



Transportation Alternatives / CMAQ Application for
FY 2018, 2019, and 2020 Projects

City of Phoenix Bikeshare Expansion Project

City of Phoenix

**APPLICATIONS ARE DUE AT MAG OFFICES BY
Monday, September 21, 2015 at 10:00 a.m.**

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

Phoenix: City of Phoenix Bikeshare Expansion Project (2020)**PART A - CONTACT AND PROJECT DESCRIPTION****Contact Information**

1. Name of Sponsoring Agency	Phoenix
2. Agency Contact Name	Scott Logan
3. Phone Number of Agency Contact	602-4955-7065
4. E-Mail Address of Agency Contact	scott.logan@phoenix.gov
5. Mailing Address of Agency Contact	200 W. Washington Street, 6th Floor, Phoenix, Arizona 85003

Project Description

6. Please provide the Project Title.	City of Phoenix Bikeshare Expansion Project (2020)
7. Please provide a concise, specific description of the project (250 character limit):	The project scope consists of the siting, procurement, and installation of bikeshare equipment to expand the Citywide GRID bikeshare program. As part of this scope, approximately 250 "bikeshare" bicycles, 360 bicycle racks, 13 large Sign Displays, and 10 bikeshare kiosks will be purchased to expand services for this program. This expanded system will compliment the City's existing bikeshare system launched in November, 2014. As part of the launch, the system opened with approximately 100-plus bicycles and 27 station locations. Since this launch, an additional 100-plus bicycles have been added to the system. Approximately \$1.7 million has been spent on the program to date to launch a 300 bike system. Another \$1.3 million (including private, city and federal funding) will be spent in fiscal year 15/16 to launch an additional 450 bikes in 40 locations
8. Please provide the project limits:	The project limits are broad with bikeshare stations planned along the existing and future light-rail station extensions. The twenty-two planned station locations are located in a boundary from Interstate 17 to 7th Street, and from Butler Drive to Baseline Road. Please see the attached map showing the bikeshare station locations.

Phoenix : City of Phoenix Bikeshare Expansion Project (2020)

PART B-DETAILED 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 14-20, 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. Please select which funding source(s) this project is applying for. Check all that apply.

- Congestion Mitigation and Air Quality (CMAQ)
- Transportation Alternatives (TA)

2. What type of project is this? (Check all that apply)

- | | |
|--|---|
| <input type="checkbox"/> Bicycle Lane (4' min. w/o curb/gutter) | <input type="checkbox"/> Shoulder paving is within 4-miles of a PM-10 Monitor |
| <input type="checkbox"/> Bicycle Lane (5' min. with curb/gutter) | <input type="checkbox"/> Wide Sidewalk (8' min.) |
| <input type="checkbox"/> Buffered Bike Lane | <input type="checkbox"/> Detached Sidewalk with 4' min. buffer |
| <input type="checkbox"/> Protected Bike Lane | <input type="checkbox"/> Signalized Crossing |
| <input type="checkbox"/> Shared-use path (10' min.) | Other: |
| <input type="checkbox"/> Sidewalk (5' min.) | <input type="text" value="Procure Bikeshare Program Equipment"/> |
| <input checked="" type="checkbox"/> Planning Study | |

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

- | | |
|--|----------------------|
| <input type="checkbox"/> Bridge (overpass) | Other: |
| <input type="checkbox"/> Tunnel (underpass) | <input type="text"/> |
| <input type="checkbox"/> Signalized midblock crossing/HAWK | |
| <input type="checkbox"/> Countdown Pedestrian Signal | |

4. What amenities are included in this project?

- | | |
|---|--|
| <input type="text" value="360"/> Number of Bike racks/lockers | <input type="text"/> Number of Seating/Rest Area(s) |
| <input type="text"/> Number of Drinking Fountains | <input type="text"/> Number of bicycle/pedestrian counting devices |
| <input type="text"/> Number of Way-finding Signs | <input type="text"/> Number of bicycle/pedestrian counting devices |
| <input type="text"/> Number of Trash receptacles | Other: |
| <input type="text"/> Number of Trees | <input type="text" value="The other bikeshare equipment components include 250 bikes, 13 Large Sign Displays, and 10 Payment Kiosks with bike helmet dispensers"/> |
| <input type="text"/> Number of new openings in street walls | |
| <input type="text"/> Number of Shade Structures | |

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PART B-DETAILED PROJECT DESCRIPTION

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

Statistics show that there is a heavy dependence on the automobile mode share in the city. To encourage alternate transportation mode options, the City has launched a GRID bikeshare program in 2014 to encourage a convenient and affordable bicycle rental system. This program meshes almost seamlessly with intra-city services including the regional light-rail and bus systems, making it about as painless as possible for commuters to leave their cars at home. The program also addresses health and sustainable objectives(listed below) as well as enhance community cohesion.

- Create an additional green public transit and light rail mode;
- Create green jobs and promote green business in Phoenix;
- Increase the mode share of cycling in the city;
- Facilitate transit for commuters, tourists, and other visitors (supplement existing mass transit including light rail).

