

# **Regional Transportation Plan**

**PHASE I, FY 2006 – 2010**

**Status / Update**

**February 24, 2006**



Regional Transportation Plan  
Phase 1 Construction and R/W Projects  
(FY 2006 - 2010)

**Existing Corridor Widening  
and Improvements**



2001 Award Recipient

**US60, 303L to McDowell Rd.  
Improvements  
FY09 & 10**

**SR202L, SR51 to 101L  
Widening  
FY09**

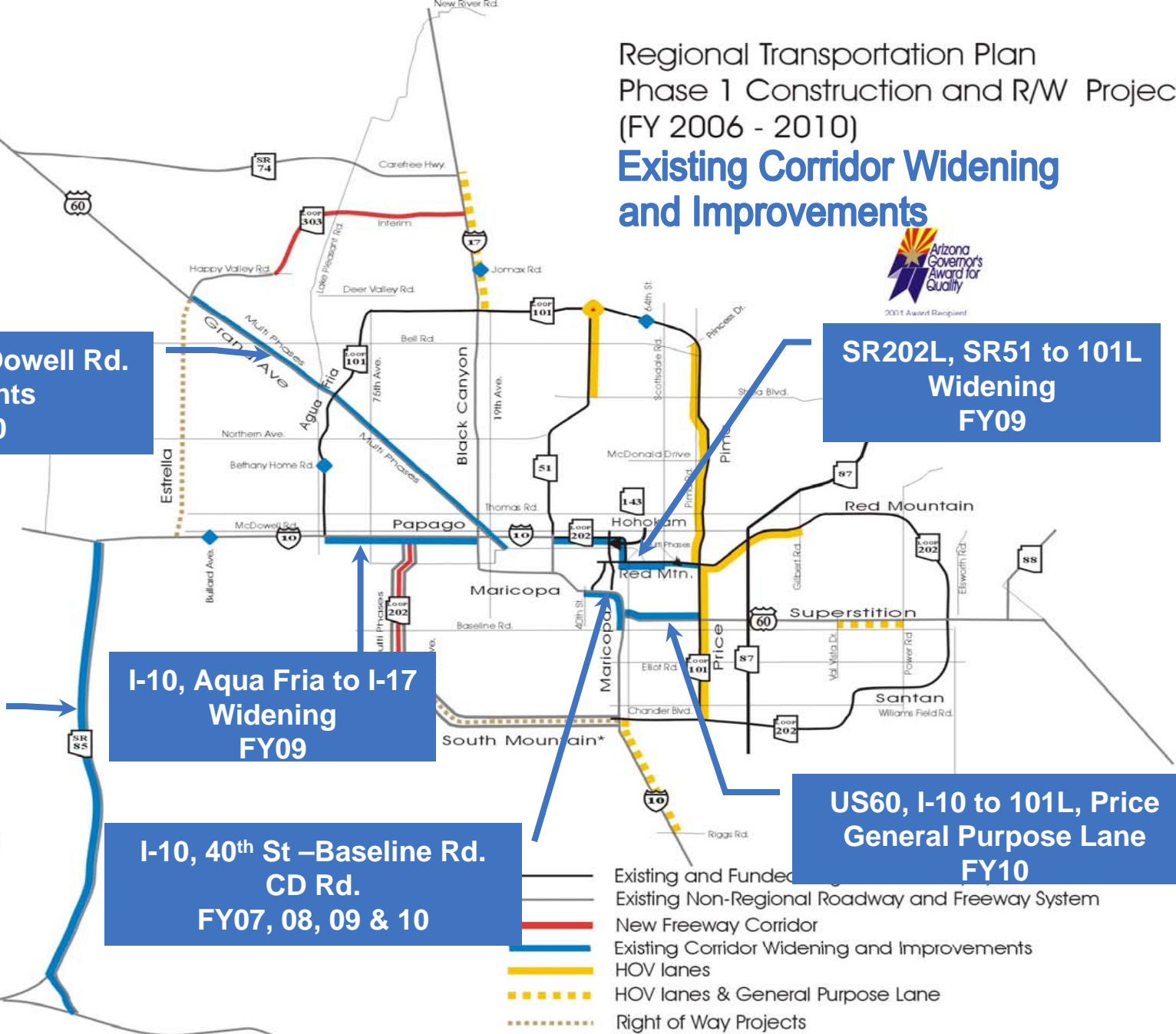


**SR85, I-8 to I-10  
Widening  
FY07, 09 & 10**

**I-10, Aqua Fria to I-17  
Widening  
FY09**

**I-10, 40<sup>th</sup> St –Baseline Rd.  
CD Rd.  
FY07, 08, 09 & 10**

**US60, I-10 to 101L, Price  
General Purpose Lane  
FY10**



- Existing and Funded
- Existing Non-Regional Roadway and Freeway System
- New Freeway Corridor
- Existing Corridor Widening and Improvements
- HOV lanes
- HOV lanes & General Purpose Lane
- Right of Way Projects

\* Location of South Mountain Freeway is being addressed in the DCR/EIS study process currently underway.

