



Transportation Alternatives Application for  
FY 2015, 2016, and 2017 Projects

HIGH INTENSITY ACTIVATED CROSSWALK (HAWK) AT 65TH AVENUE AND BETHANY HOME RD

CITY OF GLENDALE

**APPLICATIONS ARE DUE AT MAG OFFICES BY  
Tuesday, October 22, 2013 at 10:00 a.m.**

**(LATE AND/OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED)**

<b>PART A - CONTACT AND PROJECT DESCRIPTION</b>	
<b>Contact Information</b>	
1. Name of Sponsoring Agency	Glendale
2. Agency Contact Name	Debbie Albert
3. Phone Number of Agency Contact	623-930-2939
4. E-Mail Address of Agency Contact	<a href="mailto:dalbert@glendaleaz.com">dalbert@glendaleaz.com</a>
5. Mailing Address of Agency Contact	5800 W. Glenn Drive, Suite 315, Glendale, AZ 85301
<b>Project Description</b>	
6. Please provide the Project Title.	65TH AVE AND BETHANY HOME RD HAWK
7. Please provide a concise, specific description of the project (250 character limit):	
<p>This application is a request to fund the construction of a HAWK at 65th Avenue and Bethany Home Road in Glendale, Arizona. This location experiences approximately 200 pedestrian/bicyclist crossings a day. In addition to the HAWK, this location will be improved with accessible ramps, countdown pedestrian signals, streetlighting, and striping.</p>	
8. Please provide the project limits:	
The west leg of 65th Avenue and Bethany Home Road	
9. School Name	N/A
10. School Address	N/A
11. School City, State, ZIP Code	N/A

**PART B-PROJECT DESCRIPTION**

This part of the form identifies the current characteristics and proposed improvements for each project.

The purpose of Part B is to provide sufficient information to evaluate the cost estimate for the project and to provide assurance that the project will be capable of meeting the ADOT administered federal design review and clearance process. This process requires environmental, ROW and utilities clearances and a bid ready design prior to FHWA approval to encumber federal funding for construction.

NOTE: For Part B, Questions 12-13 and 15-18, the specified distance will vary (and update automatically) depending on the project type identified in Part B, Question 1. Pedestrian-only projects will use a distance of 1/4 mile, while bicycle and Shared-Use projects will use a distance of 1/2 mile.

1. What type of project is this? (Check only one)

<input type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)	<input type="checkbox"/>	Wide Sidewalk (8' min.)
<input type="checkbox"/>	Bicycle lane (5' min. with curb/gutter)	Other:	
<input type="checkbox"/>	Shared-use path (10' min.)	<input type="text" value="HAWK Beacon crossings of arterial streets for pedestrians and bicyclists at 65th Avenue and Bethany Home Road"/>	
<input type="checkbox"/>	Detached Sidewalk with 4' min. buffer		
<input type="checkbox"/>	Sidewalk (5' min.)		

2. What other major elements are included in this project? (Check all that apply)

<input type="checkbox"/>	Bridge (overpass)	<input type="text" value="0"/>	Number of new openings in street walls
<input type="checkbox"/>	Tunnel (underpass)	<input type="text" value="0"/>	Number of Trees
<input type="checkbox"/>	Safe Routes to School	<input type="text" value="0"/>	Number of Shade Structures
<input type="text" value="0"/>	Signalized Crossing	<input type="text" value="0"/>	Number of Seating/Rest Area(s)
<input type="text" value="1"/>	Signalized midblock crossing/HAWK	<input type="text" value="0"/>	Number of bicycle/pedestrian counting devices
<input type="text" value="2"/>	Countdown Pedestrian Signal	Other:	
<input type="text" value="0"/>	Number of Bike racks/lockers	<input type="text" value="2 accessible ramps, streetlights"/>	
<input type="text" value="0"/>	Number of Drinking Fountains		
<input type="text" value="0"/>	Number of Way-finding Signs		
<input type="text" value="0"/>	Number of Trash receptacles		

3. Please describe the existing condition of the project site and any problem(s) being addressed.

Residential land uses in this area consist of dense development of single family homes north and south of Bethany Home Road and to the east. A major apartment complex is located at the southwest corner of the intersection. Commercial uses exist on all properties west of this intersection along the north and south sides of Bethany Home Road west to 67th Avenue, including commercial plazas, strip malls, restaurants, and private businesses. Currently, the intersection of 65th Avenue and Bethany Home Road does not have a traffic signal. Pedestrians or bicyclists who wish to cross a busy five-lane arterial highway for access to stores and commercial services on the opposite side of

4. Please describe the work being done and improvements being made as part of this project.

Construction of a HAWK beacon at 65th Avenue and Bethany Home Road, handicapped ramps, striping, pedestrian countdown signals, and streetlights. There is a frontage road located on the north side of Bethany Home Road that will need to be modified to be able to install a pole and ramp. Likely the bull nose of the median will need to be widened and the frontage road west of 65th Avenue changed to facilitate one-way traffic only.

5. What do you hope to achieve with this project?

Provide a protected crossing for bicyclists and pedestrians to cross a major roadway while providing adequate warning and minimizing delays for motorists as compared to regular traffic signals.

