

Radial Freeway

Strategic
Improvement
Program





I-85 South

Corridor Resource Guide

Radial Freeway Strategic Improvement Plan





Radial Freeway
Strategic Improvement Plan

Introduction



This Corridor Resource Guide documents the current (2007) and forecast (2030) travel conditions along I-85 from I-285 to the US 29/SR 14. The Guide also provides detail on planned and programmed projects that are included in the Atlanta Region's *Envision6* RTP along this section of I-85.



Radial Freeway

Strategic Improvement Plan

Corridor Overview

Segment 1: From I-285 to SR 138

Length = 6 miles

Average Interchange Spacing = 2.0

4 GP Lanes, No HOV lane

Parallel Corridors: US29/SR 14

Segment 2: From SR 138 to SR 154

Length = 13 miles

Average Interchange Spacing = 4.33

3 GP Lanes, No HOV lane

Parallel Corridors: US 29/SR 14

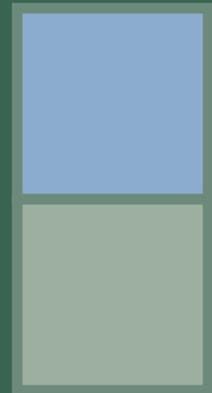
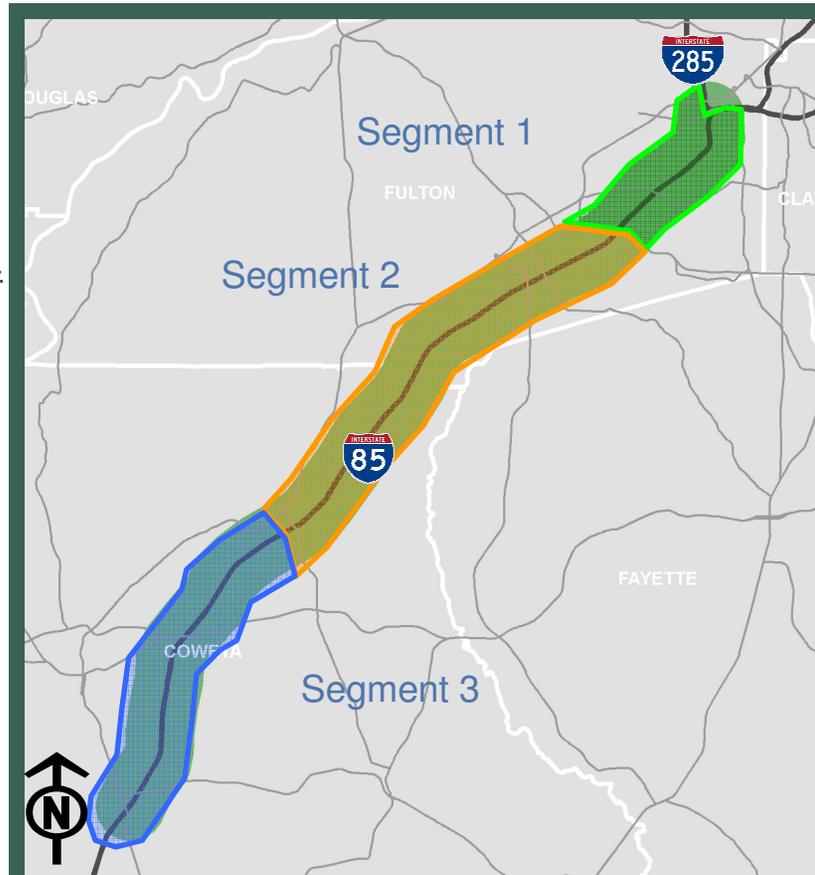
Segment 3: From SR 154 to US 29/SR 14