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

Project work includes siting bikeshare station locations, both on-street and off-street, to provide users with a safe, convenient access to this system. It also entails assembling and installing the bikeshare station racks, kiosks, and bicycles at these station locations. On-going work includes the maintenance of the stations/bikes and redistribution of the bicycles on a daily basis.

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

The City's main objective with this project is to increase the mode share for cycling with a system that is affordable, accessible, and easy to use. Key factors for achieving this objective includes expanding the existing system to provide "convenience" for users with respect to access to station locations in close proximity to their origins and destinations. Other objectives of the program are to provide the "last mile" for transit/light rail users, create additional "green" jobs, and promote businessess in Phoenix.

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

- Medians with pedestrian crossing islands
- Roadway Reconfiguration (Road Diet)
- Striping/re-striping to narrow vehicle lanes
- Color pavement or similar treatment
- Lighting
- Landscape buffer between sidewalk and roadway
- Rectangular Rapid Flash Beacon (RRFB)
- Driver Feedback Sign

Other

Bikeshare station locations will bolster the need for new bike lanes along City streets. These new bike lanes may be installed along existing streets by either narrowing travel lanes or by road diets.

9. Does this project include a road safety education component?

- Yes
- No

Please Explain:

The GRID bikeshare regularly distributes biking safety tips to their users through their program website and flyers

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PART B-DETAILED PROJECT DESCRIPTION

10. How does this project or planning study address safety?

Bikeshare addresses safety by reducing the number of cars on the street. This reduction in automobile traffic equates to less vehicular conflicts along congested corridors and major intersections. Congestion is a major contributing factor for many crashes occurring in the city.

11. How does the project improve ADA facilities for persons with disabilities?

Bike share may require some sidewalks to be widened or new ADA ramps to be built.

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

Bike share programs encourage neighborhood connectivity by increasing commuting solutions. With the expansion of the system within the community, bikeshare stations will be located in many more neighborhoods to benefit these residents. It also improves access from nearby neighborhoods by locating bikeshare station locations next to transit and light rail stops as well as within the neighborhood. This station plan also provides convenience for users who are using the bikeshare system for the "last" mile of their trip to their residence.

13. How does the project create a sense of place?

Bikeshare enhances the "sense of place" by encouraging more cohesiveness with the community. It creates bonds between users and places and enhances their enjoyment of the surrounding environment. Also, greater relationships to place and community are formed by introducing an alternate mode of travel currently not afforded to the users.

14. Connectivity: (Check all that apply)

Project fills a gap in the system
Explain:

Proposed Bikeshare stations will be located next to Metro light-rail stations and transit stops to provide users with the "last" mile trip mode

Project connects to other local bikeways
List of connected bikeways:

Proposed bikeshare stations will be located along Maryland Avenue, 15th Avenue, 3rd Street, Washington Street, Jefferson Street, Roosevelt Street and other streets with designated bike routes.

Multi Jurisdictional Project (please include letter of support (See Part C)
List of Participating Jurisdictions:

GRID bikeshare is a regional project. City of Mesa and Tempe will be deploying their GRID bikeshare programs in 2016/2017.

Total length of bikeways directly connected by this project (in miles)

15. 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.

Within 1/4 mile

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PART B-DETAILED PROJECT DESCRIPTION

16. Number of transit routes serviced by the transit stops in question 15 that this project will connect to. List associated route(s) and their peak frequency, using Valley Metro as the source.

18 Within 1/4 mile

List routes and frequency:

Route ZERO (Central Avenue) - every 10 mins., Route 7 (7th Street) - every 20 mins., Route 8 (7th Avenue) - every 30 mins., Route 10 (Roosevelt/32nd Street) - every 7 mins., Route 13 (Buckeye) - every 30 mins., Route 16 (16th Street) - every 15 mins., Route 19 (19th Avenue) - every 11 mins., Route 45 (Broadway) - every 15 mins., Route 50 (Camelback) - every 10 mins., Route 52 (Roeser) - every 30 mins., Route 60 (Bethany Home) - every 30 mins., Route 61 (Southern) - every 15 mins., Route 70 (Glendale/24th Street) - every 14 mins., Route 77 (Baseline) - every 30 mins., Route 80 (Northern/Shea) - every 30 mins., Route SSCR (Sunnyslope Multi Access Residential Transit) - every 35 mins., Route CSM (Central South Mountain Rapid) - every 30 mins., Route Light Rail (Valley Metro Rail) - every 12 mins.

