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Introduction

The city of Phoenix for the past 30 years has been evolving in making a difference in transportation options. Phoenix was fortunate to embark in a comprehensive bicycle network plan in the 1980s and 1990s that accomplished a significant amount of pedestrian and bicycle transportation network in cooperation with the regional partners to take advantage of federal and local funding to implement projects. Up to this point, the existing bicycle network consists of 778 miles of bicycle facilities that includes 542 miles of bicycle lanes, 161 miles of bicycle routes, 43 miles of paved shared use paths, and 32 miles of unpaved multi-use paths. The existing network is shown in Map #1 – Existing Bike Facilities. This network will continue to grow and expand with the work efforts and change in City strategies.

In the past three years, there has been a significant change in policy direction for the City of Phoenix's transportation network. For the City of Phoenix, the primary focus of street design will include the safety and comfort of all users of the public right-of-way (ROW). Bicycle facilities are one of the components of the transportation system that provides choices for residents, connects people to places and other transportation options, and promotes a sustainable transportation option.

The work efforts outlined below show both a policy and funding shift to integrate bicycle facilities into decision making at a variety of levels through many Street Transportation programs.

On July 2, 2014, City of Phoenix council members moved to adopt two Complete Streets ordinances, aimed at changing the way that streets are developed, designed, and constructed. Complete Streets are designed to encourage and facilitate active transportation and public health, and accommodate people of all ages and abilities, including pedestrians, wheelchair users, bicyclists, users of public transportation, motorists, emergency responders, and



freight movers. In addition, on June 28, 2017 City Council adopted the Complete Streets Policy to take the next step in implementing the initiative.

 City Council adopted the Comprehensive Bicycle Master Plan in November 2014, which sets forth a blueprint for expanding bicycle facilities throughout the city to enhance bicycling as a



safe and healthy transportation choice for our community. Through the city's public budget hearings process, two million dollars is set-aside annually in the Street Transportation Department's Capital Improvement Program to complete the thirty-nine identified projects.

• The Grid Bike Share Program was launched in November 2014 with private funding. The program started with 250 bicycles at 24 stations. In 2015, the City Council approved the purchase of 250 bicycle racks for the program using funds from the Street Transportation Department's non-

general fund reserve account for citywide bicycling improvements. To further encourage bicycling as a convenient and affordable mode of transportation, the Street Transportation Department works with its vendor, Cyclehop, LLC, to operate and expand the City's GRID Bike Share program

As of Dec. 31, 2016, the Grid Bike Share system has grown to 49 stations with the capacity for 500 bicycles. The system has three planned expansions in the next five years.

• The Phoenix City Council approved an updated General Plan on March 4, 2015, and Phoenix voters approved the updated General Plan on the August 25, 2015 ballot. The City's General Plan 2015 outlines the blueprint of 'creating a Connected Oasis.' The Vision of the Connected Oasis



aims to ultimately enhance the quality of life for all city of Phoenix residents. It is framed by residents' enhanced levels of prosperity, improved health and a thriving natural environment (Prosperity, Health, and Environment). The City's General Plan identifies five core values for achieving the vision. The five core values provide the framework for the goals and initiatives of the updated General Plan: 1) celebrate our diverse communities and neighborhoods, 2) strengthen our local economy, 3) connect people and places, 4) build the sustainable desert city, and 5) create an even more vibrant downtown.

• In 2015, the City completed the Reinvent PHX planning effort that focuses on creating action plans for five distinct areas in the City. Reinvent PHX was a collaborative partnership between the City of Phoenix, the U.S. Department of Housing and Urban Development, Arizona State University, St. Luke's Health Initiatives (now Vitalyst Health Foundation) and numerous other organizations committed to developing walkable, opportunity-rich communities connected to light rail. Reinvent PHX created action plans for districts along the light rail system. The plans establish a community-based vision for the future and identify investment strategies to improve

the quality of life for all residents. This process establishes a new, transit-oriented model for urban planning and development along the city's light rail system.



On August 25, 2015, Phoenix voters approved Proposition 104 or Transportation 2050 (T2050), and made a strong statement about the importance of expanding investment in Phoenix for bus service, light rail construction and street improvements. The previous transit plan, known as T2000, was a voter-approved tax that primarily funded transit service in Phoenix.

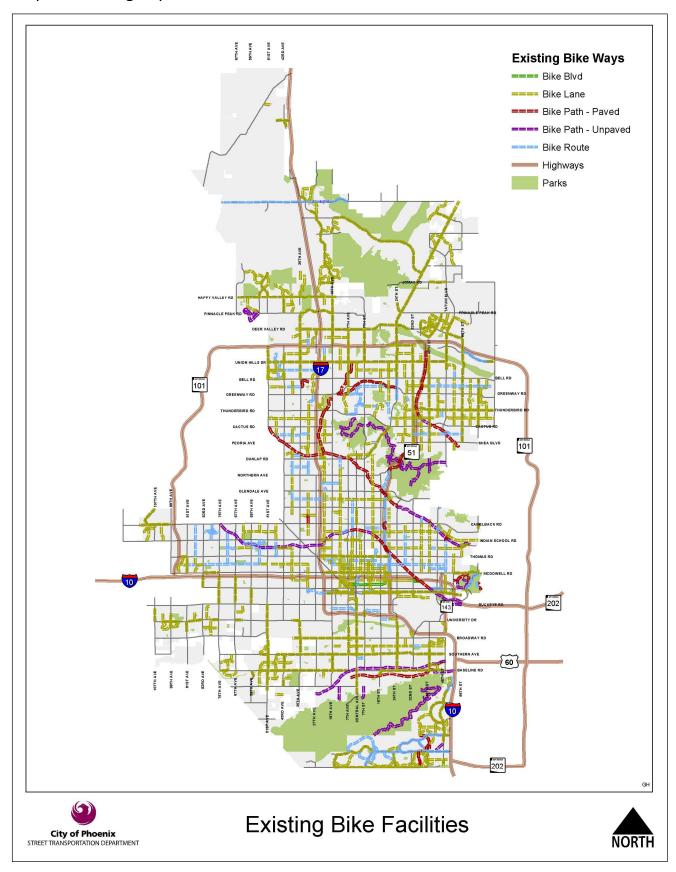


Now broader and more comprehensive, the T2050 plan places additional emphasis on street needs including; street maintenance, new pavement, bike lanes, sidewalks and ADA accessibility which will all compliment the increase in transit services.

This significant commitment to construct new bicycle and pedestrian facilities in the T2050 Plan, 135 miles of new sidewalks and 1,080 miles of new bike lanes led to the creation of a separate T2050 Mobility Improvements Program. The T2050 Mobility Improvements Program was established to implement additional projects that increase Americans with Disabilities Act (ADA) accessibility and mobility through construction of new sidewalks and multi-modal connectivity through provision of new bicycle facilities.

The result of planning efforts, policy direction, and investments have led the Street Transportation Department to establish a Bicycle Project Team consisting of over a dozen staff members to plan, design, manage and implement projects. Team members from all Street Transportation divisions meet regularly to discuss project funding, priorities, schedules, and other bicycle-related efforts. Project planning, design, and construction work has been initiated along several corridors slated for bikeway improvements citywide and are documented in this Draft Five-Year Bicycle Program – *Shifting Gears*.

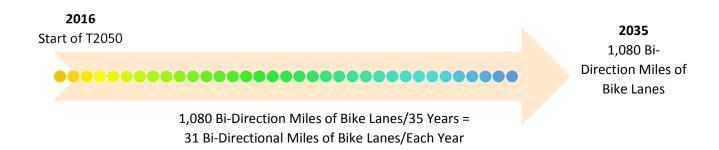
Map #1 – Existing Bicycle Facilities



Section I. Overview

The Five-Year Bicycle Program - *Shifting Gears* (Program) is a compilation of work efforts that will be initiated by the City of Phoenix Street Transportation Department to compliment the 2014 City of Phoenix Bicycle Master Plan. It will also be used to complete additional bicycle facilities that will help meet the goal of Proposition 104 by completing 1,080 bi-directional miles of bicycle lanes by 2050.

To meet the goal of installing 1,080 bi-direction miles of new bicycle lanes over a 35-years, 31 bi-directional miles of bicycle lanes per year. In addition to bicycle lanes, the City is committed to complete holistic improvements as appropriate that include bicycle detection, multi-use paths, safe crossings, protected bicycle lanes, and other bicycle facilities that are explained in Section II.



This Program reports on the implementation and installation of the City's bicycle facilities. This effort comes from six distinct, yet collaborative work efforts completed by actions from different divisions and sections of the Street Transportation Department:

- 1. Neighborhood Traffic Management (NTMT)
- 2. Pavement Maintenance Program
- 3. Capital Improvement Program Projects
- 4. Developer & Partner Agency Projects
- 5. Bicycle Master Plan
- 6. Mobility Program

As projects complete the design process and bicycle facilities are installed, this report may have inadvertently missed documenting a new bicycle facility. This is not intentional, and the Street Transportation Department will update its project tracking system in the next year to help in the quality control efforts of data collection.

Section II. Bicycle Facilities

While the goal of T2050 measures bicycle lane miles, the bicycle network is and will be comprised of a variety of different treatments and facilities. This Program provides information about the different facilities that have been completed, and are planned to be implemented in the future. While there are dozens of different types of bicycle facilities that are available to install, the city has not installed every type of facility just yet, but uses these options to find the best fit. Table 1 explains the different type of facilities and provides pictures of the possibilities.













| | Table 1 - Bicycle Facility List | | | | | |
|---|--|--|--|--|--|--|
| Bike Facility Type | <u>Description</u> | | | | | |
| Bike Lane | A Bike Lane is defined as a portion of the roadway that has been designated by striping, signage, and pavement markings for the preferential or exclusive use of bicyclists. | | | | | |
| Extend Bike Lane to Intersection | A continuation of a bike lane that has previously terminated over 50 feet before the intersection. | | | | | |
| Through Bike lanes with Intersection Road Diet | A continuation of a bike lane to the intersection that includes a lane reduction on approaching sides | | | | | |
| Buffered Bike Lane | Buffered bike lanes are conventional bicycle lanes paired with a designated buffer space separating the bicycle lane from the adjacent motor vehicle travel lane and/or parking lane. | | | | | |
| 'Protected' Bike Lanes/One -Way Cycle Track | Protected bike lanes are at street level and use a variety of methods for physical distinction beyond paint from passing traffic. A protected bike lane may be combined with a parking lane or other barriers (flexible delineators, turtle bumps, oblong bumps, pre-cast curb, planters, bollards, medians, etc.) between the bicycle lane and the motor vehicle travel lane. | | | | | |

| CONTINUED Table 1 - Bicycle Facility List | | | | | | | |
|--|--|--|--|--|--|--|--|
| Bike Facility Type | <u>Description</u> | | | | | | |
| Two-Way Protected Bike Lanes/ Two-Way Cycle Track | Two-way protected bike lanes are at street level and use a variety of methods for physical protection from passing traffic. A two-way protected bike lane may be combined with a parking lane or other barriers (flexible delineators, turtle bumps, oblong bumps, pre-cast curb, planters, bollards, medians, etc.) between the bicycle lane and the motor vehicle travel lane. Two-way protected bike lanes allow bicycle movement in both directions on one side of the road. | | | | | | |
| Contra-Flow Bike Lane | Contra-flow bicycle lanes are designed to allow bicyclists to ride in the opposite direction of motor vehicle traffic. | | | | | | |
| Left-Side Bike Lane | Left-side bike lanes are conventional bike lanes placed on the left side of one-way streets or two-way median divided streets. | | | | | | |
| Raised Cycle Track | Raised cycle tracks are bicycle facilities that are vertically separated from motor vehicle traffic. | | | | | | |
| Bike Box | A bike box is a designated area at the head of a traffic lane at a signalized intersection that provides bicyclists with a safe and visible way to get ahead of queuing traffic during the red signal phase. | | | | | | |
| Intersection Crossing Markings | Intersection crossing markings indicate the intended path of bicyclists. | | | | | | |
| Two-Stage Turn Que Boxes | Two-stage turn queue boxes offer bicyclists a safe way to make left turns at multi-lane signalized intersections from a right-side cycle track or bike lane, or right turns from a left side cycle track or bike lane. | | | | | | |
| Median Refuge Island | Median refuge islands are protected spaces placed in the center of the street to facilitate bicycle and pedestrian crossings. | | | | | | |
| Bicycle Detection | Bicycle detection is used at actuated signals to alert the signal controller of bicycle crossing demand on an approach. Bicycle detection occurs either using push-buttons or by automated means (e.g., in-pavement loops, video, microwave, etc.). | | | | | | |
| Bicycle HAWK | A hybrid beacon, also known as a High-intensity Activated Crosswalk (HAWK), consists of a signal-head with two red lenses over a single yellow lens on the major street, and pedestrian and/or bicycle signal heads for the minor street. | | | | | | |
| Through Bike lanes | A through bike lane is present in the approach to a part of the road with a turn bay to the right or left. | | | | | | |
| Through Bike lanes with Intersection Road Diet | A through bike lane is added at near side and far side of the intersection by removing add/drop lanes. | | | | | | |
| Combined Bike Lane / Turn Lane | A combined bike lane/turn lane places a suggested bike lane within a portion of a right turn or left turn only lane. Shared lane markings are typically installed and bicyclists move forward instead of turning. | | | | | | |

| | CONTINUED Table 1 - Bicycle Facility List | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Bike Facility Type | <u>Description</u> | | | | | | | |
| Cycle Track Intersection Approach | An approach to an intersection from a cycle track that is designed to reduce turn conflicts for bicyclists and/or to provide connections to intersecting bicycle facility types. | | | | | | | |
| Bicycle Boulevard | A bike route which has a combination of shared lane markings, directional markings for wayfinding and traffic control devices that prioritize travel by bicycle. | | | | | | | |
| Shared Lane Marking (Sharrow) | A marking used to indicate a shared lane environment for bicycles and automobiles typically installed in a lane that is 14' wide or less. | | | | | | | |
| Green Colored Pavement | Colored pavement within a bicycle lane increases the visibility of the facility, identifies potential areas of conflict, and reinforces priority to bicyclists in conflict areas and in areas with pressure for illegal parking. | | | | | | | |
| Bike Route | A bike route is an undefined portion of roadway without pavement markings but may have a sign or stripe to promote use by bicyclists. | | | | | | | |
| Shared Use Path | A paved surface for people walking, riding bicycles, riding horses and other manually operated equipment. | | | | | | | |
| Multi-Use Trail | An UNPAVED surface for people walking, riding bicycles, riding horses and other manually operated equipment, typically built from stabilized decomposed granite. | | | | | | | |
| Bridge / Underpass | A crossing of a heavily traveled thoroughfare or barrier that is not at grade. | | | | | | | |
| Shoulder | The area to the right side of a road or street that is usually paved but is not typically driven upon by powered vehicles. It is sometimes called a breakdown lane. | | | | | | | |

Context Sensitive Solutions

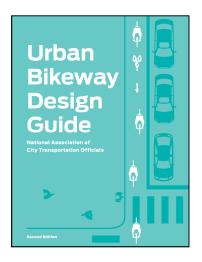


When initiating projects, the Street Transportation department asks, 'is there an opportunity for this street/road to become more of a complete street and include bicycle infrastructure?'. The City has five classifications of roadways: major arterials, arterials, collectors, minor collectors, and local/neighborhood streets. These streets and various elements (sidewalk, bike lanes, street lights, landscaping, etc.) range in width from 28 feet to 140 feet. The City also has numerous data sets ranging from transit ridership, crash information, traffic signal timing,

pavement condition, and many others that are brought into the project initiation process. The City uses public involvement through a variety of facets, to gain input from residents, employers, and the traveling public when developing projects. Additionally, the adjacent land uses and the placement of structures is the other integral component that is evaluated for multi-use facilities. Other considerations include a reduction in speeds, narrowing of traffic lanes, signage, and protected crossings. With this said, the projects that are moved forward to construction are based on the variety of tools the Department uses to develop a context sensitive solution.

