

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP Cover Sheet

SCT-0

General Instructions: This form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments for Intelligent Transportation System (ITS) projects to be included in the FY 2008-2012 MAG Transportation Improvement Program. Currently, funding is available ONLY for programming projects that seek to implement ITS improvements on the arterial street system. A total of \$12.3 million is available for programming ITS projects in the following amounts: **FY 2008 – \$2.43M, FY 2009 - \$2.49M, FY 2010 - \$2.04M and FY 2012 - \$5.34M.**

Separate application forms are available for bicycle, pedestrian and transit projects. Also, a general application form is provided for projects that do not fit the categories listed. Freeway, street and rail transit projects will be programmed in a separate process, so please **DO NOT** use the general form to apply for funding for freeway, street and rail transit projects.

This application form includes:

- **Part A: Project Description and TIP Listing Information.** In Part A, the applicant provides the minimum information necessary to list a project in the TIP as required by applicable federal regulations and general descriptive information necessary for MAG staff and technical committees to evaluate the project.
- **Part B: Project Congestion Management System (CMS) and Congestion Mitigation Air Quality (CMAQ) Data:** In Part B, the applicant provides data necessary for MAG staff to calculate CMS and CMAQ scores for projects.
- **Part C: MAG Technical Committee Additional Information.** This section provides guidelines for submission of ITS projects. The MAG ITS Committee is charged with evaluating and recommending ITS projects for federal funding.

Deadlines and Transmittal Instructions: This form should be completed and returned to MAG Offices by **5:00 p.m. September 1, 2006.** The mailing address and FAX number for the MAG offices is:

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003
FAX Number: (602) 254-6490

Maricopa Association of Governments
Received

AUG 24 2006

If you wish to e-mail this information, please send it to state@mag.maricopa.gov.

Electronic Download Information: A downloadable version of these forms in Microsoft Word is available on the MAG website at www.mag.maricopa.gov. If requested, MAG staff will also provide these forms via e-mail or FAX.

MAG Contact Information: If you have any questions, please contact Stephen Tate or Paul Ward at (602) 254-6300 or at state@mag.maricopa.gov.

Agency Contact Information: Please complete the following contact information for each project, so that we may contact you should we need additional information.

1. Name of the Agency Contact for the Project Request: Bruce Dressel, ITS Manager	2. Telephone: 480-312-2358
3. E-mail bdressel@scottsdaleaz.gov	4. Date: 8/11/06

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP

Part A: Project TIP Listing Information and Description

General Instructions: This form is to be used to request federal Congestion Mitigation and Air Quality (CMAQ) funding available through the Maricopa Association of Governments for Intelligent Transportation System (ITS) projects to be included in the FY 2008-2012 MAG Transportation Improvement Program. Currently, funding is available **ONLY** for programming projects that seek to implement ITS improvements on the arterial street system. Freeway ITS improvements, through 2024, have been programmed.

Separate application forms are available for bicycle, pedestrian and transit projects. Also, a general application form is provided for projects that do not fit the categories listed. Freeway, street and rail transit projects will be programmed in a separate process, so please **DO NOT** use the general form to apply for funding for freeway, street and rail transit projects.

Section One: TIP Listing Information.

Please complete the following information for **all** projects. If the project is accepted for MAG federal funding, the project information provided in this section will appear in the TIP as provided by the applicant

1. Sponsoring Agency Name: City of Scottsdale	2. Year (Please check <u>only one</u> box): FY 2008 <input checked="" type="checkbox"/> FY 2009 <input type="checkbox"/> FY 2010 <input type="checkbox"/> FY 2012
3. Project Location (The project limits if applicable): South Scottsdale	
4. Type of Work (Description of the work to be performed): Controller and cabinet replacement	
5. Amount of Federal Funds Requested (This amount cannot exceed 70.0 percent of the total cost of the project.): \$250,000	6. Type of Federal Funds Requested (Please check <u>only one</u> box.): <input type="checkbox"/> MAG STP <input checked="" type="checkbox"/> CMAQ
7. Amount of Local Funds to be Used (This amount cannot be less than 30.0 percent of the total cost of the project.): \$250,000	8. Type of Local Funds to be Used: (Please check <u>only one</u> box.): <input type="checkbox"/> HURF <input type="checkbox"/> Impact Fees <input type="checkbox"/> General Fund <input type="checkbox"/> Bond Proceeds <input checked="" type="checkbox"/> Sales Tax <input type="checkbox"/> Private <input type="checkbox"/> Property Tax <input type="checkbox"/> Other, Please specify: _____
9. Total Cost of the Project: (This amount must equal the sum of the federal and local amounts requested): \$500,000.00	

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP Part A: Project TIP Listing Information and Description

Section Two: Project Description

Please complete the following information for all projects. The information provided is necessary for MAG staff and modal technical advisory committees (TACs) to understand and evaluate the federal funding request. Information supplied under items 1, 2 and 3 will be provided to the TACs as part of the evaluation process.

