper entry/exit”
- Tolling system applies a violation amount to a trip, limited to \$25/trip

Innovative Solutions



Proposed Typical Section



Project Progress and Accomplishments to Date

- Secured NEPA Finding of No Significant Impact (FONSI) environmental permit
- Procured 6c protocol transponder and AVI equipment
- Procured the Tolling Systems Integrator (ETC)
- Procured the Civil Construction Contractor (WFT)
- Developed the National Evaluation Plan for monitoring and performance of the Atlanta CRD Project
- Developed CRD Project Management Plan (PMP)
- Fostered cooperation with other users of 6c transponder technology

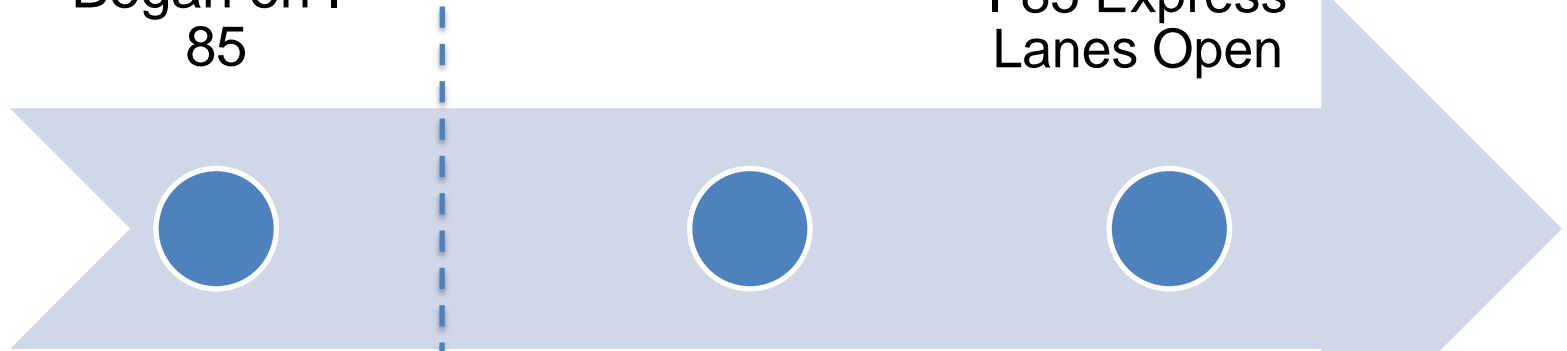
Schedule

August 2010:

Project
Construction
Began on I-
85

Summer 2011:

I-85 Express
Lanes Open



TODAY

April 2011:

Peach Pass
Transponders
Available

QUESTIONS?

