

Public Works Commission

ACTION CALENDAR December 10, 2019 (Continued from December 3, 2019)

To: Honorable Mayor and Members of the City Council

From: Public Works Commission

Submitted by: Ray Yep, Chair, Public Works Commission

Subject: Public Works Commission Recommendation for the Five-Year Paving Plan

# RECOMMENDATION

Adopt a resolution that recommends approval of the Five-Year Paving Plan for FY2020 to FY2024 as proposed by Staff and recommends the creation of a Long-Term Paving Master Plan.

# <u>SUMMARY</u>

This Report to Council is comprised of three sections:

- 1. Recommendations on the City's Proposed 5-Year Paving Plan
- 2. Report to Council on requested actions from 2017 and 2018
- Recommendation from the Public Works Commission (PWC) to address the ongoing paving condition deficit through the creation and implementation of a Long-Term Paving Master Plan.

The City of Berkeley's Street Rehabilitation and Repair Policy (Street Policy) requires that a 5-year paving plan be reviewed each year and adopted formally by the City Council, with advice from the PWC. The Rehabilitation Plan (commonly called the Paving Plan) for FY 2020 to FY 2024 has been reviewed by the PWC and it is recommending adoption of all five years of the plan.

At their meetings in December 2017 and 2018, City Council directed Staff to coordinate with the PWC on the items outlined in their motions. A progress report on the action items was submitted to Council on July 24, 2018. All of the action items have been worked on and this report highlights the status.

Berkeley's streets are in an "at-risk" condition, far from the City's target of having our streets in "good" condition, and continue to decline year on year. The PWC recommends that a master plan be prepared to understand the funding and resources needed to improve Berkeley's streets to a "good" condition.

# FISCAL IMPACTS OF RECOMMENDATION

This Paving Plan is based on the Adopted Biennial Budget for Fiscal Years 2020 & 2021, and on the following estimated available funding levels from all sources, including State Transportation (Gas) Tax, Measure B, Measure BB, Measure F, and the General Fund.

| Five-Year Paving Program Funding Sources by Year, in \$ |           |           |           |           |           |  |  |  |  |  |  |  |
|---------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|
| Fund Description                                        | FY 2020   | FY 2021   | FY 2022   | FY 2023   | FY 2024   |  |  |  |  |  |  |  |
| State Transportation Tax                                | 495,303   | 495,303   | 495,303   | 495,303   | 495,303   |  |  |  |  |  |  |  |
| State Transportation Tax –SB1                           | 1,500,000 | 1,700,000 | 1,700,000 | 2,000,000 | 2,000,000 |  |  |  |  |  |  |  |
| Measure B - Local Streets & Roads                       | 700,000   | 1,000,000 | 700,000   | 0         | 0         |  |  |  |  |  |  |  |
| Measure BB – Local Streets & Roads                      | 2,200,000 | 1,700,000 | 2,000,000 | 2,700,000 | 2,700,000 |  |  |  |  |  |  |  |
| Measure F Vehicle -Registration Fee                     | 155,000   | 155,000   | 155,000   | 155,000   | 155,000   |  |  |  |  |  |  |  |
| Capital Improvement Fund                                | 1,925,000 | 1,925,000 | 1,925,000 | 1,925,000 | 1,925,000 |  |  |  |  |  |  |  |
| TOTAL                                                   | 6,975,303 | 6,975,303 | 6,975,303 | 7,272,303 | 7,272,303 |  |  |  |  |  |  |  |

In addition to the City's program funding, additional grant and bond funding has been made available for paving in FY 2020 and 2021, summarized below.

| Other Funding for Paving by Year, in \$ |            |           |         |         |         |  |  |  |  |  |  |
|-----------------------------------------|------------|-----------|---------|---------|---------|--|--|--|--|--|--|
| Funding Source                          | FY 2020    | FY 2021   | FY 2022 | FY 2023 | FY 2024 |  |  |  |  |  |  |
| Measure T1 approved                     | 7,500,000  | 1,000,000 | 0       | 0       | 0       |  |  |  |  |  |  |
| Grants                                  | 2,777,000  | 1,200,000 | 0       | 0       | 0       |  |  |  |  |  |  |
| TOTAL                                   | 10,277,000 | 2,200,000 | 0       | 0       | 0       |  |  |  |  |  |  |

The PWC is recommending the preparation of a Long-Term Paving Master Plan. This is currently not budgeted and a request to fund the work needs to be prepared and submitted.

# CURRENT SITUATION AND ITS EFFECTS

In December 2017 and 2018, the PWC made recommendations on the 5-year paving plan and provided a detailed analysis of Berkeley's street condition in our reports to Council. Based on the city-wide Pavement Condition Index (PCI), Berkeley's streets continue to be evaluated as "at risk," and do not meet the City's target to be in "good" condition. Council requested certain analysis and action be taken.

This report addresses the following topics:

- 1. Recommendations on the City's Proposed 5-Year Paving Plan
- 2. Report to Council on requested actions from 2017 and 2018

3. Recommendation from the Public Works Commission (PWC) to address the ongoing paving condition deficit through the creation and implementation of a Long-Term Paving Master Plan.

## Review of 5-year Paving Plan

A significant amount of street paving was done in the summer of 2019. This includes the paving delayed from 2018, the paving approved for 2019, and paving the Panoramic Hill area.

Staff prepared a list of paving projects for the new 5-year planning period (FY 2020 – 2024). This was prepared using guidance from Berkeley's Street Rehabilitation Policy, StreetSaver program analysis, knowledge of what has been accomplished in recent years, and available funding. The proposed plan is summarized as follows.

