



**DESIGN ASSISTANCE APPLICATION
for FY 2016**

Cave Creek Traffic Calming Roundabouts

Town of Cave Creek, AZ

**APPLICATIONS ARE DUE VIA ONLINE SUBMITTAL BY
10:00 AM ON MONDAY, JUNE 29, 2015**

DESIGN ASSISTANCE FY 2016 APPLICATION

Cave Creek: Cave Creek Traffic Calming Roundabouts

PART A - CONTACT AND PROJECT DESCRIPTION

Contact Information

1. Name of Sponsoring Agency	Cave Creek
2. Project Manager Name and Title	Ian Cordwell, AICP - Director of Planning
3. Phone Number of Project Manager	480-488-6614
4. E-Mail Address of Project Manager	icordwell@cavecreek.org
5. Mailing Address of Project Manager	37622 N. Cave Creek Road, Cave Creek, AZ 85331

Project Description

6. Please provide the Project Title.	Cave Creek Traffic Calming Roundabouts
7. Please provide the amount of funding requested:	\$50,000.00

8. Please provide a specific description of the project (i.e. bike path or sidewalk, width, length, cement or asphalt, etc.) (250 character limit):

The Town would like to study the design options for a roundabout intersection model at School House Road and at Rancho Manana Blvd. along Cave Creek Road. Project will include safety improvements for traffic calming, provide a dedicated bike lane connection through the intersections, and enhance the pedestrian environment for crossing Cave Creek Road at 2 major town intersections.

9. Please provide the project limits:

Intersections of Cave Creek Road at School House Road and at Rancho Manana Blvd., plus 500 ft in each direction from intersections

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PART B - PROJECT DESCRIPTION

1. What type of project is this?

<input checked="" type="checkbox"/>	Bicycle lane (4' min. w/o curb/gutter)	<input type="checkbox"/>	Grade-separated crossing
<input type="checkbox"/>	Bicycle lane (5' min. with curb/gutter)	<input type="checkbox"/>	Sidewalk (5' min.)
<input type="checkbox"/>	Buffered Bike Lane	<input checked="" type="checkbox"/>	Wide Sidewalk (8' min.)
<input type="checkbox"/>	Protected Bike Lane	<input checked="" type="checkbox"/>	Detached Sidewalk with 4' min. buffer
<input type="checkbox"/>	Shared-use path (10' min.)	<input type="checkbox"/>	Midblock Crossing

2a. Please describe the existing condition of the project site and any problem(s) being addressed.

The intersection of Cave Creek and School House Roads is the main 4-way stop (stop sign controlled) of the Town and in the heart of the Town Core. Traffic frequently performs rolling pause movement in lieu of complete stops. Of the 4 corners, only 1 has a paved surface and none have ADA ramps. The crosswalks lack visibility and have no tactile surfacing. The Rancho Manana intersection is not a controlled intersection and has no pedestrian facilities for access or crossing. The speed limit is 45 mph along this segment of Cave Creek Road at the intersection of Rancho Manana. Neighborhoods are disconnected from the destination on either side of Cave Creek Road.

2b. Why is this project important to the community?

Residents of Andora Crossing Subdivision requested a roundabout at the intersection of Cave Creek Road and Rancho Manana Boulevard because of dangerous roadside and crossing conditions for their residents, many of whom are elderly. The intersection of Cave Creek and School House Roads brings daily complaints of near-miss collisions, as well as actual collisions, at a four-way stop. The safety issue has been raised by several Town Council members. Pedestrian safety with traffic calming is a high priority for the Town and its local residents and many visitors.

3. Connectivity: (Check all that apply)

- Project fills a gap in the regional system
Explain:
- Project connects to other local facilities
List the connected facilities:
- Multi Jurisdictional Project
List of Participating Jurisdictions:
- Total length of facilities connected by this project (in miles)

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4. Describe how this project will improve access from nearby neighborhoods and/or adjacent uses:

There is currently no complete sidewalk or path system connecting local neighborhoods to the road network and community destinations. Neighborhood users currently use road shoulders or paved edge of road to circulate without a vehicle. This project will establish a safe and comfortable connector for neighborhood users.

