



Call for Projects Workshop

MAG FY2018-2022 TIP

August 21, 2017

Teri Kennedy, Steve Tate, Jodi Rooney

Today's Agenda

1. General Information & Schedule (Teri)
2. FAST Act
3. Funding
 - a) Congestion Mitigation and Air Quality Improvement Program
 - b) Surface Transportation Block Grant Program: Transportation Alternatives Infrastructure and SRTS non-infrastructure
 - c) Surface Transportation Block Grant Program: Pinal County Arterial/Bridge infrastructure
4. Applications and Eligibility (Steve)
5. Federal-aid Process, ADOT Overview (Jodi)
6. Breakout Sessions (all staff)



MAG Staff

- ❖ Dean Giles
- ❖ Jason Stephens
- ❖ John Bullen
- ❖ Margaret Boone
- ❖ Sarath Joshua
- ❖ Steve Tate
- ❖ Teri Kennedy

The image shows a screenshot of a spreadsheet titled "FY 2018-2022 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)". The spreadsheet has columns for "Project ID", "Project Location", "Project", "State (STATE)", "Work Description", "Situation", "Routing", "Project Total", "M. State Project", "On Hold Projects", and "Notes - Information". Below the spreadsheet is a graphic with a purple background. It features the "50th Anniversary" logo for the Maricopa Association of Governments (1967-2017) on the left. In the center, it says "FY 2018-2022 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)". On the right, it says "June 2017". At the bottom, there are logos for "ON THE MOVE" and "REGIONAL TRANSPORTATION PLAN". The graphic also includes several small images of transportation projects: a large highway interchange, a bus, a transit station, a road with a lane closure, and a street view.

<http://www.azmag.gov/Programs/Transportation/Programming-and-Finance/Transportation-Improvement-Program-TIP/TIP-Modal-Applications>

[Programs](#) / [Transportation](#) / [Programming and Finance](#) / [Transportation Improvement Program \(TIP\)](#) / [TIP Modal Applications](#)

TIP Modal Applications

August, 2017

The Maricopa Association of Governments (MAG) is pleased to announce a Call for Projects for Federal Highway Administration suballocated funding allocated as Congestion Mitigation and Air Quality Improvement Program (CMAQ-2.5), Congestion Mitigation and Air Quality Improvement Program (CMAQ), Transportation Alternatives (TA-MAG), and Surface Transportation Block Grant Program (STBGP-MAG). Total funding available for this announcement is estimated at \$42.8 million. Eligible region wide project types include Bicycle-Pedestrian non-infrastructure Safe Routes to School projects, Bicycle and Pedestrian infrastructure projects, Paving of unpaved road projects, Pinal County Arterial/bridge projects, and PM-10 Certified Street Sweepers.

Programming Documents

- [Memo: Call for Projects: Notice of Funding 8-7-2017 - PDF](#)
- [Programming Schedule \(General\)](#)
- [FY 2018 Street Sweeper Applications in the PM-10 Nonattainment Areas - Excel](#)
(Agencies in Maricopa and Pinal Counties non-attainment area within the MAG planning region are eligible)

Competitive FHWA Federal Fund Programming FY2018-2022 TIP

2017

August	7	Issue Call For Projects
	21	<ul style="list-style-type: none"> • Workshop on FHWA Applications, 10 a. m. – noon - Saguaro Room, 2nd Floor MAG. Breakout sessions, Palo Verde and Chaparral rooms.
September	12	<ul style="list-style-type: none"> • 10 a.m. - noon, MAG Chaparral Room, Open Working Group - Federal Fund Project Applications
	19	<ul style="list-style-type: none"> • 10 - 11 a.m., MAG Chaparral Room, Open Working Group - Federal Fund Project Applications
	25	<ul style="list-style-type: none"> • Monday, September 25th: 10:00 A.M. - Due Date and Time, signed Project Applications due to MAG. <u>Late Applications will not be accepted.</u>
	29	<ul style="list-style-type: none"> • Applications posted to Website at 5 p.m.

Competitive FHWA Federal Fund Programming FY2018-2022 TIP

October	10	Questions and Comments on Bike/Ped applications by the Bicycle and Pedestrian Committee are DUE.
	10	Street Committee: Presentations. Technical Review of PM-10 Street Sweeper, Paving unpaved roads, Pinal County arterial/bridge applications. Extended meeting time: 10:00 a.m. to 4:00 p.m.
	17	Response to Transportation Safety Committee Questions and Comments on SRTS applications are DUE.
	17	Bike/Ped Committee: Technical Review of Federal Fund Project Applications. Presentations. Extended meeting time: 9:00 a.m. to 2:00 p.m.
	26	Air Quality Technical Advisory Committee: Review evaluation of proposed PM-10 Street Sweeper projects for FY 2018 CMAQ funding. Review Bicycle/Pedestrian, PM-10/PM-2. Paving of unpaved roads evaluations.
November	8	Management Committee: Review and recommend prioritized listing of FY2018 PM-10 Certified Street Sweepers.
	14	Transportation Safety Committee: Presentations. Technical Review of Federal Fund Project Applications. Action taken on a recommended list of SRTS non-infrastructure projects. 10:00 a.m., 2nd Floor, Ironwood Room.
	14	Street Committee: Continue Technical Review of PM-10 Street Sweeper, Paving unpaved roads, Pinal County arterial/bridge applications. (if needed). Programming based on AQ scores. Extended meeting time: 1:00 p.m. to 4:00 p.m.
	23-24	Offices are closed.
	28	Bike/Ped Committee: Presentations. Technical Review of Federal Fund Project Applications. Programming if time allows. Extended meeting time: 9:00 a.m. to 2:00 p.m.

Competitive FHWA Federal Fund Programming FY2018-2022 TIP

December	6	RC: Approve prioritized listing of FY2018 PM-10 Certified Street Sweepers.
	7	TRC: Review prioritized listing of FY 2021, 22 TA-MAG non infrastructure SRTS, PM-10/2.5 Paving, STBGP Arterial/Bridge projects. Listing of FY2018 PM-10 Certified Street Sweepers, for information. Review prioritized listing of FY 2021, 22 Bike/Ped TA-MAG and CMAQ projects if ready.
	19	Bike/Ped Committee: Programming of prioritized projects (if needed).