|                         | FY2020  | FY2021  | FY2022  | FY2023  | FY2024  | Total     | % of<br>Total |
|-------------------------|---------|---------|---------|---------|---------|-----------|---------------|
| Square Footage of       |         |         |         |         |         |           |               |
| Paving                  |         |         |         |         |         |           |               |
| Arterials, sq. ft.      | 84,360  | 0       | 77,580  | 6,600   | 0       | 168,540   | 6             |
| Collectors, sq. ft.     | 400,480 | 6,900   | 58,810  | 63,250  | 163,170 | 754,710   | 26            |
| Residential, sq. ft.    | 284,758 | 477,584 | 474,528 | 366,739 | 365,668 | 1,969,277 | 68            |
| Total sq. ft.           | 769,598 | 546,584 | 610,918 | 436,589 | 528,838 | 2,892,527 | 100           |
| <u>Miles</u>            |         |         |         |         |         |           |               |
| Arterials, miles        | 0.32    | 0.00    | 0.41    | 0.04    | 0.00    | 0.77      | 5             |
| Collectors, miles       | 1.77    | 0.51    | 0.23    | 0.62    | 0.81    | 3.94      | 24            |
| Residential, miles      | 1.58    | 3.33    | 2.39    | 2.17    | 1.93    | 11.40     | 71            |
| Total miles             | 3.67    | 3.84    | 3.03    | 2.83    | 2.74    | 16.11     | 100           |
| Cost                    |         |         |         |         |         |           |               |
| Arterials, \$millions   | \$0     | \$0     | \$0.896 | \$0.078 | \$0     | \$0.974   | 3             |
| Collectors, \$millions  | \$2.521 | \$0.881 | \$0.956 | \$1.290 | \$1.946 | \$7.594   | 24            |
| Residential, \$millions | \$3.744 | \$5.041 | \$2.996 | \$3.252 | \$3.957 | \$18.990  | 60            |
| Discretionary,          | \$0     | \$1.046 | \$1.046 | \$1.091 | \$1.091 | \$4.274   | 13            |
| \$millions              |         |         |         |         |         |           |               |
| Total cost, \$millions  | \$6.265 | \$6.968 | \$5.894 | \$5.711 | \$6.994 | \$31.832  | 100           |

The above summary does not include \$7.5 million in FY 2020, and \$1 million in FY 2021 from Measure T1 funding. It also does not include \$3.98 million in grant funding in FY2020 and FY2021.

The PWC paving subcommittee discussed the plan with Public Works Department staff and we have the following comments.

1. The Paving Plan uses asphalt paving technology. As such, the plan is not contributing to reducing greenhouse gas emissions. The PWC encourages staff to use greener and more sustainable technologies to help meet our climate action

goals. One suggestion is to start calling this a "street surface treatment plan" and not paving plan.

- 2. Staff prepared a process flow diagram that describes the inputs used to prepare the 5-year paving plan. This document provides a high-level overview of all the work that staff puts into the development of the paving plan and it has been very informative for the PWC. This has been included as Attachment 3 to this report for Council's review.
- 3. Many of the City's streets with the lowest PCI are residential streets. The proposed plan by staff shifts more focus of the paving plan to residential streets. While this is outside of the City's Paving Policy for allocation of paving funds by street type, this plan helps address the roads that are in the greatest need and will do the most to improve the City-wide average PCI. The PWC believes that on a long-term basis, the Paving Policy is still valid to prioritize funding for arterials, collectors, bike routes, and bus routes. The following is a breakdown as compared to the Paving Policy:

|                     | Cost Breakdown<br>Per Paving Policy | Cost Breakdown<br>Per 5-Year Paving Plan<br>(FY2020-2024) |
|---------------------|-------------------------------------|-----------------------------------------------------------|
| Arterial streets    | 10%                                 | 3%                                                        |
| Collector streets   | 50%                                 | 24%                                                       |
| Residential streets | 25%                                 | 60%                                                       |
| Discretionary       | 15%                                 | 13%                                                       |

- 4. The plan was reviewed with the City of Berkeley's Bicycle Plan 2017. Of the total length of streets to be paved, 5.8 miles (36%) are current or future bike routes. However, of those 5.8 miles, 1.6 miles (27%) are on Hopkins or Cedar and just doing the pavement does not bring the streets to the requirements of the Berkeley Bicycle Plan. To complete the bikeways on these streets, additional funding is needed from the Transportation Division and a project is needed prior to paving beginning on these streets. The plan was also reviewed with the Transportation Commission and with their concerns about bike routes.
- 5. The PWC has reviewed the plan for contiguous streets and that the work is bundled for cost effective implementation. This is balanced with having the paving work be spread across all Council Districts of the City. Over the 5-year Paving Plan, the cost is distributed between 7% to 16% for each District.
- 6. The PWC agrees with including the streets that were approved under Phase 1 of Measure T1. However, the PWC recommends that bond funds be used only for work that will last for at least as long as the duration of the bond repayment period (this would be 40 years in the case of projects funded by Measure T-1 bond proceeds). Road treatments that match this recommendation only include full street reconstruction work, as other standard maintenance may extend the life of these assets beyond the duration of the bond repayment period. Maintenance work, such

as overlays, cape and slurry seals, should be funded from the Paving Program funds or the General Fund.

- Specific attention should be given to the Adeline Corridor Specific Plan and its proposed changes to the street alignment. The street will be repaved using Measure T1 funds. This means that changes to the street may occur before the debt financing is paid off.
- The PWC agrees that 15% of the available funding should be reserved for discretionary and/or demonstration projects. The PWC is in the process of developing a recommendation for criteria to help prioritize projects to be funded with the discretionary reserve.

# Progress with Council Requested Actions

At their meetings in December 2017 and 2018, City Council directed Staff to coordinate with the PWC on the items outlined in their motions. A progress report on the action items was submitted to Council on July 24, 2018. Progress continues to be made on the action items and we would like to highlight the following.

- <u>Use of life cycle cost analysis</u> The City received a grant from the Metropolitan Transportation Commission (MTC) for technical assistance to evaluate life cycle cost analysis for street paving technologies. The MTC has retained Pavement Engineering Inc. (PEI) to conduct the analysis. The PWC paving sub-committee is working closely with PEI and staff on the study. The study will evaluate the life cycle cost of asphalt and alternative technologies, including permeable pavement, and will consider multiple benefits from each. These benefits, called externalities, include considerations for attenuating storm water peak flows, improving water quality, reducing traffic speeds, enhanced public safety, and reducing greenhouse gas emissions. PEI's analysis is projected to be completed in fall 2019.
- <u>Use of 15% discretionary and demonstration funds</u> The PWC paving subcommittee is working with staff to identify potential sites for permeable pavement projects or alternative durable pavement technologies. We are developing a matrix of criteria and candidate locations. The criteria include current condition, soil permeability, constructability, location attributes, life cycle cost analysis, and other factors. An allocation of 15% discretionary and demonstration funds has been included in FY2021-2024.
- Work with consultants who have experience with long-lasting innovative technologies – The City retained several new on-call civil engineering consultants in 2018. The consultants include Bellecci and Associates, Harrison Engineering Inc., Pavement Engineering Inc., and Mark Thomas Company. All of these firms have demonstrated experience with long-lasting innovative and green infrastructure.
- 4. <u>Report to Council on funding sources for scheduled and completed paving</u> A report to Council was made on September 10, 2019 on the breakdown of paving costs.

- 5. <u>Annual report to Council on Measure M</u> The Public Works Department staff will prepare a report on the performance of Measure M at the completion of the 2019 paving season and the completion of the Woolsey Street stormwater cistern project.
- <u>Consult with Transportation Commission</u> Members from the Transportation Commission have participated at the PWC's paving sub-committee meetings and a presentation of the 5-year paving plan was given to the Transportation Commission on June 20, 2019.