17. Number of major transit facilities (park and rides, transit centers, etc.) served by this project:

0 Within 1/4 mile

List:

None

18. Number of non-commercial activity centers (parks, libraries, senior centers, recreational centers, etc.) this project will benefit:

14 Within 1/4 mile

List:

Parks (4): Colter, Royal Palm, El Prado, El Reposo Career Center (2): Friendly House Career Center, Ocotillo Library and Workforce Literacy Center Community Center(1): South Phoenix Youth Center Library(1): Ocotillo Branch Library Family Service Center (1): Travis L. Williams Family Services Center Senior Center (1): Chinese Senior Center Recreation Center (4): Grant Recreation Center, Grant Pool, El Prado Pool, Roosevelt Pool

19. 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):

13 Within 1/4 mile

List:

Warehouse Business Parks (4) Retail Centers (9): Family Dollar Plaza, Foothill Shopping Center, South Plaza Shopping Center, Food City Plaza (2), Dollar Tree Plaza, Fry's Food Plaza, Walgreens Plaza, Camelback Village Square

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

3 Within 1/4 mile

List:

Lowell School, Sunland Elementary School, Ignacio Conchos School

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PART B-DETAILED PROJECT DESCRIPTION

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

8 Within 1/4 mile

List:

Private School (2): Montessori Childrens House, Valley Luterhan High School Charter School (5): Crittenton Youth Academy, NFL YET College Prep Academy, Reyes Maria Ruiz Leadership Academy, Esperanza Montessori Academy, Champion Schools High School (1): South Mountain High School

22 Number of activity centers for air quality cost effectiveness (i.e. bank, church, hospital, health care facility, light rail station, park-and-ride lot, office park, post office, public library, shopping area, grocery store, university or junior college):

15 Within 1/4 miles

List:

Church (11): Mount Calvary Lutheran Church, Bethany Bible Church, Church Of The Beatitudes, First Christian Church Of Phoenix, First Christian Church Of Phx Az, Lafuente De Salvacion Church, Neighborhood Congregational Church, Church Of All Nations, Latin American Christian Fellowship Mini, Jesus Faith Center Ministries, St Anthony Roman Catholic Parish Phoenix Light Rail Stop (1): 7th Ave and Camelback Rd Library (1): Ocotillo Branch Library US Post Office (1): 7th St and Vineyard Health Care Facility (1): Cigna Medical Group

49 1/4 miles to 1/2 miles

List:

Church (25): First United Methodist Church, 1st Methodist Ch Of Phx, First Methodist Ch Of Phoenix, Second Church Of Christ Scientist, Beth El Congregation & Hebrew School, Living Streams Christian Church, Open Door Fellowship Inc, First Mennonite Church Inc, Apostolic Assembly Of The Faith, Society Of Saint Pius X Phoenix Az Inc, Heavengate Praise Fellowship, Southern Baptist Tempe Ch Tr, Kingdom Of The Lord Christian, J O Burns Christian Ministries Inc, Wesley United Methodist Ch, Jo Burns Christian Ministries Inc, Whole Truth Church Of God In Christ, Central Association Of Southern Baptists, Family Of Faith Ministries Inc, Willow Grove Missionary Baptist Church, Erives Ralph C, Southside Church Of Christ, Hope Evangelstic Community Center, Iglesia Bautista El Sembrador, Roman Catholic Ch Of Diocese Of Phoenix Light Rail Stop (3): Central Ave and Camelback Road, Washington St. and Central Ave, Jefferson St. and 1st Ave Library (1): Harmon Branch Library Grocery Stores (20)

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PART B-DETAILED PROJECT DESCRIPTION

23. What are the demographics of the area served: [MAG Demographic Mapping](#)

People Per Square Mile

% Families in Poverty

Use the MPO/COG Demographic Mapping link above. Zoom in to your project area. On the right-hand side of the screen, under "Reporting," select "Custom Summary." Next, select "Corridor of Interest." Left-click to begin drawing. Draw a line through all census block groups 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 block groups 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.

24. 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 Before Project

Number of Travel Lanes After Project

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25. Please provide an estimated traffic volume (ADT) on the nearest parallel arterial.

ADT Estimate

Date Counted

Name of road the traffic count was taken from

3rd Avenue - 2,907 ADT and Lincoln Street - 5,245 ADT; Central Avenue - 13,807 ADT and Buckeye Road - 15,092 ADT; Central Avenue - 13,807 ADT and Watkins Street - 1,929 ADT; Central Avenue - 17,435 ADT and Pioneer Street - No counts of ADT; 7th Street - 26,468 ADT and Victor Street - 981 ADT; Central Avenue - 22537 ADT and Roeser Road - 5,836 ADT; 7th Street - 20,103 ADT and Roeser Road - 7,568 ADT; 7th Avenue - 21,167 ADT and Roeser Road - 3,034 ADT; Central Avenue - 22,538 ADT and Southern Avenue - 28,684 ADT; 7th Street - 21,550 ADT and Alta Vista Road - No counts of ADT; 7th Avenue - 21,167 ADT and Southern Avenue - 28,684 ADT; Central Avenue - 23,571 ADT and Jesse Owens Pkwy - No counts of ADT; Jesse Owens Pkwy - 39,106 ADT and Baseline Road - 2,580 ADT; 19th Avenue - 16,526 ADT and Vineyard Road - 2,157 ADT; 19th Avenue - 19273 ADT and Southern Avenue - 26,864 ADT; 15th Avenue - 3,209 ADT and Butler Drive - 1,304 ADT; 7th Street - 28,489 ADT and Northern Avenue - 35,463 ADT; Central Avenue - 13,283 ADT and Butler Drive - 460 ADT; 7th Avenue - 16,675 ADT and Glendale Avenue - 30,086 ADT; 7th Avenue - 17,334 ADT and Bethany Home Road - 29,427 ADT; 7th Avenue - 21,097 ADT and Missouri Avenue - 10,415 ADT; 7th Avenue - 27,550 ADT and Camelback Road - 30,701 ADT