Length = 8 miles

Average Interchange Spacing = 4.0

2 GP Lanes, No HOV lane

Parallel Corridors: SR 14



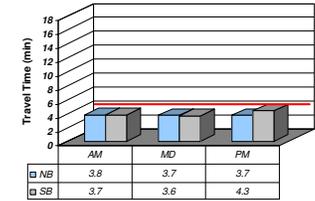
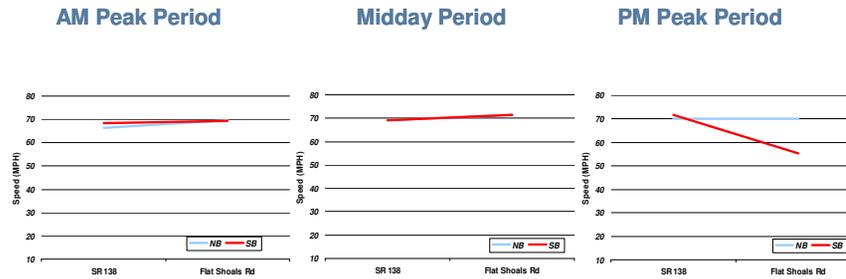


Radial Freeway
Strategic Improvement Plan

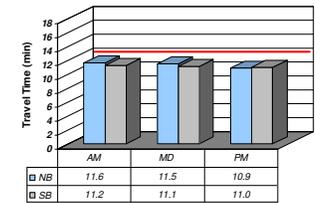
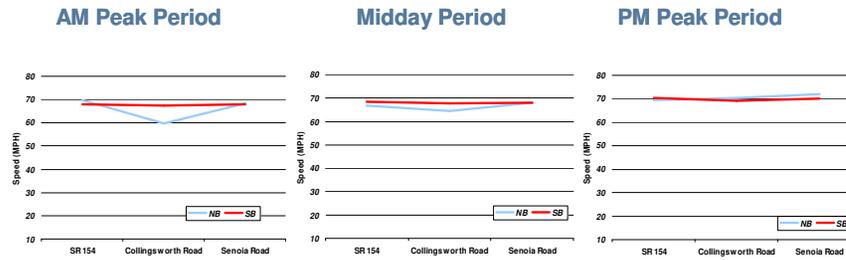
EXISTING TRAVEL SPEED 1

EXISTING TRAVEL TIME 1

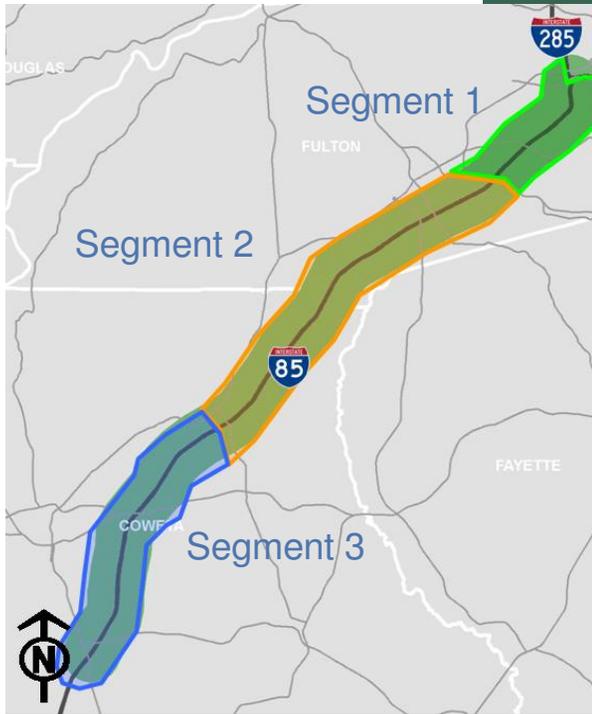
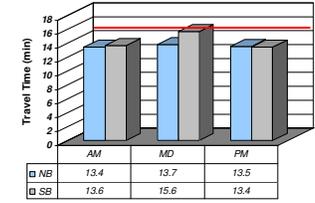
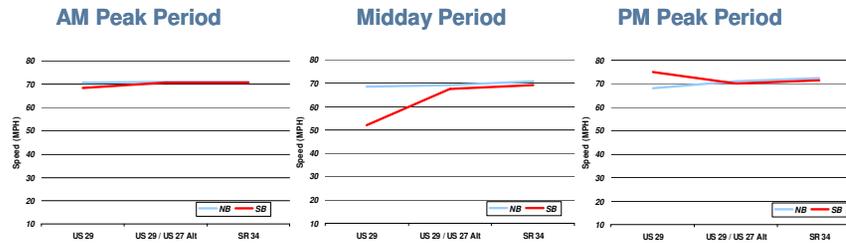
Segment 1