# Master Plan to Improve the Condition of Berkeley's Streets

The current citywide average PCI is 58 on a scale of 100, and is firmly in the "at risk," category. Streets in this category tend to degrade at a more accelerated rate than those in a "good" or "fair" condition. Under the proposed paving plan, the PCI is estimated to dip to 52 by 2023. This is far from the City's target of having our streets in "good" condition (PCI of 70 -79), and it is clear that action is needed to reverse this trend before our road fall into "failing" condition. Below is a summary of the current conditions of Berkeley's streets by road type. This information was prepared by staff and PEI.

| Section/Area        | PCI in 2019 |
|---------------------|-------------|
| Overall system      | 58          |
| Arterial streets    | 66          |
| Collector streets   | 64          |
| Residential streets | 55          |
| Bus routes          | 66          |
| Bike lanes          | 62          |

The PWC recommends that a master plan be prepared to understand the funding and resources needed to improve Berkeley's streets to a "good" condition. The master plan should represent street paving priorities that align with the values of the city and should consider the following:

- <u>Update the Street Policy</u> The policy was last updated in 2009. The policy should be reviewed and updated to incorporate current thinking about using life cycle cost analysis, Vision Zero, equity, sustainable multi-benefit technologies, the Bicycle Plan recommendations, Climate Action Plan, Resilience Strategy, Local Hazard Mitigation Plan, and other factors. With these considerations in mind, the updated policy should include new performance metrics that capture the diverse objectives the City holds for our road network.
- <u>A long-term paving capital plan</u> The Master Plan should include a 40-year paving or road surfacing plan to help the City identify the most efficient path to move the current PCI from "at risk" to "good." This approach spans two cycles of typical asphalt roads expected useful life, and allows for decisions on street surfacing to be

optimized for the greatest bang for our buck over the full life of our assets, rather than the current short-term approach.

- 3. Equity -- The City's Street Policy calls for street paving to be equitably allocated among the City's nine districts. This is a worthy goal; however, the policy stops there and does not provide a clear method for how to evaluate equity. Should it be measured by dollars spent, miles paved, miles treated, the average PCI in a district, and should this equity be for each year of the paving plan over the full five years of the paving plan, or measured retrospectively? The Master Plan will propose a more definitive metric that will provide a clear directive to staff moving forward and provide the community with enhanced transparency in the City's paving decisions.
- 4. <u>Financing Strategy</u> -- Lack of funding for street paving plays a major role in the overall condition of the City's streets. As part of the Master Plan, the work should include a long-term funding gap analysis, a financial plan to address the funding gap, a cost-of-service rate study to develop recommended rates needed to sustainably finance the Paving Program, and an impact fee analysis to allow the City to recoup the cost of accelerated wear on our roads imposed by heavy vehicles. We also recommend the master plan include an evaluation of grant funding opportunities.
- 5. <u>Public Engagement</u> -- Public feedback is critical to the successful implementation of any City Plan. The Master Plan should provide guidance for public engagement strategies that will allow the collection and synthesis of public feedback regarding the future of the City streets.

The recommendation to approve both the 5-year paving plan and the recommendation for a Paving Master Plan and to forward it to Council was discussed by the Public Works Commission at its July 11, 2019 meeting.

Action: M/S/C (Schueler/Dominguez)

Vote: (8 Ayes: Yep, Schueler, Dominguez, Hitchen, Constantine, Krpata, Erbe, Freiberg; 0 Noes; 1 Absent: McGrath; 0 Abstain)

# ENVIRONMENTAL SUSTAINABILITY

Permeable pavers provide a way of reducing the volume of storm water entering the City storm drain system; improving the quality of urban runoff from the roadway that is conveyed to local creeks and the Bay; and reducing greenhouse gas emissions by installing a durable product that requires less maintenance than traditional asphalt concrete.

Full Depth Reclamation (FDR), a cost-effective alternative to traditional street reconstruction methods, is planned for use in several of the streets selected for rehabilitation. It recycles much of the existing pavement on site, and incorporates it into the pavement subgrade, thereby reducing truck trips to and from construction sites.

In addition, the Paving Plan includes repair of the City's deteriorating storm drain infrastructure that minimizes degradation of water quality in local creeks and the Bay. These repairs are consistent with the City of Berkeley's 2011 Watershed Management Plan. Furthermore, the Paving Plan also proposes approximately 5.8 miles of improvements to bicycle routes, and improvements to sidewalk and curb ramps adopted from the Bicycle and Pedestrian Plans. These steps result in lower emissions of greenhouse gases into the environment, which is consistent with the goals of the 2009 Berkeley Climate Action Plan.

# RATIONALE FOR RECOMMENDATION

It is the policy of the City of Berkeley that there shall be a Five-year Street Rehabilitation Plan for the entire City to be adopted by the City Council. Further, the proposed plan provides for much needed street infrastructure improvements that are consistent with the City's Street Policy.

ALTERNATIVE ACTIONS CONSIDERED None

<u>CITY MANAGER REPORT</u> See companion report.

CONTACT PERSON

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Attachments:

- 1. Resolution
- Exhibit A: Five-Year Street Rehabilitation Plan Update to Council, July 24, 2018 2. 5-Year Paving Plan Process Flow Diagram

# Attachment 1

# RESOLUTION NO. ##,###-N.S.

# APPROVAL OF THE FIVE-YEAR PAVING PLAN FOR FY 2020 TO FY2024 AND RECOMMENDATION FOR THE CREATION OF A LONG-TERM PAVING MASTER PLAN

WHEREAS, the Street Rehabilitation Policy, Resolution No. 55,384-N.S. approved on May 22, 1990, requires there be a Five-Year Street Paving Plan for the entire City to be adopted by the City Council, and

WHEREAS, the City Council requests advice from the Public Works Commission on the Five-Year Paving Plan; and

WHEREAS, on July 11, 2019, the Public Works Commission voted to approve submitting the FY 2020 to FY2024 Five-year Paving Plan to City Council, attached as Exhibit A;

WHEREAS, the condition of Berkeley's streets are at an "at risk" condition and a longterm strategy is needed to improve the condition to the "good" level,

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the FY 2020 to FY2024 Five-Year Paving Plan attached as Exhibit A hereof and the request to create a long-term paving master plan, are hereby adopted.

