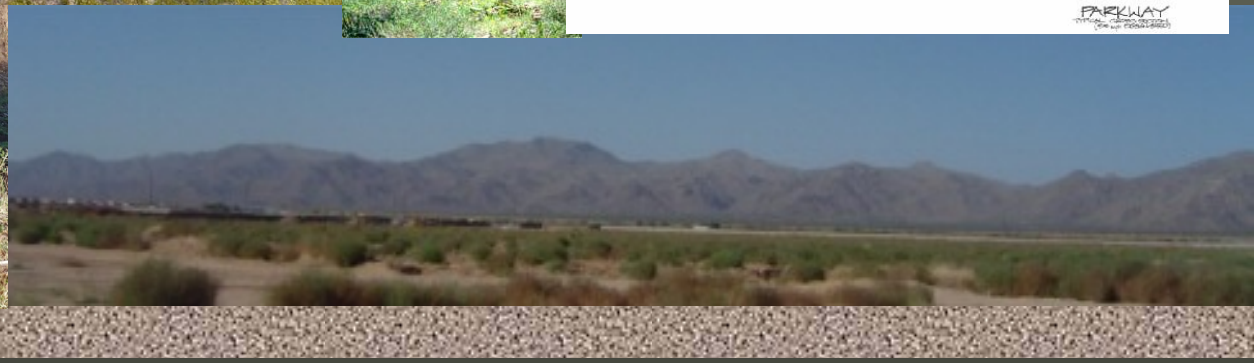

BUILDING A QUALITY ARIZONA

Interstate 10-Hassayampa Valley Transportation Framework Study

MAG Transportation Policy Committee

August 20, 2007

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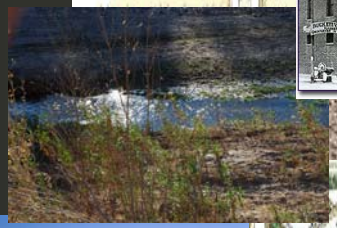

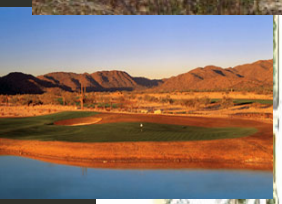

Study Process

- Buildout Scenario
- Corridors Determination
- Transit Options
- Immediate Actions
- Funding Options

