

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

To: Honorable Mayor and Members of the City Council

From: Dee Williams-Ridley, City Manager

Submitted by: Phillip L. Harrington, Director, Department of Public Works

Subject: Companion Report: Public Works Commission Recommendation for the Five-Year Street Rehabilitation Plan

RECOMMENDATION

Adopt a Resolution updating the City's Five-Year Street Rehabilitation Plan for FY 2020 to FY 2024 and refer to the City Manager consideration of a Long-Term Paving Master Plan to be started after the completion of the public process of T1 Phase 2. The City Council may consider the information put forth by the Public Works Commission relevant to adoption of the recommended plan.

SUMMARY

In Part A, Section 1, the City of Berkeley's Street Rehabilitation Policy¹ (Policy) states, "It is the policy of the City of Berkeley that there shall be a Five-Year Street Rehabilitation Plan (Rehabilitation Plan, otherwise referred to as the "Paving Plan") for the entire City to be adopted by the City Council." The Public Works Commission (PWC) is charged by the Policy with reviewing and advising on that Rehabilitation Plan. Staff has carefully considered the PWC's advice, and recommends the City Council: 1.) approve the Five Year Street Rehabilitation Plan, and 2.) postpone the preparation of a Long-Term Paving Master Plan.

The City updates its Pavement Management System every two years providing the most current information for the City's pavement condition which staff bases decisions for development of the Rehabilitation Plan. The PWC is recommending addressing the pavement condition through the creation and implementation of a long-term paving plan. Staff believes that until additional funding, potentially from the second phase of Measure T1, can be identified to address the significant funding shortfall, consideration of the development of a longer term paving plan should be deferred until after the community process for selecting projects for the second phase of T1. The public process and community outreach as part of the second phase of the T1 bond measure will provide information and input on what is most important to the residents of Berkeley. This information is an essential first step before starting the development of a longer term paving plan. The input will help prioritize selection of improvements and define possible revisions to the Policy about the distribution of funds to bicycle routes, residential streets,

¹ https://www.cityofberkeley.info/Public_Works/Sidewalks-Streets-Utility/Street_Rehabilitation_and_Repair_Policy_updated_March_2009.aspx

green infrastructure and Vision Zero improvements. The City's PCI has been declining and was projected to be 57. The current PCI of 59.7 reflects a slight increase, and with increased funding support, the City could see additional improvement.

FISCAL IMPACTS OF RECOMMENDATION

This Rehabilitation Plan is based on the adopted biennial budget for Fiscal Years 2020 and 2021, and the estimated available funding levels from all sources, including State Transportation (Gas) Taxes, Measure B, Measure BB, County Measure F, and the General Fund. Similarly, the street rehabilitation programs for future years are based on projected budgets and estimated available funding levels. The funding allocations for street rehabilitation in the next five fiscal years FY 2020 - 2024 are provided in the Table below.

| Table 1: Current Year and Year, in \$ | Five-Year Pa | ving Progran | n Funding So | ource Alloca | tions by |
|--|--------------|--------------|--------------|--------------|-----------|
| 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 |
| 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 |
| Road Repair and Accountability Act of 2017 | 1,500,000 | 1,700,000 | 1,700,000 | 2,000,000 | 2,000,000 |
| TOTAL | 6,975,303 | 6,975,303 | 6,975,303 | 7,275,303 | 7,275,303 |

City bond measures and grants shown in the table below have also been sources of funding for the street rehabilitation program. However, these funds are not guaranteed annual fund sources. Approximately \$8.5 million of Phase 1 Measure T1 bond funds will be spent on street improvements in Fiscal Years 2020 and 2021. An extensive community process to identify and vet potential projects to be delivered with Phase 2 of T1 bond funds is scheduled to start in in early 2020. Phase 2 of T1 bond funds will not be available until after Council approves the Phase 2 Measure T1 projects, which is anticipated to occur in March 2021. Federal grant funds were secured for the Shattuck Reconfiguration Project in the amount of \$2.78 million dollars, and the funds will be spent in Fiscal Year 2020. Federal grant funds in the amount of \$1.2 million were also secured for street rehabilitation in association with the Southside Complete Streets project to be spent in Fiscal Year 2021.

Page 3 of 25

Companion Report: Public Works Commission Recommendation for the Five-Year Street Rehabilitation Plan

| Table 2: Other Funding Source Allocations by Year, in \$ | | | | | | | | | | |
|--|-----------|-----------|---------|---------|---------|--|--|--|--|--|
| Fund Description | FY 2020 | FY 2021 | FY 2022 | FY 2023 | FY 2024 | | | | | |
| Measure T1 | 7,500,000 | 1,000,000 | 0 | 0 | 0 | | | | | |
| Grants | 2,777,000 | 1,200,000 | 0 | 0 | 0 | | | | | |

CURRENT SITUATION AND ITS EFFECTS

The City has performed a significant amount of street paving this past year. With all of the recent work, the City street network Pavement Condition Index (PCI) has increased slightly from a PCI of 57 in 2017 to a PCI of 59.7. Even though this represents a slight change, it is a positive change in the right direction.

The current PCI is a result of historical funding levels appropriated to the City's street rehabilitation program and decades of deferred maintenance. In addition to pavement maintenance and rehabilitation, street paving projects incorporate many other improvements as part of a "complete streets" approach that repairs or replaces street infrastructure such as curb ramps, curbs, gutters, sidewalks, drainage inlets and pipes, signage and striping. These non-pavement construction costs average about 35% of the available funding levels. Projects soft costs such as design, construction management and inspection, survey, and material testing average about 15% of the available funding levels. Together, these non-pavement related expenses represent approximately 50% of the available funding levels for the Rehabilitation Plan.

City maintenance forces have also significantly increased pavement maintenance efforts in recent years to include a robust crack sealing program and an expanded program to address potholes, localized base failure repairs, thermoplastic striping, and sidewalk repairs.