Exhibit A: Five-Year Paving Plan for FY2020 to FY2024

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#### EXHIBIT A 5-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

| Fiscal<br>Year | Street ID | Section ID | Street Name       | From              | То                    | Class | Treatment<br>(from | Updated Total<br>Cost | District | Р    | Mileage | Current<br>PCI | Last M&R   |          | Last Paved                 |
|----------------|-----------|------------|-------------------|-------------------|-----------------------|-------|--------------------|-----------------------|----------|------|---------|----------------|------------|----------|----------------------------|
| 0000           | 221100    |            | CEDAD ST          | CTH CT            |                       | 6     | Becentruct         | <b>*</b> 4 000 000    | 4        | 20*  | 0.04    | 27             | Date       | Last M&R |                            |
| 2020           | 321100    | 30         | GEDAR 31          | 0111-31           | SAIN PADLO AVE        | C     | Reconstruct        | \$ 1,239,036          | 1        | 30." | 0.31    | 21             | 10/1/1994  | 0-       | WILL AND OVERLAT W/FABRIC  |
| 2020           | 320685    | 10         | MARINA BLVD       | SPINNAKER WAY     | UNIVERSITY AVE        | С     | Heavy Mtce         |                       | 1        | N    | 0.43    | 58             | 9/1/1986   | A - AC   | OVERLAY                    |
| 2020           | 735382    | 60         | MILVIA ST         | BLAKE ST          | RUSSELL ST            | R     | Heavy Rehab        | \$ 764,300            | 3        | 3E   | 0.44    | 28             | 9/1/1993   | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2020           | 516492    | 75         | ROSE ST           | LE ROY AVE        | LA LOMA AVE           | R     | Reconstruct        | \$ 205,000            | 6        | N    | 0.14    | 0              |            | A - AC   |                            |
| 2020           | 319525    | 35         | SANTA FE AVE      | GILMAN ST         | CORNELL AVE & PAGE    | R     | Heavy Rehab        | \$ 409,600            | 1        | 3C*  | 0.27    | 49             | 7/1/1995   | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2020           | 319525    | 30         | SANTA FE AVE      | NORTH CITY LIMIT  | GILMAN ST             | R     | Light Mtce         | \$ 37,355             | 1        | 3C*  | 0.11    | 60             | 8/31/2004  | 0 -      | MILL AND THIN OVERLAY      |
| 2020           | 115532    | 77         | SHASTA RD         | GRIZZLY PEAK BLVD | PARK GATE             | С     | Heavy Rehab        | \$ 86,667             | 6        | N    | 0.05    | 14             | 11/1/1988  | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2020           | 115532    | 79         | SHASTA RD         | PARK GATE         | EAST CITY LIMIT (GOLF | С     | Reconstruct        | \$ 234,789            | 6        | N    | 0.11    | 10             | 11/1/1988  | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2020           | 320686    | 10         | SPINNAKER WAY     | BREAKWATER DR     | MARINA BLVD           | R     | Reconstruct        | \$ 1,000,000          | 1        | N    | 0.28    | 24             | 8/1/1991   | A - AC   | OVERLAY                    |
| 2020           | 213386    | 22         | MONTEREY AVE      | THE ALAMEDA       | HOPKINS ST            | С     | Heavy Rehab        | \$ 960,667            | 5        | 2A   | 0.57    | 54             | 11/30/2011 | A - AC   | MILL AND OVERLAY           |
| 2020           | 933653    | 40         | WARD ST           | SAN PABLO AVE     | ACTON ST              | R     | Reconstruct        | \$ 1,328,400          | 2        | N    | 0.31    | 20             | 9/1/1991   | A - AC   | MILL AND OVERLAY W/FABRIC  |
| 2020           | 320620    | 15         | UNIVERSITY AVE    | MARINA BLVD       | WEST FRONTAGE RD      | С     | Reconstruct        |                       | 1, 2     | N    | 0.30    | 0              | 12/1/1989  | A - AC   | OVERLAY                    |
| 2020           | 729533    | 55         | SHATTUCK AVE      | CENTER ST         | ALLSTON WAY           | Α     | Reconstruct        |                       | 4        |      | 0.06    | 2              | 7/1/1994   | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2020           | 729533    | 57         | SHATTUCK AVE (SB) | CENTER ST         | UNIVERSITY AVE        | Α     | Reconstruct        |                       | 4        |      | 0.13    | 12             | 7/1/1994   | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2020           | 729007    | 64         | ADDISON ST        | SHATTUCK AVE      | SHATTUCK AVE          | R     | Heavy Rehab        |                       | 4        |      | 0.03    |                |            |          |                            |
| 2020           | 729051    | 52         | BERKELEY SQUARE   | ADDISON ST        | CENTER ST             | Α     | Heavy Rehab        |                       | 4        |      | 0.06    |                |            |          |                            |
| 2020           | 729535    | 50         | SHATTUCK SQUARE   | UNIVERSITY AVE    | ADDISON               | Α     | Heavy Rehab        |                       | 4        |      | 0.07    | 28             | 7/1/1994   | 0 -      | MILL AND OVERLAY W/FABRIC  |
|                |           |            |                   |                   |                       |       |                    | \$ 6,265,814          |          |      | 3.69    |                |            |          |                            |

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#### EXHIBIT A 5-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