NACTO

Related to context sensitive solutions, the City of Phoenix has been a member of the National Association of City Transportation Officials (NACTO) for nearly 10 years. NACTO's mission "is to build cities as places for people with safe, sustainable, accessible and equitable transportation choices that support a strong economy and vibrant quality of life." Since inception, NACTO has released six guidebooks: Urban Street Design Guide, Global Street Design Guide, Urban Bikeway Design Guide, Transit Street Design Guide, Urban Street Stormwater Guide, and the Bike Share Station Siting Guide. The designs presented in these guidebooks are fresh approaches to maximize the right of way for inclusion of all users of a street: transit, pedestrians, bicyclists, and vehicles. The City of Phoenix and 49 other



cities (Member and Affiliate Member Cities) have embraced the different ideas for use of the roadway. City staff and consultants use these guidelines when reviewing and developing project concepts and designs.

Protected Bicycle Lanes

As corridors and streets are identified for bicycle improvements, they are evaluated to determine



City of Chicago, Kinzie Street

what type of facility makes the most sense for all users of the street. When a street is identified for a bicycle lane, or there is an existing bicycle lane, the City investigates if a buffered (striped spacing) bicycle lane and/or a protected facility can be provided as well. The City is now including buffered bike lanes in various future projects such as the 3rd Street and the Van Buren Street improvements. Consideration on when and how to include protection into bicycle lanes in order impacts to street maintenance and vehicle access to adjacent land uses.

Tables 4 and Appendices A - F identify the specific projects and miles of buffered and protected bicycle lanes to be completed in the next five years. The City is proposing a series of specific protected areas for bicyclists in key areas of conflict on: Oak Street, 3rd Avenue, 5th Avenue, 3rd Street, Colter/SR-51 intersection area, Sweetwater Road, 24th Street, and 20th Street.

The Street Transportation Department is using an evaluation tool to assess more locations for the possibility of protection. The protected bicycle lane tool evaluates nine factors: speed, average daily traffic (ADT), street classification, driveway spacing, number of intersections in a mile, buffer conditions, on-street parking, transit stops, and bicycle crashes in a three-year period to see if a location is a good candidate for protected bike lanes. This effort is underway (as of August 2017,) and additional locations for protection will be included in future drafts. To identify additional locations, the bicycle team will:

- Review the identified bicycle lanes and buffered bicycle lanes in 2018 2021 pavement management plan
- Review other identified bicycle lanes and buffered bicycle lanes in the five-year bicycle program
- Assess new locations based on evaluation factors

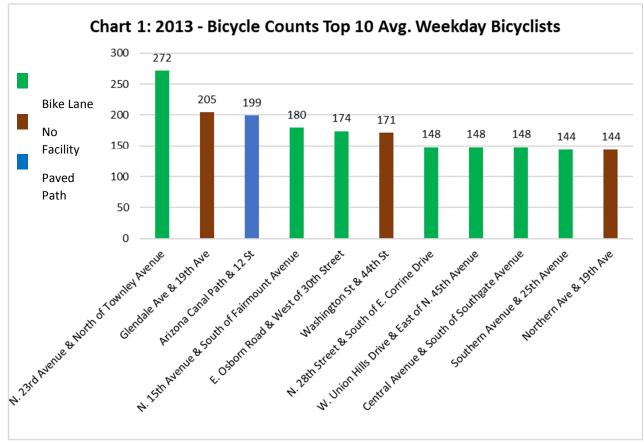
Section III. Assessing Information for Bicycle Needs

The City uses a variety of tools to assess and prioritize corridors, streets, neighborhoods, and crossings for bicycle improvements. The Department is focusing on implementing the corridors outlined in the Bicycle Master Plan, while using additional opportunities through other work efforts (explained in Section IV) to complete additional bicycle facilities, and utilize the collectors, minor collectors, canals, neighborhood streets, and some arterials to create a low stress network. In addition to using the existing plans and programs in place, the department uses information from count data, crash information, and a gap analysis to identify future projects.

Bicycle Counts

The City of Phoenix completed bicycle counts at 55 locations in 2013, and an additional 28 in 2016. Unfortunately, the City's data collection efforts in 2016 provided inconclusive data, which can't be used. Additionally, in 2013, the Maricopa Association of Governments (MAG) launched their regionwide *Bicycles Count* work effort. MAG purchased bicycle counters, and selected 42 locations regionwide, 15 in Phoenix, to count bicycles. This work effort began in 2013 and continued through 2016. Map #2 reflects the 2013 bicycle count data from both the City and MAG efforts.

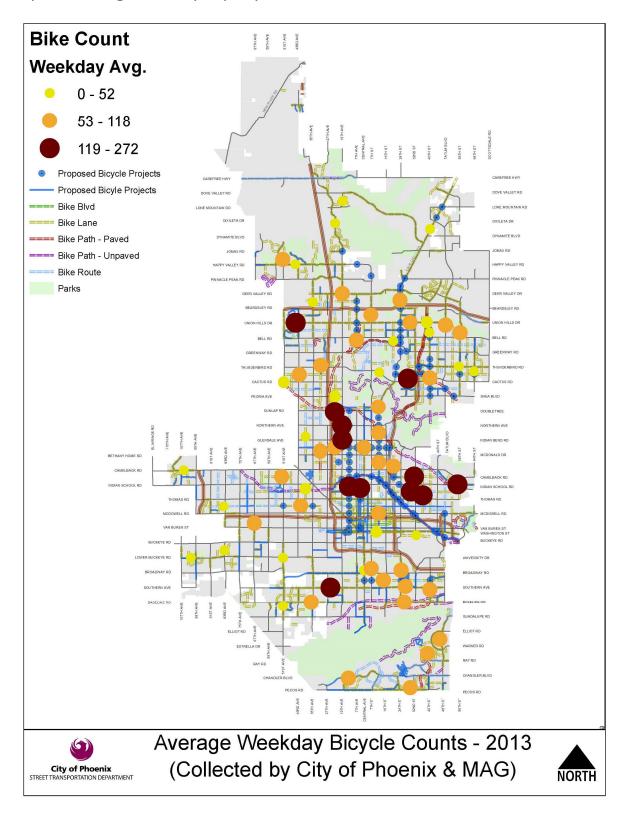
In 2013, both MAG and the City collected bicycle count data at 70 locations. Chart 1 highlights the top 10 locations that have the highest bicycle riders during the week. Weekend trips look similar in ridership, with half of the locations being in the top 10 locations for weekend trips. The colors in



the charts delineate if there is a bike lane, no facility or a paved path on the canal.

Map #2 reflects the 2013 bicycle count data from both the City and MAG efforts.

Map #2 - Average Weekday Day Bicycle Counts - 2013

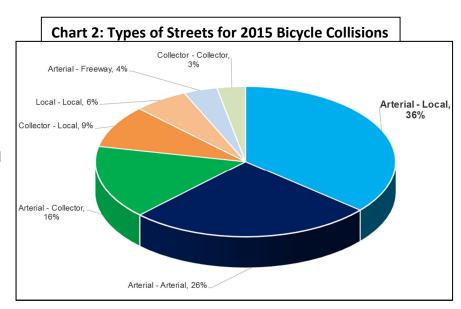


Bicycle Collision Information

The most current set of data the City has available is 2015. In general, data lags between 1-2 years behind the current year due to the needed evaluation and data control. For a more detailed report, please visit the Department's website at: https://www.phoenix.gov/streets/safety-topics.

The information below provides a 'facts-at-a-glance' highlighting the summary information about Bicycle Collision that occurred in 2015:

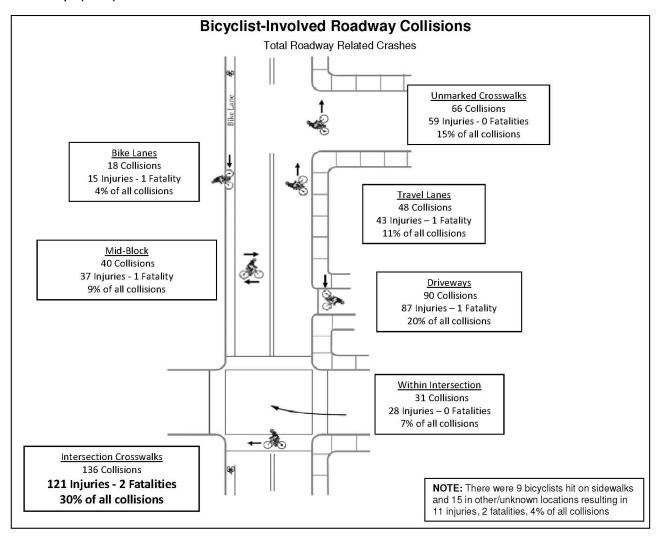
- Bicycle collisions are on a four-year decreasing trend.
- Nearly 8 out of 10 collisions occurred at or within 150 feet of an intersection.
- More than 8 out of 10 non-intersection-related collisions occurred on an arterial street.
- Many collisions occurred while the motorist was making a right-hand turn.
- Only 7% of bicyclists involved in a collision are not injured.
- 453
 collisions
 409
 injuries
 9
 deaths
- Bicycle collisions in 2015 accounted for nearly 2% of all traffic collisions, 3% of all injuries, and 5% of all fatalities.
- 15% of bicyclist collisions were children below the age of 18 (1% higher than 2014).
- 30% of all collisions occurred in an intersection crosswalk and 20% at driveways.
- 46 school-age bicyclists (5 to 18 years old) were hit during school hours (Monday Friday,
 7 AM 4 PM).
- Only 25% of all bicycle collisions occurred at night, including twilight, but 67% of all bicyclist fatalities occurred at night.
- Bicycle collisions occurred most frequently between the hours of 3 PM and 6 PM and on Thursdays.
- August had the highest number of bicycle collisions (44).



45% of all bicycle collisions occurred at uncontrolled locations.

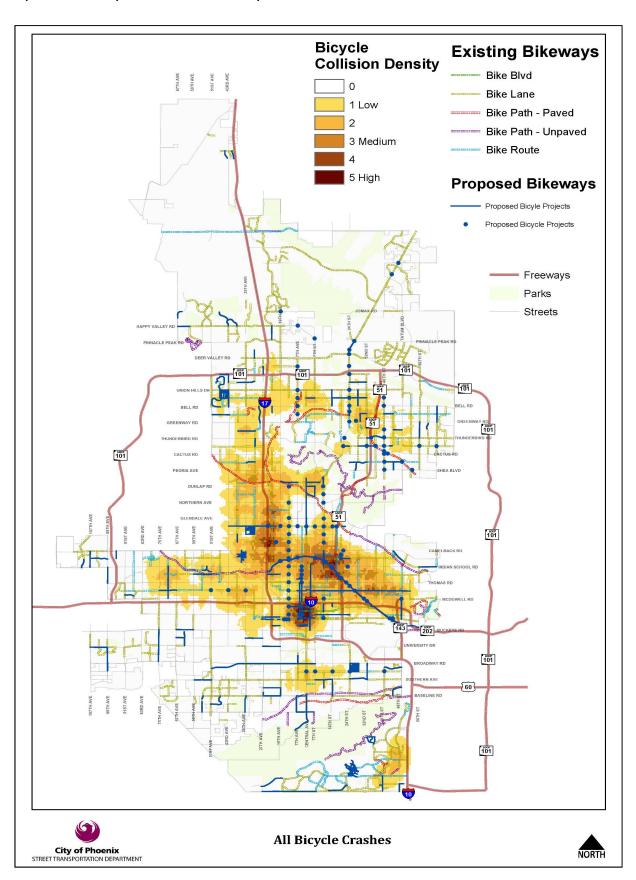
- There were 70 hit and run collisions involving bicycles.
- Chart 2 shows information about where the bicyclist involved collisions occur by street classification. Over half of the collisions occur where arterial and arterials (26%), and arterial to local street (36%) connect.

The infographic below depicts the location, amount, and severity of bicyclist-involved roadway collisions for 2015. About half of all bicycle collisions occur at intersection crosswalks (30%) and at driveways (20%).



Map #3 is a 'heat' map that shows the location of bicycle collisions over a 5-year period (2011 – 2015), the existing bikeways, and the bike facilities proposed in the next 5 years.

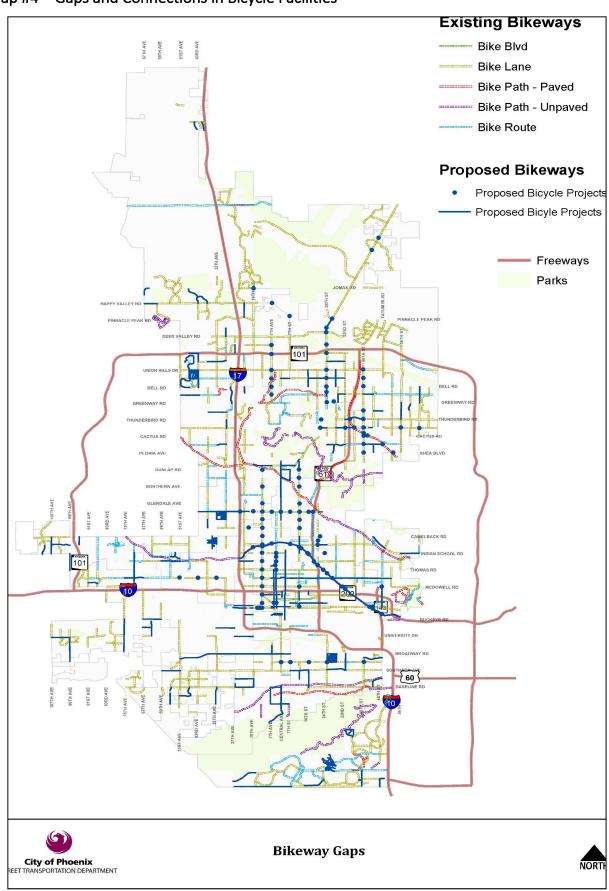
Map #3 – Density and Location of Bicycle Collisions from 2011 to 2015



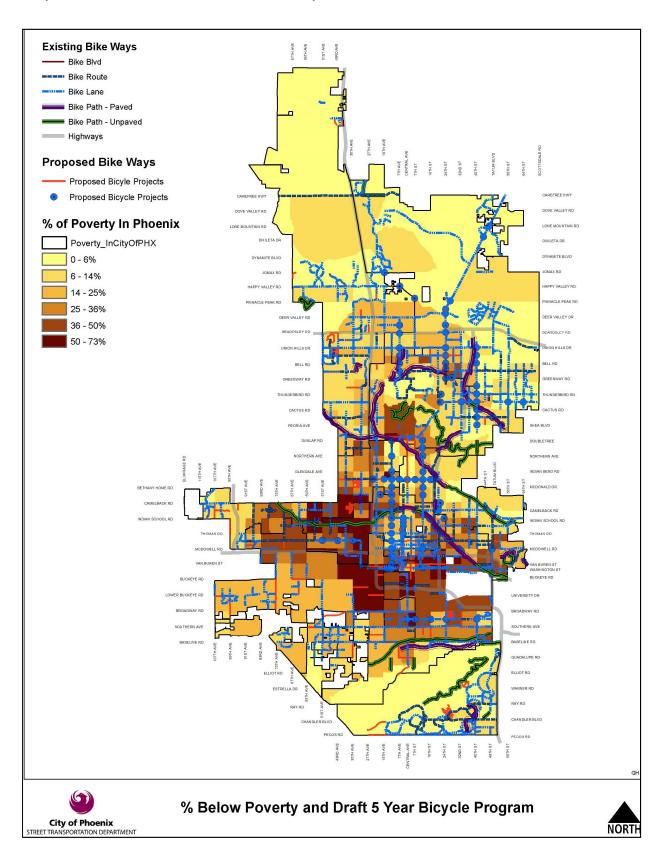
Reviewing Poverty and Gaps in the System

Two other considerations of where to install bicycle facilities is assessing gaps in the system and reviewing information such as where people in poverty live in the City. Map #4 outlines the current and proposed bicycle facilities and removes the street layer of the map. This exercise shows connections and disconnections in the bicycle system. Map #5 shows the different percentage of households in poverty (by Census blocks), the existing bicycle network, and the proposed bicycle facilities in the next five years.