6. Please provide a site safety / crash history, and provide a source for this information.

Please describe any car-bicycle and car-pedestrian crashes on streets within 2-mile radius of the project (within the last 5 years). You may attach crash reports or summarize their results below.

The City of Glendale has requested crash data for this project through MAG. As crash data will not be available prior to the TA application deadline, MAG will provide the crash data as an attachment prior to releasing the application to the evaluation panel for review.

7. Safety improvements to be included for this project: (Check all that apply)

<input type="checkbox"/>	Wide bike lanes (6'-7')	<input type="text"/>	Buffer Zone, Width
<input type="checkbox"/>	Wide sidewalk (8' min.)	<input type="text"/>	
<input type="checkbox"/>	Grade-separated crossing (overpass or underpass)	Other:	
<input checked="" type="checkbox"/>	Signalized crossing/Ped countdown/HAWK	<input type="text" value="accessible ramps"/>	
<input checked="" type="checkbox"/>	Lighting		
<input checked="" type="checkbox"/>	Striping/re-striping of roadway		
<input checked="" type="checkbox"/>	Countdown signals		

<b>PART B-PROJECT DESCRIPTION</b>	
8. How does this project improve upon an existing safety issue?	<div style="border: 1px solid black; padding: 5px;">                     Construction of a HAWK beacon will improve the crossing of a busy arterial street for pedestrians and bicyclists living in the surrounding neighborhoods, and provide a protected crossing for people to access public transit throughout the day.                 </div>
9. How does the project improve ADA facilities for persons with disabilities?	<div style="border: 1px solid black; padding: 5px;">                     Handicapped ramps will be constructed as part of this project in accordance to ADA standards.                 </div>
10. How does the project create a sense of place?	<div style="border: 1px solid black; padding: 5px;">                     The HAWK will help provide safer connections between neighborhoods, more frequent access to local businesses, enhance safe travel for alternative transportation options, and help create a walkable environment and a more livable                 </div>
11. Connectivity: (Check all that apply)	<div style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> Project fills a gap in the system                      Explain:  <div style="border: 1px solid black; padding: 2px;">                         The HAWK at 65th Avenue and Bethany Home Road will provide a protected pedestrian and bicyclist crossings                     </div>   <input type="checkbox"/> Project connects to other local bikeways                      List of connected bikeways:  <div style="border: 1px solid black; height: 15px; width: 100%;"></div>   <input type="checkbox"/> Multi Jurisdictional Project                      List of Participating Jurisdictions:  <div style="border: 1px solid black; height: 20px; width: 100%;"></div>   <input type="checkbox"/> 0 Total length of facilities connected by this project (in miles)                 </div>
12. Number of transit stops this project will connect to. Do NOT count major transit facilities (park and rides, transit centers, etc.) in this question. List associated route(s) and their peak frequency, using Valley Metro as the source.	<div style="border: 1px solid black; padding: 5px;"> <input type="checkbox"/> 3 Within 1/4 mile                      List routes and frequency:  <div style="border: 1px solid black; padding: 2px;">                         There are three transit stops within a quarter mile of the 65th Avenue/Bethany Home Road project that are served by Bus Route 60. There is a bus stop on the north side and south side of the 65th Avenue/Bethany                     </div> </div>
13. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:	<div style="border: 1px solid black; padding: 5px;"> <input type="checkbox"/> 0 Within 1/4 mile                      List:  <div style="border: 1px solid black; height: 20px; width: 100%;"></div> </div>
14. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:	<div style="border: 1px solid black; padding: 5px;">                     There is no traffic signal at the intersection of 65th Avenue and Bethany Home Road and only a ladder crosswalk for pedestrians or bicyclists from nearby neighborhoods to cross a busy arterial roadway to access a wide variety of stores and commercial services on the opposite side of the street. A HAWK will improve access to existing bus stops on the north and south side of this intersection for adjacent residents' shopping and work trips.                 </div>

**PART B-PROJECT DESCRIPTION**

15. Number of activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

Within 1/4 mile

List:

16. Number of commercial and employment destinations (malls, retail centers, business parks, etc.) this project will benefit (for example, a mall is ONE destination; do NOT count every store in a mall as a separate destination):

Within 1/4 mile

List:

There are three commercial plazas and one strip mall within a quarter mile of the 65th Avenue/Bethany Home intersection which provide numerous commercial services, restaurants, and destinations within close

17. Number of K-8 public schools this project will benefit:

Within 1/4 mile

List:

18. Number of other schools (charter schools, high schools, colleges, and universities) this project will benefit:

Within 1/4 mile

List:

19. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

Use the MAG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census blocks adjacent to your project, left-clicking where needed to change the direction of the line Double-click to finish drawing the line. The selected census blocks will become highlighted in blue. A pop-up box will appear with "Results for Selected Block Groups." Select the "Summary Report" tab, and use the data found there. You may export the results to Excel (click the printer icon at the top-right side of the pop-up window) for your records.