Regional Transportation Plan  
Phase 1 Construction and R/W Projects  
(FY 2006 - 2010)

# HOV Lanes



2001 Award Recipient

**SR51, 101L to Shea Blvd.  
FY07**

**101L, Princess Dr. to 202L  
FY07**

**101L, Red Mountain Fwy to  
Santan Fwy  
FY08 & 10**

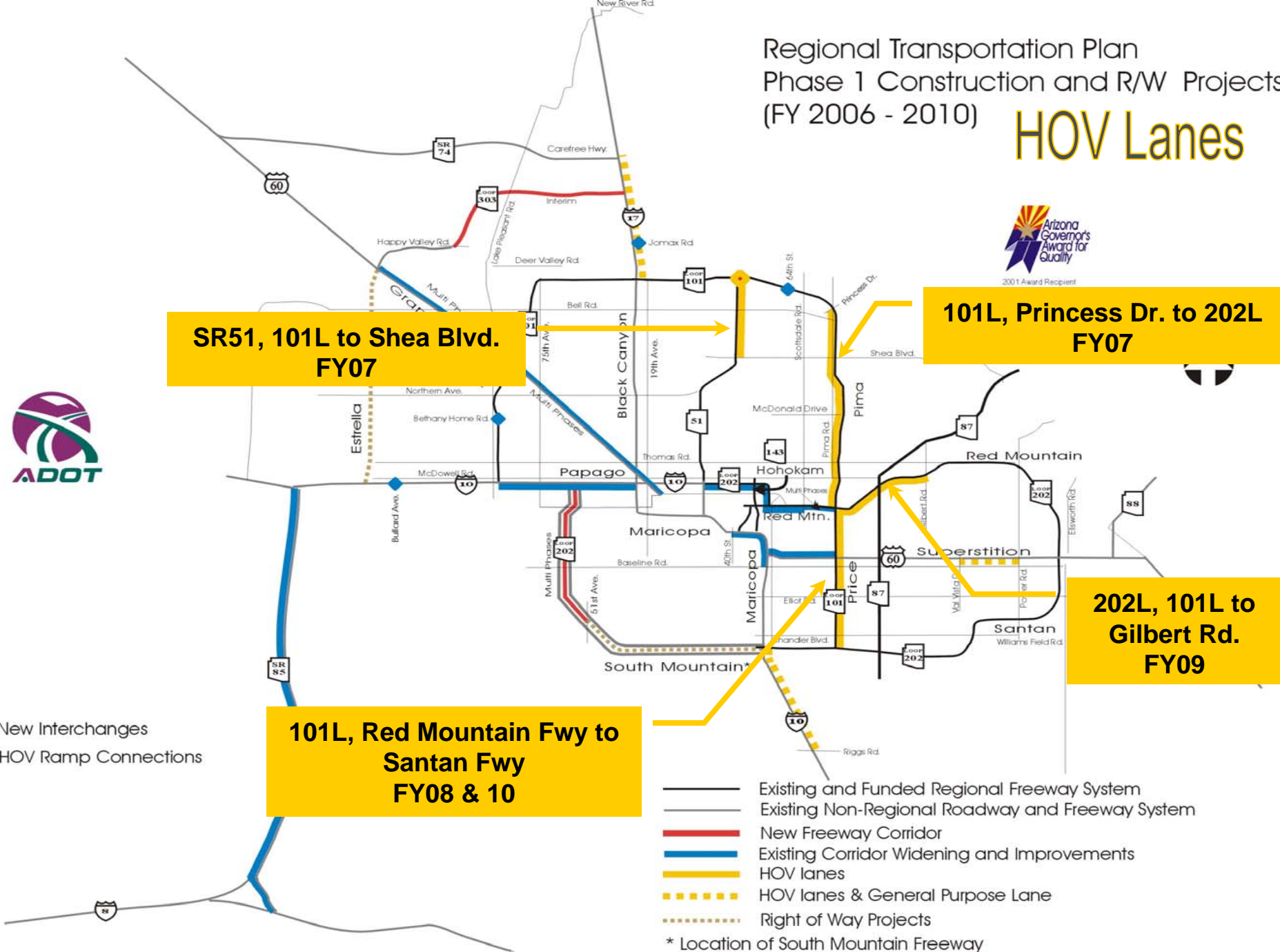
**202L, 101L to  
Gilbert Rd.  
FY09**



- ◆ New Interchanges
- ◆ HOV Ramp Connections

- Existing and Funded Regional Freeway System
- Existing Non-Regional Roadway and Freeway System
- New Freeway Corridor
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Regional Transportation Plan  
Phase 1 Construction and R/W Projects  
(FY 2006 - 2010)