Segment 2



Segment 3

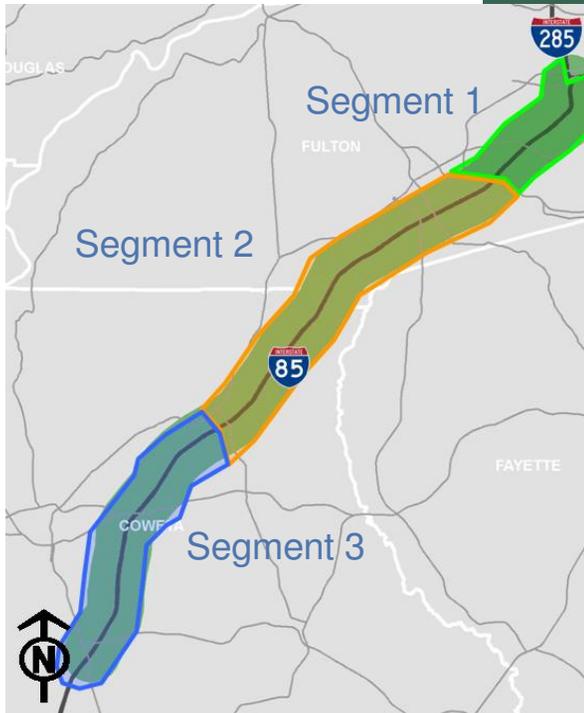


AM Period = 7:00 AM to 10:00 AM
Midday Period = 10:00 AM to 3:00 PM
PM Period = 3:00 PM to 7:00 PM

1 – Based on 2007 Field Data



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Strategic Improvement Plan



**TRAVEL TIME INDEX
(TTI) ¹**

**DURATION OF
CONGESTION ¹**

**VOLUME/ CAPACITY
(V/C) RATIO ¹**

S
e
g
m
e
n
t
1

- 2005 TTI = 1.83
 - 2030 TTI = 3.08
 - Percent Increase = 68%
- CMTF Target TTI = 1.35*

- 2005 Daily Congestion = 1.60 hours
- 2030 Daily Congestion = 4.09 hours
- Percent Increase = 155%

- 2005 V/C Ratio = 0.90
- 2030 V/C Ratio = 1.05
- Percent Increase = 17%

S
e
g
m
e
n
t
2

- 2005 TTI = 1.44
 - 2030 TTI = 2.41
 - Percent Increase = 67%
- CMTF Target TTI = 1.35*

- 2005 Daily Congestion = 0.00 hours
- 2030 Daily Congestion = 3.69 hours
- Percent Increase = N/A

- 2005 V/C Ratio = 0.76
- 2030 V/C Ratio = 0.98
- Percent Increase = 29%

S
e
g
m
e
n
t
3

- 2005 TTI = 1.13
 - 2030 TTI = 1.28
 - Percent Increase = 13%
- CMTF Target TTI = 1.35*

- 2005 Daily Congestion = 0.00 hours
- 2030 Daily Congestion = 0.14 hours
- Percent Increase = N/A

- 2005 V/C Ratio = 0.53
- 2030 V/C Ratio = 0.65
- Percent Increase = 22%



TTI = Congested Travel Time / Free Flow Travel Time
Congestion Management Task Force (CMTF)
Target TTI = 1.35

Duration of congestion represents the amount of time transportation networks are congested
Daily Congestion = Number of Congested Hours (Above an "Acceptable" V/C of 0.90)