INTERSTATE 10 – HASSAYAMPA VALLEY
TRANSPORTATION FRAMEWORK STUDY

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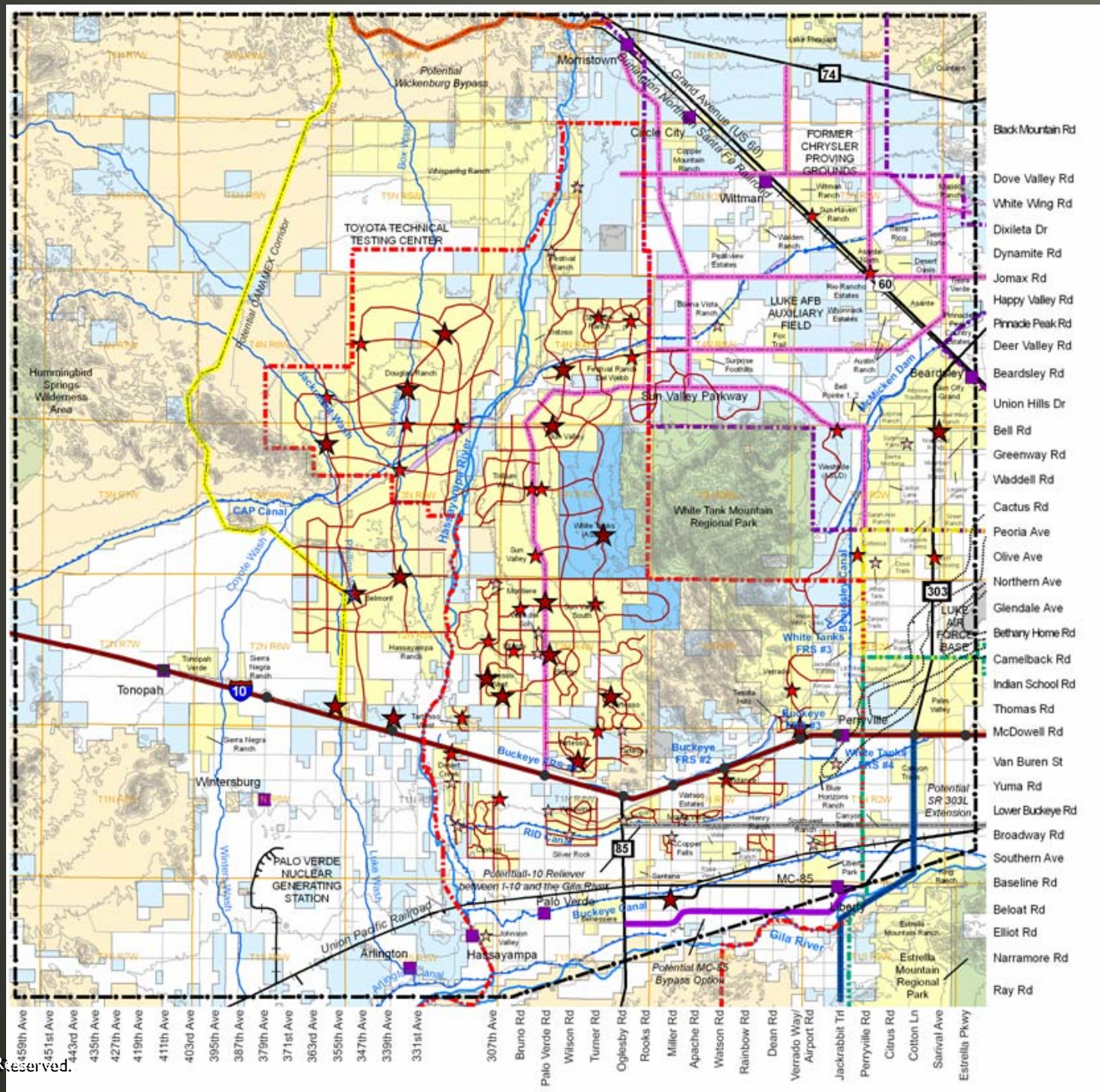
INTERSTATE 10 – HASSAYAMPA VALLEY TRANSPORTATION FRAMEWORK STUDY



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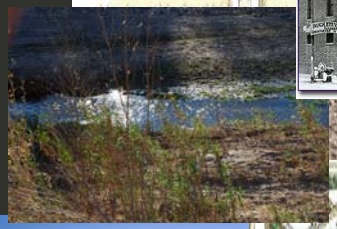

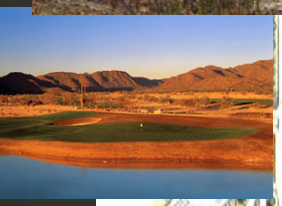

Hassayampa Valley Projections

	Dwelling Units	Population	Employment
2005	55,000	138,000	48,000
2030	395,000	948,000	379,000
Build-Out	**906,000**	**2,862,000**	**836,000**