Map #4 – Gaps and Connections in Bicycle Facilities



Map #5 – Percent of Households in Poverty



Section IV. Five Year Bicycle Program Work Efforts

The six main work efforts that make up the Program are not derived from a single plan. Each program, plan, and project initiation is developed from different priorities, data input, community involvement, and other factors; yet resources and information are pooled together to make informed decisions about projects moving forward. Information about each program and how projects are initiated are explained in this section.

Neighborhood Traffic Management (NTMT) Program

The Neighborhood Traffic Management program is dedicated to provide safe movement of vehicles, bicycles, and pedestrians throughout the City. Staff assists and educates residents on a variety of traffic safety issues. The projects completed by this program are developed through neighborhood requests, data analysis, warrants, school needs, and community support. The program has annual funding to support near term projects based on needs.

Pavement Maintenance Program

Phoenix has a comprehensive roadway network of more than 4,850 miles of public streets. The Street Transportation Department's Street Maintenance Division is responsible for the planning, programming and execution of the City's street maintenance program. This entails maintaining all roadways within the City's jurisdictional limits and does not include private streets, state routes maintained by ADOT and roads maintained by Maricopa County. The pavement maintenance program uses a



variety of pavement treatment and maintenance options, that include: crack seal, tire rubber modified surface seal (TRMSS), micro-seal, slurry seal, fractured aggregate surface treatment (FAST), and mill and overlay, which provide multiple benefits to the pavement preservation program.

Since the 1980s, the Department has utilized the pavement maintenance program as an integral tool to deliver bicycle facilities. The program provides an opportunity to incorporate new bicycle facilities, when the roadway receives either an overlay or micro-seal treatment. Crack seal and TRMSS treatments do not provide post-application opportunities for changing the existing roadway striping configuration to include new bike facilities.

As roadways are identified for maintenance, staff assesses five main factors to determine the feasibility of including bicycle facilities:

- 1. Type of pavement maintenance treatment
- 2. Existing bicycle facilities
- 3. Connecting bicycle facilities and bicycle master plan priority
- 4. Existing roadway geometry: rights of way, lane widths, signalization at intersections and signage
- 5. Vehicle volumes and posted speed limits

Capital Improvement Program Projects

The Street Transportation Department's Capital Improvement Program (CIP) includes a comprehensive pavement maintenance program, improvements to existing streets for mobility and safety issues, technology upgrades to signals, building new street and drainage infrastructure, expanding roadways, and much more. The five-year program provides over \$750 million in improvements to street transportation infrastructure.



The Department has identified five major areas to guide future investment of capital funding: 1) Major Streets Pavement Maintenance Program (50%); 2) New and Expanded Major Streets Program (35%); 3) Mobility Improvements (15%); 4) Technology Enhancements; (5%) and 5) Flood Control Projects. These prioritized areas will ensure the CIP is best able to be responsive to the public's expectations, as well as supporting traffic, development, and drainage needs throughout the City.

The CIP covers a five-year period that is updated annually with a new year added. Projects are derived from adopted plans, studies, data analysis, and requests. Projects are then evaluated during the fall of every year. The current CIP can be accessed here: https://www.phoenix.gov/streets/projects.

Developer & Partner Agency Projects

The Street Transportation Department coordinates with the Planning and Development Department and reviews private development project plans pertaining to right-of-way dedications and improvements. Depending on the proposed development project locations and existing conditions, the department can require additional right-of-way dedications and/or roadway improvements to meet the required street cross-sections as per the approved Street Classification Map. Typically, the improvements in the public right-of-way is to conform to the proposed roadway as depicted in the Street Classification Map which includes additional travel lanes, curb and gutter, ADA ramps, sidewalk, bicycle lanes, street lights, landscaping, etc. Various street types are designed and built to serve all public users, including pedestrians and bicyclists, automobile, bus transit, and light rail transit.

There are several roadway segments and freeway interchanges throughout the City that come under the jurisdiction of other agencies, such as the Arizona Department of Transportation (ADOT) and the Maricopa Department of Transportation (MDOT). The Street Transportation Department coordinates with these agencies on right-of-way and infrastructure improvement items to make sure that required right-of-way and improvements are obtained from the developers to make streets contiguous across the jurisdiction. Further, the Street Transportation Department makes efforts to partner with other agencies and the development communities to complete any gaps in the existing infrastructure, as applicable.

Comprehensive Bicycle Master Plan

The 2014 Comprehensive Phoenix Bicycle Master Plan is a 20-year vision for improvements to the biking infrastructure in Phoenix. One of the primary achievements of the Bicycle Master Plan is to set forth a blueprint for extending bicycle facilities throughout the city to enhance bicycling as an appropriate and healthful transportation choice for the community. As part of this plan, over 400 projects were identified to improve bicycle facilities along 39 corridors throughout the City. The projects range in complexity from simple inexpensive lane striping adjustments to bike bridge construction estimated at several million dollars. The original BMP prioritized projects into three tiers to be completed by 2035. The first five years are more specific, while the remainder of the plan is generally divided into groups of years. Table 2 outlines the original priority from the BMP, locations and the adjusted tier for



implementation. The details of projects, segments and years of work are outlined in Appendix E.

| Table 2 - Bicycle Master Plan Original and Revised Tiers & Priorities | | | | | | | |
|---|--|--------------------|--|--|--|--|--|
| New Priority to Implement | Bicycle Master Plan Original Priority & Location | Type of Roadway | | | | | |
| 1 | 1) 3rd Street from Steele Indian School Park (Indian School Road) to Buckeye Road | Collector | | | | | |
| 1 | 4) 20th Street from Grand Canal Trail to Glendale Avenue | Collector | | | | | |
| 1 | 6) 12th Street from Cave Creek Road to Washington Street | Collector | | | | | |
| 1 | 7) 15th Ave from Dunlap Avenue to Jefferson Street | Collector | | | | | |
| 1 | 8A) Washington Street from 27th Avenue to 56th Street | Arterial | | | | | |
| 1 | 8B) Jefferson Street from 27th Avenue to 26th Street | Arterial | | | | | |
| 1 | 10) ReInventPHX Eastlake Bicycle Infrastructure and Intersection Projects (Van Buren Street) | Arterial | | | | | |
| 1 | 11) Maryland Ave from 43rd Avenue to 22nd Street | Collector | | | | | |
| 1 | 12B) 5th Avenue from Thomas Road to Washington Street | Collector | | | | | |
| 1 | 13) Encanto Boulevard / Oak Street from 19th Avenue to 52nd Street | Collector | | | | | |
| 1 | 14) 7th Avenue from Coral Gables Drive to Deer Valley Road | Arterial | | | | | |
| 1 | 17A) Missouri Ave from 43rd Avenue to 19th Avenue | Collector | | | | | |
| 1 | 19) Indian Bend Wash from SR 51 to East City Limits (Mountain View Road) | Canal/Wash | | | | | |
| 1 | 20) 40th Street from Shea Boulevard to Union Hills Drive | Collector | | | | | |
| 1 | 23) Sweetwater Avenue from 20th Street to Scottsdale Road | Collector | | | | | |

| | Continued Table 2 - Bicycle Master Plan Original and Revised Tiers & Priorities | | | | | | | |
|---------------------------------|---|--------------------|--|--|--|--|--|--|
| New Priority to Implement | BMP Original Priority & Location | Type of Roadway | | | | | | |
| 1 | 24) 32nd Street from Rose Garden Lane (CAP Canal) to Puget Avenue | Arterial | | | | | | |
| 1 | 25) Cave Creek Wash from Arizona Canal to 7th Street | Canal/Wash | | | | | | |
| 1 | 26) Roeser from 19th Avenue to 48th Street | Collector | | | | | | |
| 1 | 34) Cave Creek Road from 7th Street / Dunlap Road to Carefree Highway | Arterial | | | | | | |
| 1 | 37) Encanto Boulevard from 95th Avenue to 31st Avenue | Collector | | | | | | |
| 1 & 2 | 3) Central Avenue from Mountain View Road to South Mountain Park | Arterial | | | | | | |
| 1 & 2 | 12A) 3rd Avenue from Arizona Canal to Jefferson Street | Collector | | | | | | |
| 1 & 2 | 31) Chandler Boulevard from 27th Avenue to I-10* | Arterial | | | | | | |
| 1 & 2 | 33) Western Canal from 27th Avenue to 48th Street | Canal | | | | | | |
| 1 & 2 | 35) Broadway Road from 99th Avenue to 48th Street | Arterial | | | | | | |
| 1, 2 & 3 | 15) Grand Canal from 75th Avenue to East City Limits (SR 202) | Canal | | | | | | |
| 2 | 9) ReInventPHX Gateway Bicycle Infrastructure and Intersection Projects (Van Buren) | Arterial | | | | | | |
| 2 | 18) 48th Street from Baseline Road to Pecos Park | Arterial | | | | | | |
| 2 | 21) Union Hills Drive from 51st Avenue to Tatum Boulevard | Arterial | | | | | | |
| 2 | 27) Baseline Road from 75th Avenue to 48th Street | Arterial | | | | | | |
| 2 | 36) Deer Valley Road from 35th Avenue to 56th Street | Arterial | | | | | | |
| 2 | 38) 44th Street from Sky Harbor Airport to University Drive | Arterial | | | | | | |
| 2 &3 | 28) Arizona Canal from 51st Avenue to east city limits (60th Street) | Canal | | | | | | |
| 2 &3 | 29) Highline Canal from Dobbins Road to Arizona Grand Parkway | Canal | | | | | | |
| 2 &3 | 39) CAP Canal from West City limits (6700 W) to Scottsdale Road | Canal | | | | | | |
| 3 | 2) 24th Street from Van Buren Street to Baseline Road | Arterial | | | | | | |
| 3 | 5) Osborn Road from I-17 to 40th Street | Collector | | | | | | |
| 3 | 16) Ray Road from Chandler Boulevard to I-10 | Arterial | | | | | | |
| 3 | 17B) Missouri Avenue from 19th Avenue to 24th Street | Collector | | | | | | |
| 3 | 22) 19th Avenue from Jomax Road to Thunderbird Road | Arterial | | | | | | |
| 3 | 30) Southern Avenue from 75th Avenue to 48th Street | Arterial | | | | | | |
| 3 | 32) Dobbins Road from 51st Avenue to 20th Street | Collector | | | | | | |

Mobility Program

While a portion of the new sidewalk and bicycle facilities commitments will be achieved through the pavement maintenance program and the new and expanded major streets the Mobility program, **Improvements Program** allocated 15% of the Street Transportation Department's T2050 funds. This allocation will be utilized to meet the T2050 commitments to install 135 miles of new sidewalks and 1,080 miles of new bike lanes by 2050.

In 2016 and 2017, the Citizen's Transportation Commission (CTC) has provided guidance related to factors that helped define the prioritization process for implementing Mobility Improvements Program sidewalk projects scoping and areas for further multi-modal project scope identification and prioritization analysis. Street Transportation staff analyzed 11 data sets focusing on where

Map #6 – Mobility Improvement Areas for Assessments 28 WINDIANOLAAVE E OSBORN RD **ELEXINGTON AVE** EARLL DR E EARLL DR 6 E VIRGINIA AVE W ENCANTO BLVD MONTE VISTA RD 4 24 20 (11) 8 11 W MADISON ST E LINCOLN ST W GRANT ST 57R 5 18 E SKY HA 23 / W MOHAVE ST E MOHAVE ST RANGO ST W WATKINS ST E HAMMOND LN EUNIN E RVERVIEW DR E ELWOOD ST 34 WEIR AVE 16 WROESER RD

people walk and ride bicycles most often throughout the City, and where there are existing system deficiencies and/or gaps in bicycle, sidewalk, and transit infrastructure.

As of May 2017, the Citizens Transportation Commission, the Transportation & Infrastructure Subcommittee, and City Council recommended two primary focus areas for Mobility Improvement projects and further analysis:

- 1. Major Street Sidewalk Improvements Conduct additional project assessments for major street sidewalk improvements for ADA non-accessible bus stops.
- 2. Mobility Improvement Areas for Further Study Move forward with 11 areas for mobility assessments that will focus on safe pedestrian and bicycle facilities improvements funded by T2050.

Depending on the result of the two study efforts noted above, an additional focus may be needed for bicycle lanes.

Additional Programs

Bike Safety Campaign

As the City expands its bikeway system and continues to promote biking as an alternate transportation mode and healthier lifestyle, the Street Transportation department also strives to improve traffic safety for our current and new bicycle riders. The Bike Safe Phoenix campaign encourages drivers and bicyclists to be more aware of their environment and follow basic "rules of the road". The efforts are focused on reducing the number of collisions and conflicts between motor vehicles and bicycles.

As part of the campaign, citizens are encouraged to become safer drivers and bicyclists by taking a "Bike Safe Phoenix" pledge: https://www.phoenix.gov/streetssite/Pages/Bicycle-Safety-Pledge.aspx. This pledge is a commitment to be courteous and cautious when travelling along City streets, obey traffic laws, yield to pedestrians, maintain safe distances, and be alert for bicyclists and pedestrians.

The Bike Safe Phoenix campaign team also initiated a new program to install "wrong-way" stickers on the backs of existing street signs. These stickers are intended to remind bicyclists to ride with the traffic flow to be more easily seen by motorists who are turning from driveways and intersections.

Safe Routes to School Program

The Street Transportation Department's School Safety Section provides leadership, assistance and training to schools across the city to help ensure safety for students who walk or bicycle to school. The section also carries out various programs and initiatives to practice safe behaviors near school zones.



The section is responsible for reviewing and responding to pedestrian and traffic related concerns that affect all public, charter, private and parochial K-12 schools in Phoenix.

The section works directly with City management, Police, Neighborhood Services, Fire, Parks, other city departments, parents and residents to address concerns and ensure student safety.

Future Planning Efforts

Over the next two years, the City will implement two new planning efforts: Pedestrian Safety Action Plan and the Key Corridors Master Plan. The Key Corridors Master Plan will analyze corridors of significant economic and social importance within the community for identification of transportation improvement options. The Pedestrian Safety Action Plan will analyze previous pedestrian crash data, outline a plan of action for the City, and identify improvements at specific locations.

The City will also attempt to maximize resources by linking with related projects and leveraging funding opportunities in project areas. As an example, the City is merging efforts along Van Buren Street by combining the upcoming Van Buren Street Improvement Project, Choice Neighborhood Planning Grant, and the T2050 Mobility Assessment area.