1. Please attach a map, drawing, photograph, plans or other graphic showing the location of the project. If no graphic is available or it is not feasible to provide one, please indicate this fact in the space below.

This project will install controllers in the south area of Scottsdale, from Indian School to Shea, and 64th Street to Pima Road.

2. Please attach a description of the project. This description should be no longer than 150 words and should include a description of the work to be performed, whether the project includes equipment purchase only, design, right-of-way acquisition and construction phases, and the relationship of the project to other programmed and planned projects in the TIP, ITS Strategic Plan, Regional Transportation Plan, local capital improvement programs or local plans.

3. Please attach an explanation of why the project should receive MAG federal funding. This explanation should be no longer than 150 words and should describe the problem or goal the project is intended to address. If CMAQ funding is requested the explanation should indicate what air quality benefits are to be achieved by the project. The explanation could also describe the project's expected congestion mitigation or reduction impacts, service to underserved communities, safety benefits, usage levels, advancement of regional or multi-jurisdictional goals, improvement in network continuity and accessibility and other benefits.

4. Please provide a cost breakdown for the project including quantities and unit costs used. This information is requested only for the purpose of aiding MAG staff in determining the eligibility of the project for the federal funding requested and for identifying potential problems with the cost estimate.

5. Please provide a schedule for obligating the project. Generally a construction project will require 18 months to design and obtain environmental, right-of-way and utilities clearance necessary to obligate the project. A design project will generally require 3 to 6 months to obligate.

CMAQ Funded Controller Replacement Project Calendar Years 2008 – 2010 City Of Scottsdale

This will be a three year project to replace all of the existing traffic signal controllers in Scottsdale. Currently, Scottsdale operates and maintains 276 traffic signals, with 10 new intersections expected to come on line in 2006. The existing 170 controllers have been in operation in Scottsdale for 20 years, with recent upgrades to HC11 170 controllers. All of the controllers have utilized Wapiti firmware which has been controlled by Transcore Series 2000 central software system.

While the current configuration was considered state of the art during its time, many improvements have allowed controller functionality to improve, including the increase in detector inputs and how those inputs are utilized.

Scottsdale will embark on several new configurations over the next five years, to include increased detection in the field, new functionality with controller firmware to utilize the increased detection inputs, and demand signal timing. Most of the new controllers will be converted to Internet Protocol Communications, (IP).

The project will replace approx. 100 controllers each year, and approx. 20 controller cabinets with additional detector slots for expansion. All of these installs will be on or in existing cabinets and foundations.

Justification for Controller Replacement

This project is ideal for CMAQ funding because ITS can relieve congestion by reducing traffic incidents through better traffic flow coordination. This project will improve existing transportation corridors and help to maintain smooth traffic flow. Replacement of these controllers and cabinets will link to existing and planned improvements in Scottsdale.

Scottsdale adopted an ITS Strategic Plan in April 2004. A complete copy of the Plan is available on the City of Scottsdale Website at www.scottsdaleaz.gov, *keyword traffic management*. According to the Plan, the objectives of ITS in Scottsdale are to (1) hold travel times on city streets steady, and, where possible, reduce travel time, even as traffic volume continues to grow; (2) reduce traffic incident delay; and (3) communicate rapidly among the Police Department, Emergency Services, Arizona Department of Transportation, Fire, vehicle drivers and Traffic Management Center to enhance roadway safety.

To address operations and maintenance goals and resources, Scottsdale annually reviews the Scottsdale ITS Strategic Plan during the City budget evaluation process. Operating plans need to keep pace with changing technology and to evolve with the City's changing resource environment. Approximately \$1.1 million is spent annually by the Municipal Services Department to provide electricity and maintain traffic signals, while the Transportation Department spends approximately \$500,000 annually to manage traffic flow and signalization, and to operate the Traffic Management Center and other ITS devices. All ITS devices are integrated with a central coordinated electronic traffic signal system, and linked to a Traffic Management Center where professionals manage and operate the signals and variable message signs using real-time information.