**HOV Lanes & General Purpose Lanes**



2001 Award Recipient



**I-17, Carefree HWY to 101L  
FY07**

**I-10, Santan FWY to Riggs Rd.  
FY09**

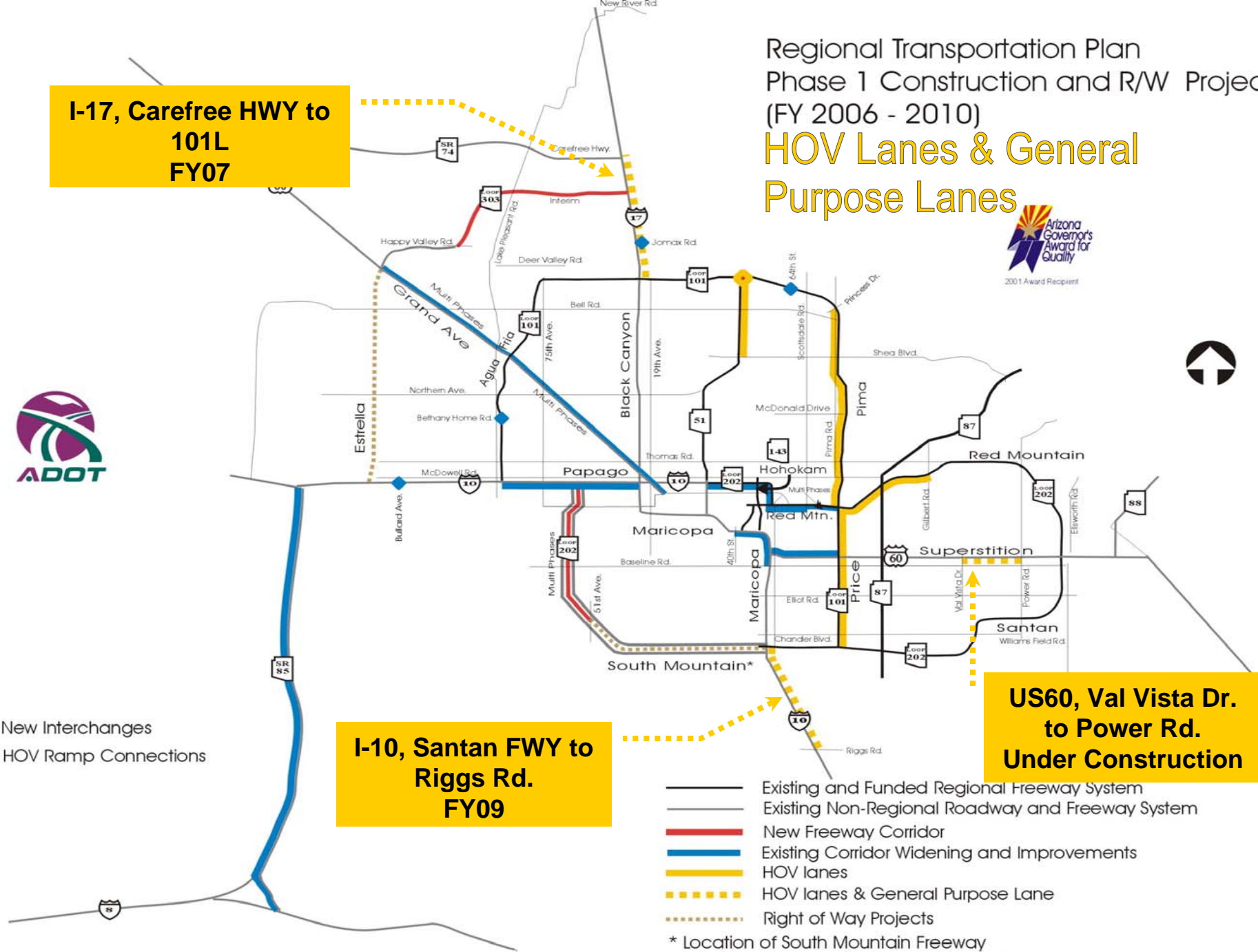
**US60, Val Vista Dr. to Power Rd.  
Under Construction**



- ◆ New Interchanges
- ◆ HOV Ramp Connections

- Existing and Funded Regional Freeway System
- Existing Non-Regional Roadway and Freeway System
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Regional Transportation Plan  
 Phase 1 Construction and R/W Projects  
 (FY 2006 - 2010)  
**New TIs & HOV  
 Ramp Connections**