Per the Policy, funds allocated for street rehabilitation are recommended to be used as follows:

- 10% for Arterial Streets
- 50% for Collector Streets
- 25% for Residential Streets
- 15% for Discretionary and Demonstration Projects

Per the above distribution guidelines, residential streets (generally low speed, low traffic volume streets serving neighborhoods) have historically received lower funding levels, and as a result, have more pavement rehabilitation needs than arterials (serve major activity centers with highest traffic volumes) and collectors (transfer traffic from residential streets to arterials).

For this Rehabilitation Plan, staff and the PWC collectively agreed to propose a greater distribution toward residential streets as follows:

- Approximately 3% to Arterial Streets
- Approximately 24% for Collector Streets
- Approximately 60% for Residential Streets

The PWC is in the process of developing a recommendation for criteria to assist with prioritizing projects to be funded with the approximately 15% of funding discretionary reserve. Previously funding for discretionary and demonstration projects have been spent on projects such as the Allston Way Permeable Paver project. However, consideration could also be given to using these funds on other beneficial improvements related to vision zero or bicycle master plans. Staff concurs with the PWC that the Policy should be reviewed and updated to reflect changes since the last update in 2009. A review of the Allston Way project showed that project costs were approximately \$1,500,000 or about \$485/square yard (SY). The estimated cost of an asphalt surface reconstruction would have been approximately \$150,000 or about \$49/SY. In April of 2019, approximately 4-1/2 years after the initial paver installation, City maintenance workers had to replenish the gravel joint filler material that helps holds the pavers in place. Replenishment of bedding material was originally projected to be required at year 10 (2024). The cost to replenish the joint filler was approximately \$42,000 or about \$14/SY. The recommended maintenance treatment for the asphalt pavement would be an \$8/SY slurry seal at year 8 (2022) at an estimated cost of \$25,000. It is expected that regular replenishment of the filler material will be required along with a more significant effort to relevel several areas that that have experienced excessive settlement. The Allston project also involved a full road closure for nearly 4 months. The asphalt pavement option limits construction impacts to normal working hours for a few weeks.

In addition to the distribution of funding by street classification, the Policy requires consideration of other items in street selection process for the Rehabilitation Plan which are depicted in the 5-Year Paving Plan Process Flow Diagram (Attachment 3).

Bikeways / Bus Route: Staff coordinated with Bike East Bay and also considered comments from Walk Bike Berkeley. Staff also reviewed the City's Bicycle Plan and the Pedestrian Plan to incorporate pedestrian mobility improvements and improvements to bicycle routes into the Rehabilitation Plan. The Rehabilitation Plan includes several streets in the bicycle plan, including Milvia Street, Cedar Street, Santa Fe Avenue, and Hopkins Street, and several streets that are also bus routes including Monterey Avenue, Bancroft Way, Center Street, Dana Street and Telegraph Avenue.

Utility Coordination: The Rehabilitation Plan has also been coordinated with future sewer projects, with East Bay Municipal Utility District (EBMUD) pipeline replacement, and with planned gas and electric line relocations by Pacific Gas and Electric. The City is currently working with EBMUD to have Ellsworth Street from Bancroft Way to Ashby Avenue and Stuart Street from Fulton to Hillegass Avenue pavement rehabilitation in FY 2022 incorporated into their Wildcat Aqueduct Pipeline Improvement Project construction.

Equity: Although not explicitly relayed in the Street Rehabilitation Policy staff tries to balance equity among the districts and to rehabilitate contiguous streets.

From Fiscal Years 2020 to 2024 the City will pave a total of 16.11 miles of streets, as described in Exhibit A, at a cost of \$27.6 million. The total includes 11.40 miles of residential streets, 0.77 miles of arterials, and 3.04 miles of collectors.

Pavement Engineering Inc. (PEI) updated the City's Pavement Management System using the Metropolitan Transportation Commission's (MTC) Streetsaver® program. The purpose of the Pavement Management System, a pavement assessment of the entire City's street network, is to track inventory, store work history, and furnish budget estimates to optimize funding for improving the City's pavement system.

The updated Pavement Management System showed that the City's current overall average PCI is 59.7. The breakdown by functional classification of street is provided in the table below. Residential streets which are the largest category of streets in the City, have the lowest PCI of 56.

| Table 3: PCI by Street Classification | | | | | | | | | | |
|---------------------------------------|--------------------------|-----------------------|----------------------|-------------|--|--|--|--|--|--|
| FUNCTIONAL CLASS | CENTERLINE MILES (CL) | AREA (SQUARE FEET) | PERCENT OF SYSTEM | AVERAGE PCI | | | | | | |
| Arterial | 22 | 5,688,148 | 14% | 67.9 | | | | | | |
| Collector | 37 | 6,966,432 | 18% | 65.4 | | | | | | |
| Residential | 156 | 26,385,401 | 68% | 56.4 | | | | | | |
| TOTAL | 215 | 39,039,981 | 100% | 59.7 | | | | | | |

The breakdown by mileage and PCI by Council District for the entire street network is provided in Table 4. It shows that the percent of pavement area per District ranges from 5.1% to 18.4%, and the PCI ranges from 50 to 62. The centerline miles in each District varies as well, from 9.4 to 36.5 miles.

The Rehabilitation Plan proposes to rehabilitate pavement such that the percentage of funds are distributed among the Districts as shown in the far right two columns of Table 4. The percentage of funds spent on rehabilitation per District ranges from 8% to 14%. The centerline miles of pavement rehabilitated per District ranges from 1.50 to 2.41 miles. The percentage of funds to be spent in each district is based on the total estimated street rehabilitation costs.

