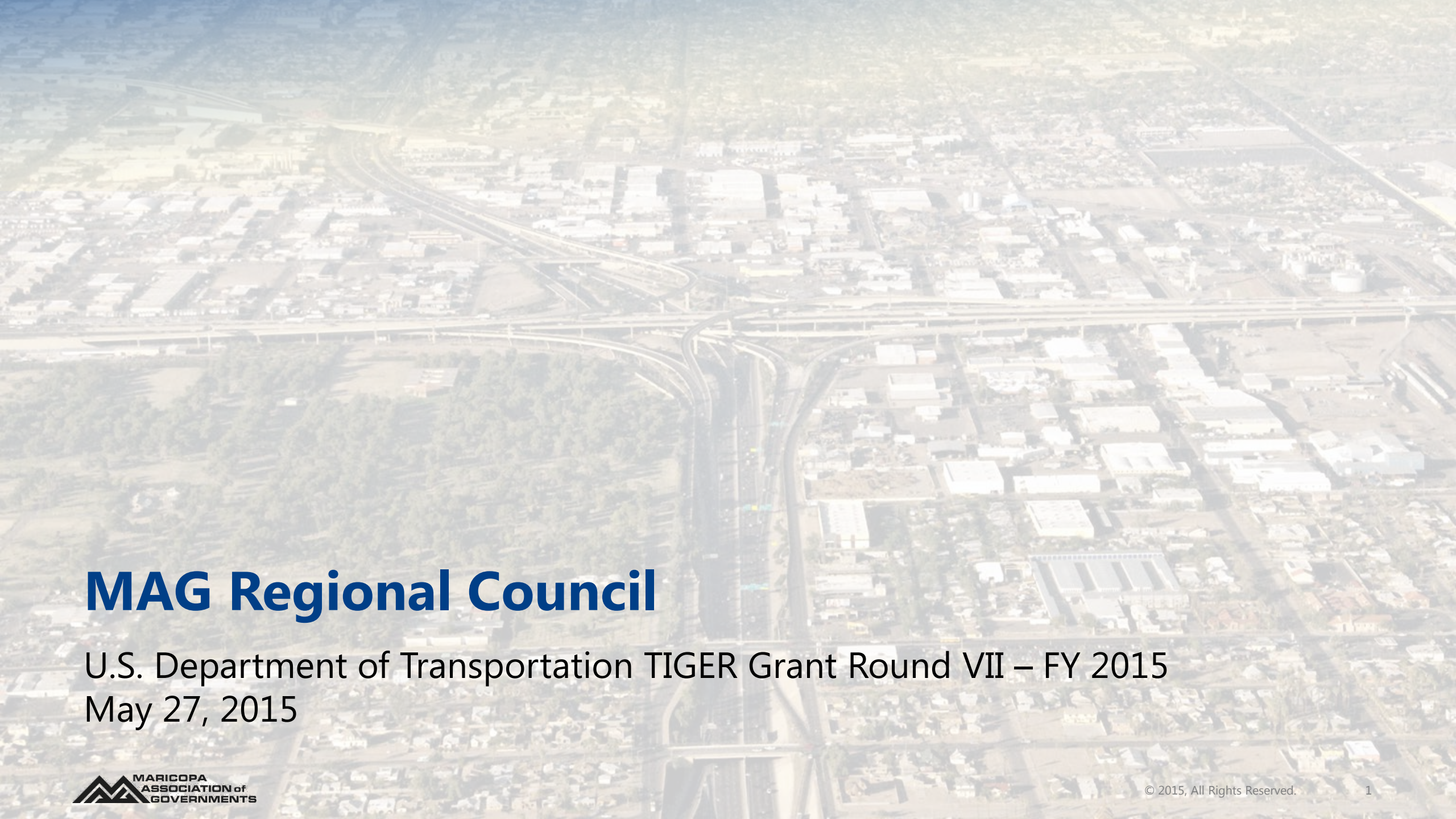

MAG Regional Council

U.S. Department of Transportation TIGER Grant Round VII – FY 2015
May 27, 2015

MARICOPA ASSOCIATION of GOVERNMENTS

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Action Item

Approval of the Interstates 10/17 Spine Corridor Improvements project for the urban area application and the SR-347 Overpass project for the rural area application for Transportation Investment Generating Economic Recovery (TIGER) Round VII discretionary grant funding.

