

Principal Arterial System Update

Maricopa Association of Governments

June 10, 2014

MAG Street Committee

Agenda Item # 7

- Stephen Tate,
Transportation Planner

Background

- The last several meetings have addressed the updating of the principal arterials in the MAG urbanized area.
- The update is part of the routine update that follows changes in urban area boundaries.
- The update addresses two major conflicts with FHWA functional classification guidelines:
 - Excessive Principal Arterial System size
 - Violations of Network Geometry (spacing, stub ends and route continuity).

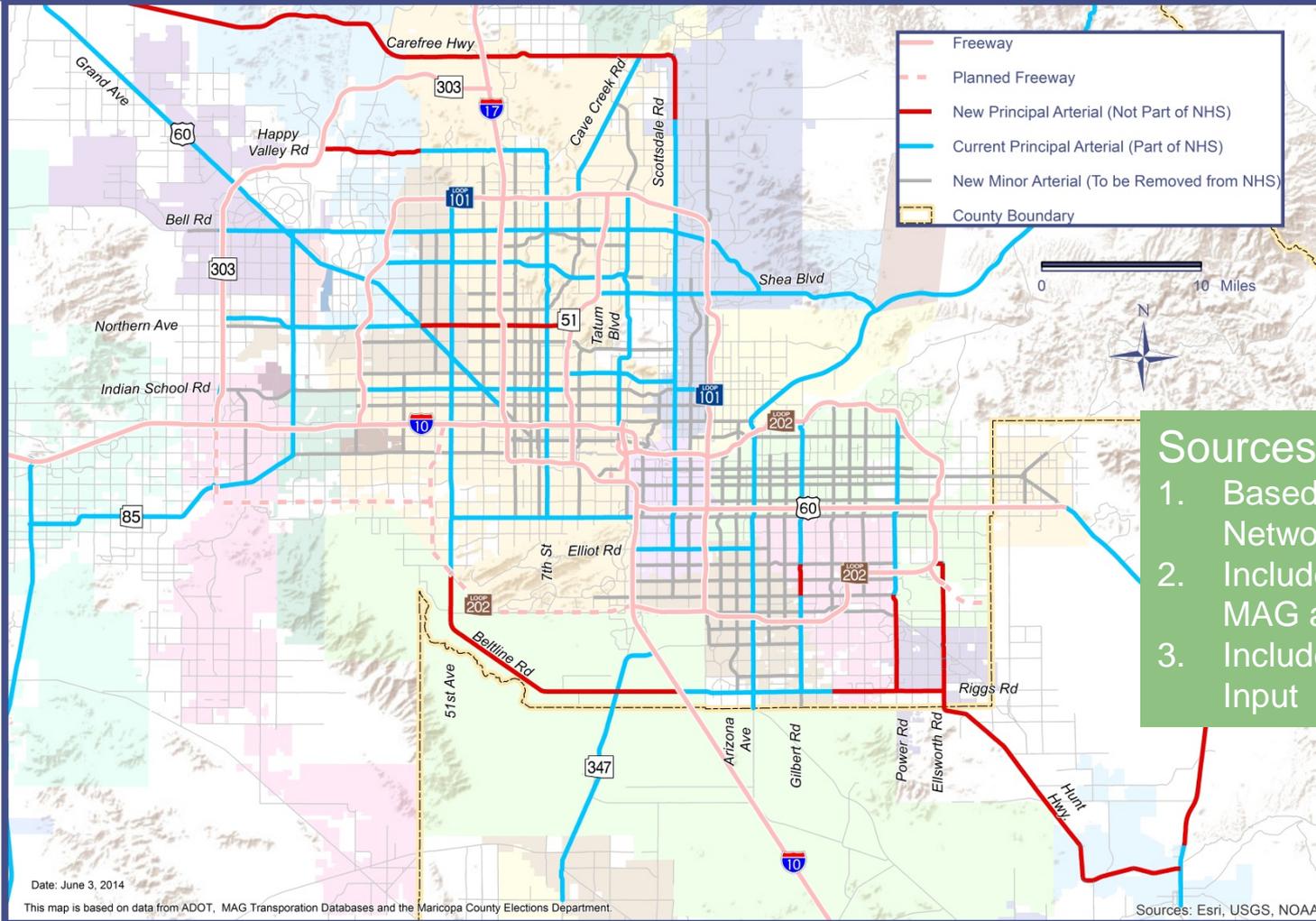
Results of the Update

- The Update will bring the Principal Arterial System (PAS) into accord with FHWA functional classification guidelines
- Add some principal arterials to reflect growth since the last major update in 2004
- Reclassify roadways to minor arterial that are improperly classified as principal arterial, thereby removing them from the NHS