2018

January	10	MC: Review prioritized listing of FY 2021, 22 TA-MAG non infrastructure SRTS, PM-10/2.5 Paving, STBGP Arterial/Bridge projects.
	17	TPC: Review prioritized listing of FY 2021, 22 TA-MAG non infrastructure SRTS, PM-10/2.5 Paving, STBGP Arterial/Bridge projects.
	24	RC: Review prioritized listing of FY 2021, 22 TA-MAG non infrastructure SRTS, PM-10/2.5 Paving, STBGP Arterial/Bridge projects. Data sent to GIS for mapping.
	25	TRC: Review prioritized listing of Bicycle and Pedestrian FY 2021, 22 TA-MAG infrastructure and CMAQ projects. (If missed in Dec). (MC, RC approval in February)



<http://www.fhwa.dot.gov/fastact/>

- December 4, 2015, President Obama signed the [Fixing America's Surface Transportation \(FAST\) Act](#) (Pub. L. No. 114-94) into law.
- The first federal law in over a decade to provide long-term funding certainty for surface transportation infrastructure planning and investment (through 2020).
- Continues the **Congestion Mitigation and Air Quality Improvement Program (CMAQ)** and **converts the long-standing Surface Transportation Program (STP) into the Surface Transportation *Block Grant Program (STBGP)***; that includes a set-aside of STBGP funding for Transportation Alternatives activities.

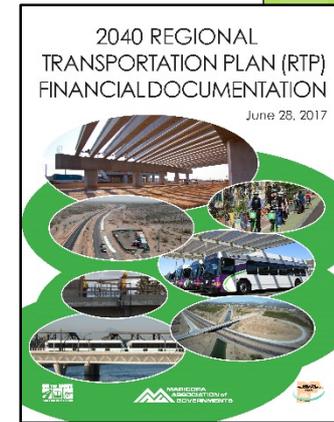


- Congestion Mitigation And Air Quality Improvement Program (CMAQ) & CMAQ 2.5
- Surface Transportation Block Grant Program
 - Transportation Alternatives (TA).*
- Match requirements continue at: 5.7% local, with 94.3% federal.

*MAG programs:

Transportation Alternatives : Safe Routes to School Eligible activities for Non-Infrastructure, studies and for Bike/Ped infrastructure projects.

- Provides funding to States for transportation projects **designed to improve air quality and reduce traffic congestion**, particularly in areas of the country that do not attain national air quality standards.
- The **RTP** provides a balanced distribution of funding for each eligible mode.
- Projects that use CMAQ funding include Bicycle-Pedestrian, PM-10 Paving, PM-10 Certified Street Sweepers, and PM-2.5 Paving.



Transportation Alternatives MAG Regional Goals (Non-infrastructure):

1. Support SRTS Studies that would identify needed improvements on walking/biking routes to k-8 schools; provide walking/biking route maps.
 2. Support bike and pedestrian activities that promote safe transportation for k-8 students to schools or address an identified or perceived safety issue on routes to k-8 schools.
 3. Engage Stakeholders (community/partners) in supporting non-infrastructure programs, thereby ensuring sustainable programs.
- Projects that use TA non-infrastructure funding include Safe Routes to School Eligible Activities such safety planning and support for bike and pedestrian activities.

Transportation Alternatives MAG Regional Goals:

1. Improve pedestrian and bicyclist accessibility and connectivity on the transportation network.
 2. Assist in providing a safe environment for the bicyclists and pedestrians on both the on-street and the off-street transportation networks.
 3. Make bicycling and walking to K-8 schools a safer and more desirable transportation alternative to motorized vehicles.
- Projects that use TA-MAG funding include Bicycle-Pedestrian-Trails infrastructure projects.

MAG Regional Goals for Pinal County STBGP:

1. Expand capacity on existing roadways or intersections of high demand
 2. Maintain and preserve the region's transportation system
 3. Address safety concerns in the existing roadway/intersection conditions
 4. Promote connectivity between high demand/capacity roadways and activity centers to advance economic viability
 5. Maintain consistency with stated jurisdictional policy
 6. Achieve a significant reduction in congestion on the region's transportation system.
- Projects that use STBGP funding in Pinal County include arterial roadway expansion-improvement, and bridges.

Table 4

MAG FEDERAL HIGHWAY ADMINISTRATION FUNDS: August Call For Projects

(Year of Expenditure Dollars in Millions, rounding may occur)

MAG Sub-Allocations FHWA Ledger: Call for Projects										
Programming Levels By Mode and MAG Program										
Year	STBGP Breakout -with OA applied		CMAQ Breakout - with OA applied				Specific Programs with OA applied			Grand Total For Programs
	Non Lifecycle	Total STBGP	Bicycle/ Ped.	PM-10 Paving	PM-10 Certified Street Sweepers	Total CMAQ	CMAQ 2.5	Trans. Altern. Urban & Non-Urban SRTS	Trans. Altern. Urban & NU, Infra- structure	
2018					1.77	1.77				1.77
2021	1.27	1.27	8.77	5.50	.00	14.27	.78	.40	4.18	20.90
2022	1.29	1.29	8.91	4.50	.00	13.41	.80	.40	4.25	20.14
18-22	\$2.56	\$2.56	\$17.67	\$10.00	\$1.77	\$29.44	\$1.58	\$0.80	\$8.43	\$42.80

OA= Obligation Authority, rates may change each year.

PM-10 Certified Street Sweeper Call is issued **annually**.

Programming Levels are not part of a current Surface Transportation Authorization and are subject to substantial change.