| Fiscal<br>Year | Street ID | Section ID | Street Name       | From               | То                | Class | Treatment<br>(from<br>StreetSaver) | U  | pdated Total<br>Cost | District | Ρ         | Mileage | Current<br>PCI | Last M&R<br>Date | Last M&R | Last Paved                 |
|----------------|-----------|------------|-------------------|--------------------|-------------------|-------|------------------------------------|----|----------------------|----------|-----------|---------|----------------|------------------|----------|----------------------------|
| 2021           | 940005    | 70         | ACTON ST          | ASHBY ST           | 66TH ST           | R     | Light Mtce                         | \$ | 83,640               | 2        | N         | 0.23    | 60             | 8/29/2007        | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 516020    | 30         | ARCADE AVE        | GRIZZLY PEAK BLVD  | FAIRLAWN DR       | R     | Heavy Rehab                        | \$ | 63,378               | 6        | N         | 0.06    | 7              | 6/1/1995         | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 628042    | 78         | BANCROFT WAY      | BOWDITCH ST        | COLLEGE AVE       | С     | Heavy Mtce                         | \$ | 161,036              | 7        | 3C*       | 0.13    | 62             | 12/1/1990        | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 627042    | 80         | BANCROFT WAY      | COLLEGE AVE        | PIEDMONT AVE      | С     | Heavy Rehab                        | \$ | 254,076              | 7        | 3C*       | 0.13    | 57             | 12/1/1990        | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 829102    | 60         | CENTER ST         | MARTIN LUTHER KING | MILVIA ST         | R     | Heavy Rehab                        | \$ | 315,645              | 4        |           | 0.13    | 59             | 7/1/1991         | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2021           | 729102    | 63         | CENTER ST         | MILVIA ST          | SHATTUCK          | R     | Heavy Rehab                        | \$ | 564,000              | 4        | 2A*       | 0.13    | 72             | 7/1/1991         | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2021           | 111127    | 10         | CRESTON RD        | GRIZZLY PEAK BLVD  | SUNSET LANE       | R     | Heavy Mtce                         | \$ | 93,378               | 6        | N         | 0.36    | 67             | 6/1/1995         | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 115127    | 20         | CRESTON RD        | SUNSET LANE        | GRIZZLY PEAK BLVD | R     | Heavy Mtce                         | \$ | 116,258              | 6        | N         | 0.36    | 64             | 11/1/1988        | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2021           | 728140    | 50         | DANA ST           | BANCROFT WAY       | DWIGHT WAY        | R     | Heavy Rehab                        | \$ | 467,400              | 7        | 2A to 2B* | 0.25    | 51             | 12/1/1989        | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 739141    | 70         | DEAKIN ST         | ASHBY AVE          | PRINCE ST         | R     | Light Mtce                         | \$ | 45,920               | 3        | N         | 0.16    | 76             | 4/3/2008         | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 736141    | 68         | DEAKIN ST         | RUSSELL ST         | ASHBY AVE         | R     | Light Rehab                        | \$ | 109,200              | 3        | N         | 0.10    | 57             | 7/1/1988         | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 940148    | 70         | DOHR ST           | ASHBY AVE          | PRINCE ST         | R     | Heavy Rehab                        | \$ | 176,569              | 2        | N         | 0.14    | 53             | 10/1/1992        | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 115344    | 80         | LATHAM LANE       | MILLER AVE         | GRIZZLY PEAK      | R     | Heavy Mtce                         | \$ | 38,500               | 6        | N         | 0.10    | 61             | 6/1/1994         | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 115380    | 70         | MILLER AVE        | HILLDALE AVE       | SHASTA RD         | R     | Light Rehab                        | \$ | 425,880              | 6        | N         | 0.66    | 58             | 6/1/1994         | A - AC   | RECONSTRUCT STRUCTURE (AC) |
| 2021           | 830491    | 58         | ROOSEVELT AVE     | CHANNING WAY       | DWIGHT WAY        | R     | Light Rehab                        | \$ | 172,480              | 4        | N         | 0.13    | 65             | 12/1/1989        | A - AC   | RECONSTRUCT SURFACE (AC)   |
| 2021           | 728584    | 50         | TELEGRAPH AVE     | BANCROFT WAY       | DWIGHT WAY        | С     | Heavy Rehab                        | \$ | 473,060              | 7        | 3C*       | 0.25    | 52             | 7/1/1988         | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 931657    | 55         | WEST ST           | BANCROFT WAY       | DWIGHT WAY        | R     | Heavy Mtce                         | \$ | 263,822              | 2        | N         | 0.25    | 65             | 10/1/1994        | 0 -      | MILL AND OVERLAY W/FABRIC  |
| 2021           | 320528    | 47         | 2ND ST            | DELAWARE ST        | HEARST AVE        | R     | Reconstruct                        | \$ | 775,833              | 1        | N         | 0.09    | 2              | NA               |          |                            |
| 2021           | 320528    | 48         | 2ND ST            | HEARST AVE         | UNIVERSITY AVE    | R     | Heavy Rehab                        | \$ | 762,222              | 1        | N         | 0.09    | 46             | NA               |          |                            |
| 2021           | 920528    | 50         | 2ND ST            | UNIVERSITY AVE     | ADDISON ST        | R     | Heavy Rehab                        | \$ | 560,000              | 2        | N         | 0.09    | 0              | 8/27/1997        |          | MILL AND OVERLAY W/FABRIC  |
| 2021           |           |            | 15% DISCRETIONARY |                    |                   |       |                                    | \$ | 1,046,295            |          |           |         |                |                  |          |                            |
|                |           |            |                   |                    |                   |       |                                    | \$ | 6,968,593            |          |           | 3.84    |                |                  |          |                            |

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#### EXHIBIT A 5-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

| Fiscal<br>Year | Street ID | Section ID | Street Name       | From         | То               | Class | Treatment<br>(from<br>StreetSaver) | Updated Total<br>Cost | District | Ρ   | Mileage | Current<br>PCI | Last M&R<br>Date | Last M&R | Last Paved                   |
|----------------|-----------|------------|-------------------|--------------|------------------|-------|------------------------------------|-----------------------|----------|-----|---------|----------------|------------------|----------|------------------------------|
| 2022           | 931073    | 50         | BROWNING ST       | ADDISON ST   | DWIGHT WAY       | R     | Heavy Rehab                        | \$ 911,600            | 2        | N   | 0.50    | 63             | 10/1/1995        | 0 -      | MILL AND OVERLAY W/FABRIC    |
| 2022           | 638115    | 70         | COLLEGE AVE       | ASHBY AVE    | SOUTH CITY LIMIT | А     | Heavy Rehab                        | \$ 896,480            | 8        | N   | 0.41    | 51             | 8/23/2000        | A - AC   | RECONSTRUCT STRUCTURE (AC)   |
| 2022           | 729152    | 60         | DURANT AVE        | MILVIA ST    | SHATTUCK AVE     | С     | Reconstruct                        | \$ 693,355            | 4        | N   | 0.13    | 0              | 11/1/1992        | 0 -      | MILL AND OVERLAY W/FABRIC    |
| 2022           | 729152    | 64         | DURANT AVE        | SHATTUCK AVE | FULTON ST        | С     | Heavy Rehab                        | \$ 262,880            | 4        | N   | 0.10    | 28             | 8/12/1997        | 0 -      | MILL AND OVERLAY W/FABRIC    |
| 2022           | 728180    | 50         | ELLSWORTH ST      | BANCROFT WAY | DWIGHT WAY       | R     | Reconstruct                        | \$ 422,400            | 7        | N   | 0.25    | 20             | 11/1/1992        | 0 -      | MILL AND OVERLAY W/FABRIC    |
| 2022           | 736180    | 60         | ELLSWORTH ST      | DWIGHT WAY   | WARD ST          | R     | Light Mtce                         | \$ 129,360            | 7        | N   | 0.38    | 83             | 5/11/2011        | A - AC   | RECONSTRUCT SURFACE (AC)     |
| 2022           | 736180    | 65         | ELLSWORTH ST      | WARD ST      | ASHBY AVE        | R     | Light Mtce                         | \$ 99,307             | 3        | N   | 0.29    | 87             | 5/11/2011        | A - AC   | RECONSTRUCT SURFACE (AC)     |
| 2022           | 736227    | 60         | FULTON ST         | DWIGHT WAY   | BLAKE ST         | R     | Heavy Mtce                         | \$ 76,128             | 3        | 3E* | 0.06    | 61             | 6/1/1993         | 0 -      | MEDIUM AC OVERLAY (2 INCHES) |
| 2022           | 736227    | 61         | FULTON ST         | BLAKE ST     | PARKER ST        | R     | Heavy Mtce                         | \$ 27,840             | 3        | 3E* | 0.07    |                |                  |          |                              |
| 2022           | 736227    | 63         | FULTON ST         | PARKER ST    | STUART ST        | R     | Heavy Mtce                         | \$ 321,592            | 3        | 3E* | 0.25    | 61             | 2/1/1992         | 0 -      | THIN AC OVERLAY(1.5 INCHES)  |
| 2022           | 835431    | 65         | OTIS ST           | RUSSELL ST   | ASHBY AVE        | R     | Heavy Rehab                        | \$ 224,000            | 3        | N   | 0.13    | 61             | 4/1/2001         | A - AC   | RECONSTRUCT STRUCTURE (AC)   |
| 2022           | 736561    | 70         | STUART ST         | FULTON ST    | HILLEGASS AVE    | R     | Heavy Rehab                        | \$ 784,000            | 7        | N   | 0.46    | 54             | 11/13/1998       | A - AC   | RECONSTRUCT STRUCTURE (AC)   |
| 2022           |           |            | 15% DISCRETIONARY |              |                  |       |                                    | \$ 1,046,295          |          |     |         |                |                  |          |                              |
|                |           |            |                   |              |                  |       |                                    | \$ 5,895,237          |          |     | 3.03    |                |                  |          |                              |