¹ – Based on Model Data (Envision 6)



Radial Freeway
Strategic Improvement Plan

Programmed and Planned Project Types

Envision6 Project Types

- Roadway Operational Upgrades
- Roadway Maintenance / Operations
- ITS-Smart Corridor
- General Purpose Roadway Capacity
- Managed Lanes - Auto/Bus and Truck
- Transit Facilities
- Bridge Capacity
- Bridge Upgrade
- **Interchange Capacity***
- **Interchange Upgrade***
- Fixed Guideway Transit Capital
- Studies



*Project types for I-85 S



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Strategic Improvement Plan

Envision6 Programmed and Planned Projects

Segment 2: From SR 138 to SR 154

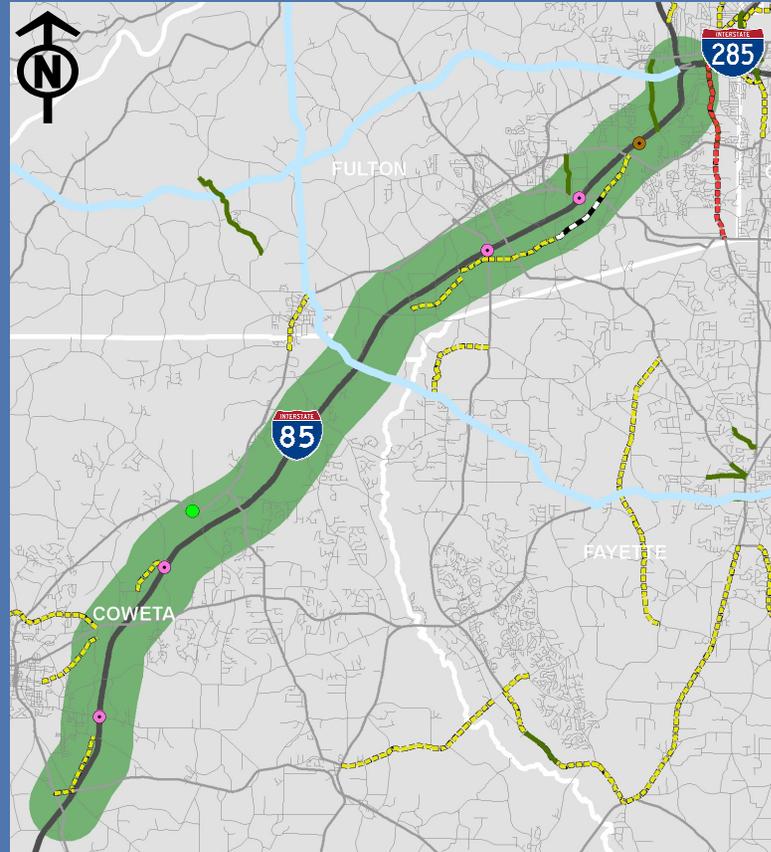
Interchange Upgrades

- I-85 at SR 138
- I-85 at SR 74

Segment 3: From SR 154 to US 29/SR 14

Interchange Capacity

- I-85 at Proposed Amlajack Boulevard Extension
- I-85 at Poplar Road



| Legend | |
|--------|---|
| | Bridge Capacity; Bridge Upgrade |
| | General Purpose Roadway Capacity |
| | Interchange Capacity; Interchange Upgrade |
| | Managed Lanes (Auto/Bus) |
| | Pedestrian Facility |
| | Roadway Operational Upgrades |
| | Studies |
| | Transit Facilities |
| | Bridge Capacity; Bridge Upgrade |
| | General Purpose Roadway Capacity |
| | Interchange Capacity; Interchange Upgrade |
| | Managed Lanes (Auto/Bus) |
| | Multi-Use Bike / Ped Facility |
| | Roadway Maintenance/Operations/Upgrades |
| | Studies |
| | Transit Facilities |
| | ITS-Smart Corridor; ITS-Other |