**PART B-PROJECT DESCRIPTION**

20. Please provide the following information on the facility on which the improvement will be located.

For a linear project, please enter the Facility Name, Starting Limit and Ending Limit:

For a point project (e.g. an intersection or crossing), please enter a Facility Name and a Crossing Feature:

Federal Functional Classification of the Facility:

[Link to MAG webpage for Federal Functional Classification Map](#)

Type of Facility the Improvement will be located on:

 Length (in Miles)

 Posted Speed Limit (MPH)

 Number of Travel Lanes

21. Please provide an estimated traffic volume (ADT) below. If project is not on a road (ex. Canal path), use nearest parallel arterial.

 ADT Estimate

 Date Counted

Name of road the traffic count was taken from

Description of Methodology and Source used for the ADT Estimate

22. Federal law requires that all federally funded projects comply with a federal environmental clearance. For projects that have a minimum ground disturbance, environmental surveys are required and an environmental document will need to be prepared, which typically requires 12 months to complete.

Describe any known cultural, historical and biological resources, hazardous materials or other environmental issues that could affect work on the segment.

23. Current ROW: (Check all that apply)

 Agency owns all ROW Needed  
 ROW to be acquired  
 Owners will donate ROW

 Agency owns easement  
 Agency has right-of-use (i.e. canal)  
 Condemnation may be required

24. Please describe any right of way issues associated with the project.

25. Current Utilities in or abutting the alignment: (Check all that apply)

 No Utility in or abutting the alignment  
 Canals & Drainage  
 Power Lines & Cables  
 Pipelines, Sewer and Water

 Private Structures

Other:

<b>PART B-PROJECT DESCRIPTION</b>															
<b>26. Please describe any utility conflicts that will need to be addressed.</b>	<div style="border: 1px solid black; padding: 5px; min-height: 50px;">                     A new power service will need to be provided by the utility company. There are overhead powerlines on the north side of Bethany Home Road in which the HAWK poles will need to be locate to provide minimum clearances. There is a storm drain and a catch basin located near the potential pole location on the north side of Bethany Home Road.                 </div>														
<b>27. Guidelines used to develop project: (Check all that apply)</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>AASHTO Guide for Bicycle Facilities</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Pedestrian Policies and Design Guidelines</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Complete Streets Guide</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Designing Transit Accessible Communities</td></tr> <tr><td><input type="checkbox"/></td><td>NACTO Urban Bikeway Design Guide</td></tr> <tr><td><input type="checkbox"/></td><td>RPTA Bus Stop Program and Standards</td></tr> </table> </td> <td style="width: 50%; vertical-align: top; padding-left: 20px;">                     Other:  <div style="border: 1px solid black; padding: 5px; min-height: 30px;">                         MUTCD, AASHTO, and Glendale signal standards                     </div> </td> </tr> </table>	<table style="width: 100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>AASHTO Guide for Bicycle Facilities</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Pedestrian Policies and Design Guidelines</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Complete Streets Guide</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Designing Transit Accessible Communities</td></tr> <tr><td><input type="checkbox"/></td><td>NACTO Urban Bikeway Design Guide</td></tr> <tr><td><input type="checkbox"/></td><td>RPTA Bus Stop Program and Standards</td></tr> </table>	<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities	<input type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	<input type="checkbox"/>	MAG Complete Streets Guide	<input type="checkbox"/>	MAG Designing Transit Accessible Communities	<input type="checkbox"/>	NACTO Urban Bikeway Design Guide	<input type="checkbox"/>	RPTA Bus Stop Program and Standards	Other: <div style="border: 1px solid black; padding: 5px; min-height: 30px;">                         MUTCD, AASHTO, and Glendale signal standards                     </div>
<table style="width: 100%; border-collapse: collapse;"> <tr><td><input type="checkbox"/></td><td>AASHTO Guide for Bicycle Facilities</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Pedestrian Policies and Design Guidelines</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Complete Streets Guide</td></tr> <tr><td><input type="checkbox"/></td><td>MAG Designing Transit Accessible Communities</td></tr> <tr><td><input type="checkbox"/></td><td>NACTO Urban Bikeway Design Guide</td></tr> <tr><td><input type="checkbox"/></td><td>RPTA Bus Stop Program and Standards</td></tr> </table>	<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities	<input type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines	<input type="checkbox"/>	MAG Complete Streets Guide	<input type="checkbox"/>	MAG Designing Transit Accessible Communities	<input type="checkbox"/>	NACTO Urban Bikeway Design Guide	<input type="checkbox"/>	RPTA Bus Stop Program and Standards	Other: <div style="border: 1px solid black; padding: 5px; min-height: 30px;">                         MUTCD, AASHTO, and Glendale signal standards                     </div>		
<input type="checkbox"/>	AASHTO Guide for Bicycle Facilities														
<input type="checkbox"/>	MAG Pedestrian Policies and Design Guidelines														
<input type="checkbox"/>	MAG Complete Streets Guide														
<input type="checkbox"/>	MAG Designing Transit Accessible Communities														