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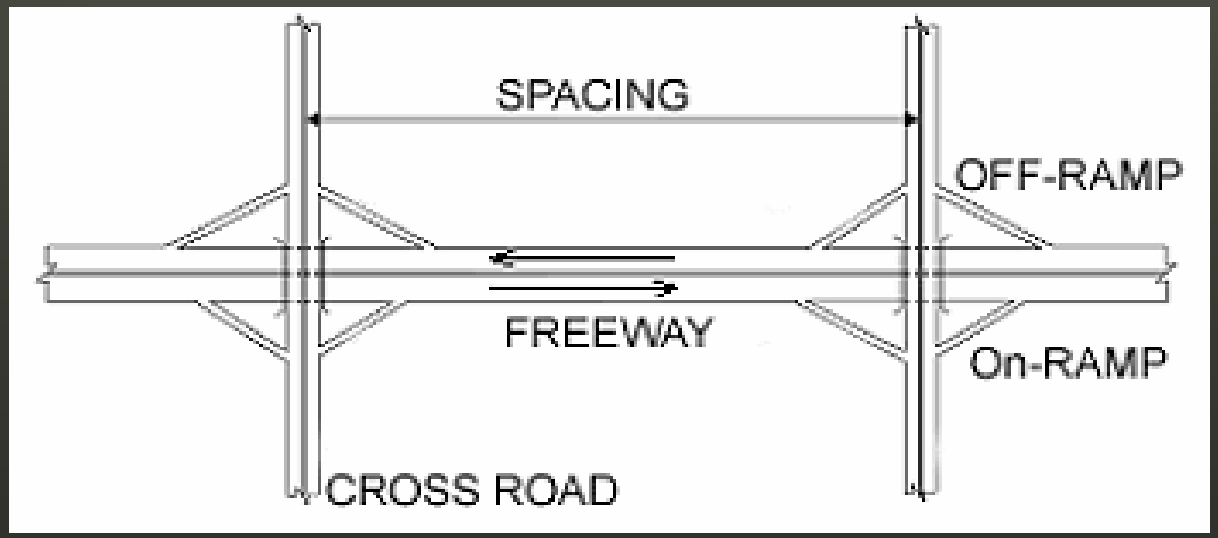
Freeways

- Traffic Interchange Spacing
  - Guidelines – 3 miles in urban areas*
  - Greater throughput**
  - Greater Safety – Splitting a 2-mile segment means 2.5 greater crash frequency on high volume freeways***



*Source: Access Management Manual, Transportation Research Board, 2003

**Source: Highway Capacity Manual, Transportation Research Board, 2000

**Source: Safety Assessment of Interchange Spacing on Urban Freeways, Report FHWA-HRT-07-031, www.thrc.fhwa.gov, 2007

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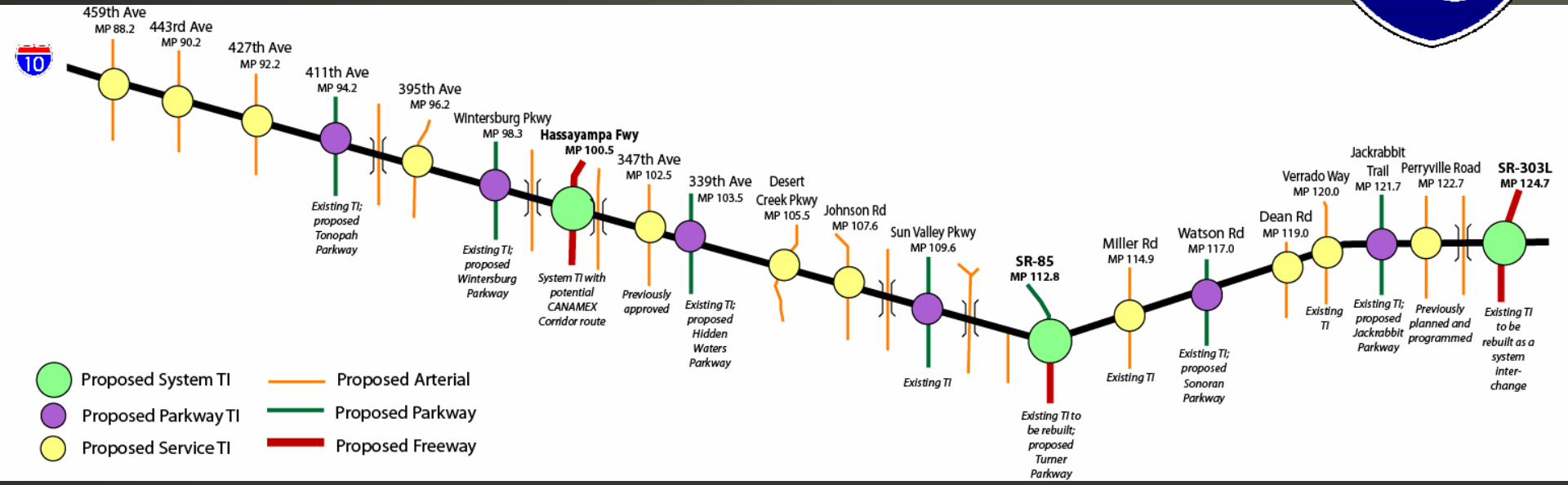
Interchange Spacing Recommendation