Project Types:

- **Arterial and Bridge projects** limited to the MAG planning area within Pinal County, in FY 2021 - \$1.27, and in FY 2022 - \$ 1.29 in federal **STBGP** funds (Design and Construction)



Project Types:

- **Bicycle and Pedestrian** projects in FYs 2021 and 2022- \$8.77 and \$8.91 million each year respectively in federal **CMAQ** funds
- **Bicycle and Pedestrian** projects in FYs 2021 and 2022- \$4.18 and \$4.25 million each year respectively in federal **TA-MAG** funds



Project Types:

- **PM-10 Certified Street Sweepers** in FY 2018 - \$1,755,209 in federal CMAQ funds.
- **Transportation Alternatives Non-Infrastructure Safe Routes to School Studies** in FYs 2021, 2022 - \$300,000 each year in federal STBGP: TA-MAG funds.
- **Transportation Alternatives Safe Routes to School – Support Activity Projects** in FYs 2021, 2022 - \$100,000 each year in federal STBGP: TA-MAG funds.



CMAQ eligible project area for each program has limitations

- PM-10 Street Sweepers and PM-10 Paving: PM-10 nonattainment area in the MAG planning region, and applicant must be a member of MAG.
- PM-2.5 Paving: PM-2.5 nonattainment area in Pinal County, and applicant must be a member of MAG.
- Bike/Ped projects 8 hour ozone area in the MAG planning region, and applicant must be a member of MAG.

Transportation Alternatives non-infrastructure eligible project area: Safe Routes to School Studies & Support Activities.

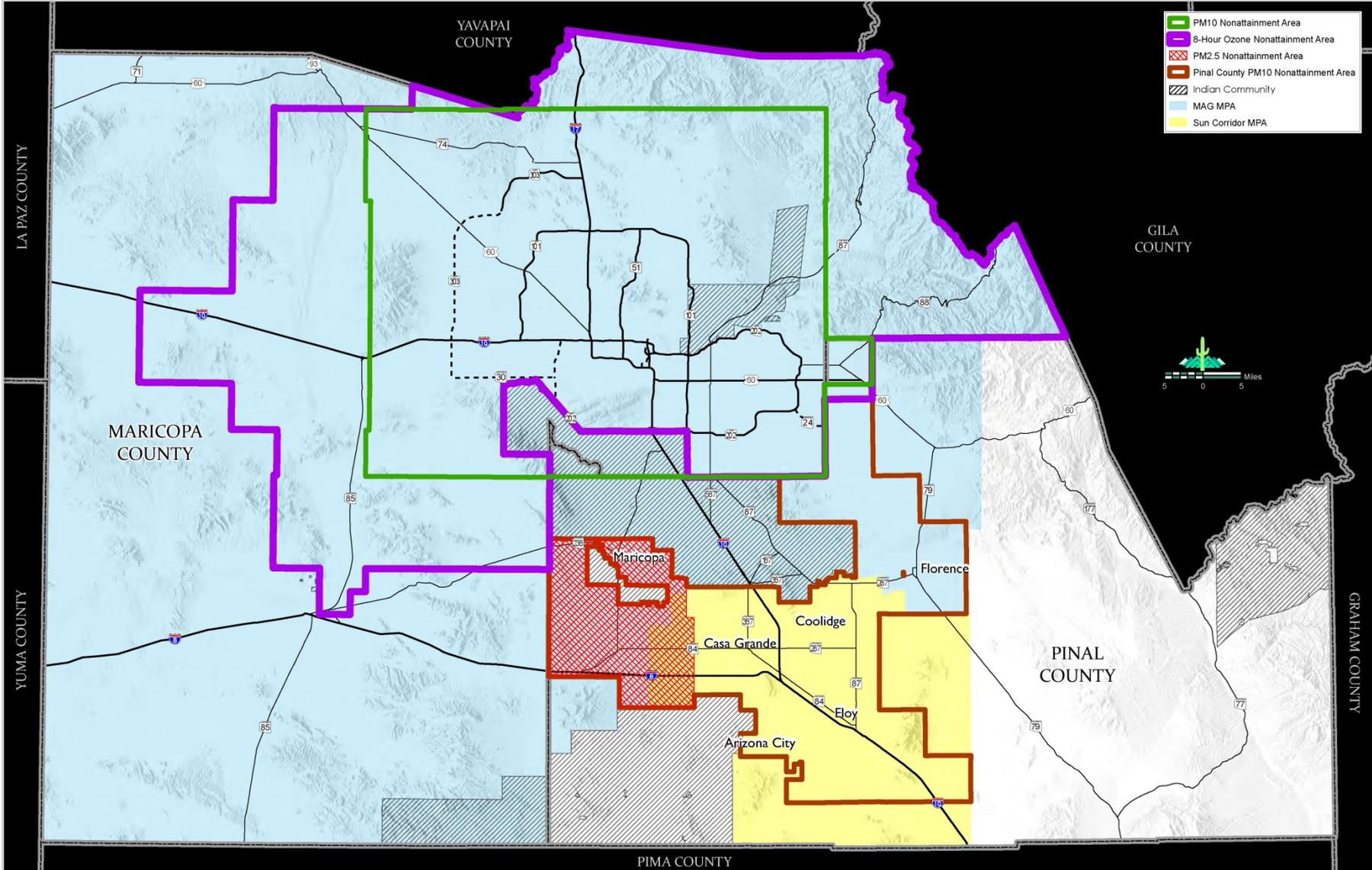
- Anywhere in the MAG planning region, and applicant must be a member of MAG.

Transportation Alternatives infrastructure eligible project area: Bike/Ped projects.