Estimated Cost of Replacements

Very little construction will occur with this project. Virtually all of the controllers will be installed in existing signal cabinets.

Where cabinets will be changed out, existing cabinet foundations will be utilized. All cabinet and controller replacements will be completed by City forces. Listed below are the estimated cost for cabinets and controllers:

Controllers with firmware = \$4000 each

Cabinets and controller = \$7000 each

Assumption is that just over 100 intersections will be converted each year, from 2008 through 2010.

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Part B: CMS and CMAQ Data

General Instructions: In Part B, the applicant provides data necessary for MAG staff to calculate Congestion Management System (CMS) and CMAQ scores for projects.

Section One: Congestion Management System and CMAQ Data

Please complete the following information for all street projects. The information used in this section is used to calculate CMS scores.

1. Current Average Daily Traffic (ADT) on the Facility or the Nearest Parallel Facility of a Similar Type:	2. Name of the Roadway Section Used for the ADT Estimate:	3. Type of Facility to be Improved (Check only <u>one</u> box): <input type="checkbox"/> Arterial > 4 legs (e.g. Grand) <input type="checkbox"/> Arterial Street <input type="checkbox"/> Collector Street <input type="checkbox"/> Other
4. Number of Through Lanes Currently on the Facility Prior to Project Completion (Do <u>not</u> include right, left or center turn lanes):	5. Number of Through Lanes on the Facility After the Project is Completed (Do <u>not</u> include auxiliary lanes):	6. Length of the Facility (in miles):
7. Township Coordinate of the Midpoint of the Facility:	8. Range Coordinate of the Midpoint of the Facility:	9. Section Coordinate of the Midpoint of the Facility:

10. If the project is expected to improve traffic signal coordination, please do the following:

- a. Enter the pre-improvement (current) traffic speed of the traffic corridor:
- b. In the Table Check the Box in The Row That Best Describes the Project (Check Only One Box):

	Before (Pre-Improvement) Condition	After (Post Improvement) Condition	Expected Increase In Speed
<input type="checkbox"/>	Non-interconnected, pre-timed signals with old timing plan	Advanced computer-based control	25.0 percent
	Interconnected, pre-timed signals with old timing plan	Advanced computer-based control	17.5 percent
<input type="checkbox"/>	Non-interconnected signals with traffic-actuated controllers	Advanced computer-based control	16.0 percent
<input checked="" type="checkbox"/>	Interconnected, pre-timed signals with actively managed timing	Advanced computer-based control	8.0 percent
<input type="checkbox"/>	Interconnected, pre-timed signals with various forms of master control and various qualities of timing plans	Optimization of signal timing plans. No change in hardware	12.0 percent
<input type="checkbox"/>	Non-interconnected, pre-timed signals with old timing plan	Optimization of Signal Timing Plans	7.5 percent

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP
Part B: CMS and CMAQ Data

11. Other Project Information: (Check as many as are applicable):

- Includes Traffic Signal Improvements for a Single Agency
- Includes Traffic Signal Improvements that Apply to More than One Agency
- The Project Conforms to Local Land Use Plans
- The facility is on the adopted MAG Roads of Regional Significance Network

12. Management System (Please check only one box)

- | | |
|---|---|
| <input checked="" type="checkbox"/> Congestion Management System (CMS) | <input type="checkbox"/> Safety Management System (SMS) |
| <input type="checkbox"/> Bridge Management System (BMS) | <input type="checkbox"/> Intermodal Management System (IMS) |
| <input type="checkbox"/> Pavement Management System (PMS) | <input type="checkbox"/> Other |
| <input type="checkbox"/> Public Transportation Management System (PTMS) | |

13. Please identify the priority the agency places on this project. If for example, the agency is submitting three requests (including any joint requests) for ITS projects and this is the agency's highest priority, then a "1" should be entered. Each priority entered should be unique – e.g. no two requests for ITS projects should have the same priority.

#1

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP

Part C: MAG Technical Committee Additional Information

General Instructions: This part is required for all ITS projects and must be submitted to MAG electronically following instructions provided under **Information at MAG website**.

All ITS project requests should also include the coversheet, Part A and Part B of the Transportation Improvement (TIP) ITS Project Application Form.