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TIGER VII

$500 Million Nationally

URBAN $400 million

RURAL $100 million

Transformative

Innovative

MARICOPA ASSOCIATION of GOVERNMENTS

TIGER GRANTS

TIGER VII - Timeline

April 22, 2015	April 23, 2015	May 4, 2015	May 13, 2015	May 27, 2015	June 5, 2015
MAG Regional Council	MAG Transportation Review Committee	Pre-Applications Due	MAG Management Committee	MAG Regional Council	Final Applications Due

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TIGER GRANTS

I-10/I-17 Spine Corridor Improvements

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Freeways are our **highest value road assets** and therefore should be managed at all times to provide the **highest level of performance**.

A congested freeway is not a product freeway.

Approaching E 36th St, Minneapolis

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Traffic Operations and ITS Enhancements

- Focus on Interstate 17 between Interstate 10 Stack and Loop 101 North Stack traffic interchanges.
- **Active Traffic Management (ATM):**
  - Reducing potential for crashes when speed and conditions change.
  - Reducing congestion with variable speed limits, lane control, and hard shoulder running.
  - Improving reliability and enhancing information to motorists.
  - Providing meaningful traffic-flow benefits at a relatively low cost.
  - Coordinated with local communities.

Approaching West Seattle Freeway Exit 163, Seattle WA

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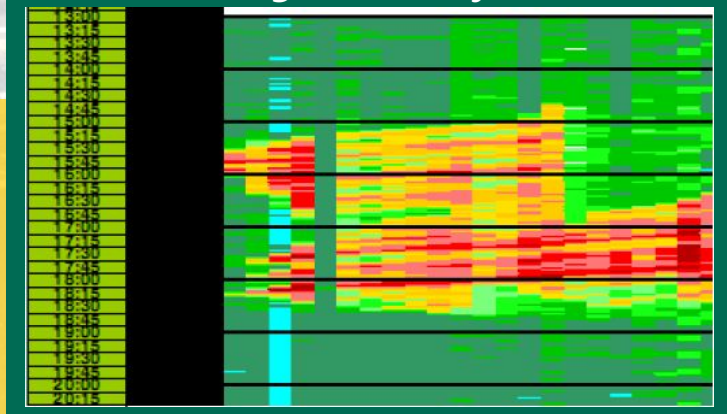
Traffic Operations and ITS Enhancements

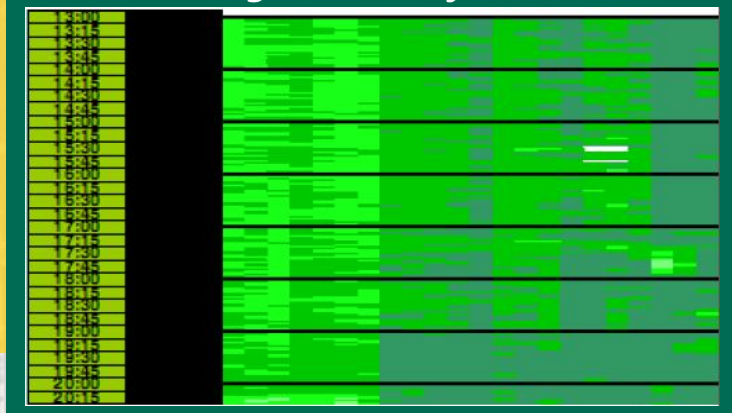
- Focus on Interstate 17 between Interstate 10 Stack and Loop 101 North Stack traffic interchanges.
- **Active Traffic Management (ATM):**
  - Reducing potential for crashes when speed and conditions change.
  - Reducing congestion with variable speed limits, lane control, and adaptive ramp metering.
  - Improving reliability and enhancing information to motorists.
  - Providing meaningful traffic-flow benefits at a relatively low cost.
  - Coordinated with local communities.