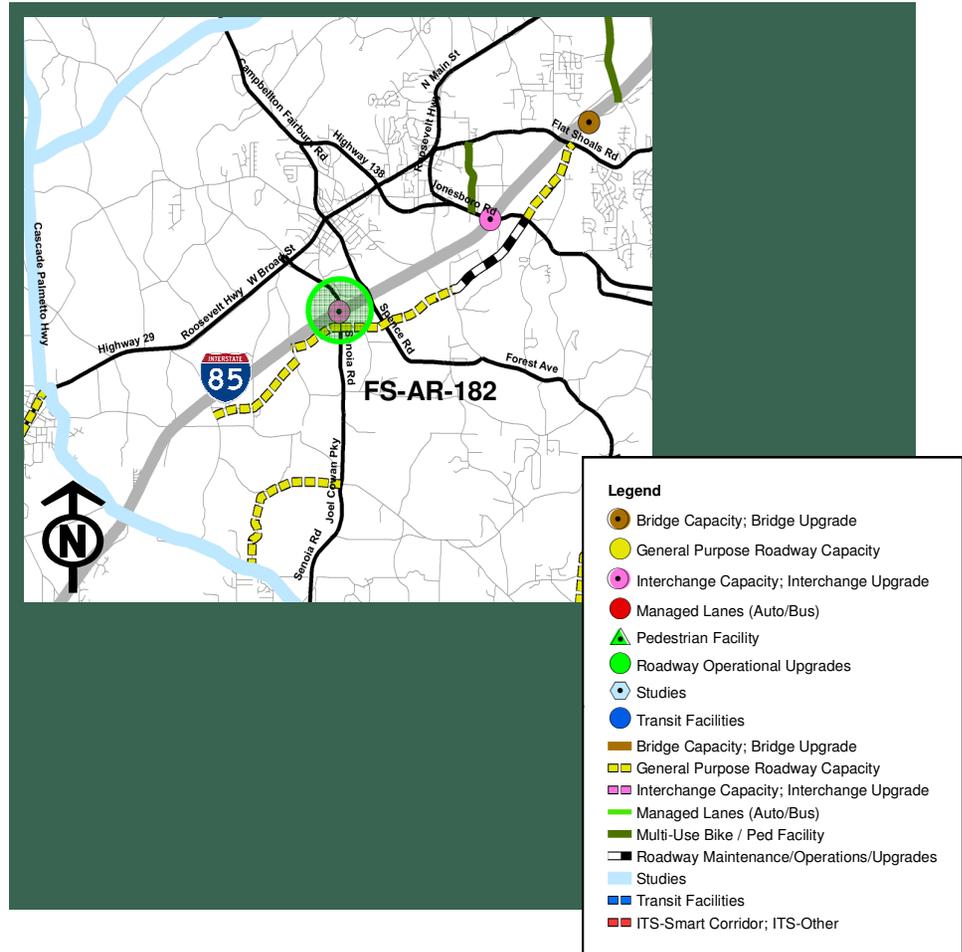
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Strategic Improvement Plan

Envision6 Programmed and Planned Projects

I-85 at SR 74 (Senoia Road)
 ARC ID – FS-AR-182
 Type – Interchange Upgrade
 Status- Long Range
 Phase – Preliminary Engineering
 Fiscal Year – LR 2021 - 2030
Total Phase Cost
 \$1,000,000

I-85 at SR 74 (Senoia Road)
 ARC ID – FS-AR-182
 Type – Interchange Upgrade
 Status- Long Range
 Phase – Construction
 Fiscal Year – LR 2021-2030
Total Phase Cost
 \$20,000,000

Project Summary
 Congressional District – 13
 Sponsor – GDOT
 Jurisdiction – Fulton (South)
Total Project Cost
 \$21,000,000