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#### EXHIBIT A 5-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

| Fiscal<br>Year | Street ID | Section ID | Street Name       | From            | То              | Class | Treatment<br>(from<br>StreetSaver) | nt Updated Total District P Mileage Current Last M&R<br>er) Cost Last M&R Last M&R |           | Last Paved |       |      |    |            |        |                            |
|----------------|-----------|------------|-------------------|-----------------|-----------------|-------|------------------------------------|------------------------------------------------------------------------------------|-----------|------------|-------|------|----|------------|--------|----------------------------|
| 2023           | 729042    | 65         | BANCROFT WAY      | SHATTUCK AVE    | FULTON ST       | С     | Heavy Rehab                        | \$                                                                                 | 277,778   | 4          | 4*    | 0.09 | 32 | 8/7/1997   | 0 -    | MILL AND OVERLAY W/FABRIC  |
| 2023           | 729042    | 60         | BANCROFT WAY      | MILVIA WAY      | SHATTUCK AVE    | С     | Heavy Rehab                        | \$                                                                                 | 359,836   | 4          | N     | 0.13 | 28 | 12/1/1989  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 736140    | 65         | DANA ST           | BLAKE ST        | WARD ST         | R     | Light Rehab                        | \$                                                                                 | 454,080   | 7          | 3E*   | 0.25 | 45 | 7/30/2008  | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 739186    | 60         | EMERSON ST        | ADELINE ST      | SHATTUCK AVE    | R     | Light Rehab                        | \$                                                                                 | 180,320   | 3          | N     | 0.15 | 65 | 4/1/2001   | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 839191    | 60         | ESSEX ST          | ADELINE ST      | TREMONT ST      | R     | Heavy Mtce                         | \$                                                                                 | 76,160    | 3          | N     | 0.06 | 76 | 4/1/2001   | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 739191    | 62         | ESSEX ST          | TREMONT ST      | SHATTUCK AVE    | R     | Light Rehab                        | \$                                                                                 | 129,920   | 3          | N     | 0.11 | 62 | 4/1/2001   | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 637217    | 80         | FOREST AVE        | COLLEGE AVE     | CLAREMONT BLVD  | R     | Heavy Rehab                        | \$                                                                                 | 600,000   | 8          | N     | 0.36 | 50 | 8/1/1996   | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 516340    | 36         | LA LOMA AVE       | ROSE ST         | BUENA VISTA WAY | С     | Heavy Rehab                        | \$                                                                                 | 248,827   | 6          | N     | 0.16 | 36 | 6/1/1995   | 0 -    | MILL AND OVERLAY W/FABRIC  |
| 2023           | 516340    | 38         | LA LOMA AVE       | BUENA VISTA WAY | CEDAR ST        | С     | Heavy Rehab                        | \$                                                                                 | 221,340   | 6          | N     | 0.14 | 51 | 6/1/1995   | 0 -    | MILL AND OVERLAY W/FABRIC  |
| 2023           | 834371    | 65         | MC GEE AVE        | DERBY ST        | RUSSELL ST      | R     | Light Rehab                        | \$                                                                                 | 461,992   | 3          | Ν     | 0.25 | 60 | 12/10/1998 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 834371    | 60         | MC GEE AVE        | DWIGHT WAY      | DERBY ST        | R     | Light Rehab                        | \$                                                                                 | 302,400   | 3          | N     | 0.26 | 59 | 7/1/1988   | 0 -    | THIN OVERLAY w/FABRIC      |
| 2023           | 319293    | 47         | HOPKINS ST        | GILMAN ST       | SACRAMENTO ST   | R     | Heavy Rehab                        | \$                                                                                 | 203,942   | 5          | 3A, C | 0.10 | 0  | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 213293    | 50         | HOPKINS ST        | HOPKINS CT      | MONTEREY AVE    | С     | Light Rehab                        | \$                                                                                 | 75,193    | 5          | 3A, C | 0.05 | 54 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 213293    | 52         | HOPKINS ST        | MONTEREY AVE    | MC GEE AVE      | С     | Heavy Rehab                        | \$                                                                                 | 107,167   | 5          | 2A, C | 0.05 | 71 | 12/1/1989  |        | RECONSTRUCT STRUCTURE (AC) |
| 2023           | 319293    | 45         | HOPKINS ST        | NORTHSIDE AVE   | PERALTA AVE     | R     | Light Mtce                         | \$                                                                                 | 233,587   | 1          | N     | 0.10 | 78 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 319293    | 46         | HOPKINS ST        | PERALTA AVE     | GILMAN ST       | R     | Heavy Mtce                         | \$                                                                                 | 433,031   | 1, 5       | N     | 0.27 | 64 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 319293    | 49         | HOPKINS ST        | SACRAMENTO ST   | HOPKINS CT      | Α     | Heavy Rehab                        | \$                                                                                 | 77,755    | 5          | 3A, C | 0.04 | 30 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 319293    | 40         | HOPKINS ST        | SAN PABLO AVE   | STANNAGE AVE    | R     | Light Mtce                         | \$                                                                                 | 19,188    | 1          | N     | 0.09 | 73 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           | 319293    | 42         | HOPKINS ST        | STANNAGE AVE    | NORTHSIDE AVE   | R     | Heavy Mtce                         | \$                                                                                 | 157,658   | 1          | Ν     | 0.17 | 80 | 9/13/2002  |        | MILL AND OVERLAY W/FABRIC  |
| 2023           |           |            | 15% DISCRETIONARY |                 |                 |       |                                    | \$                                                                                 | 1,091,295 |            |       |      |    |            |        |                            |
|                |           |            |                   |                 |                 |       |                                    | \$                                                                                 | 5,711,469 |            |       | 2.86 |    |            |        |                            |