5. Describe how this project will improve access to transit:

Cave Creek does not have access to any transit facilities as a rural community.

6. Describe how this project will address bike/vehicle or pedestrian/vehicle conflicts:

The intersection of Cave Creek and School House Roads brings daily complaints of near-miss collisions, as well as actual collisions, at a four-way stop. Residents of Andora Crossing Subdivision requested a roundabout at the intersection of Cave Creek Road and Rancho Manana Boulevard because of dangerous conditions for their residents, many of whom are elderly. Both intersections do not have ADA compliant crossings and lack pedestrian safety features. By calming the traffic at these intersections and designing new pedestrian friendly features, the Town hopes to improve safety and circulation in its Town Core. The proposed roundabout is a tool consistent with the recent MAG Framework study recommendations to provide a transition zone between nodes and corridors.

7. What are the demographics of the area served:

[MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

% Age 65 Plus

Use the MAG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reports," select "Custom Summary." 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 "Report 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 Excel icon at the top right side of the pop-up window) for your records.

8. How will this project benefit families in poverty?

This project will benefit all residents, and visitors, regardless of social status or income. The traffic calming study is proposed to improve safety and circulation efficiency within the Town, including multi-family developments, to Municipal facilities and destinations. Lower income, non-drivers will have an accessible route to many public facilities with this project. The community has no mass transit network.

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9. How will this project benefit minority residents?

This traffic calming project will serve all residents, and visitors, regardless of minority status.

10. How will this project benefit elderly residents?

This study for future roundabout will serve all residents regardless of age. Vehicles and mobility challenged residents, and visitors, will be able to circulate within the community with a safer intersection model. This will also increase traffic calming at 2 major intersections and promote pedestrian safety.

11. How will this project benefit school children?

There is a Montessori school within 300 ft. of Cave Creek Road at Spur Cross Road. This site is within a half mile of School House Road and 1/4 mile of the Rancho Manana Blvd. intersection.

12. Please list any schools within 1/4 mile of the project:

Quality Interactive Montessori
38424 N. Spur Cross Road, Cave Creek, AZ

13. How does the project benefit persons with disabilities?

Disabled and mobility challenged residents, and visitors, will be able to enjoy a safer environment with the traffic calming features proposed by the study. Safe circulation conditions will be provided for connection to community destinations. Roadway crossings will have a safe and identifiable route linking both sides of the arterial road.

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14. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
List:
Included in the 2013 MAG Framework Study as a transition area, 2005 General Plan Circulation Element and Town Core Plan.
- Consistent with general policy/practices, but not formally identified (provide source)
Explain:
- Not addressed by jurisdiction's plans, policies, or practices
Explain:

15. List the community partners that will be supporting the development and promotion of this project. Include city departments that will also be supporting the project.

The Town Engineering staff, Town Planning Staff, Town Council, local business leaders, and residential community groups support this project.

16. Does the jurisdiction have a dedicated staff person to manage the project? Which city department will be responsible to provide information to the consultant?

Yes, Ian Cordwell, Planning Director of Cave Creek will serve as Project Manager. He will provide support and serve as liaison to other Town departments to provide an as-built or existing information regarding the project area.

17. Does the jurisdiction have base information available (topo survey, aerial photography, ALTA survey in electronic/digital format, easement information, utility placement information)?

Yes, the Town has aerial images, limited CAD of right of way and parcel information, and utility mapping.

Part C - 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 IN YOUR ELECTRONIC SUBMITTAL.

1. Please attach a map with street names clearly showing the project area boundaries and surrounding land uses, including a north arrow.

2. Please attach up to 2 aerial photos, if available (two 4x6 photos per page).

3. Please attach up to 4 photographs with captions of the study area showing the problems/issue (two 4x6 photos per page).