Energy Saving Street Light Project

Energy Saving Street Light Project to Ameresco under the enhanced capital proposal to replace up to 100,000 street lights with new Light Emitting Diode (LED) at 2,700 Kelvin citywide. The project is slated to start with an initial roll out in mid-August 2017 with completion in late 2018 or early 2019. This program is expected to enhance visibility for all users of the public street network.

Section V. Five Year Bicycle Program

Information from the six work efforts varies and is dependent on how far in advance projects are scheduled per program. Table 3 outlines the availability of project specific information per fiscal year (FY) for each plan/program. A fiscal year runs from July 1st of the one year to June 30th of the next year. Understanding the limits of each program sets the parameters for the data analysis. The Pavement Maintenance Program, the Capital Improvement Program and the Bicycle Master plan have identified projects, funding, and scope per year until 2021. The Mobility Program will be a five-year program as it advances through the project and mobility assessments. The developer and neighborhood projects are not planned in future years because they are identified on an ongoing basis.

Additionally, it is recognized that planning, pre-design work, and implementation are cyclical and that the result of new bicycle facilities will change from year to year depending on these efforts.

| Table 3 - Years that Projects are Identified in Each Plan/Program | | | | | | | | | |
|---|------------|--------|------------|------------|------------|----------|--|--|--|
| Plan/Program | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | | | |
| Traffic Services – Neighborhood Program | \bigcirc | n/a | n/a | n/a | n/a | n/a | | | |
| Pavement Maintenance Program | | | | | | TBD** | | | |
| Capital Improvement Program Projects | \bigcirc | | | | | | | | |
| Developer Projects | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| Bicycle Master Plan Lifecycle | ⊘ | | \bigcirc | \bigcirc | \bigcirc | ⊘ | | | |
| Mobility Program | n/a | n/a | n/a | n/a | n/a | n/a | | | |

^{*} The Mobility Program will be a five-year program after project and area assessments are complete and a five-year plan is recommended by the Citizen's Transportation Commission.

Bicycle Facilities per Plan/Program

Tables 4 and 5 outline the bicycle facilities per program and in total, that the City has completed (2017) and is planning to complete by FY2022. Information for FY2017 documents the work efforts installed to date, and FY2018-2022 is a forecast that still provides the City with opportunities to do more.

The most recent fiscal year (FY2017) completed 17.5 miles of new bicycle lanes. This number is lower than projected originally, which is due to two projects (Missouri Avenue: 19th Avenue to 24th Street and Osborn Rd: between 19th Avenue to 20th Street and 36th To 40th Streets) not moving forward.

^{**} FY2022 Pavement Maintenance Program is expected to be recommended and approval in FY2018.

Looking forward to FY2018 – 2021, the City will utilize the Pavement Maintenance Program to its fullest extent in coordinating installation of new facilities; 69 bi-directional miles of bike lanes and extending bicycle lanes to the intersection at 27 locations. The FY2022 pavement maintenance program and schedule has not yet been approved.

The Bicycle Master Plan will also see completion of 128 individual projects that include full improvements to the Grand Canal between the City limits and the I-17. Bicyclists will be able to ride on 26 miles of new shared use path and cross streets safely with a variety of treatments that include HAWKs, rapid flashing beacons, and crosswalks.

The information about bicycle lanes and facilities related to the Mobility program is yet to be defined. The Street Transportation Department is actively working on planning efforts and evaluating potential projects. Once this effort is complete, the bike facilities will be included in this report.

Detailed reports per year, per program, location, and type of new bicycle facility are noted in the related appendices: Appendix A - 2017, Appendix B - 2018, Appendix C - 2019, Appendix D - 2020, Appendix E - 2021, and Appendix F - 2022.

| Table 4 - Bike Facilities per Program per Fiscal Year | | | | | | | | |
|---|----------------|-----------|-----------|--------|--------|--------|--|--|
| Neighborho | ood Traffic Ma | anagemen | t Program |) | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | | |
| Bike Lanes (Bi-Dir. Miles) | 6.5 | | | | | | | |
| Buffered Bike Lanes (Bi-Dir. Miles) | n/a | | | | | | | |
| Protected Bike Lanes | n/a | | | | | | | |
| Extending bike lanes to intersections (# of Improvements) | n/a | | | | | | | |
| Shared Use Paths (Bi-Dir. Miles) | n/a | | | | | | | |
| Bicycle Detection (# of Improvements) | n/a | | | | | | | |
| Pavement Maintenance | | | | | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | | |
| Bike Lanes (Bi-Dir. Miles) | 6.08 | 8 | 19.5 | 27.8 | 11.8 | | | |
| Buffered Bike Lanes (Bi-Dir. Miles) | n/a | n/a | n/a | n/a | n/a | | | |
| Protected Bike Lanes | n/a | n/a | n/a | n/a | n/a | | | |
| Extending bike lanes to intersections (# of Improvements) | 2 | 6 | 8 | 6 | 5 | | | |
| Shared Use Paths (Bi-Dir. Miles) | n/a | n/a | n/a | n/a | n/a | | | |
| Bicycle Detection (# of Improvements) | TBD | TBD | TBD | TBD | TBD | | | |
| Сарі | ital Improvem | ent Progr | am | | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | | |
| Bike Lanes (Bi-Dir. Miles) | 2 | 2.66 | 2 | 0 | 4 | TBD | | |
| Buffered Bike Lanes (Bi-Dir. Miles) | n/a | n/a | n/a | n/a | n/a | TBD | | |
| Protected Bike Lanes | n/a | n/a | n/a | n/a | n/a | TBD | | |
| Extending bike lanes to intersections (# of Improvements) | n/a | n/a | n/a | n/a | n/a | TBD | | |

| Shared Use Paths (Bi-Dir. Miles) | n/a | n/a | n/a | n/a | n/a | TBD |
|---|----------------|-----------|--------|--------|--------|--------|
| Bicycle Detection (# of Improvements) | TBD | TBD | TBD | TBD | TBD | TBD |
| | Developer F | Projects | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 |
| Bike Lanes (Bi-Dir. Miles) | | | | | | |
| Buffered Bike Lanes (Bi-Dir. Miles) | | | | | | |
| Protected Bike Lanes | | | | | | |
| Extending bike lanes to intersections (# of Improvements) | | | | | | |
| Shared Use Paths (Bi-Dir. Miles) | | | | | | |
| Bicycle Detection (# of Improvements) | | | | | | |
| | BMP Pro | jects | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 |
| Bike Lanes (Bi-Dir. Miles) | 3 | 27.6 | 18.16 | 16.34 | 7.84 | 25.84 |
| Shared Lane Markings | 0.24 | 9.38 | 1.7 | 3 | n/a | n/a |
| Buffered Bike Lanes (Bi-Dir. Miles) | n/a | 1 | n/a | n/a | n/a | n/a |
| Protected Bike Lanes | n/a | n/a | 2.9 | 2 | n/a | n/a |
| Extending bike lanes to intersections (# of Improvements) | 1 | 17 | 9 | 19 | 2 | 30 |
| Shared Use Paths (Bi-Dir. Miles) | n/a | n/a | 21.1 | n/a | n/a | 5 |
| Bicycle Detection (# of Improvements) | TBD | TBD | TBD | TBD | TBD | TBD |
| M | obility Progra | m Project | s | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 |
| Bike Lanes (Bi-Dir. Miles) | | | | | | |
| Buffered Bike Lanes (Bi-Dir. Miles) | | | | | | |
| Protected Bike Lanes | | | | | | |
| Extending bike lanes to intersections (# of Improvements) | | | | | | |
| Shared Use Paths (Bi-Dir. Miles) | | | | | | |
| Bicycle Detection (# of Improvements) | | | | | | |

Section VI. Shifting Gears

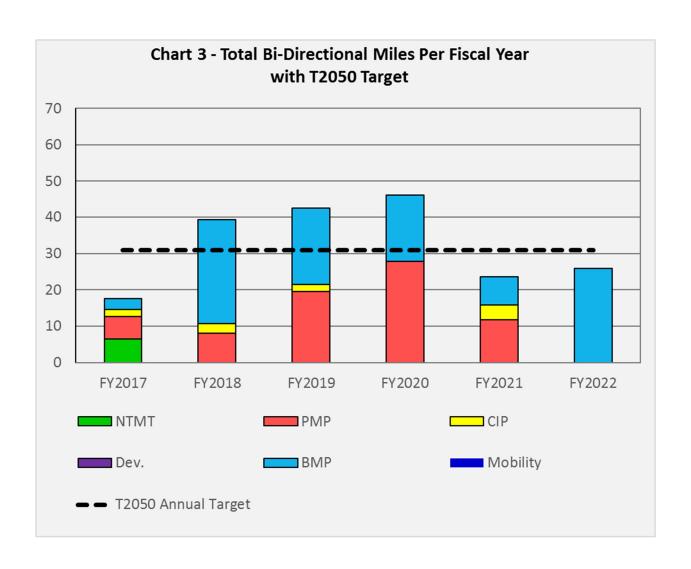
The Five-Year Bicycle Program compiles the information about the City's efforts to include bicycle facilities in a comprehensive manner. Through FY2022, the T2050 annual target of installing 31 bi-directional miles of bicycle lanes per year equals 186 bi-directional bicycle lane miles. As noted in Table 5, in FY 2022, the City is on track to install just over 187 miles of new bi-directional bicycle lanes, plus an additional 5 miles of protected bicycle lanes for a total of 194 miles (Table 6). Map #7 details the existing and the five-year plan.

| Table 5 - Total Bike Facilities per Program | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|----------------------------|--|--|
| Total of Six Plans/Programs | | | | | | | | | |
| Bike Facility | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | Total - FY2017- 2022 | | |
| Bike Lanes (Bi-Dir. Miles) | 17.58 | 38.26 | 39.66 | 44.14 | 23.64 | 25.84 | 189.12 | | |
| Buffered Bike Lanes (Bi-Dir. | | | | | | | | | |
| Miles) | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| Protected Bike Lanes | 0 | 0 | 2.9 | 2 | 0 | 0 | 4.9 | | |
| Extending bike lanes to intersections (# of | | | | | | | | | |
| Improvements) | 3 | 23 | 17 | 25 | 7 | 30 | 102 | | |
| Shared Use Paths (Bi-Dir. Miles) | 0 | 0 | 21.1 | 0 | 0 | 5 | 26.1 | | |
| Bicycle Detection (# of Improvements) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

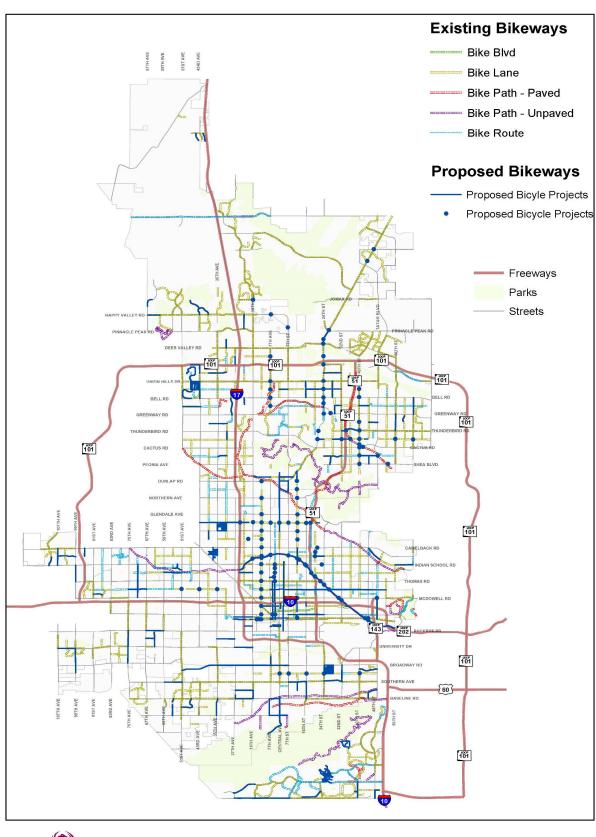
Annually, the total miles fluctuate due to projects finishing final design, project schedules, and planning efforts being completed. Looking individually at fiscal years, FY2018, FY 2019, and FY2020 exceed the annual T2050 Target of 31, while FY2017, 2021 and 2022 are under the target as documented in Table 6.

| Table 6 - Total Bike Facilities per Program | | | | | | | | |
|---|-----------------------------|--------|--------|--------|--------|--------|----------------------------|--|
| Total of Six Plans/Programs | Total of Six Plans/Programs | | | | | | | |
| | FY2017 | FY2018 | FY2019 | FY2020 | FY2021 | FY2022 | Total - FY2017- 2022 | |
| Total Bike Lanes (Bi-Dir. Miles) | | | | | | | | |
| including Buffered and Protected | | | | | | | | |
| Lanes | 17.58 | 38.26 | 42.56 | 46.14 | 23.64 | 25.84 | 194.02 | |
| T2050 Annual Target | 31 | 31 | 31 | 31 | 31 | 31 | 186 | |
| | | | | | | | | |
| Over/(Under) Target | (13) | 7 | 12 | 15 | (7) | (5) | 8.02 | |

As shown in Chart 3, bicycle miles come from the projects of different plan/programs. Map #7 is included to show what is completed, what is planned in the next five years as the Five-Year Bicycle Program moves forward. This number will change and most likely have a positive influence on this program and bicycle lane miles will increase. Overall, the Five-Year Bicycle Program demonstrates that the City is *Shifting Gears* for a more complete transportation system.