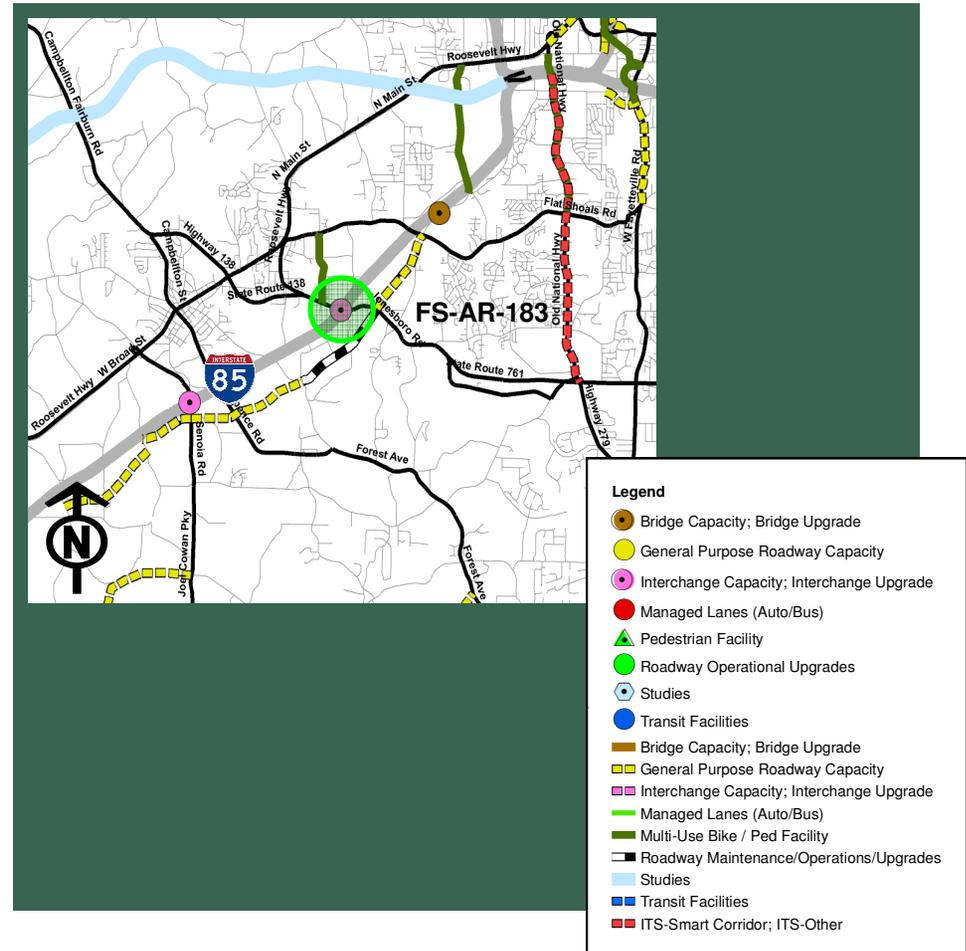
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Strategic Improvement Plan

Envision6 Programmed and Planned Projects

I-85 at SR 138 (Jonesboro Road)
 ARC ID – FS-AR-183
 Type – Interchange Upgrade
 Status – Long Range
 Phase – Preliminary Engineering
 Fiscal Year – LR 2021-2030
Total Phase Cost
 \$1,000,000

I-85 at SR 138 (Jonesboro Road)
 ARC ID – FS-AR-183
 Type – Interchange Upgrade
 Status – Long Range
 Phase – Construction
 Fiscal Year – LR 2021-2030
Total Phase Cost
 \$20,000,000

Project Summary
 Congressional District 13
 Jurisdiction - Fulton (South)
 Sponsor – GDOT
Total Project Cost
 \$21,000,000