4. If the applicant is not the owner(s) of the project area, a letter of support and cooperation from the property owner(s) is required. This letter shall state that the property owner(s) agree to participate in the development of preliminary plans, and to permit improvements that may be identified as a result of this program.

5. (OPTIONAL) Up to 3 letters of support for the project.

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PART D - PROJECT COSTS

1. What is the approximate cost for 15% preliminary plans* for this project? Estimate cost for each task below:

\$1,000	Scope of Work
\$4,000	Stakeholder and Core Team Meetings
\$12,000	Data Collection
\$10,000	Data Analysis
\$8,000	Project Assessment Report (Draft)
\$12,000	Project Assessment Report (Final)
\$3,000	Executive Summary and Regional Significance Report
\$50,000	TOTAL COST ESTIMATE FOR 15% PRELIMINARY PLANS (SHOULD MATCH PART A, #7)

*15% Preliminary Plans generally include:

- Project Information (location, description, map)
- Background data including the need for the project
- Project Scope (length, type of work, how it is to be constructed)
- Project Development
- Environmental overview
- Geotechnical and drainage requirements
- Critical outside agency involvement
- Preliminary Right-of-Way requirements
- Preliminary Utility relocation requirements
- Preliminary Traffic requirements
- Seasonal consideration
- Design Criteria
- Itemized Cost Estimate
- Schedule
- Preliminary Plans
- Preliminary Pathway Horizontal Layout
- Typical Sections
- Preliminary Aesthetic Concept
- Information on potential funding sources
- Executive Summary

2. What is the anticipated cost for the whole project (please break down costs by design, environmental, ROW, utilities, construction, etc)?

Complete project costs are anticipated to be as follows: - Final Design \$90,000 (including environmental clearance consultants), \$0 ROW costs, \$0 utility relocation costs, \$800,000 construction costs, \$30,000 construction administration costs

3. Are there designated funds for construction of this project? If yes, what funding sources have been identified?

No construction funding has been identified at this time.

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4. If funding has NOT been identified for construction of the project, what efforts have been made to identify funds that could be used for this project?

The MAG study will include identification of possible funding sources and grant opportunities for the construction of the project.

5. Are there funds for maintenance? Who has the responsibility for maintenance?

The funding for maintenance will be added to the annual operations budget of the Town. The Town currently maintains each intersection and there would be insignificant increase in costs is anticipated from this project.

6. Is an easement required for this project? If YES, please attach a Property Owner Letter of Support.

The size of the roundabouts and pedestrian intersection improvements will determine if existing right of way is adequate. At this time, the Town believes that there is room within existing public areas.

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PART E - SIGNATURE AND CHECKLIST

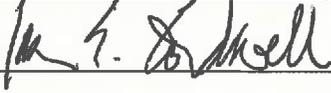
Checklist

This check list is included to facilitate applicant review and verification that all required fields in the form have been completed. Incomplete applications will not be accepted.

COVER SHEET	Complete?
Cover Sheet is completely filled out	Yes
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	Yes
Project Description, fields 6 - 9 are complete	Yes
PART B - Project Description	Complete?
Fields 1 - 17 are complete	Yes
PART C - Attachments	Complete?
Attachment 1 - Map with street names	Yes
Attachment 2 - Aerial photos (if available)	Yes
Attachment 3 - Photographs with captions of the study area showing the problems/issues	Yes
Attachment 4 - Letter of Support and Cooperation from Property Owner (if required)	Yes
Attachment 5 - Up to 3 Letters of Support (OPTIONAL)	Yes
PART D - Project Costs	Complete?
Fields 1-6 are complete	Yes
PART E - Signature and Checklist	Complete?
Entire checklist is completed.	Yes
Form is signed by MAG member agency's manager or administrator.	Yes
Name, title and date fields under the signature are completed.	Yes

SIGNATURE:

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

Signature:	
Name:	Ian Cordwell
Title:	Director of Planning
Date:	06.29.15

PROJECT AREA
CAVE CREEK ROAD
INTERSECTION OF
RANCHO MANANA
(+500 FT EACH
DIRECTION)

PROJECT AREA
CAVE CREEK ROAD
INTERSECTION OF
SCHOOL HOUSE ROAD
(+500 FT EACH
DIRECTION)



NORTH
NOT TO SCALE

AREA BOUNDARY MAP - Part C.1

TOWN OF CAVE CREEK
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Intersection of Cave Creek Rd. and Rancho Manana Blvd.