Description of Methodology and Source used for the ADT Estimate

Average Daily Traffic (ADT) is calculated by first calibrating the traffic count by month/day to account for daily and seasonal fluctuations in traffic. ADT may not represent the actual count taken on a particular day but instead has been adjusted to represent anticipated traffic flow on an average day throughout the year. the daily factors are calculated by first averaging the bi-directional traffic volume totals for the 12 full weeks of each weekday. The factor is that average divided by the sum of each of the 12 instances of a weekday day.

26. 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.

There are no known cultural, historical, hazardous materials and/or other environmental issues with this bikeshare project.

27. 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

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PART B-DETAILED PROJECT DESCRIPTION

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

Right-of-Way issues can be avoided by following Bikeshare station siting guidelines that specify general requirements for the installation of the stations including:

- Place stations in well-lit area with good street lighting
- Avoid placing bikeshare racks next to fire hydrants or fire zones
- Avoid placing station under a tree to reduce cleaning requirements
- Avoid obstructing street signs with station
- Avoid placing stations adjacent to active curb cuts or driveways, or in commercial loading zones.
- Avoid placing stations on or next to utility manholes or other service points.
- Avoid obstructing pedestrian pathways and business entrances with station.

29. Please indicate whether all parcels for this project have been inventoried.

Yes No

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

<input type="checkbox"/> No Utility in or abutting the alignment	<input type="checkbox"/> Private Structures
<input type="checkbox"/> Canals & Drainage	Other:
<input type="checkbox"/> Power Lines & Cables	<input type="checkbox" value="NA"/> NA. Bikeshare station locations do not impact overhead and/or underground utilities
<input type="checkbox"/> Pipelines, Sewer and Water	

31. Please describe any utility conflicts that will need to be addressed.

Utility conflicts can be avoided by following Bikeshare station siting guidelines that specify general requirements for the installation of the stations including:

- Avoid placing stations on or next to utility manholes or other service points
- Provide proper setbacks from street lights, traffic signals, and other utility appurtenances
- Avoid placing stations next to fire hydrants.

32. Guidelines used to develop project: (Check all that apply)

<input checked="" type="checkbox"/> AASHTO Guide for Bicycle Facilities	Other:
<input checked="" 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"/> MAG Valley Path Brand & Wayfinding Signage Guidelines	
<input type="checkbox"/> NACTO Urban Bikeway Design Guide	
<input type="checkbox"/> RTPA Bus Stop Program and Standards	

33. Jurisdiction has the following policies for improved bicycle/shared use facilities:

With new development and capital improvement projects, bike lanes on arterial streets are:	<input type="checkbox" value="Required"/> Required
With new development and capital improvement projects, bike lanes on collector streets are:	<input type="checkbox" value="Recommended"/> Recommended
With pavement restoration or regular pavement maintenance on arterial streets, bike lanes are:	<input type="checkbox" value="Recommended"/> Recommended
With new development or during development retrofits, shared-use paths are:	<input type="checkbox" value="Recommended"/> Recommended
Bicycle program implemented, including bike education, safety events, and bike maps	<input type="checkbox" value="Yes"/> Yes
Complete Streets Policy	<input type="checkbox" value="Yes"/> Yes

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PART B-DETAILED PROJECT DESCRIPTION

34. The project is: (Check one)

- Identified in General Plan, council adopted policy, or Capital Improvements Program (provide source)
List:
City Council authorized the GRID bikeshare contract on June 5, 2013. The Grid Bikeshare program (Phase I) was launched on November 24, 2014.
- Consistent with general policy/practices, but not formally identified (provide source)
Explain:
Bikeshare is consistent with the "Complete Streets" ordinance adopted in June, 2015. Also, the Bikeshare program is included as part of the PlanPhoenix initiative adopted by City Council in 2014.
- Not addressed by jurisdiction's plans, policies, or practices
Explain:

35. How will the applicant measure the success of this project?

The City would measure the success of the program by utilizing performance metrics such as ridership, utilization, user satisfactions, projected motorist trip reductions. and other measures of success. This measure of success would also include the annual emission reductions with the system use.

36. 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?

Yes, the bicycle count metrics for the bikeshare program will include the total mileage, specific routes, and other general user profile information.

37. 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.

The bikeshare project includes an ongoing marketing and education component to address user safety and increase ridership. Bikeshare will be promoted at special events, sporting events, public meetings, etc. Also, there is an active bikeshare website that provides education and marketing information.

38. Will the project include wayfinding signage elements? If yes, please describe below.

The project will include the installation of the SoBi (Social Bicycles) Large Map Signs (58" x 30") at the bikeshare station locations that provide station location information. Also, the station locations can be easily accessed through the GRID bikeshare phone app for users.