Radial Freeway
Strategic Improvement Plan

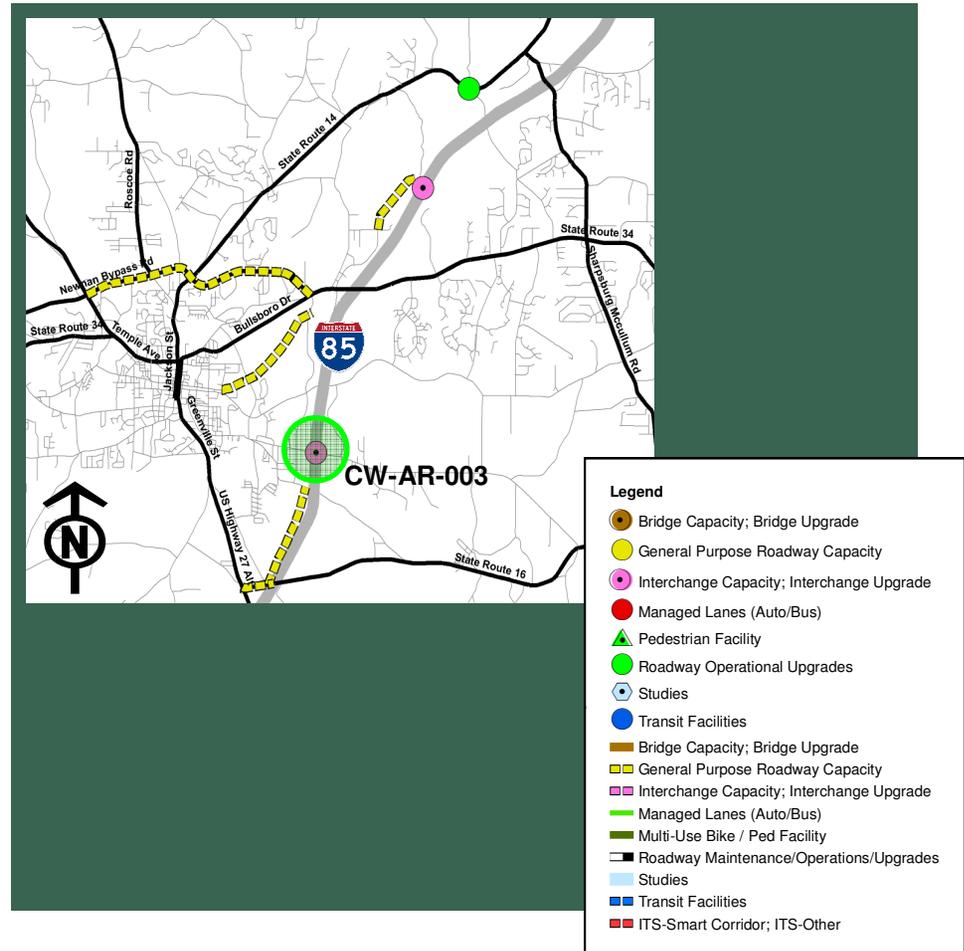
Envision6 Programmed and Planned Projects

**Interchange Capacity
I-85 at Poplar Road
(New Interchange)**
ARC ID – CW-AR-003
Type – Interchange Capacity
Status- Long Range
Phase – Preliminary Engineering
Fiscal Year – LR 2014-2020
Total Phase Cost
\$2,000,000

**Interchange Capacity
I-85 at Poplar Road
(New Interchange)**
ARC ID – CW-AR-003
Type – Interchange Capacity
Status- Long Range
Phase – Right of Way
Fiscal Year – LR 2014-2020
Total Phase Cost
\$4,000,000

**Interchange Capacity
I-85 at Poplar Road
(New Interchange)**
ARC ID – CW-AR-003
Type – Interchange Capacity
Status- Long Range
Phase – Construction
Fiscal Year - LR 2014-2020
Total Phase Cost
\$20,500,000

Project Summary
Congressional District 3
Sponsor – Coweta County
Jurisdiction – Coweta County
Total Project Cost
\$26,500,000