Impacts of Reclassification

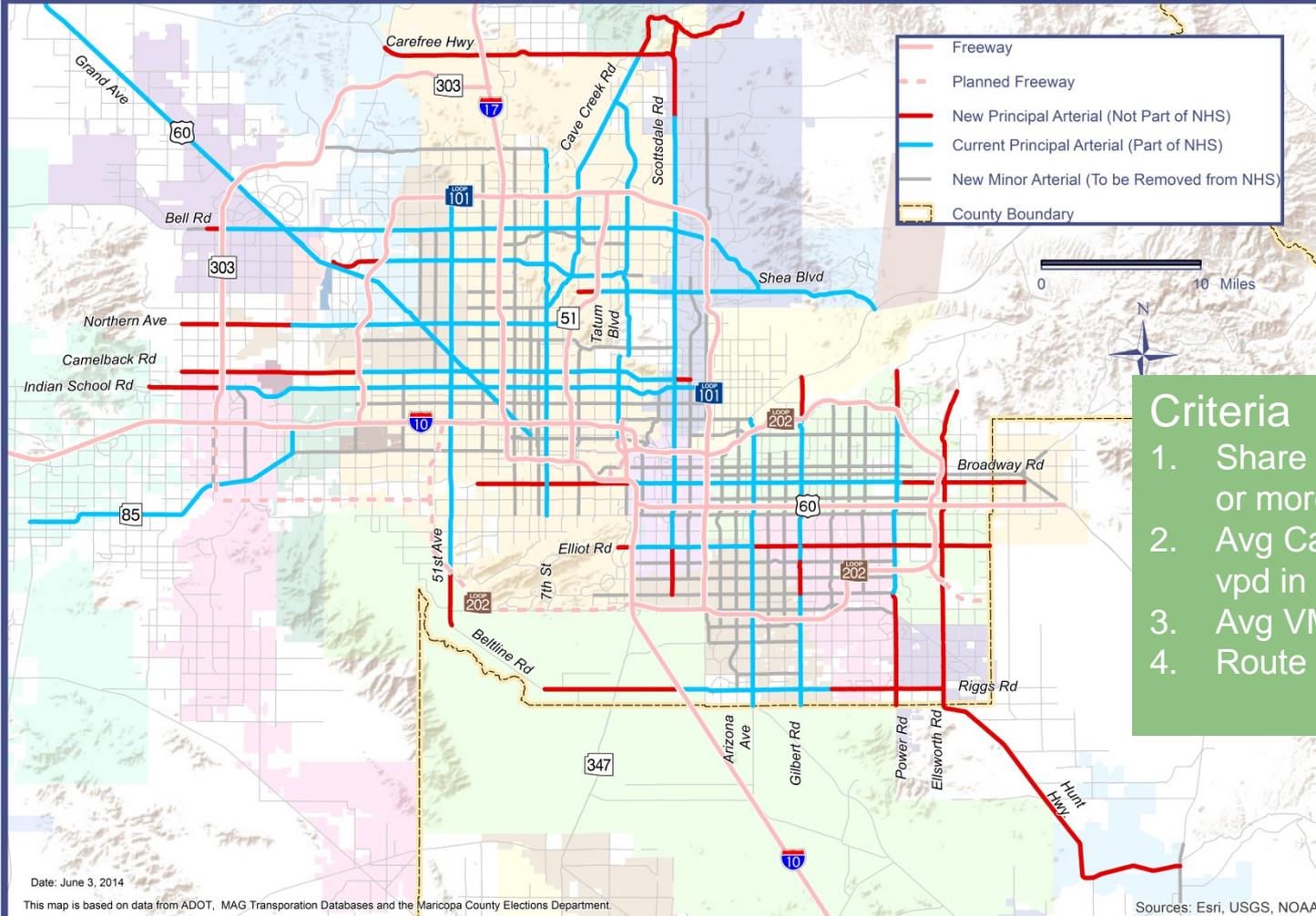
- Principal Arterial Additions
 - Will not result in the addition of the roadway to the NHS as this requires separate action and FHWA approval.
 - Will allow future consideration to add to the NHS if the owning agency desires it.
- Minor Arterial Reclassifications
 - Will not affect their eligibility for federal funds through MAG (STP, HSIP, CMAQ and TA).
 - Will make them ineligible for ADOT programmed NHPP funding.
 - Will free them of NHS requirements.