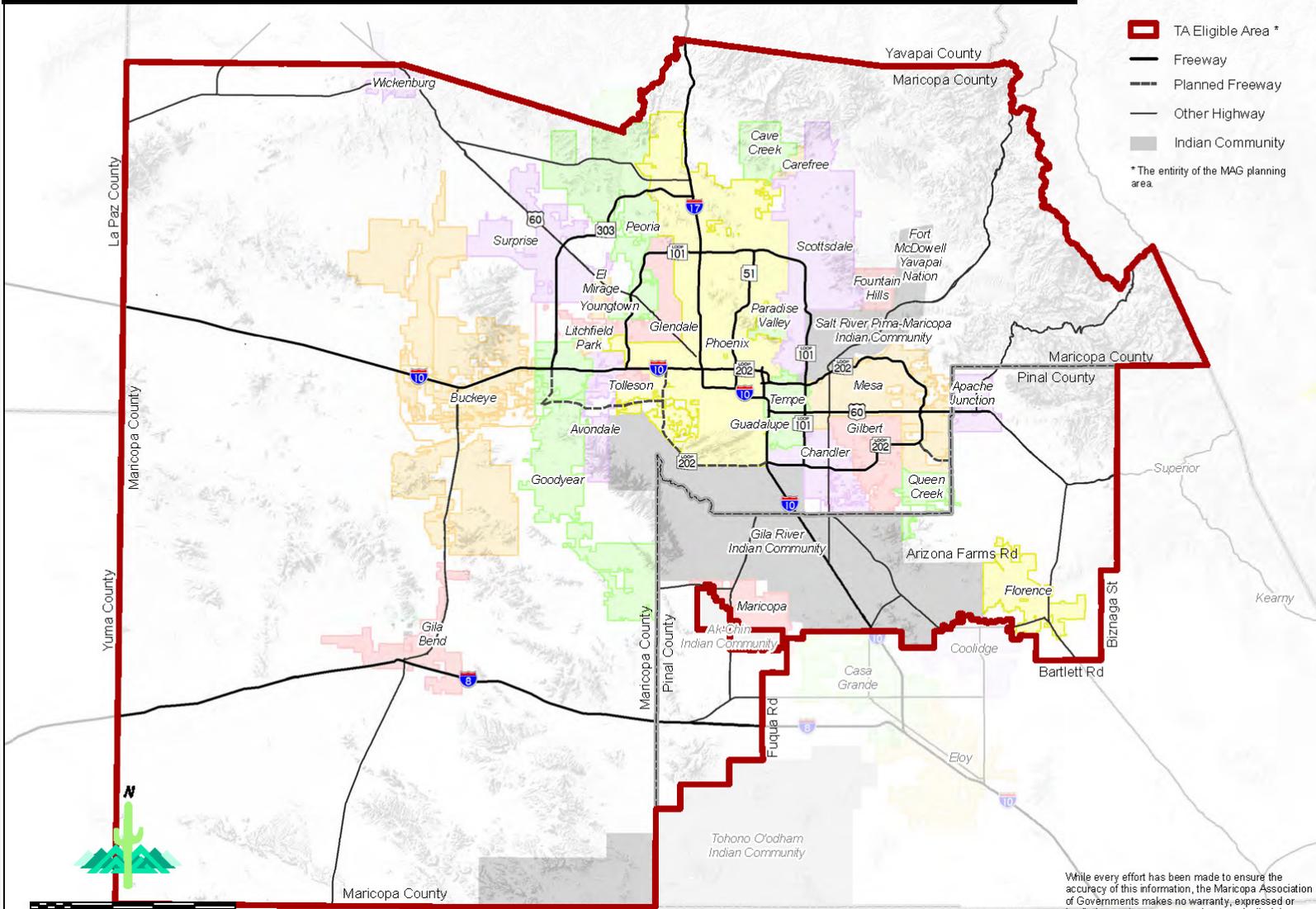
- Anywhere in the MAG planning region, and applicant must be a member of MAG.

Surface Transportation Block Grant Program eligible project area: Pinal County Arterial/Bridge:

- Anywhere in the MAG planning region within Pinal County, and applicant must be a member of MAG.



TA Bicycle/Pedestrian Infrastructure & SRTS Application Area



- TA Eligible Area *
 - Freeway
 - Planned Freeway
 - Other Highway
 - Indian Community
- * The entirety of the MAG planning area.



0 5 10 15 20 25 Miles
Date: July 2015

While every effort has been made to ensure the accuracy of this information, the Maricopa Association of Governments makes no warranty, expressed or implied, as to its accuracy and expressly disclaims liability for the accuracy thereof.

- MAG Staff will insure that **applications received are complete**. Basic eligibility review will be completed and then applications will be **posted to website**.
- Applicants will receive a receipt that their applications was received and was complete or incomplete.
- Modal Committee will **review applications prior to the first meeting**.
- At the Bike/Ped, Street, and Transportation Safety Committee meetings, **each applicant will present their project(s)** with a pre-generated powerpoint that is composed of photos and graphics from their application. Each applicant will have not more than 5 minutes with a 5 minute Q and A by the committee.
- *No individual presentations will be provided for Street Sweepers. However questions by Street Committee may be made to the applicant, the applicant should be present.*

For each applicant, the Bike/Ped, Street, and Transportation Safety Committees will determine the following:

- **Project definitional adequacy.** The committee will determine that the project is defined in sufficient detail to allow technical review.
- **Project feasibility.** The committee will determine that the project is free from fatal flaws (e.g. commitment to maintain or operate, or adequate budget is included) that would prevent it from being implemented.
- **Schedule adequacy.** The committee will determine that the schedule laid out for the project, including locally funded work phases is reasonable and adequate for the year the project is requested to be authorized.
- **Cost estimate adequacy.** The committee will determine that cost estimates for the project are reasonable, accurate and account for all work phases (e.g. preliminary engineering, specifications, procurement, etc.) and fees (e.g. ADOT review fees) necessary to complete the project.
- **Performance data adequacy.** The committee will determine that performance data (e.g. ADT, miles of sweeping) or surrogate measures used to determine performance (e.g. number of walkers along a route) is reasonable and well documented.