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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.															
Sponsoring Agency:		City of Phoenix		Project Title:		City of Phoenix Bikeshare Expansion Project		Application Date:		9/18/2015					
Part	Item Description				Unit	Quan.	Unit Price	Total	Federally Eligible	Federal Funds (94.3%)	Local Funds (5.7%)	Note(s)			
A. Scoping (15% Preliminary Engineering Design)	1. SITE TOPOGRAPHIC SURVEY				LS	1		\$0.00	No	\$0.00	\$0.00				
	2. PROJECT ASSESSMENT REPORT or DETAILED WORKPLAN				LS	1		\$27,000.00	No	\$0.00	\$27,000.00				
	3. ENVIRONMENTAL DETERMINATION (Infrastructure projects, including technical supporting documents)				LS	1		\$0.00	No	\$0.00	\$0.00				
	4. HAZMAT ASSESSMENT				LS	1		\$0.00	No	\$0.00	\$0.00				
	Subtotal Scoping (Part A)							\$27,000.00		\$0.00	\$27,000.00				
B. Final Preliminary Engineering Design - Stages II, III, IV And PS&E	1. Plans, Special Provisions or Bid Manual, Cost Estimate & Schedules.				LS	1		\$0.00	No	\$0.00	\$0.00				
	2. GEOTECHNICAL INVESTIGATION and Materials & Pavement Design Report				LS	1		\$0.00	No	\$0.00	\$0.00				
	3. DRAINAGE REPORT				LS	1		\$0.00	No	\$0.00	\$0.00				
	4. SWPPP				LS	1		\$0.00	No	\$0.00	\$0.00				
	Subtotal PE (Part B)							\$0.00		\$0.00	\$0.00				
Subtotal Preliminary Engineering (Part A + Part B)							\$27,000.00		\$0.00	\$27,000.00					
C. Right-of-Way Acquisition	1. Right-of-Way Acquisition				LS	1		\$0.00	No	\$0.00	\$0.00				
Subtotal Right-of-Way Acquisition (Part C)							\$0.00		\$0.00	\$0.00					
D. Utility Relocation	1. Utility Relocation				LS	1		\$0.00	No	\$0.00	\$0.00				
Subtotal Utility Relocation (Part D)							\$0.00		\$0.00	\$0.00					
E. Construction Or Implementation [For Non-Infrastructure Projects (No Ground Disturbing Activities), Address Only Part 4]	1. Hardscape Construction			Installation Of SWPP Measures		LS	1		\$0.00	Yes	\$0.00	\$0.00			
				Site Preparation		LS	1		\$0.00	Yes	\$0.00	\$0.00			
				Demolition		Sawcut		LF	1		\$0.00	Yes	\$0.00	\$0.00	
						Remove Structures and Obstructions		LS	1		\$0.00	Yes	\$0.00	\$0.00	
						Remove Fencing		LF	1		\$0.00	Yes	\$0.00	\$0.00	
						Remove Structural Concrete		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Remove Asphaltic Concrete Pavement		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Remove Concrete Sidewalks, Slabs		CY	1		\$0.00	Yes	\$0.00	\$0.00	
				Hazmat Abatement		LS	1		\$0.00	Yes	\$0.00	\$0.00			
				Retaining Wall - Reinforced Concrete Cantilevered		SF	1		\$0.00	Yes	\$0.00	\$0.00			
				Earthwork		General Excavation		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Drainage Excavation		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Structural Excavation		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Structural Backfill		CY	1		\$0.00	Yes	\$0.00	\$0.00	
						Borrow (In Place)		CY	1		\$0.00	Yes	\$0.00	\$0.00	
				Curb & Gutter		LF	1		\$0.00	Yes	\$0.00	\$0.00			
				Aggregate Base		CY	1		\$0.00	Yes	\$0.00	\$0.00			
				Pathway Or Sidewalk Materials		Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Colored Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Stamped Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Precast Concrete Pavers		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Asphaltic Concrete		Ton	1		\$0.00	Yes	\$0.00	\$0.00	
						Polymer or Resin Stabilized Surface		SF	1		\$0.00	Yes	\$0.00	\$0.00	
				Crosswalk Enhancement		Concrete Pavers		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Stamped Asphalt		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Stamped Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
						Integral Color Concrete		SF	1		\$0.00	Yes	\$0.00	\$0.00	
				Pedestrian ADA Ramp		SF	1		\$0.00	Yes	\$0.00	\$0.00			
				Culvert Extensions		LF	1		\$0.00	Yes	\$0.00	\$0.00			
Pedestrian Lighting Including Conduit And Trenching		Each	1		\$0.00	Yes	\$0.00	\$0.00							
Handrail		Standard		LF	1		\$0.00	Yes	\$0.00	\$0.00					
		Decorative		LF	1		\$0.00	Yes	\$0.00	\$0.00					
Subtotal Hardscape Construction							\$0.00		\$0.00	\$0.00					

Phoenix: City of Phoenix Bikeshare Expansion Project (2020)