<input type="checkbox"/>	NACTO Urban Bikeway Design Guide														
<input type="checkbox"/>	RPTA Bus Stop Program and Standards														
<b>28. Jurisdiction has the following policies for improved bicycle/shared use facilities:</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">With new development and capital improvement projects, bike lanes on arterial streets are:</td> <td style="width: 20%; text-align: center;"><input type="checkbox"/> Required</td> </tr> <tr> <td>With new development and capital improvement projects, bike lanes on collector streets are:</td> <td style="text-align: center;"><input type="checkbox"/> Recommended</td> </tr> <tr> <td>With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:</td> <td style="text-align: center;"><input type="checkbox"/> Recommended</td> </tr> <tr> <td>With new development or during development retrofits, shared-use paths are:</td> <td style="text-align: center;"><input type="checkbox"/> Not Addressed</td> </tr> <tr> <td>Bicycle program implemented, including bike education, safety events, and bike maps</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> </tr> <tr> <td>Complete Streets Policy</td> <td style="text-align: center;"><input type="checkbox"/> No</td> </tr> </table>	With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="checkbox"/> Required	With new development and capital improvement projects, bike lanes on collector streets are:	<input type="checkbox"/> Recommended	With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="checkbox"/> Recommended	With new development or during development retrofits, shared-use paths are:	<input type="checkbox"/> Not Addressed	Bicycle program implemented, including bike education, safety events, and bike maps	<input type="checkbox"/> Yes	Complete Streets Policy	<input type="checkbox"/> No		
With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="checkbox"/> Required														
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="checkbox"/> Recommended														
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="checkbox"/> Recommended														
With new development or during development retrofits, shared-use paths are:	<input type="checkbox"/> Not Addressed														
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="checkbox"/> Yes														
Complete Streets Policy	<input type="checkbox"/> No														
<b>29. The project is: (Check one)</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td style="padding-left: 5px;">Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div></td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="padding-left: 5px;">Consistent with general policy/practices, but not formally identified (provide source) Explain: <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">The City has constructed two HAWK beacons - one at 65th Avenue and Glendale Avenue, and the other on</div></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="padding-left: 5px;">Not addressed by jurisdiction's plans, policies, or practices Explain: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div></td> </tr> </table>	<input type="checkbox"/>	Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div>	<input checked="" type="checkbox"/>	Consistent with general policy/practices, but not formally identified (provide source) Explain: <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">The City has constructed two HAWK beacons - one at 65th Avenue and Glendale Avenue, and the other on</div>	<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices Explain: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div>								
<input type="checkbox"/>	Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source) List: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div>														
<input checked="" type="checkbox"/>	Consistent with general policy/practices, but not formally identified (provide source) Explain: <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">The City has constructed two HAWK beacons - one at 65th Avenue and Glendale Avenue, and the other on</div>														
<input type="checkbox"/>	Not addressed by jurisdiction's plans, policies, or practices Explain: <div style="border: 1px solid black; height: 15px; margin-top: 5px;"></div>														
<b>30. Identify the organization(s) responsible for on-going maintenance and repairs of the project:</b>	<div style="border: 1px solid black; padding: 5px; min-height: 50px;">                 City of Glendale             </div>														
<b>31. How will the applicant measure the success of this project?</b>	<div style="border: 1px solid black; padding: 5px; min-height: 50px;">                 Pedestrian and bicycle counts (increase in user traffic) will be one measurement of success. Also, a before and after study for safety performance will be done after one year of operation.             </div>														
<b>32. Will bicycle/pedestrian count technology be incorporated? Will the devices broadcast automatic updates or require manual data collection? If manual, how will the agency identify staff resources to dedicate to collecting the data?</b>	<div style="border: 1px solid black; padding: 5px; min-height: 50px;">                 Manual counts will be conducted with the use of cameras, and the number of activation for the HAWK will be tracked.             </div>														
<b>33. Will the project include an education/marketing component upon completion of construction, to publicize the project and increase citizen awareness of the project impact and benefits? If yes, please describe below.</b>	<div style="border: 1px solid black; padding: 5px; min-height: 50px;">                 The city will distribute flyers that explain the operations of a HAWK for residents and businesses in the area. The city has also prepared a YouTube video that is posted on the city's website.             </div>														