- Interstate 10 Freeway
  - SR-303L/Estrella Fwy to 459th Ave
  - 20 Traffic Interchanges



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"The Arizona Parkway"

- 40 years practice in seven states
- Marginal cost increase over conventional arterials
- Near-freeway volumes
- Context-sensitive
- Fewer Conflict Points
  - 60 percent fewer crashes
  - 75 percent fewer injuries

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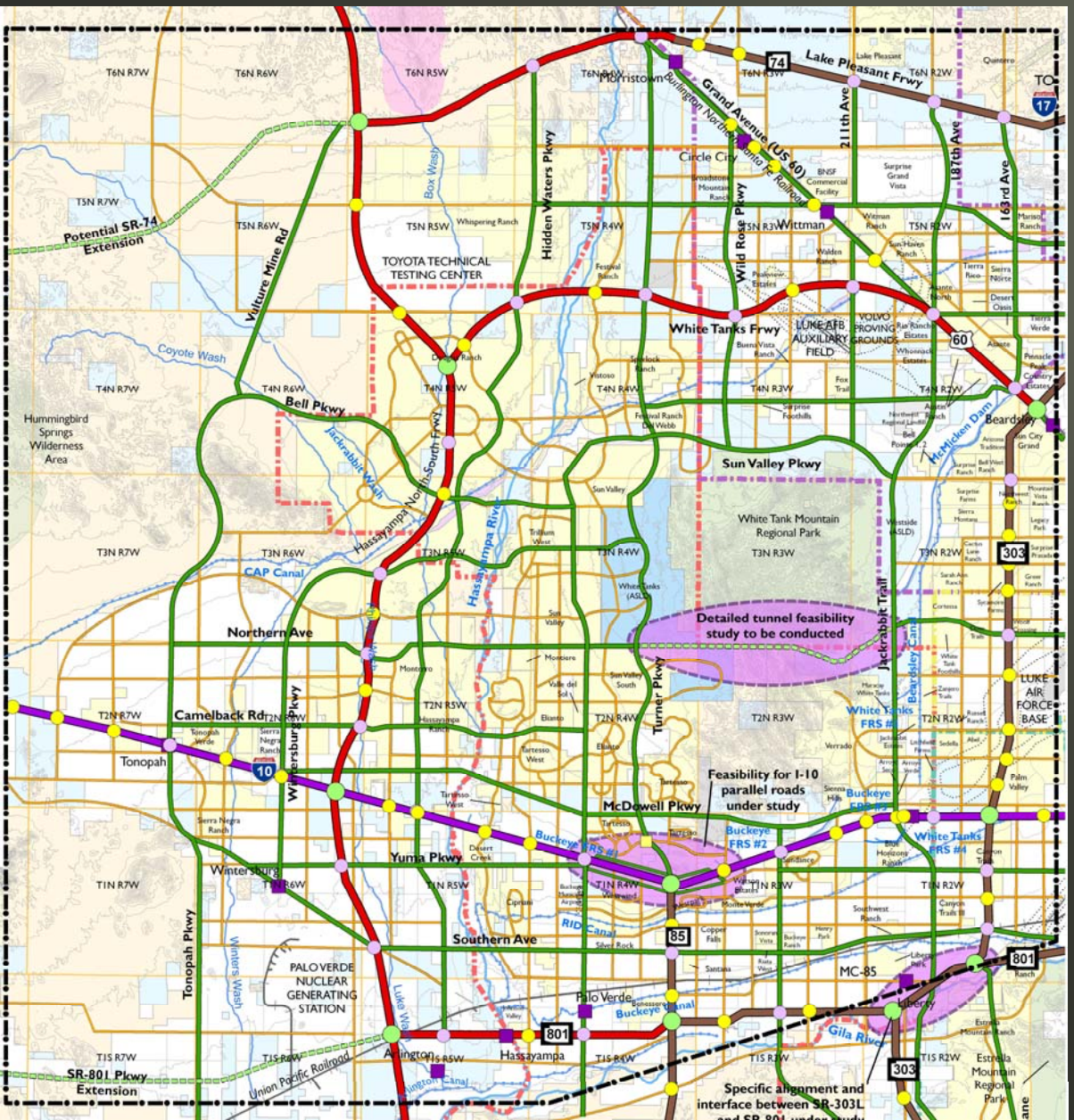
Conceptual Transportation Framework



