File #: 22-693, **Version:** 1

Motion to accept the construction improvements of the 2022 West of 101 Pavement Rehabilitation Projects *(Angel Torres, Senior Civil Engineer).*

RECOMMENDATION

It is recommended that the City Council, by motion, accept the construction improvements of the 2022 West Pavement Rehabilitation Project (No. st2204, Bid No. 2664) in accordance with plans and specifications (Total construction cost $9,820,023.31); and the 2022 East Pavement Rehabilitation Project (No. st2204, Bid No. 2665) in accordance with plans and specifications (Total construction cost $6,065,729.71)

BACKGROUND/DISCUSSION

On February 23, 2022, the City Council of South San Francisco awarded the 2022 West Pavement Rehabilitation Project (Bid No. 2664) to MCK Services, Inc. of Martinez, California.

On May 11, 2022, the City Council of South San Francisco awarded the 2022 East Pavement Rehabilitation Project (Bid No. 2665) to Interstate Grading & Paving, Inc. of South San Francisco, California.

With over 140 centerline miles of roadway, the City of South San Francisco's (SSF) pavement network represents a highly visible and valuable asset to the community and local businesses.

The residents of the City of South San Francisco identified the condition of the roadways as a priority concern through a public outreach process to support the Measure W sales tax the City approved in 2015. As a result, the City secured $24 million in bond funding for the SSF Pavement Management Program (PMP) in 2021 to catch up on deferred street maintenance.

The City hired Nichols Consulting Engineers (NCE) of Richmond, California for the design of the 2022 West of 101 Pavement Rehabilitation Project.

By performing most of the maintenance in one large-scale project, as opposed to smaller annual projects, the City was able to maximize economies of scale; significantly reduce design, construction mobilization, and future street maintenance costs. This program brought meaningful and long-lasting improvements to the community, extended ADA accessibility on local streets, and enhanced street aesthetics and multimodal transportation functions. The project provided immediate increase to the City's network pavement condition index (PCI) and a positive message sent to the resident's concerns of roadway condition. The rehabilitation work plan addressed approximately 21 centerline miles of streets (18% of entire network). The overall network PCI improved from 76 to 81 (good to excellent condition) upon completion of construction in 2022.

By completing the rehabilitation on all deferred street candidates west of Highway 101 the City reduced projected annual maintenance costs from $4.5 Million dollars to $2.5 Million dollars in construction costs. It was estimated that the City would save $15.5 Million dollars in rehabilitation costs over the next 15 years. The annual savings are combined with the upfront savings from the project's economies of scale.

Aside from the practical aspects of the project the City and NCE collaborated to incorporate sustainable design solutions to the various work elements. The use of recycling technologies, Cold-in-Place recycling (CIR), was

considered to reuse the City's existing pavement structure materials, thus minimizing truck traffic to and from the job site, disruption to the community, and stretch the paving dollars. Although rubberized paving has a higher upfront cost compared to conventional methods this design maximized the use of rubberized materials to extend pavement life and aid in diverting tires from landfills. Finally, the Project included safety improvements to the City's bicycle and pedestrian network. These goals included improving bicyclist comfortability, interconnectivity of the bike network, and pedestrian ADA accessibility for multimodal street function.

The Engineering Division inspected the work on both separate projects and found the projects to be complete in accordance with the contract documents as of September 27, 2022, for the West project and as of December 22, 2022, for the East project. Project vicinity map and post construction photos are included as Attachments 1 and 2, respectively, of this staff report.

FISCAL IMPACT

These two projects (CIP No. st2204, Bid No. 2664 and Bid No. 2665) are included in the City of South San Francisco's fiscal year 2022-2023 Capital Improvements Program.

The total final construction costs incurred for the 2022 West Pavement Rehabilitation project (Bid No. 2664) is summarized as follows:

	Original Budget	**Final Costs**
Construction Contract (West)	$ 9,479,132.30	$ 9,479,132.30
Construction Contingency (actual 3.6%)	$ 1,000,000.00	$ 340,891.01
Total Construction Budget/Final Costs	$ 10,479,132.30	$ 9,820,023.31

The total final construction costs incurred for the 2022 East Pavement Rehabilitation project (Bid No. 2665) is summarized as follows:

	Original Budget	**Final Costs**
Construction Contract (East)	$ 6,444,248.50	$ 6,065,729.71
Construction Contingency (actual 0%)	$ 900,000.00	$ 0.00
Total Construction Budget/Final Costs	$ 7,344,248.50	$ 6,065,729.71

RELATIONSHIP TO STRATEGIC PLAN

Approval of this action will contribute to the City's Strategic Plan Priority Area 2, Quality of Life Initiative 2.2 by rehabilitating existing streets and curb ramps and helping maintain existing City infrastructure.

CONCLUSION

Staff recommends acceptance of the projects as complete. Upon acceptance, a Notice of Completion will be filed with the County of San Mateo Recorder's office. At the end of the thirty-day lien period, the retention funds will be released to the contractor after the City receives their one-year warranty bond.

Attachments:

1. Vicinity Map
2. Post Construction Photos
3. Presentation