**Part C - Required Attachments**

Listed below are the required attachments for this project application. These attachments are intended to demonstrate the need of the project. They should clearly show the segment alignment and features that connect to other bicycle, pedestrian, and/or shared-use facilities, as well as washes, canals, railroad crossings, and other crossing features that may affect the project.

**PLEASE INCLUDE EACH ATTACHMENT AS A SEPARATE .JPEG OR .PDF FILE ON YOUR APPLICATION CD.**

Please insert ALL attachments between Part B and Part D on your printed application, in the order they are listed below. See below for alternate submission requirements for GIS coverage files.

**Required Attachments:**

1) Please attach a map with streets labeled showing the location(s) of the proposed project, including a north arrow.

2) Please attach up to four photos indicating existing conditions in the project area (two 4x6 photos per page).

3) Please attach a simple diagram of the current typical cross section, including widths, of the segment that shows the right of way limits, sidewalks and shoulders (if any), and the lanes of travel.

**OPTIONAL Attachments:**

(OPTIONAL) Attach up to two photos showing what the completed project will look like, if available (these can be photoshop, renderings, etc.).

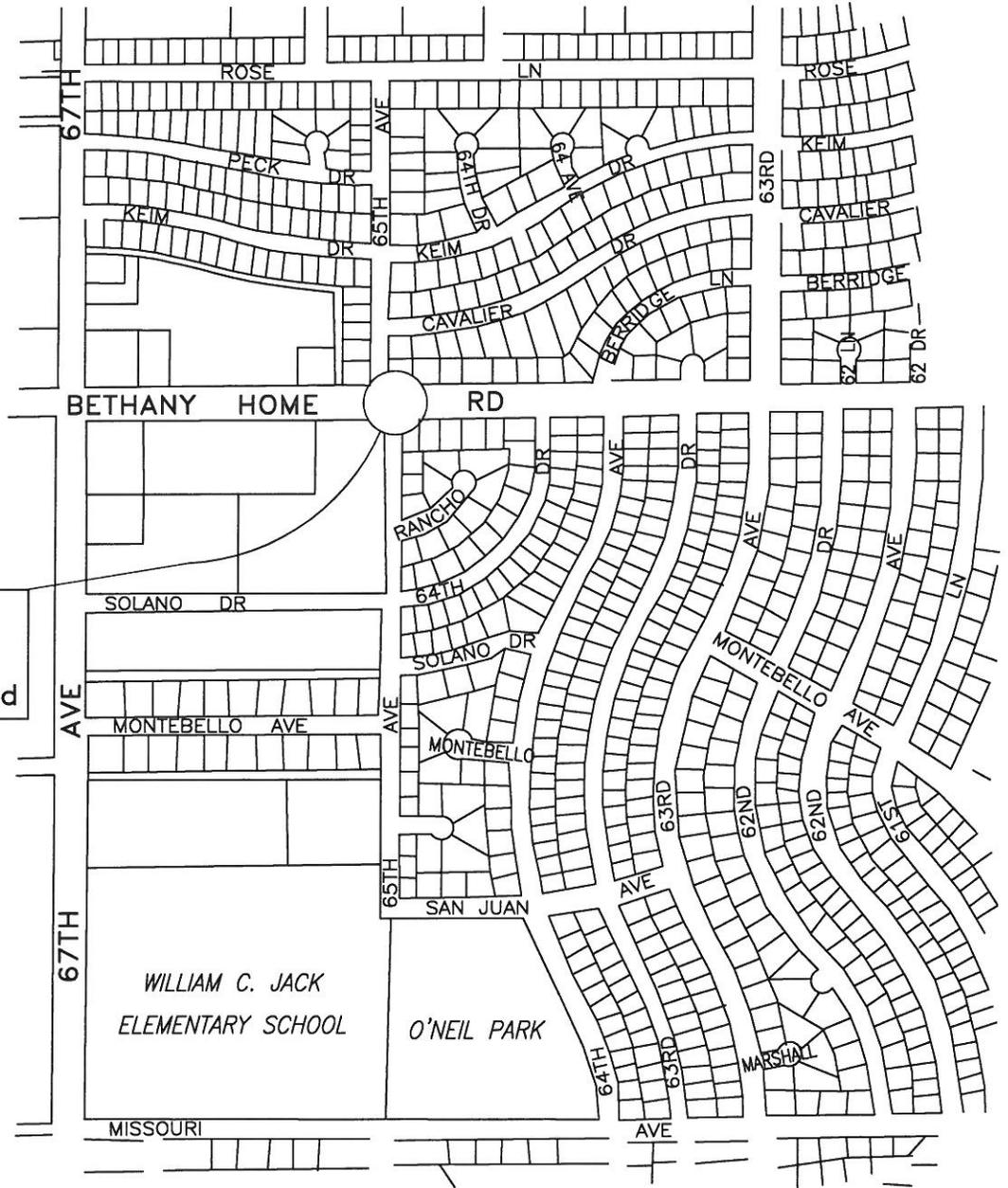
(OPTIONAL) Attach any crash report(s) referenced in Part B, Section 2, #6.

(OPTIONAL) If the applicant will be providing a GIS coverage (shapefile or geodatabase), please see the tab labeled "GIS Transmittal Instructions"