Overview of the ITS Project Review and Ranking Process

The MAG ITS Committee is responsible for reviewing all proposed projects and recommending a list of arterial ITS projects for each programming cycle. The committee has developed a new Project Rating System that is expected to be adopted on September 6, 2006. This system will be utilized by the committee to develop a preliminary ranking from the list of qualifying ITS projects submitted to MAG by member agencies. The final committee recommendation of projects for inclusion in the annual update of the Transportation Improvement Program (TIP) will be generated through a subjective ranking process that will consider: (1) Estimated reductions in emissions due to each project; (2) Ranking based on the Project Rating System; and (3) Project presentation by the proposing agency.

The determination, of which projects are considered qualified ITS projects eligible for federal funds, is based on the National ITS Architecture (developed by the USDOT) and the Regional ITS Architecture for the Phoenix metropolitan region (developed by MAG). A Regional ITS Architecture that is compatible with the National ITS Architecture is a federal requirement for all major metropolitan regions. Such an architecture has been defined for the MAG region and is included in the MAG ITS Strategic Plan Update of April 2001. The National ITS Architecture refers to Market Packages as ITS applications that are tailored to fit real-world transportation problems and provide related ITS User Services. All project applications must provide information on applicable ITS User Services and Market Packages, that will be directly addressed by the proposed project.

The project review and ranking process helps ensure that all proposed projects would further the regional goals for improving arterial traffic operations, road safety and advance regional integration, utilizing ITS applications. For each proposed ITS project, an application must be submitted to MAG using the Excel form available at the MAG website (see next page). For joint ITS projects, a single application must be submitted by the lead agency, clearly identifying contributions by each partner to the minimum local share of 30 percent. The following information is required for all projects and must be provided on the form.

- A brief project description narrative – goals, objectives, and how the project would address arterial ITS functions (see Draft Arterial ITS Plan at the MAG website)
- Requested project budget – Federal funds requested and local funds contributed by each agency (a minimum of 30 percent local match is required for all projects)
Guidelines: (1) The total of all federal funds requested for ITS projects by any MAG member agency should not exceed \$1million per program year per agency (Exception - any regional ITS project that involves three or more MAG agencies). (2) Joint regional ITS projects that involve three or more MAG agencies may exceed \$1million in federal cost. For these projects, the federal cost component in each jurisdiction will not be counted against the \$1million limit. (3) there is no limit on the number of projects may be submitted, but each project requires the 30 percent local match
- A list of anticipated project tasks
- Proposed fiscal year and estimated timeline for project development and implementation – receipt of an ADOT project number, project obligation and final deployment (month/yr)
- The plan for maintaining and operating the proposed ITS elements in the project – source of local funds and availability of operators and maintenance personnel

ITS PROJECT APPLICATION FORM – FY 2008-2012 TIP
Part C: MAG Technical Committee Additional Information

- A commitment to address the federal requirement for a Systems Engineering Analysis of the proposed project within the agency's project development process (MAG guidelines on how to carry out this step will be forthcoming)
- Applicable ITS User Services, Market Packages from National ITS Architecture
- Required communications for data sharing with other agencies (if any)
- Information flows and data flows (REQUIRED for projects that will exchange information with other regional agencies)

Information at MAG website

The Excel sheet to be used for submitting information on proposed arterial ITS projects is available at:

<http://www.mag.maricopa.gov/detail.cms?item=3948>

Other information available at this site:

Draft Arterial ITS Plan, August 7, 2006 – describes arterial ITS functions

Links to National ITS Architecture website and information on User Services and Market Packages

Part C Transmittal and Contact Information

Please submit Part C of this application via email, using the Excel sheet, to Leo Luo at:

lluo@mag.maricopa.gov

If you have questions or need assistance with the project application process, please contact Kiran Guntupalli or Leo Luo at (602) 254-6300.

JENNY LYNN

CIRCLE MOUNTAIN

HONDA BOW

ROCKAWAY HILLS

DESERT HILLS

JOY RANCH

STAGECOACH PASS

CAREFREE HWY.

DOVE VALLEY

LONE MOUNTAIN

DIXILETA

DYNAMITE

JOMAX

HAPPY VALLEY

PINNACLE PEAK

DEER VALLEY

BEARDSLEY

OUTER LOOP

UNION HILLS

BELL RD

FRANK LLOYD WRIGHT BLVD.