Map #7 – Existing and Proposed Bicycle Facilities





Draft 5 Year Bicyle Program



APPENDICES A - F

APPENDIX A - FY2017

| | FY2017 - Neighborhood Traffic Management Program | | | | | | | | |
|-----------------|--|-------------------------------|-------------------|------------------------|----------------------|---------------|---------|--|--|
| Location | From | То | Distance (mi.) | Bi- Directiona I | Existing Facility | Post Facility | Program | | |
| | | | | | | 4-6 Foot Bike | | | |
| 44th Street | Shea Blvd. | Cholla Street | 0.5 | 1 | None | Lane | NTMT | | |
| Campbell | | | | | | 4-6 Foot Bike | | | |
| Avenue | 99th Avenue | 107th Avenue | 1 | 2 | None | Lane | NTMT | | |
| | | | | | | 4-6 Foot Bike | NTMT / | | |
| Cholla Street | 40th Street | Tatum Boulevard | 0.75 | 1.5 | None | Lane | ВМР | | |
| | 56th Street to 64th | | | | | 4-6 Foot Bike | | | |
| Lafayette Blvd. | Street | 64th Street | 1 | 2 | None | Lane | NTMT | | |
| | Т | otal New Bicycle Lanes | 3.25 | 6.5 | | | | | |
| | Total New Shared Lane Markings | | | | | | | | |
| | Total New Protected Bicycle Lanes | | | | | | | | |
| | Total New | Buffered Bicycle Lanes | | | 1 | | | | |

| | FY2017 - Pavement Maintenance Management Program | | | | | | | | | |
|---------------------|--|------------------------|-------------------|------------------------|-----------------------|---------------------------|---------|--|--|--|
| Location | То | From | Distance (Mi.) | Bi- Directiona I | Existing Facility | Post Facility | Program | | | |
| Clarendon Avenue | 55th Avenue | Indian School Road | 0.44 | 0.88 | None | Bike Lane | PMP | | | |
| Maryvale Pkwy | Clarendon Avenue | 51st Avenue | 1.1 | 2.2 | None | Bike Lane | PMP | | | |
| Grovers Avenue | 16th Street | Cave Creek Road | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatment | PMP | | | |
| Liberty Lane | 15th Street | 24th Street | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatment | PMP | | | |
| Cholla Street | 35th Avenue | 31st Avenue | 0.5 | 1 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | | | |
| Grovers Road | vers Road Cave Creek Road 32nd Street | | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | | | |
| | 3.04 | 6.08 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | Total New | Buffered Bicycle Lanes | | | | | | | | |

| I | CIP Program (projects that are in the CIP and are Bicycle Master Plan projects are accounted for in the Bicycle Master | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| I | Plan Program) | | | | | | | | | |
| I | · ········ | | | | | | | | | |
| I | Bi- | | | | | | | | | |

| Location | From | То | Distance (mi.) | Bi- Directiona I | Existing Facility | Post Facility | Program |
|---|-------------|-------------|-------------------|------------------------|----------------------|-----------------------|----------------|
| Avenida Rio Salado/Broadw ay Road | 51st Avenue | 43rd Avenue | 1 | 2 | None | 4-6 Foot Bike Lane | CIP Program |
| Total New Bicycle Lanes | | | 1 | 2 | | | |
| Total New Shared Lane Markings | | | | | | | |
| Total New Protected Bicycle Lanes | | | | | | | |

Total New Buffered Bicycle Lanes

| | FY2017 - Bicycle Master Plan | | | | | | | | |
|-----------------------------------|------------------------------|--|-------------------|----------------|-------------------|--------------------|-------------------|----------------------------|--|
| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | |
| 8.1 | BMP-08A.A | Adams Street between 27th Ave and 19th Ave | 27th Avenue | 19th Avenue | 1 | 2 | None | 4-6 Foot Bike Lane | |
| 8.2 | BMP-08B.A | Jefferson Street between 27th Ave and 22nd Ave | 27th Avenue | 22nd Avenue | 0.5 | 1 | Bike Route | 4-6 Foot Bike Lane | |
| 8.2 | BMP-08B.C | Jefferson Street between 20th Ave and 19th Ave | 20th Avenue | 19th Avenue | 0.12 | 0.24 | None | Shared Lane Markings | |
| | | | | | | | | Extend Bike Lanes to | |
| 13 | BMP-13K | Encanto Blvd. at 15th Ave Intersection | at 15th Avenue | | 0 | 0 | No Bike Lanes | Intersectio n | |
| Total New Bicycle Lanes | | | 1.5 | 3 | | | | | |
| Total New Shared Lane Markings | | 0.12 | 0.24 | | | | | | |
| Total New Protected Bicycle Lanes | | | | | | | | | |
| Total New Buffered Bicycle Lanes | | | | | | | | | |

APPENDIX B - FY2018

| Location Durango Street | To 27th Avenue | From | Distance | Bi- | Filables | | | |
|--------------------------------|-----------------------------------|-------------------------|----------|-------------|-----------------------|--------------------------------------|--|---------------------|
| Durango Street | 27th Avenue | | (mi.) | Directional | Existing Facility | Post Facility | Program | FY of Completion |
| | | 35th Avenue | 1 | 2 | No Bike Lane | 4-6 Foot Bike Lane | PMP | 2018 |
| 16 St | N/O Bell Rd | S/O Union Hills Dr | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| 32 St | N/O Southern Ave | S/O Broadway Rd | 1 | 2 | No Bike Lane | Shared Lane Markings | PMP | 2018 |
| 56 St | N/O Thunderbird Rd | S/O Greenway Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| 64 St | N/O Greenway Pkwy | S/O Bell Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| Cave Creek Rd | N/O Deer Valley Rd | S/O Pinnacle Peak Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| Dobbins Rd | 7 Ave | 7 St | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2018 |
| Durango St | E/O 27 Ave | W/O 35th Ave | 1 | 2 | No Bike Lane | 4-6 Foot Bike Lane | PMP | 2018 |
| Hatcher Rd | 19 Ave | 7 Ave | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2018 |
| Hatcher Rd | E/O 7 St | W/O Cave Creek Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| Hatcher Rd | W/O Central Ave | W/O 7 St | 0 | 0 | 4-6 Foot Bike Lane | Intersection Treatments Needed | PMP | 2018 |
| Total New Bicycle Lanes | | | | 8 | | - | <u>. </u> | |
| Total New Shared Lane Markings | | | | 2 | | | | |
| | Total New Protected Bicycle Lanes | | | | | | | |
| | Total New Buffered Bicycle Lanes | | | | | | | |

CIP Program (projects that are in the CIP and are Bicycle Master Plan projects are accounted for in the Bicycle Master Plan Program) Distance Bi-**Existing** Location From То **Post Facility** Program **Fiscal Year** Directional Facility (mi.) 4-6 Foot Bike CIP 1st Street Mckinley Street Moreland Street 0.33 0.66 None Program 2018 Lane

4-6 Foot Bike

Lane

CIP

Program

2018

Avenida Rio
Salado/Broadway
Road 43rd Avenue 35th Avenue 1 2 None
Total New Bicycle Lanes 1.33 2.66
Total New Shared Lane Markings
Total New Protected Bicycle Lanes
Total New Buffered Bicycle Lanes

| FY2018 - Bicycle Master Plan | | | | | | | | | |
|------------------------------|------------|-------------------|----------|------------|----------|-------------|----------|------------------|--|
| | | Location | То | From | Distance | Bi- | Existing | Post Facility | |
| BMP Proj. No. | Segment ID | Location | 10 | FIOIII | (mi.) | Directional | Facility | Post Facility | |
| | | | | | | | | | |
| | | | Mountai | | | | | | |
| | | | n View | Ruth | | | | Bicycle Route | |
| 3 | BMP-03A | Central Avenue | Road | Avenue | 0 | 0 | None | Signage | |
| | | | | Bethany | | | | | |
| | | | Ruth | Home | | | | Shared Lane | |
| 3 | BMP-03B | Central Avenue | Avenue | Road | 2.69 | 5.38 | None | Markings | |
| | | | | | | | | Extend Bike | |
| | | | Western | Mineral | | | Bike | Lanes to | |
| 3 | BMP-03G | Central Avenue | Canal | Road | 0.2 | 0.4 | Lanes | Intersection | |
| | | | | Phoenix | | | | | |
| | | | | South | | | | Extend Bike | |
| | | | Mineral | Mountain | | | | Lanes to | |
| 3 | BMP-03H | Central Avenue | Road | Park | 1.2 | 2.4 | None | Intersection | |
| | | | Osborn | Thomas | | | | | |
| 6 | BMP-06F | 12th Street | Road | Road | 0 | 0 | None | Bike HAWK | |
| | | | | | | | | | |
| | | | Van | Harrison | | | | Buffered Bicycle | |
| 7 | BMP-07D | 15th Avenue | Buren St | St. | 0.5 | 1 | None | Lanes | |
| | | | Harrison | | | | | | |
| 7 | BMP-07R | 15th Avenue | St. | I-17 | 1 | 2 | None | Bicycle Lane | |
| | | | | | | | | | |
| | | | 7th | | | | | Shared Lane | |
| 8.1 | BMP-08A.C | Washington Street | Avenue | 7th Street | 1.01 | 2.02 | None | Markings | |
| | | | | | | | | Extend Bike | |
| | | | at 44th | | | | No bike | Lanes to | |
| 8.1 | BMP-08A.E | Washington Street | Street | | 0 | 0 | lanes | Intersection | |
| | | | | | | | | 4-6 Foot Bike | |
| | | | 7th | | | | | Lane | |
| 8.2 | BMP-08B.F | Jefferson Street | Avenue | 5th Street | 0.89 | 1.78 | None | | |
| | | | | | | | | Extend Bike | |
| | | | at 17th | | | | No Bike | Lanes to | |
| 8.2 | BMP-08B.H | Jefferson Street | Avenue | | 0 | 0 | Lane | Intersection | |
| | | | | | | | | Extend Bike | |
| | | | at 16th | | | | No Bike | Lanes to | |
| 8.2 | BMP-08B.I | Jefferson Street | Avenue | | 0 | 0 | Lane | Intersection | |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility |
|---------------|--------------|-------------------|----------------|---------------------------|-------------------|--------------------|----------------------|-----------------------|
| | | | | | | | - | Extend Bike |
| | | | at 15th | | | | No Bike | Lanes to |
| 8.2 | BMP-08B.J | Jefferson Street | Avenue | | 0 | 0 | Lane | Intersection |
| | | | Van | | | | | 4-6 Foot Bike |
| | | | Buren | Jefferson | | | | Lane |
| 12.1 | BMP-12A.D | 3rd Avenue | Street | Street | 0.3 | 0.6 | None | |
| | | | at Van | | | | | Extend Bike |
| | | | Buren | | | | No Bike | Lanes to |
| 12.1 | BMP-12A.J | 3rd Avenue | Street | | 0 | 0 | Lane | Intersection |
| | | | Van | | | | | 4-6 Foot Bike |
| | | | Buren | Washingto | | | | Lane |
| 12.2 | BMP-12B.B | 5th Avenue | Street | n Street | 0.22 | 0.44 | None | |
| | | | | | | | | Through Bike |
| | | | at Van | | | | | lanes with |
| 40.0 | DN 4D 4 2D 5 | | Buren | | 0.0 | 0.4 | No Bike | intersection |
| 12.2 | BMP-12B.F | 5th Avenue | Street | 22 - 4 | 0.2 | 0.4 | Lane | road diet |
| 4.2 | 20.42.42.0 | | 24th | 32nd | 0.00 | 4.00 | D 1: | Shared Lane |
| 13 | BMP-13G | Oak Street | Street | Street | 0.99 | 1.98 | Parking | Markings |
| | | | | 47th Diago | | | | 4 C Faat Dilea |
| | | | 32nd | 47th Place / Cross-cut | | | Bike | 4-6 Foot Bike |
| 12 | DMD 1211 | Ook Stroot | | | 1.00 | 2.00 | | Lane |
| 13 | BMP-13H | Oak Street | Street 48th | Canal 52nd | 1.98 | 3.96 | Route | 4 C Faat Dilea |
| 13 | BMP-13I | Oak Street | | | 0.49 | 0.00 | None | 4-6 Foot Bike |
| 13 | DIVIP-131 | Oak Street | Street | Street | 0.49 | 0.98 | None | Lane 4-6 Foot Bike |
| 13 | BMP-13J | Oak Street | 52nd St | 56th St | 0.5 | 1 | None | Lane |
| 13 | DIVIE-121 | Oak Street | at | 3011131 | 0.5 | 1 | None | Lane |
| | | | Thunder | | | | | |
| | | | bird | | | | Underpas | |
| 19 | BMP-19A | Indian Bend Wash | Road | | 0 | 0 | | Wayfinding |
| | 51411 2571 | maran Bena Wash | at 36th | | Ū | | 3 | wayiiiaiig |
| 19 | BMP-19B | Indian Bend Wash | Street | | 0 | 0 | Crosswalk | Wayfinding |
| | | | at 40th | | | | Underpas | ., . 0 |
| 19 | BMP-19C | Indian Bend Wash | Street | | 0 | 0 | S | Wayfinding |
| | | | at | | | | | , 0 |
| | | | Cactus | | | | Underpas | |
| 19 | BMP-19D | Indian Bend Wash | Road | | 0 | 0 | S | Wayfinding |
| | | | at | | | | | |
| | | | Tatum | | | | Underpas | |
| 19 | BMP-19E | Indian Bend Wash | Blvd | | 0 | 0 | S | Wayfinding |
| | | | at Shea | | | | Underpas | |
| 19 | BMP-19F | Indian Bend Wash | Blvd | | 0 | 0 | S | Wayfinding |
| | | | | | | | | 4-6 Foot Bike |
| | | | 27th | 18th | | | | Lane |
| 31 | BMP-31A | Chandler Blvd | Avenue | Avenue | 0.8 | 1.6 | None | 20110 |
| | | | | | | | | |
| | | | at | | | | | |
| | | | Sweetw | | | | | Extend Bike |
| | | | ater | | | | No Bike | Lanes to |
| 34 | BMP-34I | Cave Creek Road | Avenue | | 0 | 0 | Lanes | Intersection |
| | | | at | | | | N = D" | Extend Bike |
| 2.4 | DMD 241 | Cove Create Based | Sharon | | | ^ | No Bike | Lanes to |
| 34 | BMP-34J | Cave Creek Road | Drive | <u>l</u> | 0 | 0 | Lanes | Intersection |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility |
|---------------|----------------------------------|---|----------|--------|-------------------|--------------------|----------------------|------------------|
| | | | | | () | 211 666161141 | - comey | |
| | | | at | | | | | Extend Bike |
| | | | Greenw | | | | No SB | Lanes to |
| 34 | BMP-34K | Cave Creek Road | ay Road | | 0 | 0 | Bike Lane | Intersection |
| | | | | | | | | |
| | | | at | | | | | |
| | | | Greenw | | | | N 5:1 | Extend Bike |
| 24 | DMD 241 | Cava Craak Daad | ay | | 0 | | No Bike | Lanes to |
| 34 | BMP-34L | Cave Creek Road | Parkway | | 0 | U | Lanes | Intersection |
| | | | at | | | | | Extend Bike |
| | | | Grandvi | | | | No Bike | Lanes to |
| 34 | BMP-34M | Cave Creek Road | ew Road | | 0 | | Lanes | Intersection |
| | | | | | | | | |
| | | | at Bell | | | | No Bike | Combined Bike |
| 34 | BMP-34N | Cave Creek Road | Road | | 0 | 0 | Lanes | Lane / Turn Lane |
| | | | | | | | | |
| | | | | | | | | |
| | | | at | | | | | Extend Bike |
| | | | Grovers | | | | No Bike | Lanes to |
| 34 | BMP-340 | Cave Creek Road | Avenue | | 0 | 0 | Lanes | Intersection |
| | | | l | | | | | |
| | | | at Union | | | | | Extend Bike |
| 2.4 | DN 4D 0 4D | | Hills | | | | No Bike | Lanes to |
| 34 | BMP-34P | Cave Creek Road | Drive | | 0 | 0 | Lanes | Intersection |
| | | | at | | | | | Extend Bike |
| | | | Beardsle | | | | No Bike | Lanes to |
| 34 | BMP-34Q | Cave Creek Road | y Road | | 0 | | Lanes | Intersection |
| 5-7 | 5 540 | Care Creek Houd | at Rose | | U | | | Extend Bike |
| | | | Garden | | | | No Bike | Lanes to |
| 34 | BMP-34R | Cave Creek Road | Lane | | 0 | | Lanes | Intersection |
| | | | | | | | | |
| | | | 51st | 19th | | | | 4-6 Foot Bike |
| 35 | BMP-35F | Broadway Road | Avenue | Avenue | 4.03 | 8.06 | None | Lane |
| | | | | | | | | 4-6 Foot Bike |
| | | | 19th | | | | | Lane |
| 35 | BMP-35G | Broadway Road Avenue 7th Street | | | 2.02 | | None | |
| | | Total New Bicycle Lanes | | | 13.83 | 27.66 | | |
| | | Total New Shared Lane Markings Total New Protected Bicycle Lanes | | | 4.69 | 9.38 | | |
| | Total New Buffered Bicycle Lanes | | | | 0.5 | 1 | | |
| | I otal New Buπered Bicycle Lane | | | | | | | |