Page 6 of 25

Companion Report: Public Works Commission Recommendation for the Five-Year Street Rehabilitation Plan

| Table 4: Council District Mileage, PCI, Rehabilitation Plan | | | | | | | | | | | | | |
|---|---------------------------|---------|-----------|-----|-------------|----------|--|--|--|--|--|--|--|
| | Mileage & PCI By District | | | | | | | | | | | | |
| | Area (SF) | Mileage | % of area | PCI | % Funds* | Mileage* | | | | | | | |
| District 1 | 7,189,018 | 36.5 | 18.4% | 57 | 9% | 1.50 | | | | | | | |
| District 2 | 5,923,823 | 31.5 | 15.2% | 50 | 11% | 1.78 | | | | | | | |
| District 3 | 4,987,344 | 23.7 | 12.8% | 58 | 14% | 2.33 | | | | | | | |
| District 4 | 3,510,446 | 16.1 | 9.0% | 55 | 9% | 1.38 | | | | | | | |
| District 5 | 6,313,826 | 37.3 | 16.2% | 62 | 8% | 1.32 | | | | | | | |
| District 6 | 4,946,098 | 36.6 | 12.7% | 60 | 15% | 2.41 | | | | | | | |
| District 7 | 1,997,809 | 9.4 | 5.1% | 62 | 13% | 1.52 | | | | | | | |
| District 8 | 4,179,713 | 23.6 | 10.7% | 60 | 9% | 1.78 | | | | | | | |

* does not include arterial or waterfront streets or discretionary funding.

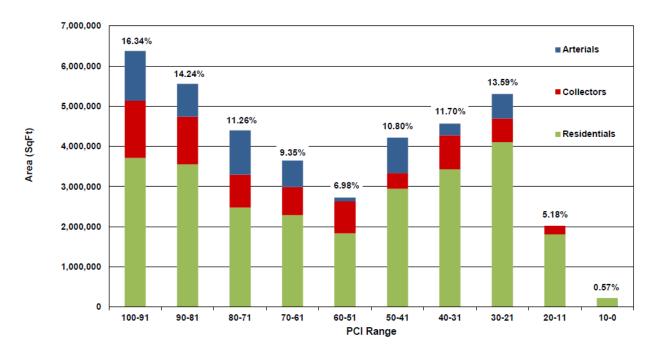
The breakdown by mileage and PCI for bikeways and bus routes is provided in Table 5 below. It shows that bikeways and bus routes are a significant portion the City's roadways. The PCI is 66 for bus routes, which is higher than the system wide average PCI of 59.7. This is a reflection of focus and funding spent on arterials and collectors.

| Table 5: Bikeway / Bus Route Mileage and PCI | | | | | | | | | | | | |
|--|------------|----|-----|----|--|--|--|--|--|--|--|--|
| Area (SF) Mileage % PCI | | | | | | | | | | | | |
| Bikeway | 13,415,581 | 65 | 34% | 61 | | | | | | | | |
| Bus Route | 9,167,372 | 40 | 23% | 66 | | | | | | | | |

The table below shows the breakdown of the system into PCI Condition Categories.

| Table 6: PCI Condition Categories | | | | | | | | | | |
|-----------------------------------|-----------|------------|-------------|----------|--|--|--|--|--|--|
| CONDITION | PCI RANGE | % OF TOTAL | SQUARE FEET | CL MILES | | | | | | |
| EXCELLENT | 100-91 | 16% | 6,378,721 | 34 | | | | | | |
| GOOD | 90-71 | 26% | 9,957,142 | 53 | | | | | | |
| FAIR | 70-51 | 16% | 6,373,028 | 37 | | | | | | |
| POOR | 50-31 | 23% | 8,784,629 | 48 | | | | | | |
| FAILED | 30-0 | 19% | 7,546,461 | 43 | | | | | | |
| | | 100% | 39,039,981 | 215 | | | | | | |

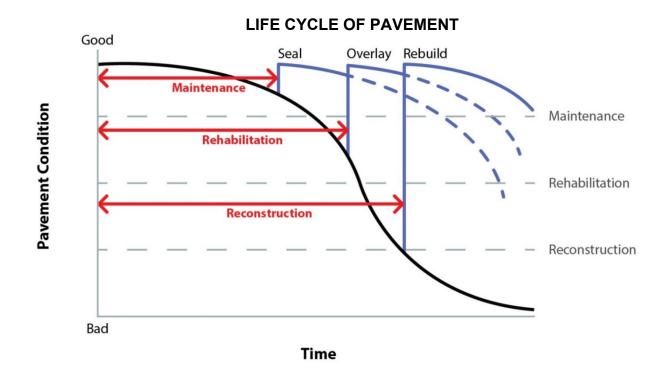
The analysis shows that **42%** of the City's pavement is in *Excellent* to *Good* condition and that **39%** of the City's pavement is in *Fair* to *Poor* condition. This is further illustrated in the bar graph below shows a breakdown of the system into 10pt PCI ranges, by Functional Classification. This shows that while the overall PCI is 59.7, the pavement system needs require a mix of both maintenance treatments and rehabilitation treatments. Maintenance treatments include slurry and cape seals, and thin overlays. Costs for these treatments range from \$8 to \$27 per square yard. Rehabilitation treatments include thick overlays, pavement milling/filling, and full depth reclamation. Costs for these treatments range from \$52 to \$104 per square yard.