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.													
Sponsoring Agency:		City of Phoenix		Project Title:		City of Phoenix Bikeshare Expansion Project		Application Date:		9/18/2015			
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	1		\$0.00	Yes	\$0.00	\$0.00			
		Trees (15 Gallon Size)		Each	1		\$0.00	Yes	\$0.00	\$0.00			
		Trees (5 Gallon Size)		Each	1		\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (5 Gallon Size)		Each	1		\$0.00	Yes	\$0.00	\$0.00			
		Shrubs (1 Gallon Size)		Each	1		\$0.00	Yes	\$0.00	\$0.00			
		Cactus (5 Gallon Size)		Each	1		\$0.00	Yes	\$0.00	\$0.00			
		Mulch		Decomposed Granite		CY	1		\$0	Yes	\$0	\$0	
				Organic		CY	1		\$0	Yes	\$0	\$0	
				Topsoil		CY	1		\$0	Yes	\$0	\$0	
				Seeding		Acre	1		\$0	Yes	\$0	\$0	
				Turf Sod		SY	1		\$0	Yes	\$0	\$0	
				Boulders		Each	1		\$0	Yes	\$0	\$0	
		Irrigation System		Drip		SF	1		\$0	Yes	\$0	\$0	
				Turf		SF	1		\$0	Yes	\$0	\$0	
		Sleeving For Irrigation System		Directional Bore		LF	1		\$0	Yes	\$0	\$0	
	Cut and Patch			LF	1		\$0	Yes	\$0	\$0			
			Landscape Header Curb		LF	1		\$0	Yes	\$0	\$0		
			Landscape Establishment		LS	1		\$0	Yes	\$0	\$0		
			Subtotal Landscaping & Irrigation Items					\$0		\$0	\$0		
	3. Site Furnishings		Benches		Each	1		\$0	Yes	\$0	\$0		
			Seatwalls		LF	1		\$0	Yes	\$0	\$0		
			Bike Racks		Each	1		\$0	Yes	\$0	\$0		
			Trash Receptacles		Each	1		\$0	Yes	\$0	\$0		
			Drinking Fountains		Each	1		\$0	Yes	\$0	\$0		
			Signage (Standard Traffic Control)		Each	1		\$0	Yes	\$0	\$0		
			Signage (Wayfinding)		Each	1		\$0	Yes	\$0	\$0		
			Tree Grates		Each	1		\$0	Yes	\$0	\$0		
			Subtotal Site Furnishings					\$0		\$0	\$0		
	4. Other Construction Items. Also, Itemized Line Items For Non-Infrastructure Projects. (Insert Additional Rows If Necessary)		Bicycle and Pedestrian Counter		Each	1		\$0	Yes	\$0	\$0		
			Bikeshare Bicycles (incl. assembly, shipping, parts kit)			250	\$2,050	\$512,500	Yes	\$483,288	\$29,213		
			Bikeshare Kiosks (incl. Site prep, base plate, shipping, system map)			360	\$754	\$271,400	Yes	\$255,931	\$15,470		
			Bikeshare Station Large Map Signs/Base			13	\$3,465	\$45,040	Yes	\$42,473	\$2,567		
			Solar Bikeshare Payment Kiosk (incl. base plate, shipping, map, assembly)			10	\$14,500	\$145,000	Yes	\$136,735	\$8,265		
						1		\$0	Yes	\$0	\$0		
						1		\$0	Yes	\$0	\$0		
						1		\$0	Yes	\$0	\$0		
						1		\$0	Yes	\$0	\$0		
						1		\$0	Yes	\$0	\$0		
			Subtotal Other Construction					\$973,940		\$918,426	\$55,515		
	5. Mobilization And Administration Costs		Contractor Mobilization		LS	1		\$0	No	\$0	\$0		
			Traffic Control		LS	1		\$0	Yes	\$0	\$0		
			Construction Survey & Layout		LS	1		\$0	Yes	\$0	\$0		
			Construction Contingencies		LS	1		\$0	Yes	\$0	\$0		
			Construction Administration		LS	1		\$0	Yes	\$0	\$0		
			Subtotal Mobilization & Administration Costs					\$0		\$0	\$0		
		Subtotal Construction Or Implementation Cost (Part E)					\$973,940		\$918,426	\$55,515			
		F. Total Scoping, PE, Right-of-Way Acquisition, Utility Relocation, and Construction (Part A, B, C, D, and E)					\$1,000,940		\$918,426	\$82,515			
		G. Adot Fee Review Fee - \$10,000 for Certified Accepted agencies, otherwise \$30,0000					\$10,000	No	\$0	\$10,000			
		H. Total Project Cost Including ADOT Fees (Part F + Part G)					\$1,010,940		\$918,426	\$92,515			

Phoenix: City of Phoenix Bikeshare Expansion Project (2020)

PART E - TOTAL PROJECT SCHEDULE AND BUDGET

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 24-27 in Part B.

Cost Estimate for the Project Including ALL Segments	Cost	Additional Notes (if needed)
1. ADOT Fee	\$10,000	
2. Design	\$27,000	
3. Right of way	\$0	
4. Utilities	\$0	
5. Construction	\$973,940	
6. Contingency	\$0	No more than 20% of Construction Cost
7. Total Cost	\$1,010,940	

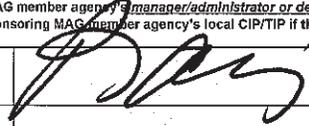
8. Will the agency maintain the improvement after it is completed?