8/24/2017

APPENDIX C - FY2019

| CIP Program (projects that are in the CIP and are Bicycle Master Plan projects are accounted for in the Bicycle Master Plan Program) | | | | | | | | | |
|---|----------------------------------|------------------------|----------------|--------------------|----------------------|--------------------------|----------------|-------------|--|
| Location | From | То | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | Program | Fiscal Year | |
| 107th Avenue | Camelback Road | Indian School Roads | 1 | 2 | None | 4-6 Foot Bike Lane | CIP Program | 2019 | |
| 20711171101100 | | w Bicycle Lanes | 1 | 2 | 110116 | 1 | cii i rogiaiii | 2013 | |
| Total New Shared Lane Markings | | | |] | | | | | |
| Total New Protected Bicycle Lanes | | | | | | | | | |
| | Total New Buffered Bicycle Lanes | | | | | | | | |

| | FY2 | 019 - Pavement | Maintena | nce Managen | nent Progra | ım | | |
|----------|-----------------------|--------------------------|-------------------|--------------------|---------------------------------------|--|---------|---------------------|
| Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | Program | FY of Completion |
| 29 Ave | Greenway Rd | Bell Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| 31 Ave | N/O Sweetwater Ave | S/O Thunderbird Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| 35 Ave | Dobbins Rd | Baseline Rd | 0.9 | 1.8 | Partial Bike Lanes (.1 Mile) | New .9 Miles Of 4-6 Foot Bike Lane | РМР | 2019 |
| 43 Ave | Bell Rd | Union Hills Dr | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| 45 Ave | Grovers Ave | Union Hills Dr | 0.5 | 1 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |

| 7 Ave | N/O Broadway Rd | S/O Elwood St | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
|-----------------------|--------------------------|--------------------------|------|-----|---|--|-----|------|
| 71 Ave | N/O Mcdowell Rd | S/O Indian School Rd | 2 | 4 | No Bike Lanes | 4-6 Foot Bike Lane | РМР | 2019 |
| 75 Ave | N/O Broadway Rd | S/O Lower Buckeye Rd | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| Baseline Rd | E/O 7 Ave (N Bnd) | W/O Central Ave | 0.5 | 1 | No Bike Lane | 4-6 Foot Bike Lane | РМР | 2019 |
| Cotton Center Blvd | 40 St | 48 St | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| Encanto Blvd | E/O 75 Ave | W/O 67 Ave | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Grant St | E/O Black Canyon Frwy | W/O 19 Ave | 0.45 | 0.9 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Happy Valley Rd | E/O 67 Ave | W/O 61 Ave (S/Bnd) | 0.2 | 0.4 | 4-6 Foot Bike Lane Partially Exist | 4-6 Foot Bike Lane | РМР | 2019 |
| Mountain Gate Pass | E/O Cave Creek Rd | E/O Cave Creek Dam Rd | 0.5 | 1 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Oak St | E/O 7 St | W/O 14 St | 0.75 | 1.5 | No Bike Lanes | 4-6 Foot Bike Lane | РМР | 2019 |

| | | | T | T | 1 | | 1 | |
|------------------------|-----------------------------------|------------|------|------|-----------------------|--|-----|------|
| Osborn Rd | E/O 59 Ave | W/O 51 Ave | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Palm Ln | E/O 91 Ave | W/O 86 Dr | 0.5 | 1 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Roosevelt St | E/O 7 Ave | W/O 1 Ave | 0.45 | 0.9 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2019 |
| Southern Ave | E/O 7 St | W/O 16 St | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| Sweetwater Ave | E/O 32 St | W/O 36 St | 0 | 0 | 4-6 Foot Bike Lane | Intersect ion Treatme nts Needed | РМР | 2019 |
| Utopia/Yorkshire Dr | E/O Cave Creek Rd | E/O 32 St | 1 | 2 | No Bike Lanes | 4-6 Foot Bike Lane | РМР | 2019 |
| | Total New Bicycle Lanes | | 9.75 | 19.5 | | | | - |
| | Total New Shared Lane Markings | | | | 1 | | | |
| | Total New Protected Bicycle Lanes | | | | 1 | | | |
| | Total New Buffered Bicycle Lanes | | | | | | | |

| | | FY20 | 19 - Bicycle | Master Plan | | | | |
|---------------|------------|------------|--------------|-------------|-------------------|------------------------|----------------------|---------------|
| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directio nal | Existing Facility | Post Facility |
| | | | Indian | Roosevelt | | | | 4-6 Foot |
| 1 | BMP-01A | 3rd Street | School | Street | 2.1 | 4.2 | None | Bike Lane |
| | | | Indian | Roosevelt | | | | Protected |
| 1 | BMP-01A | 3rd Street | School | Street | 0.5 | 1 | None | Bike Lane |
| | | | Roosevelt | Filmore | | | | 4-6 Foot |
| 1 | BMP-01B | 3rd Street | Street | Street | 0.29 | 0.58 | None | Bike Lane |
| | | | Thomas | Van Buren | | | | 4-6 Foot |
| 12.1 | BMP-12A.C | 3rd Avenue | Road | Street | 1.5 | 3 | Bike Lane | Bike Lane |
| | | | Thomas | Van Buren | | | | Protected |
| 12.1 | BMP-12A.C | 3rd Avenue | Road | Street | 0.5 | 1 | Bike Lane | Bike Lane |
| | | | Thomas | Van Buren | | | | 4-6 Foot |
| 12.2 | BMP-12B.A | 5th Avenue | Road | Street | 1.98 | 3.96 | Bike Lane | Bike Lane |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directio nal | Existing Facility | Post Facility |
|---------------|------------|--------------------|---|--------------------|-------------------|------------------------|----------------------|---------------------------------------|
| | | | | | | | | 4-6 Foot |
| 13 | BMP-13E | Oak Street | 3rd Street | 16th Street | 1 | 2 | None | Bike Lane |
| | | | | | | | | Protected |
| 13 | BMP-13E | Oak Street | | 16th Street | 0.25 | 0.5 | None | Bike Lane |
| 13 | BMP-13F | Oak Street | 16th Street | 24th Street | 1.01 | 2.02 | Bike Route | 4-6 Foot Bike Lane |
| 13 | BMP-13C | Encanto Blvd. | 7th Avenue | Central Avenue | 0.52 | 1.04 | None | Shared Lane Markings |
| 13 | BMP-13D | Encanto Blvd. | Central Avenue | 3rd Street 15th | 0.33 | 0.66 | Discontinuo us | Shared Lane Markings Shared Use |
| 15 | BMP-15B | Grand Canal | I-17 | Avenue | 1.5 | 3 | Not Paved | Path |
| 1.5 | DIVII 130 | Grana Canai | 15th | , wenue | 1.5 | | | Shared Use |
| 15 | BMP-15C | Grand Canal | Avenue | 16th Street | 2.75 | 5.5 | Not Paved | Path |
| | | | 16th | | | | | Shared Use |
| 15 | BMP-15D | Grand Canal | Street | 36th Street | 3.5 | 7 | Not Paved | Path |
| 15 | BMP-15E | Grand Canal | 36th Street | 40th Street | 0.6 | 1.2 | Not Paved | Shared Use Path |
| | | | 40th | PHX/Tempe | | | | Shared Use |
| 15 | BMP-15F | Grand Canal | Street | Border | 2.2 | 4.4 | Not Paved | Path |
| 15 | BMP-15S | Grand Canal | at Indian School Road (2250 W) | | 0 | 0 | None | Crosswalk |
| 15 | BMP-15U | Grand Canal | at 15th Avenue | | 0 | 0 | None | Rapid Flashing Beacon |
| 15 | DNAD 45V | Crand Canal | at 7th | | | | None | Dilea LLANA/IK |
| 15 | BMP-15V | Grand Canal | Avenue at 7th | | 0 | - · | None | Bike HAWK |
| 15 | BMP-15X | Grand Canal | Street | | 0 | 0 | None | Crosswalk |
| 15 | BMP-15Y | Grand Canal | at 12th Street | | 0 | 0 | None | Rapid Flashing Beacon |
| 15 | BMP-15Z | Grand Canal | at Longview Avenue | | 0 | 0 | None | Crosswalk |
| | | | at Indian School Road | | | | | |
| 15 | BMP-15ZA | Grand Canal | (1550 E) | | 0 | 0 | None | Bike HAWK |
| 15 | BMP-15ZB | Grand Canal | at 16th Street | | 0 | 0 | None | Bike HAWK |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directio nal | Existing Facility | Post Facility |
|---------------|-------------|--------------------|-------------------|--------------|-------------------|------------------------|----------------------|--------------------|
| | | | | | | | | Rapid |
| | | | at Osborn | | | | | Flashing |
| 15 | BMP-15ZC | Grand Canal | Road | | 0 | 0 | None | Beacon |
| | | | | | | | | Rapid |
| | | | at 20th | | | | | Flashing |
| 15 | BMP-15ZD | Grand Canal | Street | | 0 | 0 | None | Beacon |
| | | | at | | | | | |
| | | | Thomas | | | | | |
| 15 | BMP-15ZE | Grand Canal | Road | | 0 | 0 | None | Crosswalk |
| | | | at 24th | | | | | |
| 15 | BMP-15ZF | Grand Canal | Street | | 0 | 0 | None | Bike HAWK |
| | | | at Oak | | | | | |
| 15 | BMP-15ZG | Grand Canal | Street | | 0 | 0 | None | Crosswalk |
| | | | at | | | | | |
| | | | McDowell | | _ | _ | | |
| 15 | BMP-15ZH | Grand Canal | Road | ļ | 0 | 0 | None | Bike HAWK |
| 4- | 21.42.4== | | at 32nd | | | | . | |
| 15 | BMP-15ZI | Grand Canal | Street | ļ | 0 | 0 | None | Bike HAWK |
| | | | 1. | | | | | |
| | | | at | | | | | |
| 45 | DNAD 457V | Canad Canal | Washingt | | _ | 0 | Name - | C |
| 15 | BMP-15ZK | Grand Canal | on Street | | 0 | U | None | Crosswalk |
| | | | o+ 4.4+b | | | | Dofuse | Rapid |
| 15 | BMP-15ZL | Grand Canal | at 44th Street | | 0 | 0 | Refuge Island | Flashing Beacon |
| 13 | DIVIP-13ZL | Granu Canai | at 48th | | 0 | U | isiaiiu | Beacon |
| 15 | BMP-15ZN | Grand Canal | Street | | 0 | 0 | None | Crosswalk |
| 13 | DIVIF-13ZIV | Grand Canal | at 19th | | U | 0 | None | CIOSSWAIK |
| 15 | BMP-15T | Grand Canal | Avenue | | 0 | 0 | None | Bike HAWK |
| 13 | DIVIF-131 | Granu Canai | Avenue | | 0 | U | None | DIKE HAWK |
| | | Sweetwater | 42nd | Paradise | | | | |
| 23 | BMP-23C | Avenue | Street | Village Pkwy | 1 | 2 | None | Bicycle Lane |
| | DIVII 23C | Avenue | 30,000 | Village FRWy | | | Itoric | Bicycle Larie |
| | | Sweetwater | 42nd | Paradise | | | | Protected |
| 23 | BMP-23C | Avenue | Street | Village Pkwy | 0.2 | 0.4 | None | Bike Lane |
| | J 250 | 7.70.70.0 | 0000 | · mage · mry | 0.1 | 011 | | J |
| | | | | | | | | |
| | | | at Cave | | | | | Extend Bike |
| | | Sweetwater | Creek | | | | No Bike | Lanes to |
| 23 | BMP-23E | Avenue | Road | | 0 | 0 | Lanes | Intersection |
| - | - | - | | | | | | |
| | | | | | | | | Extand Dika |
| | | Swootwatar | at 22nd | | | | No Bike | Extend Bike |
| 22 | DN4D 22F | Sweetwater | at 32nd | | _ | _ | | Lanes to |
| 23 | BMP-23F | Avenue | Street | 1 | 0 | 0 | Lanes | Intersection |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directio nal | Existing Facility | Post Facility |
|---------------|------------|------------|------------|------|-------------------|------------------------|----------------------|---------------|
| ., | 0 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | Sweetwater | at 40th | | | | No Bike | Lanes to |
| 23 | BMP-23G | Avenue | Street | | 0 | 0 | Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | Sweetwater | at 56th | | | | No Bike | Lanes to |
| 23 | BMP-23H | Avenue | Street | | 0 | 0 | Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | Sweetwater | at 64th | | | | No Bike | Lanes to |
| 23 | BMP-23I | Avenue | Street | | 0 | 0 | Lanes | Intersection |
| | | Cave Creek | at Peoria | | | | | |
| 25 | BMP-25A | Wash | Avenue | | 0 | 0 | Underpass | Wayfinding |
| | | Cave Creek | at Cactus | | | | | |
| 25 | BMP-25B | Wash | Road | | 0 | 0 | Underpass | Wayfinding |
| | | | | | | | | |
| | | | at | | | | | |
| | | Cave Creek | Thunderb | | | | | |
| 25 | BMP-25C | Wash | ird Road | | 0 | 0 | Underpass | Wayfinding |
| | | Cave Creek | at 7th | | | | | |
| 25 | BMP-25E | Wash | Avenue | | 0 | 0 | Underpass | Wayfinding |
| | | Cave Creek | at 7th | | | | | |
| 25 | BMP-25F | Wash | Street | | 0 | 0 | Underpass | Wayfinding |
| | | | | | | | | Through |
| | | | | | | | | Bike lanes |
| | | | at Deer | | | | | with |
| | | Cave Creek | Valley | | | | No SB Bike | intersection |
| 34 | BMP-34S | Road | Road | | 0.2 | 0.4 | Lane | road diet |
| | | | | | | | | |
| | | | | | | | | |
| | | | at | | | | | Extend Bike |
| | | Cave Creek | Mountain | | | | No Bike | Lanes to |
| 34 | BMP-34T | Road | Gate Pass | | 0 | 0 | Lanes | Intersection |
| | | | | | | | |] |
| | | | | | | | | |
| | | | at Desert | | | | | Extend Bike |
| | | Cave Creek | Peak | | | | No SB Bike | Lanes to |
| 34 | BMP-34U | Road | Pkwy | | 0 | 0 | Lane | Intersection |
| | | | | | | | | |
| | | | | | | | | |
| | | | at Desert | | | | | Extend Bike |
| | | Cave Creek | Willow E / | | | | No Bike | Lanes to |
| 34 | BMP-34V | Road | W Pkwy | | 0 | 0 | Lanes | Intersection |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directio nal | Existing Facility | Post Facility |
|---------------|------------|-----------------------------------|--------------|---------------|-------------------|------------------------|----------------------|---------------|
| | | | at Lone | | | | | Combined |
| | | Cave Creek | Mountain | | | | No Bike Lane | Bike Lane / |
| 34 | BMP-34W | Road | Road | | 0 | 0 | NB | Turn Lane |
| | | | Total New I | Bicycle Lanes | 9.08 | 18.16 | | _ |
| | | Total Nev | w Shared La | ne Markings | 0.85 | 1.7 | | |
| | | Total New Protected Bicycle Lanes | | 1.45 | 2.9 | | | |
| | | Total Nev | v Buffered I | Bicycle Lanes | | | | |

