RESOLUTION NO. 2018-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MARINA RECEIVING A REPORT ON THE PUBLIC WORKS COMMISSION'S RECOMMENDATION FOR REINVESTMENT IN THE CITY'S PAVEMENT INFRASTRUCTURE.

WHEREAS, street pavement maintenance needs have gone largely unfunded over the past several decades, and;

WHEREAS, the street pavement needs have been quantified and identified, and;

WHEREAS, the current pavement condition index for the overall street pavement network is 56 which at-risk and rapidly approaching a poor condition, and;

WHEREAS, at the February 15th, 2018 meeting, the Public Works Commission passed resolution 2018-06 (Exhibit A) recommending that the City Council consider means of making a maximum annual investment of $2.5M over 10 years to attain a PCI of 70 on city local roads.

NOW, THEREFORE, BE IT RESOLVED, that the City Council of the City of Marina does hereby receive a report on the Public Works Commission's recommendation for reinvestment in the City's pavement infrastructure.

PASSED AND ADOPTED by the City Council of the City of Marina at a regular meeting duly held on the 6th day of March 2018, by the following vote:

AYES, COUNCIL MEMBERS: Amadeo, Morton, Brown, Delgado
NOES, COUNCIL MEMBERS: None
ABSENT, COUNCIL MEMBERS: O'Connell
ABSTAIN, COUNCIL MEMBERS: None

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Bruce C. Delgado, Mayor

ATTEST:

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Anita Sharp, Deputy City Clerk

EXHIBIT A

RESOLUTION NO. 2018-06

A RESOLUTION OF THE PUBLIC WORKS COMMISSION OF THE CITY OF MARINA RECEIVING INFORMATIONAL PRESENTATION ON THE CITY'S PAVEMENT INFRASTRUCTURE NEEDS AND PROVIDE DIRECTION

WHEREAS, street pavement maintenance needs have gone largely unfunded over the past several decades, and;

WHEREAS, the street pavement needs have been quantified and identified, and;

WHEREAS, the current pavement condition index for the overall street pavement network is 56 which at-risk and rapidly approaching a poor condition, and;

NOW THEREFORE, BE IT RESOLVED that the Public Works Commission of the City of Marina does hereby recommend to City Council to consider making a maximum annual investment of $2.5M over 10 years to attain a PCI of 70 on city local roads.

PASSED AND ADOPTED, at the regular meeting of Public Works Commission of the City of Marina, duly held on the 15th day of February 2018 by the following vote:

AYES, COMMISSION MEMBERS: FLEWELLEN, TANABE, GRAY, HUNT, OWEN
NOES, COMMISSION MEMBERS: NONE
ABSENT, COMMISSION MEMBERS: NONE
ABSTAIN, COMMISSION MEMBERS: NONE

Demetrius Flewellen

Demetrius Flewellen, Chair

ATTEST:

Brian McMinn, P.E., P.L.S.
Director
Public Works Department
City of Marina

February 28, 2018 Item No: **8j(2)**

Honorable Mayor and Members
of the Marina City Council

City Council Meeting
of March 6, 2018

CITY COUNCIL CONSIDER ADOPTING RESOLUTION NO. 2018-, RECEIVING A REPORT ON THE PUBLIC WORKS COMMISSION'S RECOMMENDATION FOR REINVESTMENT IN THE CITY'S PAVEMENT INFRASTRUCTURE.

REQUEST:

It is requested that City Council consider:

1. Adopting Resolution No. 2018-, receiving a report on the Public Works Commission's recommendation for reinvestment in the City's pavement infrastructure.

BACKGROUND:

The City's infrastructure supports the day to day activity of Marina's residents and businesses. Continued financial health and future growth are dependent upon the city's streets. Maintaining pavement infrastructure requires continuous investment to offset the daily wear and tear of continuous use and environmental conditions.

The level of investment in the pavement infrastructure supporting the City of Marina has fallen short of needs and will require a greater reinvestment that will continue to increase if maintenance and rehabilitation are deferred.

The Public Works Commission received an update on the City's pavement needs on May 18, 2017, January 18, 2018, and February 15, 2018. At the February 15^{th}, 2018 meeting, the Public Works Commission passed resolution 2018-06 (Exhibit A) recommending that the City Council consider means of making a maximum annual investment of $2.5M over 10 years to attain a PCI of 70 on city local roads.

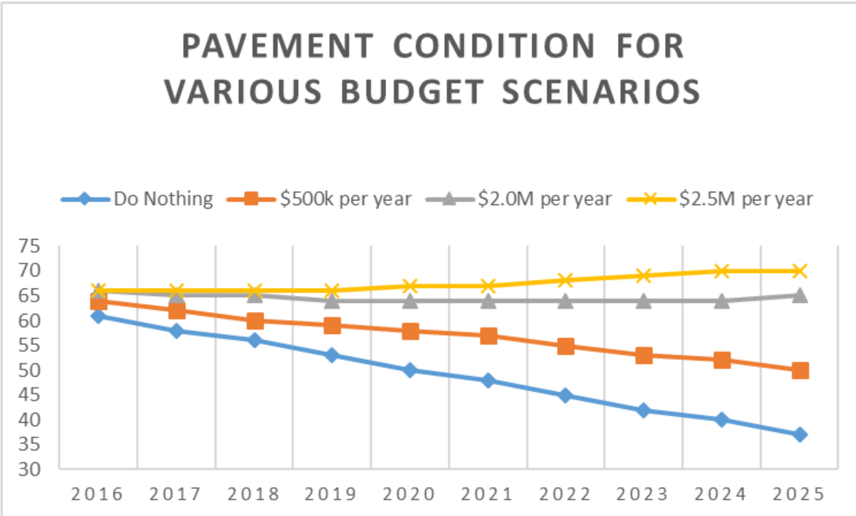
ANALYSIS:

Pavement Maintenance: $2.5 million per year

With an estimated replacement value estimated at $109.4 million, the City's 156 lane mile street network is the single largest community investment. The overall pavement condition index (PCI) for the entire street network is currently 56 which is considered "at risk" on a scale from 100 to 0. A newly constructed road would have a PCI of 100 and a failed road would have a PCI of 10 or less.

The pavement maintenance backlog now stands at $13 million. The rate of pavement deterioration increases over time along with the associated cost to rehabilitate or maintain the pavement. This is reflected by the estimated cost to maintain the street network at a PCI of 70 increasing from $1.2 million per year in 2013 to $2.5 million per year in 2016. The pavement deterioration trend will continue without a sufficient program of regular re-investment.

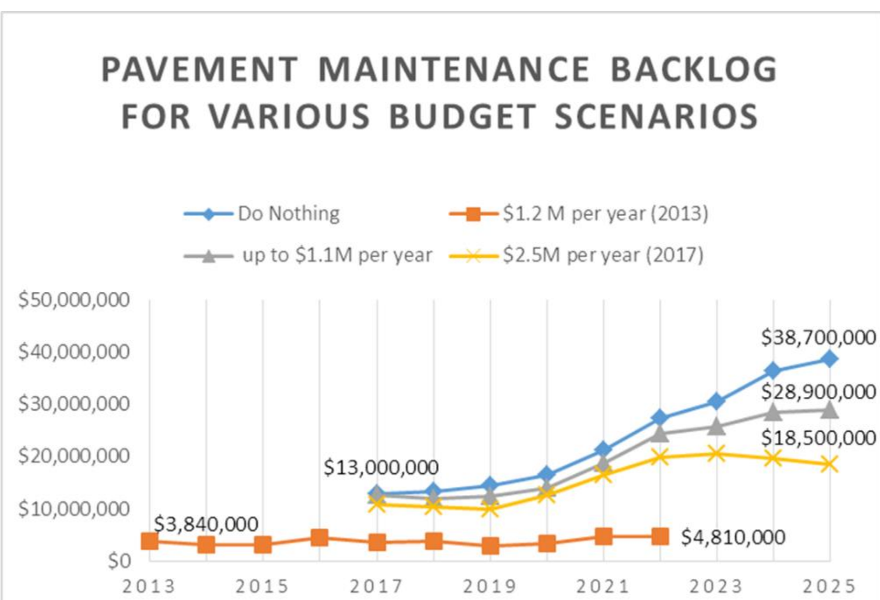
The updated pavement management software was used to determine the effectiveness of ten-year maintenance programs at various funding levels. The table below shows the results of the analysis.



Continuing to do nothing will allow the street network to deteriorate to an overall condition of 37 which is "poor." At an investment of $500,000 per year the overall condition of pavement will continue to deteriorate at a slightly lower rate than the do-nothing scenario.

At an annual investment of $2 million per year, the overall pavement condition stabilizes around 65. It is not until annual investment reaches $2.5 million that the overall condition begins to increase. At the end of ten years at the highest level of investment the overall pavement condition index would increase to 70.

Failing to re-invest at a sufficient rate will also increase the backlog of maintenance. Even with the investment of $1.1 million per year of Measure X and Senate Bill 1 funding, the backlog will grow from $13 million to $28.9 million.



CONCLUSION:
This report is submitted to City Council for information.

Respectfully submitted,

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Brian McMinn, P.E., P.L.S.
Public Works Director/City Engineer
City of Marina

REVIEWED/CONCUR:

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Layne P. Long
City Manager
City of Marina