# Part C – Attachment 1



HAWK Location  
65th Avenue  
and  
Bethany Home Road



Date: October 10, 2013

Location Map

Part C – Attachment 2

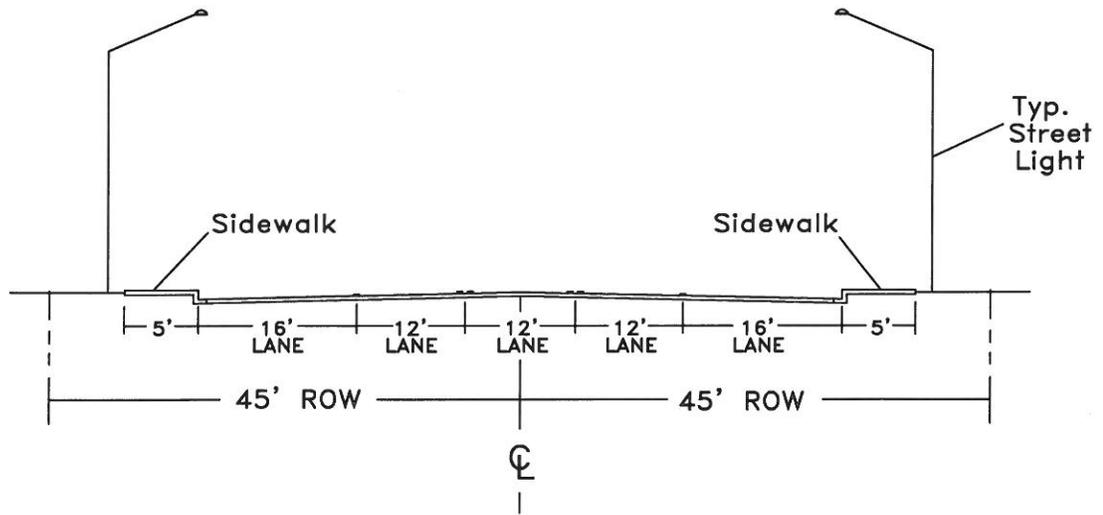


65th Avenue and Bethany Home Road – Looking East



65th Avenue and Bethany Home Road – Looking West

Part C – Attachment 3



Bethany Home Raod  
Typical Cross Section

Date: October 10, 2013

Typical Section

**PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM**

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

<b>Sponsoring Agency:</b>	Glendale	<b>Project Title:</b>	65th Ave & Bethany Home Rd HAWK	<b>Application Date:</b>	10/22/2013
---------------------------	----------	-----------------------	---------------------------------	--------------------------	------------

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (6.7%)	Note(s)		
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00			
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN	LS	1	\$15,000.00	\$15,000.00	No	\$0.00	\$15,000.00			
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)	LS	1	\$20,000.00	\$20,000.00	No	\$0.00	\$20,000.00			
	4. HAZMAT ASSESSMENT	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00			
	<b>Subtotal Scoping (Part A)</b>				<b>\$45,000.00</b>		<b>\$0.00</b>	<b>\$45,000.00</b>			
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.	LS	1	\$50,000.00	\$50,000.00	No	\$0.00	\$50,000.00			
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report	LS	1	\$10,000.00	\$10,000.00	No	\$0.00	\$10,000.00			
	3. DRAINAGE REPORT	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00			
	4. SWPPP	LS	1	\$5,000.00	\$5,000.00	No	\$0.00	\$5,000.00			
	<b>Subtotal PE (Part B)</b>				<b>\$70,000.00</b>		<b>\$0.00</b>	<b>\$70,000.00</b>			
<b>Subtotal Preliminary Engineering (Part A + Part B)</b>					<b>\$115,000.00</b>		<b>\$0.00</b>	<b>\$115,000.00</b>			
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition	LS	0	\$0.00	\$0.00	No	\$0.00	\$0.00			
<b>Subtotal Right-of-Way Acquisition (Part C)</b>					<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</b>			
D. Utility Relocation	1. Utility Relocation	LS	0	\$0.00	\$0.00	No	\$0.00	\$0.00			
<b>Subtotal Utility Relocation (Part D)</b>					<b>\$0.00</b>		<b>\$0.00</b>	<b>\$0.00</b>			
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	1. Hardscape Construction	Installation Of SWPP Measures		LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Site Preparation		LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Demolition	Sawcut	LF	100	\$12.00	\$1,200.00	Yes	\$1,131.60	\$68.40	
			Remove Structures and Obstructions	LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Fencing	LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Structural Concrete	CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
			Remove Asphaltic Concrete Pavement	CY	250	\$18.00	\$4,500.00	Yes	\$4,243.50	\$256.50	
			Remove Concrete Sidewalks, Slabs	CY	100	\$24.00	\$2,400.00	Yes	\$2,263.20	\$136.80	
		Hazmat Abatement		LS	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Retaining Wall - Reinforced Concrete Cantilevered		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Earthwork	General Excavation		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Drainage Excavation		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Structural Excavation		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Structural Backfill		CY	200	\$18.00	\$3,600.00	Yes	\$3,394.80	\$205.20
			Borrow (In Place)		CY	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Curb & Gutter		LF	100	\$18.00	\$1,800.00	Yes	\$1,697.40	\$102.60	
		Aggregate Base		CY	50	\$30.00	\$1,500.00	Yes	\$1,414.50	\$85.50	
		Pathway Or Sidewalk Materials	Concrete		SF	400	\$6.00	\$2,400.00	Yes	\$2,263.20	\$136.80
			Colored Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Color Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Precast Concrete Pavers		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Asphaltic Concrete		sq yard	60	\$72.00	\$4,320.00	Yes	\$4,073.76	\$246.24
			Polymer or Resin Stabilized Surface		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Crosswalk Enhancement	Concrete Pavers		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Asphalt		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Stamped Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Integral Color Concrete		SF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Pedestrian ADA Ramp		Each	2	\$3,600.00	\$7,200.00	Yes	\$6,789.60	\$410.40	
		Culvert Extensions		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
Pedestrian Lighting Including Conduit And Trenching		Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00			
Handrail	Standard		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
	Decorative		LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00		
<b>Subtotal Hardscape Construction</b>					<b>\$28,920.00</b>		<b>\$27,271.56</b>	<b>\$1,648.44</b>			

**PART D - TRANSPORTATION ALTERNATIVES COST ESTIMATE FORM**

Please provide a detailed cost estimate for this project. The data entered in this cost estimate sheet will automatically transfer into the correct fields in Part E. Rows 1-9 will remain visible at the top of this page at all times.