APPENDIX D - FY2020

| FY2020 - Pavement Maintenance Management Program | | | | | | | | | | |
|--|--------------------|------------------|-------------------|--------------------|---------------------------------------|---|---------|---------------------|--|--|
| Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | Program | FY of Completion | | |
| 41 Dr | End Of Road | Anthem Way | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| 47 Ave/Topeka R | N/O Union Hills Dr | N/O Yorkshire Dr | 0.7 | 1.4 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2020 | | |
| Campbell Ave | E/O 20 St | W/O 24 St | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| Dobbins Rd | E/O 51 Ave | W/O 43 Ave | 1 | 2 | No Bike Lane | 4-6 Foot Bike Lane | PMP | 2020 | | |
| Earll Dr | E/O 7th Ave | E/O 3rd Ave | 0.2 | 0.4 | No Bike Lanes | 4-6 Foot Bike Lane | PMP | 2020 | | |
| Grovers Ave | E/O Central Ave | W/O 7 St | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| Lower Buckeye R | E/O 107 Ave | W/O 99 Ave | 0.5 | 1 | Partial Bike Lanes (.5 Mile) | 4-6 Foot Bike Lane | PMP | 2020 | | |
| Paradise Ln | W/O 51 Ave | E/O 43 Ave | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| Southern Ave | 59 Ave | 51 Ave | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| Thunderbird Rd | W/S 32 St | E/S 40 St | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | PMP | 2020 | | |
| Cave Creek Rd | S/O Greenway Rd | N/O Bell Rd | 0.98 | 1.96 | None | 4-6 Foot Bike Lane | PMP | 2020 | | |

| 06-35 | Ahwatukee Ct / Mountain Preserve | Mountain Preserve / Blackfoot Dr | 1.49 | 2.98 | None | 4-6 Foot Bike Lane | PMP | 2020 |
|--------------------------------|---|---|------|------|----------------------|-----------------------------------|-----|------|
| Quarter Section 1-23/1-24 | Baseline Rd / Vineyard Rd | 27 Ave / 19 Ave | 1 | 2 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 23-32 | Glendale Ave / Orangewood Ave | Sr 51 Frwy / 24 St | 0.6 | 1.2 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 48-13 | Prickly Pear Trl / Pyramid Peak Prkwy | Pyramid Peak Prkwy / Mountain Preserve | 0.42 | 0.84 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 38-18 | Grovers Ave / Union Hills Dr | 47 Ave / 43 Ave | 1.06 | 2.12 | Bike Lane & Route | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 26-28 | Las Palmaritas Dr / Dunlap Ave | Central Ave / 7 St | 1 | 2 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 18-20/17-20 | Glenrosa Ave / Camelback Rd | 39 Ave / 35 Ave | 0.77 | 1.54 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| 12 St | N/O Vineyard Rd | S/O Southern Ave | 0.5 | 1 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| Quarter Section 21-21 | Maryland Ave / Bethany Home Rd | 35 Ave / 31 Ave | 1 | 2 | Bike Lane & Route | 4-6 Foot Bike Lane | РМР | 2020 |
| 7 Ave | N/O Dobbins Rd | S/O Baseline Rd | 0.5 | 1 | Partial Bike Lane | Complete 4-6 Foot Bike Lane | PMP | 2020 |
| Acoma Dr | E/O 39 Ave | W/O 31 Ave | 1 | 2 | None | 4-6 Foot Bike Lane | РМР | 2020 |

| Lindner Dr | Bell Rd / Grovers Ave | 51 Ave / 47 Ave | 0.38 | 0.76 | Partial Bike Lane | Complete 4-6 Foot Bike Lane | РМР | 2020 |
|-------------------------|-----------------------------------|---------------------|-------|-------|----------------------|-----------------------------------|-----|------|
| Quarter Section 4-33 | Roeser Rd / Broadway Rd | 24 St/28 St | 0.5 | 1 | Partial Bike Lane | Complete 4-6 Foot Bike Lane | РМР | 2020 |
| 95 Ave | Minnezona Ave | S/O Camelback Rd | 0.34 | 0.67 | None | 4-6 Foot Bike Lane | PMP | 2020 |
| | Total N | lew Bicycle Lanes | 13.94 | 27.88 | | | | |
| | Total New Shared Lane Markings | | | | | | | |
| | Total New Protected Bicycle Lanes | | | | | | | |
| | Total New Buffered Bicycle Lanes | | | | | | | |

| | | FY20 | 020 - Bicycle | Master Plan | | | | |
|---------------|------------|---------------|-----------------------|-------------------|-------------------|------------------------|----------------------|-------------------------------|
| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility |
| | | | Filmore | Washingto | | | | 4-6 Foot |
| 1 | BMP-01C | 3rd Street | Street | n Street | 0.43 | 0.86 | None | Bike Lane |
| 1 | BMP-01D | 3rd Street | Washingt on Street | Lincoln Street | 0.42 | 0.84 | None | 4-6 Foot Bike Lane |
| | | | Lincoln | Buckeye | | | | 4-6 Foot |
| 1 | BMP-01E | 3rd Street | Street | Road | 0.37 | 0.74 | None | Bike Lane |
| | | | | | | | | 4-6 Foot |
| 4 | BMP-04A | 20th Street | Glendale | Maryland | 1 | 2 | None | Bike Lane |
| 4 | BMP-04C | 20th Street | Clarmont | Bethany Home | 0.5 | 1 | None | Shared Lane Markings |
| 4 | DIVIP-04C | 20111 311 661 | Missouri | поше | 0.5 | 1 | None | Protected |
| 4 | BMP-04D | 20th Street | Ave | Camelback | 0.5 | 1 | Bike Lanes | Bike Lanes |
| 4 | BMP-04E | 20th Street | Camelbac k | Highland | 0.5 | 1 | Bike Lanes | Protected Bike Lanes |
| | | | | | | | | Through Bike lanes with |
| | | | Highland | | | | No Bike Lanes | intersection |
| 4 | BMP-04F | 20th Street | Avenue | | 0 | 0 | NB | road diet |
| | | | | | | | | |
| | | | Indian School | | | | | Extend Bike Lanes to |
| 12.1 | BMP-12A.E | 3rd Avenue | Road | | 0 | 0 | No Bike Lane | Intersection |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility |
|---------------|--------------|---------------|----------------|---------------------|-------------------|------------------------|----------------------|--------------------------|
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | Clarendo | | | | | Lanes to |
| 12.1 | BMP-12A.F | 3rd Avenue | n Avenue | | 0 | 0 | No Bike Lane | Intersection |
| | | | | | | | | Through |
| | | | | | | | | Bike lanes |
| | | | | | | | | with |
| 12.1 | DNAD 424 C | 2.14 | Osborn | | | | NI DY I I I I I | intersection |
| 12.1 | BMP-12A.G | 3rd Avenue | Road | | 0 | 0 | No Bike Lane | road diet |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| 12.1 | BMP-12A.H | 3rd Avenue | Earll Drive | | 0 | 0 | No Bike Lane | Lanes to Intersection |
| 12.1 | DIVIF-12A.II | Sid Aveilde | Dive | | 0 | 0 | NO DIKE Lane | intersection |
| | | | | | | | | |
| | | | T I | | | | NI DY I I I I I | Extend Bike |
| 12.1 | BMP-12A.I | 3rd Avenue | Thomas Road | | 0 | 0 | No Bike Lane SB | Lanes to Intersection |
| 12.12 | 51111 127111 | S. a / Wellac | noud | | | | | mersection |
| | | | | | | | | |
| | | | Melinda | Door Valloy | | | | Extend Bike |
| 14 | BMP-14B | 7th Avenue | Lane | Deer Valley Road | 0.11 | 0.22 | None | Lanes to Intersection |
| | | | | | | | | |
| | | | | | | | | Through |
| | | | | | | | | Bike lanes with |
| | | | Greenway | | | | | intersection |
| 14 | BMP-14C | 7th Avenue | Parkway | | 0.2 | 0.4 | No Bike Lanes | road diet |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | | | | | | Lanes to |
| 14 | BMP-14D | 7th Avenue | Bell Road | | 0 | 0 | No Bike Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | <u></u> | Grovers | | | | | Lanes to |
| 14 | BMP-14E | 7th Avenue | Avenue | | 0 | 0 | No Bike Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| 11 | DN4D 4.45 | 746 4 | Union | | _ | _ | Nie Dilecter | Lanes to |
| 14 | BMP-14F | 7th Avenue | Hills Drive | | 0 | 0 | No Bike Lanes | intersection |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility |
|---------------|------------|--------------------|-------------------|----------------|-------------------|------------------------|----------------------|--------------------------|
| | | | | | | | | - |
| | | | | | | | | |
| | | | Beardsley | | | | | Extend Bike |
| 14 | BMP-14G | 7th Avenue | Road (SR 101) | | 0 | _ | No Bike Lanes | Lanes to |
| 14 | BIVIF-14G | 7tii Aveilue | 101) | | 0 | U | NO BIKE Laries | IIILEI SECTION |
| | | | | | | | | |
| | | | Rose | | | | | Extend Bike |
| | | | Garden | | | | | Lanes to |
| 14 | BMP-14H | 7th Avenue | Lane | | 0 | 0 | No Bike Lanes | |
| | | | | | | | | Shared |
| 17 | DMD 474 | N diagonai Antonno | 43rd | 35th | 1.02 | 2.04 | Nene | Lane |
| 17 | BMP-17A | Missouri Avenue | 27th | Avenue 23rd | 1.02 | 2.04 | None | Markings 4-6 Foot |
| 17 | BMP-17C | Missouri Avenue | | Avenue | 2.5 | 5 | Detour | Bike Lane |
| | J 27 C | | 7.17-0.11-0 | 7.1.0 | | | 2 0 0 0 0 | 2 |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | 23rd | 19th | | | | Lanes to |
| 17 | BMP-17D | Missouri Avenue | | Avenue | 0.5 | 1 | None | Intersection |
| 25 | DMD 255 | Cave Creek | 19th | | | | | D'L - LLANAUZ |
| 25 | BMP-25D | Wash | Avenue 32nd | | 0 | 0 | None | Bike HAWK 4-6 Foot |
| 26 | BMP-26D | Roeser Road | Street | 36th Street | 0.51 | 1 02 | Bike Route | Bike Lane |
| 20 | 51111 205 | Noeser Noud | J. CCC | 301113111001 | 0.01 | 1.02 | Dire House | Direc Larie |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | at Central | | | | | Lanes to |
| 26 | BMP-26F | Roeser Road | Avenue | | 0 | 0 | No Bike Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | at 7th | | | | | Lanes to |
| 26 | BMP-26G | Roeser Road | Street | | 0 | 0 | No Bike Lanes | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| 36 | DMD 3CH | Doors Do | at 16th | | _ | _ | No Dilea I | Lanes to |
| 26 | BMP-26H | Roeser Road | Street | | 0 | 0 | No Bike Lanes | intersection |
| | | | | | | | | |
| | | | | | | | | Extend Bike |
| | | | at 24th | | | | | Lanes to |
| 26 | BMP-26I | Roeser Road | Street | | 0 | 0 | No Bike Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | |
| | | | at 40+b | | | | No Diko Lana | Extend Bike |
| 26 | BMP-26J | Roeser Road | at 40th Street | | 0 | n | No Bike Lane EB | Lanes to Intersection |
| 20 | DIVIY-20J | MOESEL MODU | שופפנ | | U | L | LD | 11116136111011 |

| DMD Dvo: No | Cogmont ID | Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post |
|---------------|------------|-----------------------------------|------------|---------------|-------------------|------------------------|----------------------|----------------------|
| BMP Proj. No. | Segment ID | | 91st | 87th | | di | | Facility 4-6 Foot |
| 37 | BMP-37B | Encanto Plud | Avenue | | 0.45 | 0.0 | None | Bike Lane |
| 5/ | DIVIP-37D | Encanto Blvd. | 87th | Avenue | 0.43 | 0.9 | None | 4-6 Foot |
| 37 | BMP-37C | Encanto Blvd. | Avenue | 86th Drive | 0.24 | 0.49 | None | Bike Lane |
| 37 | BIVIF-37C | Liicanto Bivu. | 83rd | 75th | 0.24 | 0.46 | None | 4-6 Foot |
| 37 | BMP-37E | Encanto Blvd. | Avenue | Avenue | 0.99 | 1 98 | None | Bike Lane |
| 37 | DIVII 37L | Encanto Blvd. | Avenue | Avenue | 0.55 | 1.50 | None | DIKC Lanc |
| | | between 75th | | | | | | |
| | | Ave and 67th | 75th | 67th | | | | 4-6 Foot |
| 37 | BMP-37F | Ave | Avenue | Avenue | 2.48 | 4.96 | None | Bike Lane |
| 0. | J 07. | Encanto Blvd. | | 7.17-0.11-0 | | | | Jine Zaire |
| | | between 67th | | | | | | |
| | | Ave and 55th | 67th | 55th | | | | 4-6 Foot |
| 37 | BMP-37F | Ave | Avenue | Avenue | 2.48 | 4.96 | None | Bike Lane |
| | | Encanto Blvd. | | | | | | |
| | | between 51st | | | | | | |
| | | Ave and 49th | 51st | 49th | | | | Bike |
| 37 | BMP-37H | Ave | Avenue | Avenue | 0 | 0 | None | Detection |
| | | Encanto Blvd. at | | | | | | |
| | | 51st Ave | at 51st | | | | No Bike Lanes | Bike |
| 37 | BMP-37J | Intersection | Avenue | | 0 | 0 | EB | Detection |
| | | | | | | | | |
| | | | | | | | | |
| | | Encanto Blvd. at | | | | | | Extend Bike |
| | | 43th Ave | at 43th | | | | | Lanes to |
| 37 | BMP-37K | Intersection | Avenue | | 0 | 0 | No Bike Lanes | Intersection |
| | | | | | | | | |
| | | | | | | | | |
| | | Encanto Blvd. at | | | | | | Extend Bike |
| | | 35th Ave | at 35th | | | | | Lanes to |
| 37 | BMP-37L | Intersection | Avenue | <u> </u> | 0 | | No Bike Lanes | Intersection |
| | | | | Bicycle Lanes | 8.17 | 16.34 | | |
| | | Total New Shared Lane Markings | | | 1.52 | 3.04 | | |
| | | Total New Protected Bicycle Lanes | | | 1 | 2 | | |
| | | Total New | Buffered I | Bicycle Lanes | | | | |

APPENDIX E - FY2021

| CIP Prog | CIP Program (projects that are in the CIP and are Bicycle Master Plan projects are accounted for in the Bicycle Master Plan Program) | | | | | | | | | | |
|-----------------|---|----------------------------|-------------------|------------------------|----------------------|-----------------------|-------------|--|--|--|--|
| Location | From | То | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility | Program | | | | |
| Buckeye Road | 67th Avenue | 59th Avenue/Loo p202 | 1 | 2 | None | 4-6 Foot Bike Lane | CIP Program | | | | |

Road 67th Avenue p202 1 2 None Bike Laile

Lower
Buckeye
Road 27th Avenue 19th Avenue 1 2 None

Total New Bicycle Lanes 2 4

Total New Shared Lane Markings
Total New Protected Bicycle Lanes
Total New Buffered Bicycle Lanes

| | | | FY2021 - Bicy | cle Master | ^r Plan | | | |
|------------------|------------|-------------|---------------|----------------------|-------------------|------------------------|----------------------|-----------------------|
| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility |
| 2 | BMP-02A | 24th Street | Van Buren St | Sky Harbor Cir | 0.83 | 1 66 | None | 4-6 Foot Bike Lane |
| | | | Sky Harbor | | 0.00 | | | 4-6 Foot Bike |
| 2 | BMP-02B | 25th Street | Circle | I-10 | 1.09 | 2.18 | None | Lane |
| | | Van Buren | | 24th | | | | 4-6 Foot Bike |
| 10 | BMP-10 | Road | 7th Street | Street | 2 | 4 | None | Lane |