GREENWAY

THUNDERBRD

CACTUS

SHEA

DOUBLETREE RANCH

MCCORMICK PKWY.

INDIAN BEND

LINCOLN

MCDONALD

CHAPARRAL

CAMELBACK

INDIAN SCHOOL

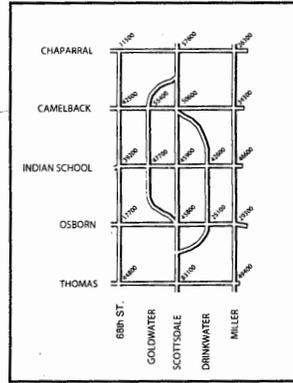
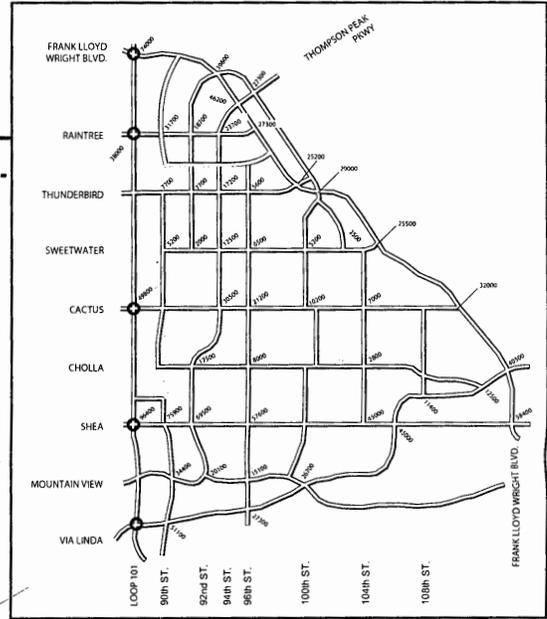
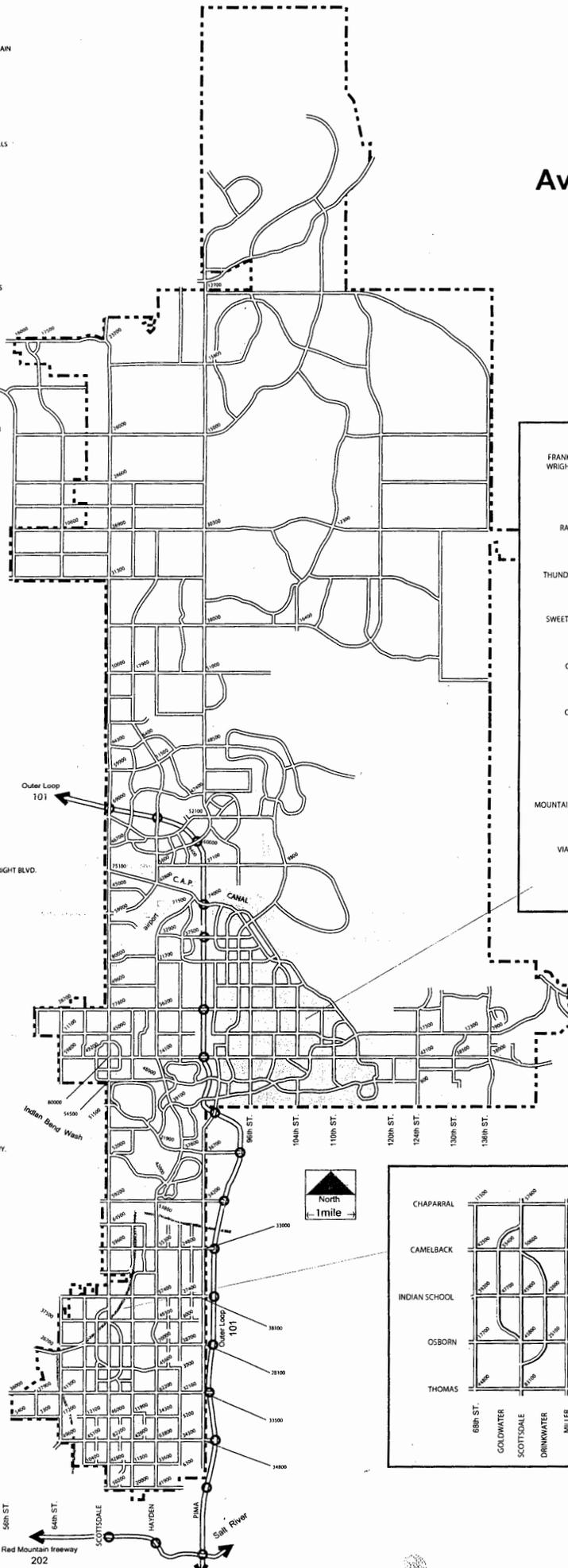
THOMAS