9. Expected Annual Maintenance Cost

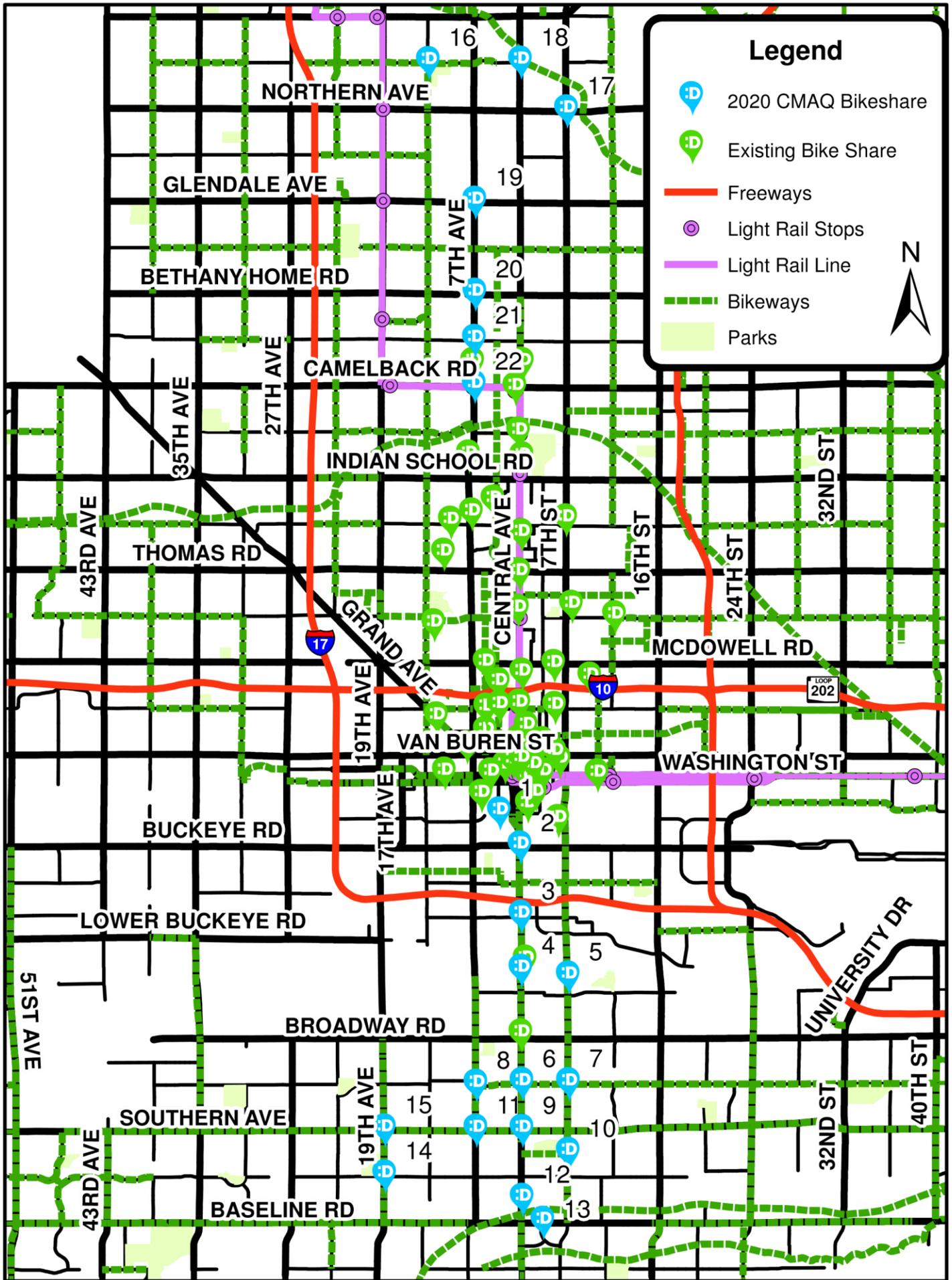
10. Identify Source of Maintenance Funds

Requested MAG Programming	Year	Short Work Description (E.g. Construct Multiuse Path)	Local Funding Source	Local Cost	Federal Cost	Total Cost	Local Share
11. Design (Optional)	2019	Bikeshare Station Siting		\$27,000	Not Available	\$27,000	100.0%
12. Right of way (Optional)				\$0	Not Available	\$0	
13. Utilities (Optional)				\$0	Not Available	\$0	
14. Other (Optional)		ADOT Fee		\$10,000	Not Available	\$10,000	100.0%
15. Construction	2020	Bikeshare Equipment (Bikes, Racks, Kiosks, Map Signs)		\$55,515	\$918,426	\$973,940	5.7%
16. Total Costs				\$92,515	\$918,426	\$1,010,940	9.2%