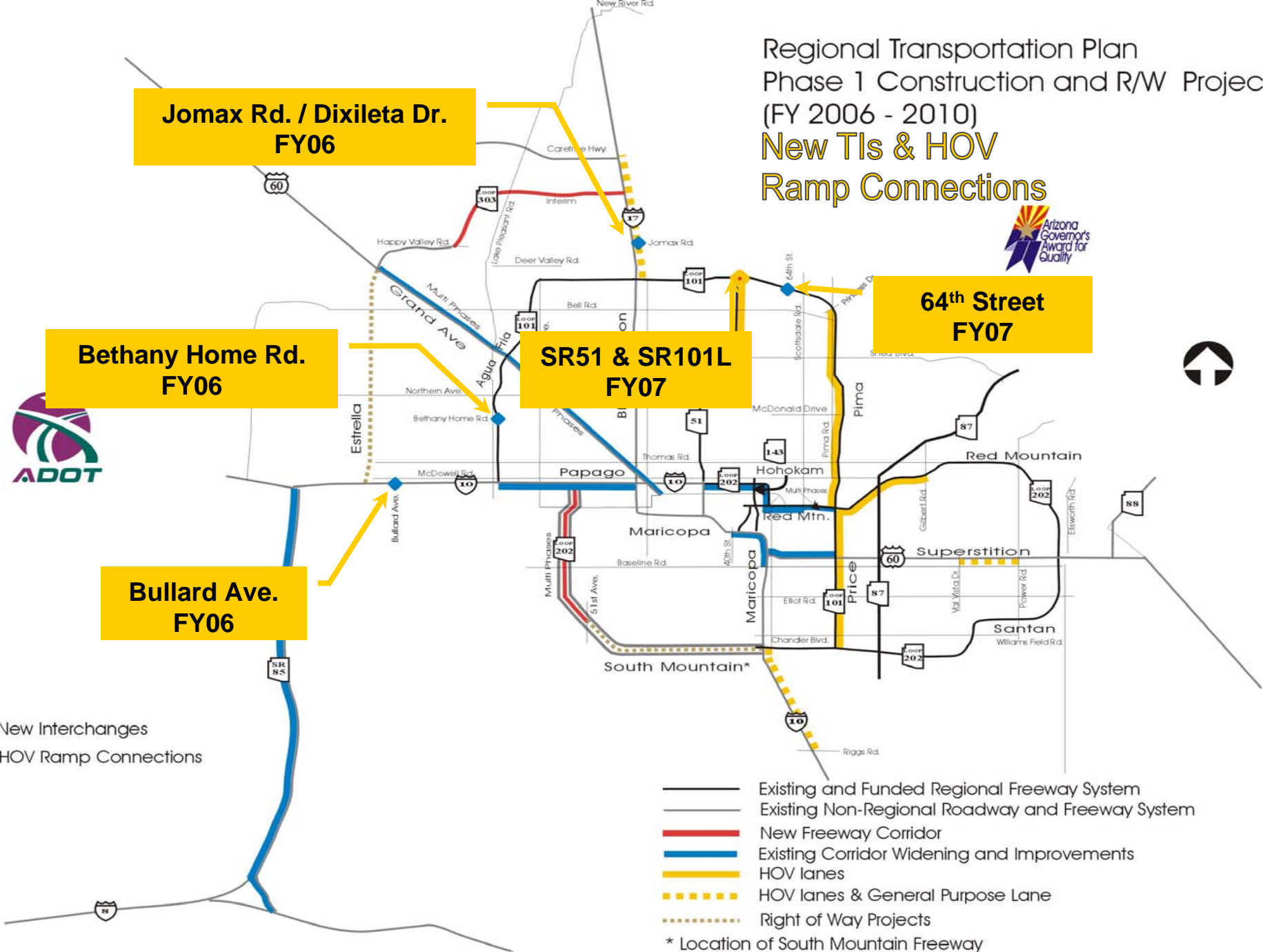
**Jomax Rd. / Dixileta Dr.  
 FY06**

**Bethany Home Rd.  
 FY06**

**Bullard Ave.  
 FY06**

**SR51 & SR101L  
 FY07**

**64th Street  
 FY07**



- New Interchanges
- HOV Ramp Connections

- Existing and Funded Regional Freeway System
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# Regional Transportation Plan Phase 1 Construction and R/W Projects (FY 2006 - 2010)