Berkeley Total System by Functional Class by PCI

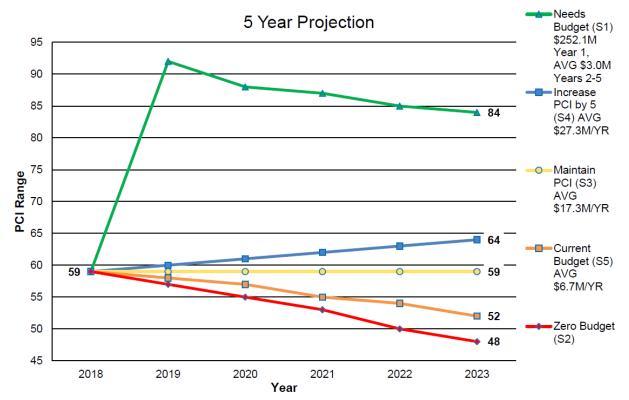
Page 8 of 25

The graph below shows the life cycle or deterioration curve of pavement over time. The City's overall PCI of 59.7 is in the steepest part of the curve. This shows that the pavement can progress from good (able to be rehabilitated) to bad (in need of a total reconstruction) in a short period of time. The treatment (blue) lines on the graph show this, the importance of applying the right treatment at the right time to maximize the service life of the road.



- PEI analyzed the following pavement rehabilitation scenarios: Unconstrained budget needs for next 5 years
- Amount of funds needed to maintain current PCI
- Impact of the current funding amount (5 Year Plan)
- Budget needed to increase the overall PCI level by 5 points
- Result if zero dollars are spent on the City's street system

For each of these scenarios, PEI performed 5-year projections, represented by the graph below.



An explanation of the 5-year scenarios and their result are as follows:

- Scenario 1 (S1): Represents the budget required based on the "Needs" of the system. Assumes all pavements are treated at their optimum timing. With an initial investment of \$252.1M in year one and an average of \$3.0M in years 2-5, the PCI increases from 59 to 84.
- Scenario 2 (S2): Represents the impact to the PCI if Zero dollars are spent.
- Scenario 3 (S3): Amount of funding to maintain the current PCI of 59 \$17.3M/Yr. (Avg.)
- Scenario 4 (S4): Budget to increase overall PCI by 5 points \$27.3M/Yr. Avg. (Raises the PCI from 59 to 64).
- Scenario 5 (S5): Impact of the current 5 Year Plan (averaging \$6.7M/Yr.) The overall system PCI would be 52.

The City is currently budgeting an average of \$7 million of baseline funding annually. At this funding level, the PCI is expected to drop to 52 by the year 2023. If the City would like to maintain the current PCI of 59, it needs to invest an additional \$10 million annually into the street Capital Improvement Program. If the City would like increase the PCI 5 points to a PCI of 64, it will need to invest \$27 million each year, an increase of \$20 million over

current funding levels. In order to improve the PCI from the "at risk" category to the "good" category (PCI 70 to 79) the City will need to invest over \$30 million annually.

This resolution updating the Five Year Street Rehabilitation Plan for FY 2020 – FY2024 advances the City's strategic goal of providing state-of-the-art, well-maintained infrastructure, amenities, and facilities.

BACKGROUND

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. To the extent practicable, this Rehabilitation Plan shall be consistent with the priorities of the City's Street Rehabilitation Policy. The primary purpose of the Policy is to maintain a safe surface conveyance system in the public right-of-way for vehicles, bicycles, transit, and pedestrians alike. Per the Policy, the Rehabilitation Plan shall strive to identify and implement integrated solutions that address the multiple demands on the street infrastructure, that are designed for safety, environmental sustainability and economic efficiency over the long run.

Each year, the PWC reviews the Rehabilitation Plan for consistency with the City's current Policy, and the Plan is subsequently presented to the City Council for adoption.

ENVIRONMENTAL SUSTAINABILITY

The City includes environmental sustainability in the development of its Rehabilitation Plan. In accordance with the street rehabilitation policy, the City set asides 15% of its funds towards demonstration or discretionary projects such as street rehabilitation which provides environmental benefits. In Fiscal Year 2020, a demonstration project the City plans to construct includes the use of permeable concrete in the parking lanes. The Public Works Commission is currently identifying additional green infrastructure projects in FY 2021 to 2024 to be funded by the discretionary and demonstration funds.

In addition, environmentally conscious pavement treatments are incorporated in the paving projects such as Full Depth Reclamation (FDR). FDR is being used as a cost-effective alternative to traditional street reconstruction methods. 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.

The Rehabilitation Plan also 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 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

Page 11 of 25 Companion Report: Public Works Commission Recommendation for the Five-Year Street Rehabilitation Plan

provides for much needed street infrastructure improvements that are consistent with the City's Street Rehabilitation Policy.

<u>ALTERNATIVE ACTIONS CONSIDERED</u> No alternative actions were considered.

CONTACT PERSON

Phillip L. Harrington, Director, Public Works, (510) 981-6303 Andrew Brozyna, Deputy Director, Public Works, (510) 981-6496 Nisha Patel, Manager of Engineering, Public Works (510) 981-6406 Joe Enke, Supervising Civil Engineer, Public Works (510) 981-6411

Attachments:

- 1. Resolution
 - Exhibit A: 5-Year Street Rehabilitation Plan for FY 2020 to FY 2024
- 2. Map of the 5-Year Street Rehabilitation Plan, FY 2020 to FY 2024
- 3. 5-Year Paving Plan Process Flow Diagram

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

APPROVAL OF THE FIVE-YEAR STREET REHABILITATION PLAN FOR FY 2020 TO FY 2024

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

WHEREAS, the Five-Year Street Rehabilitation Plan shall be reviewed and updated annually by the City Council, with advice from the Public Works Commission; and

WHEREAS, the Street Rehabilitation Policy, proposes distribution of funds to be used for street rehabilitation as follows: 10% for arterial streets; 50% for collector streets; 25% for residential streets; 15% for discretionary and demonstration projects; and

WHEREAS, residential streets have historically received lower funding levels and as a result have more pavement rehabilitation needs than the other street classifications; and

WHEREAS, Department of Public Works staff recommends more funding to be distributed to residential streets and less to the other street classifications as proposed in the FY 2020 to FY 2024 Five-Year Street Rehabilitation Plan, attached as Exhibit A; and

WHEREAS, Department of Public Works staff recommends Council adopt the FY 2020 to FY 2024 Five-Year Street Rehabilitation Plan.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the FY 2020 to FY 2024 Five-Year Street Rehabilitation Plan, attached as Exhibit A hereof, is hereby adopted.

