



LEGISLATIVE MEMORANDUM

TO: Honorable Mayor and Members of the City Council

FROM: Suzanne Sherman, City Manager

THRU: Valentino Perez, Public Works Director

DATE: March 21, 2024

RE: Consideration of pursuing funding for photocatalytic rejuvenation through the East Center Florida Regional Planning Council's Environmental Protection Agency Climate Pollution Reduction Grant.

SUMMARY:

Staff is requesting authorization to pursue the Environmental Protection Agency Climate Pollution Reduction Grant (EPA CPRG) through the East Central Florida Regional Planning Council to help fund our annual pavement maintenance program. In July 2020, City Council approved funding an annual road maintenance program to help preserve and repair newly paved streets completed with the Road Bond Paving Program. As part of the maintenance preservation, the Public Works Department has been applying streets with a treatment known as "Rejuvenation" which uses a maltene base emulsion on the asphalt surface of newly paved streets of 2-3 years to help preserve and extend the pavement life. The city has just completed the third year of rejuvenating the Road Bond Paving Streets.

Recent changes in the pavement industry to be more environmentally sensitive has created an advancement in developing a new rejuvenation treatment to help reduce carbon emission from the pavement and to help improve air quality. The new photocatalytic pavement preservation is a rejuvenation treatment which uses the addition of Titanium into the pavement rejuvenation process to help preserve the asphalt and to reduce carbon emissions with a reduction in greenhouse gases. The new titanium rejuvenation has proven to reduce carbon dioxide by 60% from exhaust emissions.

The CPRG grant will allow the City of Palm Bay an opportunity to receive approximately \$2 million in EPA funding for implementing the titanium rejuvenation to reduce carbon emissions. The CPRG grant requires no local match. The Public Works Department has already submitted a letter of interest to the EPA in advance of the application due date on April 1, 2024. If awarded the CPRG grant, the Photocatalytic Titanium Rejuvenation will replace the existing maltene base rejuvenation

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for FY 2025 Road Maintenance program. This will further the City's ability to invest funding into road maintenance to enhance road preservation strategies in future years.

REQUESTING DEPARTMENTS:

Public Works

FISCAL IMPACT:

None. There is no match requirement to this grant.

STAFF RECOMMENDATION:

Request for Consideration for Staff to seek Environmental Protection Agency Climate Pollution Reduction Grant funds for Photocatalytic Rejuvenation.

ATTACHMENTS: