



Memorandum

TO: HONORABLE MAYOR AND
CITY COUNCIL

FROM: Jim Ortbal

SUBJECT: 2018 PAVEMENT MAINTENANCE PROGRAM **DATE:** January 22, 2018

Approved

Date

1/23/18

INFORMATION

This memorandum provides the City Council with information on planned locations and schedules for pavement maintenance work on City streets during calendar year 2018.

BACKGROUND

The City Council appropriated over \$70 million for the pavement maintenance program in 2018 from a variety of funding sources. New funding sources include \$7.2 million from the Road Repair and Accountability Act (SB1) and \$23.8 million from VTA 2016 Measure B. A significant increase in revenues collected through the City's Transportation Construction Taxes also resulted in the allocation of \$25.3 million to the program.

With this level of funding, staff is currently preparing an extensive program for 2018, including a total of five projects on the Major Street Network and possibly, for the first time since 2012, additional projects on the Local and Neighborhood Street Network. Implementation of projects on the local and neighborhood streets, however, is fully counting on VTA 2016 Measure B funds and may be delayed or stopped due to a lawsuit challenging the validity of the measure.

Additionally, while this funding is significant and allows for the full prescribed annual maintenance on the City's major streets and anticipated partial maintenance on the local and neighborhood streets to occur in 2018, it remains short of the amount needed annually over a ten-year period to improve and maintain the entire network of the City's 2,434 miles of City streets in overall "Good" condition (70 PCI). Based on the most recent street condition assessments and funding needs analysis that will be first reported to the Transportation and Environment Committee in February as part of the Annual Deferred Maintenance and Infrastructure Maintenance Backlog Report, the City needs approximately \$93 million each year to properly maintain both the Major Street Network and the Local and Neighborhood Street Network in "good" condition. Current projected annual ongoing funding for pavement maintenance, which excludes one-time grants and revenues, is approximately \$50 million.

As mentioned above, the Department of Transportation (DOT) will provide an update on the pavement conditions and funding needs to the Transportation and Environment Committee in February as part of the Annual Deferred Maintenance and Infrastructure Maintenance Backlog Report and in March as part of annual Pavement Maintenance Conditions, Funding Needs and Strategies Report. The March report will also include the latest information related to the VTA 2016 Measure B lawsuit, efforts to possibly repeal SB1, and future funding projections and street conditions.

ANALYSIS

Major Streets Projects

The Major Street Network consists of 944 miles of the City's most heavily traveled streets, which collectively carry over 85% of the traffic in the City. Five separate pavement maintenance projects are being prepared and planned for implementation in 2018. These five projects will preventively maintain or resurface approximately 100 miles of streets and include all necessary curb ramp upgrades and installations to comply with ADA requirements.

To select the major streets identified for treatment in 2018, DOT utilized information provided by the City's Pavement Management System (PMS) to generate a candidate list of streets for preventive maintenance (sealing) and rehabilitation (resurfacing). The candidate list of streets and the mix of treatments (sealing versus resurfacing) is a function of the complex analysis that the PMS performs to improve and maintain the pavement network in the most cost-effective manner with available funding. The candidate list was then thoroughly analyzed by staff to create the final list of streets by applying the following criteria:

- Funding availability and funding use restrictions
- Streets on the Major Streets Network
- Streets not affected by current or future street related projects
- Maintenance history and prescribed treatment schedules
- Streets associated with planned safety, bikeway or other "complete streets" projects
- Community and City Council office feedback regarding roadway conditions and priority street segments
- Relative location of street segments to create multiple, continuous segments, consistency within neighborhoods, and project efficiency
- Multi-year geographic equity across the City and street network

The following is a summary of the Major Streets projects for 2018:

Remove and Replace Asphalt Concrete Projects (2)

The purpose of these two projects is to prepare streets for preventive maintenance sealing in 2018. DOT will be concurrently implementing two remove and replace projects to ensure that there is sufficient time to complete the sealing process on all identified streets during the 2018 construction season. One project will be performed in the northern half of the City and another in the southern half. Each project will repair failed areas of pavement, upgrade and install curb ramps as needed, and generally prepare the streets for the subsequent preventive maintenance sealing treatment (see Street Sealing Project below). These two projects were advertised for bids in December and January with Council award currently planned for March. Construction is planned to start in April.

Street Sealing Project

This project will perform a street sealing treatment (microsurfacing) on approximately 71 miles of major streets that are being prepared for sealing by the remove and replace projects described above. Microsurfacing is a treatment that applies a thin layer (3/8") of fine aggregate and asphalt emulsion to the surface of a street in fair to good condition to extend the useful life of the street and reduce future maintenance costs. The project will also install all final roadway markings and striping. The project is planned for advertisement in February, Council award in May, and construction starting in June.

Street Resurfacing Projects (2)

DOT will be performing two resurfacing projects to ensure project completion in 2018 and remain in compliance with funding and expenditure reimbursement requirements. The first project will combine SB1 and City funds to resurface approximately 21.5 miles of major streets. The second project will combine available discretionary funding from the State and the City to resurface approximately 7.5 miles of major streets. Resurfacing is a treatment in which a street in poor condition is restored to good condition by removing/replacing or reconditioning damaged pavement and applying a new 2" to 4" layer of asphalt concrete. DOT will continue to utilize the process of Cold-in-Place Recycling (CIR) as a cost effective and environmentally friendly method for pavement rehabilitation wherever appropriate. The use of rubberized hot mix asphalt as the final wearing surface will also continue. These projects will also upgrade or install new ADA ramps as needed, and install all new roadway markings and striping. The first 21.5-mile project is planned for advertisement for bids in February with Council award in May. Construction is planned to begin in June. A final schedule for the second 7.5-mile project has not yet been established as DOT staff is waiting for final review and approval by the State to proceed. The tentative schedule is for construction to be completed in late summer.

Additionally, there are 7.3 miles of streets remaining from the 2017 Arterial Resurfacing Pavement Project which will be completed early in the 2018 construction season. All paving

work for this project was put on winter suspension as of December 7, 2017 due to a sustained drop in temperatures. Non-paving work, such as the required retrofit and installation of ADA curb ramps and other preparation work is continuing during the winter suspension period. All paving, striping and remaining construction activities will continue in spring and into early summer.

Attached is the list of specific major street segments planned for preventive maintenance sealing or resurfacing in 2018. Please note that the 2018 list could be slightly altered as unforeseen circumstances arise or new information regarding other development activity and street-related projects becomes available.

Local and Neighborhood Streets Projects

For the first time since 2012, DOT is preparing a series of sealing and resurfacing projects on the City's Local and Neighborhood Street Network in 2018. This is a significant development for the City and many of our residents. However, the identified source of funding for this work – VTA 2016 Measure B – is being legally challenged and funding is on hold pending a resolution. A lawsuit was filed and dismissed by the Santa Clara County Superior Court, but the decision is now being appealed to the Court of Appeals. The latest information provided by VTA has indicated that a resolution to the lawsuit is expected to occur in 6 to 12 months.

Unfortunately, the expected timeframe for a decision by the Court of Appeals puts the delivery of the local and neighborhood streets projects in 2018 in serious jeopardy. DOT is continuing to prepare for implementation of the projects in 2018 should some or all the projected funding become available sooner than expected, but the details regarding project scope and schedule remain under development. It is possible that no local and neighborhood street maintenance work will occur in 2018. DOT will provide information regarding status and details of the local and neighborhood streets projects as pertinent information regarding Measure B becomes available.

Safety, Complete Streets & Bikeway Improvements

DOT will also continue to take advantage of the annual pavement maintenance program to install various "complete street" elements that result in safer streets with improved mobility options. Newly paved streets provide a cost-effective opportunity to reconfigure vehicle lanes, enhance existing or install new bike lanes, and upgrade vehicle and bike detection systems, where appropriate. Coordination among DOT's programs and projects, as well as coordination with other departments, is a key component in developing and delivering the annual pavement maintenance program.

Regarding bike lanes, DOT looks to retain, enhance, or add bike lanes in a way that maximizes safety and the orderly flow of traffic for all roadway users while minimizing the impact to vehicle capacity and on-street parking. For 2018, streets with existing bike lanes will be evaluated for the installation of enhanced bike lanes. Work is also underway to identify and

prepare designs for new bike lane installations where they do not exist. Some of these locations may impact lane configurations and on-street parking. In these cases, DOT will ensure that proper analysis and outreach to the council offices and the community occurs prior to approving and implementing any final complete street designs.

Of particular note and interest is a multi-year plan to design and build a high-quality, connected network of "Better Bikeways" for Central San Jose. The Better Bikeways project will leverage street maintenance work completed in 2017, planned for the 2018 program, and under consideration for the 2019 program to greatly enhance the biking experience in and around Downtown for users of all ages and abilities. The Knight Foundation has funded a partnership between NACTO and DOT to design the Better Bikeways network over the next two years. Conceptual designs are being developed now with key stakeholders and City departments that include various measures to physically protect or separate bike lanes from vehicle traffic, calm or divert vehicle traffic, and improve wayfinding and access to transit for bicyclists. Streets identified in the 2018 Pavement Maintenance Program as part of the Better Bikeways plan include Second St., Third St., Fourth St., 22nd St./Monferino Dr., San Fernando St., San Salvador St., St. John St., and Taylor St./Mabury Rd.

/s/

JIM ORTBAL
Director of Transportation

For questions please contact Rick Scott, Division Manager, at (408) 794-1925.

Attachment

ATTACHMENT

2018 PLANNED LIST OF STREETS FOR PAVING

Remaining 2017 Street Segments to Complete After Winter Suspension

CD	STREET NAME	BEGIN LOCATION	END LOCATION
4	COMMERCIAL ST	13TH ST	BERRYESSA RD
3, 4	MABURY RD	TAYLOR ST	BERRYESSA RD
3	OLD BAYSHORE HWY	ZANKER RD	N 13TH ST
4	ROGERS AV	QUEENS LN	E BROKAW RD
9	ROSS AV	LEIGH AV	BRANHAM LN
7.3 MILES			

ATTACHMENT

2018 Street Segments Planned for Sealing

CD	STREET NAME	BEGIN LOCATION	END LOCATION
3	22ND ST	E JACKSON ST	E EMPIRE ST
3	3RD ST	JULIAN ST W	REED ST
3	4TH ST	HEDDING ST	ST JAMES ST
3	4TH ST	SANTA CLARA ST	REED ST
3	ALMADEN AV	VIOLA AV	BALBACH ST
6,7	ALMADEN RD	ALMADEN EX	ALMADEN AV
2,10	BLOSSOM HILL RD	BLOSSOM AV	HWY 101 BRIDGE
6	CAHILL ST	SANTA CLARA ST W	SAN FERNANDO ST W
2	CALERO AV	SNELL AV	LEAN AV
5	CLAYTON RD	STORY RD	MT PLEASANT RD
4	CROPLEY AV	N CAPITOL AV	OLD PIEDMONT RD
6,9	DRY CREEK RD	BASCOM AV	HICKS AV
6	FOREST AV	WINCHESTER BL N	CLAMAR WY
4	MABURY RD	KING RD	TAYLOR ST
6	MALONE AV	LINCOLN AV	ALMADEN RD
10	MCKEAN RD	4551' N/O BAILEY AV	BAILEY AVE
10	MCKEAN RD SB	CITY LIMIT	4551' N/O BAILEY AV
3,5	MCKEE RD	KING RD	CAPITOL AV
3	MONFERINO DR	E JACKSON ST	E TAYLOR ST
6	MONROE ST	NEWHALL ST	TISCH WY
5,8	MT PLEASANT RD	CLAYTON RD	KOHLER AV
8	MURILLO AV	ABORN RD	RUBY AV
3	NOTRE DAME AV	SANTA CLARA ST	ST JAMES ST
4,5	PENITENCIA CREEK RD	DOREL DR	CAPITOL AV N
4	PLUMERIA DR	ORCHARD PKWY	1ST ST
1	RAINBOW DR	JOHNSON AV	DE ANZA BLVD S
4	RINGWOOD AV	BIRCHMEADOW LN	MURPHY AV

ATTACHMENT

8	RUBY AV	KOHLER AV	ABORN RD
3,5	SAN ANTONIO ST	28TH ST	33RD ST
3	SAN CARLOS ST	2ND ST	4TH ST
3,6	SAN FERNANDO ST	CAHILL ST	17TH ST S
3	SAN SALVADOR ST	10TH ST	16TH ST
1	SARATOGA AV	WILLIAMS RD	STEVENS CREEK BL
4	SIERRA RD	CAPTIOL AV	PIEDMONT RD
4	SIERRA RD	FLICKINGER AV	CHESSINGTON DR
3	ST JOHN ST	MONTGOMERY ST	N ALMADEN BLVD
3	ST JOHN ST	MARKET ST	13TH ST
5,7	STORY RD	MCLAUGHLIN AV	KING RD
7	SYLVAN DALE AV	SENER RD	KAUAI DR
3	TAYLOR ST	MABURY RD	23RD ST
4	TRADE ZONE BL	N CAPITOL AV	MONTAGUE EX
10	VIA VALIENTE	ALMADEN EX	CAMDEN AV
9	WINFIELD BL	BLOSSOM HILL RD	CHYNOWETH AV
71 MILES			

ATTACHMENT

2018 Street Segments Planned for Resurfacing

CD	STREET NAME	BEGIN LOCATION	END LOCATION
3	16TH ST	SAN CARLOS ST	MARGARET ST
3	17TH ST	SANTA CLARA ST	SAN CARLOS ST
3,6	BIRD AV	SAN CARLOS ST	WILLOW ST
1	BLANEY AV	PROSPECT RD	BOLLINGER RD
9,10	BLOSSOM HILL RD	MERIDIAN AV	ALMADEN EX
6	CANOAS GARDEN AV	ALMADEN RD	ALMADEN EX
10	MCKEAN RD	ALMADEN RD	MCKEAN CT
10	MCKEAN RD	HARRY RD	CITY LIMIT
10	MCKEAN RD	BAILEY AVE	S CITY LIMIT
5	MCKEE RD	EASTSIDE DR	CITY LIMIT (RIDGE VISTA AV)
5	MCKEE RD	CITY LIMIT (GRIDLEY ST)	CITY LIMIT (VALLEY VIEW AV)
8	NORWOOD AV	WHITE RD	GURDWARA AV
1	PAYNE AV	SARATOGA AV	CITY LIMIT
4	PLUMERIA DR	1ST ST	MONTAGUE EX
4	RINGWOOD AV	TRADE ZONE BL	BIRCHMEADOW LN
9	SAMARITAN DR	BASCOM AV	UNION AV
6	SAN CARLOS ST	LEIGH AV	LINCOLN AV
3	SAN SALVADOR ST	MARKET ST	10TH ST
2	SANTA TERESA BL	COTTLE RD	DUNN AV
3	VIOLA ST	S MARKET ST	ALMADEN AV
6	WILLOW ST	LINCOLN AV	1360'SMERIDIAN AV
29 MILES			