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#### EXHIBIT A 5-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

| Fiscal<br>Year | Street ID | Section ID | Street Name       | From               | То                  | Class | Treatment<br>(from<br>StreetSaver) | Up | odated Total<br>Cost | District | Р         | Mileage | Current<br>PCI | Last M&R<br>Date | Last M&R | Last Paved                  |
|----------------|-----------|------------|-------------------|--------------------|---------------------|-------|------------------------------------|----|----------------------|----------|-----------|---------|----------------|------------------|----------|-----------------------------|
| 2024           | 729014    | 63         | ALLSTON WAY       | MILVIA ST          | SHATTUCK AVE        | R     | Heavy Rehab                        | \$ | 228,800              | 4        | N         | 0.14    | 19             | 11/1/1990        | 0 -      | MILL AND THIN OVERLAY       |
| 2024           | 729014    | 65         | ALLSTON WAY       | SHATTUCK AVE       | OXFORD ST           | R     | Reconstruct                        | \$ | 344,036              | 4        | N         | 0.11    | 10             | 11/1/1992        | 0 -      | MILL AND OVERLAY W/FABRIC   |
| 2024           | 729104    | 63         | CHANNING WAY      | MILVIA ST          | SHATTUCK AVE        | R     | Heavy Rehab                        | \$ | 267,640              | 4        | 2A to 2B* | 0.13    | 27             | 9/1/1991         | 0 -      | MILL AND OVERLAY W/FABRIC   |
| 2024           | 829104    | 60         | CHANNING WAY      | MARTIN LUTHER KING | MILVIA ST           | R     | Reconstruct                        | \$ | 462,920              | 4        | 2A to 2B* | 0.13    | 10             | 5/1/1995         | 0 -      | THIN AC OVERLAY(1.5 INCHES) |
| 2024           | 322142    | 48         | DELAWARE ST       | ACTON ST           | SACRAMENTO ST       | С     | Heavy Mtce                         | \$ | 78,175               | 1        | 4*        | 0.13    |                |                  |          |                             |
| 2024           | 636146    | 78         | DERBY ST          | HILLEGASS AVE      | COLLEGE AVE         | R     | Reconstruct                        | \$ | 498,560              | 8        | 3E*       | 0.14    |                |                  |          |                             |
| 2024           | 627155    | 85         | DWIGHT WAY        | HILLSIDE AVE       | DEAD END ABOVE      | R     | Reconstruct                        | \$ | 406,204              | 8        | N         | 0.11    | 0              | 9/1/1993         | A - AC   | RECONSTRUCT SURFACE (AC)    |
| 2024           | 627155    | 83         | DWIGHT WAY        | PIEDMONT AVE       | HILLSIDE AVE        | R     | Reconstruct                        | \$ | 526,688              | 7, 8     | N         | 0.14    | 3              | 9/1/1993         | 0 -      | MILL AND OVERLAY W/FABRIC   |
| 2024           | 111249    | 17         | GRIZZLY PEAK BLVD | KEELER AVE         | MARIN AVE           | С     | Reconstruct                        | \$ | 843,578              | 6        | 3C*       | 0.27    |                |                  |          |                             |
| 2024           | 920275    | 40         | HEINZ AVE         | 7TH ST             | SAN PABLO AVE       | R     | Reconstruct                        | \$ | 897,408              | 2        | 3E        | 0.26    |                |                  |          |                             |
| 2024           | 739285    | 70         | HILLEGASS AVE     | ASHBY AVE          | CITY LIMIT (WOOLSEY | R     | Light Mtce                         | \$ | 68,400               | 8        | 3E        | 0.16    | 83             | 7/28/2003        | A - AC   | RECONSTRUCT STRUCTURE (AC)  |
| 2024           | 736285    | 60         | HILLEGASS AVE     | DWIGHT WAY         | ASHBY AVE           | R     | Light Mtce                         | \$ | 256,000              | 8        | 3E        | 0.61    | 83             | 5/31/2000        | A - AC   | RECONSTRUCT STRUCTURE (AC)  |
| 2024           | 213293    | 53         | HOPKINS ST        | MC GEE AVE         | CARLOTTA AVE        | С     | Heavy Rehab                        | \$ | 149,680              | 5        | 2A, C     | 0.06    | 47             | 12/1/1989        |          | RECONSTRUCT STRUCTURE (AC)  |
| 2024           | 213293    | 55         | HOPKINS ST        | CARLOTTA AVE       | JOSEPHINE ST        | С     | Heavy Rehab                        | \$ | 874,580              | 5        | 2A, C     | 0.35    | 60             | 12/1/1989        |          | MILL AND OVERLAY            |
| 2024           |           |            | 15% DISCRETIONARY |                    |                     |       |                                    | \$ | 1,091,295            |          |           |         |                |                  |          |                             |
|                |           |            |                   |                    |                     |       |                                    | \$ | 6,993,964            |          |           | 2.74    |                |                  |          |                             |



## FISCAL YEAR 2020 TOTALS

| Total Estin  | mated Cost and Miles | \$ | 6,265,814  | 3.67 I | miles       |
|--------------|----------------------|----|------------|--------|-------------|
|              | MILEAGE              |    | District   | Miles  | Cost        |
| ARTERIALS    | 0.32                 |    | 1          | 0.69   | \$1,685,991 |
| COLLECTORS   | 1.77                 |    | 2          | 0.31   | \$1,328,400 |
| RESIDENTIALS | 1.58                 |    | 3          | 0.44   | \$764,300   |
|              | 3.67                 |    | 4          | 0.03   | \$0         |
|              |                      |    | 5          | 0.57   | \$960,667   |
|              |                      |    | 6          | 0.30   | \$526,456   |
|              |                      |    | 7          | 0.00   | \$0         |
|              |                      |    | 8          | 0.00   | \$0         |
|              |                      | Ar | terial/PRW | 1.33   | \$1,000,000 |
|              |                      |    |            | 3.67   | \$6,265,814 |