Radial Freeway
Strategic Improvement Plan

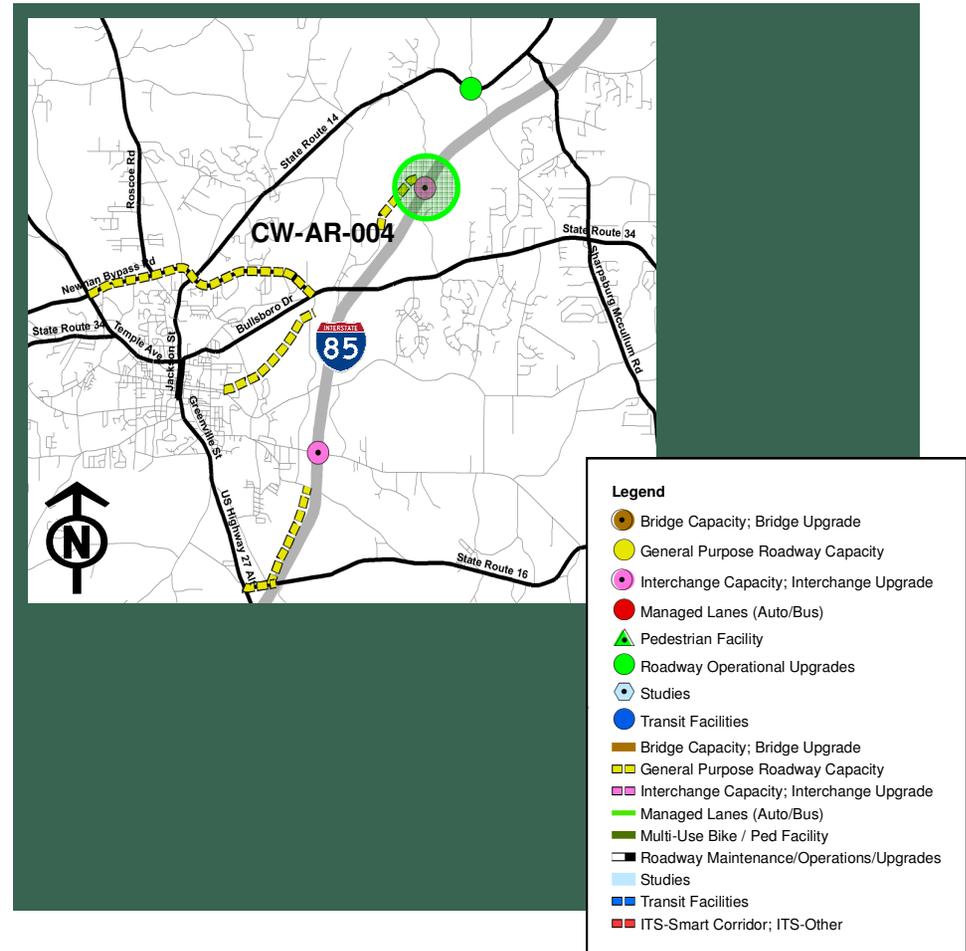
Envision6 Programmed and Planned Projects

**Interchange Capacity
I-85 at Amlajack Blvd
(New Interchange)**
ARC ID – CW-AR-004
Type – Interchange Capacity
Status- Long Range
Phase – Preliminary Engineering
Fiscal Year – LR 2014-2020
Total Phase Cost
\$2,000,000

**Interchange Capacity
I-85 at Amlajack Blvd
(New Interchange)**
ARC ID – CW-AR-004
Type – Interchange Capacity
Status- Long Range
Phase – Right of Way
Fiscal Year – LR 2014-2020
Total Phase Cost
\$5,298,000

**Interchange Capacity
I-85 at Amlajack Blvd
(New Interchange)**
ARC ID – CW-AR-004
Type – Interchange Capacity
Status- Long Range
Phase – Construction
Fiscal Year - LR 2014-2020
Total Phase Cost
\$20,500,000

Project Summary
Congressional District 3
Sponsor – Coweta County
Jurisdiction – Coweta County
Total Project Cost
\$27,798,000





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Strategic Improvement Plan

Funding Sources

Envision6 Project Funding Sources For I-85 South

Federal

\$50,000,000 (56%)

State

\$8,400,000 (9%)

Local

\$31,898,000 (35%)

Bond

\$0 (0%)

Total Corridor Investment

\$90,298,000