MCDOWELL

MCKELLIPS



City of Scottsdale 2004 Average Daily Traffic Volumes INTERSECTION



MONTHLY ADJUSTMENT FACTORS	
MONTH	FACTOR
JANUARY	0.98
FEBRUARY	0.96
MARCH	0.94
APRIL	0.95
MAY	0.99
JUNE	1.02
JULY	1.04
AUGUST	1.06
SEPTEMBER	1.04
OCTOBER	1.03
NOVEMBER	1.02
DECEMBER	1.00

ITS PROJECT APPLICATION FORM

FY 2009 – Request to Increase Federal funds, Project costs, and/or Scope of Project

General Instructions: This form is to be used to request an increase to a budget or a scope for a currently programmed ITS Project in FY2009.

Please ONLY use currently programmed projects in FY2009 that are shown in the Excel workbook titled: 1 - Current FY2009 ITS Program & Scenarios.

Deadlines and Transmittal Instructions: All sections should be completed and returned to MAG Offices by **5:00 p.m. September 14, 2007**. Please e-mail to luo@mag.maricopa.gov. The mailing address and FAX number for the MAG offices is:

ATTN: Leo Luo
 Maricopa Association of Governments
 302 North 1st Avenue, Suite 300
 Phoenix, Arizona 85003
 FAX Number: (602) 254-6490

Agency Contact Information:

1. Name of the Agency Contact for the Project Request: Bruce Dressel	2. Telephone: 480-312-2358
3. E-mail bdressel@scottsdaleaz.gov	4. Date: 9/6/07

What is the Request?

- Increase the Federal Share Increase the Total Project Costs
- Increase the Scope of the Project

1. Sponsoring Agency Name: City of Scottsdale	2. TIP ID# SCT09-805
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3. Project Location (The project limits if applicable):

South Scottsdale

4. Type of Work (Description of the work to be performed):

Controller and cabinet replacement

5. Current Programmed Costs

Total	Local	Federal	% of Federal Share
\$500,000.00	\$254,244	\$245,765	50 =Federal/Total %

6. Requested New Project Costs (if applicable)

Total	Local	Federal	% of Federal Share
\$750,000	\$225,000	\$525,000	70=Federal/Total%

7. Scope Change/Increase Explanation (if applicable)
 Simply to increase the numbers of controllers and cabinets that can be purchased with this project. Scottsdale was at 50/50 match, and would like to keep the local match close to the same and increase the Fed dollars.

**FY 2008 - 2012 TIP - Programming 2008, 2009, 2010, 2012
MAG ITS Project Data Form**

Please enter project data ONLY in highlighted cells, save the file with the lead agency name in it - ie. Mesa ITS Projects.xls

Submit this Excel workbook to MAG via email to: LLUO@MAG.MARICOPA.GOV

Please use one worksheet per project, with the tab at the bottom indicating agency priority

Links to various websites are provided for additional information and help

The worksheet titled "Example" shows an example on how to enter Data in the highlighted areas

The worksheet titled "HELP" shows how to figure out your project's ITS Subsystems & Architecture Flows

Please enter required information in highlighted cells

A. Project Title & Sponsor

Lead Agency	Scottsdale
Other Partnering Agencies	Tempe, Phoenix
ITS Project Title:	Controller replacement

B. Project Goals & Objectives

Project Goals:

Update existing controllers to accept new firmware and increase the ability to reduce congestion through automation of data collection, i.e. traffic responsive signal timing. Have compatible controller firmware with Phoenix and Tempe.



Objectives:

Replace outdated signal controllers with 6800 microprocessors, which are no longer manufactured. Update firmware on signal controllers to allow for signal timing features that are not available on the current controllers or firmware. The update will include cabinet replacements at specific intersections that will expand current detection inputs from 8 to 64, where required.