For each applicant, the committee will determine the following:

- **Revisions.** If there are outstanding questions concerning the project, MAG may require the sponsoring agency to revise its application to address the questions. **If an updated application is required, the sponsoring agency has one week** (five business days) **to provide an updated application.** The revisions will be presented at the second meeting of the Committee.
- **Second meeting (If needed)– project ranking.** At the second meeting the committee will review and address outstanding issues from the previous meeting and recommend a ranked listing of projects for review by the Transportation Review Committee. The ranked list will include all projects presented to the Committee along with the committee's determinations and the results of required analyses as identified. **If there are no outstanding issues from the information review, this meeting may be combined with the first meeting.**

For each project type, the evaluation will use the following:

Air Quality Cost Effectiveness Analysis

- ❑ PM-10 Certified Street Sweepers (Procurement)
- ❑ PM-10 and PM-2.5 Paving (Construction)

Safe Routes to School Evaluation Criteria

- ❑ Title 1 school(s), Five E's, Safety Criteria, Project sustainability



For each project type, the evaluation will use the following:

Congestion Management Process (CMP)

- ❑ Arterial and Bridge projects Pinal County (Design and Construction)

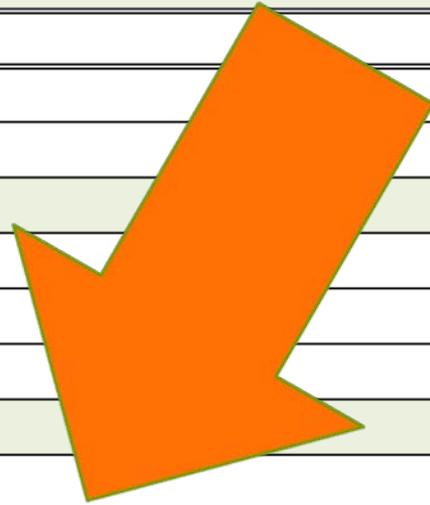
Blended Air Quality Cost Effectiveness Analysis & Congestion Management Process (CMP)

- ❑ Bicycle-Pedestrian infrastructure (Construction, or Procurement/installation)

2. Local Agency Contact Information (Joint Application):

Applications that include Studies for one or more schools located either in part or entirely in another jurisdiction must be endorsed by that local agency. **Please select the Endorsing Local Agency below and obtain their signature(s) to complete Part F.** Please select up to three (3) Local Agency (endorsing agency) name(s) by selecting from the drop down box provided next to "Local Agency". Once the Local Agency is selected, the appropriate contact information will automatically populate for you based on your selection. (See Note below)

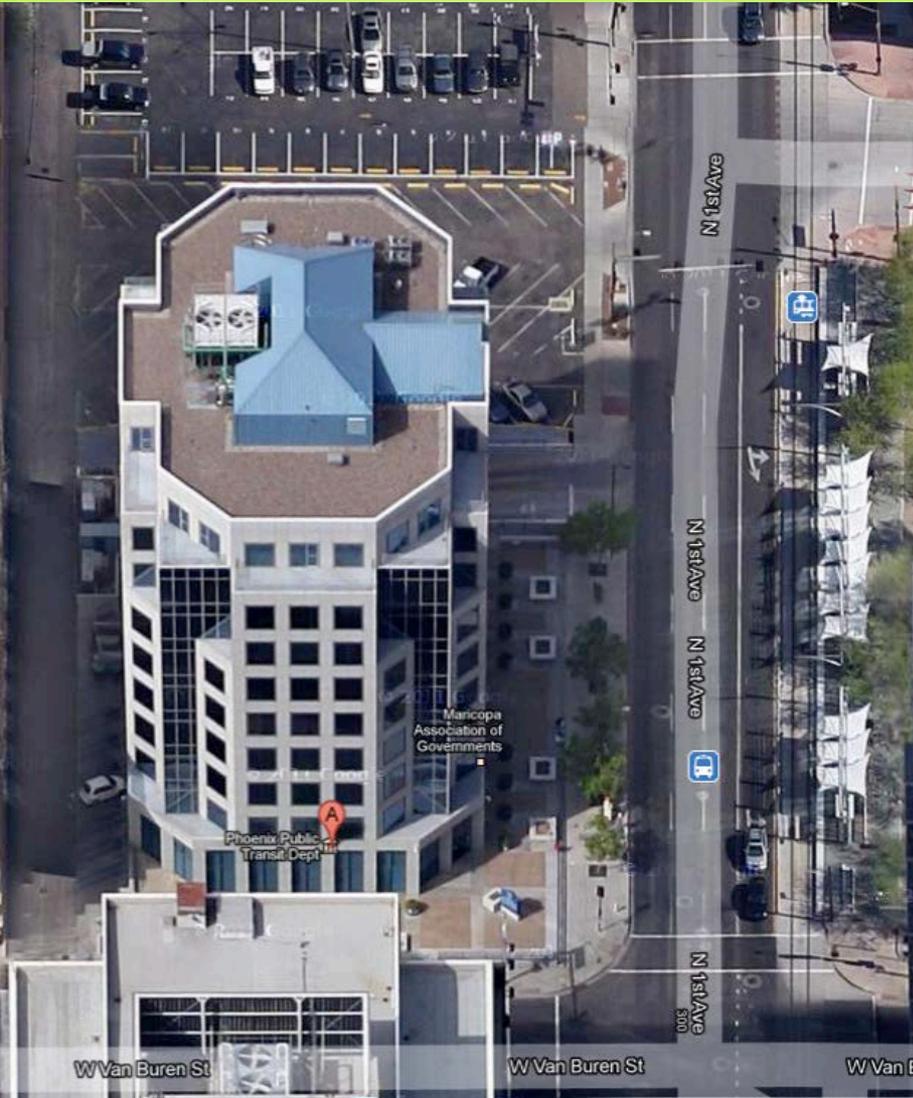
Local Agency Contact #1	Local Agency:	
	Contact Name:	
	Phone Number:	
	E-mail Address:	
Local Agency Contact #2	Local Agency:	
	Contact Name:	
	Phone Number:	
	E-mail Address:	
Local Agency Contact #3	Local Agency:	
	Contact Name:	
	Phone Number:	