Exhibit A: Five-Year Street Rehabilitation Plan for FY 2020 to FY 2024

Page 13 of 25

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

| Fiscal Year | Street ID | Section ID | Street Name | From | То | Class | Treatment (from StreetSaver) | Updated Total Cost | District | Р | Mileage | Current PCI | Last M&R Date | Last M&R | Last Paved |
|----------------|-----------|------------|-------------------|-------------------|--------------------|-------|------------------------------------|-----------------------|----------|-----|---------|----------------|------------------|----------|----------------------------|
| 2020 | 321100 | 30 | CEDAR ST | 6TH ST | SAN PABLO AVE | С | Reconstruct | \$ 1,239,036 | 1 | 3C* | 0.31 | 23 | 10/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2020 | 320685 | 10 | MARINA BLVD | SPINNAKER WAY | UNIVERSITY AVE | С | Heavy Mtce | | 1 | N | 0.43 | 56 | 9/1/1986 | A - AC | OVERLAY |
| 2020 | 735382 | 60 | MILVIA ST | BLAKE ST | RUSSELL ST | R | Heavy Rehab | \$ 764,300 | 3 | 3E | 0.44 | 26 | 9/1/1993 | A - AC | RECONSTRUCT SURFACE (AC) |
| 2020 | 516492 | 75 | ROSE ST | LE ROY AVE | EAST END | R | Reconstruct | \$ 205,000 | 6 | Ν | 0.14 | 8 | | A - AC | |
| 2020 | 319525 | 35 | SANTA FE AVE | GILMAN ST | CORNELL AVE & PAGE | R | Heavy Rehab | \$ 409,600 | 1 | 3C* | 0.27 | 41 | 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 | 93 | 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 | 28 | 11/1/1988 | A - AC | RECONSTRUCT SURFACE (AC) |
| 2020 | 115532 | 79 | SHASTA RD | PARK GATE | EAST CITY LIMIT | С | Reconstruct | \$ 234,789 | 6 | Ν | 0.11 | 26 | 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 | 22 | 8/1/1991 | A - AC | OVERLAY |
| 2020 | 213386 | 22 | MONTEREY AVE | THE ALAMEDA | HOPKINS ST | С | Heavy Rehab | \$ 960,667 | 5 | 2A | 0.57 | 47 | 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 | 21 | 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 | 9 | 12/1/1989 | A - AC | OVERLAY |
| 2020 | 729533 | 55 | SHATTUCK AVE | CENTER ST | ALLSTON WAY | A | Reconstruct | | 4 | | 0.06 | 18 | 7/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2020 | 729533 | 57 | SHATTUCK AVE (SB) | CENTER ST | UNIVERSITY AVE | A | Reconstruct | | 4 | | 0.13 | 25 | 7/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2020 | 729007 | 64 | ADDISON ST | SHATTUCK AVE | SHATTUCK AVE | R | Heavy Rehab | | 4 | | 0.03 | 48 | 7/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2020 | 729051 | 52 | BERKELEY SQUARE | ADDISON ST | CENTER ST | А | Heavy Rehab | | 4 | | 0.06 | 34 | 7/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2020 | 729535 | 50 | SHATTUCK SQUARE | UNIVERSITY AVE | ADDISON | А | Heavy Rehab | | 4 | | 0.07 | 30 | 7/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| | | | | | | | | \$ 6,265,814 | | | 3.69 | | | | |

Note: Column P denotes presence of bike facility type (1 paved path, 2A 2B bike lane, 3A sign-only, 3C Sharrows, 3E bike blvd, 4 cycle track); C for bus route; and N for none.

Revised: 05/22/2019

Page 14 of 25

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

| Fiscal Year | Street ID | Section ID | Street Name | From | То | Class | Treatment (from StreetSaver) | Updated Cost | ^r otal I | District | Р | Mileage | Current PCI | Last M&R Date | Last M&R | Last Paved |
|----------------|-----------|------------|-------------------|--------------------|-------------------|-------|------------------------------------|-----------------|---------------------|----------|-----------|---------|----------------|------------------|----------|----------------------------|
| 2021 | 940005 | 70 | ACTON ST | ASHBY ST | 66TH ST | R | Light Mtce | \$ 83 | 640 | 2 | Ν | 0.23 | 79 | 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 | 27 | 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 | 56 | 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 | 28 | 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 | 49 | 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 | 49 | 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 | 63 | 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 | 45 | 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 | 79 | 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 | 55 | 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 | 41 | 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 | 59 | 6/1/1994 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2021 | 115380 | 70 | MILLER AVE | HILLDALE AVE | SHASTA RD | R | Light Rehab | \$ 425 | 880 | 6 | Ν | 0.66 | 53 | 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 | 52 | 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 | 39 | 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 | 55 | 10/1/1994 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2021 | 320528 | 47 | 2ND ST | DELAWARE ST | HEARST AVE | R | Reconstruct | \$ 775 | 833 | 1 | Ν | 0.09 | 9 | NA | | |
| 2021 | 320528 | 48 | 2ND ST | HEARST AVE | UNIVERSITY AVE | R | Heavy Rehab | \$ 762 | 222 | 1 | Ν | 0.09 | 33 | NA | | |
| 2021 | 920528 | 50 | 2ND ST | UNIVERSITY AVE | ADDISON ST | R | Heavy Rehab | \$ 560 | 000 | 2 | N | 0.09 | 32 | 8/27/1997 | | MILL AND OVERLAY W/FABRIC |
| 2021 | | | 15% DISCRETIONARY | | | | | \$ 1,046 | 295 | | | | | | | |
| | | | | | | | | \$ 6,968 | 593 | | | 3.84 | | | | |

Note: Column P denotes presence of bike facility type (1 paved path, 2A 2B bike lane, 3A sign-only, 3C Sharrows, 3E bike blvd, 4 cycle track); C for bus route; and N for none.