Freeways

- Existing Freeway Improvements
- Future RTP Freeways
- New Freeway Proposals

Parkways

- New Parkway Alternatives
- New Parkway Proposals

Major Arterials

- Future Major Arterial Network

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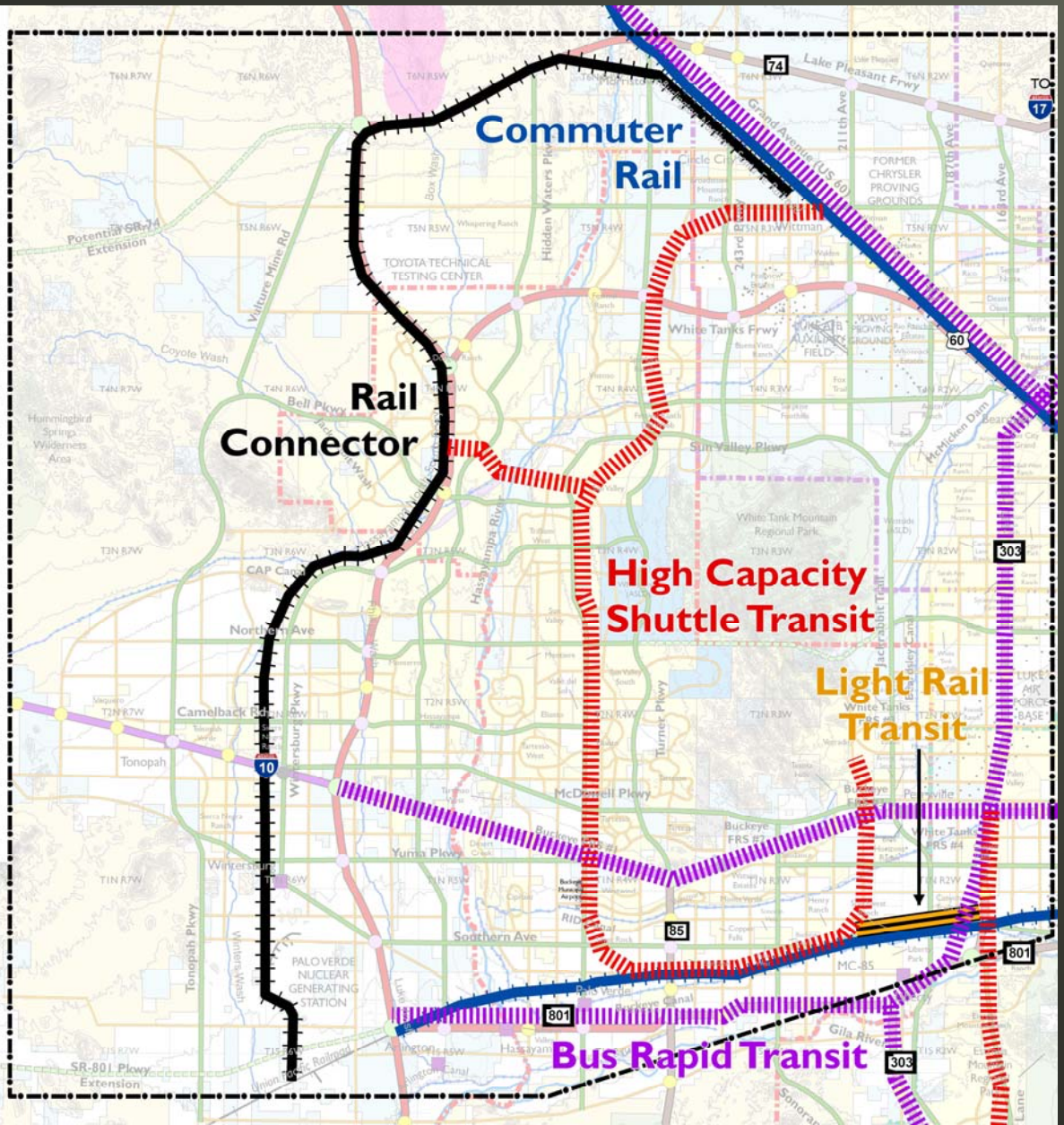
Transit Options