M1 Managed Motorway Speed Contour Plots
(Evening Peak Period Monash Motorway Outbound)

Before Managed Freeways (2007)



After Managed Freeways (2010)



Legend
Speed Ranges (km/h)

BIN	Low	High	LEGEND	INDEX
1	1	10	001 - 010	17
2	11	20	011 - 020	18
3	21	30	021 - 030	19
4	31	40	031 - 040	20
5	41	50	041 - 050	21
6	51	60	051 - 060	22
7	61	70	061 - 070	23
8	71	80	071 - 080	24
9	81	90	081 - 090	25
10	91	100	091 - 100	26
11	101	110	101 - 110	27
12	111	999	111 - 999	28

Source: VicRoads

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Lessons from Melbourne

- Capacity flows throughout peak periods with up to **15-20% additional throughput**.
- Shorter travel times – **delays reduced by up to 50 percent**.
- Improved **travel reliability** (or travel certainty) in a measure of day-to-day variations.
- Increased safety – **crashes reduced by 30 percent**.
- Improved farness of access providing **equity** throughout the system.

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TIGER Grant Development

- Provide for **variable speed limits** and **wrong-way driver detection** infrastructure for Interstate 17 between the I-10 Stack and Loop 101 North Stack traffic interchanges.
- Provide for continuing development of **bus ramp** between Interstate 10/Papago and Van Buren St in the Stack interchange.

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CITY OF MARICOPA
PROUD HISTORY • PROSPEROUS FUTURE

State Route 347 at UPRR Grade Separation TIGER VII Application

Submitted by:

ADOT
Arizona Department of Transportation

AK-CHIN INDIAN COMMUNITY
EQUALITY FOR ALL
FOR A BRIGHTER TOMORROW
1961
ARIZONA

CITY OF MARICOPA
PROUD HISTORY · PROSPEROUS FUTURE

UNION PACIFIC

DEPARTMENT OF TRANSPORTATION
UNITED STATES OF AMERICA

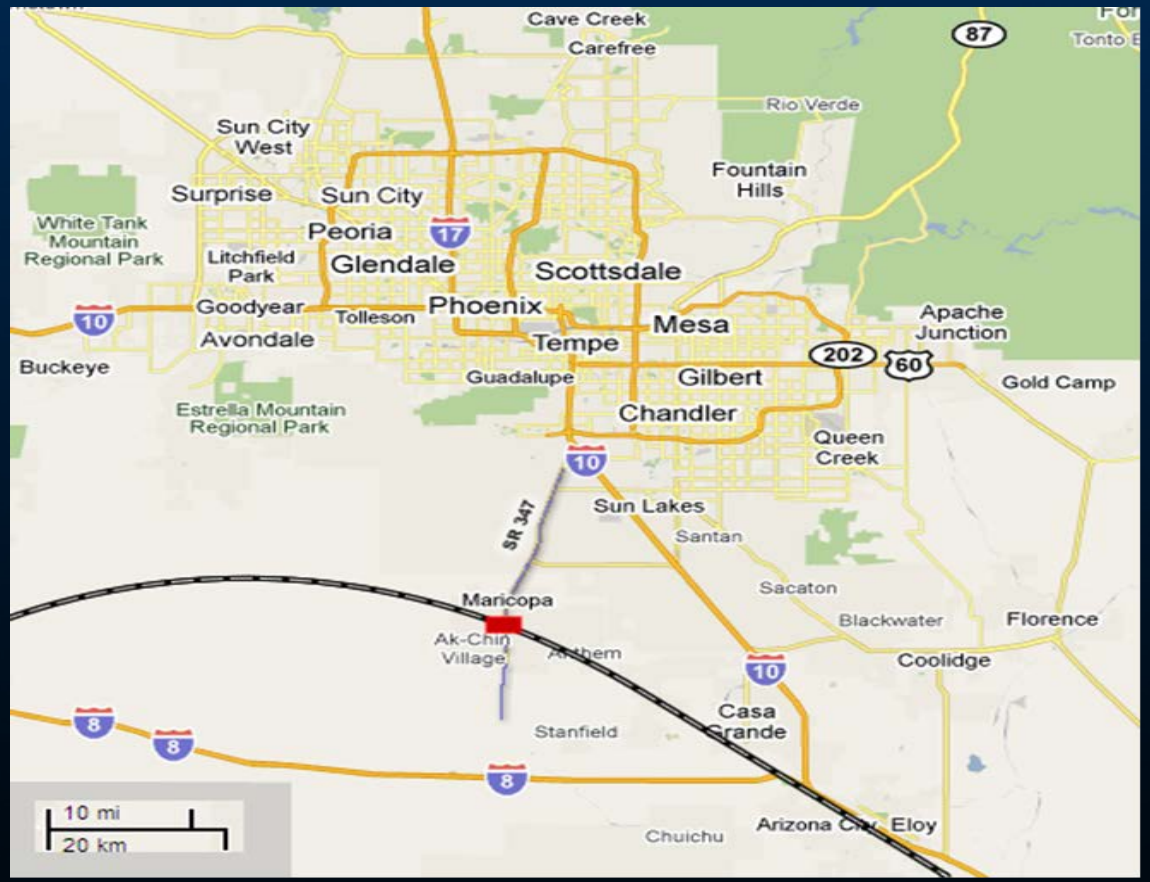
June 5, 2015

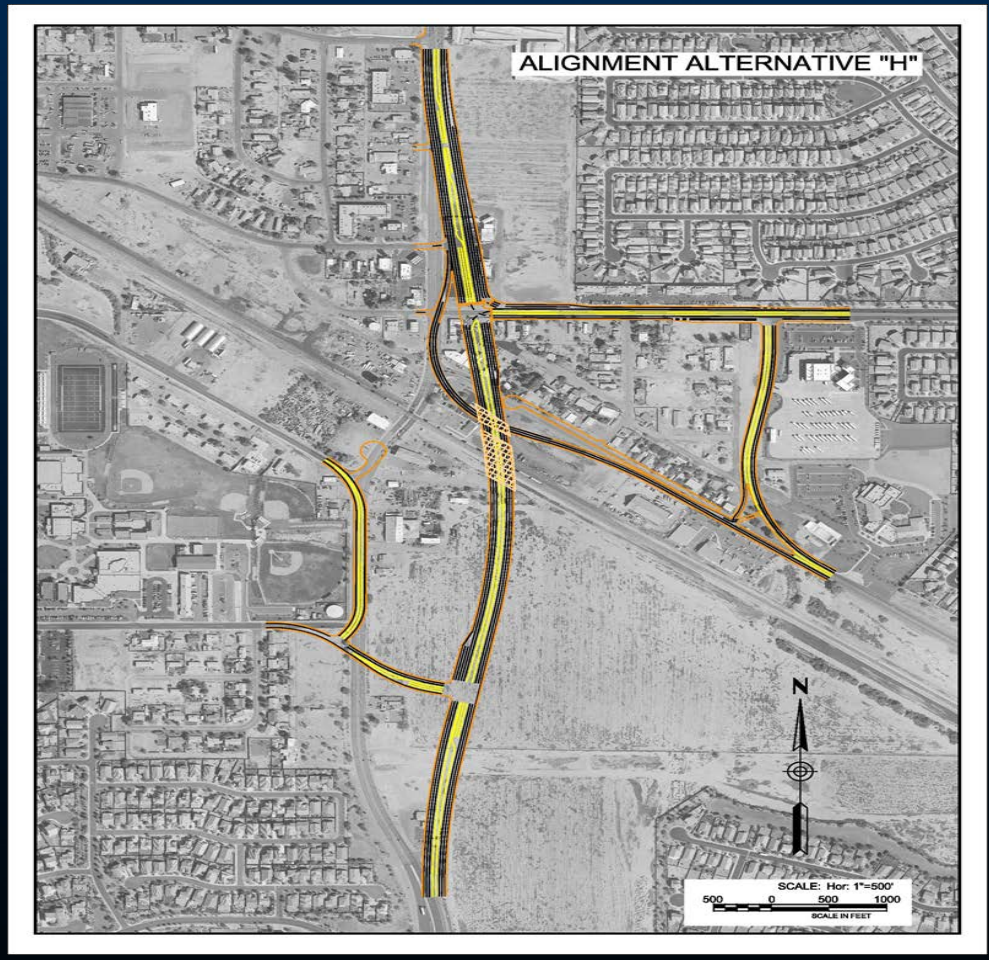
TIGER VII

Tiger Discretionary Grant Request for the

SR 347 UPRR Grade Separation

Maricopa SR-347 Grade Separation
Project Location





SR-347 Project Facts

- Maricopa Council priority since 2007
- 34,000 vehicles & 60 trains a day !
- 168 school bus/2,856 children cross each day
- Six fatalities in past 20 years
- Prior grants submitted for TIGER I thru VI
- DCR and EA/FONSI completed March 2015
- $18.8 M in ADOT 5 Year Plan (Statewide Funds)
- Project cost $54,000.000; Request $15,000,000
- This year ADOT is Primary Applicant

Downtown Maricopa

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