Intersection of Cave Creek Rd. and School House.

AERIAL PHOTO MAP - Part C.2

TOWN OF CAVE CREEK
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Existing intersection conditions at School House Road



Existing intersection conditions in background for Rancho Manana

AREA PHOTOS - Part C.3



Ian Cordwell

From: MARY ELLEN CROSS <maryerocks1@gmail.com>
Sent: Saturday, June 27, 2015 2:44 PM
To: Ian Cordwell
Subject: Rancho Manana Blvd. Roundabout

Ian,

On April 17, 2014, one of our Andora Crossings' residents was involved in a two-car accident at Rancho Manana Blvd. and Cave Creek Roads. Peggy Conteras was turning left (west) out of Andora Crossings. There was no traffic heading north on Cave Creek Road when she pulled out. Peggy proceeded. Her car was hit and pushed over the center median. When her car stopped, Peggy was facing oncoming traffic.

Our two homeowners' associations and residents are truly frightened with this dangerous intersection. Very few drivers obey the 30 mph speed limit in this area. Once drivers are heading out of town, they accelerate. The speeding and driver's lack of visibility on this curve is extremely hazardous. Our residents are insecure with approaching this intersection. So much so, Villas of Black Mountain and Andora Crossing residents are making a right hand turn (east on Cave Creek Rd) rather than chance a risky left turn. These drivers are creating more traffic for the Cave Creek town center without adding sales revenue for the town.

Our respective HOA boards support and encourage the concept of constructing a roundabout at our entrance. We understand the costs associated with traffic control and feel this idea will improve the safety aspect plus the flow of traffic into Cave Creek.

Sincerely,

Frank Coddens, President Andora Crossing HOA
Hal Weise, Vice President Villas of Black Mountain HOA

June 28, 2015

Ian Cordwell, AICP

Director of Planning

Town of Cave Creek

Dear Ian,

As a 47 year resident of this community, I've witnessed many accidents and near accidents at the School House Road and Cave Creek Road intersection. These days, I literally "park" at that corner before proceeding as many drivers do not stop or they do not wait their turn.

I'm totally in favor of a round-about at that corner. The sooner a round-about is constructed, the better. It will make that corner safer.

The Europeans have been successful with round-about for many years. We Americans can follow their example.

Thank you for your efforts to make our town a safe place to drive.

Sincerely,

Martha M. Arnold

6111 E. Fleming Springs Road

Cave Creek, AZ

Ian Cordwell

From: Mark Hazelton <mark.hazelton@russlyon.com>
Sent: Sunday, June 28, 2015 10:57 AM
To: Ian Cordwell
Subject: dangerous intersections

Ian Cordwell, AICP
Director of Planning
Town of Cave Creek

Dear Ian,

Thank you for taking the initiative to study the possibility of traffic roundabouts to make our community safer.

As long time residents we have witnessed too many serious crashes particularly at the intersection of Cave Creek and Schoolhouse Road. My wife, daughter and I must negotiate this 4 way stop every day and, on average, witness a car ignore or simply not see the stop signs at least once a week. This is such a common event that we are very concerned for our safety and that of our neighbors.

As you know, there was a near fatal accident there 2 months ago that caused the intersection to be closed for many hours. Please continue your efforts to make us all safer. Thank you. Mark and Jacque Hazelton

Mark W. Hazelton
REALTOR | EcoBroker Certified®
32 Years Experience



34305 N. Scottsdale Road
Scottsdale, AZ 85266



480-488-7527 Office
602-399-0399 Mobile
480-624-3438 Fax