6975303

### FISCAL YEAR 2021 TOTALS

| Total Es     | timated Cost and Miles | \$ | 6,968,593 | 3.84 ı | niles       |  |
|--------------|------------------------|----|-----------|--------|-------------|--|
|              | MILEAGE                |    | District  | Miles  | Cost        |  |
| ARTERIALS    | 0.00                   |    | 1         | 0.18   | \$1,538,055 |  |
| COLLECTORS   | 0.51                   |    | 2         | 0.71   | \$1,084,031 |  |
| RESIDENTIALS | 3.33                   |    | 3         | 0.26   | \$155,120   |  |
|              | 3.84                   |    | 4         | 0.39   | \$1,052,125 |  |
|              |                        |    | 5         | 0.00   | \$0         |  |
|              |                        |    | 6         | 1.54   | \$737,394   |  |
|              |                        | _  | 7         | 0.76   | \$1,355,572 |  |
|              |                        |    | 8         | 0.00   | \$0         |  |
|              |                        |    | 15%       |        | \$1,046,295 |  |

3.84 \$6,968,592 6975303

### FISCAL YEAR 2022 TOTALS

| imated Cost and M | liles                                                        |                                                                  |
|-------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| MILEAGE           |                                                              |                                                                  |
| 0.41              |                                                              |                                                                  |
| 0.23              |                                                              |                                                                  |
| 2.39              |                                                              |                                                                  |
| 3.03              |                                                              |                                                                  |
|                   |                                                              |                                                                  |
|                   |                                                              |                                                                  |
|                   |                                                              |                                                                  |
|                   | imated Cost and M<br>MILEAGE<br>0.41<br>0.23<br>2.39<br>3.03 | imated Cost and Miles<br>MILEAGE<br>0.41<br>0.23<br>2.39<br>3.03 |

| \$ 5,895,237 | 3.03  | miles       |         |
|--------------|-------|-------------|---------|
| District     | Miles | Cost        |         |
| 1            | 0.00  | \$0         |         |
| 2            | 0.50  | \$911,600   |         |
| 3            | 0.80  | \$748,867   |         |
| 4            | 0.23  | \$956,235   |         |
| 5            | 0.00  | \$0         |         |
| 6            | 0.00  | \$0         |         |
| 7            | 1.09  | \$1,335,760 |         |
| 8            | 0.00  | \$0         |         |
| Arterial     | 0.41  | \$896,480   |         |
| 15%          |       | \$1,046,295 |         |
|              | 3.03  | \$5,895,237 | 6975303 |

### FISCAL YEAR 2023 TOTALS

| Total Estimated Cost and Miles |      |  |  |  |
|--------------------------------|------|--|--|--|
| MILEAGE                        |      |  |  |  |
| ARTERIALS                      | 0.04 |  |  |  |
| COLLECTORS                     | 0.62 |  |  |  |
| RESIDENTIALS                   | 2.17 |  |  |  |
|                                | 2.83 |  |  |  |
|                                |      |  |  |  |

| \$ 5,711,469 | 2.83  | 2.83 miles  |  |  |
|--------------|-------|-------------|--|--|
| District     | Miles | Cost        |  |  |
| 1            | 0.50  | \$626,949   |  |  |
| 2            | 0.00  | \$0         |  |  |
| 3            | 0.83  | \$1,150,792 |  |  |
| 4            | 0.22  | \$637,614   |  |  |
| 5            | 0.34  | \$602,817   |  |  |
| 6            | 0.30  | \$470,167   |  |  |
| 7            | 0.25  | \$454,080   |  |  |
| 8            | 0.36  | \$600,000   |  |  |
| Arterial     | 0.04  | \$77,755    |  |  |
| 15%          |       | \$1,091,295 |  |  |

2.83 \$5,711,469 7275303

## FISCAL YEAR 2024 TOTALS

| Total Esti   | mated Cost and Miles | \$ 6,993,964 | 2.74  | miles       |         |
|--------------|----------------------|--------------|-------|-------------|---------|
|              | MILEAGE              | District     | Miles | Cost        |         |
| ARTERIALS    | 0.00                 | 1            | 0.13  | \$78,175    |         |
| COLLECTORS   | 0.81                 | 2            | 0.26  | \$897,408   |         |
| RESIDENTIALS | 1.93                 | 3            | 0.00  | \$0         |         |
|              | 2.74                 | 4            | 0.51  | \$1,303,396 |         |
|              |                      | 5            | 0.41  | \$1,024,260 |         |
|              |                      | 6            | 0.27  | \$843,578   |         |
|              |                      | 7            | 0.00  | \$0         |         |
|              |                      | 8            | 1.16  | \$1,755,852 |         |
|              |                      | Arterial     | 0.00  | \$0         |         |
|              |                      | 15%          |       | \$1,091,295 |         |
|              |                      |              | 2.74  | \$6,993,964 | 7275303 |

### FISCAL YEAR 2020 to 2024 TOTALS

| Total E      | stimated Cost a | nd Miles |        |
|--------------|-----------------|----------|--------|
|              | MILEAGE         | %        | % COST |
| ARTERIALS    | 0.77            | 5%       | 12%    |
| COLLECTORS   | 3.94            | 24%      | 13%    |
| RESIDENTIALS | 11.40           | 71%      | 9%     |
|              | 16.11           | 100%     | 12%    |
|              |                 |          | 8%     |
|              |                 |          | 8%     |
|              |                 |          | 10%    |
|              |                 |          | 7%     |
|              |                 |          | 6%     |
|              |                 |          | 13%    |
|              |                 |          | 100%   |

|     |        | \$ 31,835,077 | 16.11 | miles        |              |
|-----|--------|---------------|-------|--------------|--------------|
| DST | % MILE | District      | Miles | Cost         |              |
| 12% | 9%     | 1             | 1.50  | \$3,929,170  |              |
| 13% | 11%    | 2             | 1.78  | \$4,221,439  |              |
| 9%  | 14%    | 3             | 2.33  | \$2,819,079  |              |
| 12% | 9%     | 4             | 1.38  | \$3,949,370  |              |
| 8%  | 8%     | 5             | 1.32  | \$2,587,744  |              |
| 8%  | 15%    | 6             | 2.41  | \$2,577,595  |              |
| 10% | 13%    | 7             | 2.10  | \$3,145,412  |              |
| 7%  | 9%     | 8             | 1.52  | \$2,355,852  |              |
| 6%  | 11%    | Arterial/PRW  | 1.78  | \$1,974,235  |              |
| 13% | 0%     | 15%           |       | \$4,275,180  |              |
| 00% | 100%   |               | 16.11 | \$31,835,076 | \$35,476,515 |
|     |        |               |       |              |              |





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Paving Subcommittee Input



Public Works Commission Transportation Commission



City Council/Adopted Plan