Page 15 of 25

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

| Fiscal Year | Street ID | Section ID | Street Name | From | То | Class | Treatment (from StreetSaver) | Up | odated Total Cost | District | Ρ | Mileage | Current PCI | Last M&R Date | Last M&R | Last Paved |
|----------------|-----------|------------|-------------------|--------------|------------------|-------|------------------------------------|----|----------------------|----------|-----|---------|----------------|------------------|----------|------------------------------|
| 2022 | 931073 | 50 | BROWNING ST | ADDISON ST | DWIGHT WAY | R | Heavy Rehab | \$ | 911,600 | 2 | Ν | 0.50 | 35 | 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 | 42 | 8/23/2000 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2022 | 729152 | 60 | DURANT AVE | MILVIA ST | SHATTUCK AVE | С | Reconstruct | \$ | 693,355 | 4 | Ν | 0.13 | 11 | 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 | 32 | 8/12/1997 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2022 | 728180 | 50 | ELLSWORTH ST | BANCROFT WAY | DWIGHT WAY | R | Reconstruct | \$ | 422,400 | 7 | Ν | 0.25 | 22 | 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 | 92 | 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 | 92 | 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 | 60 | 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 | 69 | 6/1/1993 | 0 - | MEDIUM AC OVERLAY (2 INCHES) |
| 2022 | 736227 | 63 | FULTON ST | PARKER ST | STUART ST | R | Heavy Mtce | \$ | 321,592 | 3 | 3E* | 0.25 | 58 | 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 | Ν | 0.13 | 49 | 4/1/2001 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2022 | 736561 | 70 | STUART ST | FULTON ST | HILLEGASS AVE | R | Heavy Rehab | \$ | 784,000 | 7 | Ν | 0.46 | 39 | 11/13/1998 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2022 | | | 15% DISCRETIONARY | | | | | \$ | 1,046,295 | | | | | | | |
| | | | | | | | | \$ | 5,895,237 | | | 3.03 | | | | |

Note: Column P denotes presence of bike facility type (1 paved path, 2A 2B bike lane, 3A sign-only, 3C Sharrows, 3E bike blvd, 4 cycle track); C for bus route; and N for none.

Revised: 05/22/2019

Page 16 of 25

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

| Fiscal Year | Street ID | Section ID | Street Name | From | То | Class | Treatment (from StreetSaver) | Updated Total Cost | District | Ρ | Mileage | Current PCI | Last M&R Date | Last M&R | Last Paved |
|----------------|-----------|------------|-------------------|-----------------|-----------------|-------|------------------------------------|-----------------------|----------|-------|---------|----------------|------------------|----------|----------------------------|
| 2023 | 729042 | 65 | BANCROFT WAY | SHATTUCK AVE | FULTON ST | С | Heavy Rehab | \$ 277,778 | 4 | 4* | 0.09 | 41 | 8/7/1997 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2023 | 729042 | 60 | BANCROFT WAY | MILVIA WAY | SHATTUCK AVE | С | Heavy Rehab | \$ 359,836 | 4 | Ν | 0.13 | 34 | 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 | 65 | 7/30/2008 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023 | 739186 | 60 | EMERSON ST | ADELINE ST | SHATTUCK AVE | R | Light Rehab | \$ 180,320 | 3 | Ν | 0.15 | 59 | 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 | 68 | 4/1/2001 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023 | 739191 | 62 | ESSEX ST | TREMONT ST | SHATTUCK AVE | R | Light Rehab | \$ 129,920 | 3 | Ν | 0.11 | 64 | 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 | 45 | 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 | 37 | 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 | 49 | 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 | N | 0.25 | 59 | 12/10/1998 | A - AC | RECONSTRUCT STRUCTURE (AC) |
| 2023 | 834371 | 60 | MC GEE AVE | DWIGHT WAY | DERBY ST | R | Light Rehab | \$ 302,400 | 3 | Ν | 0.26 | 51 | 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 | 32 | 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 | 59 | 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 | 47 | 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 | 58 | 9/13/2002 | | MILL AND OVERLAY W/FABRIC |
| 2023 | 319293 | 49 | HOPKINS ST | SACRAMENTO ST | HOPKINS CT | А | Heavy Rehab | \$ 77,755 | 5 | 3A, C | 0.04 | 38 | 9/13/2002 | | MILL AND OVERLAY W/FABRIC |
| 2023 | 319293 | 40 | HOPKINS ST | SAN PABLO AVE | STANNAGE AVE | R | Light Mtce | \$ 19,188 | 1 | Ν | 0.09 | 74 | 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 | 69 | 9/13/2002 | | MILL AND OVERLAY W/FABRIC |
| 2023 | | | 15% DISCRETIONARY | | | | | \$ 1,091,295 | | | | | | | |
| | | | | | | | | \$ 5,711,469 | | | 2.86 | | | | |

Note: Column P denotes presence of bike facility type (1 paved path, 2A 2B bike lane, 3A sign-only, 3C Sharrows, 3E bike blvd, 4 cycle track); C for bus route; and N for none.