<b>Sponsoring Agency:</b>	Glendale	<b>Project Title:</b>	65th Ave & Bethany Home Rd HAWK	<b>Application Date:</b>	10/22/2013
---------------------------	----------	-----------------------	---------------------------------	--------------------------	------------

Part	Item Description	Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)	
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	2. Landscaping & Irrigation Items	Requirements	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trees (15 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trees (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Shrubs (1 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Cactus (5 Gallon Size)	Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Mulch	Decomposed Granite	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Organic	CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Topsoil		CY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Seeding		Acre	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Turf Sod		SY	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Boulders		Each	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Irrigation System	Drip	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Turf	SF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Sleeving For Irrigation System	Directional Bore	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
			Cut and Patch	LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Landscape Header Curb		LF	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Landscape Establishment		LS	1	\$0.00	\$0.00	Yes	\$0.00	\$0.00
		Repair/replace damaged landscaping and irrigation		LS	1	\$10,000.00	\$10,000.00	Yes	\$9,430.00	\$570.00
		Subtotal Landscaping & Irrigation Items							\$9,430.00	\$570.00
	3. Site Furnishings	Benches	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Seatwalls	LF	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Bike Racks	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Trash Receptacles	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Drinking Fountains	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Signage (Standard Traffic Control)	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Signage (Wayfinding)	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Tree Grates	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00	
		Subtotal Site Furnishings							\$0.00	\$0.00
		4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)	Bicycle and Pedestrian Counter	Each	0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
	HAWK equipment - Controller, poles, arms, streetlights, CCTV, fiber optics, cabling, camera, pedestal cabinets		Each	1	\$90,000.00	\$90,000.00	Yes	\$84,870.00	\$5,130.00	
	Installation of HAWK equipment		Each	1	\$48,000.00	\$48,000.00	Yes	\$45,264.00	\$2,736.00	
	Pole foundations and directional bore for conduit		Each	1	\$30,000.00	\$30,000.00	Yes	\$28,290.00	\$1,710.00	
					0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
					0	\$0.00	\$0.00	Yes	\$0.00	\$0.00
	Subtotal Other Construction							\$158,424.00	\$9,576.00	
	5. Mobilization And Administration Costs	Contractor Mobilization	LS	1	\$6,000.00	\$6,000.00	No	\$0.00	\$6,000.00	
		Traffic Control	LS	1	\$18,000.00	\$18,000.00	Yes	\$16,974.00	\$1,026.00	
		Construction Survey & Layout	LS	1	\$6,000.00	\$6,000.00	Yes	\$5,658.00	\$342.00	
		Construction Contingencies	LS	1	\$24,000.00	\$24,000.00	Yes	\$22,632.00	\$1,368.00	
		Construction Administration	LS	1	\$40,000.00	\$40,000.00	Yes	\$37,720.00	\$2,280.00	
		Subtotal Mobilization & Administration Costs							\$82,984.00	\$11,016.00
<b>Subtotal Construction Or Implementation Cost (Part E)</b>							<b>\$300,920.00</b>	<b>\$278,109.56</b>	<b>\$22,810.44</b>	
F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)							<b>\$415,920.00</b>	<b>\$278,109.56</b>	<b>\$137,810.44</b>	
G. Adot Fee For Pe Reviews And Staff Charges (The higher of \$20,000 or 2% of Total Cost (Part F))							<b>\$20,000.00</b>	<b>\$0.00</b>	<b>\$20,000.00</b>	
H. Total Project Cost Including ADOT Fees (Part F + Part G)							<b>\$435,920.00</b>	<b>\$278,109.56</b>	<b>\$157,810.44</b>	

**PART E - TOTAL PROJECT SCHEDULE AND BUDGET INCLUDING ALL SEGMENTS**

Please verify that the cost and programming estimates for the total project are correct below. The numeric values on this sheet (in GREY) are automatically populated from the cost estimate sheet (Part D) and cannot be modified. If there are any errors in the numeric values on this sheet, please verify and correct the numbers you have entered into the cost estimate sheet (Part D). You MUST fill in the GREEN portions of Part E manually.

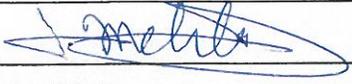
The design for the project should be programmed at least 1 year, preferably 2 years, prior to construction. Utilities and right of way should be programmed at least 1 year prior to construction, but may occur in the same year as construction depending on utility and right of way concerns that are identified in questions 23-26 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)			
1. ADOT Fee	\$20,000				
2. Design	\$115,000				
3. Right of way	\$0				
4. Utilities	\$0				
5. Construction	\$300,920				
6. Total Cost	\$435,920				
7. Will the agency maintain the improvement after it is completed?		<input type="text" value="Yes"/>			
8. Expected Annual Maintenance Cost		<input type="text" value="1,500"/>			
9. Identify Source of Maintenance Funds		<input type="text" value="On going traffic signal maintenance budget"/>			
Requested MAG Programming	Year	Local Funding Source	Local Cost	Federal Cost	Total Cost
10. Design	2015	HURF	\$115,000	Not Available	\$115,000
11. ADOT Fee	2015	HURF	\$20,000	Not Available	\$20,000
12. Right of way and Utilities			\$0	Not Available	\$0
13. Construction	2017	HURF	\$22,810	\$278,110	\$300,920
14. Total Costs			\$157,810	\$278,110	\$435,920