**303L, I-17 to Happy Valley Rd.  
Interim  
FY08 & 09**

**303L, US60 to I-10  
Right of Way  
FY06-10**



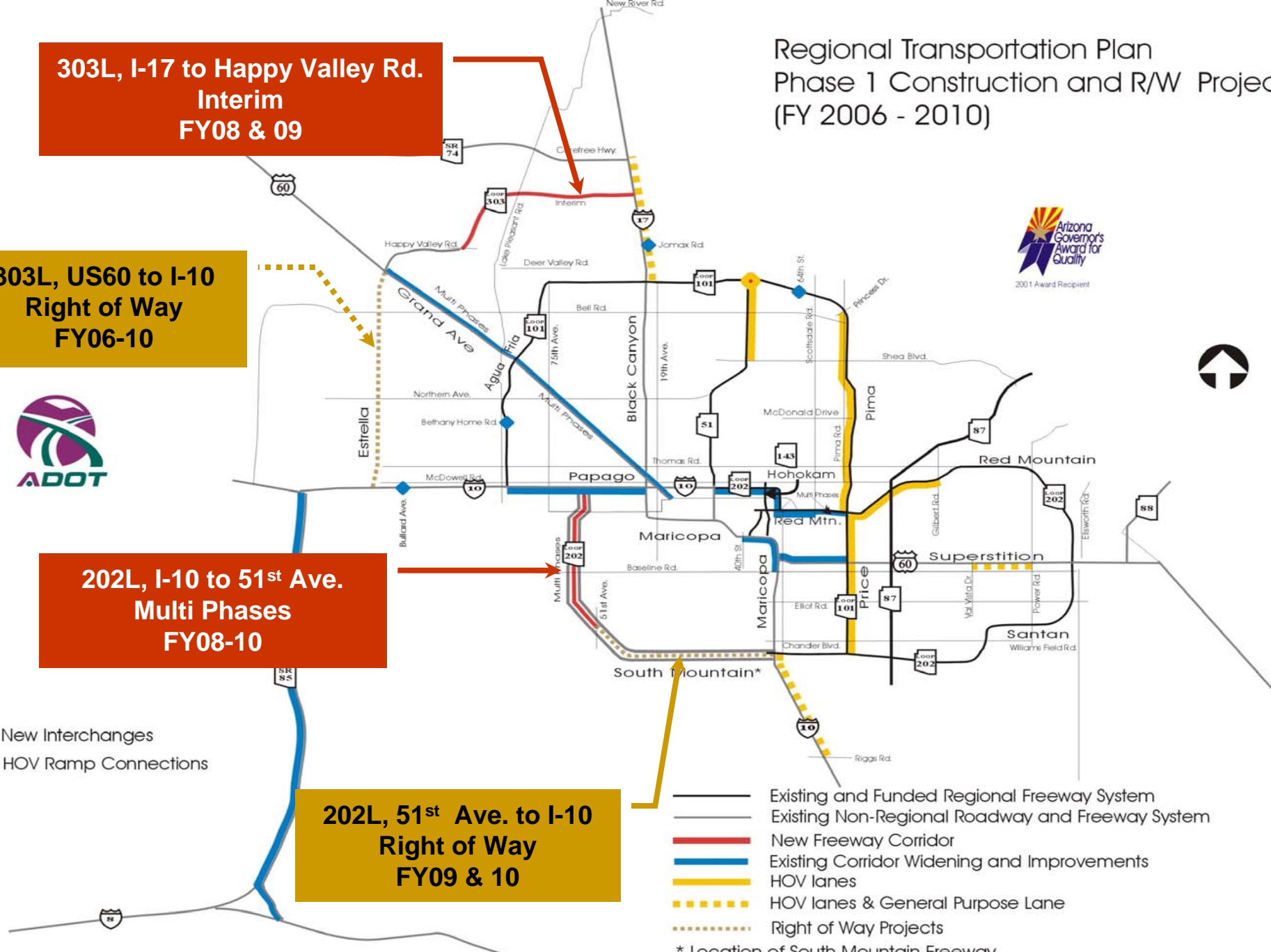
**202L, I-10 to 51<sup>st</sup> Ave.  
Multi Phases  
FY08-10**