Potential High Capacity Transit

- Bus Rapid Transit
- High Capacity Shuttle Transit
- Commuter Rail
- Freight and Passenger Rail Connector
- Light Rail Transit

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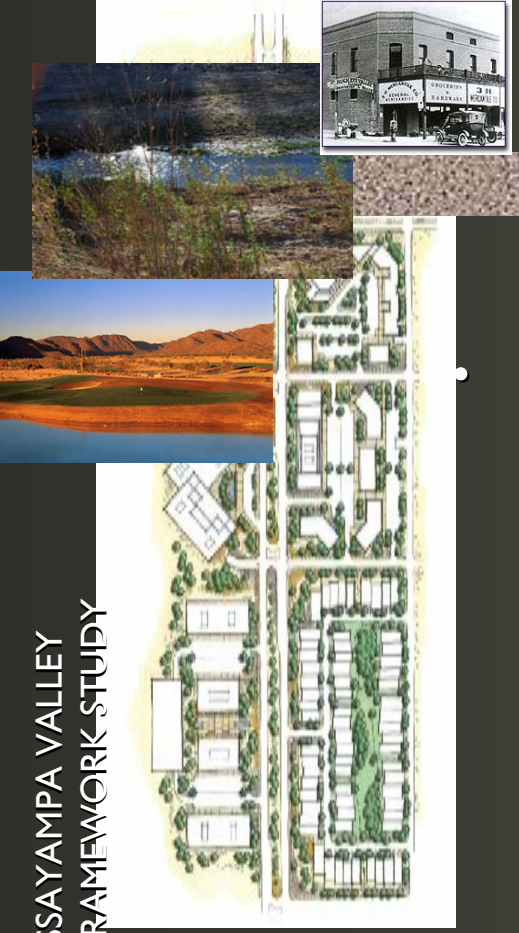

Funding Options

- Currently Available Revenue Sources
  - Highway User Revenue Fund (gas tax)
  - Vehicle License Tax
  - Regional Area Road Fund (Proposition 400)
  - Roadway Impact Fees (residential and commercial)
  - Local Sales Tax (cities and towns only)
  - Construction Sales Tax (cities and towns only)
  - Secondary Property Taxes

- Potential Revenue Sources (not currently authorized)
  - Local Options to Levy Fuel Taxes
  - Other Local Options for Taxes or Fees
  - Additional Regional Sales Tax
  - Regional or State Impact Fees
  - Primary Property Taxes
  - Charges Based on Roadway Use
    - Congestion Pricing
    - Mileage-Based Fees
    - Toll Facilities

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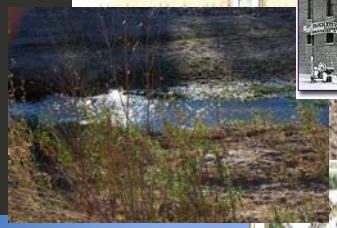

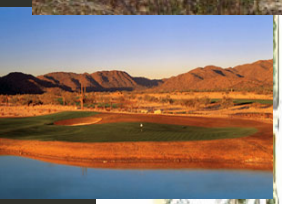

Just a framework . . .

