

# Project: 825290 - Pavement Rehabilitation

|                              |                |                       |                            |                             |  |
|------------------------------|----------------|-----------------------|----------------------------|-----------------------------|--|
| <b>Category:</b>             | Infrastructure | <b>Project Type:</b>  | Traffic and Transportation | <b>Project Manager:</b>     | Elizabeth Racca-Johnson  |
| <b>Year Identified:</b>      | 2006           | <b>Project Phase:</b> | Underway                   | <b>Project Coordinator:</b> | Tony Pineda  |
| <b>Est. Completion Year:</b> | Ongoing        | <b>Department:</b>    | C90 - Public Works         | <b>Fund - Sub-Fund:</b>     | 610-100 - Infrastructure Renov & Replace - General Fund Assets |

## Project Description/Scope/Purpose:

This project provides for ongoing roadway infrastructure preservation and rehabilitation to maintain Sunnyvale's network in very good condition. Specific yearly projects will be based upon annual roadway condition surveys and pavement management system (PMS) analysis. Projects in past fiscal years included milling, wedge-grinding and overlay, cold in place roadway recycling, crack sealing, street patching and slurry sealing. This effort was supplemented by 828030 - Annual Slurry Seal of City Streets and the Operations budget for roadway maintenance and increased slurry sealed roadways from 3 million square feet (sf) in FY 2015/16, over 4 million sf in FY 2017/18 and 5 million sf scheduled for FY 2018/19. This, as well as increasing the total footage chip sealed, will assist us in reaching and maintaining an average pavement condition index (PCI) of over 80.

This project will continue the shift from typical roadway replacement strategies to a balanced approach between pavement preservation and roadway replacement. These strategies may include: microsurfacing, slurry seals, crack sealing, patch repairs, mill, wedge-grind and overlay, cold in-place or full depth roadway recycling, and other strategies that may become applicable. This project will also provide for staff hours needed for the warranted preparatory work prior to the application of either double chip seal and slurry seal roadways. This overall strategy shift will allow the City to improve a larger roadway area and reach a yearly slurry sealing goal of 5 million sf and 2.5 million sf of double chip seal annually starting in FY 2019/20. By reducing the cycle of resurfacing this will assist us in raising and maintain the average PCI above 80.

## Project Evaluation and Analysis:

Maintaining Sunnyvale streets in very good condition is essential to maintain the economic vitality of the City and enhance the quality of life of City's residents. Historically, an average of approximately \$3 million was spent per year in FY 2012/13 through FY 2015/16 in addition to the Annual Slurry Seal project and the Operations maintenance budget. This effort sustained the PCI at 77. With the ability to charge staff hours and materials, as well as contract work to this project and working on reducing the maintenance cycle, from the current 12-15 years to an 8-10 years will assist us in raising the average PCI to 80+. The alternative is to not increase funding and delay needed preservation, repairs and replacement. If delayed, lower cost preservation effort and minor street rehabilitation measures will become major street replacement projects at much higher cost. This will result in dropping the PCI by 1 to 2 points per year.

## Fiscal Impact:

This project is funded by the SB83 VRF Road Improvement Program, Measure B, Gas Tax, Road Maintenance and Rehabilitation (SB1), and the General Fund. The project does not affect the operating budget.

## Funding Sources:

Gas Tax Street Improvement Fund, Road Maintenance and Rehabilitation Account (SB1) Fund, 2016 Measure B - Santa Clara VTA Fund, VRF Local Road Improvement Program Fund, and General Fund

## Plans and Goals:

CC - Community Character - CC-2: Attractive Street Environment

## Project Financial Summary

|                      | Project Costs | Revenues | Transfers In | Operating Costs |
|----------------------|---------------|----------|--------------|-----------------|
| Prior Actual         | 19,709,426    | 5,500    | 19,696,176   | -               |
| 2019 - 20            | 11,299,176    | ( 5,500) | 11,299,176   | -               |
| 2020 - 21            | 4,568,288     | -        | 5,361,115    | -               |
| 2021 - 22            | 4,045,912     | -        | 4,045,912    | -               |
| 2022 - 23            | 5,553,202     | -        | 5,553,202    | -               |
| 2023 - 24            | 4,331,462     | -        | 4,331,462    | -               |
| 2024 - 25            | 5,498,385     | -        | 5,498,385    | -               |
| 2025 - 26            | 4,510,718     | -        | 4,510,718    | -               |
| 2026 - 27            | 6,578,549     | -        | 6,578,549    | -               |
| 2027 - 28            | 6,706,959     | -        | 6,706,959    | -               |
| 2028 - 29            | 7,603,602     | -        | 7,603,602    | -               |
| 2029 - 30            | 6,997,803     | -        | 6,997,803    | -               |
| 2030 - 31            | 7,929,253     | -        | 7,929,253    | -               |
| 2031 - 32            | 7,308,091     | -        | 7,308,091    | -               |
| 2032 - 33            | 7,945,604     | -        | 7,945,604    | -               |
| 2033 - 34            | 7,639,075     | -        | 7,639,075    | -               |
| 2034 - 35            | 7,837,982     | -        | 7,837,982    | -               |
| 2035 - 36            | 9,626,899     | -        | 9,626,899    | -               |
| 2036 - 37            | 8,177,301     | -        | 8,177,301    | -               |
| 2037 - 38            | 8,234,406     | -        | 8,234,406    | -               |
| 2038 - 39            | 8,481,439     | -        | 8,481,439    | -               |
| 2039 - 40            | 8,481,439     | -        | 6,938,743    | -               |
| <b>20 Year Total</b> | 138,056,369   | -        | 137,306,500  | -               |
| <b>Grand Total</b>   | 169,064,971   | -        | 168,301,851  | -               |