C. Define ITS Subsystems, Achitecture Flows, Communications & Arterial ITS Applications

<u>SELECT ITS Subsystems:</u> http://www.iteris.com/itsarch/html/entity/pa	Yes or No
Center Subsystem	Yes
Traveler Subsystem	No
Field/Roadside Subsystem	No
Vehicle Subsystem	No
Communications Subsystem	Yes

Architecture Flows (Information flows among four subsystems: Traveler, Center, Roadside and Vehicle Subsystems)

From Subsystem	To Subsystem	Information flow
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Roadside Subsystem-CCTV, Signal Controller	Center Subsystem-TMC	traffic images
		Signal control status
Center Subsystem-TMC	Roadside Subsystem-Signal Controller	signal control data, video surveillance control

Communications:

Required communications medium for data sharing with other agencies: (if applicable)

From agency	To agency	data flow	Medium	Existing?	Future (year) mm/yyyy	Check Date with Project Schedule
Scottsdale	Phoenix, Tempe	Signal control, data backup at bordering intersections	Fiber	NO	Jun-2008	

<u>Arterial ITS applications</u>	Relevant Applications (ENTER: Yes or No)	<u>Applicable ITS User Services Addressed</u> http://www.iteris.com/itsarch/html/user/userserv.htm	<u>Applicable ITS Market Packages</u> http://www.iteris.com/itsarch/html/mp/mpindex.htm
1. Traffic Management	Yes	1.6	ATMS01, ATMS03
2. Transit Operations Support	No		
3. Interagency Data Sharing and Control	No		
4. Integrated Traveler Information	No		
5. Archived Data Management	No		
6. Incident Management	No		
7. Freeway-Arterial	No		

D. Project Budget

- (1) The total of all federal funds requested for ITS projects by any MAG member agency should not exceed \$1 million per program year per agency.
- (2) Joint projects that involve 3 or more agencies may exceed \$1m in federal cost. Federal cost of each agency's component will not be counted against the \$1m limit.

(3) There is no limit on the number of projects that may be submitted by an agency, but each project requires the 30 percent local cost match

	Federal Cost	Local Match (min 30%)	Total Cost
Amount	\$250,000.00	\$250,000.00	\$500,000.00
Cost percentage	50.0%	50.0%	

E. Project Schedule

The following project milestones and schedules are based on a typical project procurement process. Please select applicable milestones. Some ITS projects may follow an abbreviated process. ENTER estimated time for such a process

Standard Project Milestones	Default Schedule for Process	Applicable Milestones (ENTER - Yes OR No)	Estimated Time to Milestone (ENTER #Months)	Estimated Date (Enter> mm/yyyy)
Apply for ADOT project number				Nov-2007
Receipt of ADOT project number	Jan-2008			NA
Initial DCR	Feb-2008	Yes	2	Jan-2008
Final DCR	Mar-2008	Yes	4	Mar-2008
30% Preliminary Plans, Cost Estimate and Report	May-2008	Yes	2	Jan-2008
60% Preliminary Plans, Cost Estimate and Report	Jul-2008	Yes	2	Jan-2008
Final Preliminary Plans, Cost Estimate and Report	Sep-2008	Yes	2	Jan-2008

Environmental Clearance	Jul-2008	Yes	6	May-2008
Utility Clearance	Aug-2008	Yes	3	Feb-2008
Right-of-Way Clearance	May-2008	Yes	6	May-2008
Approval of IGA	Nov-2008	Yes	14	Jan-2009
Obligation authority of Federal funds	Dec-2008	Yes	6	May-2008
Advertised Date	Feb-2009	Yes	8	Jul-2008
Final Deployment	Aug-2009	Yes	12	Nov-2008

F. System Maintenance and Operations

Current staff resources available for ITS operations at the local agency (FTEs)

4

Additional staff resources required for fully utilizing features added by project (FTEs)

0

Estimated current annual ITS operations & maintenance budget

50K

Estimated additional annual operations & maintenance funds required for features added by project

20K

Estimated DATE from when required additional O&M funds will be available

Jul-2006

Other comments:



G. Systems Engineering Analysis Requirement

Commitment to address the federal requirement for Systems Engineering Analysis:

Agency's intent to follow the process described in the 'V' diagram (See Appendix A of Arterial ITS Plan) during the project development process

The project sponsor or lead agency intends to incorporate the Systems Engineering Analysis in the scope of work for the project's Design Concept Report. The Systems Engineering Analysis will be carried out based on the forthcoming guidelines to be provided by FHWA (and made available at the MAG website).