**202L, 51<sup>st</sup> Ave. to I-10  
Right of Way  
FY09 & 10**

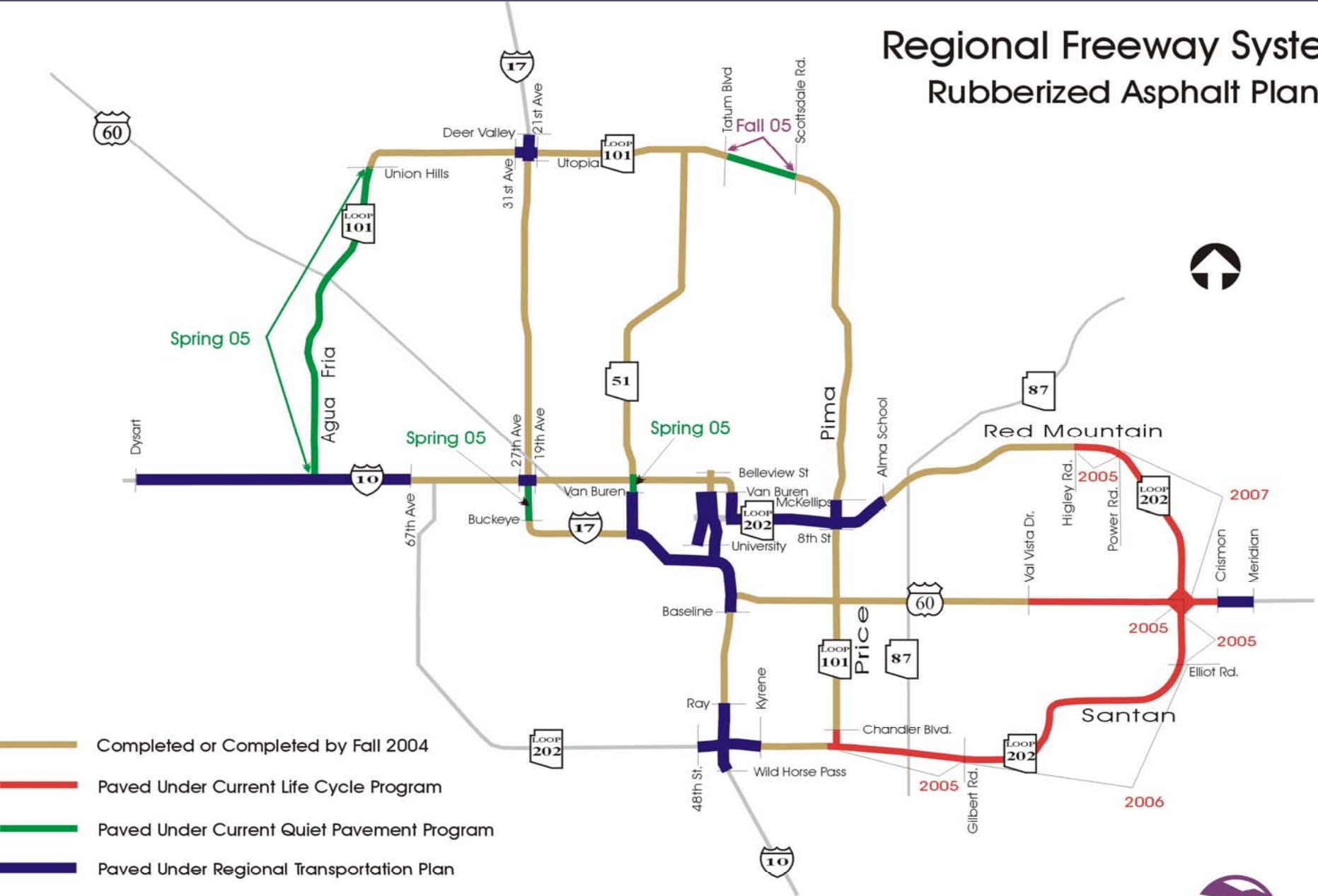
- New Interchanges
- HOV Ramp Connections

- Existing and Funded Regional Freeway System
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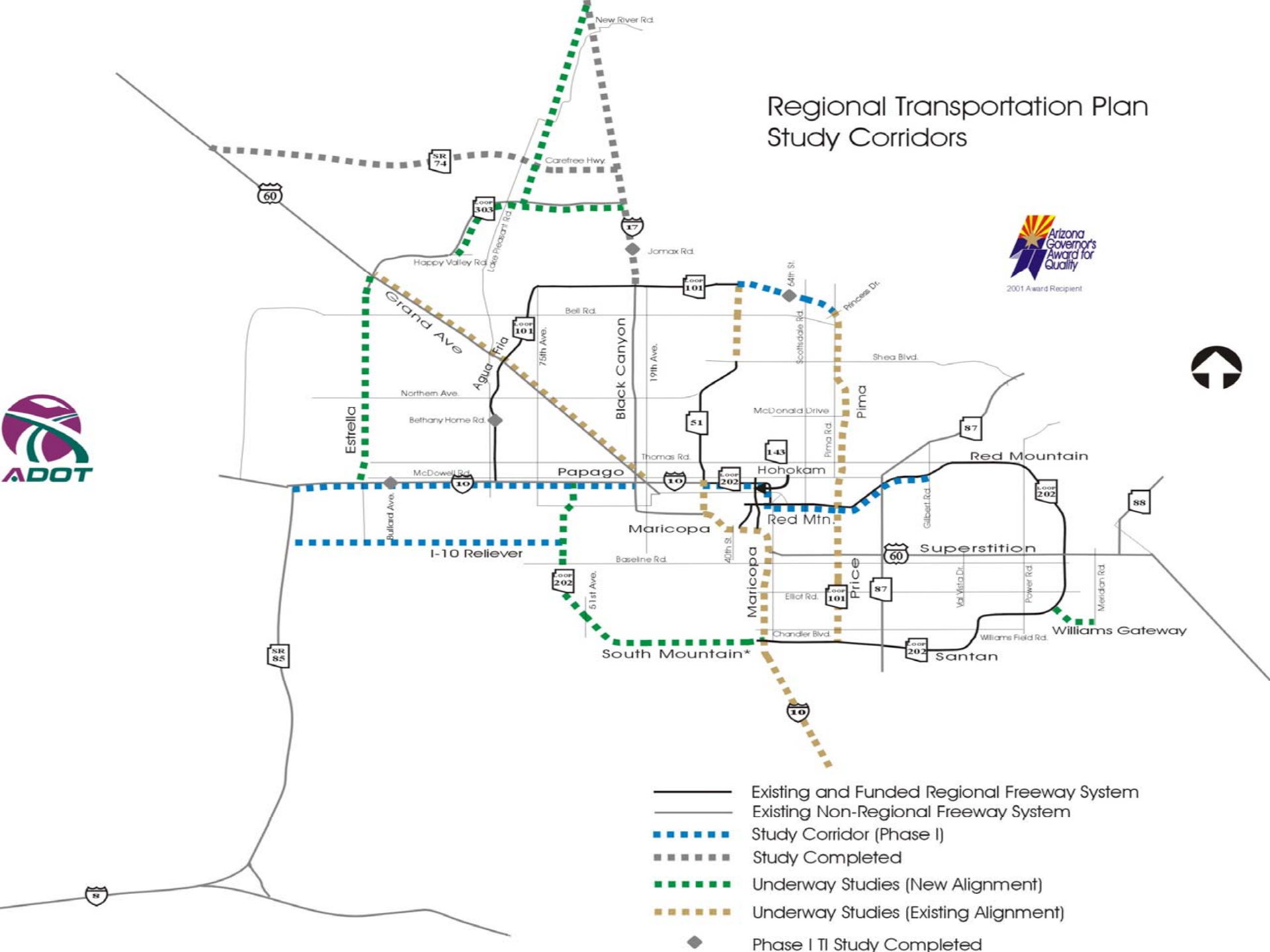