Checklist	
This checklist is included to facilitate applicant review and verification that all required fields in the form have been completed.	
COVER SHEET	Complete?
Cover Sheet is completely filled out	✓
PART A - Contacts and Project Description Fields	Complete?
Contact Information, fields 1 – 5 are complete	✓
Project Description, fields 6 – 8 are complete	✓
PART B - Project Description	Complete?
Fields 1 - 14 (Project Description) are complete	✓
Fields 15 - 17 (Transit) are complete	✓
Fields 18 – 22 (Attractors and Demographics) are complete	✓
Fields 23 – 30 (Traffic, Environmental, ROW, and Utilities) are complete	✓
Fields 31 – 33 (Guidelines, Policies, and Plans) are complete	✓
Fields 34 – 37 (Maintenance, Performance Measurement, and Wayfinding) are complete	✓
PART C - Required Attachments	Complete?
Field 1 - Map showing the general location of the proposed project in relation to the region, including a north arrow provided in the printed application and the PDF application.	✓
Field 2 - Map with streets labeled showing the detailed location(s) of the proposed project, including a north arrow provided in the printed application and the PDF application.	✓
Field 3 - Up to four (4) photos of existing conditions are provided in the printed application and the PDF application (two 4x6 per page).	✓
Field 4 - Simple diagram of the current typical cross section of the segment, that shows the right of way limits, widths, sidewalks and shoulders (if any), and the lanes of travel in the printed application and the PDF application.	2/P
(OPTIONAL) - Up to two (2) photos/renderings of the completed project are provided in the printed application and the PDF application.	
(OPTIONAL) - Up to three (3) letters of support for the project are provided in the printed application and the PDF application.	
(OPTIONAL) - GIS coverage (shapefile or geodatabase) is provided on the CD with the application.	
PART D - Cost Estimate Worksheet	Complete?
Sponsoring Agency, Project Title, and Application Date are complete	✓
Part A - Scoping is complete	✓
Part B - Final Preliminary Engineering Design is complete	✓
Part C - Right-of-Way Acquisition is complete	✓
Part D - Utility Relocation is complete	✓
Part E - Construction or Implementation is complete	✓
Parts F, G, and H - Costs are complete and accurate	✓
PART E - Total Project Schedule and Budget Including All Segment Fields	Complete?
Fields 1 – 7 are complete and costs are accurate	✓
Field 8 - 10 are complete	✓
Fields 11 – 15 Years are complete	✓
Fields 11 – 15 Local Funding Sources are complete	✓
Fields 11 – 15 Local Costs are complete and accurate	✓
Field 11 - 15 Federal Costs are complete and accurate	✓
Field 16 Total Costs are complete and accurate	✓
PART F - Signature and Checklist	Complete?
Entire checklist is completed.	✓
Form is signed by MAG member agency's manager/administrator or designated representative.	✓
Name, title and date fields under the signature are completed.	✓

SIGNATURE(S):	
As the MAG member agency's <u>manager/administrator or designated representative</u> , 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:	Name: Ray DovaIna, P.E.
Title:	Title: Street Transportation Director
Date:	Date: September 16, 2015

2020 Regional Bike Share



CMAQ 2020 Application
Bikeshare Station Sites

No.	Location	Site Attraction
1	3rd Avenue & Lincoln Street	Metro Stop & APS Office
2	Central Avenue & Buckeye Road	Metro Stop & Lowell School
3	Central Avenue & Watkins Street	Rio Saldo Habitat Restoration Center
4	Central Avenue & Pioneer Street	Nina Mason Pullman Rio Salido Audobon Center
5	7th Street & Victory Street	UTC Aerospace System & Metro Stop
6	Central Avenue & Roeser Road	Shopping Center & Metro Stop
7	7th Street & Roeser Road	South Mountain High School & Metro Stop
8	7th Avenue & Roeser Road	Memo Park & Metro Stop
9	Central Avenue & Southern Avenue	South Plaza Shopping Center & Metro Stop
10	7th Street & Alta Vista Road	El Reposo Park & Metro Stop
11	7th Avenue & Southern Avenue	Southern Plaza (Shopping) & Metro Stop
12	Central Avenue & Jesse Owens Pkwy	Western Canal, Food City Mall, Shopping
13	Jesse Owens Pkwy & Baseline Road	Western Canal, Metro Stop, Shopping
14	19th Avenue & Vineyard Road	El Prado Park & Metro Stop
15	19th Avenue & Southern Avenue	Shopping Center & Metro Stop
16	15th Avenue & Butler Drive	Royal Palm Park
17	7th Street & Northern Avenue	Arizona Canal, Royal Palo Verdo Shopping Center, Metro Stops
18	Central Avenue & Butler Drive	Arizona Canal, Bike Shop, Metro Stops
19	7th Avenue & Glendale Avenue	Metro Stop, Residential, Churches
20	7th Avenue & Bethany Home Road	Churches, Metro Stop, Schools
21	7th Avenue & Missouri Avenue	Restraurants, Metro Stop, Office, Residential
22	7th Avenue & Camelback Road	Camelback Village Square, Metro Stop, Fitness Center