Maps

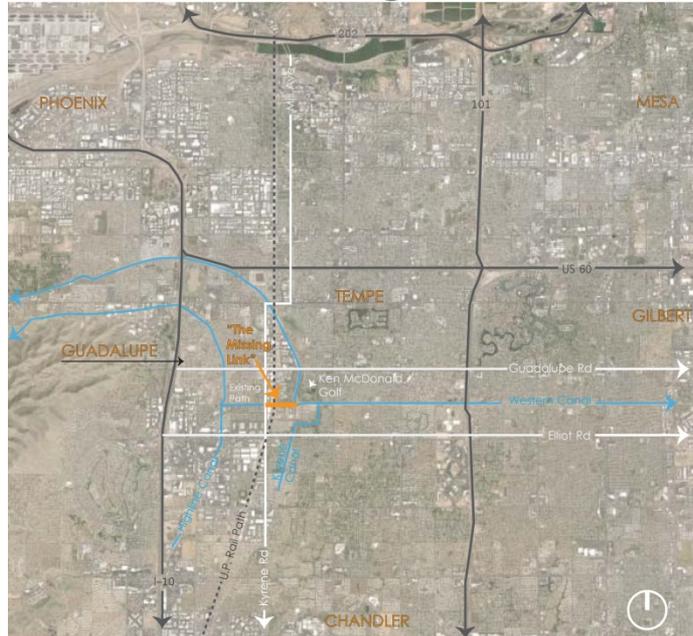
Give the viewer a sense of where the project is located

- Condition of the surrounding area
- If possible, use aerial imagery
- Google maps – it's Free!
- www.google.com/maps



Relational Map

The Missing Link



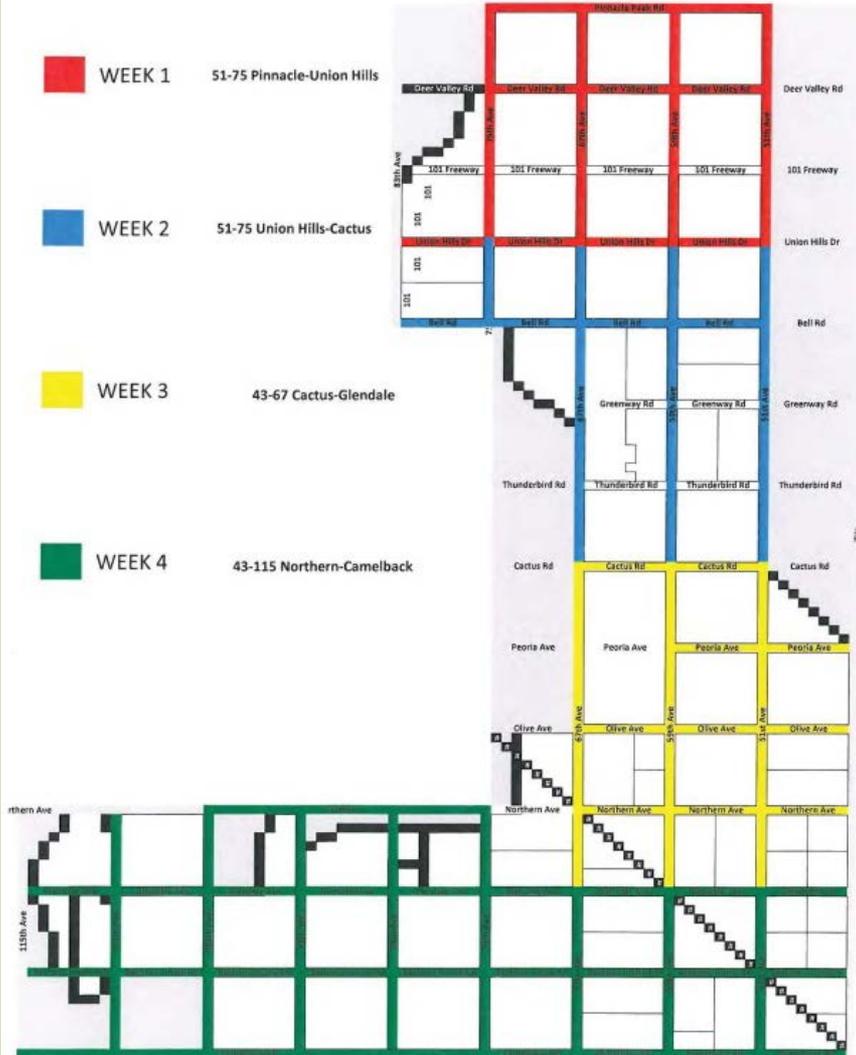
Segment Detail Map

Attachment 2 - Western Canal Path/The Missing Link



Sweeping Map

STREET SWEEPING MAIN ARTERIALS MONTHLY SCHEDULE



Required

- Proposed project site or route for service.

All Applications:

- Required:
 - Cost estimate (budget worksheet included)
 - ADOT Admin Fee is required for SRTS Support Activities and all infrastructure projects; see fee schedule in each application.
 - Contingency
 - Requested MAG Programming –
 - PM-10 Certified Street Sweepers FY2018.
 - SRTS, Bike/Ped, Paving, Arterial/Bridge: Select which year (2021 or 2022) is your first preference.
 - Federally funded work phase match is **94.3-5.7%***



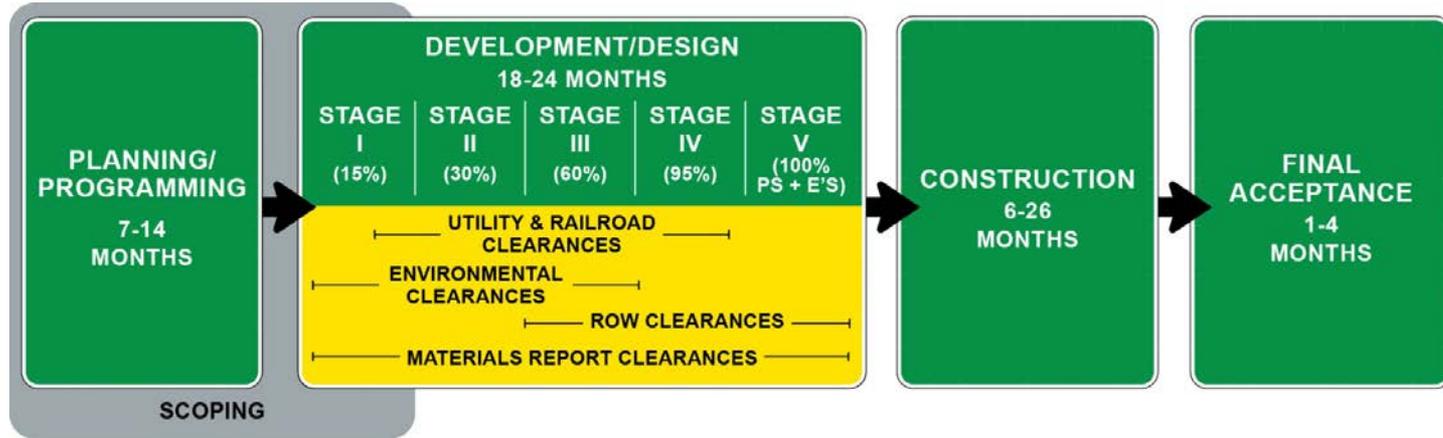
Who is the jurisdiction's manager/administrator or designated representative?