Page 17 of 25

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

| Fiscal Year | Street ID | Section ID | Street Name | From | То | Class | Treatment (from StreetSaver) | Updated Total Cost | District | Ρ | Mileage | Current PCI | Last M&R Date | Last M&R | Last Paved |
|----------------|-----------|------------|-------------------|--------------------|---------------------|-------|------------------------------------|-----------------------|----------|-----------|---------|----------------|------------------|----------|-----------------------------|
| 2024 | 729014 | 63 | ALLSTON WAY | MILVIA ST | SHATTUCK AVE | R | Heavy Rehab | \$ 228,800 | 4 | N | 0.14 | 37 | 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 | 12 | 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 | 34 | 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 | 15 | 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 | 61 | 10/1/1992 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2024 | 636146 | 78 | DERBY ST | HILLEGASS AVE | COLLEGE AVE | R | Reconstruct | \$ 498,560 | 8 | 3E* | 0.14 | 25 | 8/8/1997 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2024 | 627155 | 85 | DWIGHT WAY | HILLSIDE AVE | DEAD END ABOVE | R | Reconstruct | \$ 406,204 | 8 | N | 0.11 | 22 | 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 | 12 | 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 | 19 | 10/1/1992 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2024 | 920275 | 40 | HEINZ AVE | 7TH ST | SAN PABLO AVE | R | Reconstruct | \$ 897,408 | 2 | 3E | 0.26 | 22 | 11/1/1992 | 0 - | MILL AND OVERLAY W/FABRIC |
| 2024 | 739285 | 70 | HILLEGASS AVE | ASHBY AVE | CITY LIMIT (WOOLSEY | R | Light Mtce | \$ 68,400 | 8 | 3E | 0.16 | 76 | 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 | 78 | 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 | 45 | 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 | 50 | 12/1/1989 | | MILL AND OVERLAY |
| 2024 | | | 15% DISCRETIONARY | | | | | \$ 1,091,295 | | | | | | | |
| | | | | | | | | \$ 6,993,964 | | | 2.74 | | | | |

Note: Column P denotes presence of bike facility type (1 paved path, 2A 2B bike lane, 3A sign-only, 3C Sharrows, 3E bike blvd, 4 cycle track); C for bus route; and N for none.

Revised: 05/22/2019

FISCAL YEAR 2020 TOTALS

| Total Est | timated Cost and Miles | \$ 6,265,814 | | 3.67 ו | 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 |
| | | Arte | erial/PRW | 1.33 | \$1,000,000 |
| | | | | 3.67 | \$6,265,814 |

6975303

FISCAL YEAR 2021 TOTALS

| Total Estimated Cost and Miles | | \$ 6,968,593 | 3.84 miles | |
|--------------------------------|---------|-----------------|------------|-------------|
| | 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

| Total Estimated Cost and Miles | | | \$ |
|--------------------------------|---------|--|----|
| | MILEAGE | | |
| ARTERIALS | 0.41 | | |
| COLLECTORS | 0.23 | | |
| RESIDENTIALS | 2.39 | | |
| | 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 | | | | |
| | | | | | |
| | | | | | |

| \$ 5,711,46 | 9 | 2.83 | miles |
|-------------|----|-------|-------------|
| Distri | ct | 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

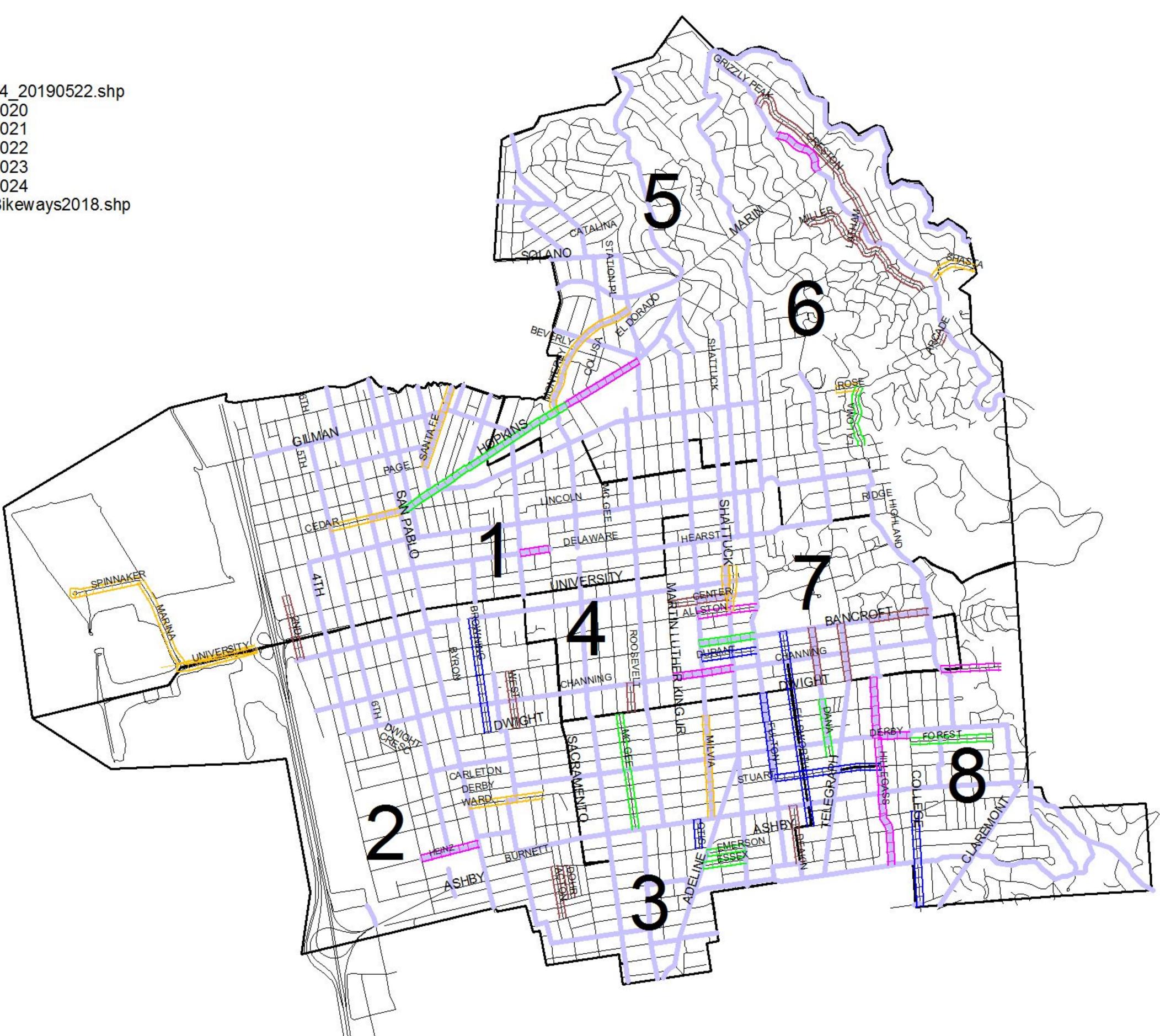
| Total Estimated Cost and Miles | | \$ 6,993 | 3,964 | 2.74 | miles | |
|--------------------------------|---------|----------|----------|-------|-------------|---------|
| | MILEAGE | D | District | Miles | Cost | |
| ARTERIALS | 0.00 | | 1 | 0.13 | \$78,175 | |
| COLLECTORS | 0.81 | | 2 | 0.26 | \$897,408 | |
| 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