PART F - SIGNATURE AND CHECKLIST	
Checklist	
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.	
<b>COVER SHEET</b>	<b>Complete?</b>
Cover Sheet is completely filled out	YES
<b>PART A - Contacts and Project Description Fields</b>	<b>Complete?</b>
Contact Information, fields 1 – 5 are complete	YES
Project Description, fields 6 - 8 are complete	YES
Safe Routes to School, fields 9-12 are complete (if applicable)	
<b>PART B - Project Description</b>	<b>Complete?</b>
Fields 1 - 11 (Project Description) are complete	YES
Fields 12– 14 (Transit and Access) are complete	YES
Fields 15 – 19 (Attractors and Demographics) are complete	YES
Fields 20 – 26 (Traffic, Environmental, ROW, and Utilities) are complete	YES
Fields 27 – 29 (Guidelines, Policies, and Plans) are complete	YES
Fields 30 – 33 (Maintenance and Performance Measurement) are complete	YES
<b>PART C - Required Attachments</b>	<b>Complete?</b>
Field 1 - Project map is provided in the printed application and the PDF application	YES
Field 2 - Up to 4 photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	YES
Field 3 - Cross-section(s) provided in the printed application and the PDF application.	YES
(OPTIONAL)- Up to 2 photos/renderings of the completed project are provided in the printed application and the PDF application.	
(OPTIONAL) - Crash report(s) are provided in the printed application and the PDF application	
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	
<b>PART D - Cost Estimate Worksheet</b>	<b>Complete?</b>
Sponsoring Agency, Project Title, and Application Date are complete	YES
Part A - Scoping is complete	YES
Part B - Final Preliminary Engineering Design is complete	YES
Part C - Right-of-Way Acquisition is complete	YES
Part D - Utility Relocation is complete	YES
Part E - Construction or Implementation is complete	YES
Parts F, G, and H - Costs are complete and accurate	YES
<b>PART E - Total Project Schedule and Budget Including All Segment Fields</b>	<b>Complete?</b>
Fields 1 – 6 are complete and costs are accurate	YES
Field 7 - 9 are complete	YES
Fields 10 – 13 Years are complete	YES
Fields 10 – 13 Local Funding Sources are complete	YES
Fields 10 – 13 Local Costs are complete and accurate	YES
Field 10 - 13 Federal Costs are complete and accurate	YES
Field 14 Total Costs are complete and accurate	YES
<b>PART F - Signature and Checklist</b>	<b>Complete?</b>
Entire checklist is completed.	YES
Form is signed by MAG member agency's manager/administrator or designated representative.	YES
Name, title and date fields under the signature are completed.	YES
(SAFE ROUTES TO SCHOOL PROJECTS ONLY) - Additional signatures and related name, date, and title are completed.	

## SIGNATURE(S):

As the MAG member agency's manager/administrator or designated representative, I certify that this application is accurate and complete and that the project will be included in the sponsoring MAG member agency's local CIP/TIP if the project is selected for federal funding.

Signature:	
Name:	Jamsheed Mehta
Title:	Interim Assistant City Manager
Date:	17-Oct-13

### Complete the following ONLY if this is a Safe Routes to School Project.

Note: All signatures indicate an agreement in principle and a partnership on this project between the applicant and the signing organization. Although not all signatures are required, applications that include more signatures will be ranked higher.

<b>School/Site Official (required):</b> (Principal, assistant principal, teacher-in-charge, PE Teacher, SRTS coordinator)	
Signature:	
Name:	
Title:	
Date:	
<b>School District official (required):</b>	
Signature:	
Name:	
Title:	
Date:	
<b>Law Enforcement Official (required):</b>	
Signature:	
Name:	
Title:	
Date:	

## ATTACHMENT: MAG CRASH DATA

MAG has provided crash summaries for this project, as requested by the agency,  
in reference to Part B, Question 6 of the MAG Transportation Alternatives Application

<b>Glendale, Project #2, Pedestrian</b>						
<b>Year</b>	<b>Severity</b>					<i>5 total</i>
	1	2	3	4		
2008	0	1	0	0	0	<i>1</i>
2009	1	0	1	0	1	<i>3</i>
2010	0	0	1	0	0	<i>1</i>
2011	0	0	0	0	1	<i>1</i>
2012	1	2	0	1	0	<i>4</i>
2013	0	0	0	0	0	<i>0</i>
<i>total</i>	<i>2</i>	<i>3</i>	<i>2</i>	<i>1</i>	<i>2</i>	<i>10</i>

<b>Glendale, Project #2, Bicyclist</b>						
<b>Year</b>	<b>Severity</b>					<i>5 total</i>
	1	2	3	4		
2008	0	2	0	0	0	<i>2</i>
2009	2	2	0	1	0	<i>5</i>
2010	1	0	0	0	0	<i>1</i>
2011	0	0	1	0	0	<i>1</i>
2012	0	2	0	0	0	<i>2</i>
2013	0	0	0	0	0	<i>0</i>
<i>total</i>	<i>3</i>	<i>6</i>	<i>1</i>	<i>1</i>	<i>0</i>	<i>11</i>