- A jurisdiction's manager/administrator is the City/Town/Agency/Community Manager. A designated representative of a jurisdiction is an employed staff person of the jurisdiction designated by the chief administrator to sign MAG funding request documents on behalf of that jurisdiction.

1. Transmit Application electronically – Keep in excel format, support items including photos, graphics, etc., can be in pdf. ***GIS shape files of project are appreciated.***
2. Submit 1 signed copy to MAG by **10:00 A.M.**
Early apps appreciated!
 - Drop off or mail
 - *Running late* – Fax over signed copies, or scan and send.

Monday, September 25, 2017 10:00 A.M.

Late applications will not be accepted



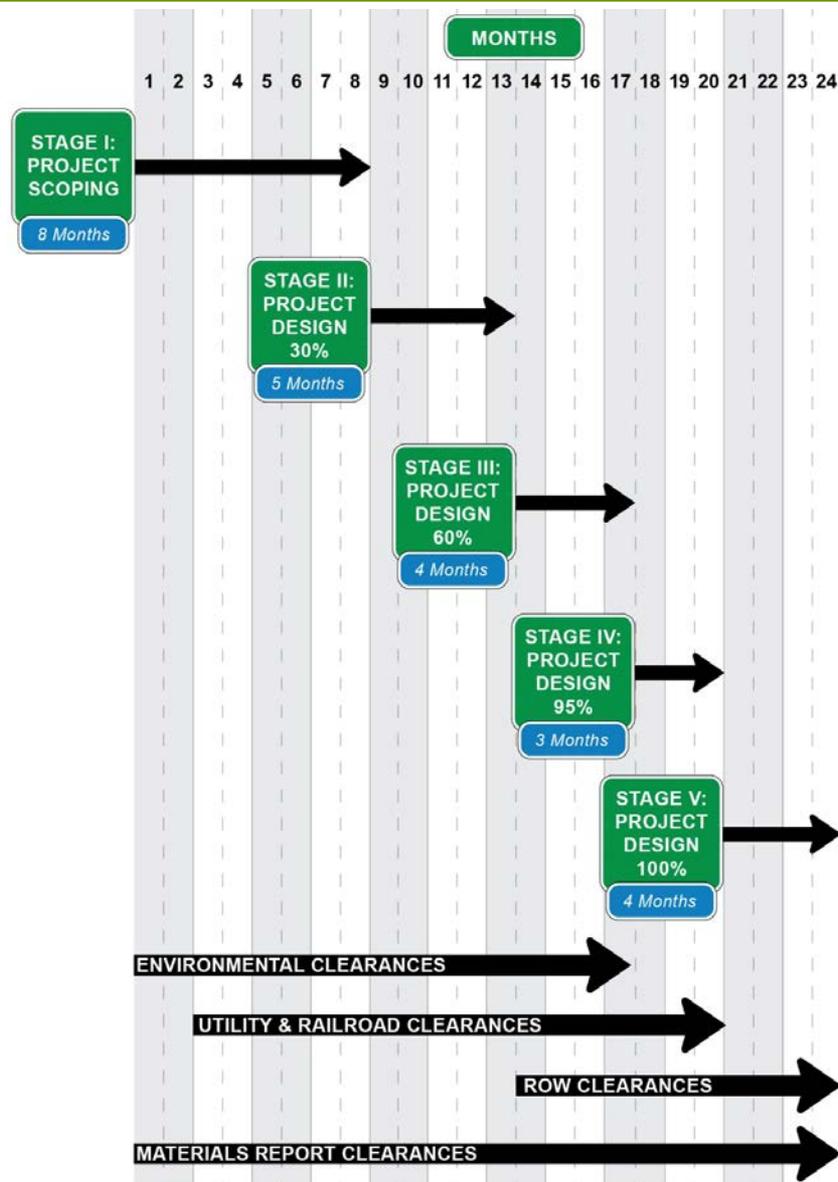
The Federal-Aid **Project Development Process** consists of multiple steps

Let's take a "high level" look at major project milestones

- **Phases**
 - Local Public Agencies (LPAs) move through these phases to satisfy requirements of the federal-aid highway program so the project is eligible for federal funding \$\$\$

Federal-aid Process

Development/Design
18-24 Months





ADOT partners with Councils of Governments (COGs) and Metropolitan Planning Organizations (MPOs) as a conduit for federal funding to the local public agencies.

Planning/Programming 7-14 months

- Project and funding is identified
- All phases of the project are programmed in the TIP and STIP¹
- ADOT² and Federal project numbers are assigned for tracking and funding purposes
- Scoping

TIP=Transportation Improvement Program

STIP¹=State Transportation Improvement Program

ADOT² =a state assigned number for identification/tracking purposes



- Send project initiation request to ADOT
- Intergovernmental agreement (IGA) is initiated by ADOT

Development/Design

- 15% Plans
 - Scoping completed
 - Determines the purpose & need for a project
 - Defines what is to be included in the project
 - Established appropriate design criteria
 - Identifies problems and constraints
 - Provides the first detailed cost estimate
 - Initial documentation provided to ADOT, i.e. Scoping Letter, Project Assessment (PA) or Design Concept Report (DCR)



Changes in the project scope can significantly impact the environmental clearance and require a need for re-evaluation, which can cause time delays and increase the project cost.