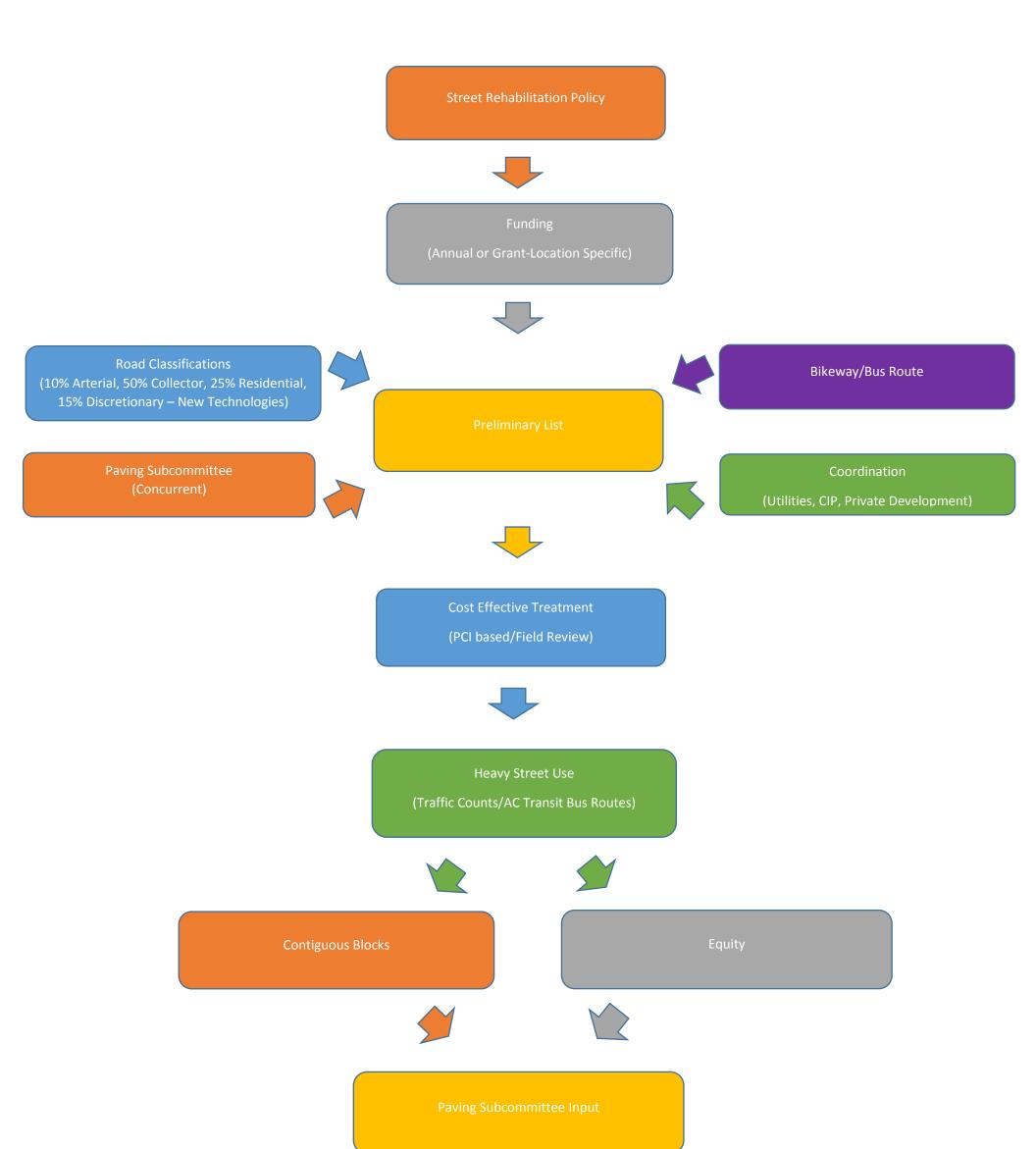
| stimated Cost a | nd Miles | | |
|-----------------|----------------------------------|----------------------------------|--|
| MILEAGE | % | % COST | % |
| 0.77 | 5% | 12% | |
| 3.94 | 24% | 13% | |
| 11.40 | 71% | 9% | |
| 16.11 | 100% | 12% | |
| | | 8% | |
| | | 8% | |
| | | 10% | |
| | | 7% |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

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





Page 25 of 255-Year Paving Plan Process Flow Diagram





Public Works Commission Transportation Commission



City Council/Adopted Plan