# Regional Freeway System Rubberized Asphalt Plan



- Completed or Completed by Fall 2004
- Paved Under Current Life Cycle Program
- Paved Under Current Quiet Pavement Program
- Paved Under Regional Transportation Plan

# Regional Transportation Plan Study Corridors



- Existing and Funded Regional Freeway System
- - - Existing Non-Regional Freeway System
- - - Study Corridor (Phase I)
- - - Study Completed
- - - Underway Studies (New Alignment)
- - - Underway Studies (Existing Alignment)
- ◆ Phase I TI Study Completed



# I-10

## ■ Bullard Ave. TI :

**Under final design, to be advertised  
in late FY06.**



# I-10

## ■ I-17 to Loop 101 :

- ❖ Widening study delayed pending transit studies (Light Rail / Bus Rapid Transit) for potential use of I-10 median. Study recommendations anticipated by summer 2006.
- ❖ Construction funding is programmed for FY09.



# I-10

## ■ SR51 to Santan Freeway :

- ❖ Collector Distributor roadway study.
- ❖ DCR/EIS underway but progressing slowly.
- ❖ Studies to be completed in FY08 at the earliest.
- ❖ Expenditure of all \$320 mil in Phase 1 as programmed may be problematic as a result of delayed study completion.



# I-10

## ■ Ray Road TI Widening :

- ❖ Under final design.
- ❖ Advertise in late FY06.





# I-10

## ■ Loop 202 – Riggs Road :

- ❖ GRIC recently transmitted a resolution supporting I-10 widening but with many conditions.
- ❖ DCR/EA studies can now proceed with expectations to complete by FY08.
- ❖ Construction programmed for FY09 could be delayed.



# I-10

## ■ I-10 Widening, Citrus/Loop 303 to Dysart Road :

- ❖ Coordination meetings underway involving west side cities, MAG, MCDOT and ADOT.
- ❖ Study effort initiated.
- ❖ Financing discussions and evaluations also occurring.



# I-10 Reliever

- (SR801) alignment study underway.
- Public scoping meetings held in September.
- Environmental study underway.
- R/W protection may be possible beginning in FY08.



# I-17

## ■ Jomax and Dixileta TIs :

- ❖ Final design has started.
- ❖ Advertisement in FY06.
- ❖ Construction to begin in late calendar year 06.





# I-17

## ■ Carefree Highway TI :

- ❖ Re-scoping underway.
- ❖ Final design to begin in early 2006.
- ❖ Advertisement anticipated in FY07.



# I-17

## ■ Loop 101 to Carefree Highway TI :

- ❖ Final design underway.
- ❖ Advertisement targeted for late FY07.
- ❖ Construction to begin in late calendar year 07.



# SR51

## ■ Shea Blvd. – Loop 101:

- ❖ HOV lane scoping almost completed.
- ❖ Final design to start in FY06.
- ❖ Advertisement in FY07.



## US60, Grand Ave.

### ■ 99<sup>th</sup> Ave. – 83<sup>rd</sup> Ave.:

- ❖ Scoping nearing completion.
- ❖ Final design to begin in FY06.
- ❖ Advertisement in FY07.





## US60, Grand Ave.

### ■ Loop 303 – Loop 101:

- ❖ Widening Grand Ave. to 3 lanes.
- ❖ Scoping underway.
- ❖ Advertisement planned for FY09.



# US60, Superstition Freeway

## ■ I-10 to Price :

- ❖ Scoping complete.
- ❖ Anticipate advertisement in FY10.
- ❖ Need to ensure Regional Council conditions are met before proceeding to final design.



# Loop 101, Agua Fria

## ■ Bethany Home Rd. TI :

- ❖ North half under final design.
- ❖ Advertise in late FY06.
- ❖ Construction to begin late calendar year 06.
- ❖ South half under construction.



# Loop 101, Pima Freeway

## ■ 64<sup>th</sup> St. TI :

- ❖ Under final design.
- ❖ Advertise in FY07.
- ❖ Construction to begin in late calendar year 06.