Total New Bicycle Lanes 3.92 7.84

Total New Shared Lane Markings

Total New Protected Bicycle Lanes

Total New Buffered Bicycle Lanes

| | FY2021 - Pavement Maintenance Management Program | | | | | | | | | | |
|----------|--|------------------------|-------------------|------------------------|-----------------------------------|---------------------------|---------------------|--|--|--|--|
| Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility | FY of Completion | | | | |
| 23 Ave | N/S Pinnacle Peak Rd | S/S Happy Valley Rd | 0.5 | 1 | Partial Bike Lanes (W Side) | Full 4-6 Bike Lanes | 2021 | | | | |
| 27 Ave | N/S Agua Fria Frwy | N/S Rose Garden Ln | 0.25 | 0.5 | No Bike Lane | 4-6 Foot Bike Lane | 2021 | | | | |

CIP Program

| Location | То | From | Distance (mi.) | Bi- Direction al | Existing Facility | Post Facility | FY of Completion |
|--------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|---|---------------------|
| 40 St | S/O Pecos Rd | N/O Chandler Blvd | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | 2021 |
| Osborn Rd | W/O Black Canyon Frwy | E/O 19 Ave | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | 2021 |
| Paradise Ln | W/O 40 St | E/O 44 St | 0.5 | 1 | No Bike Lanes | 4-6 Foot Bike Lane | 2021 |
| Southern Ave | E/O 24 St | W/O 32 St | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | 2021 |
| Sweetwat er Ave | E/O 28th St | W/O 32nd St | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | 2021 |
| Yorkshire Dr | W/O 39 Ave | E/O 31 Ave | 0 | 0 | 4-6 Foot Bike Lane | Intersecti on Treatmen ts Needed | 2021 |
| 16 St | N/O Baseline Rd | S/O Southern Ave | 1 | 2 | None | 4-6 Foot Bike Lane | 2021 |
| 99 Ave | N/O Broadway Rd | N/O Lower Buckeye Rd | 0.77 | 1.54 | Partial Bike Lane | Complete 4-6 Foot Bike Lane | 2021 |
| 99 Ave | Mobile Ln (Cop Bndy) | N/O Broadway Rd | 0 | 0 | None | 4-6 Foot Bike Lane | 2021 |
| 99 Ave (E 1/2) | S/O Thomas Rd | N/O Indian School Rd | 1 | 2 | None | 4-6 Foot Bike Lane | 2021 |

| of of oletion | - | Post Facility | Existing Facility | Bi- Direction al | Distance (mi.) | From | То | Location |
|---------------|-----|-----------------------------------|----------------------|------------------------|-------------------|---|---|--|
| 021 | oot | Complete 4-6 Foot Bike Lane | Partial Bike Lane | 2.84 | 1.42 | 22 St / Rocky Slope Dr | Ray Rd / Rockledge Rd | Quarter Section 09-32/09- 33/010- 33 |
| 021 | oot | Complete 4-6 Foot Bike Lane | Partial Bike Lane | 0.98 | 0.49 | 47 Ave / 43 Ave | Yorkshire Dr / Beardsley Rd | Quarter Section 40-18/40- 17 |
| 021 | | 4-6 Foot Bike Lane | None | 0 | 0 | S/O Bell Rd | N/O Grandview Rd | 23 Ave |
| 021 | | 4-6 Foot Bike Lane | None | 0 | 0 | S/O Anthem Wy | N/O Opportunity Wy | 45 Ave |
| | | | | 11.86 | | Total New Bicycle Lanes | | |
| | | | | | | Total New Shared Lane Markings | | |
| | | | | | | Total New Protected Bicycle Lanes Total New Buffered Bicycle Lanes | | |
| | oot | Bike Lane | | 0 | 0 5.93 | S/O Anthem Wy Bicycle Lanes ane Markings Bicycle Lanes | N/O Opportunity Wy Total New Total New Shared L Total New Protected | 23 Ave 45 Ave |

APPENDIX F -FY2022

| | | | FY | ′2022 - Bicyc | le Master Pl | an | | | |
|------------------|---------------|----------------------|-------------|---------------|-------------------|--------------------|----------------------|----------------------|-------------------------|
| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | FY of Completio n |
| | | ReInventP | | | | | | | |
| | | нх | | | | | | 4-6 Foot | |
| | | Gateway | | | | | No Bike | Bike Lane | |
| 9 | BMP-09 | Van Buren | 24th Street | 44th Street | 2.5 | 5 | Lane | | 2022 |
| | | | Arizona | | | | | | |
| 12.1 | BMP-12A.A | 3rd Ave | Canal | Roma Ave | 0 | 0 | None | Bike HAWK | 2022 |
| | | | | | | | | 4-6 Foot | |
| | | Union Hills | | | | | | Bike Lane | |
| 21 | BMP-21B | Drive | 27th Ave | 23rd Ave | 0.5 | 1 | None | | 2022 |
| | | | | | | | | Extend Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21D | Drive | 51st Ave | | 0 | ا ا | Lanes | n | 2022 |
| 21 | DIVIF-ZID | DIIVE | JISLAVE | | 0 | 0 | Laries | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21E | Drive | 47th Ave | | 0 | 0 | Lanes | n | 2022 |
| | | | | | | | | C l- il | |
| | | Haira Hilla | | | | | Na Dile | Combined | |
| 21 | DMD 315 | Union Hills | 12rd Avo | | 0 | _ | No Bike | Bike Lane / | 2022 |
| 21 | BMP-21F | Drive | 43rd Ave | | U | 0 | Lanes | Turn Lane Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21G | Drive | 39th Ave | | 0 | 0 | Lanes | n | 2022 |
| | | | | | | | | Extend | |
| | | | | | | | | Bike Lanes | |
| | | Haira Hilla | | | | | Na Dile | to | |
| 21 | BMP-21H | Union Hills Drive | 35th Ave | | 0 | _ | No Bike Lanes | Intersectio | 2022 |
| 21 | DIVIP-ZIU | Drive | 33tii Ave | | U | 0 | Laries | n | 2022 |
| | | | | | | | | Combined | |
| | | Union Hills | | | | | No Bike | Bike Lane / | |
| 21 | BMP-21I | Drive | 19th Ave | | 0 | 0 | Lane WB | Turn Lane | 2022 |
| | | | | | | | | Extend | |
| | | | | | | | | Bike Lanes | |
| | | Hair a 199 | | | | | No Dile | to | |
| 24 | DN4D 341 | Union Hills | 15+h A | | • | _ | No Bike | Intersectio | 2022 |
| 21 | BMP-21J | Drive | 15th Ave | | 0 | 0 | Lanes | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21K | Drive | 7th Ave | | 0 | 0 | Lanes | n | 2022 |

| BMP Proj. | Segment | Location | То | From | Distance | Bi- | Existing | Post | FY of Completio |
|-----------|------------|-------------|----------------|------|----------|-------------|----------|----------------------|-----------------|
| No. | ID | 200011011 | .0 | 110 | (mi.) | Directional | Facility | Facility | n |
| | | | | | | | | Extend | |
| | | | | | | | | Bike Lanes | |
| | | Union Hills | Control | | | | No Bike | to Intersectio | |
| 21 | BMP-21L | Drive | Central Ave | | 0 | _ ر | Lanes | | 2022 |
| 21 | DIVIP-ZIL | Drive | Ave | | U | U | Laries | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21M | Drive | 7th St | | 0 | 0 | Lane EB | n | 2022 |
| | | | | | | | | Extend Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21N | Drive | 12th St | | 0 | ا ا | Lanes | n | 2022 |
| 21 | DIVIT ZIIV | DIIVC | 12(113(| | 0 | | Laries | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-210 | Drive | 16th St | | 0 | 0 | Lanes | n | 2022 |
| | | | | | | | | Extend Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21P | Drive | 17th Way | | 0 | _ ا | Lane EB | n | 2022 |
| 21 | DIVIF-Z1F | DIIVE | 17th Way | | 0 | 0 | Lane LD | 11 | 2022 |
| | | | Union Hills | | | | | Extend | |
| | | | Drive at | | | | | Bike Lanes | |
| | | | 20th St | | | | | to | |
| | | Union Hills | Intersectio | | | | No Bike | Intersectio | |
| 21 | BMP-21Q | Drive | n | | 0 | 0 | Lanes | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | Cave Creek | | | | No Bike | Intersectio | |
| 21 | BMP-21R | Drive | Rd | | 0 | l 0 | Lanes | n | 2022 |
| | DIVII ZIIX | Dilive | 1.0 | | | Ĭ | Larres | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21S | Drive | 28th St | | 0 | 0 | Lanes | n | 2022 |
| | | | | | | | | Combined | |
| | | Union Hills | | | | | No Bike | Bike Lane / | |
| 21 | BMP-21T | Drive | 32nd St | | 0 | n | Lane EB | Turn Lane | 2022 |
| | DIVII ZII | 51.100 | 32110 Jt | | 0 | | Lanc LD | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21U | Drive | 34th St | | 0 | 0 | Lanes | n | 2022 |

| BMP Proj. | Segment | Location | То | From | Distance | Bi- | Existing | Post | FY of Completio |
|-----------|-----------|-------------|-------------|----------|----------|-------------|-------------|----------------------|-----------------|
| No. | ID | | | | (mi.) | Directional | Facility | Facility | n . |
| | | | | | | | | Extend Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21V | Drive | 40th St | | 0 | ا ا | Lanes | n | 2022 |
| 21 | DIVII ZIV | DIIVC | 4011131 | | | | Laries | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Union Hills | | | | | No Bike | Intersectio | |
| 21 | BMP-21W | Drive | Tatum Blvd | N. 4 | 0 | 0 | Lanes | n | 2022 |
| 24 | DN4D 24C | 32nd | Hartford | Mountain | 4.67 | 0.24 | Nama | Bicycle | 2022 |
| 24 | BMP-24C | Street | Ave | View | 4.67 | 9.34 | None | Lane Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | 32nd | Grovers | | | | No Bike | Intersectio | |
| 24 | BMP-24E | Street | Ave | | 0 | 0 | Lane SB | n | 2022 |
| | | | | | | | | Extend | |
| | | | | | | | | Bike Lanes to | |
| | | | Michigan | | | | No Bike | Intersectio | |
| 24 | BMP-24F | 33rd Street | _ | | 0 | _ ا | Lane SB | n | 2022 |
| 24 | DIVII 241 | Join Jucet | AVC | | 0 | | Lanc 3b | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | | Union Hills | | | | No Bike | Intersectio | |
| 24 | BMP-24G | 34th Street | Dr | | 0 | 0 | Lane SB | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | | | | | | No Bike | Intersectio | |
| 24 | BMP-24H | 35th Street | Utopia Rd | | 0 | l 0 | Lanes | n | 2022 |
| | 2 | | o copia ita | | | | 201100 | Extend | |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | | | _ | | | | Intersectio | |
| 26 | BMP-26A | Roeser | 19th Ave | 15th Ave | 0 | 0 | Bike Route | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | | | | | | | Intersectio | |
| 26 | BMP-26A | Atlanta | 15th Ave | 7th Ave | 0 | 0 | Bike Route | n | 2022 |
| | | | | | | | | | |
| | | | | | | | B.1 | 4-6 Foot | |
| | | Glass II | Desert | | | | Bike Route | Bike Lane | |
| 24 | DN4D 24.0 | Chandler | Foothills | 3C+k C+ | 4.50 | 246 | with edge | Sinc Laire | 2022 |
| 31 | BMP-31C | Blvd | Pkwy | 26th St | 1.58 | 3.16 | line stripe | | 2022 |
| | | | | | | | | 4-6 Foot | |
| | | Chandler | | | | _ | | Bike Lane | |
| 31 | BMP-31D | Blvd | 26th St | I-10 | 3.27 | 6.54 | None | | 2022 |

| BMP Proj. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | FY of Completio n |
|-----------|---------------|------------------|-------------------|--------|----------------|--------------------|----------------------|------------------|-------------------------|
| | | | | | | | | Extend | |
| | | | | | | | | Bike Lanes | |
| | | Clara va alla va | Desert | | | | Na Dila | to | |
| 31 | BMP-31E | Chandler Blvd | Foothills Pkwy | | 0 | _ | No Bike Lanes | Intersectio | 2022 |
| - 31 | DIVIF-31L | Біча | FKVVy | | | 0 | Lanes | n | 2022 |
| | | Cave Creek | 7+h S+ / | | | | | 4-6 Foot | |
| 34 | BMP-34A | Road | | 8th St | 0.2 | 0.4 | None | Bike Lane | 2022 |
| 31 | DIVII 3-17 (| Nouu | Damap Na | Oth St | 0.2 | 0.4 | IVOITE | Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | N 5" | to | |
| 24 | DN4D 24E | Cave Creek | Hataban Dd | | | | No Bike Lanes | Intersectio | 2022 |
| 34 | BMP-34E | Road | Hatcher Rd | | 0 | <u> </u> | Lanes | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Cave Creek | | | | | No Bike | Intersectio | |
| 34 | BMP-34F | Road | View Rd | | 0 | 0 | Lanes | n Extend | 2022 |
| | | | | | | | | Bike Lanes | |
| | | | | | | | | to | |
| | | Cave Creek | | | | | No Bike | Intersectio | |
| 34 | BMP-34G | Road | Peoria Ave | | 0 | 0 | Lanes | n | 2022 |
| | | | | | | | | | |
| | | | | | | | | Through | |
| | | | | | | | | Bike lanes | |
| | | | Cactus Rd | | | | | with | |
| | | Cave Creek | /Thunderbi | | | | No Bike | intersectio | |
| 34 | BMP-34H | Road | rd Rd | | 0.2 | 0.4 | Lanes | n road diet | 2022 |
| | | Western | | 24th | | | | Shared | |
| 33 | BMP-33A | Canal | Central | Street | 2.5 | 5 | Not Paved | Use Path | 2022 |
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | Central | | | | | | | |
| | | Ave | | | | | | | |
| | | Intersecti | | | | | | Bike | |
| 33 | BMP-33J | on | | | 0 | 0 | None | HAWK | 2022 |
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | Jesse | | | | | | | |
| | | OwenPkw | | | | | | | |
| | | у | | | | | | | |
| | | Intersecti | | | | | | | |
| 33 | BMP-33K | on | | | 0 | 0 | None | Crosswalk | 2022 |
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | 7th St | | | | | | | |
| | | Intersecti | | | | | | Bike | |
| 33 | BMP-33L | on | | | 0 | 0 | None | HAWK | 2022 |

| BMP Proj. No. | Segment ID | Location | То | From | Distance (mi.) | Bi- Directional | Existing Facility | Post Facility | FY of Completio n |
|------------------|---------------|-------------------------|-------------|-------------|-------------------|--------------------|----------------------|------------------|-------------------------|
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | 10th St | | | | | | | |
| | | Intersecti | | | | | | | |
| 33 | BMP-33M | on | | | 0 | 0 | None | Crosswalk | 2022 |
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | 16th St | | | | | | | |
| | | Intersecti | | | | | | Bike | |
| 33 | BMP-33N | on | | | 0 | 0 | None | HAWK | 2022 |
| | | Western | | | | | | | |
| | | Canal at | | | | | | | |
| | | 24th St | | | | | | | |
| | | Intersecti | | | | | | Bike | |
| 33 | BMP-330 | on | | | 0 | 0 | None | HAWK | 2022 |
| | | Total New Bicycle Lanes | | | 12.92 | 25.84 | | | |
| | | To | otal New Sl | nared Lane | | | | | |
| | | Total N | lew Protect | ted Bicycle | | | | | |

Total New Buffered Bicycle