Map One: Approach 2B



- ## Sources
1. Based on ADOT Developed Network
 2. Includes a Review of the MAG and RRS Networks
 3. Includes Member Agency Input

Map Two: MAG Model Selected Arterials



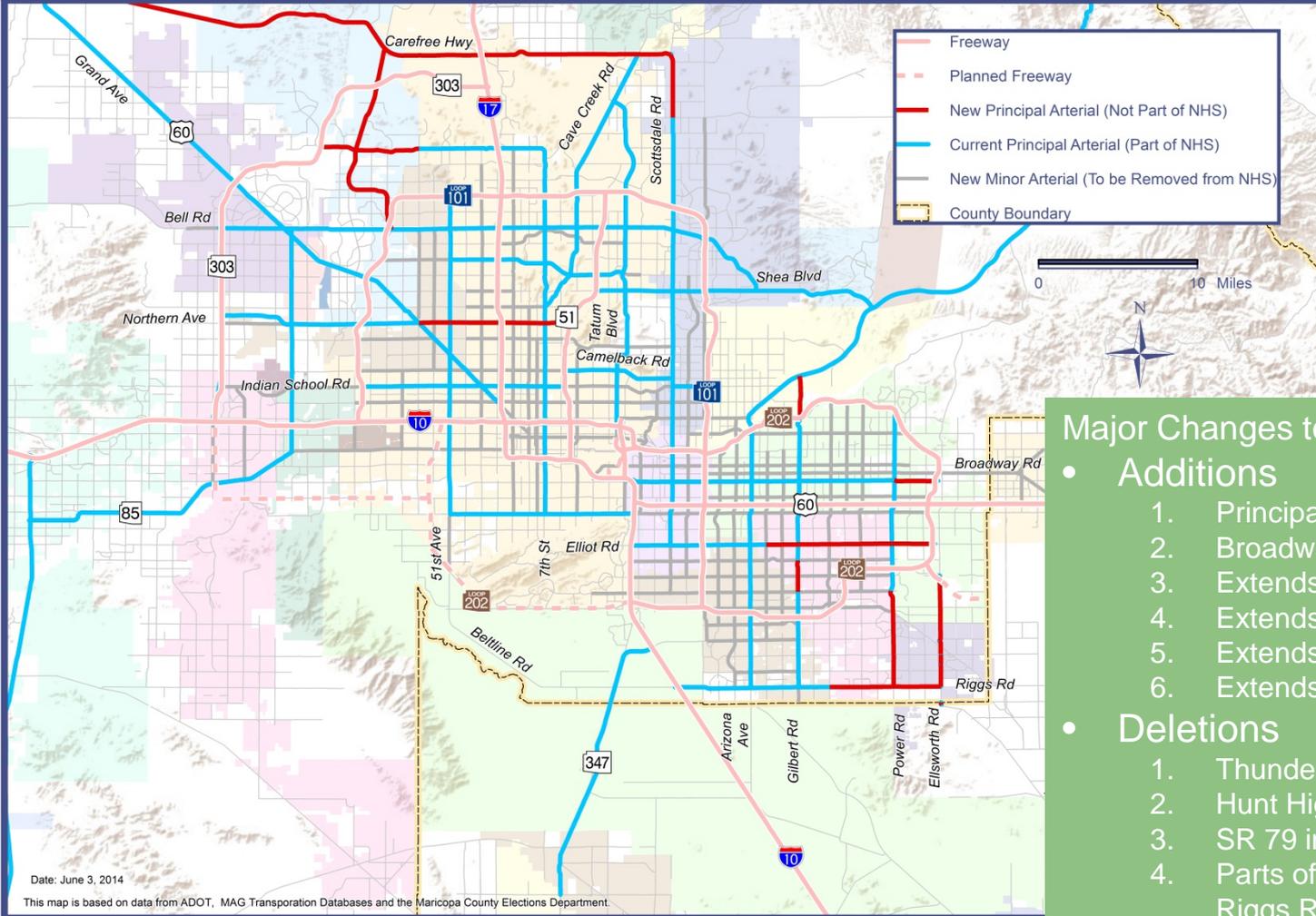
- ### Criteria
1. Share of trips lengths of 9 mi or more $\geq 50\%$
 2. Avg Cap/Segment $\geq 43,000$ vpd in Developed Areas
 3. Avg VMT/segment $\geq 5,000$
 4. Route Length ≥ 18 miles

Date: June 3, 2014

This map is based on data from ADOT, MAG Transportation Databases and the Maricopa County Elections Department.

Sources: Esri, USGS, NOAA

Map Three: Proposed Arterial Network



Major Changes to Option 2B

• Additions

1. Principal Arterials in NW Valley
2. Broadway Rd
3. Extends Cave Creek to 7th St
4. Extends Gilbert Rd to SR 87
5. Extends Elliot to the Santan
6. Extends Tatum to Cave Creek Rd

• Deletions

1. Thunderbird Rd, 51st Av-83rd Ave
2. Hunt Highway
3. SR 79 in Florence
4. Parts of 51st Av, Bellline Rd and Riggs Rd in the Vicinity of the Gila River Indian Community

Summary Statistics

- Centerline Miles
 - Principal Arterial/NHS = 349
 - New Principal Arterial = 88
 - Total Principal Arterial = 437
- VMT Carried = 13 million/day
- ADT = 20,000 vpd
- Share of Trips with a length of 9 mi. or more = 67%



Possible Action

- For information, discussion, and possible recommendation of an updated Principal Arterial System network to the Transportation Review Committee

Thank you

- Contact information MAG TIP and Programming:
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