Development/Design

- 30% Plans
 - Design can proceed up to 60% with ADOT project manager approval; NEPA requirements have to be satisfied
- Clearances may be in process
 - Environmental
 - Utilities



Plans are being refined in this phase. The “footprint” is set.

Development/Design

- 60% Plans
 - Clearances
 - Environmental (completed)
 - Utility/Railroad
 - Right of Way (ROW) (these two clearances are in process)



Development/Design Phase

- 95% Plans
 - Utility/Railroad and ROW working to be cleared

During this phase, local public agencies coordinate with utility companies to define how utility conflicts will be resolved.



Costs incurred PRIOR to *authorization* are NOT eligible for reimbursement.

Development/Design Phase

- 100% Plans, Specifications & Estimate (PS&E)
 - Clearances have to be complete:
 - Utility/Railroad
 - Environmental
 - ROW
 - Materials Memo
 - *Funding Authorization* \$\$\$
 - The project is advertised



ADOT is responsible for ensuring that Local Public Agencies are in compliance with:

- all federal procurement requirements
- providing adequate inspection & supervision
- meeting FHWA closeout requirements
- environmental mitigation measures

Construction Phase

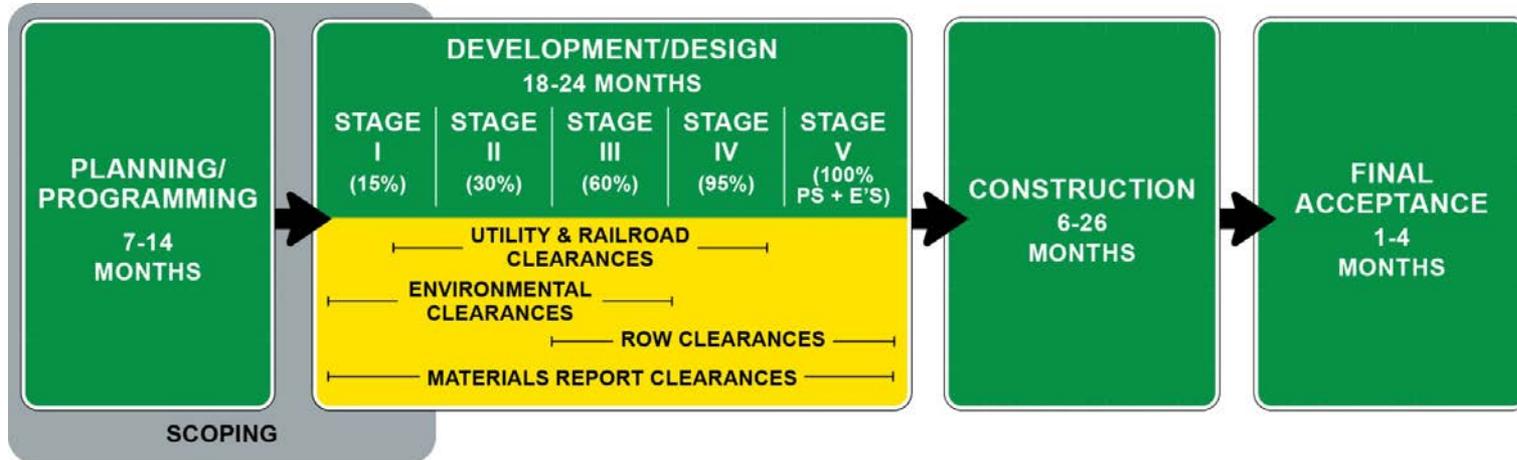
6-26 months

- Award
- Construction administration
- Construction oversight
- Mitigation

Final Acceptance

1-4 Months

A final walk-through and inspection by ADOT, and occasionally FHWA, is conducted to evaluate compliance with contract documents and federal-aid requirements.



The project is not closed out until FHWA records the final voucher payment.

ADOT LPA Section Contacts/Resources

Contacts

- Jodi Rooney
Local Public Agency Section Manager
602.712.8427
jrooney@azdot.gov

Program Branch

- Mark Henige
Program Manager
602.712.7132
MHenige@azdot.gov
- Tricia Lewis
Program Supervisor
928.326.1062
TLewis@azdot.gov

- LPA Projects Manual
<https://www.azdot.gov/docs/default-source/business/lpa-manual.pdf?sfvrsn=50>
- Federal-aid Essentials
for Local Public Agencies
<http://www.fhwa.dot.gov/federal-aidessentials/index.cfm>
- LPA Section Website
<https://www.azdot.gov/business/programs-and-partnerships/LocalPublicAgency/overview>

Thank you

Break out Sessions 11:00-Noon

Saguaro Room (here)

- **CMAQ:** Paving Unpaved Roads
- **CMAQ:** Street Sweepers
 - ❖ Dean Giles, Steve Tate, Teri Kennedy

Cottonwood Room

- **TA:** Safe Routes to School
 - ❖ Sarath Joshua

Juniper Room

- **STBGP:** Pinal County Arterial/Bridge
 - ❖ John Bullen

Ironwood Room

- **CMAQ and TA:** Bike/Ped Projects
 - ❖ Jason Stephens

What the sweeper will be used for:

- Replace a noncertified sweeper
- Expand service area
- Increase sweeping frequency
- Replace an older certified sweeper
- Sweeping cycle length
- Lane miles
- Average weekday traffic
- Detailed price estimate from vendor is required
- 5% Plan for PM-10 includes street sweepers
- Location & maps of where street sweeper will be used
- Sweeper fleet
- Federal, Local, and Total eligible costs for sweeper
- **Additional local costs – not eligible**
- Maintenance of Sweepers is agency's responsibility for useful life of the vehicle.

- ADOT Policies and Procedures - Federal Property Management Standards, Section 8.07
- **Important: ADOT Approval Is Required Prior To Street Sweeper Disposals**
- Disposal requests are to be sent in writing to Dean Giles, MAG, and are to include:
 - Complete description of item to be disposed, reason for disposal, and manner of sale.