- Response to growth
- **Locations are subject to change!**
- Subject to appropriate planning, engineering, and environmental studies
  - Regional Transportation Plan
  - Municipal General Plans/Maricopa County Plans
  - Corridor Location Studies
  - Design Concept Reports (DCRs)
  - State and Federal Environmental Studies
- Actions are not currently funded

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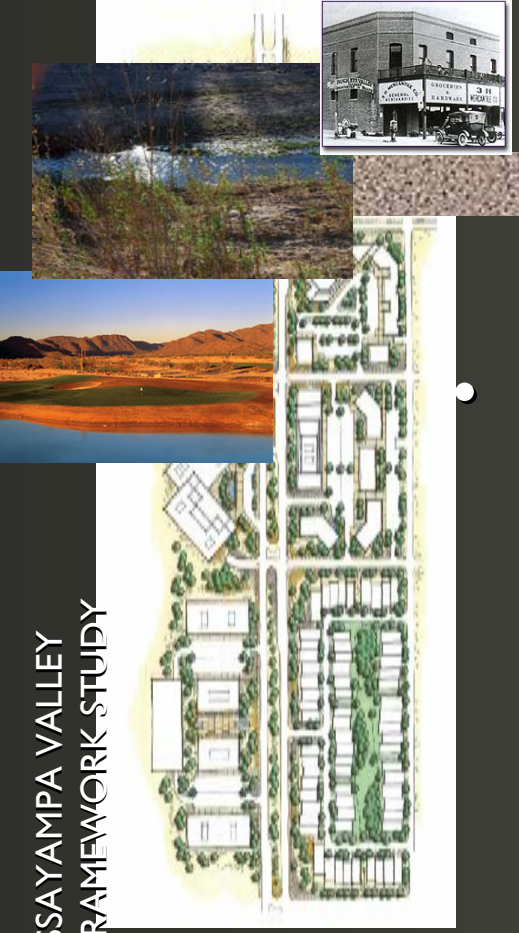

Recommendations

- Study Acceptance
  - Key Framework Corridors
  - Freeway Interchange Recommendations
  - New "Arizona Parkway" Recommendation
  - Implementation Strategy

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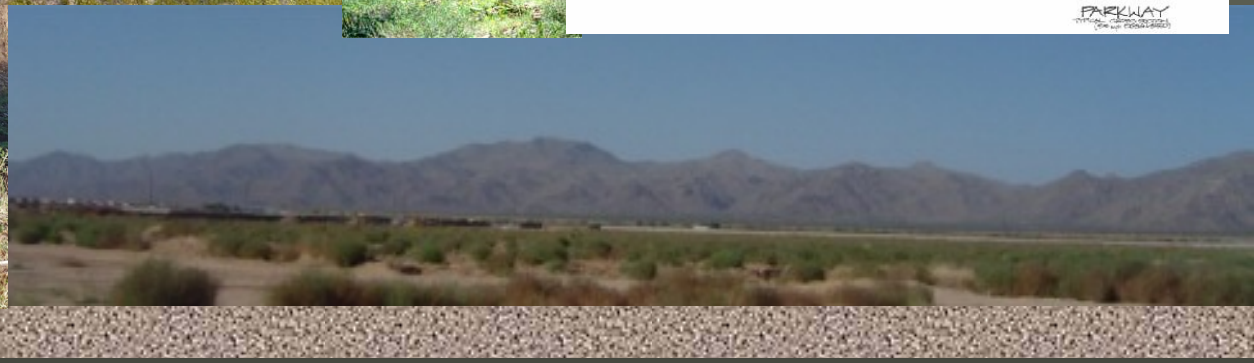

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For More Information . . .

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