# Loop 101, Pima Freeway

## ■ Princess Dr. – Loop 202 :

- ❖ HOV lane project scoping nearing completion.
- ❖ Final design to start in FY06.
- ❖ Advertisement targeted for FY07.



# Loop 101, Price Freeway

## ■ Loop 202 to Baseline Rd. :

- ❖ HOV lane scoping nearing completion.
- ❖ Design to start in FY06.
- ❖ Advertisement targeted for FY08.



# Loop 101, Price Freeway

## ■ Baseline Rd. to Loop 202 :

- ❖ HOV lane scoping nearing completion.
- ❖ Design to begin in FY06.
- ❖ Advertisement targeted for FY10.



# Loop 202, South Mountain Freeway

- 4<sup>th</sup> year of EIS study; expect completion in 2007 with FHWA Record of Decision to follow.
- Target construction advertisement on western segment in FY08 will be delayed.



# Loop 202, South Mountain Freeway

- Following public input at meetings and Citizen's Advisory Team, ADOT/FHWA expect to make a decision on preferred western alignment (I-10 to 51<sup>st</sup> Ave.) in April/May 06.



# Loop 202, Red Mountain Freeway

- **Loop 101 to Gilbert Rd. :**
  - **HOV lanes scoping to be initiated in 2006.**
  - **Construction is programmed for FY09.**



# Loop 303

- Happy Valley Rd. to I-17 :
  - Engineering and environmental studies nearing completion.
  - Final design has started in anticipation of advertisement in FY08.



# Loop 303

## ■ I-10 to US60 :

- DCR/EA being prepared by MCDOT is nearing completion.
- 30% plans will begin in FY06 to proceed with R/W preservation in Phase I.
- Construction is programmed for Phase II.





# Loop 303

## ■ I-10 to US60 :

- West valley communities have expressed interest in acceleration of this project to match existing development and growth in the area.
- Financial partnering is being discussed with west valley communities, MAG, MCDOT and ADOT.



# Williams Gateway Freeway

- **ADOT's Transportation Planning Division's studies to provide long term transportation vision for Pinal County Corridors is anticipated to be completed later this year with possible Transportation Board action to follow.**



# Challenge of Construction



# COMMODITY ISSUES

## Cement

- ❖ US net importer
  - ❖ Ship, port and rail capacity limited.
- ❖ AZ produces 50% to 75% of state demand.
- ❖ AZ production capacity expansion problems.
  - ❖ Permitting/environmental issues.
  - ❖ Mining leases for limestone.
- ❖ Transportation capacity.
  - ❖ Rail, ship and port capacity.
- ❖ Price has more than doubled.



# COMMODITY ISSUES

## Aggregate

- ❖ Gravel pits moving into rural areas of state.
- ❖ Transportation costs.
- ❖ Environmental regulations.

## Petroleum Products

- ❖ Pricing is volatile.
- ❖ Direct and indirect impacts.
- ❖ Transportation costs.
- ❖ Availability and pricing of asphalt products.

## Steel

## Lumber



# EXAMPLES

## ❖ Cement

- ❖ November 2004: \$100 per ton
- ❖ November 2005: \$180 per ton

## ❖ Steel

- ❖ 2003: \$0.55 per pound
- ❖ 2004: \$0.91 per pound
- ❖ 2005: \$1.03 per pound

## ❖ Aggregate for Concrete

- ❖ 30% increase in past year
  - ❖ Processing & hauling costs
  - ❖ Reduced availability of sources

## ❖ Diesel Fuel

- ❖ 70% increase in past year (2005 to 2006)



# LABOR SHORTAGES

- ❖ Lack of available skilled & unskilled labor.
- ❖ 40% turnover of workers.
- ❖ High level of other construction in state.
- ❖ Lack of adequate apprenticeship and training programs.



# SUMMARY OF IMPACTS

## ❖ Greater Uncertainty

- ❖ Bids are increased to cover risk
- ❖ Fewer bids if risk too high

## ❖ Material Shortages

- ❖ Higher prices
- ❖ More schedule uncertainty
- ❖ Reduced productivity
- ❖ Liquidated damages for delays

## ❖ Labor Shortages

- ❖ Higher wages
- ❖ Reduced productivity
- ❖ Longer schedules





# EXAMPLES OF RECENT COST INCREASES

1. US60 six mile widening project from Gilbert Rd. to Power Rd.

States estimated construction cost was \$59.7 million.

Two bids were received with the lowest at \$73.7 million. 23% higher than the State's estimate.



# EXAMPLES OF RECENT COST INCREASES

## 2. Red Mountain Freeway : University to Southern Ave.

One bid was received for \$68.4 million which was 38% higher than the State's estimate of \$52.4 million in June.



# EXAMPLES OF RECENT COST INCREASES

## 3. Red Mountain: Power to University

- \* Program estimate: \$144 million
- \* Two bids received
- \* Bid Amount: \$195 million

